

Appendix B

Demand Forecast

Draft 2020 WA IRP

Appendix B - Introduction

The purpose of this document is to show the demand for Cascade's system at a very detailed level. Pages 3-144 provide a low, expected, and high forecast for annual demand, peak day demand, usage by customer class, and customer count growth by class. There are also graphs that show the therm and customer growth. These are done at the citygate, pipeline zone, district, state, and system level. Pages 145-234 further break down the demand for the expected (145-174) , high (175-204), and low (205-234) forecast at the citygate, pipeline zone, district, state, and system level.

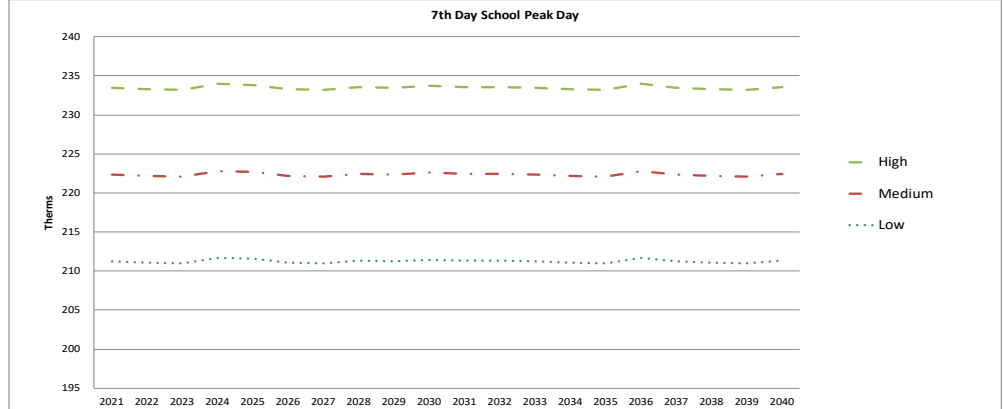
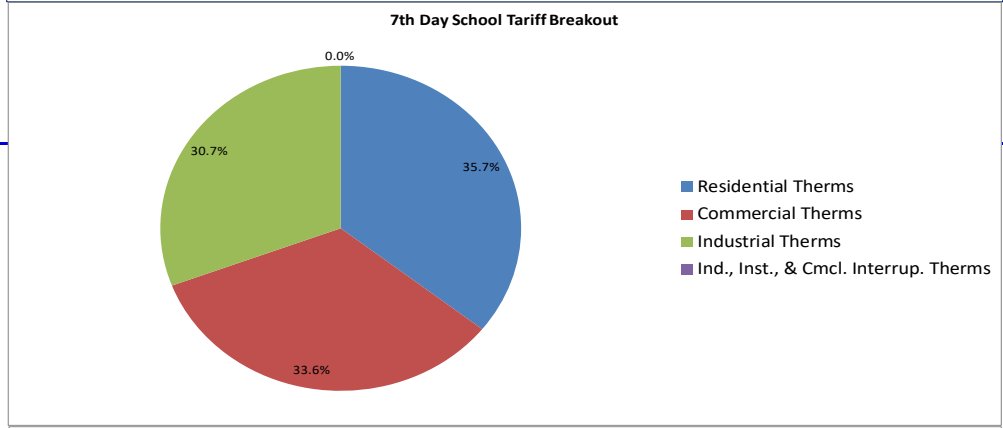
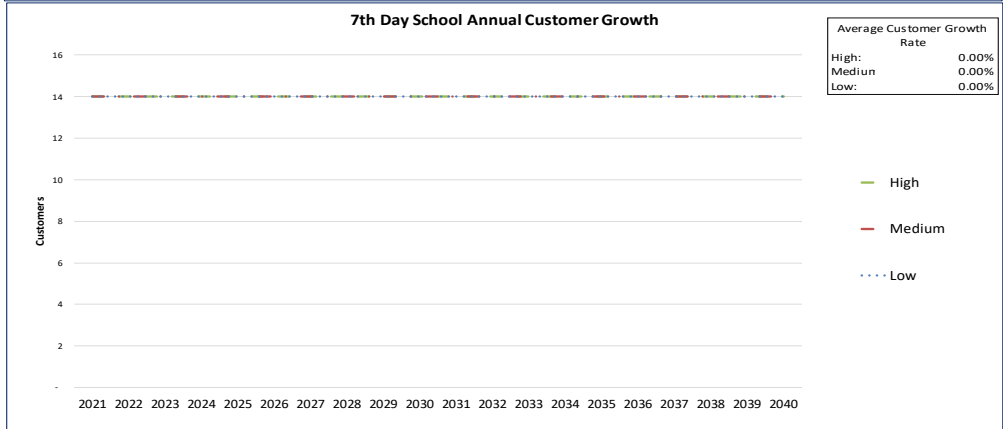
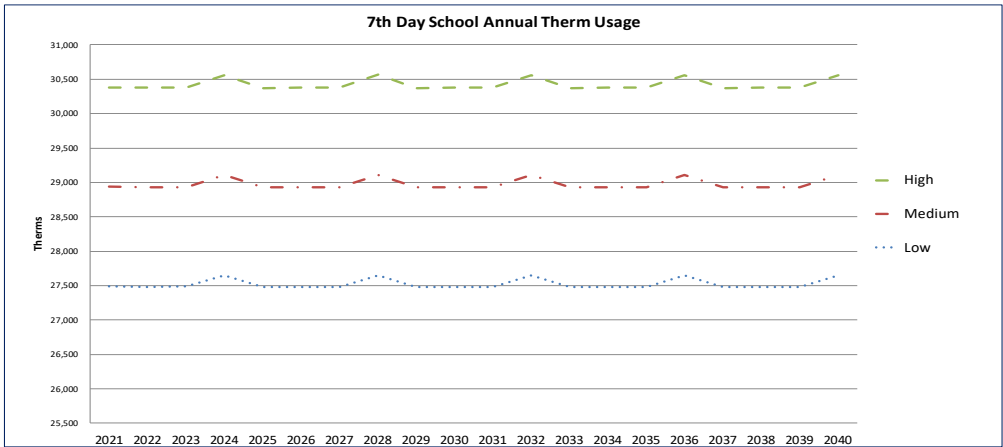
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

7th Day School																			
Annual Requirements (Therms)												Annual Change							
Low			Medium			High			Low			Medium			High				
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total		
2021	25,418	2,071	27,489	26,756	2,180	28,936	28,084	2,289	30,383	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	25,370	2,112	27,482	26,705	2,223	28,929	28,041	2,335	30,375	-0.19%	1.98%	-0.03%	-0.19%	1.98%	-0.03%	-0.19%	1.98%		
2023	25,326	2,159	27,485	26,659	2,272	28,931	27,992	2,386	30,378	-0.17%	2.19%	0.01%	-0.17%	2.19%	0.01%	-0.17%	2.19%		
2024	25,334	2,117	27,451	26,878	2,229	29,107	28,222	2,340	30,562	0.82%	-1.91%	0.61%	0.82%	-1.91%	0.61%	-0.82%	-1.91%		
2025	25,347	2,132	27,479	26,681	2,245	28,926	28,015	2,357	30,372	-0.73%	0.71%	-0.62%	-0.73%	0.71%	-0.62%	-0.73%	0.71%		
2026	25,398	2,084	27,482	26,735	2,193	28,928	28,071	2,303	30,374	0.20%	-2.28%	0.01%	0.20%	-2.28%	0.01%	0.20%	-2.28%		
2027	25,388	2,096	27,484	26,724	2,207	28,931	28,060	2,317	30,377	-0.04%	0.61%	0.01%	-0.04%	0.61%	0.01%	-0.04%	0.61%		
2028	25,535	2,117	27,652	26,879	2,229	29,107	28,222	2,340	30,563	0.58%	1.00%	0.61%	0.58%	1.00%	0.61%	0.58%	1.00%		
2029	25,349	2,131	27,480	26,683	2,243	28,926	28,017	2,355	30,372	-0.73%	0.63%	-0.62%	-0.73%	0.63%	-0.62%	-0.73%	0.63%		
2030	25,337	2,145	27,482	26,671	2,257	28,928	28,004	2,370	30,374	-0.05%	0.64%	0.01%	-0.05%	0.64%	0.01%	-0.05%	0.64%		
2031	25,324	2,160	27,484	26,657	2,274	28,930	27,990	2,387	30,377	-0.05%	0.72%	0.01%	-0.05%	0.72%	0.01%	-0.05%	0.72%		
2032	25,592	2,059	27,651	26,939	2,167	29,106	28,282	2,379	30,562	1.06%	-4.68%	0.61%	1.06%	-4.68%	0.61%	1.05%	-4.52%		
2033	25,381	2,099	27,480	26,717	2,210	28,926	28,052	2,320	30,372	-0.83%	1.95%	-0.62%	-0.83%	1.95%	-0.62%	-0.81%	1.79%		
2034	25,338	2,145	27,482	26,671	2,257	28,929	28,005	2,370	30,375	-0.17%	2.16%	0.01%	-0.17%	2.16%	0.01%	-0.17%	2.16%		
2035	25,326	2,159	27,484	26,659	2,272	28,931	27,992	2,386	30,377	-0.05%	0.65%	0.01%	-0.05%	0.65%	0.01%	-0.05%	0.65%		
2036	25,532	2,119	27,651	26,876	2,230	29,106	28,216	2,346	30,562	0.82%	-1.84%	0.61%	0.82%	-1.84%	0.61%	0.80%	-1.68%		
2037	25,408	2,071	27,479	26,745	2,180	28,926	28,083	2,289	30,372	-0.49%	-2.25%	-0.62%	-0.49%	-2.25%	-0.62%	-0.47%	-2.01%		
2038	25,398	2,084	27,482	26,735	2,193	28,928	28,072	2,303	30,375	-0.04%	0.60%	0.01%	-0.04%	0.60%	0.01%	-0.04%	0.60%		
2039	25,359	2,126	27,485	26,694	2,238	28,931	28,028	2,349	30,378	-0.15%	2.02%	0.01%	-0.15%	2.02%	0.01%	-0.15%	2.02%		
2040	25,534	2,117	27,652	26,878	2,229	29,107	28,222	2,340	30,562	0.69%	-0.39%	0.61%	0.69%	-0.39%	0.61%	0.69%	-0.39%		

Peak Day - Baseload												Annual Change							
Low			Medium			High			Low			Medium			High				
Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total		
2021	6	206	211	6	216	222	6	227	233	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	6	205	211	6	216	222	6	227	233	1.98%	-0.11%	-0.06%	1.98%	-0.11%	-0.06%	1.98%	-0.11%		
2023	6	205	211	6	216	222	7	227	233	2.19%	-0.12%	-0.06%	2.19%	-0.12%	-0.06%	2.19%	-0.12%		
2024	6	206	212	6	217	223	6	228	234	-1.91%	0.39%	0.33%	-1.91%	0.39%	0.33%	-1.91%	0.39%		
2025	6	206	212	6	217	223	6	227	234	0.71%	-0.08%	-0.05%	0.71%	-0.08%	-0.05%	0.71%	-0.08%		
2026	6	205	211	6	216	222	6	227	233	-2.28%	-0.16%	-0.22%	-2.28%	-0.16%	-0.22%	-2.28%	-0.16%		
2027	6	205	211	6	216	222	6	227	233	0.61%	-0.07%	-0.06%	0.61%	-0.07%	-0.06%	0.61%	-0.07%		
2028	6	206	211	6	216	222	6	227	234	1.00%	0.14%	0.17%	1.00%	0.14%	0.17%	1.00%	0.14%		
2029	6	205	211	6	216	222	6	227	233	0.63%	-0.07%	-0.05%	0.63%	-0.07%	-0.05%	0.63%	-0.07%		
2030	6	206	211	6	216	223	6	227	234	0.64%	0.09%	0.11%	0.64%	0.09%	0.11%	0.64%	0.09%		
2031	6	205	211	6	216	222	7	227	234	0.72%	-0.08%	-0.06%	0.72%	-0.08%	-0.06%	0.72%	-0.08%		
2032	6	206	211	6	217	222	6	227	234	-4.68%	0.14%	0.00%	-4.68%	0.14%	0.00%	-4.52%	0.13%		
2033	6	205	211	6	216	222	6	227	233	1.95%	-0.11%	-0.05%	1.95%	-0.11%	-0.05%	1.79%	-0.11%		
2034	6	205	211	6	216	222	6	227	233	2.16%	-0.12%	-0.06%	2.16%	-0.12%	-0.06%	2.16%	-0.12%		
2035	6	205	211	6	216	222	7	227	233	0.65%	-0.08%	-0.06%	0.65%	-0.08%	-0.06%	0.65%	-0.08%		
2036	6	206	212	6	217	223	6	228	234	-1.84%	0.39%	0.33%	-1.84%	0.39%	0.33%	-1.68%	0.39%		
2037	6	206	211	6	216	222	6	227	233	-2.25%	-0.16%	-0.22%	-2.25%	-0.16%	-0.22%	-2.41%	-0.16%		
2038	6	205	211	6	216	222	6	227	233	0.60%	-0.07%	-0.06%	0.60%	-0.07%	-0.06%	0.60%	-0.07%		
2039	6	205	211	6	216	222	6	227	233	2.02%	-0.11%	-0.06%	2.02%	-0.11%	-0.06%	2.02%	-0.11%		
2040	6	206	211	6	216	222	6	227	234	-0.39%	0.18%	0.17%	-0.39%	0.18%	0.17%	-0.39%	0.18%		

Therms Usage by Class												Annual Change							
Low			Medium			High			Low			Medium			High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total		
2021	9,822	17,667	27,489	10,339	18,597	28,936	10,856	19,527	30,383	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	9,822	17,660	27,482	10,339	18,590	28,929	10,856	19,519	30,375	0.00%	-0.04%	-0.03%	0.00%	-0.04%	-0.03%	0.00%	-0.03%		
2023	9,822	17,663	27,485	10,339	18,593	28,931	10,856	19,522	30,378	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2024	9,869	17,782	27,651	10,389	18,718	29,107	10,908	19,654	30,562	0.48%	0.68%	0.61%	0.48%	0.68%	0.61%	0.48%	0.68%		
2025	9,822	17,658	27,479	10,339	18,587	28,926	10,856	19,516	30,372	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%		
2026	9,822	17,660	27,482	10,339	18,589	28,928	10,856	19,519	30,374	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2027	9,822	17,662	27,484	10,339	18,592	28,931	10,856	19,522	30,377	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2028	9,869	17,783	27,652	10,389	18,719	29,107	10,908	19,655	30,563	0.49%	0.68%	0.61%	0.49%	0.68%	0.61%	0.49%	0.68%		
2029	9,822	17,658	27,480	10,339	18,587	28,926	10,856	19,517	30,372	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%		
2030	9,822	17,660	27,482	10,339	18,589	28,928	10,856	19,519	30,374	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2031	9,822	17,662	27,484	10,339	18,592	28,930	10,856	19,521	30,377	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2032	9,869	17,782	27,651	10,389	18,718	29,106	10,908	19,654	30,562	0.48%	0.68%	0.61%	0.48%	0.68%	0.61%	0.48%	0.68%		
2033	9,822	17,658	27,480	10,339	18,587	28,926	10,856	19,517	30,372	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%		
2034	9,822	17,660	27,482	10,339	18,590	28,929	10,856	19,519	30,375	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2035	9,822	17,663	27,484	10,339	18,592	28,931	10,856	19,522	30,377	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2036	9,869	17,782	27,651	10,389	18,718	29,106	10,908	19,654	30,562	0.48%	0.68%	0.61%	0.48%	0.68%	0.61%	0.48%	0.68%		
2037	9,822	17,658	27,479	10,339	18,587	28,926	10,856	19,516	30,372	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%	-0.62%	-0.48%	-0.70%		
2038	9,822	17,660	27,482	10,339	18,590	28,928	10,856	19,519	30,375	0.00%	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%		
2039	9,822	17,663	27,485	10,339	18,592	28,931	10,856	19,522	30,378	0.00%	0.02%	0.01%	0.00%	0.02%	0.01%	0.00%	0.02%		
2040	9,869	17,782	27,652	10,389	18,718	29,107	10,908	19,654	30,562	0.48%	0.68%	0.61%	0.48%	0.68%	0.61%	0.48%	0.68%		

Customer Count Forecast												Annual Change							
Low			Medium			High			Low			Medium			High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total		
2021	8	6	14	8	6	14	8	6	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	8	6	14	8	6	14	8	6	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2023	8	6	14	8	6	14	8	6	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2024	8	6	14	8	6	14	8	6	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2025	8	6	14	8	6	14	8	6	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2026	8	6	14	8															

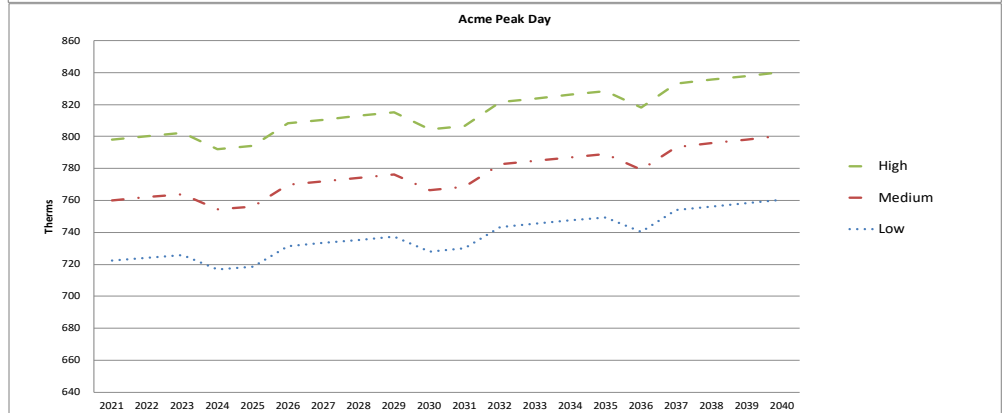
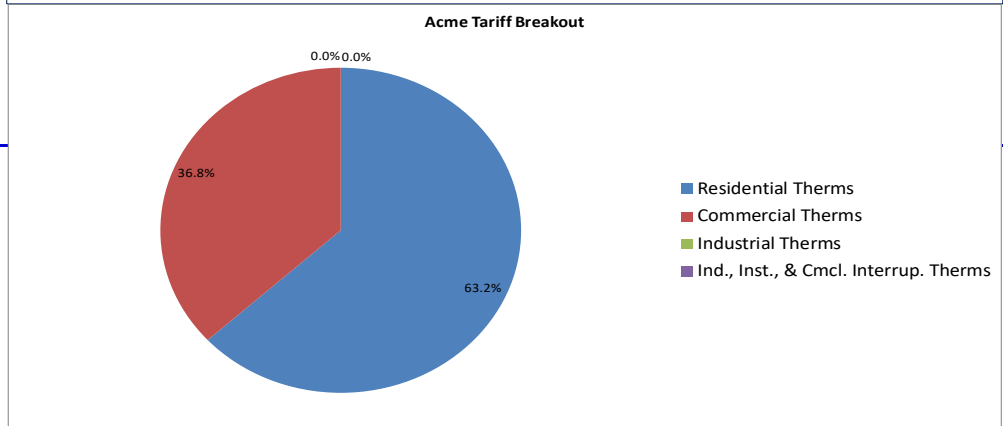
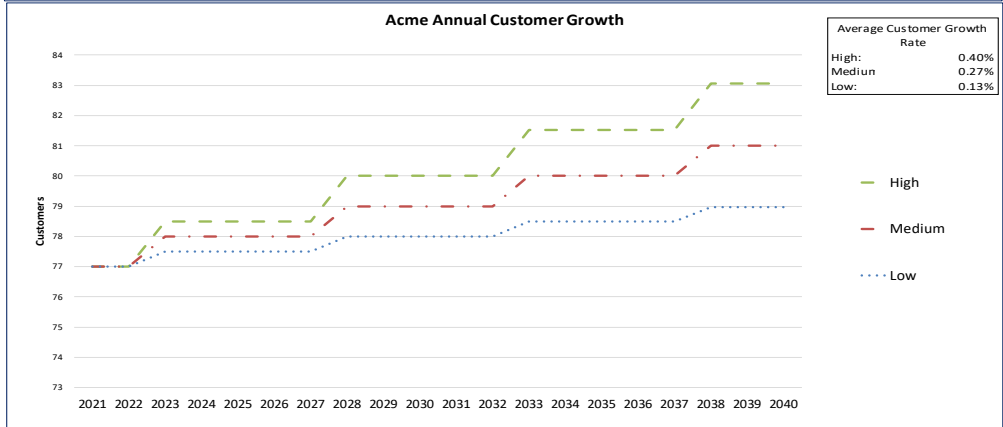
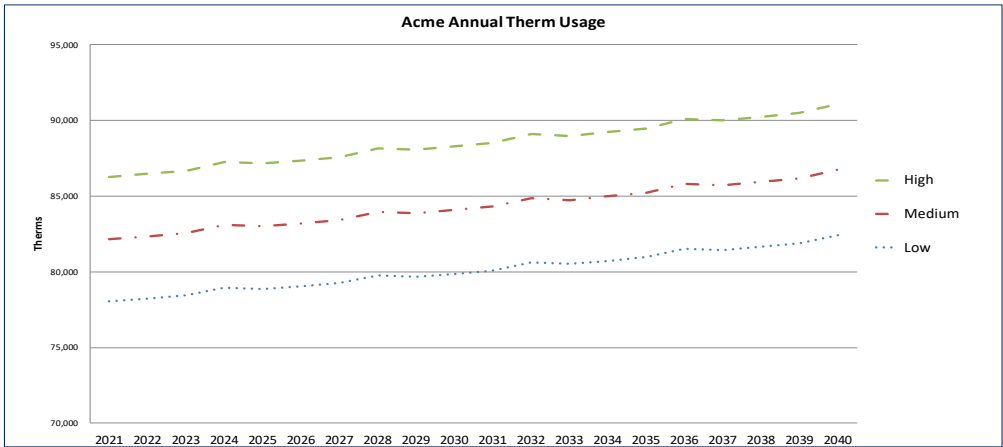


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Acme	Annual Requirements (Therms)										Annual Change								
	Low			Medium			High			Low			Medium			High			
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	
2021	58,673	19,387	78,060	61,761	20,408	82,168	64,849	21,428	86,277	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	58,763	19,479	78,242	61,856	20,504	82,360	64,948	21,529	86,478	0.15%	0.47%	0.23%	0.15%	0.47%	0.23%	0.15%	0.47%	0.23%	
2023	58,901	19,535	78,436	62,001	20,563	82,565	65,101	21,592	86,693	0.24%	0.29%	0.25%	0.24%	0.29%	0.25%	0.24%	0.29%	0.25%	
2024	59,397	19,564	78,961	62,523	20,594	83,117	65,649	21,624	87,273	0.84%	0.15%	0.67%	0.84%	0.15%	0.67%	0.84%	0.15%	0.67%	
2025	59,308	19,537	78,846	62,430	20,565	82,995	65,551	21,594	87,145	-0.15%	-0.14%	-0.15%	-0.14%	-0.15%	-0.14%	-0.15%	-0.14%	-0.15%	
2026	59,452	19,595	79,047	62,582	20,626	83,207	65,711	21,657	87,368	0.24%	0.29%	0.25%	0.24%	0.29%	0.25%	0.24%	0.29%	0.25%	
2027	59,560	19,690	79,251	62,695	20,727	83,422	65,830	21,763	87,593	0.18%	0.49%	0.26%	0.18%	0.49%	0.26%	0.18%	0.49%	0.26%	
2028	60,005	19,749	79,754	63,163	20,788	83,951	66,321	21,828	88,149	0.75%	0.30%	0.63%	0.75%	0.30%	0.63%	0.75%	0.30%	0.63%	
2029	59,811	19,855	79,666	62,959	20,900	83,859	66,107	21,945	88,052	-0.32%	0.54%	-0.11%	-0.32%	0.54%	-0.11%	-0.32%	0.54%	-0.11%	
2030	60,000	19,876	79,877	63,158	20,923	84,081	66,316	21,969	88,285	0.32%	0.11%	0.26%	0.32%	0.11%	0.26%	0.32%	0.11%	0.26%	
2031	60,238	19,851	80,089	63,409	20,896	84,305	66,579	21,941	88,520	0.40%	-0.13%	0.27%	0.40%	-0.13%	0.27%	0.40%	-0.13%	0.27%	
2032	60,715	19,912	80,627	63,911	20,960	84,871	67,106	22,008	89,114	0.79%	0.31%	0.67%	0.79%	0.31%	0.67%	0.79%	0.31%	0.67%	
2033	60,498	20,014	80,512	63,682	21,067	84,749	66,867	22,120	88,987	-0.36%	0.51%	-0.14%	-0.36%	0.51%	-0.14%	-0.36%	0.51%	-0.14%	
2034	60,655	20,076	80,731	63,847	21,133	84,981	67,040	22,190	89,230	0.26%	0.31%	0.27%	0.26%	0.31%	0.27%	0.26%	0.31%	0.27%	
2035	60,778	20,187	80,965	63,977	21,249	85,226	67,176	22,312	89,488	0.20%	0.25%	0.29%	0.20%	0.25%	0.29%	0.20%	0.25%	0.29%	
2036	61,435	20,082	81,516	64,668	21,139	85,807	67,901	22,195	90,097	1.08%	-0.52%	0.68%	1.08%	-0.52%	0.68%	1.08%	-0.52%	0.68%	
2037	61,273	20,145	81,418	64,498	21,206	85,703	67,723	22,266	89,989	-0.26%	0.32%	-0.12%	-0.26%	0.32%	-0.12%	-0.26%	0.32%	-0.12%	
2038	61,396	20,252	81,648	64,628	21,318	85,945	67,859	22,383	90,242	0.20%	0.53%	0.28%	0.20%	0.53%	0.28%	0.20%	0.53%	0.28%	
2039	61,509	20,360	81,868	64,746	21,431	86,177	67,983	22,503	90,486	0.18%	0.53%	0.27%	0.18%	0.53%	0.27%	0.18%	0.53%	0.27%	
2040	62,001	20,432	82,433	65,264	21,508	86,772	68,527	22,583	91,110	0.80%	0.36%	0.69%	0.80%	0.36%	0.69%	0.80%	0.36%	0.69%	

Acme	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	53	669	722	56	704	760	59	740	798	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	53	671	724	56	706	762	59	741	800	0.47%	0.23%	0.25%	0.47%	0.23%	0.25%	0.47%	0.23%	0.25%
2023	54	672	726	56	708	764	59	743	802	0.29%	0.24%	0.25%	0.29%	0.24%	0.25%	0.29%	0.24%	0.25%
2024	54	663	717	56	698	754	59	733	792	0.15%	-1.37%	-1.25%	0.15%	-1.37%	-1.26%	0.15%	-1.37%	-1.25%
2025	54	665	718	56	700	756	59	735	794	-0.14%	0.28%	0.25%	-0.14%	0.28%	0.25%	-0.14%	0.28%	0.25%
2026	54	678	731	57	713	770	59	749	808	0.29%	1.93%	1.81%	0.29%	1.93%	1.81%	0.29%	1.93%	1.81%
2027	54	679	733	57	715	772	60	751	811	0.49%	0.24%	0.26%	0.49%	0.24%	0.26%	0.49%	0.24%	0.26%
2028	54	681	735	57	717	774	60	753	813	0.30%	0.28%	0.28%	0.30%	0.28%	0.28%	0.30%	0.28%	0.28%
2029	54	683	737	57	719	776	60	755	815	0.54%	0.24%	0.26%	0.54%	0.24%	0.26%	0.54%	0.24%	0.26%
2030	54	674	728	57	709	766	60	744	805	0.11%	-1.38%	-1.27%	0.11%	-1.38%	-1.27%	0.11%	-1.38%	-1.27%
2031	54	676	730	57	711	768	60	747	807	-0.13%	0.30%	0.27%	-0.13%	0.30%	0.27%	-0.13%	0.30%	0.27%
2032	55	689	743	57	725	783	60	761	822	0.31%	1.97%	1.85%	0.31%	1.97%	1.85%	0.31%	1.97%	1.85%
2033	55	691	745	58	727	785	61	763	824	0.51%	0.25%	0.27%	0.51%	0.25%	0.27%	0.51%	0.25%	0.27%
2034	55	692	747	58	729	787	61	765	826	0.31%	0.27%	0.27%	0.31%	0.27%	0.27%	0.31%	0.27%	0.27%
2035	55	694	750	58	731	789	61	767	828	0.55%	0.25%	0.27%	0.55%	0.25%	0.27%	0.55%	0.25%	0.27%
2036	55	685	740	58	721	779	61	757	818	-0.52%	-1.29%	-1.23%	-0.52%	-1.29%	-1.23%	-0.52%	-1.29%	-1.23%
2037	55	699	754	58	735	794	61	772	833	0.32%	1.96%	1.83%	0.32%	1.96%	1.83%	0.32%	1.96%	1.83%
2038	55	701	756	58	737	796	61	774	836	0.53%	0.26%	0.28%	0.53%	0.26%	0.28%	0.53%	0.26%	0.28%
2039	56	702	758	59	739	798	62	776	838	0.53%	0.26%	0.28%	0.53%	0.26%	0.28%	0.53%	0.26%	0.28%
2040	56	705	761	59	742	801	62	779	841	0.36%	0.31%	0.31%	0.36%	0.31%	0.31%	0.36%	0.31%	0.31%

Acme	Therms Usage by Class												Annual Change											
	Low				Medium				High				Low				Medium				High			
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total			
2021	49,268	28,792	78,060	51,861	30,307	82,168	54,454	31,823	86,277	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	49,454	28,788	78,242	52,057	30,303	82,360	54,659	31,818	86,478	0.38%	-0.01%	0.23%	0.38%	-0.01%	0.23%	0.38%	-0.01%	0.23%	0.38%	-0.01%	0.23%			
2023	49,649	28,788	78,436	52,262	30,303	82,565	54,875	31,818	86,693	0.39%	0.00%	0.25%	0.39%	0.00%	0.25%	0.39%	0.00%	0.25%	0.39%	0.00%	0.25%			
2024	50,054	28,907	78,961	52,688	30,429	83,117	55,323	31,950	87,273	0.82%	0.41%	0.67%	0.82%	0.41%	0.67%	0.82%	0.41%	0.67%	0.82%	0.41%	0.67%			
2025	50,054	28,792	78,846	52,688	30,307	82,995	55,322	31,823	87,145	0.00%	-0.40%	-0.15%	0.00%	-0.40%	-0.15%	0.00%	-0.40%	-0.15%	0.00%	-0.40%	-0.15%			
2026	50,255	28,792	79,047	52,900	30,307	83,207	55,545	31,823	87,368	0.40%	0.00%	0.26%	0.40%	0.00%	0.26%	0.40%	0.00%	0.26%	0.40%	0.00%	0.26%			
2027	50,459	28,792	79,251	53,114	30,307	83,422	55,770	31,823	87,593	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%			
2028	50,854	28,899	79,754	53,531	30,420	83,951	56,207	31,941	88,149	0.78%	0.37%	0.63%	0.78%	0.37%	0.63%	0.78%	0.37%	0.63%	0.78%	0.37%	0.63%			
2029	50,874	28,792	79,666	53,552	30,307	83,859	56,230	31,823	88,052	0.04%	-0.37%	-0.11%	0.04%	-0.37%	-0.11%	0.04%	-0.37%	-0.11%	0.04%	-0.37%	-0.11%			
2030	51,085	28,792	79,877	53,773	30,307	84,081	56,462	31,823	88,285	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%	0.41%	0.00%	0.26%			
2031	51,297	28,792	80,089	53,997	30,307	84,305	56,697	31,823	88,520	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%			
2032	51,720	28,907	80,627	54,442	30,429	84,871	57,164	31,950	89,114	0.82%	0.40%	0.67%	0.82%	0.40%	0.67%	0.82%	0.40%	0.67%	0.82%	0.40%	0.67%			
2033	51,724	28,788	80,512	54,446	30,303	84,749	57,169	31,818	88,987	0.01%	-0.41%	-0.14%	0.01%	-0.41%	-0.14%	0.01%	-0.41%	-0.14%	0.01%	-0.41%	-0.14%			
2034	51,944	28,788	80,731	54,677	30,303	84,981	57,411	31,818	89,230	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%	0.42%	0.00%	0.27%			
2035	52,173	28,792	80,965	54,919	30,307	85,226	57,665	31,823	89,488	0.44%	0.01%	0.29%	0.44%	0.01%	0.29%	0.44%	0.01%	0.29%	0.44%	0.01%	0.29%			
2036	52,609	28,907	81,516	55,378	30,429	85,807	58,147	31,950	90,097	0.84%	0.40%	0.68%	0.84%	0.40%	0.68%	0.84%	0.40%	0.68%	0.84%	0.40%	0.68%			
2037	52,626	28,792	81,418	55,396	30,307	85,703	58,166	31,823	89,989	0.03%	-0.40%	-0.12%	0.03%	-0.40%	-0.12%	0.03%	-0.40%	-0.12%	0.03%	-0.40%	-0.12%			
2038	52,856	28,792	81,648	55,638	30,307	85,945	58,420	31,823	90,242	0.44%	0.00%	0.28%	0.44%	0.00%	0.28%	0.44%	0.00%	0.28%	0.44%	0.00%	0.28%			
2039	53,080	28,788	81,868	55,874	30,303	86,177	58,668	31,818	90,486	0.42%	-0.01%	0.27%	0.42%	-0.01%	0.27%	0.42%	-0.01%							

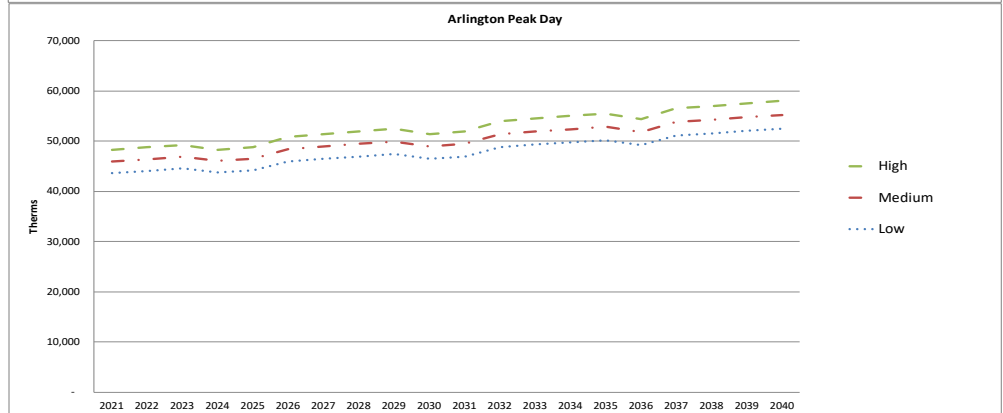
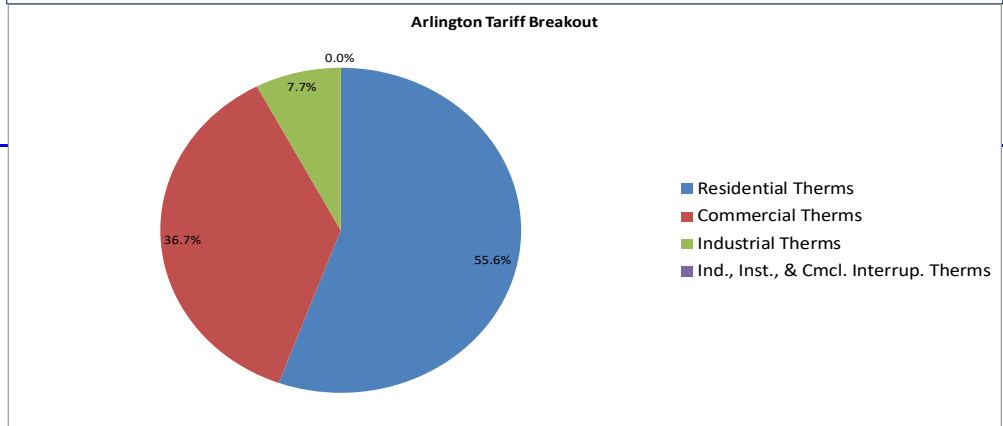
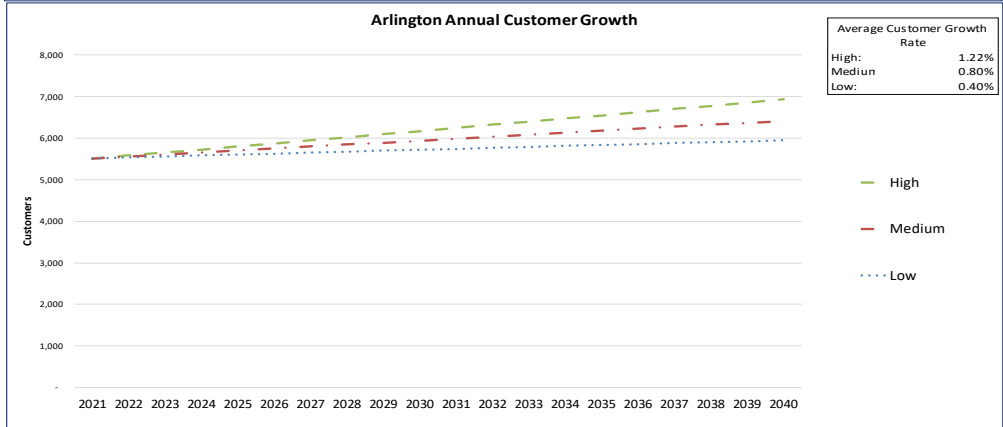
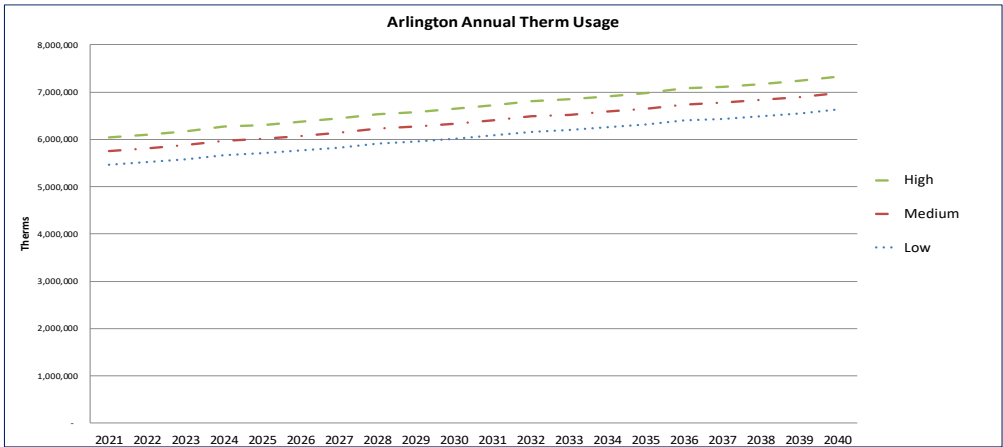


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Arlington																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	3,626,646	1,837,017	5,463,662	3,817,522	1,933,702	5,751,224	4,008,398	2,030,387	6,038,785	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,650,180	1,875,113	5,525,292	3,842,294	1,973,803	5,816,097	4,034,409	2,072,493	6,106,902	0.65%	2.07%	1.13%	0.65%	2.07%	1.13%	0.65%	2.07%
2023	3,686,498	1,898,395	5,584,893	3,880,524	1,998,310	5,878,834	4,074,551	2,098,225	6,172,776	0.99%	1.24%	1.08%	0.99%	1.24%	1.08%	0.99%	1.24%
2024	3,766,263	1,903,758	5,670,021	3,964,488	2,003,956	5,968,444	4,162,712	2,104,154	6,266,866	2.16%	0.28%	1.52%	2.16%	0.28%	1.52%	2.16%	0.28%
2025	3,796,008	1,912,078	5,708,086	3,995,798	2,012,713	6,008,511	4,195,588	2,113,349	6,308,937	0.79%	0.44%	0.67%	0.79%	0.44%	0.67%	0.79%	0.44%
2026	3,834,480	1,936,057	5,770,537	4,036,295	2,037,955	6,074,249	4,238,109	2,139,853	6,377,962	1.01%	1.25%	1.01%	1.01%	1.25%	1.09%	1.01%	1.25%
2027	3,856,898	1,975,752	5,832,649	4,059,892	2,079,738	6,139,631	4,262,887	2,183,725	6,446,612	0.58%	2.05%	1.08%	0.58%	2.05%	1.08%	0.58%	2.05%
2028	3,905,863	2,010,235	5,916,098	4,111,435	2,116,037	6,227,472	4,317,006	2,221,839	6,538,845	1.27%	1.75%	1.43%	1.27%	1.75%	1.43%	1.27%	1.75%
2029	3,920,528	2,035,532	5,956,059	4,126,871	2,142,665	6,269,536	4,333,215	2,249,798	6,583,013	0.38%	1.26%	0.68%	0.38%	1.26%	0.68%	0.38%	1.26%
2030	3,974,464	2,043,330	6,017,794	4,183,647	2,150,873	6,334,520	4,392,830	2,258,417	6,651,246	1.38%	0.38%	1.04%	1.38%	0.38%	1.04%	1.38%	0.38%
2031	4,028,390	2,050,665	6,079,055	4,240,410	2,158,595	6,399,005	4,452,431	2,266,524	6,718,955	1.36%	0.36%	1.02%	1.36%	0.36%	1.02%	1.36%	0.36%
2032	4,078,691	2,086,321	6,165,013	4,293,359	2,196,128	6,489,487	4,508,027	2,305,934	6,813,961	1.25%	1.74%	1.41%	1.25%	1.74%	1.41%	1.25%	1.74%
2033	4,072,799	2,125,028	6,197,827	4,287,157	2,236,872	6,524,029	4,501,515	2,348,715	6,850,230	-0.14%	1.86%	0.53%	-0.14%	1.86%	0.53%	-0.14%	1.86%
2034	4,108,805	2,148,264	6,257,069	4,325,058	2,261,330	6,586,389	4,541,312	2,374,397	6,915,708	0.88%	1.09%	0.96%	0.88%	1.09%	0.96%	0.88%	1.09%
2035	4,144,653	2,172,566	6,317,219	4,362,795	2,286,911	6,649,706	4,580,934	2,401,257	6,982,191	0.87%	1.13%	0.96%	0.87%	1.13%	0.96%	0.87%	1.13%
2036	4,245,451	2,156,397	6,401,849	4,468,896	2,269,892	6,738,788	4,693,241	2,383,387	7,075,277	2.43%	-0.74%	1.34%	2.43%	-0.74%	1.34%	2.43%	-0.74%
2037	4,254,435	2,178,743	6,433,178	4,478,352	2,293,414	6,771,766	4,702,270	2,408,084	7,110,354	0.21%	1.04%	0.49%	0.21%	1.04%	0.49%	0.21%	1.04%
2038	4,272,098	2,218,632	6,490,730	4,496,945	2,335,402	6,832,348	4,721,792	2,452,172	7,173,965	0.42%	1.83%	0.89%	0.42%	1.83%	0.89%	0.42%	1.83%
2039	4,289,060	2,257,562	6,546,622	4,514,800	2,376,381	6,891,181	4,740,541	2,495,199	7,235,740	0.40%	1.75%	0.86%	0.40%	1.75%	0.86%	0.40%	1.75%
2040	4,354,592	2,276,790	6,631,382	4,583,780	2,396,622	6,980,402	4,812,970	2,516,453	7,329,422	1.53%	0.85%	1.29%	1.53%	0.85%	1.29%	1.53%	0.85%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	5,033	38,579	43,612	5,298	40,609	45,907	5,563	42,640	48,203	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,137	38,955	44,093	5,408	41,006	46,413	5,678	43,056	48,734	2.07%	0.98%	1.10%	2.07%	0.98%	1.10%	2.07%	0.98%
2023	5,201	39,348	44,549	5,475	41,419	46,894	5,749	43,490	49,238	1.24%	1.01%	1.04%	1.24%	1.01%	1.04%	1.24%	1.01%
2024	5,216	38,504	43,720	5,490	40,531	46,021	5,765	42,557	48,322	0.28%	-2.14%	-1.86%	0.28%	-2.14%	-1.86%	0.28%	-2.14%
2025	5,309	38,939	44,248	5,514	40,988	46,503	5,790	43,038	48,828	0.44%	1.13%	1.05%	0.44%	1.13%	1.05%	0.44%	1.13%
2026	5,304	40,678	45,982	5,583	42,818	48,402	5,863	44,959	50,822	1.25%	4.46%	4.08%	1.25%	4.46%	4.08%	1.25%	4.46%
2027	5,413	41,044	46,457	5,698	43,204	48,902	5,983	45,365	51,347	2.05%	0.90%	1.03%	2.05%	0.90%	1.03%	2.05%	0.90%
2028	5,507	41,444	46,951	5,797	43,625	49,422	6,087	45,806	51,893	1.75%	0.97%	1.06%	1.75%	0.97%	1.06%	1.75%	0.97%
2029	5,577	41,847	47,424	5,870	44,050	49,920	6,164	46,252	52,416	1.26%	0.97%	1.01%	1.26%	0.97%	1.01%	1.26%	0.97%
2030	5,598	40,901	46,499	5,893	43,053	48,946	6,187	45,206	51,393	0.38%	-2.26%	-1.95%	0.38%	-2.26%	-1.95%	0.38%	-2.26%
2031	5,618	41,335	46,953	5,914	43,510	49,424	6,210	45,686	51,895	0.36%	1.06%	0.98%	0.36%	1.06%	0.98%	0.36%	1.06%
2032	5,716	43,135	48,851	6,017	45,405	51,422	6,318	47,575	53,993	1.74%	4.35%	4.04%	1.74%	4.35%	4.04%	1.74%	4.35%
2033	5,822	43,486	49,308	6,128	45,774	51,903	6,435	48,023	54,498	1.86%	0.81%	0.94%	1.86%	0.81%	0.94%	1.86%	0.81%
2034	5,886	43,875	49,761	6,195	46,184	52,380	6,505	48,493	54,999	1.09%	0.90%	0.92%	1.09%	0.90%	0.92%	1.09%	0.90%
2035	5,952	44,257	50,209	6,266	46,586	52,852	6,579	48,915	55,494	1.13%	0.87%	0.90%	1.13%	0.87%	0.90%	1.13%	0.87%
2036	5,908	43,290	49,198	6,219	45,568	51,787	6,530	47,846	54,376	-0.74%	-2.19%	-2.01%	-0.74%	-2.19%	-2.01%	-0.74%	-2.19%
2037	5,969	45,150	51,120	6,283	47,527	53,810	6,597	49,903	56,501	1.04%	4.30%	3.91%	1.04%	4.30%	3.91%	1.04%	4.30%
2038	6,078	45,480	51,559	6,398	47,874	54,272	6,718	50,268	56,986	1.83%	0.73%	0.86%	1.83%	0.73%	0.86%	1.83%	0.73%
2039	6,185	45,812	51,997	6,511	48,223	54,733	6,836	50,634	57,470	1.75%	0.73%	0.85%	1.75%	0.73%	0.85%	1.75%	0.73%
2040	6,238	46,223	52,461	6,566	48,656	55,222	6,894	51,088	57,983	0.85%	0.90%	0.89%	0.85%	0.90%	0.89%	0.85%	0.90%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	3,100,699	2,366,964	5,467,662	3,263,894	2,487,330	5,751,224	3,427,088	2,611,696	6,038,785	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,118,883	2,406,409	5,525,292	3,283,034	2,533,063	5,816,097	3,447,186	2,659,716	6,106,902	0.59%	1.84%	1.13%	0.59%	1.84%	1.13%	0.59%	1.84%
2023	3,136,849	2,448,043	5,584,893	3,301,946	2,576,888	5,878,834	3,467,044	2,705,732	6,172,776	0.58%	1.73%	1.08%	0.58%	1.73%	1.08%	0.58%	1.73%
2024	3,169,191	2,500,830	5,670,021	3,335,991	2,632,452	5,968,444	3,502,791	2,764,075	6,266,866	1.03%	2.16%	1.52%	1.03%	2.16%	1.52%	1.03%	2.16%
2025	3,174,309	2,533,777	5,708,086	3,341,377	2,667,134	6,008,511	3,508,446	2,800,491	6,308,937	0.16%	1.32%	0.67%	0.16%	1.32%	0.67%	0.16%	1.32%
2026	3,193,134	2,577,403	5,770,537	3,361,194	2,713,055	6,074,249	3,529,254	2,848,708	6,377,962	0.59%	1.72%	1.09%	0.59%	1.72%	1.09%	0.59%	1.72%
2027	3,211,858	2,620,791	5,832,649	3,380,903	2,758,728	6,139,631	3,549,949	2,896,644	6,446,612	0.59%	1.68%	1.08%	0.59%	1.68%	1.08%	0.59%	1.68%
2028	3,242,718	2,673,380	5,916,098	3,413,388	2,814,084	6,227,472	3,584,057	2,954,789	6,538,845	0.96%	2.01%	1.43%	0.96%	2.01%	1.43%	0.96%	2.01%
2029	3,249,053	2,707,006	5,956,059	3,420,056	2,849,480	6,269,536	3,591,059	2,991,954	6,583,013	0.20%	1.26%	0.68%	0.20%	1.26%	0.68%	0.20%	1.26%
2030	3,267,663	2,750,131	6,017,794	3,439,645	2,894,875	6,334,520	3,611,628	3,039,619	6,651,246	0.57%	1.59%	1.04%	0.57%	1.59%	1.04%	0.57%	1.59%
2031	3,286,130	2,792,295	6,079,055	3,459,084	2,939,921	6,399,005	3,632,038	3,086,917	6,718,955	0.57%	1.56%	1.02%	0.57%	1.56%	1.02%	0.57%	1.56%
2032	3,318,418	2,846,595	6,165,013	3,493,071	2,996,416	6,489,487	3,667,723	3,146,237	6,813,961	0.98%	1.92%	1.41%	0.98%	1.92%	1.41%	0.98%	1.92%
2033	3,321,598	2,876,229	6,197,827	3,496,419	3,027,610	6,524,029	3,671,240	3,178,991	6,850,230	0.10%	1.04%	0.53%	0.10%	1.04%	0.53%	0.10%	1.04%
2034	3,339,456	2,917,613	6,257,069	3,515,217	3,071,171	6,586,389	3,690,978	3,224,730	6,915,708	0.54%	1.44%	0.96%	0.54%	1.44%	0.96%	0.54%	1.44%
2035	3,357,918	2,959,303	6,317,219	3,534,651	3,115,055	6,649,706	3,711,383	3,270,808	6,982,191	0.55%	1.43%	0.96%	0.55%	1.43%	0.96%	0.55%	1.43%
2036	3,389,817	3,012,031	6,401,849	3,568,228	3,170,559	6,738,788	3,746,640	3,329,087	7,075,277	0.95%	1.78%	1.34%	0.95%	1.78%	1.34%	0.95%	1.78%
2037	3,392,867	3,040,311	6,433,178	3,571,439	3,200,327	6,771,766	3										

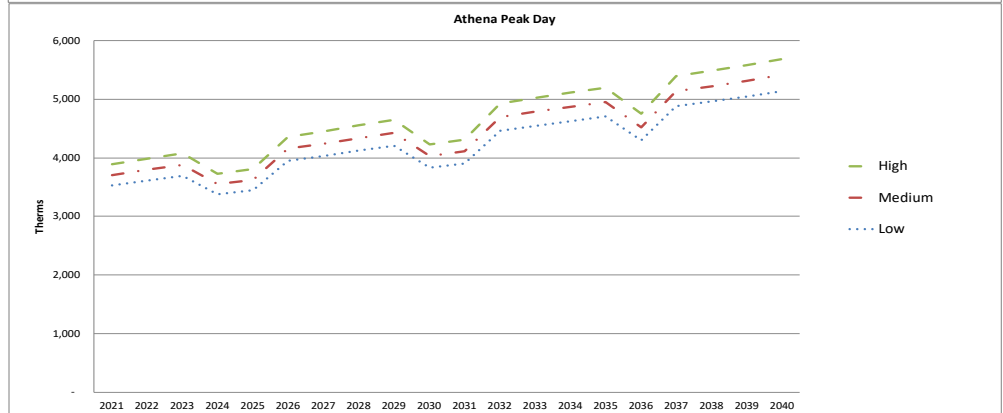
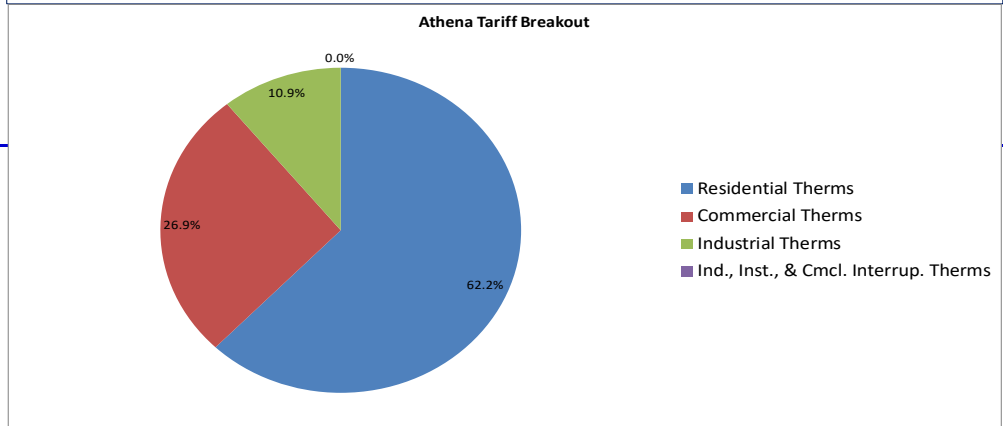
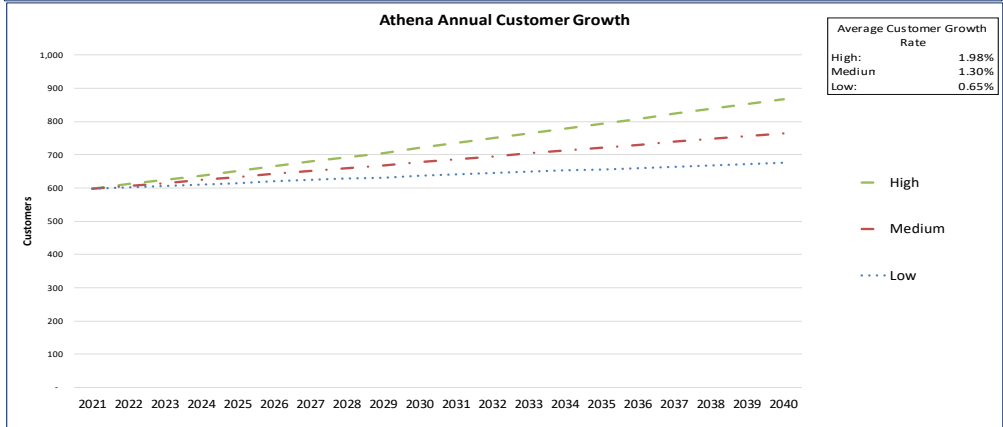
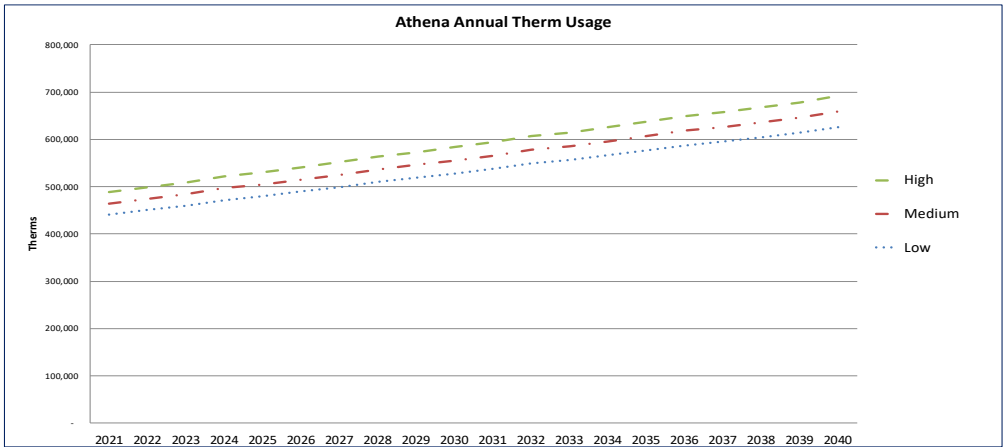


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Athens	Annual Requirements (Therms)									Annual Change										
	Low			Medium			High			Low			Medium			High				
	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total		
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	379,524	62,078	441,603	399,499	65,345	464,845	419,474	68,613	488,087	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	384,429	66,462	450,892	404,662	69,960	474,623	424,895	73,458	498,354	1.29%	7.06%	2.10%	1.29%	7.06%	2.10%	1.29%	7.06%	2.10%	1.29%	7.06%
	403,886	56,612	460,498	425,143	59,591	484,735	446,400	62,571	508,971	5.06%	-14.82%	2.13%	5.06%	-14.82%	2.13%	5.06%	-14.82%	2.13%	5.06%	-14.82%
	415,987	56,064	472,051	437,881	59,014	496,895	459,775	61,965	521,740	3.00%	-0.97%	2.51%	3.00%	-0.97%	2.51%	3.00%	-0.97%	2.51%	3.00%	-0.97%
	417,892	62,016	479,908	439,886	65,280	505,166	461,880	68,544	530,424	0.46%	10.62%	1.66%	0.46%	10.62%	1.66%	0.46%	10.62%	1.66%	0.46%	10.62%
	426,547	62,939	489,487	448,997	66,252	515,249	471,447	69,564	541,012	2.07%	1.49%	2.00%	2.07%	1.49%	2.00%	2.07%	1.49%	2.00%	2.07%	1.49%
	431,648	67,521	499,169	454,366	71,075	525,441	477,085	74,628	551,713	1.20%	7.28%	1.98%	1.20%	7.28%	1.98%	1.20%	7.28%	1.98%	1.20%	7.28%
	446,869	62,921	509,790	470,388	66,233	536,621	493,907	69,544	563,452	3.53%	-6.81%	2.13%	3.53%	-6.81%	2.13%	3.53%	-6.81%	2.13%	3.53%	-6.81%
	445,280	73,254	518,534	468,716	77,110	545,826	492,152	80,965	573,117	-0.36%	16.42%	1.72%	-0.36%	16.42%	1.72%	-0.36%	16.42%	1.72%	-0.36%	16.42%
	470,721	57,298	528,019	495,495	60,314	555,809	520,270	63,329	583,600	5.71%	-21.78%	1.83%	5.71%	-21.78%	1.83%	5.71%	-21.78%	1.83%	5.71%	-21.78%
	470,320	67,142	537,462	495,073	70,676	565,749	519,827	74,209	594,036	-0.09%	17.18%	1.79%	-0.09%	17.18%	1.79%	-0.09%	17.18%	1.79%	-0.09%	17.18%
	476,982	72,067	549,050	502,087	75,860	577,947	527,191	79,653	606,844	1.42%	7.34%	2.16%	1.42%	7.34%	2.16%	1.42%	7.34%	2.16%	1.42%	7.34%
	479,455	76,941	556,396	504,690	80,990	585,680	529,924	85,040	614,964	0.52%	6.76%	1.34%	0.52%	6.76%	1.34%	0.52%	6.76%	1.34%	0.52%	6.76%
	501,616	64,405	566,021	528,017	67,795	595,812	554,418	71,184	625,603	4.62%	-16.29%	1.73%	4.62%	-16.29%	1.73%	4.62%	-16.29%	1.73%	4.62%	-16.29%
	497,168	78,557	575,725	523,335	83,112	606,447	549,502	87,268	636,770	-0.89%	22.59%	1.79%	-0.89%	22.59%	1.79%	-0.89%	22.59%	1.79%	-0.89%	22.59%
	516,061	71,425	587,486	543,222	75,184	618,406	570,383	78,943	649,327	3.80%	-9.54%	1.97%	3.80%	-9.54%	1.97%	3.80%	-9.54%	1.97%	3.80%	-9.54%
	522,665	72,384	595,049	550,174	76,194	626,368	577,682	80,004	657,686	1.28%	1.34%	1.29%	1.28%	1.34%	1.29%	1.28%	1.34%	1.29%	1.28%	1.34%
	527,287	77,457	604,744	555,039	81,534	636,573	582,790	85,611	668,401	0.88%	7.01%	1.63%	0.88%	7.01%	1.63%	0.88%	7.01%	1.63%	0.88%	7.01%
	531,275	82,649	613,924	559,237	86,999	646,236	587,199	91,349	678,548	0.76%	6.70%	1.52%	0.76%	6.70%	1.52%	0.76%	6.70%	1.52%	0.76%	6.70%
	558,179	67,596	625,774	587,556	71,153	658,710	616,934	74,711	691,645	5.06%	-18.21%	1.93%	5.06%	-18.21%	1.93%	5.06%	-18.21%	1.93%	5.06%	-18.21%

Athens	Peak Day - BaseLoad									Annual Change									
	Low			Medium			High			Low			Medium			High			
	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	170	3,355	3,525	179	3,531	3,710	188	3,708	3,896	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	182	3,425	3,607	192	3,605	3,797	201	3,785	3,987	7.06%	2.09%	2.33%	7.06%	2.09%	2.33%	7.06%	2.09%	2.33%	7.06%
	155	3,534	3,689	163	3,720	3,883	171	3,906	4,077	-14.82%	3.18%	2.27%	-14.82%	3.18%	2.27%	-14.82%	3.18%	2.27%	-14.82%
	154	3,219	3,373	162	3,389	3,550	170	3,558	3,728	-0.97%	-8.91%	-8.57%	-0.97%	-8.91%	-8.57%	-0.97%	-8.91%	-8.57%	-0.97%
	170	3,277	3,447	179	3,449	3,628	188	3,622	3,810	10.62%	1.79%	2.19%	10.62%	1.79%	2.19%	10.62%	1.79%	2.19%	10.62%
	172	3,774	3,947	182	3,973	4,154	191	4,171	4,362	1.49%	15.17%	14.50%	1.49%	15.17%	14.50%	1.49%	15.17%	14.50%	1.49%
	185	3,843	4,028	195	4,046	4,240	204	4,248	4,452	7.28%	1.83%	2.07%	7.28%	1.83%	2.07%	7.28%	1.83%	2.07%	7.28%
	172	3,950	4,123	181	4,158	4,340	191	4,366	4,557	-6.81%	2.78%	2.34%	-6.81%	2.78%	2.34%	-6.81%	2.78%	2.34%	-6.81%
	201	4,004	4,204	211	4,214	4,426	222	4,425	4,647	16.42%	1.35%	1.98%	16.42%	1.35%	1.98%	16.42%	1.35%	1.98%	16.42%
	157	3,671	3,828	165	3,865	4,030	174	4,058	4,231	-21.78%	-8.30%	-8.95%	-21.78%	-8.30%	-8.95%	-21.78%	-8.30%	-8.95%	-21.78%
	184	3,718	3,902	194	3,914	4,107	203	4,109	4,313	17.18%	1.27%	1.92%	17.18%	1.27%	1.92%	17.18%	1.27%	1.92%	17.18%
	197	4,265	4,463	208	4,490	4,698	218	4,714	4,933	7.34%	14.73%	14.38%	7.34%	14.73%	14.38%	7.34%	14.73%	14.38%	7.34%
	211	4,333	4,544	222	4,561	4,783	233	4,790	5,023	6.76%	1.60%	1.82%	6.76%	1.60%	1.82%	6.76%	1.60%	1.82%	6.76%
	176	4,449	4,625	186	4,683	4,869	195	4,917	5,112	-16.29%	2.67%	1.79%	-16.29%	2.67%	1.79%	-16.29%	2.67%	1.79%	-16.29%
	216	4,490	4,707	228	4,727	4,954	239	4,963	5,202	22.59%	0.93%	1.76%	22.59%	0.93%	1.76%	22.59%	0.93%	1.76%	22.59%
	196	4,101	4,297	206	4,317	4,523	216	4,533	4,749	-9.54%	-8.66%	-8.70%	-9.54%	-8.66%	-8.70%	-9.54%	-8.66%	-8.70%	-9.54%
	198	4,686	4,884	209	4,932	5,141	219	5,179	5,398	1.34%	14.24%	13.66%	1.34%	14.24%	13.66%	1.34%	14.24%	13.66%	1.34%
	212	4,753	4,965	223	5,003	5,226	235	5,253	5,488	7.01%	1.43%	1.66%	7.01%	1.43%	1.66%	7.01%	1.43%	1.66%	7.01%
	226	4,819	5,046	238	5,073	5,311	250	5,327	5,577	6.70%	1.40%	1.63%	6.70%	1.40%	1.63%	6.70%	1.40%	1.63%	6.70%
	185	4,958	5,143	195	5,219	5,414	205	5,479	5,684	-18.21%	2.87%	1.92%	-18.21%	2.87%	1.92%	-18.21%	2.87%	1.92%	-18.21%

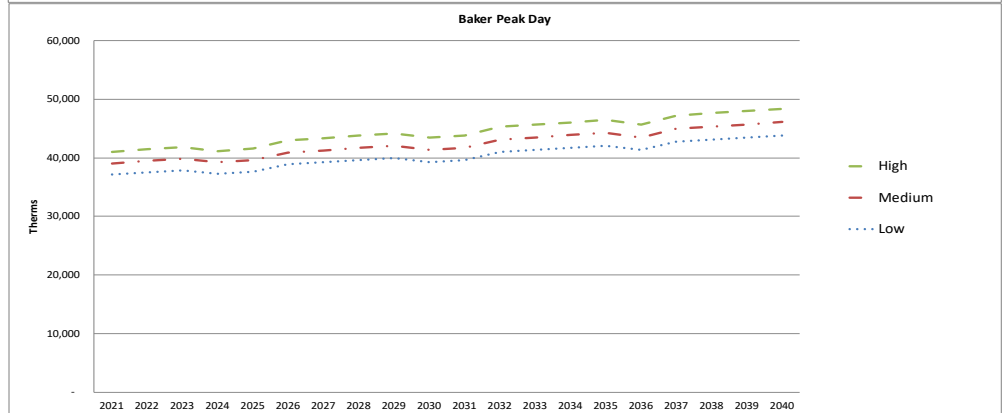
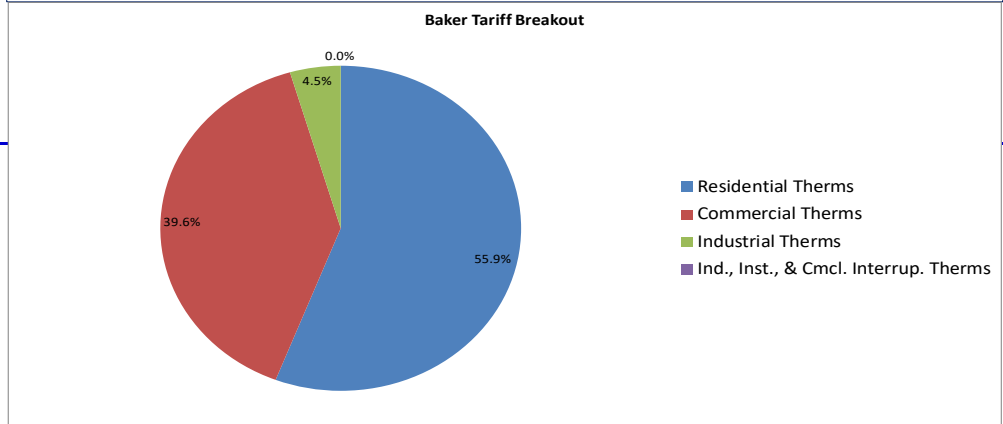
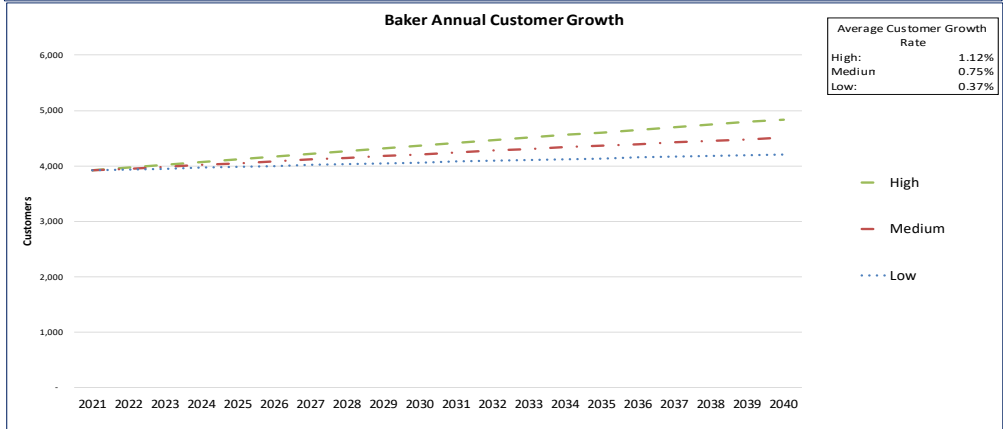
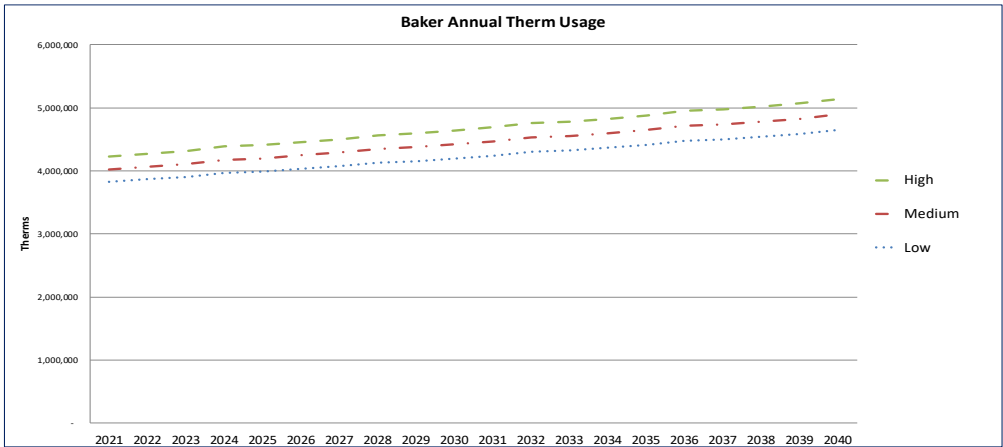
Athens	Therms Usage by Class									Annual Change									
	Low			Medium			High			Low			Medium			High			
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	287,891	153,711	441,603	303,043	161,802	464,845	318,195	169,892	488,087	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	290,897	159,994	450,892	306,208	168,415	474,623	321,518	176,836	498,354	1.04%	4.09%	2.10%	1.04%	4.09%	2.10%	1.04%	4.09%	2.10%	1.04%
	294,099	166,399	460,498	309,578	175,157	484,735	325,057	183,914	508,971	1.10%	4.00%	2.13%	1.10%	4.00%	2.13%	1.10%	4.00%	2.13%	1.10%
	298,499	173,551	472,051	314,210	182,686	496,895	329,920	191,820	521,740	1.50%	4.30%	2.51%	1.50%	4.30%	2.51%	1.50%	4.30%	2.51%	1.50%
	300,617	179,290	479,908	316,439	188,727	505,166	332,261	198,163	530,424	0.71%	3.31%	1.66%	0.71%	3.31%	1.66%	0.71%	3.31%	1.66%	0.71%
	303,805	185,682	489,487	319,795	195,455	515,249	335,784	205,227	541,012	1.06%	3.56%	2.06%	1.06%	3.56%	2.06%	1.06%	3.56%	2.06%	1.06%
	307,063	192,106	499,169	323,224	202,217	525,441	339,385	212,328	551,713	1.07%	3.46%	1.98%	1.07%	3.46%	1.98%	1.07%	3.46%	1.98%	1.07%
	310,849	198,941	509,790	327,209	209,411	536,621	343,570	219,882	563,452	1.23%	3.56%	2.13%	1.23%	3.56%	2.13%	1.23%	3.56%	2.13%	1.



Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Baker																																			
Annual Requirements (Therms)																																			
Low									Medium									High									Annual Change								
Heating			BaseLoad			Total			Heating			BaseLoad			Total			Heating			BaseLoad			Total			Heating			BaseLoad			Total		
2021	3,097,889	728,170	3,826,059	3,260,936	766,495	4,027,431	3,423,983	804,820	4,228,802	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%					
2022	3,125,351	741,121	3,866,472	3,289,843	780,128	4,069,971	3,454,335	819,134	4,273,469	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%	0.89%	1.78%	1.06%					
2023	3,154,446	753,045	3,907,491	3,320,469	792,679	4,113,148	3,486,493	832,313	4,318,805	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%	0.93%	1.61%	1.06%					
2024	3,198,739	770,133	3,968,872	3,367,093	810,666	4,177,760	3,535,448	851,200	4,386,648	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%	1.40%	2.27%	1.57%					
2025	3,214,427	776,648	3,991,075	3,383,608	817,524	4,201,132	3,552,788	858,400	4,411,188	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%	0.49%	0.85%	0.56%					
2026	3,243,426	789,048	4,032,474	3,414,132	830,577	4,244,709	3,584,839	872,106	4,455,945	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%	0.90%	1.60%	1.04%					
2027	3,271,610	802,478	4,074,088	3,443,800	844,714	4,288,514	3,615,990	886,590	4,502,940	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%	0.87%	1.70%	1.03%					
2028	3,316,877	817,059	4,133,936	3,491,449	860,063	4,351,512	3,666,021	903,066	4,569,087	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%	1.38%	1.82%	1.17%					
2029	3,322,571	835,398	4,157,969	3,497,443	879,366	4,376,809	3,672,315	923,334	4,595,649	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%	0.17%	2.24%	0.58%					
2030	3,352,116	847,899	4,200,016	3,528,543	892,526	4,421,069	3,704,970	937,152	4,642,123	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%	0.89%	1.50%	1.01%					
2031	3,387,050	855,229	4,242,279	3,565,316	900,241	4,465,557	3,743,582	945,253	4,688,834	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%	1.04%	0.86%	1.01%					
2032	3,434,857	870,750	4,305,607	3,615,639	916,579	4,532,218	3,796,421	962,408	4,758,829	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%	1.41%	1.81%	1.49%					
2033	3,441,519	885,077	4,326,596	3,622,652	931,660	4,554,312	3,803,784	978,243	4,782,027	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%	0.19%	1.65%	0.49%					
2034	3,470,364	898,979	4,369,343	3,653,014	946,294	4,599,308	3,835,665	993,609	4,829,274	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%	0.84%	1.57%	0.99%					
2035	3,494,365	919,059	4,413,424	3,678,279	967,430	4,645,710	3,862,193	1,015,802	4,877,995	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%	0.69%	2.23%	1.01%					
2036	3,549,955	928,267	4,478,222	3,736,794	977,124	4,713,918	3,923,634	1,025,980	4,949,614	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%	1.59%	1.00%	1.47%					
2037	3,557,270	942,938	4,500,208	3,744,495	992,566	4,737,061	3,931,720	1,042,194	4,973,914	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%	0.21%	1.58%	0.49%					
2038	3,585,625	958,144	4,543,769	3,774,342	1,008,572	4,782,914	3,963,059	1,059,001	5,022,060	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%	0.80%	1.61%	0.97%					
2039	3,612,969	973,484	4,586,453	3,803,126	1,024,720	4,827,846	3,993,282	1,075,956	5,069,238	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%	0.76%	1.60%	0.94%					
2040	3,656,123	996,436	4,652,559	3,848,551	1,048,880	4,897,431	4,040,978	1,101,324	5,142,302	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%	1.19%	2.36%	1.44%					

Peak Day - BaseLoad																																			
Low									Medium									High									Annual Change								
Daily BaseLoad			Peak			Total			Daily BaseLoad			Peak			Total			Daily BaseLoad			Peak			Total			Base			Peak			Total		
2021	1,995	35,136	37,131	2,100	36,986	39,086	2,205	38,835	41,040	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
2022	2,030	35,448	37,479	2,137	37,314	39,451	2,244	39,180	41,424	1.78%	0.89%	0.94%	1.78%	0.89%	0.94%	1.78%	0.89%	0.94%	1.78%	0.89%	0.94%	1.78%	0.89%	0.94%	1.78%	0.89%	0.94%	1.78%	0.89%						
2023	2,063	35,763	37,826	2,172	37,645	39,817	2,280	39,527	41,808	1.61%	0.89%	0.93%	1.61%	0.89%	0.93%	1.61%	0.89%	0.93%	1.61%	0.89%	0.93%	1.61%	0.89%	0.93%	1.61%	0.89%	0.93%	1.61%	0.89%						
2024	2,110	35,150	37,260	2,221	37,000	39,221	2,332	38,850	41,182	2.27%	-1.71%	-1.50%	2.27%	-1.71%	-1.50%	2.27%	-1.71%	-1.50%	2.27%	-1.71%	-1.50%	2.27%	-1.71%	-1.50%	2.27%	-1.71%	-1.50%	2.27%	-1.71%						
2025	2,128	35,469	37,597	2,240	37,336	39,576	2,352	39,203	41,554	0.85%	0.91%	0.93%	0.85%	0.91%	0.93%	0.85%	0.91%	0.93%	0.85%	0.91%	0.93%	0.85%	0.91%	0.93%	0.85%	0.91%	0.93%	0.85%	0.91%						
2026	2,162	36,721	38,883	2,276	38,654	40,929	2,389	40,586	42,976	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%	1.60%	3.52%	3.42%					
2027	2,199	37,031	39,229	2,314	38,980	41,294	2,430	40,929	43,359	1.70%	0.84%	0.89%	1.70%	0.84%	0.89%	1.70%	0.84%	0.89%	1.70%	0.84%	0.89%	1.70%	0.84%	0.89%	1.70%	0.84%	0.89%	1.70%	0.84%						
2028	2,239	37,353	39,592	2,356	39,319	41,675	2,474	41,285	43,759	1.82%	0.87%	0.92%	1.82%	0.87%	0.92%	1.82%	0.87%	0.92%	1.82%	0.87%	0.92%	1.82%	0.87%	0.92%	1.82%	0.87%	0.92%	1.82%	0.87%						
2029	2,289	37,649	39,938	2,409	39,631	42,040	2,530	41,612	44,142	2.24%	0.79%	0.88%	2.24%	0.79%	0.88%	2.24%	0.79%	0.88%	2.24%	0.79%	0.88%	2.24%	0.79%	0.88%	2.24%	0.79%	0.88%	2.24%	0.79%						
2030	2,323	36,970	39,293	2,445	38,916	41,361	2,568	40,861	43,429	1.50%	-1.80%	-1.62%	1.50%	-1.80%	-1.62%	1.50%	-1.80%	-1.62%	1.50%	-1.80%	-1.62%	1.50%	-1.80%	-1.62%	1.50%	-1.80%	-1.62%	1.50%	-1.80%						
2031	2,343	37,285	39,628	2,466	39,247	41,714	2,590	41,210	43,799	0.86%	0.85%	0.85%	0.86%	0.85%	0.85%	0.86%	0.85%	0.85%	0.86%	0.85%	0.85%	0.86%	0.85%	0.85%	0.86%	0.85%	0.85%	0.86%	0.85%						
2032	2,386	38,606	40,992	2,511	40,638	43,150	2,637	42,670	45,307	1.81%	3.54%	3.44%	1.81%	3.54%	3.44%	1.81%	3.54%	3.44%	1.81%	3.54%	3.44%	1.81%	3.54%	3.44%	1.81%	3.54%	3.44%	1.81%	3.54%						
2033	2,425	38,913	41,338	2,552	40,961	43,514	2,680	43,009	45,689	1.65%	0.79%	0.84%	1.65%	0.79%	0.84%	1.65%	0.79%	0.84%	1.65%	0.79%	0.84%	1.65%	0.79%	0.84%	1.65%	0.79%	0.84%	1.65%	0.79%						
2034	2,463	39,220	41,683	2,593	41,285	43,877	2,722	43,349	46,071	1.57%	0.79%	0.84%	1.57%	0.79%	0.84%	1.57%	0.79%	0.84%	1.57%	0.79%	0.84%	1.57%	0.79%	0.84%	1.57%	0.79%	0.84%	1.57%	0.79%						
2035	2,518	39,511	42,029	2,650	41,590	44,241	2,783	43,670	46,453	2.23%	0.74%	0.83%	2.23%	0.74%	0.83%	2.23%	0.74%	0.83%	2.23%	0.74%	0.83%	2.23%	0.74%	0.83%	2.23%	0.74%	0.83%	2.23%	0.74%						
2036	2,543	38,789	41,333	2,677	40,831	43,508	2,811	42,873	45,683	1.00%	-1.83%	-1.66%	1.00%	-1.83%	-1.66%	1.00%	-1.83%	-1.66%	1.00%	-1.83%	-1.66%	1.00%	-1.83%	-1.66%	1.00%	-1.83%	-1.66%	1.00%	-1.83%						
2037	2,583	40,151	42,735	2,719	42,265	44,984	2,855	44,477	47,233	1.58%	3.51%	3.39%	1.58%	3.51%	3.39%	1.58%	3.51%	3.39%	1.58%	3.51%	3.39%	1.58%	3.51%	3.39%	1.58%	3.51%	3.39%	1.58%	3.51%						
2038	2,625	40,455	43,080	2,763	42,584	45,347	2,901	44,713	47,614	1.61%	0.76%	0.81%	1.61%																						

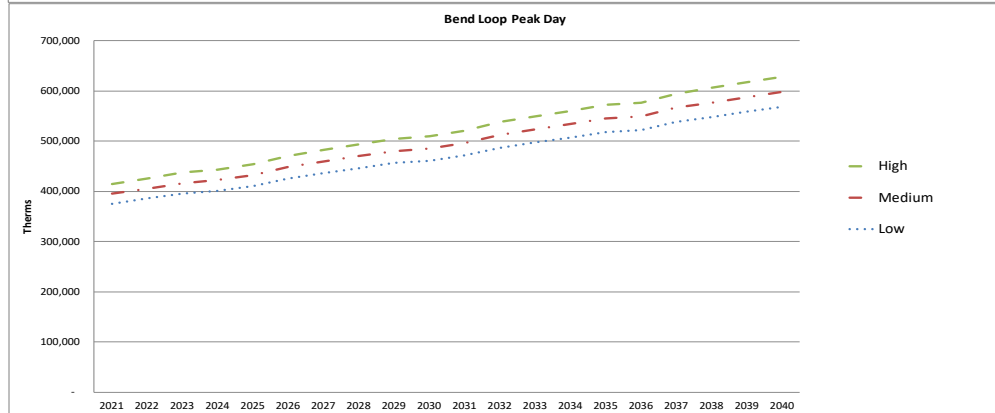
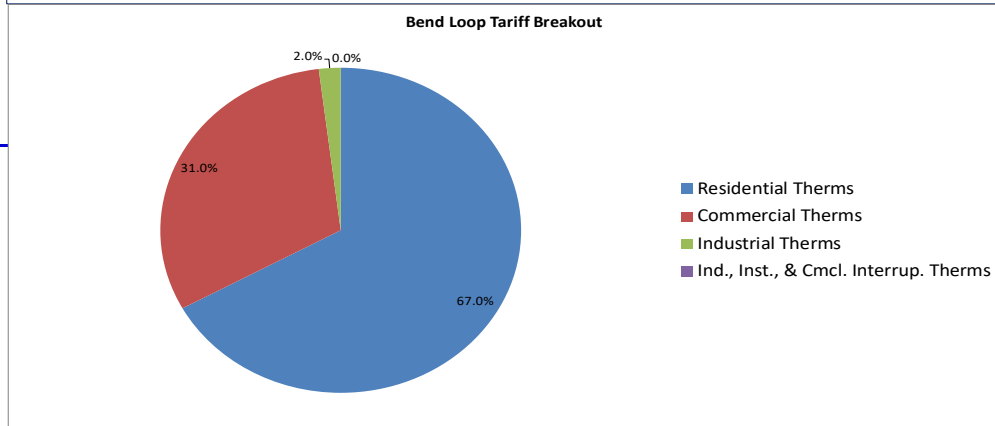
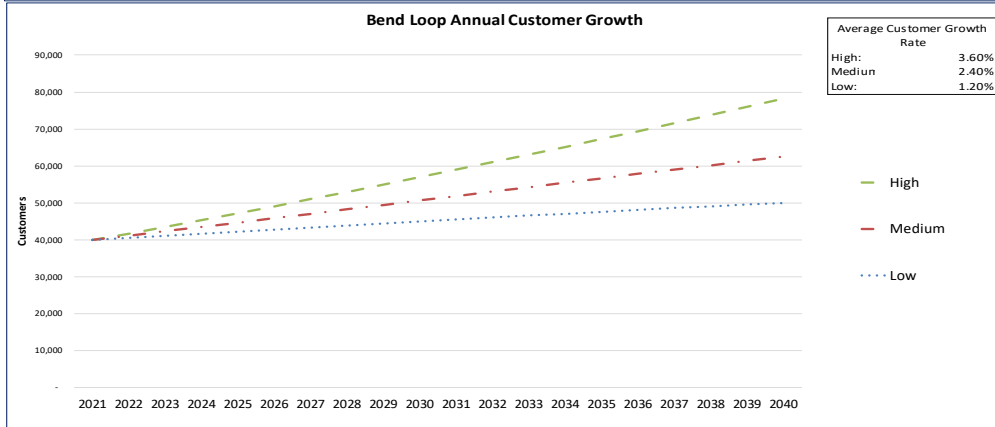
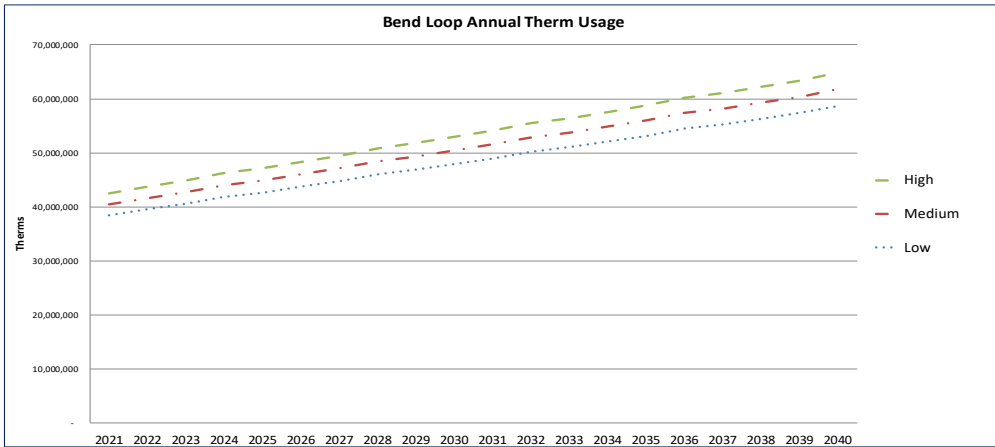


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Bend Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	27,117,248	11,378,360	38,495,608	29,163,160	11,358,533	40,521,693	34,894,263	7,653,514	42,547,777	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	27,847,521	11,700,130	39,547,651	29,947,121	11,684,092	41,631,212	35,776,209	7,936,564	43,712,773	2.69%	2.85%	2.74%	2.69%	2.87%	2.74%	2.53%	3.70%
2023	28,590,124	12,001,718	40,591,842	30,744,301	11,983,954	42,728,255	36,682,775	8,181,891	44,864,666	2.67%	2.56%	2.64%	2.66%	2.57%	2.64%	2.33%	3.09%
2024	29,551,523	12,303,215	41,854,737	31,771,784	12,285,834	44,057,618	37,871,670	8,388,828	46,260,498	3.36%	2.51%	3.11%	3.34%	2.52%	3.11%	3.24%	2.53%
2025	30,121,047	12,566,866	42,687,913	32,388,524	12,546,120	44,934,644	38,589,483	8,591,896	47,181,378	1.93%	2.51%	1.99%	1.94%	2.12%	1.99%	1.90%	2.42%
2026	30,866,328	12,867,165	43,733,493	33,190,281	12,844,974	46,035,255	39,501,661	8,835,358	48,337,019	2.47%	2.39%	2.45%	2.48%	2.38%	2.45%	2.36%	2.83%
2027	31,590,694	13,188,846	44,779,540	33,968,132	13,168,229	47,136,361	40,370,616	9,122,562	49,493,177	2.35%	2.50%	2.39%	2.34%	2.52%	2.39%	2.20%	3.25%
2028	32,530,853	13,521,569	46,052,422	34,975,415	13,500,820	48,476,235	41,486,155	9,418,894	50,900,049	2.98%	2.52%	2.84%	2.97%	2.53%	2.84%	2.76%	3.19%
2029	33,037,938	13,838,484	46,876,422	35,524,181	13,819,422	49,343,603	42,150,944	9,659,839	51,810,782	1.56%	2.34%	1.79%	1.57%	2.36%	1.79%	1.60%	2.61%
2030	33,811,318	14,112,601	47,923,919	36,352,494	14,093,738	50,446,231	43,109,848	9,858,693	52,968,542	2.34%	1.98%	2.23%	2.33%	1.99%	2.23%	2.07%	2.23%
2031	34,600,702	14,370,016	48,970,718	37,201,084	14,348,092	51,549,176	44,071,337	10,055,297	54,126,634	2.33%	1.83%	2.19%	2.33%	1.80%	2.19%	2.23%	1.99%
2032	35,569,243	14,708,702	50,277,945	38,240,076	14,684,078	52,924,154	45,219,834	10,350,528	55,570,362	2.80%	2.35%	2.67%	2.79%	2.34%	2.67%	2.61%	2.94%
2033	36,029,604	15,036,470	51,066,074	38,740,154	15,013,607	53,753,761	45,795,320	10,646,130	56,441,450	1.29%	2.23%	1.57%	1.31%	2.24%	1.57%	1.27%	2.86%
2034	36,776,604	15,337,587	52,114,192	39,542,389	15,314,655	54,857,044	46,707,585	10,892,312	57,599,897	2.07%	2.00%	2.05%	2.07%	2.01%	2.05%	1.99%	2.31%
2035	37,512,298	15,656,227	53,168,525	40,331,657	15,635,210	55,966,867	47,626,614	11,138,596	58,765,210	2.00%	2.08%	2.02%	2.09%	2.09%	2.02%	1.97%	2.26%
2036	38,608,596	15,888,817	54,497,413	41,504,127	15,861,571	57,365,698	48,955,573	11,278,409	60,233,982	2.92%	1.49%	2.50%	2.91%	1.45%	2.50%	2.79%	1.20%
2037	39,050,514	16,190,363	55,270,876	42,018,811	16,161,058	58,179,869	49,566,538	11,522,327	61,088,865	1.22%	1.90%	1.42%	1.24%	1.89%	1.42%	1.25%	2.16%
2038	39,798,928	16,521,815	56,320,743	42,790,620	16,494,368	59,284,989	50,426,317	11,822,923	62,249,240	1.84%	2.05%	1.90%	1.84%	2.06%	1.90%	1.73%	2.61%
2039	40,509,749	16,855,062	57,364,810	43,554,471	16,829,536	60,384,007	51,277,202	12,126,004	63,403,206	1.79%	2.02%	1.85%	1.79%	2.03%	1.85%	1.69%	2.56%
2040	41,530,486	17,186,582	58,717,068	44,646,471	17,160,971	61,807,442	52,523,033	12,374,781	64,897,814	2.52%	1.97%	2.36%	2.51%	1.97%	2.36%	2.43%	2.05%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	31,174	344,032	375,206	31,119	363,834	394,954	20,969	393,733	414,701	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	32,061	353,267	385,328	32,011	373,597	405,608	21,744	404,145	425,889	2.85%	2.68%	2.70%	2.87%	2.68%	2.70%	3.70%	2.64%
2023	32,881	362,545	395,427	32,833	383,406	416,239	22,416	414,635	437,051	2.56%	2.63%	2.62%	2.57%	2.63%	2.60%	2.60%	2.60%
2024	33,707	371,791	405,500	33,660	393,560	427,122	23,100	425,287	448,377	2.51%	1.32%	1.42%	2.52%	1.33%	1.42%	2.53%	1.36%
2025	34,580	381,062	415,642	34,533	403,824	437,357	23,839	435,793	459,612	2.14%	2.53%	2.53%	2.12%	2.53%	2.50%	2.43%	2.50%
2026	35,253	390,647	425,899	35,192	413,123	448,315	24,206	446,524	470,731	2.39%	1.72%	1.83%	2.72%	1.38%	1.72%	1.83%	3.65%
2027	36,134	399,898	436,032	36,077	422,904	458,981	24,993	456,397	481,930	2.50%	2.37%	2.38%	2.52%	2.37%	2.38%	3.25%	2.33%
2028	37,045	409,238	446,284	36,989	432,784	469,772	25,791	467,469	493,261	2.52%	2.34%	2.35%	2.53%	2.34%	2.35%	3.19%	2.35%
2029	37,914	418,514	456,427	37,861	442,588	480,450	26,465	478,007	504,472	2.34%	2.27%	2.27%	2.36%	2.27%	2.27%	2.61%	2.25%
2030	38,665	427,633	461,297	38,613	446,963	485,576	27,010	482,845	509,855	1.98%	0.98%	1.07%	1.99%	0.99%	1.07%	2.06%	1.01%
2031	39,373	431,958	471,330	39,310	456,828	496,137	27,549	493,396	520,944	1.83%	2.21%	2.18%	1.80%	2.21%	2.17%	1.99%	2.19%
2032	40,298	446,696	486,994	40,230	472,395	512,625	28,358	509,899	538,256	2.35%	3.41%	3.32%	2.34%	3.41%	3.24%	3.94%	3.34%
2033	41,196	455,951	497,147	41,133	482,179	523,312	29,167	520,311	549,478	2.23%	2.07%	2.08%	2.24%	2.07%	2.08%	2.86%	2.04%
2034	42,021	465,279	507,300	41,958	492,042	534,000	29,842	530,858	560,700	2.00%	2.05%	2.04%	2.01%	2.05%	2.04%	2.31%	2.03%
2035	42,894	474,560	517,454	42,836	501,852	544,689	30,517	541,406	571,923	2.08%	1.99%	2.06%	2.09%	1.99%	2.06%	2.61%	1.99%
2036	43,531	478,247	521,778	43,456	505,783	549,240	30,900	545,802	576,702	1.49%	0.78%	0.84%	1.45%	0.78%	0.84%	1.26%	0.81%
2037	44,357	493,548	537,905	44,277	521,939	566,216	31,568	562,958	594,526	1.90%	3.20%	3.09%	1.89%	3.19%	3.09%	3.12%	3.14%
2038	45,265	502,805	548,070	45,190	531,726	576,916	32,392	573,370	605,762	2.05%	1.88%	1.89%	2.06%	1.88%	1.89%	2.61%	1.85%
2039	46,178	512,060	558,238	46,108	541,511	587,619	33,222	583,778	617,000	2.02%	1.84%	1.86%	2.03%	1.84%	1.86%	2.56%	1.82%
2040	47,087	521,462	568,549	47,016	551,456	598,472	33,904	594,492	628,396	1.97%	1.84%	1.85%	1.97%	1.84%	1.85%	2.05%	1.84%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	25,769,332	12,726,276	38,495,608	27,125,613	13,396,080	40,521,693	28,841,892	14,065,885	42,547,777	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	26,594,585	12,956,607	39,549,651	27,994,299	13,636,913	41,631,212	29,394,014	14,318,759	43,712,773	3.20%	1.80%	2.74%	3.20%	1.80%	2.74%	3.00%	1.80%
2023	27,418,070	13,173,772	40,591,842	28,861,126	13,867,129	42,728,255	30,304,181	14,560,486	44,864,666	3.10%	1.69%	2.64%	3.10%	1.69%	2.64%	3.10%	1.69%
2024	28,392,931	13,461,806	41,854,737	29,887,296	14,170,322	44,057,618	31,381,866	14,826,838	46,260,498	3.56%	2.19%	3.11%	3.56%	2.19%	3.11%	3.56%	2.19%
2025	29,073,136	13,614,777	42,687,913	30,603,300	14,331,344	44,934,644	32,133,467	15,047,911	47,181,378	2.40%	1.14%	1.99%	2.40%	1.14%	1.99%	2.40%	1.14%
2026	29,898,605	13,834,886	43,733,493	31,472,216	14,560,040	46,035,255	33,045,838	15,291,191	48,337,019	2.84%	1.62%	2.45%	2.84%	1.62%	2.45%	2.84%	1.62%
2027	30,724,327	14,055,213	44,779,540	32,341,399	14,794,962	47,136,361	33,958,469	15,534,709	49,493,177	2.76%	1.59%	2.39%	2.76%	1.59%	2.39%	2.76%	1.59%
2028	31,707,992	14,344,431	46,052,422	33,376,834	15,099,401	48,476,235	35,045,677	15,854,372	50,900,049	3.20%	2.06%	2.84%	3.20%	2.06%	2.84%	3.20%	2.06%
2029	32,379,192	14,497,230	46,876,422	34,083,361	15,260,242	49,343,603	35,787,528	16,023,254	51,810,782	2.12%	1.07%	1.79%	2.12%	1.07%	1.79%	2.12%	1.07%
2030	33,205,698	14,718,220	47,923,919	34,953,368	15,492,863	50,446,231	36,701,035	16,267,507	52,968,542	2.55%	1.52%	2.23%	2.55%	1.52%	2.23%	2.55%	1.52%
2031	34,032,369	14,939,349	48,971,718	35,823,546	15,725,630	51,549,176	37,614,722	16,511,912	54,126,634	2.49%	1.50%	2.19%	2.49%	1.50%	2.19%	2.49%	1.50%
2032	35,041,085	15,236,859	50,277,945	36,855,355	16,038,800	52,924,154	38,729,622	16,840,740	55,570,362	2.96%	1.99%	2.67%	2.96%	1.99%	2.67%	2.96%	1.99%
2033	35,685,025	15,381,049	51,066,074	37,563,183	16,190,578	53,753,761	39,441,343	17,000,107	56,441,450	1.84%	0.95%	1.57%	1.84%	0.95%	1.57%	1.84%	0.95%
2034	36,511,810	15,602,382	52,114,192	38,433,485	16,423,560	54,857,044	40,355,159	17,244,737	57,599,897	2.32%	1.44%	2.05%	2.32%	1.44%	2.05%	2.32%	1.44%
2035	37,342,915	15,825,610	53,1														

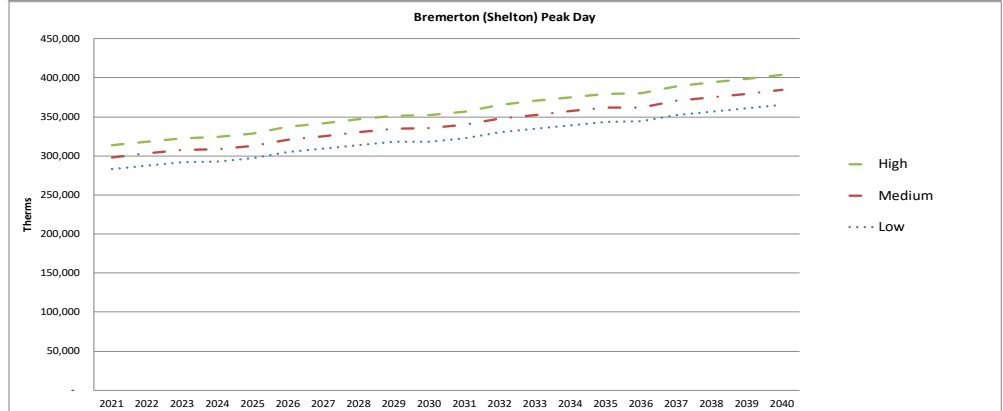
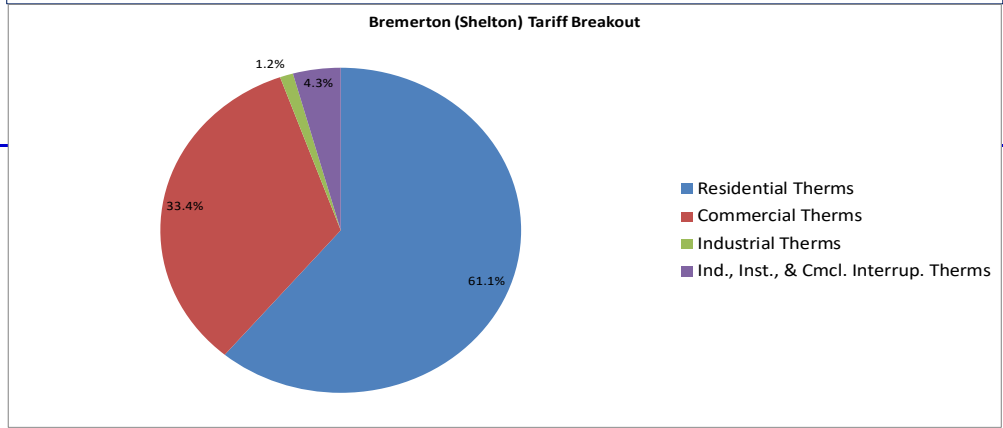
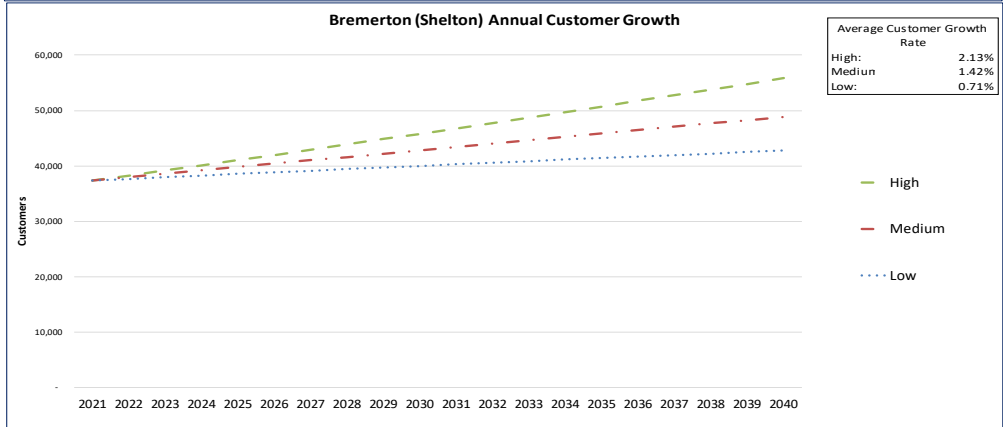
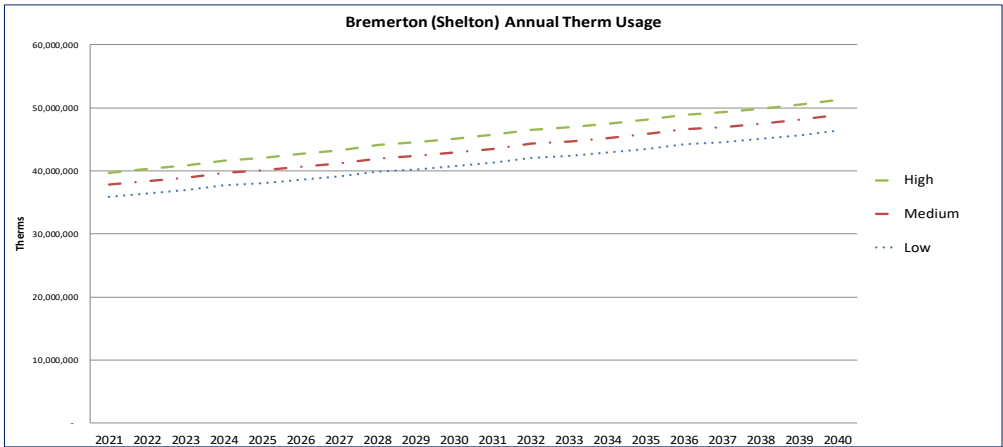


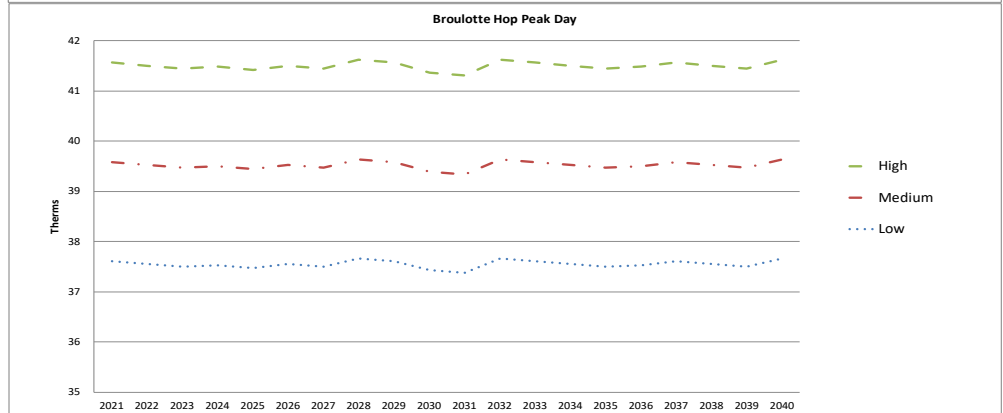
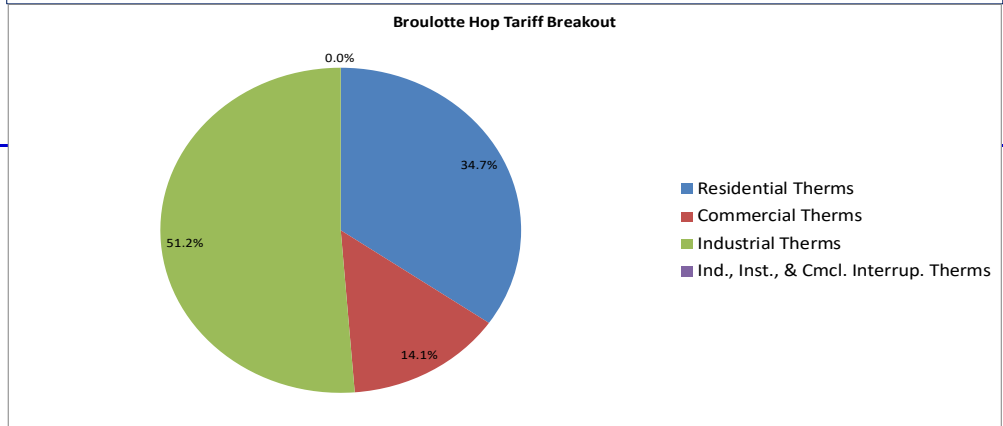
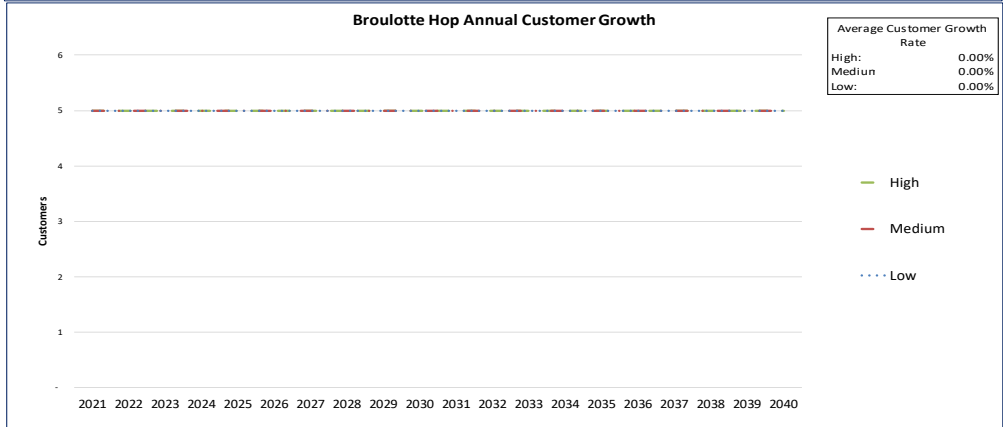
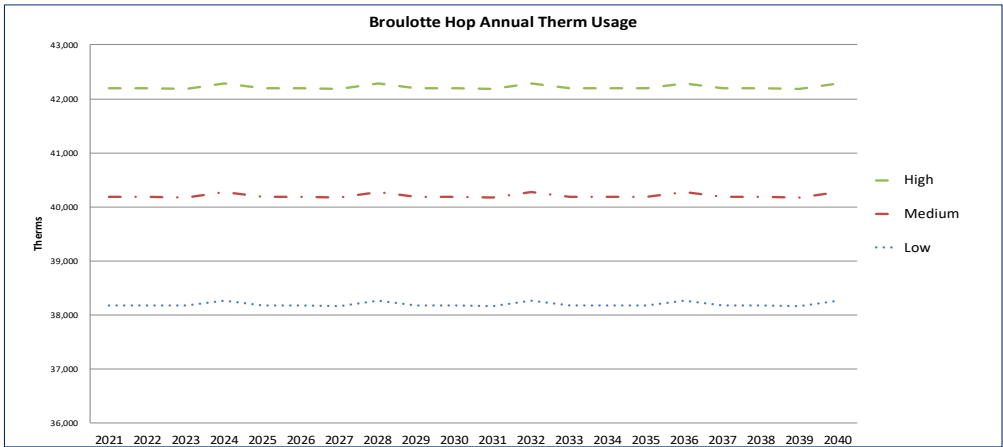
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Bremerton (Shelton)																								
Annual Requirements (Therms)															Annual Change									
Low					Medium					High					Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	24,486,943	11,437,272	35,924,215	25,775,730	12,039,233	37,814,963	27,064,514	12,641,198	39,705,712	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	24,844,710	11,621,936	36,466,646	26,152,325	12,233,619	38,385,943	27,459,939	12,845,301	40,305,240	1.46%	1.61%	1.51%	1.46%	1.61%	1.51%	1.46%	1.61%	1.46%	1.61%	1.51%	1.46%	1.61%	1.51%	
2023	25,215,360	11,793,347	37,008,707	26,542,487	12,414,047	38,956,534	27,866,534	13,034,750	40,904,361	1.47%	1.61%	1.49%	1.47%	1.61%	1.49%	1.47%	1.61%	1.49%	1.47%	1.61%	1.49%	1.47%	1.61%	
2024	25,758,837	11,956,457	37,715,294	27,114,565	12,585,744	39,700,309	28,470,295	13,215,031	41,685,325	2.16%	1.38%	1.91%	2.16%	1.38%	1.91%	2.16%	1.38%	1.91%	2.16%	1.38%	1.91%	2.16%	1.38%	
2025	25,996,648	12,101,725	38,098,373	27,364,891	12,738,659	40,103,550	28,733,135	13,375,593	42,108,728	0.92%	1.21%	1.02%	0.92%	1.21%	1.02%	0.92%	1.21%	1.02%	0.92%	1.21%	1.02%	0.92%	1.21%	
2026	26,367,722	12,272,739	38,640,460	27,755,495	12,918,674	40,674,169	29,143,272	13,564,606	42,707,877	1.43%	1.41%	1.42%	1.43%	1.41%	1.42%	1.43%	1.41%	1.42%	1.43%	1.41%	1.42%	1.43%	1.41%	
2027	26,725,449	12,457,101	39,182,550	28,132,053	13,112,736	41,244,788	29,538,625	13,768,374	43,307,028	1.36%	1.50%	1.40%	1.36%	1.50%	1.40%	1.36%	1.50%	1.40%	1.36%	1.50%	1.40%	1.36%	1.50%	
2028	27,255,240	12,632,971	39,888,211	28,689,727	13,297,864	41,987,591	30,124,214	13,962,758	44,086,972	1.98%	1.41%	1.80%	1.98%	1.41%	1.80%	1.98%	1.41%	1.80%	1.98%	1.41%	1.80%	1.98%	1.41%	
2029	27,450,836	12,818,076	40,268,912	28,895,618	13,492,711	42,388,328	30,340,980	14,167,346	44,507,744	0.72%	1.47%	0.95%	0.72%	1.47%	0.95%	0.72%	1.47%	0.95%	0.72%	1.47%	0.95%	0.72%	1.47%	
2030	27,834,963	12,976,038	40,811,001	29,299,960	13,658,987	42,958,947	30,764,960	14,341,935	45,106,895	1.40%	1.23%	1.35%	1.40%	1.23%	1.35%	1.40%	1.23%	1.35%	1.40%	1.23%	1.35%	1.40%	1.23%	
2031	28,233,477	13,119,612	41,353,089	29,719,453	13,810,114	43,529,567	31,205,421	14,500,624	45,706,045	1.43%	1.11%	1.33%	1.43%	1.11%	1.33%	1.43%	1.11%	1.33%	1.43%	1.11%	1.33%	1.43%	1.11%	
2032	28,779,358	13,295,637	42,074,995	30,294,062	13,995,404	44,289,467	31,808,766	14,695,177	46,503,942	1.93%	1.34%	1.75%	1.93%	1.34%	1.75%	1.93%	1.34%	1.75%	1.93%	1.34%	1.75%	1.93%	1.34%	
2033	28,954,876	13,480,943	42,435,819	30,478,816	14,190,464	44,669,280	32,002,759	14,899,988	46,902,747	0.61%	1.39%	0.86%	0.61%	1.39%	0.86%	0.61%	1.39%	0.86%	0.61%	1.39%	0.86%	0.61%	1.39%	
2034	29,325,338	13,652,474	42,977,812	30,868,777	14,371,025	45,239,802	32,412,216	15,089,576	47,501,792	1.28%	1.27%	1.28%	1.28%	1.27%	1.28%	1.28%	1.27%	1.28%	1.28%	1.27%	1.28%	1.28%	1.27%	
2035	29,684,380	13,839,248	43,523,628	31,246,712	14,567,634	45,814,346	32,809,051	15,296,013	48,105,664	1.22%	1.46%	1.22%	1.22%	1.46%	1.22%	1.22%	1.46%	1.22%	1.22%	1.46%	1.22%	1.22%	1.46%	
2036	30,297,741	13,957,056	44,254,797	31,892,364	14,691,635	46,583,999	33,486,977	15,426,222	48,913,199	2.07%	0.85%	1.68%	2.07%	0.85%	1.68%	2.07%	0.85%	1.68%	2.07%	0.85%	1.68%	2.07%	0.85%	
2037	30,481,886	14,128,199	44,610,085	32,086,197	14,871,788	46,957,985	33,690,509	15,615,374	49,305,883	0.61%	1.23%	0.80%	0.61%	1.23%	0.80%	0.61%	1.23%	0.80%	0.61%	1.23%	0.80%	0.61%	1.23%	
2038	30,837,764	14,314,410	45,152,174	32,460,805	15,067,799	47,528,604	34,083,847	15,821,188	49,905,035	1.17%	1.32%	1.22%	1.17%	1.32%	1.22%	1.17%	1.32%	1.22%	1.17%	1.32%	1.22%	1.17%	1.32%	
2039	31,189,129	14,501,121	45,690,250	32,830,664	15,264,337	48,095,001	34,472,198	16,027,553	50,499,752	1.14%	1.30%	1.19%	1.14%	1.30%	1.19%	1.14%	1.30%	1.19%	1.14%	1.30%	1.19%	1.14%	1.30%	
2040	31,751,641	14,678,947	46,430,588	33,422,778	15,451,525	48,874,303	35,093,919	16,224,100	51,318,019	1.80%	1.23%	1.62%	1.80%	1.23%	1.62%	1.80%	1.23%	1.62%	1.80%	1.23%	1.62%	1.80%	1.23%	

Peak Day - BaseLoad															Annual Change									
Low					Medium					High					Low			Medium			High			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	31,335	252,114	283,449	32,984	265,383	298,367	34,633	278,652	313,286	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	32,811	255,857	287,668	33,517	269,323	302,840	35,193	282,790	317,982	1.61%	1.48%	1.50%	1.61%	1.48%	1.50%	1.61%	1.48%	1.50%	1.61%	1.48%	1.50%	1.61%		
2023	33,211	259,634	291,945	34,011	273,299	307,310	35,712	286,964	322,676	1.47%	1.48%	1.48%	1.47%	1.48%	1.48%	1.47%	1.48%	1.48%	1.47%	1.48%	1.48%	1.47%	1.48%	
2024	32,757	260,311	293,069	34,481	274,012	308,493	36,206	287,712	323,918	1.38%	0.26%	0.38%	1.38%	0.26%	0.38%	1.38%	0.26%	0.38%	1.38%	0.26%	0.38%	1.38%		
2025	33,155	261,113	297,269	34,900	278,014	312,914	36,645	292,215	328,860	1.24%	1.46%	1.24%	1.24%	1.46%	1.24%	1.24%	1.46%	1.24%	1.24%	1.46%	1.24%	1.24%	1.46%	
2026	33,624	271,236	304,860	35,394	285,511	320,905	37,163	299,787	338,950	1.41%	0.70%	2.55%	1.41%	0.70%	2.55%	1.41%	0.70%	2.55%	1.41%	0.70%	2.55%	1.41%	0.70%	
2027	34,129	274,975	309,104	35,925	289,447	325,373	37,722	303,920	341,641	1.50%	1.38%	1.39%	1.50%	1.38%	1.39%	1.50%	1.38%	1.39%	1.50%	1.38%	1.39%	1.50%		
2028	34,611	278,921	313,532	36,433	293,601	330,033	38,254	308,281	346,535	1.41%	1.43%	1.43%	1.41%	1.43%	1.43%	1.41%	1.43%	1.43%	1.41%	1.43%	1.43%	1.41%	1.43%	
2029	35,118	282,659	317,777	36,966	297,536	334,502	38,815	312,413	351,228	1.47%	1.34%	1.35%	1.47%	1.34%	1.35%	1.47%	1.34%	1.35%	1.47%	1.34%	1.35%	1.47%		
2030	35,551	282,888	318,439	37,422	297,777	335,199	39,293	312,616	351,959	1.23%	0.08%	0.21%	1.23%	0.08%	0.21%	1.23%	0.08%	0.21%	1.23%	0.08%	0.21%	1.23%		
2031	35,944	286,690	322,634	37,836	301,779	339,615	39,728	316,867	356,959	1.11%	1.34%	1.32%	1.11%	1.34%	1.32%	1.11%	1.34%	1.32%	1.11%	1.34%	1.32%	1.11%		
2032	36,426	294,271	330,697	38,344	309,759	348,103	40,261	323,367	365,508	1.34%	2.64%	2.50%	1.34%	2.64%	2.50%	1.34%	2.64%	2.50%	1.34%	2.64%	2.50%	1.34%		
2033	36,834	298,007	334,941	38,778	313,691	352,569	40,822	329,376	370,198	1.39%	1.27%	1.28%	1.39%	1.27%	1.28%	1.39%	1.27%	1.28%	1.39%	1.27%	1.28%	1.39%		
2034	37,404	301,779	339,183	39,373	317,662	357,035	41,341	333,545	374,886	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%		
2035	37,916	305,507	343,423	39,911	321,586	361,498	41,907	337,666	379,573	1.37%	1.24%	1.25%	1.37%	1.24%	1.25%	1.37%	1.24%	1.25%	1.37%	1.24%	1.25%	1.37%		
2036	38,239	305,577	343,996	40,251	321,850	362,101	42,264	337,942	380,206	0.85%	0.08%	0.17%	0.85%	0.08%	0.17%	0.85%	0.08%	0.17%	0.85%	0.08%	0.17%	0.85%		
2037	38,707	313,397	352,105	40,745	329,892	370,637	42,782	346,386	389,168	1.23%	2.50%	2.36%	1.23%	2.50%	2.36%	1.23%	2.50%	2.36%	1.23%	2.50%	2.36%	1.23%		
2038	39,218	317,127	356,344	41,282	333,818	375,099	43,346	350,509	393,854	1.32%	1.19%	1.20%	1.32%	1.19%	1.20%	1.32%	1.19%	1.20%	1.32%	1.19%	1.20%	1.32%		
2039	39,729	320,853	360,582	41,820	337,740	379,560	43,911	354,627	398,538	1.30%	1.18%	1.19%	1.30%	1.18%	1.19%	1.30%	1.18%	1.19%	1.30%	1.18%	1.19%	1.30%		
2040	40,216	324,813	365,029	42,333	341,908	384,241	44,450	359,004	403,543	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	

Therms Usage by Class															Annual Change									
Low					Medium					High					Low			Medium			High			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind											



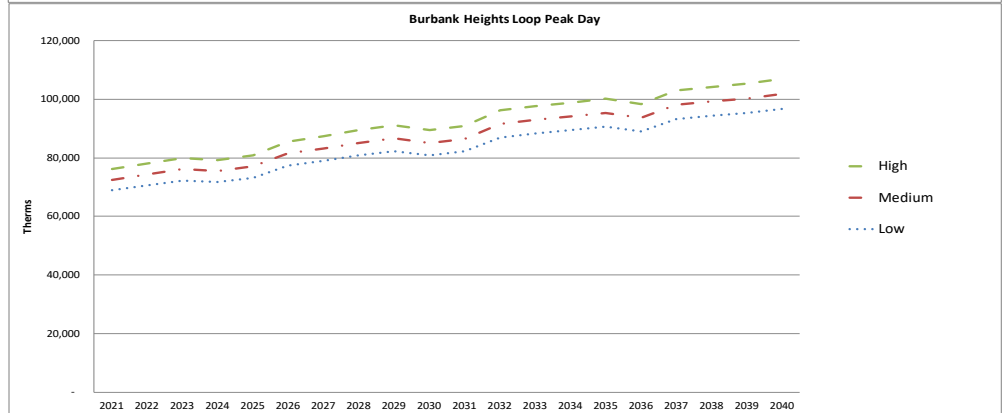
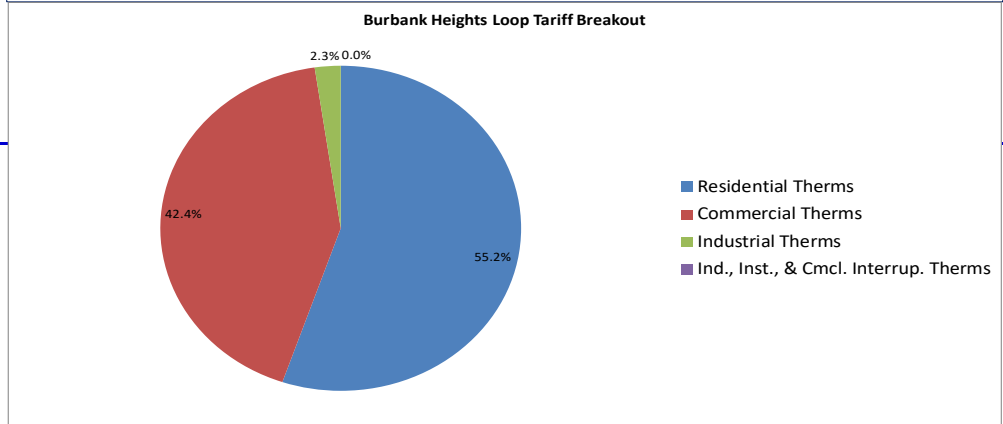
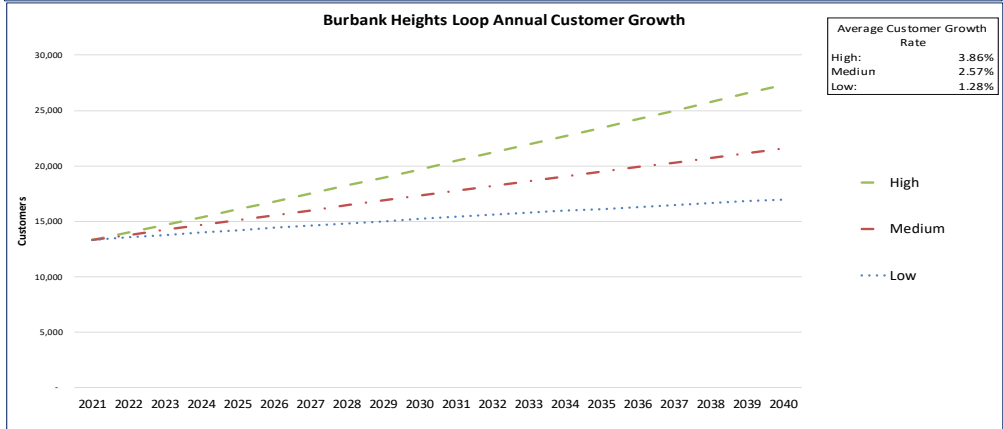
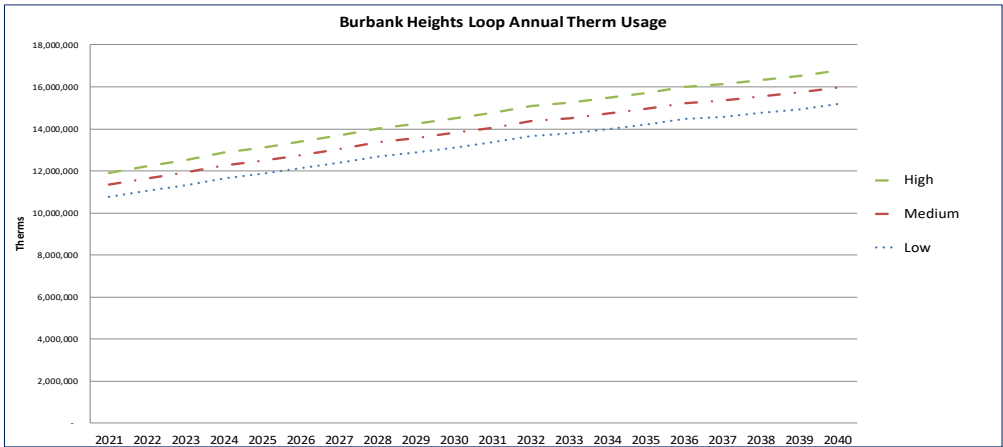


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Burbank Heights Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	7,721,150	3,054,905	10,776,055	8,127,527	3,215,689	11,343,216	8,533,903	3,376,474	11,910,377	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	7,937,384	3,128,629	11,066,013	8,355,141	3,292,914	11,648,056	8,772,898	3,457,560	12,230,459	2.80%	2.40%	2.69%	2.80%	2.40%	2.69%	2.80%	2.40%
2023	8,315,724	3,015,544	11,331,268	8,753,394	3,174,257	11,927,651	9,191,063	3,332,970	12,524,033	4.77%	-3.60%	2.40%	4.77%	-3.60%	2.40%	4.77%	-3.60%
2024	8,619,616	3,035,754	11,655,371	9,073,280	3,195,531	12,268,811	9,526,944	3,355,308	12,882,252	3.65%	0.67%	2.86%	3.65%	0.67%	2.86%	3.65%	0.67%
2025	8,503,769	3,355,718	11,859,488	8,951,336	3,532,335	12,483,671	9,398,903	3,780,681	13,179,585	-1.34%	1.75%	-1.34%	1.75%	-1.34%	1.75%	1.75%	1.75%
2026	8,704,824	3,420,616	12,125,440	9,162,973	3,600,648	12,763,621	9,621,122	3,780,681	13,401,803	2.36%	1.93%	2.24%	2.36%	1.93%	2.24%	2.36%	1.93%
2027	8,899,731	3,482,771	12,382,502	9,368,138	3,666,075	13,034,213	9,836,545	3,849,379	13,685,923	2.24%	1.82%	2.24%	2.24%	1.82%	2.24%	2.24%	1.82%
2028	9,288,585	3,400,997	12,689,582	9,777,458	3,579,996	13,357,455	10,266,331	3,758,966	14,025,327	4.37%	-2.35%	2.48%	4.37%	-2.35%	2.48%	4.37%	-2.35%
2029	9,351,933	3,526,613	12,878,546	9,844,141	3,712,224	13,556,364	10,336,347	3,897,835	14,234,183	0.68%	3.69%	1.49%	0.68%	3.69%	1.49%	0.68%	3.69%
2030	9,730,565	3,389,749	13,120,314	10,242,700	3,568,157	13,810,857	10,754,835	3,746,565	14,501,400	4.05%	-3.88%	1.88%	4.05%	-3.88%	1.88%	4.05%	-3.88%
2031	9,605,373	3,749,687	13,355,060	10,110,919	3,947,039	14,057,957	10,616,465	4,144,390	14,760,856	-1.29%	10.62%	1.79%	-1.29%	10.62%	1.79%	-1.29%	10.62%
2032	9,806,806	3,840,820	13,647,625	10,322,954	4,042,968	14,365,921	10,839,101	4,245,116	15,084,217	2.10%	2.43%	2.19%	2.10%	2.43%	2.19%	2.10%	2.43%
2033	9,903,551	3,890,557	13,794,108	10,424,790	4,095,323	14,520,113	10,946,300	4,300,089	15,246,319	0.99%	1.29%	1.07%	0.99%	1.29%	1.07%	0.99%	1.29%
2034	10,279,536	3,720,447	13,999,983	10,820,565	3,916,260	14,736,825	11,361,593	4,112,073	15,473,666	3.80%	-4.37%	1.49%	3.80%	-4.37%	1.49%	3.80%	-4.37%
2035	10,346,144	3,856,741	14,202,885	10,890,677	4,061,833	14,952,510	11,435,211	4,264,925	15,700,136	0.65%	3.72%	1.46%	0.65%	3.72%	1.46%	0.65%	3.72%
2036	10,405,870	4,064,675	14,470,545	10,953,546	4,278,605	15,232,151	11,501,234	4,499,535	15,993,659	0.58%	5.34%	1.87%	0.58%	5.34%	1.87%	0.58%	5.34%
2037	10,481,186	4,105,103	14,586,289	11,032,827	4,321,161	15,353,988	11,584,468	4,537,219	16,121,687	0.72%	0.99%	0.80%	0.72%	0.99%	0.80%	0.72%	0.99%
2038	10,624,719	4,143,758	14,768,477	11,183,915	4,361,850	15,545,765	11,743,110	4,579,943	16,323,053	1.37%	0.94%	1.25%	1.37%	0.94%	1.25%	1.37%	0.94%
2039	10,759,326	4,179,974	14,939,300	11,325,606	4,399,973	15,725,579	11,891,887	4,619,971	16,511,858	1.27%	0.87%	1.16%	1.27%	0.87%	1.16%	1.27%	0.87%
2040	11,245,249	3,937,842	15,183,091	11,837,104	4,145,097	15,982,202	12,428,960	4,352,352	16,781,312	4.52%	-5.79%	1.63%	4.52%	-5.79%	1.63%	4.52%	-5.79%

Peak Day - Baseload									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	8,370	60,547	68,917	8,810	63,734	72,544	9,251	66,921	76,171	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	8,571	62,113	70,684	9,022	65,382	74,404	9,473	68,651	78,124	2.40%	2.59%	2.56%	2.40%	2.59%	2.56%	2.40%	2.59%
2023	8,262	64,014	72,276	8,697	67,383	76,079	9,131	70,752	79,883	-3.60%	3.06%	2.25%	-3.60%	3.06%	2.25%	-3.60%	3.06%
2024	8,317	63,412	71,729	8,755	66,749	75,504	9,193	70,087	79,279	0.67%	-0.94%	0.67%	0.67%	-0.94%	0.67%	0.67%	-0.94%
2025	8,194	64,949	73,143	8,678	67,420	76,098	9,152	70,791	80,253	-1.00%	1.10%	1.00%	-1.00%	1.10%	1.00%	-1.00%	1.10%
2026	9,372	68,069	77,441	9,865	71,652	81,516	10,358	75,234	85,592	1.93%	6.28%	5.73%	1.93%	6.28%	5.73%	1.93%	6.28%
2027	9,542	69,425	78,967	10,044	73,079	83,123	10,546	76,733	87,279	1.82%	1.99%	1.97%	1.82%	1.99%	1.97%	1.82%	1.99%
2028	9,318	71,595	80,913	9,808	75,363	85,171	10,299	79,131	89,739	-2.35%	3.13%	2.46%	-2.35%	3.13%	2.46%	-2.35%	3.13%
2029	9,662	72,713	82,375	10,170	76,540	86,710	10,679	80,367	91,046	3.69%	1.56%	1.81%	3.69%	1.56%	1.81%	3.69%	1.56%
2030	9,287	71,626	80,913	9,776	75,396	85,171	10,265	79,131	89,430	-3.88%	-1.49%	-1.77%	-3.88%	-1.49%	-1.77%	-3.88%	-1.49%
2031	10,273	71,961	82,234	10,814	75,749	86,562	11,354	79,536	90,891	10.62%	0.47%	1.63%	10.62%	0.47%	1.63%	10.62%	0.47%
2032	10,523	76,466	86,988	11,077	80,490	91,567	11,630	84,515	96,145	2.43%	6.26%	5.78%	2.43%	6.26%	5.78%	2.43%	6.26%
2033	10,659	77,594	88,253	11,220	81,678	92,898	11,781	85,762	97,543	1.29%	1.48%	1.45%	1.29%	1.48%	1.45%	1.29%	1.48%
2034	10,193	79,245	89,438	10,729	83,416	94,145	11,266	87,587	98,853	-4.37%	2.13%	1.34%	-4.37%	2.13%	1.34%	-4.37%	2.13%
2035	10,572	80,000	90,572	11,128	84,232	95,360	11,685	88,443	100,128	3.72%	0.98%	1.29%	3.72%	0.98%	1.29%	3.72%	0.98%
2036	11,136	77,936	89,072	11,722	82,038	93,760	12,308	86,139	98,448	5.34%	-2.60%	-1.68%	5.34%	-2.60%	-1.68%	5.34%	-2.60%
2037	11,247	82,056	93,303	11,829	86,375	98,214	12,431	90,694	103,125	0.99%	5.29%	4.75%	0.99%	5.29%	4.75%	0.99%	5.29%
2038	11,353	82,975	94,328	11,950	87,342	99,292	12,548	91,709	104,257	0.94%	1.12%	1.10%	0.94%	1.12%	1.10%	0.94%	1.12%
2039	11,452	83,844	95,296	12,055	88,257	100,312	12,657	92,670	105,328	0.87%	1.05%	1.03%	0.87%	1.05%	1.03%	0.87%	1.05%
2040	10,789	86,012	96,801	11,356	90,539	101,895	11,924	95,066	106,990	-5.79%	2.59%	1.58%	-5.79%	2.59%	1.58%	-5.79%	2.59%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	6,005,919	4,770,137	10,776,055	6,322,020	5,021,196	11,343,216	6,638,121	5,272,256	11,910,377	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,178,096	4,887,557	11,065,653	6,503,259	5,144,797	11,648,056	6,828,422	5,402,337	12,230,459	2.87%	2.46%	2.69%	2.87%	2.46%	2.69%	2.87%	2.46%
2023	6,334,716	4,996,553	11,331,268	6,668,122	5,259,529	11,927,651	7,001,528	5,522,505	12,524,033	2.54%	2.23%	2.40%	2.54%	2.23%	2.40%	2.54%	2.23%
2024	6,524,392	5,130,979	11,655,371	6,867,781	5,401,030	12,268,811	7,211,170	5,617,082	12,882,252	2.99%	2.69%	2.86%	2.99%	2.69%	2.86%	2.99%	2.69%
2025	6,645,728	5,213,759	11,859,488	6,995,503	5,488,168	12,483,671	7,345,279	5,762,576	13,107,855	1.86%	1.61%	1.75%	1.86%	1.61%	1.75%	1.86%	1.61%
2026	6,802,435	5,320,905	12,123,340	7,160,458	5,603,163	12,763,621	7,518,481	5,883,221	13,401,803	2.36%	2.10%	2.24%	2.36%	2.10%	2.24%	2.36%	2.10%
2027	6,953,401	5,429,101	12,382,502	7,319,369	5,714,843	13,034,213	7,685,338	6,000,586	13,685,923	2.22%	1.99%	2.22%	2.22%	1.99%	2.22%	2.22%	1.99%
2028	7,132,377	5,557,204	12,689,582	7,507,766	5,849,689	13,357,455	7,883,154	6,142,173	14,025,327	2.57%	3.26%	2.48%	2.57%	3.26%	2.48%	2.57%	3.26%
2029	7,243,676	5,634,870	12,878,546	7,624,922	5,931,442	13,556,364	8,006,168	6,228,014	14,234,183	1.56%	1.40%	1.49%	1.56%	1.40%	1.49%	1.56%	1.40%
2030	7,384,748	5,735,566	13,120,314	7,773,419	6,037,438	13,810,857	8,162,090	6,339,310	14,501,400	1.95%	1.79%	1.88%	1.95%	1.79%	1.88%	1.95%	1.79%
2031	7,521,271	5,833,788	13,355,060	7,917,128	6,140,830	14,057,957	8,312,985	6,447,871	14,760,856	1.85%	1.71%	1.79%	1.85%	1.71%	1.79%	1.85%	1.71%
2032	7,690,132	5,957,494	13,647,625	8,094,875	6,271,046	14,365,921	8,499,619	6,584,598	15,084,217	2.25%	2.12%	2.19%	2.25%	2.12%	2.19%	2.25%	2.12%
2033	7,774,986	6,019,121	13,794,108	8,184,196	6,335,917	14,520,113	8,593,406	6,652,713	15,246,319	1.10%	1.03%	1.07%	1.10%	1.03%	1.07%	1.10%	1.03%
2034	7,893,011	6,106,972	13,999,983	8,308,433	6,428,392	14,736,825	8,723,854	6,749,811	15,473,666	1.52%	1.46%	1.49%	1.52%	1.46%	1.49%	1.52%	1.46%
2035	8,010,063	6,194,822	14,202,885	8,431,645	6,520,865	14,952,510	8,853,227	6,846,909	15,700,136	1.48%	1.44%	1.46%	1.48%	1.44%	1.46%	1.48%	1.44%
2036	8,161,287	6,309,257	14,470,545	8,590,829	6,641,323	15,232,151	9,020,370	6,973,38									



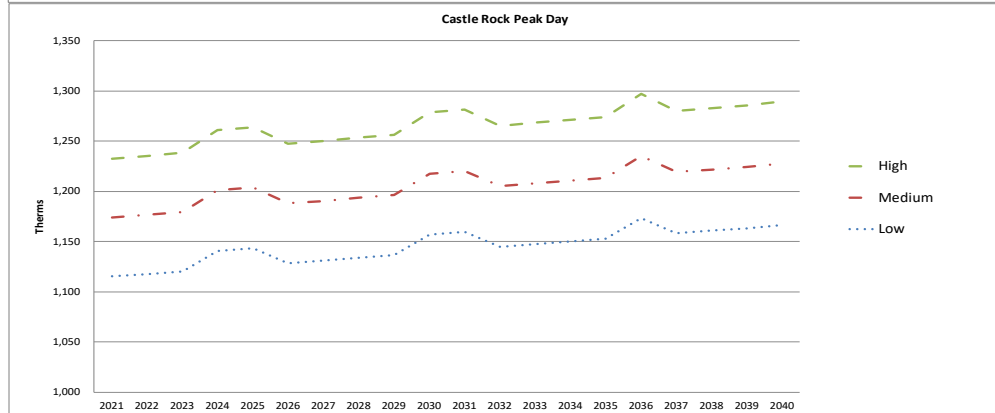
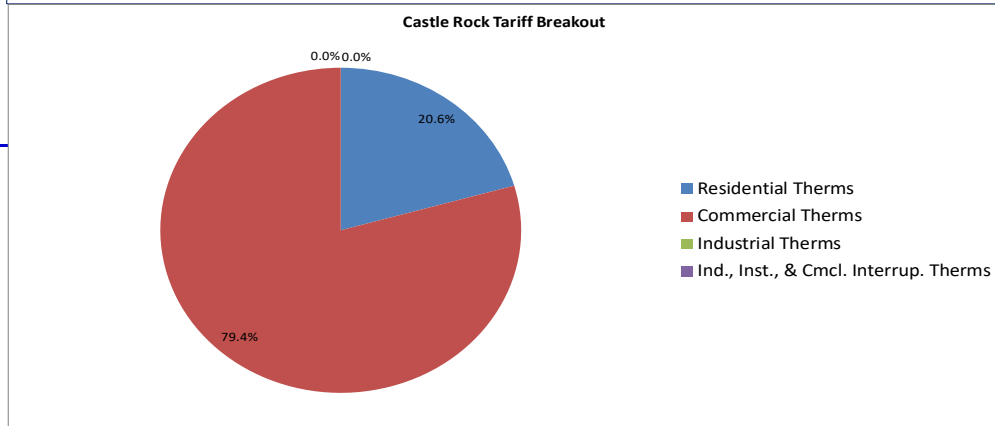
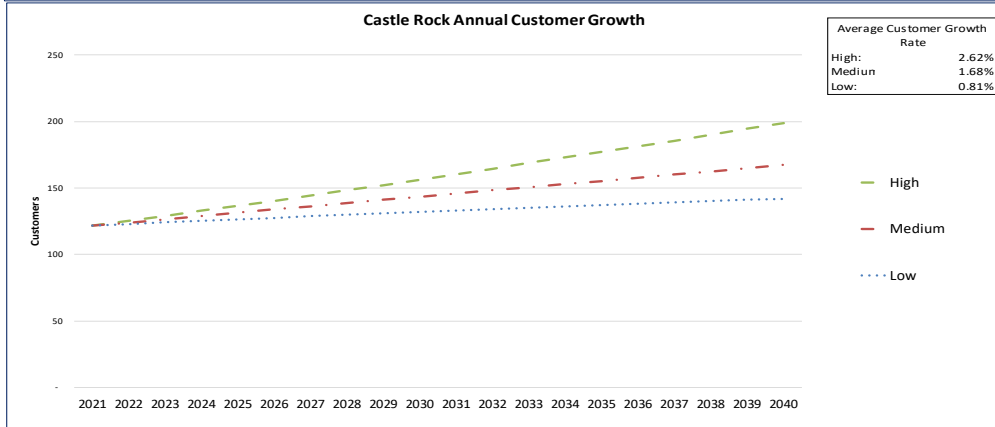
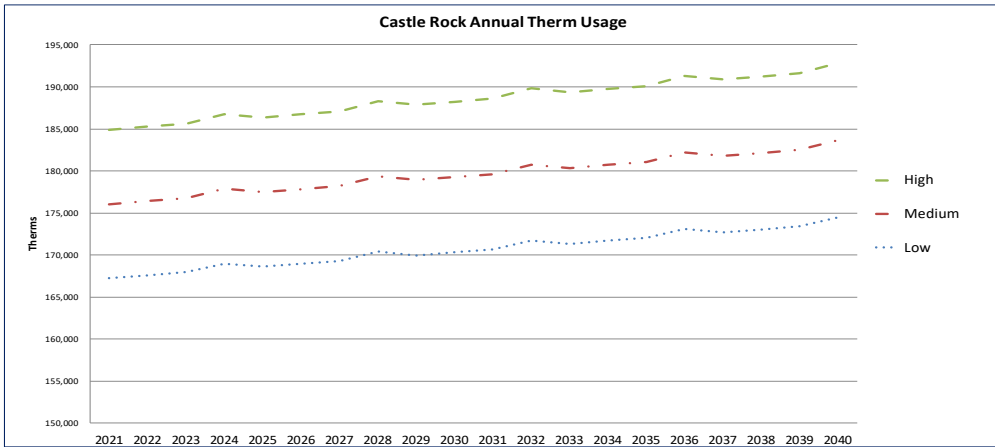
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Castle Rock															
Annual Requirements (Therms)															
Low			Medium			High			Annual Change						
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	83,468	83,787	167,255	87,861	88,196	176,058	92,255	92,606	184,861	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	83,856	83,756	167,612	88,270	88,164	176,433	92,683	92,572	185,255	0.46%	-0.04%	0.21%	0.46%	0.21%	0.46%
2023	84,191	83,759	167,951	88,622	88,168	176,790	93,054	92,576	185,630	0.40%	0.00%	0.20%	0.40%	0.20%	0.40%
2024	84,597	84,395	168,992	89,049	88,837	177,886	93,502	93,279	186,780	0.48%	0.76%	0.62%	0.48%	0.62%	0.48%
2025	84,353	84,260	168,613	88,793	88,695	177,488	93,233	93,130	186,362	-0.29%	-0.16%	-0.22%	-0.29%	-0.16%	-0.22%
2026	84,862	84,090	168,953	89,329	88,516	177,845	93,795	92,942	186,737	0.60%	-0.20%	0.20%	0.60%	-0.20%	0.20%
2027	85,233	84,058	169,292	89,719	88,482	178,202	94,205	92,906	187,112	0.44%	-0.04%	0.20%	0.44%	-0.04%	0.20%
2028	87,122	84,271	170,392	90,654	88,706	179,360	95,187	93,141	188,328	1.04%	0.25%	0.65%	1.04%	0.25%	0.65%
2029	85,525	84,447	169,972	90,026	88,892	178,918	94,527	93,337	187,864	-0.69%	0.21%	-0.25%	-0.69%	0.21%	-0.25%
2030	85,648	84,663	170,311	90,156	89,119	179,275	94,664	93,575	188,239	0.14%	0.26%	0.20%	0.14%	0.26%	0.20%
2031	86,118	84,533	170,650	90,651	88,982	179,632	95,183	93,431	188,614	0.55%	-0.15%	0.20%	0.55%	-0.15%	0.20%
2032	87,156	84,567	171,723	91,743	89,018	180,761	96,330	93,469	189,799	1.21%	0.04%	0.63%	1.21%	0.04%	0.63%
2033	86,817	84,532	171,349	91,386	88,981	180,367	95,956	93,430	189,386	-0.39%	-0.04%	-0.22%	-0.39%	-0.04%	-0.22%
2034	87,152	84,536	171,688	91,739	88,985	180,724	96,326	93,434	189,761	0.39%	0.00%	0.20%	0.39%	0.00%	0.20%
2035	87,296	84,714	172,010	91,891	89,172	181,063	96,485	93,631	190,116	0.17%	0.21%	0.19%	0.17%	0.21%	0.19%
2036	88,051	85,039	173,090	92,685	89,515	182,200	97,319	93,991	191,310	0.86%	0.38%	0.63%	0.86%	0.38%	0.63%
2037	87,820	84,870	172,691	92,442	89,337	181,780	97,065	93,804	190,869	-0.26%	-0.20%	-0.23%	-0.26%	-0.20%	-0.23%
2038	88,196	84,834	173,030	92,838	89,299	182,137	97,480	93,764	191,244	0.43%	-0.04%	0.20%	0.43%	-0.04%	0.20%
2039	88,590	84,797	173,388	93,253	89,260	182,513	97,916	93,723	191,639	0.45%	-0.04%	0.21%	0.45%	-0.04%	0.21%
2040	89,263	85,212	174,475	93,961	89,697	183,658	98,659	94,182	192,841	0.76%	0.49%	0.63%	0.76%	0.49%	0.63%

Peak Day - BaseLoad															
Low			Medium			High			Annual Change						
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	230	886	1,115	242	932	1,174	254	979	1,233	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	229	888	1,118	242	935	1,177	254	982	1,235	-0.04%	0.30%	0.23%	-0.04%	0.30%	0.23%
2023	229	891	1,120	242	938	1,179	254	985	1,238	0.00%	0.29%	0.23%	0.00%	0.29%	0.23%
2024	231	910	1,141	243	958	1,201	256	1,005	1,261	0.76%	2.11%	1.83%	0.76%	2.11%	1.83%
2025	231	913	1,143	243	961	1,204	255	1,009	1,264	-0.16%	0.32%	0.23%	-0.16%	0.32%	0.23%
2026	230	898	1,128	243	945	1,188	255	993	1,247	-0.20%	-1.59%	-1.31%	-0.20%	-1.59%	-1.31%
2027	230	901	1,131	242	948	1,191	255	996	1,250	-0.04%	0.29%	0.23%	-0.04%	0.29%	0.23%
2028	231	903	1,134	243	951	1,194	255	998	1,254	0.25%	0.28%	0.27%	0.25%	0.28%	0.27%
2029	231	905	1,137	244	953	1,197	256	1,001	1,256	0.21%	0.23%	0.23%	0.21%	0.23%	0.23%
2030	232	925	1,157	244	974	1,218	256	1,022	1,279	0.26%	2.17%	1.78%	0.26%	2.17%	1.78%
2031	232	928	1,159	244	977	1,221	256	1,026	1,282	-0.15%	0.32%	0.22%	-0.15%	0.32%	0.22%
2032	232	913	1,145	244	961	1,205	256	1,009	1,265	0.04%	-1.58%	-1.26%	0.04%	-1.58%	-1.26%
2033	232	916	1,147	244	964	1,208	256	1,012	1,268	-0.04%	0.29%	0.22%	-0.04%	0.29%	0.22%
2034	232	918	1,150	244	967	1,211	256	1,015	1,271	0.00%	0.28%	0.22%	0.00%	0.28%	0.22%
2035	232	920	1,153	244	969	1,213	257	1,017	1,274	0.21%	0.22%	0.22%	0.21%	0.22%	0.22%
2036	233	941	1,173	245	990	1,235	258	1,040	1,297	0.38%	2.18%	1.82%	0.38%	2.18%	1.82%
2037	233	926	1,158	245	974	1,219	257	1,023	1,280	-0.20%	-1.57%	-1.30%	-0.20%	-1.57%	-1.30%
2038	232	928	1,161	245	977	1,222	257	1,026	1,283	-0.04%	0.29%	0.22%	-0.04%	0.29%	0.22%
2039	232	931	1,163	245	980	1,225	257	1,029	1,286	-0.04%	0.29%	0.22%	-0.04%	0.29%	0.22%
2040	233	933	1,166	246	982	1,228	258	1,031	1,289	0.49%	0.21%	0.27%	0.49%	0.21%	0.27%

Therms Usage by Class															
Low			Medium			High			Annual Change						
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	33,832	133,423	167,255	35,613	140,445	176,058	37,394	147,463	184,861	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	34,243	133,368	167,612	36,046	139,888	176,433	37,848	147,407	185,255	1.21%	-0.04%	0.21%	1.21%	-0.04%	0.21%
2023	34,652	133,299	167,951	36,475	140,315	176,790	38,299	147,331	185,630	1.19%	-0.05%	0.20%	1.19%	-0.05%	0.20%
2024	35,234	133,758	168,992	37,088	140,798	177,886	38,942	147,838	186,780	1.68%	0.34%	0.62%	1.68%	0.34%	0.62%
2025	35,468	133,145	168,613	37,335	140,153	177,488	39,201	147,161	186,362	0.67%	-0.46%	-0.22%	0.67%	-0.46%	-0.22%
2026	35,878	133,075	168,953	37,766	140,079	177,845	39,654	147,083	186,737	1.15%	-0.05%	0.20%	1.15%	-0.05%	0.20%
2027	36,287	133,004	169,292	38,197	140,004	178,202	40,107	147,005	187,112	1.14%	-0.05%	0.20%	1.14%	-0.05%	0.20%
2028	36,888	133,504	170,392	38,830	140,530	179,360	40,771	147,557	188,328	1.66%	0.38%	0.65%	1.66%	0.38%	0.65%
2029	37,110	132,862	169,972	39,063	139,855	178,918	41,016	146,848	187,864	0.60%	-0.48%	-0.25%	0.60%	-0.48%	-0.25%
2030	37,521	132,790	170,311	39,496	139,779	179,275	41,471	146,768	188,239	1.11%	-0.05%	0.20%	1.11%	-0.05%	0.20%
2031	37,933	132,718	170,650	39,929	139,703	179,632	41,925	146,688	188,614	1.10%	-0.05%	0.20%	1.10%	-0.05%	0.20%
2032	38,537	133,186	171,723	40,565	140,196	180,761	42,594	147,206	189,799	1.59%	0.35%	0.63%	1.59%	0.35%	0.63%
2033	38,762	132,587	171,349	40,802	139,566	180,367	42,842	146,544	189,386	0.58%	-0.45%	-0.22%	0.58%	-0.45%	-0.22%
2034	39,174	132,514	171,688	41,236	139,488	180,724	43,298	146,463	189,761	1.06%	-0.06%	0.20%	1.06%	-0.06%	0.20%
2035	39,584	132,426	172,010	41,668	139,395	181,063	43,751	146,365	190,116	1.05%	-0.07%	0.19%	1.05%	-0.07%	0.19%
2036	40,199	132,891	173,090	42,314	139,886	182,200	44,430	146,880	191,310	1.55%	0.35%	0.63%	1.55%	0.35%	0.63%
2037	40,413	132,278	172,691	42,540	139,240	181,780	44,667	146,202	190,869	0.53%	-0.46%	-0.23%	0.53%	-0.46%	-0.23%
2038	40,827	132,203	173,030	42,976	139,161	182,137	45,125	146,119	191,244	1.03%	-0.06%	0.20%	1.03%	-0.06%	0.20%
2039	41,246	132,142	173,388	43,417	139,097	182,513	45,588	146,051	191,639	1.02%	-0.05%	0.21%	1.02%	-0.05%	0.21%
2040	41,870	132,604	174,475	44,074	139,584	183,658	46,278	146,563	192,841	1.51%	0.35%	0.63%	1.51%	0.35%	0.63%

Customer Count Forecast															
Low			Medium			High			Annual Change						
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	74	48	122	74	48	122	74	48	122	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	75	48	123	76	48	124	77	48	125	1.52%	0.00%	0.92%	3.05%	0.00%	4.57%
2023	76	48	124	79	48	127	81	48	129	1.64%	0.00%	1.00%	3.29%	0.00%	4.93%
2024	77	48	125	81	48	129	85	48	133	1.59%	0.00%	0.98%	3.18%	0.00%	4.77%
2025	79	48	127	83	48	131	89	48	137	1.44%	0.00%	0.89%	2.88%	0.00%	4.32%
2026	80	48	128	86	48	134	93	48	141	1.50%	0.00%	0.93%	3.00%	0.00%	4.50%
2027	81	48	129	88	48	136	96	48	144	1.31%	0.00%	0.82%	2.62%	0.00%	3.93%
2028	82	48	130	91	48	139	100	48	148	1.47%	0.00%	0.92%	2.93%	0.00%	4.40%
2029	83	48	131	93	48	141	104	48	152	1.29%	0.00%	0.81%	2.57%	0.00%	3.86%
2030	84	48	132	95	48	143	108	48	156	1.25%	0.00%	0.79%	2.51%	0.00%	3.76%
2031	85	48	133	98	48	146	112	48	160	1.31%	0.00%	0.83%	2.62%	0.00%	3.93%
2032	86	48													



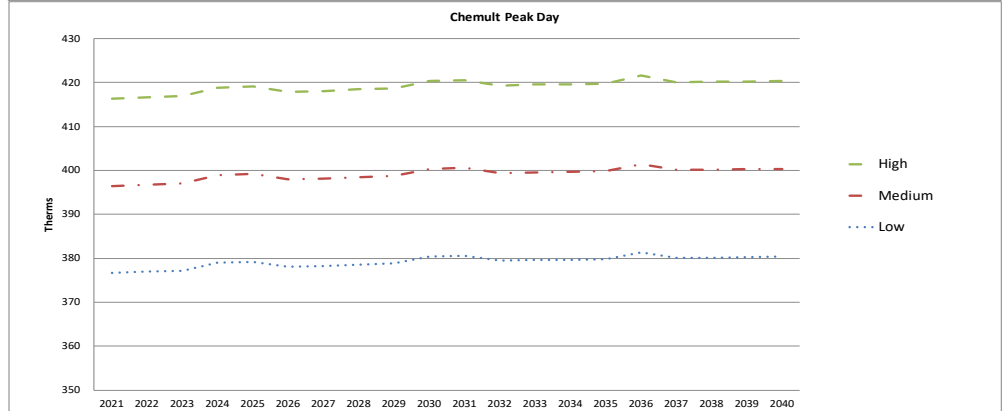
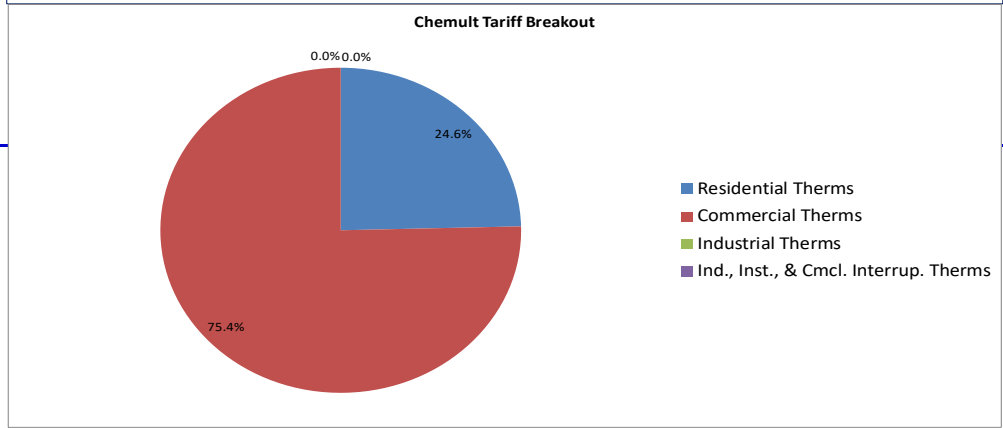
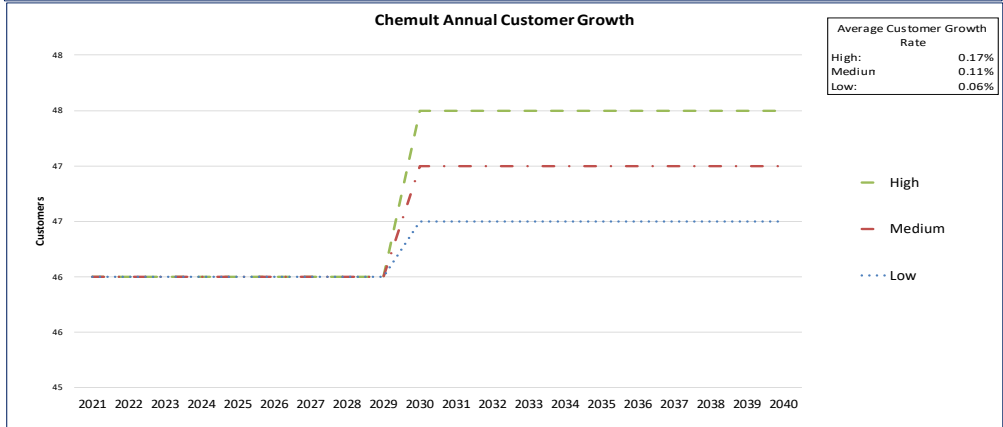
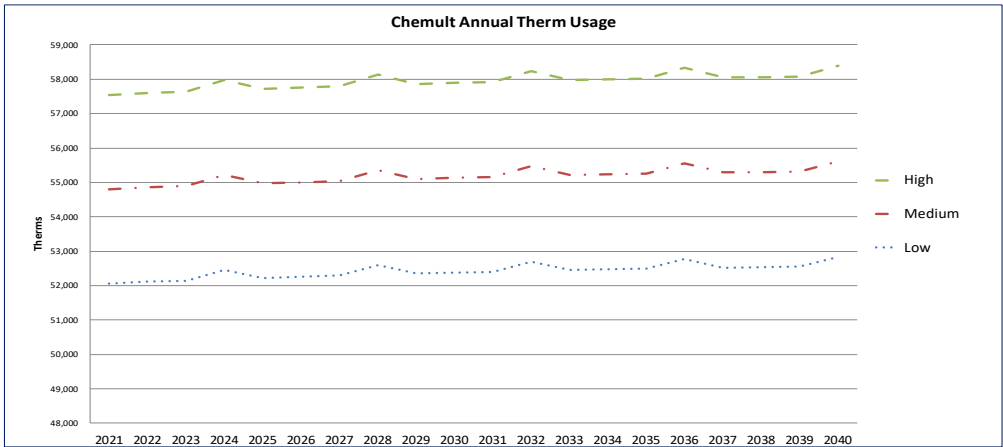
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Chemult												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	36,904	15,164	52,068	38,846	15,962	54,808	40,788	16,760	57,549	0.00%	0.00%	0.00%
2022	36,954	15,155	52,109	38,899	15,953	54,851	40,844	16,750	57,594	0.14%	-0.06%	0.08%
2023	37,012	15,135	52,147	38,960	15,932	54,892	40,908	16,728	57,636	0.16%	-0.13%	0.07%
2024	37,245	15,205	52,450	39,205	16,005	55,211	41,166	16,805	57,971	0.63%	0.46%	0.58%
2025	37,033	15,187	52,220	38,992	15,986	54,968	40,931	16,785	57,717	-0.57%	-0.12%	-0.44%
2026	37,089	15,166	52,254	39,041	15,964	55,005	40,993	16,762	57,755	0.15%	-0.14%	0.07%
2027	37,132	15,156	52,288	39,087	15,953	55,040	41,041	16,751	57,792	0.12%	-0.07%	0.06%
2028	37,330	15,259	52,590	39,295	16,063	55,358	41,260	16,866	58,125	0.53%	0.69%	0.58%
2029	37,126	15,223	52,349	39,080	16,025	55,105	41,034	16,826	57,860	-0.55%	-0.24%	-0.46%
2030	37,188	15,190	52,378	39,145	15,990	55,134	41,102	16,789	57,891	0.17%	-0.22%	0.05%
2031	37,234	15,170	52,404	39,193	15,969	55,162	41,153	16,767	57,920	0.12%	-0.13%	0.05%
2032	37,424	15,273	52,697	39,394	16,077	55,470	41,363	16,880	58,244	0.51%	0.68%	0.56%
2033	37,193	15,259	52,453	39,151	16,063	55,213	41,108	16,866	57,974	-0.62%	-0.09%	-0.46%
2034	37,238	15,235	52,473	39,198	16,037	55,235	41,158	16,839	57,997	0.12%	-0.16%	0.04%
2035	37,293	15,197	52,491	39,256	15,997	55,253	41,219	16,797	58,016	0.15%	-0.25%	0.03%
2036	37,496	15,279	52,775	39,470	16,083	55,553	41,443	16,888	58,331	0.54%	0.54%	0.54%
2037	37,268	15,253	52,521	39,230	16,056	55,286	41,191	16,859	58,050	-0.61%	-0.17%	-0.48%
2038	37,296	15,238	52,534	39,259	16,040	55,299	41,222	16,842	58,064	0.07%	-0.10%	0.02%
2039	37,323	15,223	52,546	39,288	16,024	55,312	41,252	16,825	58,078	0.07%	-0.10%	0.02%
2040	37,527	15,298	52,825	39,502	16,103	55,605	41,477	16,908	58,385	0.55%	0.49%	0.53%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	42	335	377	44	353	397	46	370	416	0.00%	0.00%	0.00%
2022	42	335	377	44	353	397	46	371	417	-0.06%	0.09%	0.07%
2023	41	336	377	44	353	397	46	371	417	-0.13%	0.09%	0.07%
2024	42	337	379	44	355	399	46	373	419	0.46%	0.46%	0.46%
2025	42	338	380	44	355	399	46	373	419	0.12%	0.09%	0.12%
2026	42	337	378	44	354	398	46	372	418	-0.14%	-0.32%	-0.14%
2027	42	337	378	44	355	398	46	372	418	-0.07%	0.08%	0.06%
2028	42	337	379	44	355	399	46	372	418	0.69%	0.01%	0.08%
2029	42	337	379	44	355	399	46	373	419	-0.24%	0.09%	0.05%
2030	42	339	380	44	357	400	46	374	420	-0.22%	0.49%	0.41%
2031	42	339	381	44	357	401	46	375	421	-0.13%	0.07%	0.05%
2032	42	338	379	44	355	399	46	373	419	0.68%	-0.41%	-0.30%
2033	42	338	380	44	356	400	46	373	420	-0.09%	0.05%	0.04%
2034	42	338	380	44	356	400	46	374	420	-0.16%	0.06%	-0.16%
2035	42	338	380	44	356	400	46	374	420	-0.25%	0.06%	0.03%
2036	42	340	381	44	357	401	46	375	422	0.54%	0.40%	0.42%
2037	42	338	380	44	356	400	46	374	420	-0.17%	-0.36%	-0.17%
2038	42	338	380	44	356	400	46	374	420	-0.10%	0.03%	0.02%
2039	42	339	380	44	356	400	46	374	420	-0.10%	0.03%	0.02%
2040	42	338	380	44	356	400	46	374	420	0.49%	-0.02%	0.04%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	12,810	39,258	52,068	13,484	41,324	54,808	14,158	43,390	57,549	0.00%	0.00%	0.00%
2022	12,849	39,260	52,109	13,525	41,327	54,851	14,201	43,393	57,594	0.30%	0.01%	0.08%
2023	12,887	39,260	52,147	13,565	41,327	54,892	14,243	43,393	57,636	0.30%	0.00%	0.07%
2024	12,987	39,463	52,450	13,670	41,540	55,211	14,354	43,617	57,971	0.77%	0.52%	0.58%
2025	12,961	39,259	52,220	13,643	41,325	54,968	14,325	43,392	57,717	-0.20%	-0.52%	-0.20%
2026	12,995	39,259	52,254	13,679	41,325	55,005	14,363	43,392	57,755	0.27%	0.00%	0.27%
2027	13,029	39,259	52,288	13,715	41,325	55,040	14,400	43,392	57,792	0.26%	0.00%	0.26%
2028	13,124	39,466	52,590	13,815	41,543	55,358	14,506	43,620	58,125	0.73%	0.53%	0.58%
2029	13,090	39,259	52,349	13,779	41,325	55,105	14,468	43,392	57,860	-0.26%	-0.52%	-0.26%
2030	13,119	39,259	52,378	13,809	41,325	55,134	14,499	43,392	57,891	0.22%	0.00%	0.22%
2031	13,145	39,259	52,404	13,837	41,325	55,162	14,528	43,392	57,920	0.20%	0.00%	0.20%
2032	13,233	39,463	52,697	13,930	41,540	55,470	14,626	43,617	58,244	0.67%	0.52%	0.56%
2033	13,192	39,260	52,453	13,887	41,327	55,213	14,581	43,393	57,974	-0.31%	-0.51%	-0.31%
2034	13,213	39,260	52,473	13,908	41,327	55,235	14,604	43,393	57,997	0.16%	0.00%	0.16%
2035	13,231	39,259	52,491	13,928	41,325	55,253	14,624	43,392	58,016	0.14%	0.00%	0.14%
2036	13,312	39,463	52,775	14,013	41,540	55,553	14,713	43,617	58,331	0.61%	0.52%	0.61%
2037	13,262	39,259	52,521	13,960	41,325	55,286	14,658	43,392	58,050	-0.37%	-0.52%	-0.37%
2038	13,275	39,259	52,534	13,974	41,325	55,299	14,672	43,392	58,064	0.10%	0.00%	0.10%
2039	13,286	39,260	52,546	13,985	41,327	55,312	14,685	43,393	58,078	0.08%	0.00%	0.08%
2040	13,360	39,464	52,825	14,064	41,542	55,605	14,767	43,619	58,385	0.56%	0.52%	0.53%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2022	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2023	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2024	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2025	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2026	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2027	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2028	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2029	26	20	46	26	20	46	26	20	46	0.00%	0.00%	0.00%
2030	27	20	47	27	20	47	28	20	48	1.92%	0.00%	3.85%
2031	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2032	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2033	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2034	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2035	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2036	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2037	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2038	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2039	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%
2040	27	20	47	27	20	47	28	20	48	0.00%	0.00%	0.00%

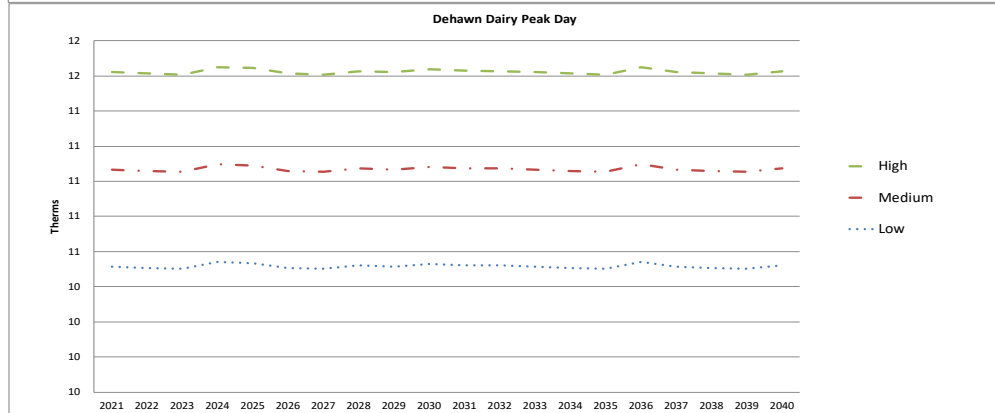
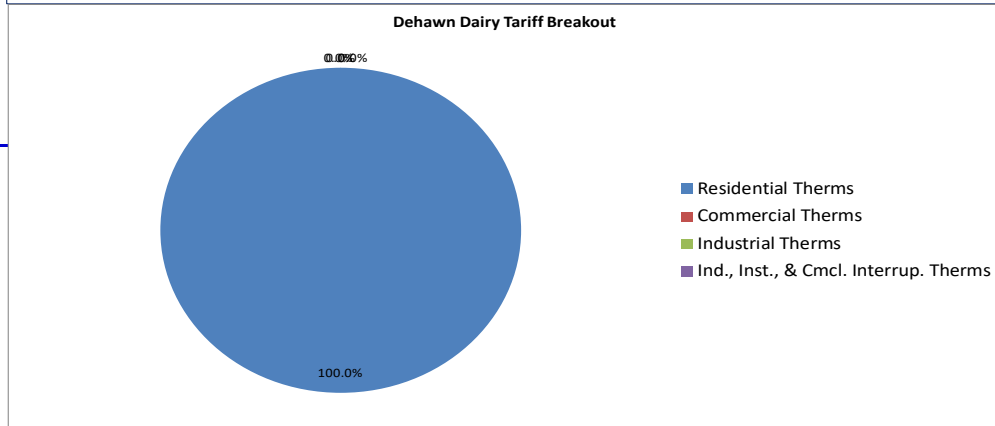
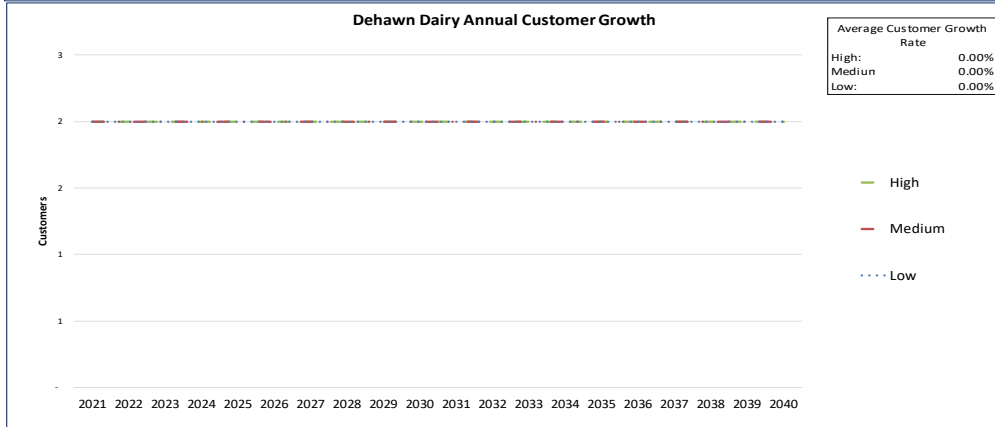
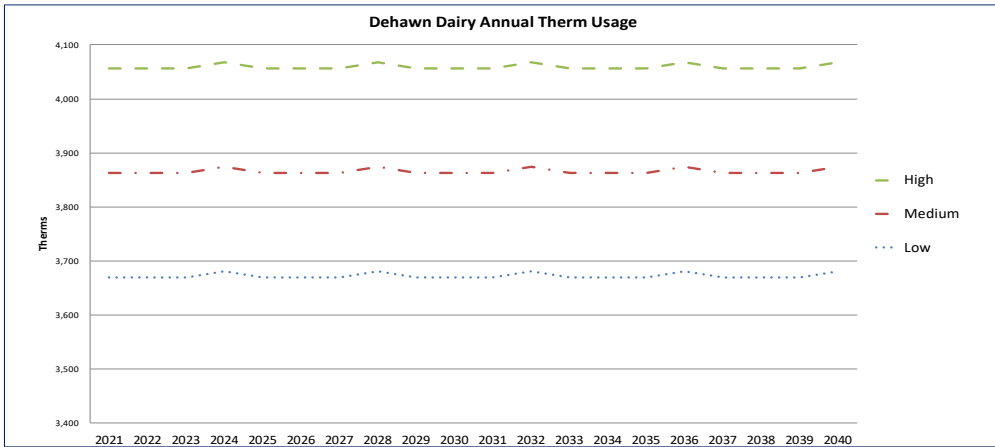


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Dehawn Dairy												Annual Requirements (Therms)												Annual Change											
Low			Medium			High			Low			Medium			High			Low			Medium			High											
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total												
2021	244	3,426	3,670	257	3,607	3,863	269	3,787	3,788	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%												
2022	243	3,427	3,670	256	3,607	3,863	269	3,788	3,788	4,057	-0.21%	0.02%	0.00%	-0.21%	0.02%	0.00%	-0.21%	0.02%	0.00%	-0.21%	0.02%	0.00%	0.00%												
2023	242	3,428	3,670	255	3,608	3,863	268	3,789	3,789	4,057	-0.31%	0.02%	0.00%	-0.31%	0.02%	0.00%	-0.31%	0.02%	0.00%	-0.31%	0.02%	0.00%	0.00%												
2024	255	3,426	3,681	269	3,606	3,875	282	3,786	3,786	4,068	5.21%	-0.06%	0.29%	5.21%	-0.06%	0.29%	5.21%	-0.06%	0.29%	5.21%	-0.06%	0.29%	0.29%												
2025	244	3,426	3,670	257	3,607	3,863	269	3,787	3,787	4,056	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-0.29%												
2026	243	3,427	3,670	256	3,607	3,863	269	3,788	3,788	4,056	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	0.00%												
2027	243	3,428	3,670	255	3,608	3,863	268	3,788	3,788	4,056	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	0.00%												
2028	255	3,426	3,681	268	3,606	3,875	282	3,786	3,786	4,068	5.14%	-0.05%	0.29%	5.14%	-0.05%	0.29%	5.14%	-0.05%	0.29%	5.14%	-0.05%	0.29%	0.29%												
2029	243	3,427	3,670	256	3,608	3,863	268	3,788	3,788	4,056	-4.81%	0.05%	-0.29%	-4.81%	0.05%	-0.29%	-4.81%	0.05%	-0.29%	-4.81%	0.05%	-0.29%	-0.29%												
2030	243	3,427	3,670	256	3,607	3,863	269	3,788	3,788	4,056	0.17%	-0.01%	0.00%	0.17%	-0.01%	0.00%	0.17%	-0.01%	0.00%	0.17%	-0.01%	0.00%	0.00%												
2031	243	3,428	3,670	255	3,608	3,863	268	3,788	3,788	4,056	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	0.00%												
2032	255	3,426	3,681	269	3,606	3,875	282	3,786	3,786	4,068	5.16%	-0.05%	0.29%	5.16%	-0.05%	0.29%	5.16%	-0.05%	0.29%	5.16%	-0.05%	0.29%	0.29%												
2033	244	3,426	3,670	257	3,607	3,863	269	3,787	3,787	4,057	-4.42%	0.02%	-0.29%	-4.42%	0.02%	-0.29%	-4.42%	0.02%	-0.29%	-4.42%	0.02%	-0.29%	-0.29%												
2034	243	3,427	3,670	256	3,607	3,863	269	3,788	3,788	4,057	-0.30%	0.02%	0.00%	-0.30%	0.02%	0.00%	-0.30%	0.02%	0.00%	-0.30%	0.02%	0.00%	0.00%												
2035	242	3,428	3,670	255	3,608	3,863	268	3,789	3,789	4,056	-0.40%	0.03%	0.00%	-0.40%	0.03%	0.00%	-0.40%	0.03%	0.00%	-0.40%	0.03%	0.00%	0.00%												
2036	255	3,426	3,681	269	3,606	3,875	282	3,786	3,786	4,068	5.35%	-0.07%	0.29%	5.35%	-0.07%	0.29%	5.35%	-0.07%	0.29%	5.35%	-0.07%	0.29%	0.29%												
2037	244	3,426	3,670	257	3,607	3,863	269	3,787	3,787	4,056	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-4.43%	0.02%	-0.29%	-0.29%												
2038	243	3,427	3,670	256	3,607	3,863	269	3,788	3,788	4,056	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	-0.25%	0.02%	0.00%	0.00%												
2039	243	3,428	3,670	255	3,608	3,863	268	3,788	3,788	4,057	-0.25%	0.02%	0.00%	-0.24%	0.02%	0.00%	-0.24%	0.02%	0.00%	-0.24%	0.02%	0.00%	0.00%												
2040	254	3,427	3,681	267	3,607	3,875	280	3,788	3,788	4,068	4.61%	-0.02%	0.29%	4.61%	-0.01%	0.29%	4.61%	-0.01%	0.29%	4.61%	-0.01%	0.29%	0.29%												

Peak Day - Baseload												Annual Change														
Low			Medium			High			Low			Medium			High			Low			Medium			High		
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2021	9	1	11	10	1	11	10	1	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	9	1	11	10	1	11	10	1	12	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.06%			
2023	9	1	11	10	1	11	10	1	12	0.02%	-0.76%	-0.06%	0.02%	-0.76%	-0.06%	0.02%	-0.76%	-0.06%	0.02%	-0.76%	-0.06%	0.02%	-0.06%			
2024	9	1	11	10	1	11	10	1	12	-0.06%	4.14%	0.39%	-0.06%	4.14%	0.39%	-0.06%	4.14%	0.39%	-0.06%	4.14%	0.39%	-0.06%	0.39%			
2025	9	1	11	10	1	11	10	1	12	0.03%	-0.71%	-0.06%	0.03%	-0.71%	-0.06%	0.03%	-0.71%	-0.06%	0.03%	-0.71%	-0.06%	0.03%	0.00%			
2026	9	1	11	10	1	11	10	1	12	0.02%	-2.55%	-0.26%	0.02%	-2.55%	-0.26%	0.02%	-2.55%	-0.26%	0.02%	-2.55%	-0.26%	0.02%	-0.26%			
2027	9	1	11	10	1	11	10	1	12	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.06%			
2028	9	1	11	10	1	11	10	1	12	-0.05%	2.19%	0.19%	-0.05%	2.19%	0.19%	-0.05%	2.19%	0.19%	-0.05%	2.19%	0.19%	0.19%				
2029	9	1	11	10	1	11	10	1	12	0.05%	-0.95%	-0.06%	0.05%	-0.95%	-0.06%	0.05%	-0.95%	-0.06%	0.05%	-0.95%	-0.06%	0.05%				
2030	9	1	11	10	1	11	10	1	12	-0.01%	1.40%	0.14%	-0.01%	1.40%	0.14%	-0.01%	1.40%	0.14%	-0.01%	1.40%	0.14%	0.14%				
2031	9	1	11	10	1	11	10	1	12	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%				
2032	9	1	11	10	1	11	10	1	12	-0.05%	0.30%	-0.02%	-0.05%	0.30%	-0.02%	-0.05%	0.30%	-0.02%	-0.05%	0.30%	-0.02%	-0.02%				
2033	9	1	11	10	1	11	10	1	12	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	-0.06%				
2034	9	1	11	10	1	11	10	1	12	0.02%	-0.75%	-0.06%	0.02%	-0.75%	-0.06%	0.02%	-0.75%	-0.06%	0.02%	-0.75%	-0.06%	-0.06%				
2035	9	1	11	10	1	11	10	1	12	0.03%	-0.81%	-0.06%	0.03%	-0.81%	-0.06%	0.03%	-0.81%	-0.06%	0.03%	-0.81%	-0.06%	-0.06%				
2036	9	1	11	10	1	11	10	1	12	-0.07%	4.22%	0.39%	-0.07%	4.22%	0.39%	-0.07%	4.22%	0.39%	-0.07%	4.22%	0.39%	0.39%				
2037	9	1	11	10	1	11	10	1	12	0.02%	-2.53%	-0.26%	0.02%	-2.53%	-0.26%	0.02%	-2.53%	-0.26%	0.02%	-2.53%	-0.26%	-0.26%				
2038	9	1	11	10	1	11	10	1	12	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	0.02%	-0.72%	-0.06%	-0.06%				
2039	9	1	11	10	1	11	10	1	12	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	0.02%	-0.73%	-0.06%	-0.06%				
2040	9	1	11	10	1	11	10	1	12	-0.02%	1.88%	0.19%	-0.01%	1.88%	0.19%	-0.01%	1.88%	0.19%	-0.01%	1.88%	0.19%	0.19%				

Therms Usage by Class												Annual Change														
Low			Medium			High			Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total			
2021	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2023	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2024	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.29%			
2025	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	-0.29%			
2026	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2027	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2028	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.29%			
2029	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	-0.29%			
2030	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2031	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2032	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.00%	0.29%	0.29%	0.29%			
2033	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	0.00%	-0.29%	-0.29%	-0.2			

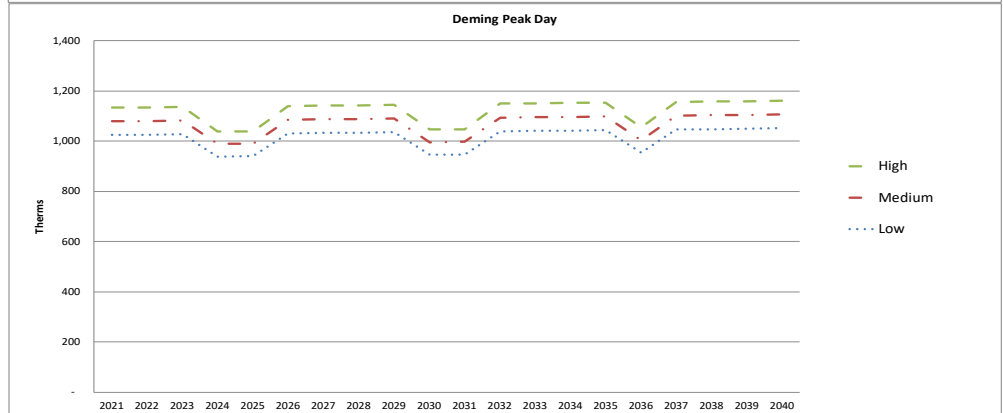
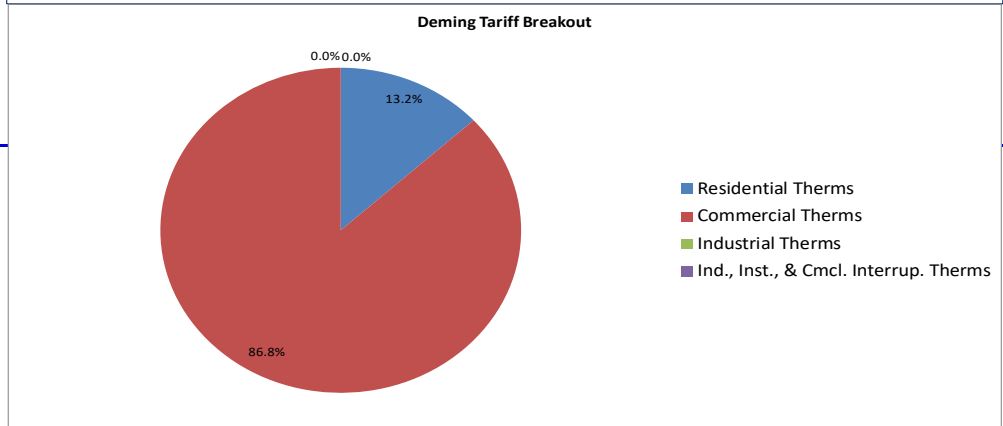
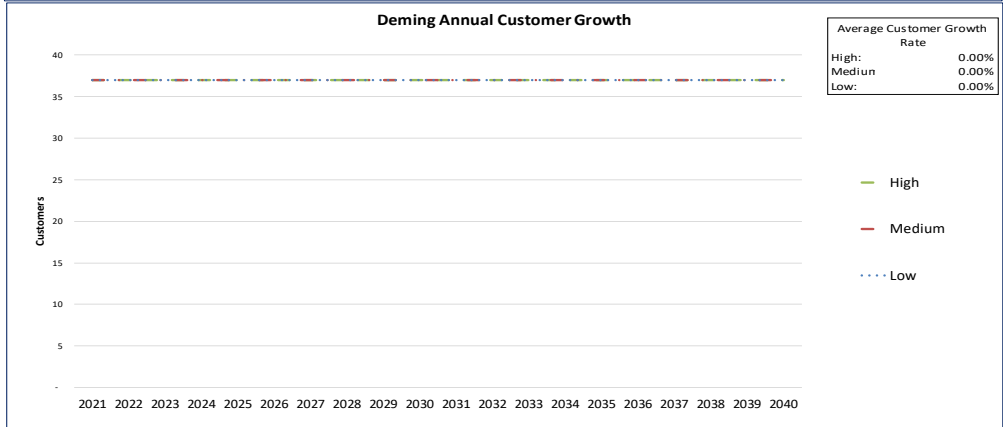
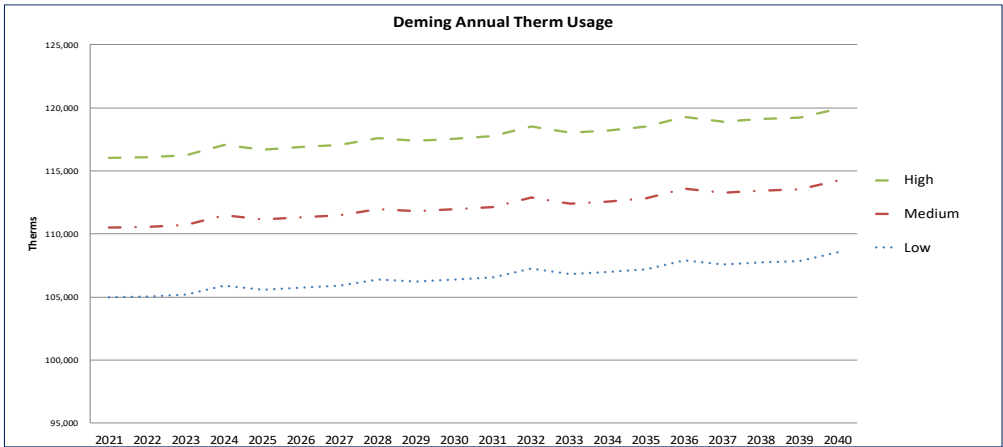


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Deming	Annual Requirements (Therms)										Annual Change									
	Low			Medium			High			Low			Medium			High				
	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total		
2021	87,246	17,748	104,994	91,838	18,682	110,520	96,429	19,617	116,046	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	87,438	17,608	105,046	92,040	18,534	110,575	96,643	19,617	116,103	0.22%	-0.79%	0.05%	0.22%	-0.79%	0.05%	0.22%	-0.79%	0.05%		
2023	90,752	14,438	105,190	95,528	15,197	110,726	100,305	15,957	116,262	3.79%	-18.00%	0.14%	3.79%	-18.00%	0.14%	3.79%	-18.00%	0.14%		
2024	90,631	15,295	105,926	95,401	16,100	111,501	100,171	16,905	117,076	-0.13%	5.94%	0.70%	-0.13%	5.94%	0.70%	-0.13%	5.94%	0.70%		
2025	87,830	17,762	105,592	92,452	18,697	111,150	97,075	19,532	116,707	-3.09%	16.13%	-0.31%	-3.09%	16.13%	-0.31%	-3.09%	16.13%	-0.31%		
2026	87,897	17,857	105,754	92,523	18,797	111,320	97,149	19,737	116,886	0.08%	0.53%	0.15%	0.08%	0.53%	0.15%	0.08%	0.53%	0.15%		
2027	87,940	17,975	105,914	92,568	18,921	111,489	97,196	19,867	117,063	0.05%	0.66%	0.15%	0.05%	0.66%	0.15%	0.05%	0.66%	0.15%		
2028	91,498	14,893	106,391	96,314	15,777	111,990	101,130	16,460	117,590	4.05%	-17.15%	0.45%	4.05%	-17.15%	0.45%	4.05%	-17.15%	0.45%		
2029	87,792	18,421	106,213	92,412	19,931	111,803	97,033	20,360	117,393	-4.05%	23.69%	-0.17%	-4.05%	23.69%	-0.17%	-4.05%	23.69%	-0.17%		
2030	91,020	15,351	106,371	95,810	16,159	111,969	100,601	16,967	117,568	3.68%	-16.67%	0.15%	3.68%	-16.67%	0.15%	3.68%	-16.67%	0.15%		
2031	88,541	18,012	106,553	93,202	18,960	112,161	97,862	19,908	117,769	-2.72%	17.33%	0.17%	-2.72%	17.33%	0.17%	-2.72%	17.33%	0.17%		
2032	89,088	18,157	107,245	93,777	19,112	112,889	98,466	20,068	118,534	0.62%	0.80%	0.65%	0.62%	0.80%	0.65%	0.62%	0.80%	0.65%		
2033	88,955	18,007	106,803	93,469	18,955	112,424	98,142	19,903	118,045	-0.33%	-0.82%	-0.41%	-0.33%	-0.82%	-0.41%	-0.33%	-0.82%	-0.41%		
2034	92,031	14,934	106,965	96,875	15,720	112,595	101,719	16,506	118,225	3.64%	-17.07%	0.15%	3.64%	-17.07%	0.15%	3.64%	-17.07%	0.15%		
2035	88,548	18,669	107,217	93,209	19,651	112,860	97,869	20,634	118,503	-3.78%	25.01%	0.24%	-3.78%	25.01%	0.24%	-3.78%	25.01%	0.24%		
2036	89,718	18,205	107,923	94,440	19,164	113,603	99,162	20,122	119,284	1.32%	-2.48%	0.66%	1.32%	-2.48%	0.66%	1.32%	-2.48%	0.66%		
2037	89,286	18,304	107,590	93,985	19,268	113,253	98,684	20,231	118,915	-0.48%	0.54%	-0.31%	-0.48%	0.54%	-0.31%	-0.48%	0.54%	-0.31%		
2038	89,360	18,410	107,770	94,063	19,379	113,442	98,766	20,348	119,114	0.08%	0.58%	0.17%	0.08%	0.58%	0.17%	0.08%	0.58%	0.17%		
2039	89,604	18,246	107,850	94,320	19,206	113,527	99,036	20,167	119,203	0.27%	-0.89%	0.07%	0.27%	-0.89%	0.07%	0.27%	-0.89%	0.07%		
2040	92,749	15,787	108,536	97,630	16,618	114,248	102,512	17,449	119,960	3.51%	-13.48%	0.64%	3.51%	-13.48%	0.64%	3.51%	-13.48%	0.64%		

Deming	Peak Day - BaseLoad										Annual Change									
	Low			Medium			High			Low			Medium			High				
	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total		
2021	49	976	1,025	51	1,028	1,079	54	1,079	1,133	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	48	978	1,026	51	1,029	1,080	53	1,081	1,134	-0.79%	0.15%	0.11%	-0.79%	0.15%	0.11%	-0.79%	0.15%	0.11%		
2023	40	988	1,027	42	1,040	1,081	44	1,092	1,135	-18.00%	1.00%	0.11%	-18.00%	1.00%	0.11%	-18.00%	1.00%	0.11%		
2024	42	897	939	44	944	988	46	992	1,038	5.94%	-9.17%	-8.58%	5.94%	-9.17%	-8.58%	5.94%	-9.17%	-8.58%		
2025	49	891	940	51	938	989	54	985	1,039	16.13%	-0.64%	0.11%	16.13%	-0.64%	0.11%	16.13%	-0.64%	0.11%		
2026	49	982	1,031	51	1,034	1,085	54	1,086	1,140	0.53%	10.19%	9.69%	0.53%	10.19%	9.69%	0.53%	10.19%	9.69%		
2027	49	983	1,032	52	1,035	1,087	54	1,087	1,141	0.66%	0.09%	0.11%	0.66%	0.09%	0.11%	0.66%	0.09%	0.11%		
2028	41	993	1,034	43	1,045	1,088	45	1,088	1,143	-17.15%	1.03%	0.17%	-17.15%	1.03%	0.17%	-17.15%	1.03%	0.17%		
2029	50	985	1,035	53	1,037	1,090	56	1,088	1,144	23.69%	-0.85%	0.12%	23.69%	-0.85%	0.12%	23.69%	-0.85%	0.12%		
2030	42	904	946	44	951	996	46	999	1,045	-16.67%	-8.22%	-8.63%	-16.67%	-8.22%	-8.63%	-16.67%	-8.22%	-8.63%		
2031	49	898	947	52	945	997	55	992	1,047	17.33%	-0.69%	0.12%	17.33%	-0.69%	0.12%	17.33%	-0.69%	0.12%		
2032	50	990	1,039	52	1,042	1,094	55	1,094	1,149	0.80%	10.26%	9.77%	0.80%	10.26%	9.77%	0.80%	10.26%	9.77%		
2033	49	991	1,041	52	1,044	1,095	55	1,096	1,150	-0.82%	0.17%	0.12%	-0.82%	0.17%	0.12%	-0.82%	0.17%	0.12%		
2034	41	1,001	1,042	43	1,054	1,097	45	1,106	1,152	-17.07%	0.98%	0.12%	-17.07%	0.98%	0.12%	-17.07%	0.98%	0.12%		
2035	51	992	1,043	54	1,044	1,098	57	1,097	1,153	25.01%	-0.89%	0.12%	25.01%	-0.89%	0.12%	25.01%	-0.89%	0.12%		
2036	50	904	954	53	951	1,004	55	999	1,054	-2.48%	-8.90%	-8.59%	-2.48%	-8.90%	-8.59%	-2.48%	-8.90%	-8.59%		
2037	50	996	1,046	53	1,049	1,101	55	1,101	1,157	0.54%	10.23%	9.73%	0.54%	10.23%	9.73%	0.54%	10.23%	9.73%		
2038	50	997	1,048	53	1,050	1,103	56	1,102	1,158	0.58%	0.11%	0.13%	0.58%	0.11%	0.13%	0.58%	0.11%	0.13%		
2039	50	999	1,049	53	1,052	1,104	55	1,104	1,160	-0.89%	0.18%	0.13%	-0.89%	0.18%	0.13%	-0.89%	0.18%	0.13%		
2040	43	1,008	1,051	46	1,061	1,106	48	1,114	1,162	-13.48%	0.87%	0.18%	-13.48%	0.87%	0.18%	-13.48%	0.87%	0.18%		

Deming	Therms Usage by Class										Annual Change									
	Low			Medium			High			Low			Medium			High				
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total		
2021	13,951	91,043	104,994	14,686	95,834	110,520	15,420	100,626	116,046	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	13,940	91,106	105,046	14,674	95,901	110,575	15,407	100,696	116,103	-0.08%	0.07%	0.05%	-0.08%	0.07%	0.05%	-0.08%	0.07%	0.05%		
2023	13,940	91,249	105,189	14,674	96,052	110,726	15,407	100,855	116,262	0.00%	0.16%	0.14%	0.00%	0.16%	0.14%	0.00%	0.16%	0.14%		
2024	14,015	91,910	105,926	14,753	96,748	111,501	15,491	101,585	117,076	0.54%	0.72%	0.70%	0.54%	0.72%	0.70%	0.54%	0.72%	0.70%		
2025	13,952	91,640	105,592	14,687	96,463	111,150	15,421	101,286	116,707	-0.45%	-0.29%	-0.31%	-0.45%	-0.29%	-0.31%	-0.45%	-0.29%	-0.31%		
2026	13,952	91,802	105,754	14,686	96,634	111,320	15,421	101,466	116,886	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%		
2027	13,951	91,963	105,914	14,686	96,803	111,489	15,420	101,643	117,063	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%		
2028	13,994	92,397	106,391	14,730	97,260	111,990	15,467	102,123	117,590	0.30%	0.47%	0.45%	0.30%	0.47%	0.45%	0.30%	0.47%	0.45%		
2029	13,950	92,262	106,213	14,685	97,118	111,803	15,419	101,974	117,393	-0.31%	-0.15%	-0.17%	-0.31%	-0.15%	-0.17%	-0.31%	-0.15%	-0.17%		
2030	13,950	92,421	106,371	14,684	97,285	111,969	15,418	102,149	117,568	0.00%	0.17%	0.15%	0.00%	0.17%	0.15%	0.00%	0.17%	0.15%		
2031	13,952	92,601	106,553	14,687	97,475	112,161	15,421	102,348	117,769	0.02%	0.19%	0.17%	0.02%	0.19%	0.17%	0.02%	0.19%	0.17%		
2032	14,017	93,228	107,245	14,755	98,135	112,889	15,492	103,041	118,534	0.46%	0.68%	0.65%	0.46%	0.68%	0.65%	0.46%	0.68%	0.65%		
2033	13,940	92,863	106,803	14,674	97,750	112,424	15,407	102,638	118,045	-0.55%	-0.39%	-0.41%	-0.55%	-0.39%	-0.41%	-0.55%	-0.39%	-0.41%		
2034	13,940	93,025	106,965	14,674	97,921	112,595	15,407	102,817	118,225	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%	0.00%	0.18%	0.15%		
2035	13,950	93,266	107,217	14,685	98,175	112,860	15,419	103,084	118,503	0.07%	0.26%	0.24%	0.07%	0.26%	0.24%	0.07%	0.26%	0.24%		
2036	14,018	93,905	107,923	14,756	98,848	113,603	15,493	103,790	119,284	0.48%	0.69%	0.66%	0.48%	0.69%	0.66%	0.48%	0.69%	0.66%		
2037	13,952	93,638	107,590	14,686	98,566	113,253	15,421	103,495	118,915	-0.47%	-0.28%	-0.31%	-0.47%	-0.28%	-0.31%	-0.47%	-0.28%	-0.31%		
2038	13,951	93,819	107,770	14,686	98,757	113,442	15,420	103,695	119,114	0.00%	0.19%	0.17%	0.00%	0.19%	0.17%	0.00%	0.19%	0.17%		
2039	13,940	93,910	107,850	14,674	98,853	113,527	15,407	103,796	119,203	-0.08%	0.10%	0.07%	-0.08%	0.10%	0.07%	-0.08%	0.10%	0.07%		
2040	14,004	94,532	108,536	14,741	99,507	114,248	15,478	104,482	119,960	0.46%</										

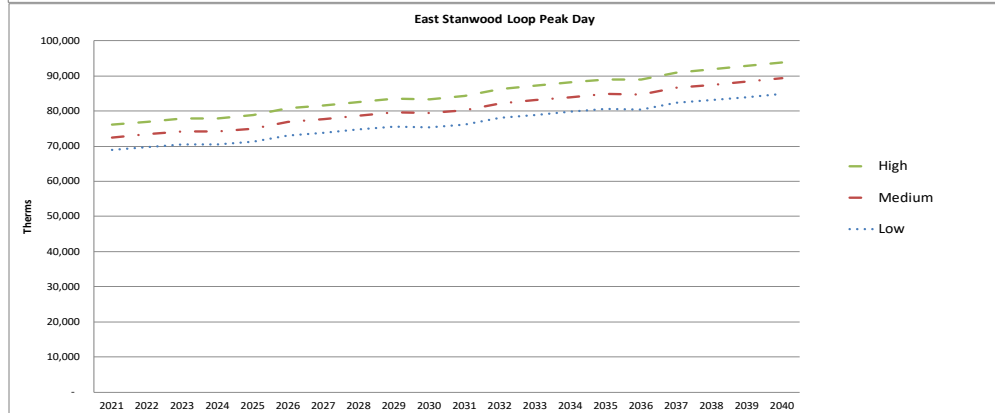
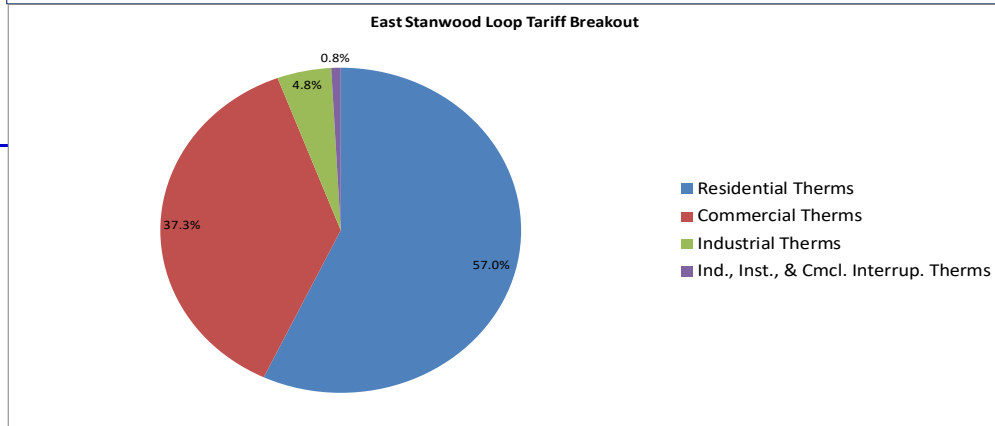
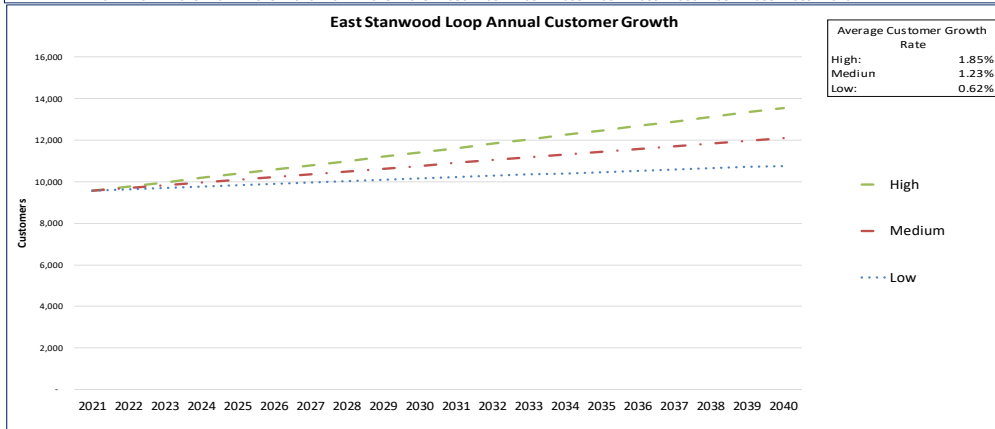
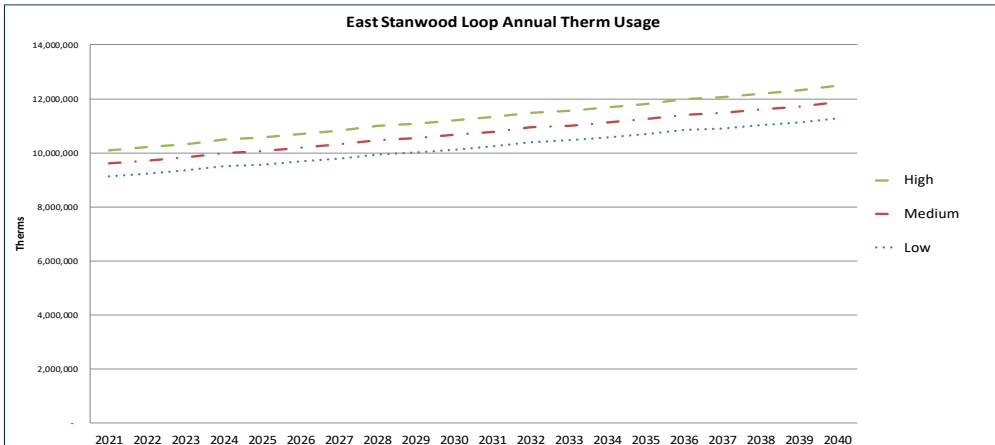


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

East Stanwood Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	5,996,033	3,129,531	9,125,564	6,311,613	3,294,243	9,605,856	6,627,194	3,458,955	10,086,149	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,061,430	3,176,012	9,237,442	6,380,453	3,343,170	9,723,623	6,699,476	3,510,329	10,209,805	1.09%	1.49%	1.23%	1.09%	1.49%	1.23%	1.09%	1.49%
2023	6,136,378	3,212,403	9,348,781	6,459,345	3,381,477	9,840,822	6,782,313	3,550,551	10,332,863	1.24%	1.15%	1.21%	1.24%	1.15%	1.21%	1.24%	1.15%
2024	6,263,601	3,237,151	9,500,752	6,593,264	3,407,527	10,000,791	6,922,927	3,579,904	10,500,830	2.07%	0.77%	1.63%	2.07%	0.77%	1.63%	2.07%	0.77%
2025	6,311,355	3,261,570	9,572,924	6,643,531	3,433,231	10,076,762	6,975,708	3,604,893	10,580,601	0.76%	0.75%	0.76%	0.76%	0.75%	0.76%	0.76%	0.75%
2026	6,388,939	3,295,398	9,684,337	6,725,199	3,468,840	10,194,039	7,061,459	3,642,282	10,703,741	1.23%	1.04%	1.16%	1.23%	1.04%	1.16%	1.23%	1.04%
2027	6,454,497	3,341,275	9,795,772	6,794,207	3,517,132	10,311,339	7,133,918	3,692,989	10,826,906	1.03%	1.39%	1.15%	1.03%	1.39%	1.15%	1.03%	1.39%
2028	6,558,219	3,388,698	9,946,916	6,903,388	3,567,050	10,470,438	7,248,557	3,745,402	10,993,960	1.61%	1.42%	1.54%	1.61%	1.42%	1.54%	1.61%	1.42%
2029	6,595,057	3,424,130	10,019,186	6,942,165	3,604,347	10,546,512	7,289,273	3,784,564	11,073,837	0.56%	1.05%	0.73%	0.56%	1.05%	0.73%	0.56%	1.05%
2030	6,682,111	3,448,584	10,130,695	7,033,801	3,630,089	10,663,890	7,385,491	3,811,593	11,197,084	1.32%	0.71%	1.11%	1.32%	0.71%	1.11%	1.32%	0.71%
2031	6,769,811	3,472,415	10,242,226	7,126,118	3,655,173	10,781,291	7,482,423	3,837,932	11,320,355	1.31%	0.69%	1.10%	1.31%	0.69%	1.10%	1.31%	0.69%
2032	6,880,182	3,517,102	10,397,284	7,242,296	3,702,213	10,944,509	7,604,411	3,887,324	11,491,734	1.63%	1.29%	1.51%	1.63%	1.29%	1.51%	1.63%	1.29%
2033	6,900,151	3,564,697	10,464,848	7,263,317	3,752,313	11,015,629	7,626,483	3,939,928	11,566,411	0.29%	1.35%	0.65%	0.29%	1.35%	0.65%	0.29%	1.35%
2034	6,975,277	3,601,154	10,576,431	7,342,396	3,790,689	11,133,085	7,709,516	3,980,224	11,689,740	1.09%	1.02%	1.07%	1.09%	1.02%	1.07%	1.09%	1.02%
2035	7,052,301	3,636,770	10,689,070	7,423,475	3,828,179	11,251,654	7,794,648	4,019,588	11,814,236	1.10%	0.99%	1.07%	1.10%	0.99%	1.07%	1.10%	0.99%
2036	7,198,476	3,647,644	10,846,120	7,577,343	3,839,625	11,416,968	7,956,211	4,031,606	11,987,817	2.07%	0.30%	1.47%	2.07%	0.30%	1.47%	2.07%	0.30%
2037	7,231,272	3,681,624	10,912,896	7,611,866	3,875,393	11,487,259	7,992,459	4,069,163	12,061,622	0.46%	0.93%	0.62%	0.46%	0.93%	0.62%	0.46%	0.93%
2038	7,295,575	3,729,029	11,024,604	7,679,552	3,925,294	11,604,846	8,063,530	4,121,559	12,185,089	0.89%	1.29%	1.02%	0.89%	1.29%	1.02%	0.89%	1.29%
2039	7,357,665	3,777,592	11,135,257	7,744,911	3,976,412	11,721,323	8,132,156	4,175,233	12,307,389	0.85%	1.30%	1.00%	0.85%	1.30%	1.00%	0.85%	1.30%
2040	7,480,881	3,813,405	11,294,286	7,874,612	4,014,111	11,888,722	8,268,343	4,214,816	12,483,159	1.67%	0.95%	1.43%	1.67%	0.95%	1.43%	1.67%	0.95%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	8,574	60,266	68,840	9,025	63,438	72,464	9,477	66,610	76,087	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	8,701	60,962	69,663	9,159	64,171	73,330	9,617	67,379	76,996	1.49%	1.15%	1.20%	1.49%	1.15%	1.20%	1.49%	1.15%
2023	8,801	61,685	70,486	9,264	64,931	74,196	9,728	68,178	77,906	1.15%	1.19%	1.18%	1.15%	1.19%	1.18%	1.15%	1.19%
2024	8,869	61,590	70,458	9,336	64,831	74,167	9,802	68,073	77,875	0.77%	-0.15%	-0.04%	0.77%	-0.15%	-0.04%	0.77%	-0.15%
2025	8,936	62,235	71,171	9,406	65,456	75,022	9,876	68,897	78,773	0.76%	1.21%	1.15%	0.76%	1.21%	1.15%	0.76%	1.21%
2026	9,028	63,990	73,018	9,504	67,358	76,861	9,979	70,726	80,704	1.04%	2.65%	2.45%	1.04%	2.65%	2.45%	1.04%	2.65%
2027	9,154	64,687	73,841	9,636	68,091	77,727	10,118	71,496	81,614	1.39%	1.09%	1.13%	1.39%	1.09%	1.13%	1.39%	1.09%
2028	9,284	65,446	74,730	9,773	68,890	78,663	10,261	72,335	82,596	1.42%	1.17%	1.20%	1.42%	1.17%	1.20%	1.42%	1.17%
2029	9,381	66,172	75,553	9,875	69,655	79,529	10,369	73,137	83,506	1.05%	1.11%	1.10%	1.05%	1.11%	1.10%	1.05%	1.11%
2030	9,448	66,949	75,397	9,945	69,420	79,365	10,443	72,891	83,334	0.71%	-0.34%	-0.21%	0.71%	-0.34%	-0.21%	0.71%	-0.34%
2031	9,513	66,695	76,209	10,014	70,205	80,220	10,515	73,716	84,231	0.69%	1.13%	1.08%	0.69%	1.13%	1.08%	0.69%	1.13%
2032	9,636	68,454	78,090	10,143	72,057	82,200	10,650	76,310	86,130	1.29%	2.64%	2.47%	1.29%	2.64%	2.47%	1.29%	2.64%
2033	9,766	69,147	78,913	10,280	72,786	83,067	10,794	76,426	87,220	1.35%	1.01%	1.05%	1.35%	1.01%	1.05%	1.35%	1.01%
2034	9,866	69,870	79,736	10,385	73,547	83,933	10,905	77,225	88,130	1.02%	1.05%	1.04%	1.02%	1.05%	1.04%	1.02%	1.05%
2035	9,954	70,595	80,558	10,488	74,310	84,799	11,013	78,026	89,039	0.99%	1.04%	1.03%	0.99%	1.04%	1.03%	0.99%	1.04%
2036	9,994	70,415	80,409	10,520	74,122	84,641	11,045	77,828	88,873	0.30%	-0.25%	-0.19%	0.30%	-0.25%	-0.19%	0.30%	-0.25%
2037	10,087	72,190	82,277	10,618	75,989	86,607	11,148	79,789	90,937	0.93%	2.52%	2.32%	0.93%	2.52%	2.32%	0.93%	2.52%
2038	10,217	72,883	83,100	10,754	76,719	87,473	11,292	80,555	91,847	1.29%	0.96%	1.00%	1.29%	0.96%	1.00%	1.29%	0.96%
2039	10,350	73,572	83,922	10,894	77,445	88,339	11,439	81,317	92,756	1.30%	0.95%	0.99%	1.30%	0.95%	0.99%	1.30%	0.95%
2040	10,448	74,372	84,819	10,998	78,286	89,284	11,547	82,200	93,748	0.95%	1.09%	1.07%	0.95%	1.09%	1.07%	0.95%	1.09%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	5,222,800	3,902,764	9,125,564	5,497,684	4,108,172	9,605,856	5,772,568	4,313,581	10,086,149	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,292,310	3,945,132	9,237,442	5,570,852	4,152,771	9,723,623	5,849,395	4,360,409	10,209,805	1.33%	1.09%	1.23%	1.33%	1.09%	1.23%	1.33%	1.09%
2023	5,362,310	3,986,472	9,348,781	5,644,536	4,196,286	9,840,822	5,926,763	4,406,100	10,332,863	1.32%	1.05%	1.21%	1.32%	1.05%	1.21%	1.32%	1.05%
2024	5,456,273	4,044,478	9,500,752	5,743,445	4,257,346	10,000,791	6,030,617	4,470,213	10,500,830	1.75%	1.46%	1.63%	1.75%	1.46%	1.63%	1.75%	1.46%
2025	5,503,127	4,069,798	9,572,924	5,792,765	4,283,997	10,076,762	6,082,403	4,498,197	10,580,601	0.86%	0.83%	0.76%	0.86%	0.83%	0.76%	0.86%	0.83%
2026	5,573,140	4,111,198	9,684,337	5,866,462	4,327,577	10,194,039	6,159,786	4,549,955	10,703,741	1.27%	1.02%	1.17%	1.27%	1.02%	1.17%	1.27%	1.02%
2027	5,643,152	4,152,620	9,795,772	5,940,161	4,371,179	10,311,339	6,237,168	4,589,738	10,826,906	1.26%	1.01%	1.15%	1.26%	1.01%	1.15%	1.26%	1.01%
2028	5,736,311	4,210,186	9,946,916	6,038,664	4,431,774	10,470,438	6,340,597	4,653,363	10,993,960	1.66%	1.39%	1.54%	1.66%	1.39%	1.54%	1.66%	1.39%
2029	5,783,454	4,235,732	10,019,186	6,087,846	4,458,666	10,546,512	6,392,238	4,681,599	11,073,837	0.81%	0.61%	0.73%	0.81%	0.61%	0.73%	0.81%	0.61%
2030	5,853,467	4,277,228	10,130,695	6,161,544	4,502,346	10,663,890	6,469,621	4,727,363	11,197,084	1.21%	0.98%	1.11%	1.21%	0.98%	1.11%	1.21%	0.98%
2031	5,923,479	4,318,747	10,242,226	6,235,242	4,546,049	10,781,291	6,547,004	4,773,351	11,320,355	1.20%	0.97%	1.10%	1.20%	0.97%	1.10%	1.20%	0.97%
2032	6,019,345	4,377,399	10,397,284	6,336,152	4,608,357	10,944,509	6,652,960	4,838,775	11,491,734	1.62%	1.37%	1.51%	1.62%	1.37%	1.51%	1.62%	1.37%
2033	6,063,219	4,401,629	10,464,848	6,382,335	4,633,294	11,015,629	6,701,452	4,864,959	11,566,411	0.73%	0.54%	0.65%	0.73%	0.54%	0.65%	0.73%	0.54%
2034	6,133,218	4,443,213	10,576,431	6,456,019	4,677,066	11,133,085	6,778,820	4,910,920	11,689,740	1.15%	0.94%	1.07%	1.15%	0.94%	1.07%	1.15%	0.94%
2035	6,203,807	4,485,264	10,689,070	6,530,323	4,721,331	11,251,654	6,856,839	4,957,397	11,814,236	1.15%	0.95%	1.07%	1.15%	0.95%	1.07%	1.15%	0.95%
2036	6,300,874	4,545,247	10,846,120	6,632,499	4,784,470	11,416,968	6,946,124	5,023,694	11,987,817	1.56%	1.34%	1.47%	1.56%	1.34%	1.47%	1.5	



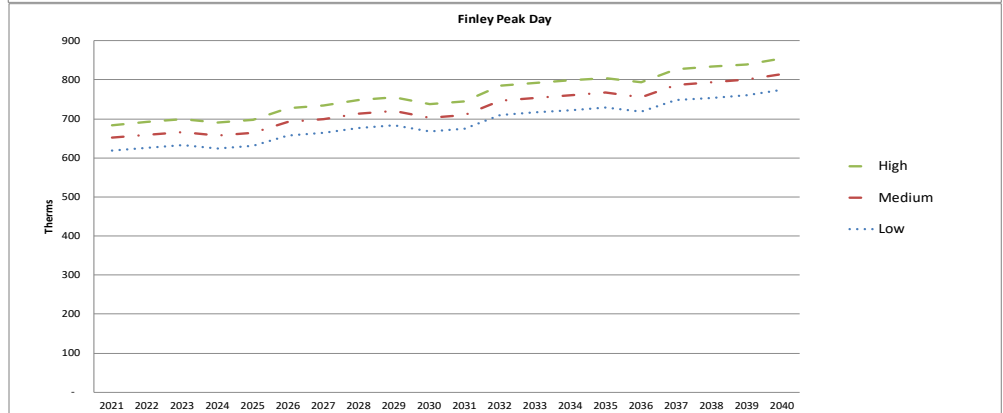
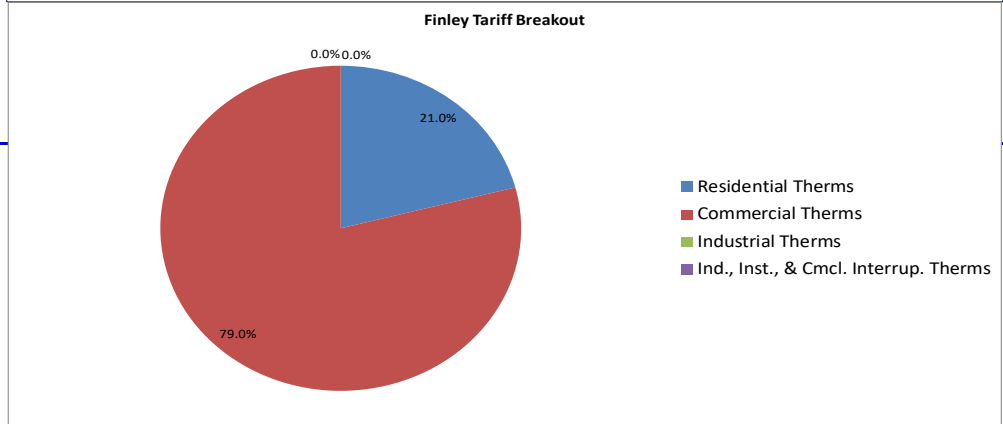
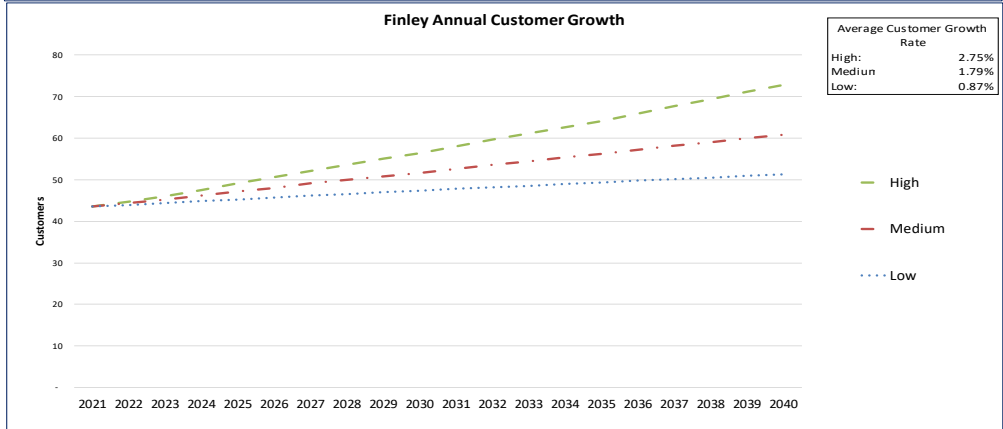
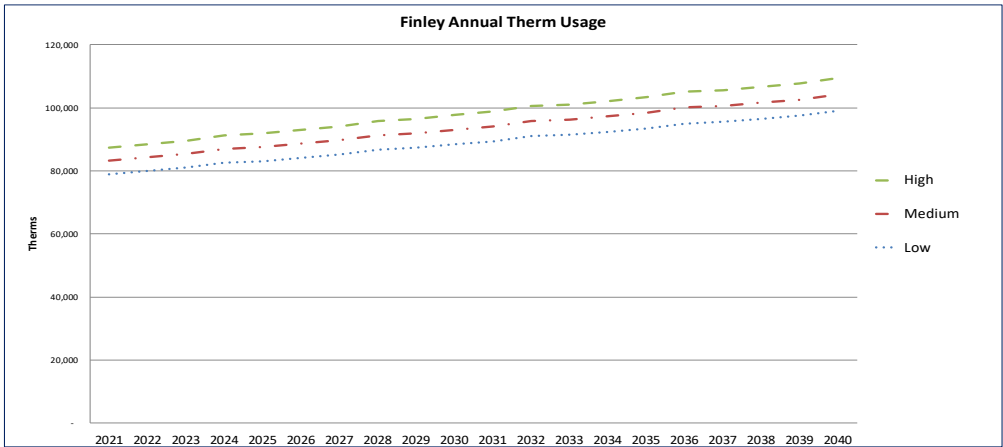
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Finley												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	71,356	7,678	79,034	75,112	8,082	83,194	78,867	8,486	87,354	0.00%	0.00%	0.00%
2022	72,212	7,882	80,094	76,013	8,297	84,310	79,813	8,712	88,525	1.20%	2.66%	1.34%
2023	78,722	2,363	81,086	82,866	2,488	85,354	87,009	2,612	89,621	9.02%	-70.01%	1.24%
2024	80,558	2,046	82,604	84,798	2,153	86,951	89,038	2,261	91,299	2.33%	-13.45%	1.87%
2025	75,068	8,083	83,151	79,019	8,508	87,527	83,970	9,163	91,904	-6.81%	295.15%	0.66%
2026	75,905	8,291	84,195	79,900	8,727	88,627	83,895	9,163	93,058	1.11%	2.57%	1.26%
2027	76,732	8,502	85,234	80,771	8,950	89,720	84,809	9,397	94,206	1.09%	2.55%	1.23%
2028	84,503	2,221	86,725	88,951	2,338	91,289	93,399	2,455	95,854	10.13%	-73.87%	1.75%
2029	82,393	4,927	87,320	86,729	5,186	91,916	91,066	5,446	96,512	-2.50%	121.80%	0.69%
2030	86,014	2,365	88,379	90,541	2,489	93,030	95,068	2,613	97,682	4.40%	-52.01%	1.21%
2031	80,496	8,927	89,422	84,732	9,396	94,129	88,969	9,866	98,835	-6.42%	277.52%	1.18%
2032	82,271	8,696	90,966	86,601	9,153	95,754	90,931	9,611	100,542	2.21%	-2.59%	1.73%
2033	82,531	8,908	91,439	86,875	9,377	96,251	91,218	9,845	101,064	0.32%	2.44%	0.52%
2034	89,850	2,607	92,456	94,578	2,744	97,322	99,307	2,881	102,188	8.87%	-70.74%	1.11%
2035	88,032	5,471	93,504	92,666	5,759	98,425	97,299	6,047	103,346	-2.02%	109.89%	1.13%
2036	85,979	9,096	95,075	90,504	9,575	100,079	95,029	10,053	105,082	-2.33%	66.25%	1.68%
2037	86,202	9,312	95,513	90,758	9,802	100,560	95,296	10,292	105,588	0.28%	2.38%	0.48%
2038	87,004	9,533	96,536	91,583	10,035	101,617	96,162	10,536	106,698	0.91%	2.37%	1.05%
2039	87,765	9,758	97,524	92,384	10,272	102,656	97,004	10,786	107,789	0.88%	2.37%	1.02%
2040	97,323	1,805	99,128	102,445	1,900	104,345	107,567	1,995	109,562	10.89%	-81.50%	1.64%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	21	598	619	22	629	652	23	661	684	0.00%	0.00%	0.00%
2022	22	604	626	23	636	659	24	668	692	2.66%	1.04%	1.10%
2023	6	625	632	7	658	665	7	691	698	-70.01%	3.52%	0.98%
2024	6	618	624	6	651	657	6	683	690	-13.45%	-1.13%	-1.26%
2025	24	608	630	23	640	663	24	672	697	295.15%	-1.67%	0.99%
2026	23	625	638	24	668	692	25	702	727	2.57%	4.40%	4.34%
2027	23	641	664	25	674	699	26	708	734	2.55%	0.93%	0.99%
2028	6	671	677	6	706	713	7	742	748	-73.87%	4.73%	1.97%
2029	13	670	684	14	705	720	15	741	756	121.80%	-0.14%	0.96%
2030	6	662	668	7	696	703	7	731	738	-52.01%	-1.28%	-1.28%
2031	24	650	674	26	684	710	27	718	745	277.52%	-1.79%	0.92%
2032	24	686	710	25	722	747	26	758	784	-2.59%	5.58%	5.28%
2033	24	692	716	26	728	754	27	764	791	2.44%	0.83%	0.88%
2034	7	715	722	8	753	760	8	790	798	-70.74%	3.39%	0.86%
2035	15	713	728	16	751	767	17	788	805	109.89%	-0.25%	0.84%
2036	25	693	718	26	730	756	28	766	794	66.25%	-2.82%	-1.40%
2037	26	722	748	27	760	787	28	798	826	2.38%	4.20%	4.14%
2038	26	728	754	27	766	793	29	804	833	2.37%	0.75%	0.81%
2039	27	733	760	28	772	800	30	810	840	2.37%	0.74%	0.80%
2040	5	769	773	5	809	814	5	849	855	-81.50%	4.84%	1.80%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	16,762	62,272	79,034	17,645	65,549	83,194	18,527	68,827	87,354	0.00%	0.00%	0.00%
2022	17,002	63,092	80,094	17,897	66,413	84,310	18,792	69,733	88,525	1.43%	1.32%	1.34%
2023	17,240	63,846	81,086	18,148	67,206	85,354	19,055	70,566	89,621	1.40%	1.19%	1.24%
2024	17,582	65,022	82,604	18,507	68,444	86,951	19,433	71,866	91,299	1.98%	1.84%	1.87%
2025	17,728	65,423	83,151	18,661	68,866	87,527	19,594	72,310	91,904	0.83%	0.62%	0.66%
2026	17,974	66,222	84,195	18,920	69,707	88,627	19,866	73,192	93,058	1.39%	1.22%	1.26%
2027	18,220	67,014	85,234	19,179	70,541	89,720	20,138	74,068	94,206	1.37%	1.20%	1.23%
2028	18,560	68,165	86,725	19,537	71,753	91,289	20,514	75,340	95,854	1.87%	1.72%	1.87%
2029	18,715	68,605	87,320	19,700	72,216	91,916	20,685	75,827	96,512	0.83%	0.65%	0.69%
2030	18,964	69,414	88,379	19,962	73,068	93,030	20,960	76,721	97,682	1.33%	1.18%	1.33%
2031	19,214	70,208	89,422	20,226	73,903	94,129	21,237	77,598	98,835	1.32%	1.14%	1.18%
2032	19,572	71,394	90,966	20,602	75,152	95,754	21,632	78,910	100,542	1.86%	1.69%	1.73%
2033	19,709	71,729	91,439	20,747	75,505	96,251	21,784	79,280	101,064	0.70%	0.47%	0.52%
2034	19,960	72,496	92,456	21,011	76,312	97,322	22,061	80,127	102,188	1.27%	1.07%	1.11%
2035	20,216	73,287	93,504	21,280	77,145	98,425	22,344	81,002	103,346	1.28%	1.09%	1.13%
2036	20,583	74,492	95,075	21,666	78,413	100,079	22,749	82,333	105,082	1.81%	1.64%	1.68%
2037	20,722	74,810	95,532	21,812	78,748	100,560	22,903	82,685	105,588	0.68%	0.43%	0.48%
2038	20,976	75,561	96,536	22,080	79,537	101,617	23,184	83,514	106,698	1.23%	1.00%	1.05%
2039	21,226	76,298	97,524	22,343	80,313	102,656	23,460	84,329	107,789	1.19%	0.98%	1.02%
2040	21,602	77,526	99,128	22,739	81,606	104,345	23,876	85,687	109,562	1.77%	1.61%	1.64%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	31	13	44	31	13	44	31	13	44	0.00%	0.00%	0.00%
2022	31	13	44	31	13	44	32	13	45	1.37%	0.00%	2.73%
2023	31	13	44	32	13	45	33	13	46	1.33%	0.00%	3.99%
2024	32	13	45	33	13	46	35	13	48	1.55%	0.00%	4.66%
2025	32	13	45	34	13	47	36	13	49	1.51%	0.00%	4.52%
2026	33	13	46	35	13	48	38	13	51	1.34%	0.00%	4.02%
2027	33	13	46	36	13	49	39	13	52	1.43%	0.00%	4.28%
2028	34	13	47	37	13	50	41	13	54	1.15%	0.00%	4.32%
2029	34	13	47	38	13	51	42	13	55	1.24%	0.00%	4.28%
2030	34	13	47	39	13	52	43	13	56	1.10%	0.00%	4.30%
2031	35	13	48	40	13	53	45	13	58	1.19%	0.00%	4.37%
2032	35	13	48	41	13	54	47	13	60	1.26%	0.00%	4.39%
2033	36	13	49	41	13	54	48	13	61	1.03%	0.00%	4.38%
2034	36	13	49	42	13	55	50	13	63	1.11%	0.00%	4.32%
2035	36	13	49	43	13	56	51	13	64	0.98%	0.00%	4.37%
2036	37	13	50	44	13	57	53	13	66	1.16%	0.00%	4.32%
2037	37	13	50	45	13	58	55	13	68	1.13%	0.00%	4.26%
2038	38	13	51	46	13	59	56	13	69	1.01%	0.00%	4.28%
2039	38	13	51	47	13	60	58	13	71	1.08%	0.00%	4.35%
2040	38	13	51	48	13	61	60	13	73	0.88%	0.00%	4.39%

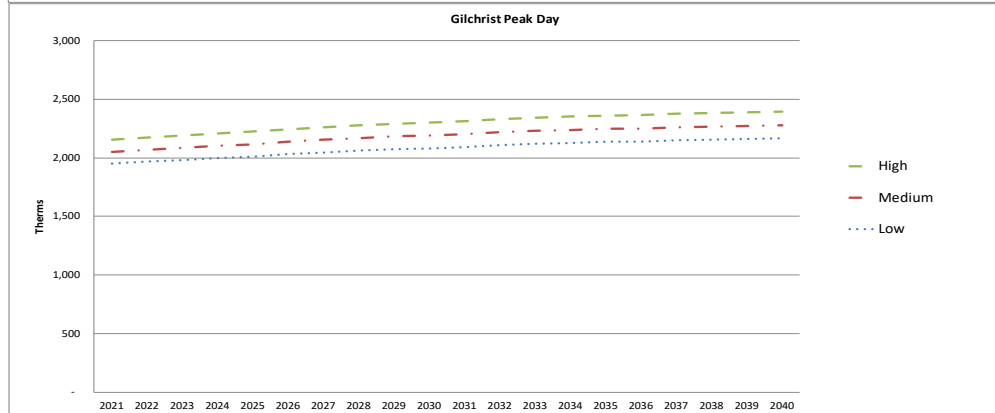
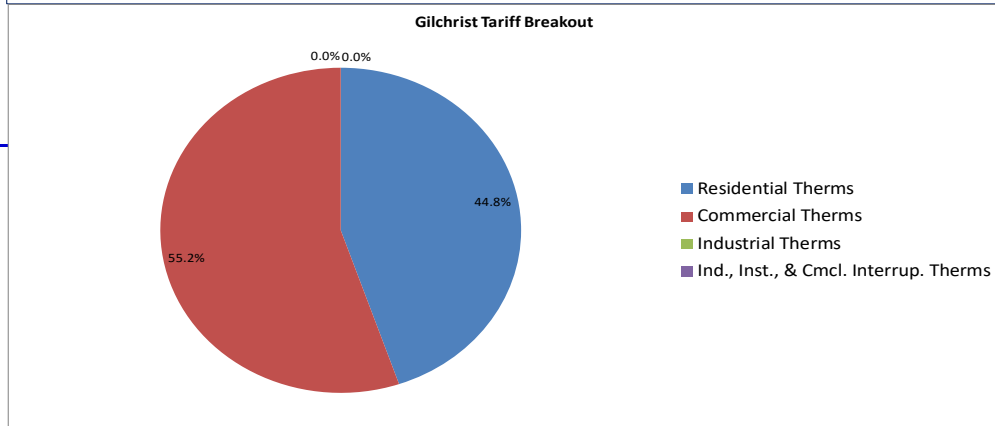
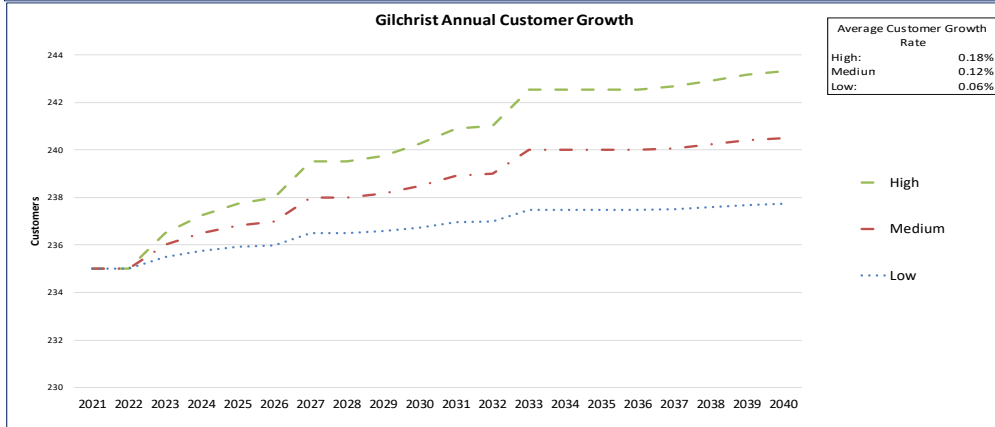
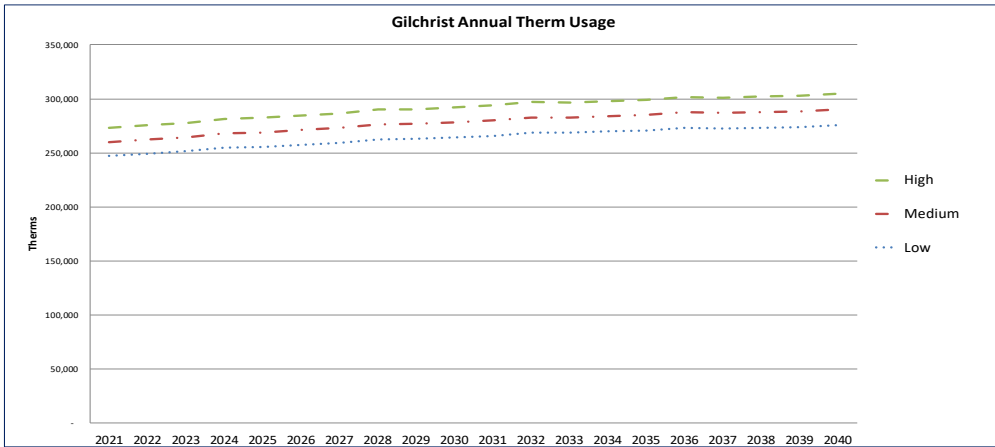


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Gilchrist	Annual Requirements (Therms)										Annual Change								
	Low			Medium			High			Low			Medium			High			
	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	196,882	50,180	247,063	207,245	52,822	260,066	217,607	55,463	273,069	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	198,706	50,540	249,246	209,164	53,199	262,364	219,623	55,859	275,482	0.93%	0.72%	0.88%	0.93%	0.72%	0.88%	0.93%	0.72%	0.88%	0.93%
2023	200,453	50,949	251,402	211,003	53,630	264,633	221,553	56,312	277,865	0.88%	0.81%	0.86%	0.88%	0.81%	0.86%	0.88%	0.81%	0.86%	0.88%
2024	203,244	51,585	254,828	213,941	54,300	268,240	224,638	57,015	281,652	1.39%	1.25%	1.36%	1.39%	1.25%	1.36%	1.39%	1.25%	1.36%	1.39%
2025	203,591	51,971	255,562	214,306	54,706	269,012	225,021	57,442	282,463	0.17%	0.29%	0.38%	0.17%	0.29%	0.38%	0.17%	0.29%	0.38%	0.17%
2026	205,177	52,339	257,516	215,976	55,093	271,069	226,775	57,848	284,623	0.78%	0.71%	0.76%	0.78%	0.71%	0.76%	0.78%	0.71%	0.76%	0.78%
2027	206,763	52,633	259,396	217,645	55,403	273,048	228,527	58,173	286,700	0.77%	0.56%	0.73%	0.77%	0.56%	0.73%	0.77%	0.56%	0.73%	0.77%
2028	209,488	53,029	262,517	220,514	55,820	276,334	231,540	58,611	290,151	1.32%	0.75%	1.20%	1.32%	0.75%	1.20%	1.32%	0.75%	1.20%	1.32%
2029	209,452	53,398	262,850	220,475	56,209	276,684	231,499	59,019	290,518	-0.02%	0.70%	1.13%	-0.02%	0.70%	1.13%	-0.02%	0.70%	1.13%	0.01%
2030	210,691	53,751	264,443	221,780	56,580	278,361	232,869	59,409	292,279	0.59%	0.66%	0.61%	0.59%	0.66%	0.61%	0.59%	0.66%	0.61%	0.59%
2031	211,897	54,021	265,919	223,050	56,864	279,914	234,202	59,708	293,910	0.57%	0.50%	0.56%	0.57%	0.50%	0.56%	0.57%	0.50%	0.56%	0.57%
2032	214,359	54,341	268,700	225,641	57,201	282,842	236,923	60,061	296,984	1.16%	0.59%	1.05%	1.16%	0.59%	1.05%	1.16%	0.59%	1.05%	1.16%
2033	214,067	54,504	268,571	225,333	57,373	282,706	236,600	60,241	296,841	-0.14%	0.30%	-0.05%	-0.14%	0.30%	-0.05%	-0.14%	0.30%	-0.05%	-0.14%
2034	215,029	54,709	269,739	226,347	57,589	283,935	237,664	60,468	298,132	0.45%	0.38%	0.43%	0.45%	0.38%	0.43%	0.45%	0.38%	0.43%	0.45%
2035	215,842	54,953	270,795	227,202	57,845	285,047	238,562	60,738	299,300	0.38%	0.45%	0.39%	0.38%	0.45%	0.39%	0.38%	0.45%	0.39%	0.38%
2036	217,829	55,302	273,131	229,294	58,213	287,507	240,758	61,124	301,892	0.92%	0.64%	0.86%	0.92%	0.64%	0.86%	0.92%	0.64%	0.86%	0.92%
2037	217,095	55,433	272,528	228,521	58,350	286,872	239,947	61,268	301,215	-0.34%	0.24%	-0.22%	-0.34%	0.24%	-0.22%	-0.34%	0.24%	-0.22%	-0.34%
2038	217,756	55,483	273,239	229,217	58,403	287,620	240,678	61,323	302,001	0.30%	0.09%	0.26%	0.30%	0.09%	0.26%	0.30%	0.09%	0.26%	0.30%
2039	218,336	55,514	273,849	229,827	58,435	288,262	241,318	61,357	302,675	0.27%	0.06%	0.22%	0.27%	0.06%	0.22%	0.27%	0.06%	0.22%	0.27%
2040	220,039	55,789	275,828	231,620	58,725	290,345	243,201	61,661	304,862	0.78%	0.50%	0.72%	0.78%	0.50%	0.72%	0.78%	0.50%	0.72%	0.78%

Gilchrist	Peak Day - BaseLoad									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	137	1,813	1,950	145	1,908	2,053	152	2,003	2,155	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	138	1,828	1,967	146	1,925	2,070	153	2,021	2,174	0.72%	0.87%	0.86%	0.72%	0.87%	0.86%	0.72%	0.87%	0.86%
2023	140	1,844	1,983	147	1,941	2,088	154	2,038	2,192	0.81%	0.84%	0.84%	0.81%	0.84%	0.84%	0.81%	0.84%	0.84%
2024	141	1,855	1,996	149	1,952	2,101	156	2,050	2,206	1.25%	0.60%	0.64%	1.25%	0.60%	0.64%	1.25%	0.60%	0.64%
2025	142	1,869	2,011	150	1,968	2,118	157	2,066	2,224	0.75%	0.79%	0.79%	0.75%	0.79%	0.79%	0.75%	0.79%	0.79%
2026	143	1,888	2,032	151	1,988	2,139	158	2,087	2,246	0.71%	1.01%	0.99%	0.71%	1.01%	0.99%	0.71%	1.01%	0.99%
2027	144	1,902	2,046	152	2,002	2,154	159	2,102	2,261	0.56%	0.72%	0.71%	0.56%	0.72%	0.71%	0.56%	0.72%	0.71%
2028	145	1,916	2,061	153	2,017	2,170	161	2,118	2,278	0.75%	0.74%	0.74%	0.75%	0.74%	0.74%	0.75%	0.74%	0.74%
2029	146	1,928	2,074	154	2,029	2,183	162	2,131	2,292	0.70%	0.61%	0.62%	0.70%	0.61%	0.62%	0.70%	0.61%	0.62%
2030	147	1,934	2,081	155	2,035	2,190	163	2,137	2,300	0.66%	0.31%	0.34%	0.66%	0.31%	0.34%	0.66%	0.31%	0.34%
2031	148	1,944	2,092	156	2,046	2,202	164	2,149	2,312	0.50%	0.54%	0.54%	0.50%	0.54%	0.54%	0.50%	0.54%	0.54%
2032	149	1,960	2,109	157	2,064	2,220	165	2,167	2,331	0.59%	0.85%	0.83%	0.59%	0.85%	0.83%	0.59%	0.85%	0.83%
2033	149	1,970	2,119	157	2,073	2,230	165	2,177	2,342	0.30%	0.46%	0.45%	0.30%	0.46%	0.45%	0.30%	0.46%	0.45%
2034	150	1,978	2,128	158	2,082	2,240	166	2,186	2,352	0.38%	0.42%	0.41%	0.38%	0.42%	0.41%	0.38%	0.42%	0.41%
2035	151	1,985	2,135	158	2,089	2,248	166	2,194	2,360	0.45%	0.36%	0.37%	0.45%	0.36%	0.37%	0.45%	0.36%	0.37%
2036	152	1,987	2,139	159	2,092	2,251	167	2,196	2,364	0.64%	0.12%	0.15%	0.64%	0.12%	0.15%	0.64%	0.12%	0.15%
2037	152	1,998	2,150	160	2,103	2,263	168	2,208	2,376	0.24%	0.55%	0.52%	0.24%	0.55%	0.52%	0.24%	0.55%	0.52%
2038	152	2,003	2,155	160	2,108	2,269	168	2,214	2,382	0.09%	0.25%	0.24%	0.09%	0.25%	0.24%	0.09%	0.25%	0.24%
2039	152	2,007	2,159	160	2,113	2,273	168	2,219	2,387	0.06%	0.22%	0.20%	0.06%	0.22%	0.20%	0.06%	0.22%	0.20%
2040	153	2,012	2,165	161	2,118	2,279	169	2,224	2,393	0.50%	0.24%	0.26%	0.50%	0.24%	0.26%	0.50%	0.24%	0.26%

Gilchrist	Therms Usage by Class												Annual Change											
	Low				Medium				High				Low				Medium				High			
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total			
2021	111,303	136,760	247,063	117,161	142,905	260,066	123,019	150,550	273,069	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	112,340	136,906	249,246	118,253	144,111	262,364	124,165	151,317	275,482	0.93%	0.84%	0.88%	0.93%	0.84%	0.88%	0.93%	0.84%	0.88%	0.93%	0.84%	0.88%			
2023	113,363	138,038	251,402	119,330	145,303	264,633	125,296	152,568	277,865	0.91%	0.83%	0.86%	0.91%	0.83%	0.86%	0.91%	0.83%	0.86%	0.91%	0.83%	0.86%			
2024	114,921	139,907	254,828	120,969	147,271	268,240	127,018	154,634	281,652	1.37%	1.35%	1.36%	1.37%	1.35%	1.36%	1.37%	1.35%	1.36%	1.37%	1.35%	1.36%			
2025	115,339	140,223	255,562	121,410	147,603	269,012	127,480	154,983	282,463	0.36%	0.23%	0.29%	0.36%	0.23%	0.29%	0.36%	0.23%	0.29%	0.36%	0.23%	0.29%			
2026	116,267	141,249	257,516	122,386	148,683	271,069	128,505	156,118	284,623	0.80%	0.73%	0.76%	0.80%	0.73%	0.76%	0.80%	0.73%	0.76%	0.80%	0.73%	0.76%			
2027	117,159	142,237	259,396	123,325	149,723	273,048	129,491	157,209	286,700	0.77%	0.70%	0.73%	0.77%	0.70%	0.73%	0.77%	0.70%	0.73%	0.77%	0.70%	0.73%			
2028	118,572	143,945	262,517	124,813	151,521	276,334	131,053	159,097	290,151	1.21%	1.20%	1.21%	1.21%	1.20%	1.21%	1.21%	1.20%	1.21%	1.21%	1.20%	1.21%			
2029	118,800	144,050	262,850	125,052	151,632	276,684	131,305	159,213	290,518	0.19%	0.07%	0.13%	0.19%	0.07%	0.13%	0.19%	0.07%	0.13%	0.19%	0.07%	0.13%			
2030	119,556	144,887	264,443	125,848	152,512	278,361	132,141	160,138	292,279	0.64%	0.58%	0.61%	0.64%	0.58%	0.61%	0.64%	0.58%	0.61%	0.64%	0.58%	0.61%			

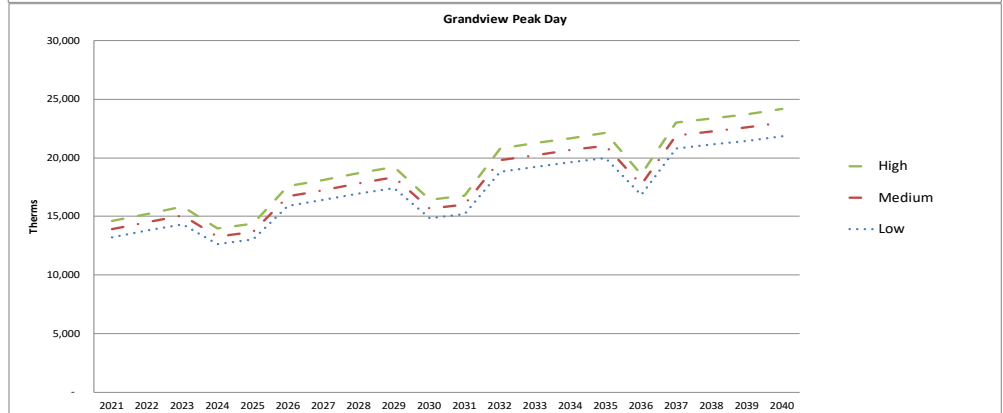
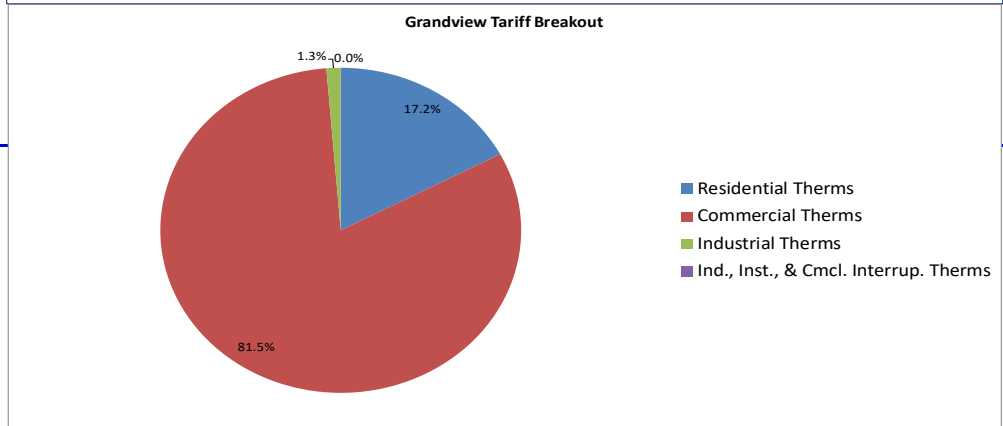
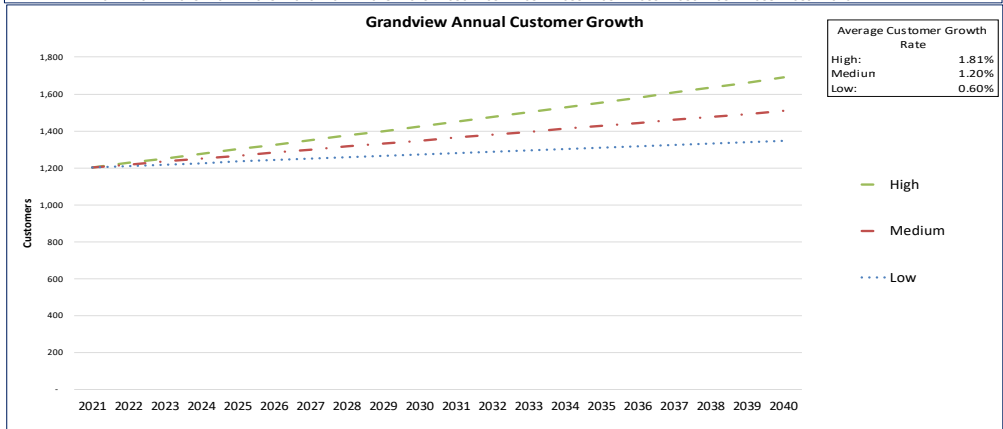
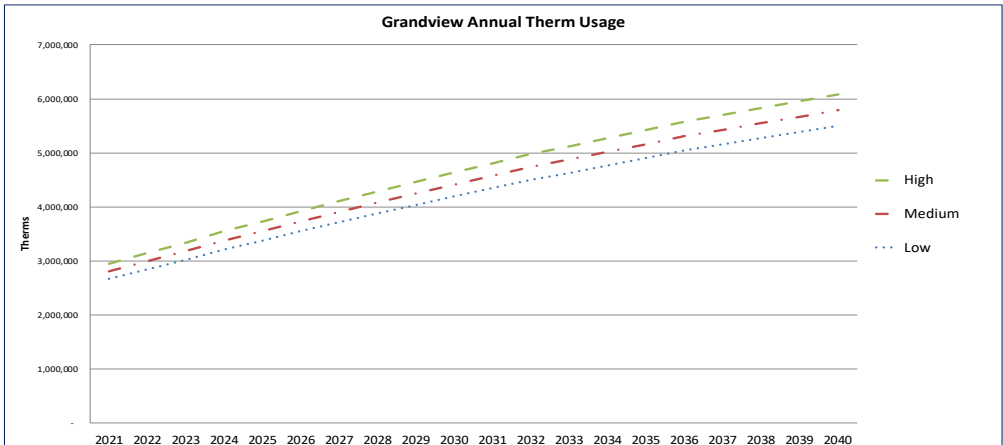


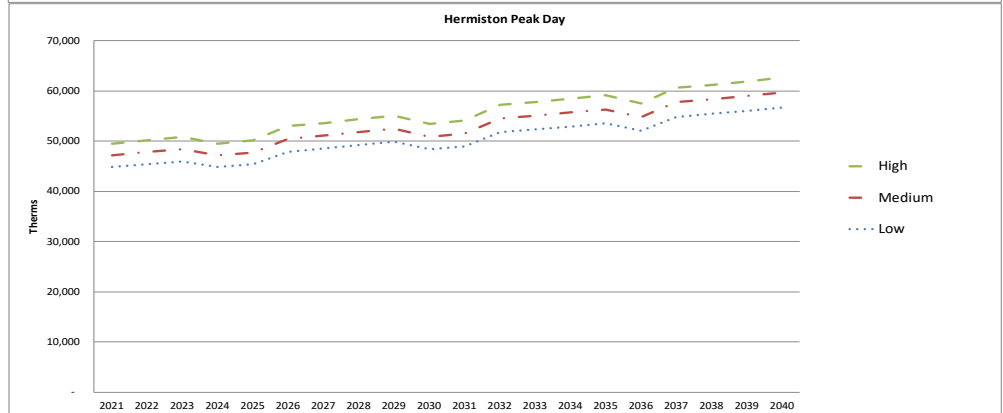
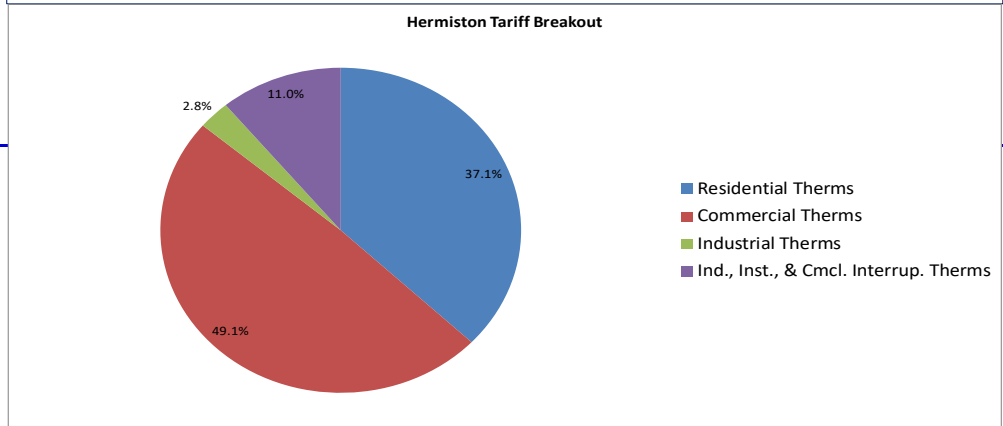
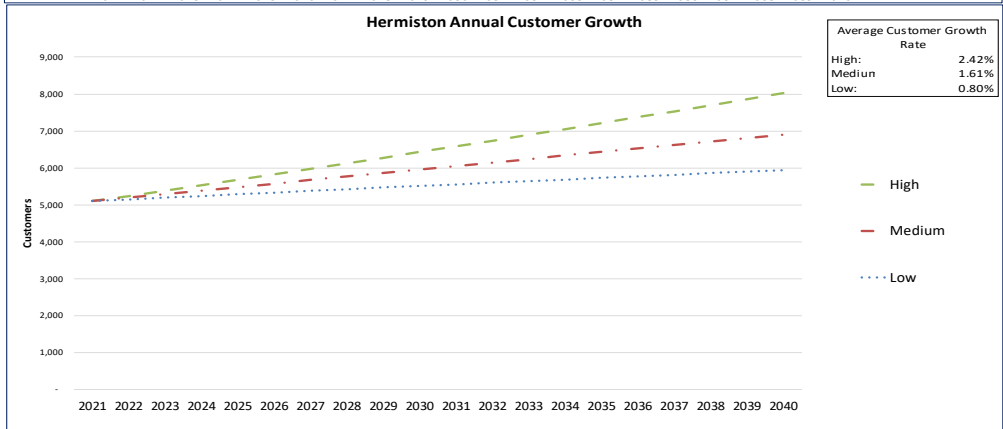
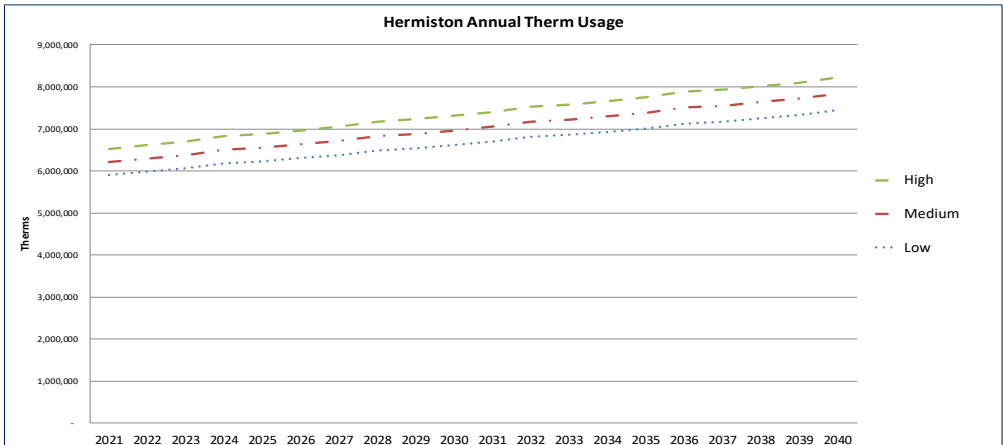
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Grandview																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,008,562	660,456	2,669,018	2,114,276	695,217	2,809,492	2,219,990	729,977	2,949,967	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,143,097	704,037	2,847,134	2,255,892	741,091	2,996,983	2,368,686	778,146	3,146,832	6.70%	6.60%	6.67%	6.70%	6.60%	6.67%	6.70%	6.67%
2023	2,037,246	988,428	3,025,673	2,144,469	1,040,450	3,184,920	2,251,693	1,092,473	3,344,165	-4.94%	40.39%	6.27%	-4.94%	40.39%	6.27%	-4.94%	40.39%
2024	2,151,011	1,061,412	3,212,423	2,264,222	1,117,276	3,381,499	2,377,433	1,173,140	3,550,573	5.58%	7.38%	6.17%	5.58%	7.38%	6.17%	5.58%	7.38%
2025	2,264,705	1,114,477	3,379,183	2,385,900	1,173,134	3,557,034	2,503,095	1,231,791	3,734,886	5.29%	5.00%	5.19%	5.29%	5.00%	5.19%	5.29%	5.00%
2026	2,626,647	923,506	3,550,153	2,764,892	972,112	3,737,004	2,903,137	1,020,717	3,923,854	15.98%	-17.14%	5.06%	15.98%	-17.14%	5.06%	15.98%	-17.14%
2027	2,763,940	953,836	3,717,776	2,909,411	1,004,037	3,913,448	3,054,881	1,054,239	4,109,121	5.23%	3.28%	4.72%	5.23%	3.28%	4.72%	5.23%	3.28%
2028	2,563,129	1,321,628	3,884,757	2,698,030	1,391,188	4,089,218	2,832,932	1,460,747	4,293,679	-7.27%	38.56%	4.49%	-7.27%	38.56%	4.49%	-7.27%	38.56%
2029	2,642,572	1,398,509	4,041,081	2,781,655	1,472,115	4,253,769	2,920,738	1,545,720	4,466,458	3.10%	5.82%	4.02%	3.10%	5.82%	4.02%	3.10%	5.82%
2030	2,733,967	1,462,940	4,196,907	2,877,859	1,539,937	4,417,797	3,021,752	1,616,934	4,638,687	3.46%	4.61%	3.86%	3.46%	4.61%	3.86%	3.46%	4.61%
2031	2,855,291	1,493,110	4,348,401	3,005,569	1,571,695	4,577,264	3,155,847	1,650,280	4,806,127	4.44%	2.06%	3.61%	4.44%	2.06%	3.61%	4.44%	2.06%
2032	3,315,378	1,190,007	4,505,385	3,489,872	1,252,639	4,742,511	3,664,365	1,315,271	4,979,636	16.11%	-20.30%	3.61%	16.11%	-20.30%	3.61%	16.11%	-20.30%
2033	3,420,480	1,214,088	4,634,568	3,600,505	1,277,988	4,878,493	3,780,531	1,341,887	5,122,418	3.17%	2.02%	2.87%	3.17%	2.02%	2.87%	3.17%	2.02%
2034	3,092,822	1,679,381	4,772,203	3,255,602	1,767,770	5,023,372	3,418,382	1,856,158	5,274,540	-9.58%	38.32%	2.97%	-9.58%	38.32%	2.97%	-9.58%	38.32%
2035	3,157,240	1,751,008	4,908,248	3,323,411	1,843,166	5,166,577	3,489,591	1,935,234	5,424,906	2.08%	4.27%	2.85%	2.08%	4.27%	2.85%	2.08%	4.27%
2036	3,278,783	1,767,765	5,046,548	3,451,350	1,860,805	5,312,156	3,623,918	1,953,845	5,577,763	3.85%	0.96%	2.82%	3.85%	0.96%	2.82%	3.85%	0.96%
2037	3,756,508	1,401,288	5,157,796	3,954,219	1,475,040	5,429,259	4,151,930	1,548,792	5,700,722	14.57%	-20.73%	2.20%	14.57%	-20.73%	2.20%	14.57%	-20.73%
2038	3,873,001	1,402,387	5,275,388	4,076,843	1,476,197	5,553,040	4,280,865	1,550,062	5,830,962	3.10%	0.08%	2.28%	3.10%	0.08%	2.28%	3.10%	0.08%
2039	3,970,611	1,414,398	5,385,009	4,179,590	1,488,840	5,668,430	4,388,570	1,562,282	5,951,851	2.52%	0.86%	2.08%	2.52%	0.86%	2.08%	2.52%	0.86%
2040	3,530,182	1,976,226	5,506,407	3,715,981	2,080,238	5,796,218	3,901,779	2,184,250	6,086,029	-11.09%	39.72%	2.25%	-11.09%	39.72%	2.25%	-11.09%	39.72%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	1,809	11,437	13,247	1,905	12,039	13,944	2,000	12,641	14,641	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,929	11,851	13,780	2,030	12,475	14,505	2,132	13,098	15,230	6.60%	3.61%	4.02%	6.60%	3.61%	4.02%	6.60%	3.61%
2023	2,708	11,600	14,308	2,851	12,210	15,061	2,993	12,821	15,814	40.39%	-2.12%	3.83%	40.39%	-2.12%	3.83%	40.39%	-2.12%
2024	2,908	9,727	12,635	3,061	10,239	13,300	3,214	10,751	13,965	7.38%	-16.14%	-11.69%	7.38%	-16.14%	-11.69%	7.38%	-16.14%
2025	3,053	9,965	13,018	3,214	10,489	13,704	3,375	11,014	14,389	5.00%	2.47%	3.03%	5.00%	2.47%	3.03%	5.00%	2.47%
2026	2,530	13,376	15,906	2,663	14,080	16,743	2,796	14,784	17,580	-17.14%	34.23%	22.18%	-17.14%	34.23%	22.18%	-17.14%	34.23%
2027	2,613	13,786	16,399	2,751	14,511	17,262	2,888	15,237	18,125	3.28%	3.06%	3.10%	3.28%	3.06%	3.10%	3.28%	3.06%
2028	3,621	13,323	16,944	3,811	14,024	17,836	4,002	14,725	18,727	38.56%	-3.36%	3.32%	38.56%	-3.36%	3.32%	38.56%	-3.36%
2029	3,832	13,580	17,412	4,033	14,295	18,328	4,235	15,010	19,244	5.82%	1.93%	2.76%	5.82%	1.93%	2.76%	5.82%	1.93%
2030	4,008	10,860	14,868	4,219	11,432	15,651	4,430	12,044	16,434	4.61%	-20.03%	-14.61%	4.61%	-20.03%	-14.61%	4.61%	-20.03%
2031	4,091	11,106	15,197	4,306	11,691	15,997	4,521	12,276	16,797	2.06%	2.27%	2.21%	2.06%	2.27%	2.21%	2.06%	2.27%
2032	3,260	15,549	18,809	3,432	16,367	19,799	3,603	17,160	20,789	-20.30%	40.00%	23.77%	-20.30%	40.00%	23.77%	-20.30%	40.00%
2033	3,326	15,897	19,223	3,501	16,734	20,235	3,676	17,570	21,247	2.02%	2.24%	2.20%	2.02%	2.24%	2.20%	2.02%	2.24%
2034	4,601	15,022	19,623	4,843	15,812	20,656	5,085	16,603	21,688	38.32%	-5.51%	2.08%	38.32%	-5.51%	2.08%	38.32%	-5.51%
2035	4,797	15,209	20,007	5,050	16,010	21,060	5,302	16,810	22,113	4.27%	1.25%	1.95%	4.27%	1.25%	1.95%	4.27%	1.25%
2036	4,843	11,978	16,821	5,098	12,608	17,706	5,353	13,238	18,591	0.96%	-21.25%	-15.92%	0.96%	-21.25%	-15.92%	0.96%	-21.25%
2037	3,839	16,562	20,801	4,041	17,855	21,896	4,243	18,748	22,991	-20.73%	41.62%	23.66%	-20.73%	41.62%	23.66%	-20.73%	41.62%
2038	3,842	17,296	21,139	4,044	18,207	22,251	4,247	19,117	23,364	0.08%	1.97%	1.62%	0.08%	1.97%	1.62%	0.08%	1.97%
2039	3,875	17,588	21,463	4,079	18,514	22,593	4,283	19,440	23,723	0.86%	1.69%	1.54%	0.86%	1.69%	1.54%	0.86%	1.69%
2040	5,414	16,443	21,857	5,699	17,308	23,008	5,984	18,174	24,158	39.72%	-6.51%	1.83%	39.72%	-6.51%	1.83%	39.72%	-6.51%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	539,328	2,129,689	2,669,018	567,714	2,241,778	2,809,492	596,100	2,353,867	2,949,967	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	545,730	2,301,403	2,847,134	574,453	2,422,530	2,996,983	603,176	2,543,566	3,146,832	1.19%	8.06%	6.67%	1.19%	8.06%	6.67%	1.19%	8.06%
2023	552,403	2,473,271	3,025,673	581,476	2,603,443	3,184,920	610,550	2,733,615	3,344,165	1.22%	7.47%	6.27%	1.22%	7.47%	6.27%	1.22%	7.47%
2024	561,516	2,650,907	3,212,423	591,069	2,790,429	3,381,499	620,623	2,929,950	3,550,573	1.65%	7.18%	6.17%	1.65%	7.18%	6.17%	1.65%	7.18%
2025	565,885	2,812,297	3,379,183	595,669	2,961,366	3,557,034	625,452	3,109,434	3,734,886	0.78%	6.13%	5.19%	0.78%	6.13%	5.19%	0.78%	6.13%
2026	572,267	2,977,887	3,550,153	602,386	3,134,618	3,737,004	632,505	3,291,249	3,923,854	1.13%	5.85%	5.06%	1.13%	5.85%	5.06%	1.13%	5.85%
2027	578,554	3,139,222	3,717,776	609,004	3,304,444	3,913,448	639,454	3,469,667	4,109,121	1.10%	5.42%	4.72%	1.10%	5.42%	4.72%	1.10%	5.42%
2028	586,161	3,298,597	3,884,757	617,011	3,472,207	4,089,218	647,862	3,645,817	4,293,679	1.31%	5.08%	4.49%	1.31%	5.08%	4.49%	1.31%	5.08%
2029	590,657	3,450,424	4,041,081	621,744	3,632,025	4,253,769	652,832	3,813,626	4,466,458	0.77%	4.60%	4.02%	0.77%	4.60%	4.02%	0.77%	4.60%
2030	596,483	3,600,424	4,196,907	627,877	3,789,920	4,417,797	659,271	3,979,416	4,638,687	0.99%	4.35%	3.86%	0.99%	4.35%	3.86%	0.99%	4.35%
2031	602,134	3,746,267	4,348,401	633,825	3,943,439	4,577,264	665,516	4,140,611	4,806,127	0.95%	4.05%	3.61%	0.95%	4.05%	3.61%	0.95%	4.05%
2032	609,960	3,895,425	4,505,385	642,063	4,100,447	4,742,511	674,167	4,305,470	4,979,636	1.30%	3.98%	3.61%	1.30%	3.98%	3.61%	1.30%	3.98%
2033	612,591	4,021,978	4,634,568	644,832	4,233,661	4,878,493	677,074	4,445,344	5,122,418	0.43%	3.25%	2.87%	0.43%	3.25%	2.87%	0.43%	3.25%
2034	617,732	4,154,471	4,772,203	650,244	4,373,128	5,023,372	682,756	4,591,784	5,274,540	0.84%	3.29%	2.97%	0.84%	3.29%	2.97%	0.84%	3.29%
2035	623,088	4,285,160	4,908,248	655,882	4,510,695	5,166,577	688,676	4,736,230	5,424,906	0.87%	3.15%	2.85%	0.87%	3.15%	2.85%	0.87%	3.15%
2036	630,239	4,416,308	5,046,548	662,410	4,648,746	5,312,156	696,580	4,881,183	5,577,763	1.15%	3.06%	2.82%	1.15%	3.06%	2.82%	1.15%	3.06%
2037	632,390	4,525,406	5,157,796	665,673	4,763,585	5,429,259	698,957	5,001,765	5,700,722	0.34%	2.47%	2.20%	0.				





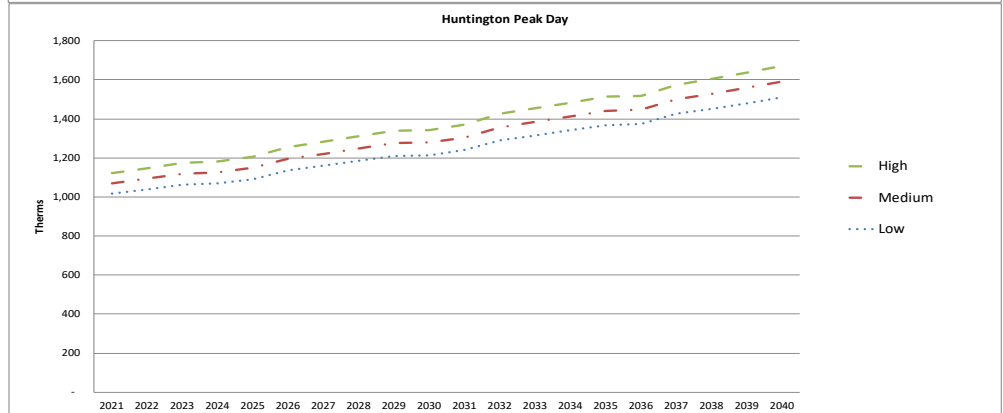
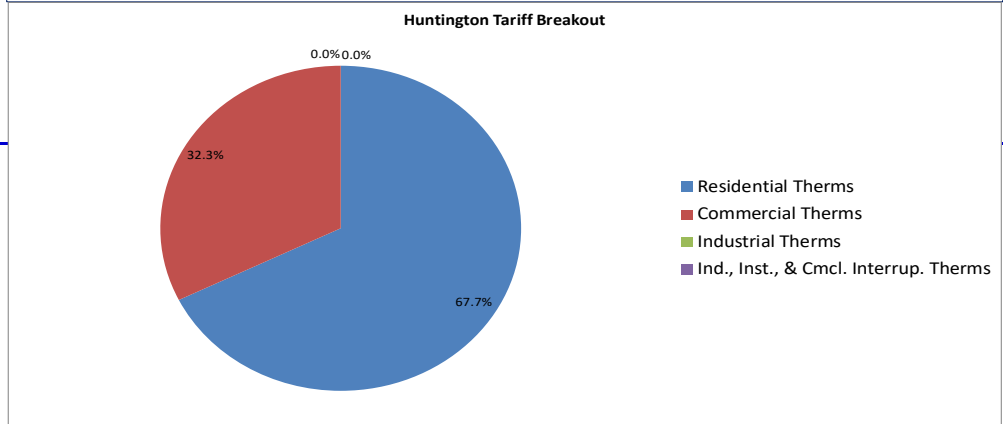
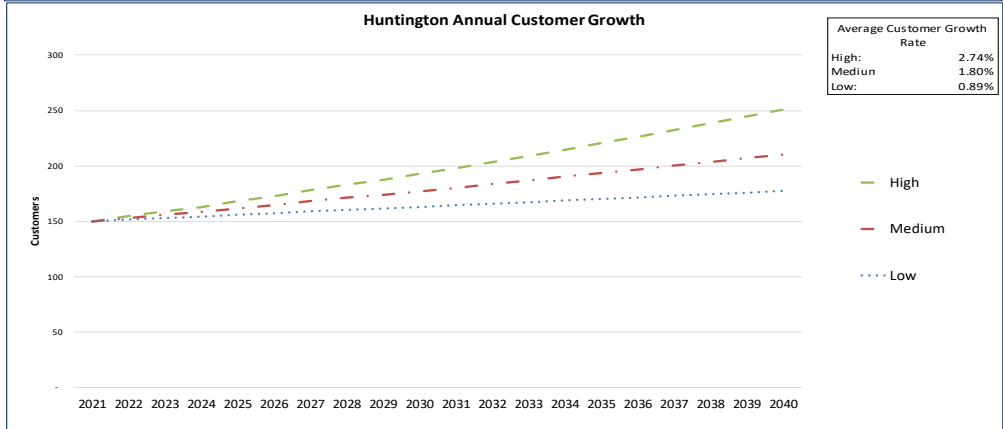
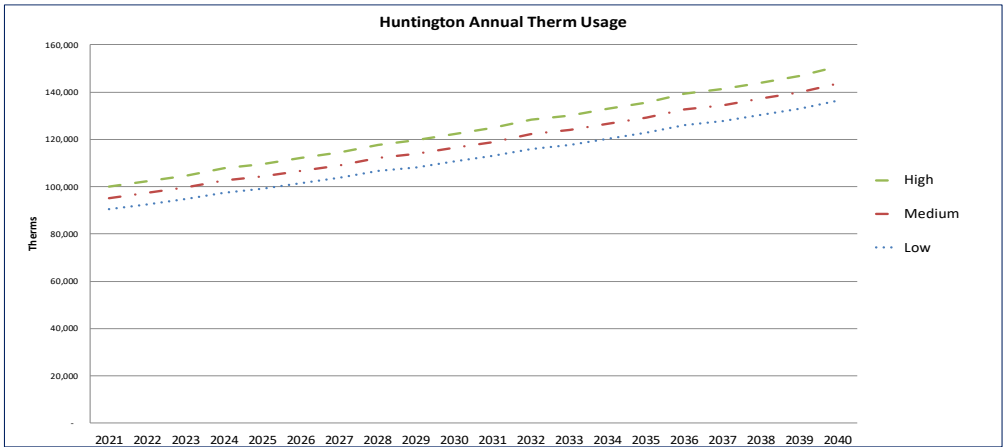
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Huntington												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	87,259	3,223	90,482	91,852	3,393	95,244	96,444	3,562	100,007	0.00%	0.00%	0.00%
2022	89,120	3,506	92,626	93,811	3,691	97,501	98,501	3,875	102,376	2.13%	8.79%	2.37%
2023	91,199	3,586	94,785	95,999	3,775	99,774	100,799	3,963	104,763	2.33%	2.27%	2.33%
2024	94,225	3,347	97,572	99,185	3,523	102,708	104,144	3,699	107,843	3.32%	-6.66%	2.94%
2025	95,870	3,335	99,205	100,915	3,511	104,426	105,961	3,686	109,647	1.74%	-0.35%	1.67%
2026	97,982	3,437	101,420	103,139	3,618	106,757	108,296	3,799	112,095	2.20%	3.07%	2.23%
2027	99,945	3,730	103,675	105,205	3,926	109,131	110,465	4,123	114,588	2.00%	8.51%	2.22%
2028	102,718	3,832	106,550	108,124	4,034	112,158	113,530	4,236	117,766	2.77%	2.75%	2.77%
2029	104,370	3,899	108,270	109,863	4,105	113,968	115,357	4,310	119,666	1.61%	1.74%	1.61%
2030	106,738	3,863	110,601	112,356	4,066	116,422	117,974	4,269	122,243	2.27%	-0.93%	2.15%
2031	109,119	3,846	112,965	114,862	4,048	118,911	120,605	4,251	124,856	2.23%	-0.44%	2.23%
2032	112,098	3,964	116,061	117,998	4,172	122,170	123,897	4,381	128,278	2.73%	3.06%	2.73%
2033	113,463	4,308	117,771	119,435	4,535	123,970	125,407	4,661	130,168	1.22%	8.68%	1.47%
2034	115,817	4,396	120,213	121,913	4,627	126,540	128,009	4,859	132,867	2.07%	2.07%	2.07%
2035	118,253	4,472	122,725	124,477	4,707	129,185	130,701	4,943	135,644	2.10%	1.73%	2.09%
2036	121,949	4,064	126,014	128,368	4,278	132,646	134,786	4,492	139,738	3.13%	-9.12%	2.68%
2037	123,614	4,182	127,796	130,120	4,402	134,522	136,626	4,622	141,248	1.36%	2.89%	1.41%
2038	125,833	4,536	130,370	132,456	4,775	137,231	139,079	5,014	144,093	1.80%	8.47%	2.01%
2039	128,034	4,921	132,956	134,773	5,180	139,953	141,512	5,499	146,951	1.75%	8.49%	1.80%
2040	131,663	4,726	136,389	138,593	4,975	143,567	145,522	5,223	150,746	2.83%	-3.97%	2.58%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	9	1,007	1,015	9	1,060	1,069	10	1,113	1,122	0.00%	0.00%	0.00%
2022	10	1,029	1,039	10	1,083	1,093	11	1,137	1,148	8.79%	2.24%	2.30%
2023	10	1,052	1,062	10	1,108	1,118	11	1,163	1,174	2.27%	2.24%	2.24%
2024	9	1,059	1,069	10	1,115	1,125	10	1,171	1,181	-6.66%	0.68%	0.61%
2025	9	1,083	1,093	10	1,140	1,149	10	1,197	1,207	0.21%	2.19%	-0.35%
2026	9	1,126	1,135	10	1,185	1,195	10	1,244	1,255	3.07%	3.95%	3.07%
2027	10	1,149	1,159	11	1,210	1,220	11	1,270	1,281	8.51%	2.09%	2.14%
2028	10	1,175	1,186	11	1,237	1,248	12	1,299	1,311	2.75%	2.27%	2.27%
2029	11	1,200	1,211	11	1,263	1,274	12	1,326	1,338	1.74%	2.11%	2.11%
2030	11	1,204	1,214	11	1,267	1,278	12	1,331	1,342	-0.93%	0.32%	-0.93%
2031	11	1,229	1,239	11	1,294	1,305	12	1,358	1,370	-0.44%	2.08%	2.06%
2032	11	1,278	1,289	11	1,345	1,357	12	1,413	1,425	3.06%	4.00%	4.00%
2033	12	1,303	1,315	12	1,372	1,384	13	1,440	1,453	8.68%	1.97%	2.02%
2034	12	1,329	1,341	13	1,399	1,412	13	1,469	1,483	2.05%	2.00%	2.05%
2035	12	1,356	1,368	13	1,427	1,440	14	1,499	1,512	1.73%	2.00%	1.73%
2036	11	1,362	1,373	12	1,434	1,446	12	1,506	1,518	-9.12%	0.46%	0.38%
2037	11	1,413	1,425	12	1,488	1,500	13	1,562	1,575	2.89%	3.75%	2.89%
2038	12	1,440	1,452	13	1,516	1,529	14	1,592	1,605	8.47%	1.89%	1.94%
2039	13	1,467	1,480	14	1,544	1,558	15	1,621	1,636	8.49%	1.88%	1.93%
2040	13	1,498	1,511	14	1,577	1,590	14	1,655	1,670	-3.97%	2.10%	2.05%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	62,578	27,904	90,482	65,871	29,373	95,244	69,165	30,882	100,007	0.00%	0.00%	0.00%
2022	63,775	28,851	92,626	67,132	30,369	97,501	70,489	31,888	102,376	1.91%	3.39%	2.37%
2023	64,984	29,802	94,785	68,404	31,370	99,774	71,824	32,939	104,763	1.89%	3.29%	2.33%
2024	66,609	30,963	97,572	70,115	32,593	102,708	73,621	34,222	107,843	2.50%	3.90%	2.94%
2025	67,461	31,744	99,205	71,011	33,415	104,426	74,562	35,085	109,647	1.28%	2.52%	1.67%
2026	68,698	32,722	101,420	72,313	34,444	106,757	75,939	36,166	112,095	1.83%	3.08%	2.23%
2027	69,949	33,725	103,675	73,631	35,500	109,131	77,312	37,275	114,588	1.82%	3.07%	2.22%
2028	71,603	34,947	106,550	75,372	36,786	112,158	79,141	38,625	117,766	2.36%	3.62%	2.77%
2029	72,494	35,776	108,270	76,309	37,659	113,968	80,125	39,541	119,666	1.24%	2.37%	1.61%
2030	73,783	36,818	110,601	77,667	38,756	116,422	81,550	40,694	122,243	1.78%	2.91%	1.78%
2031	75,089	37,876	112,965	79,041	39,870	118,911	82,993	41,863	124,856	1.77%	2.87%	1.77%
2032	76,860	39,201	116,061	80,905	41,265	122,170	84,951	43,328	128,278	2.36%	3.50%	2.74%
2033	77,728	40,044	117,771	81,819	42,151	123,970	85,910	44,259	130,168	1.13%	2.15%	1.47%
2034	79,064	41,150	120,213	83,225	43,316	126,540	87,386	45,481	132,867	1.72%	2.76%	2.07%
2035	80,436	42,290	122,725	84,669	44,515	129,185	88,903	46,741	135,644	1.74%	2.77%	2.09%
2036	82,303	43,711	126,014	86,635	46,011	132,646	90,966	48,312	139,738	2.32%	3.36%	2.68%
2037	83,208	44,588	127,796	87,587	46,935	134,522	91,966	49,281	141,248	1.10%	2.01%	1.10%
2038	84,603	45,766	130,370	89,056	48,175	137,231	93,509	50,584	144,093	1.68%	2.64%	2.01%
2039	85,999	46,957	132,956	90,525	49,429	139,953	95,051	51,900	146,951	1.65%	2.60%	1.98%
2040	87,926	48,463	136,389	92,554	51,013	143,567	97,182	53,564	150,746	2.24%	3.21%	2.58%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	134	16	150	134	16	150	134	16	150	0.00%	0.00%	0.00%
2022	135	17	152	136	17	153	137	17	155	0.74%	2.85%	1.08%
2023	136	17	153	138	18	156	140	19	159	0.76%	2.70%	0.98%
2024	137	17	154	140	18	159	144	19	163	0.75%	0.93%	0.77%
2025	138	18	156	143	19	162	147	21	168	0.83%	2.51%	1.02%
2026	139	18	157	145	20	165	151	22	173	0.76%	2.17%	0.92%
2027	140	18	159	147	21	168	154	24	178	0.83%	2.50%	1.02%
2028	141	19	160	149	22	171	158	25	183	0.68%	2.18%	0.85%
2029	142	19	162	152	23	174	161	26	188	0.78%	1.33%	0.85%
2030	144	19	163	154	23	177	165	28	193	0.80%	1.48%	0.88%
2031	145	20	165	156	24	180	169	29	198	0.73%	1.98%	0.88%
2032	146	20	166	159	25	184	172	31	203	0.72%	2.08%	0.88%
2033	147	21	167	161	26	187	176	33	209	0.74%	1.83%	0.87%
2034	148	21	169	163	27	190	180	35	215	0.75%	1.92%	0.89%
2035	149	21	170	166	28	194	184	37	220	0.69%	1.85%	0.83%
2036	150	22	172	168	29	197	188	39	227	0.76%	1.79%	0.88%
2037	151	22	173	170	30	200	192	41	232	0.67%	1.72%	0.80%
2038	152	22	174	173	31	204	196	43	238	0.71%	1.67%	0.83%
2039	153	23	176	175	32	207	200	45	245	0.75%	1.48%	0.84%
2040	154	23	177	178	33	210	204	47	251	0.64%	1.57%	0.76%

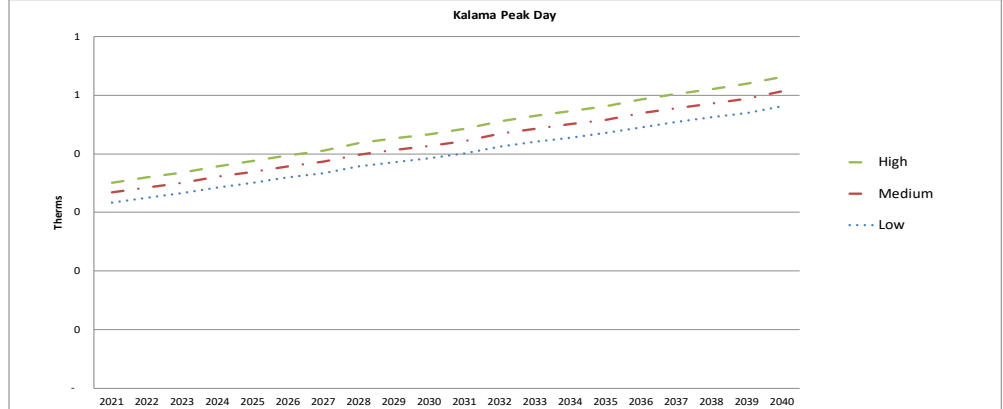
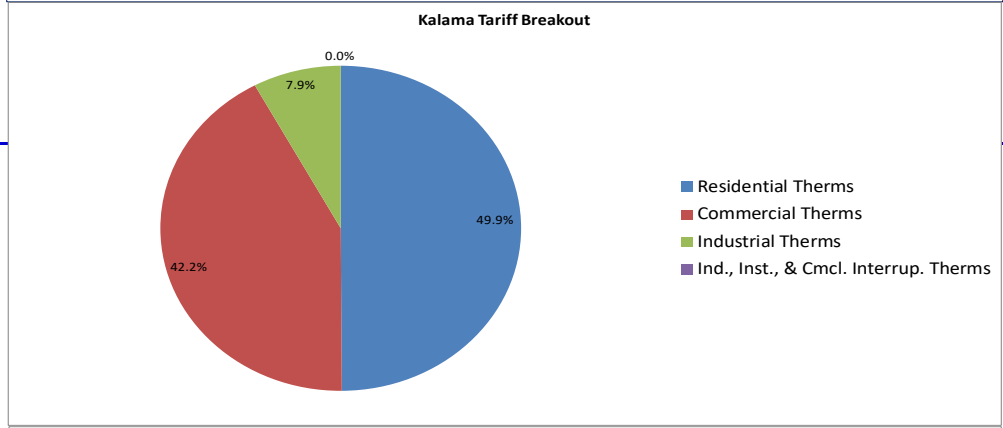
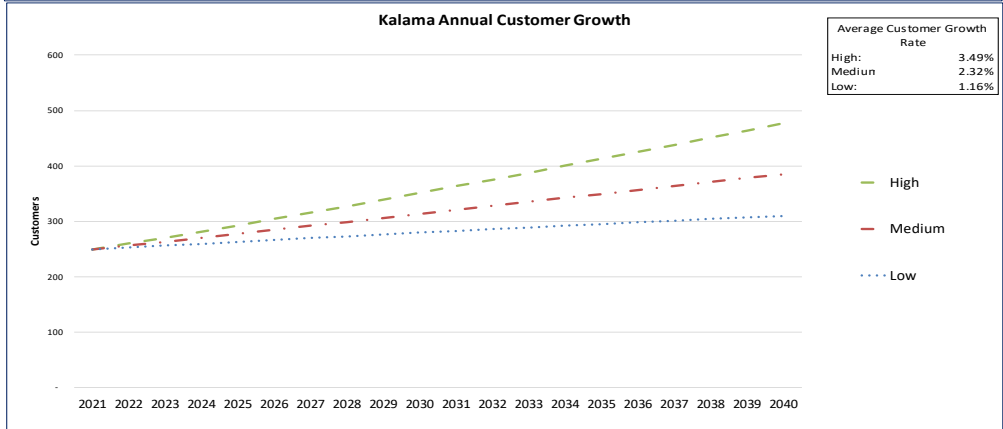
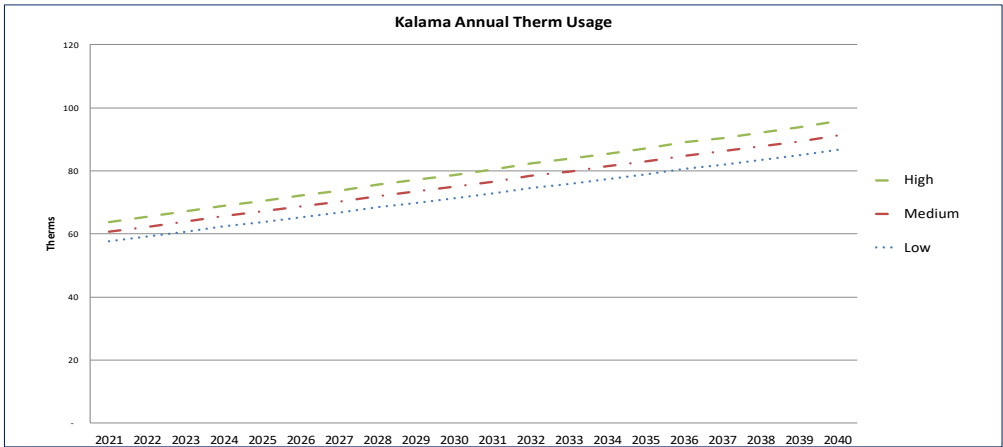


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Kalama																																			
Annual Requirements (Therms)																																			
Low									Medium									High									Annual Change								
Heating			Baseload			Total			Heating			Baseload			Total			Heating			Baseload			Total			Heating			Baseload			Total		
2021	44	14	58	46	14	61	49	15	64	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
2022	45	14	59	48	15	62	50	15	65	2.11%	2.26%	2.61%	2.71%	2.26%	2.61%	2.71%	2.26%	2.61%	2.71%	2.26%	2.61%	2.71%	2.26%	2.61%	2.71%	2.26%	2.61%	2.71%	2.26%						
2023	47	14	61	49	15	64	52	15	67	3.16%	0.53%	2.54%	3.16%	0.53%	2.54%	3.16%	0.53%	2.54%	3.16%	0.53%	2.54%	3.16%	0.53%	2.54%	3.16%	0.53%	2.54%	3.16%	0.53%						
2024	48	15	62	50	15	66	53	16	69	2.26%	4.59%	2.79%	2.26%	4.59%	2.79%	2.26%	4.59%	2.79%	2.26%	4.59%	2.79%	2.26%	4.59%	2.79%	2.26%	4.59%	2.79%	2.26%	4.59%						
2025	49	15	64	51	16	67	54	17	70	1.67%	3.62%	2.13%	1.67%	3.62%	2.13%	1.67%	3.62%	2.13%	1.67%	3.62%	2.13%	1.67%	3.62%	2.13%	1.67%	3.62%	2.13%	1.67%	3.62%						
2026	50	15	65	52	16	69	55	17	72	2.48%	1.97%	2.36%	2.48%	1.97%	2.36%	2.48%	1.97%	2.36%	2.48%	1.97%	2.36%	2.48%	1.97%	2.36%	2.48%	1.97%	2.36%	2.48%	1.97%						
2027	51	16	67	54	17	70	56	17	74	2.43%	1.91%	2.31%	2.43%	1.91%	2.31%	2.43%	1.91%	2.31%	2.43%	1.91%	2.31%	2.43%	1.91%	2.31%	2.43%	1.91%	2.31%	2.43%	1.91%						
2028	52	16	69	55	17	72	58	18	76	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%	2.56%						
2029	53	16	70	56	17	73	59	18	77	2.21%	0.96%	1.92%	2.21%	0.96%	1.92%	2.21%	0.96%	1.92%	2.21%	0.96%	1.92%	2.21%	0.96%	1.92%	2.21%	0.96%	1.92%	2.21%	0.96%						
2030	55	17	71	57	18	75	60	19	79	2.01%	2.65%	2.16%	2.01%	2.65%	2.16%	2.01%	2.65%	2.16%	2.01%	2.65%	2.16%	2.01%	2.65%	2.16%	2.01%	2.65%	2.16%	2.01%	2.65%						
2031	56	17	73	58	18	77	61	19	80	1.76%	3.26%	2.11%	1.76%	3.26%	2.11%	1.76%	3.26%	2.11%	1.76%	3.26%	2.11%	1.76%	3.26%	2.11%	1.76%	3.26%	2.11%	1.76%	3.26%						
2032	57	18	75	60	19	78	63	20	82	1.87%	4.01%	2.38%	1.87%	4.01%	2.38%	1.87%	4.01%	2.38%	1.87%	4.01%	2.38%	1.87%	4.01%	2.38%	1.87%	4.01%	2.38%	1.87%	4.01%						
2033	58	18	76	61	19	80	64	20	84	1.78%	1.58%	1.73%	1.78%	1.58%	1.73%	1.78%	1.58%	1.73%	1.78%	1.58%	1.73%	1.78%	1.58%	1.73%	1.78%	1.58%	1.73%	1.78%	1.58%						
2034	59	18	77	62	19	81	65	20	86	2.65%	-0.10%	1.99%	2.65%	-0.10%	1.99%	2.65%	-0.10%	1.99%	2.65%	-0.10%	1.99%	2.65%	-0.10%	1.99%	2.65%	-0.10%	1.99%	2.65%	-0.10%						
2035	60	18	79	64	19	83	67	20	87	2.35%	0.66%	1.95%	2.35%	0.66%	1.95%	2.35%	0.66%	1.95%	2.35%	0.66%	1.95%	2.35%	0.66%	1.95%	2.35%	0.66%	1.95%	2.35%	0.66%						
2036	61	20	81	64	21	85	67	22	89	0.95%	6.40%	2.22%	0.95%	6.40%	2.22%	0.95%	6.40%	2.22%	0.95%	6.40%	2.22%	0.95%	6.40%	2.22%	0.95%	6.40%	2.22%	0.95%	6.40%						
2037	62	20	82	65	21	86	69	22	91	1.64%	1.41%	1.58%	1.64%	1.41%	1.58%	1.64%	1.41%	1.58%	1.64%	1.41%	1.58%	1.64%	1.41%	1.58%	1.64%	1.41%	1.58%	1.64%	1.41%						
2038	63	20	83	67	21	88	70	22	92	1.99%	1.37%	1.84%	1.99%	1.37%	1.84%	1.99%	1.37%	1.84%	1.99%	1.37%	1.84%	1.99%	1.37%	1.84%	1.99%	1.37%	1.84%	1.99%	1.37%						
2039	65	20	85	68	21	89	71	23	94	1.96%	1.33%	1.81%	1.96%	1.33%	1.81%	1.96%	1.33%	1.81%	1.96%	1.33%	1.81%	1.96%	1.33%	1.81%	1.96%	1.33%	1.81%	1.96%	1.33%						
2040	66	21	87	69	22	91	73	23	96	2.10%	2.01%	2.08%	2.10%	2.01%	2.08%	2.10%	2.01%	2.08%	2.10%	2.01%	2.08%	2.10%	2.01%	2.08%	2.10%	2.01%	2.08%	2.10%	2.01%						

Peak Day - Baseload																																			
Low									Medium									High									Annual Change								
Daily Baseload			Peak			Total			Daily Baseload			Peak			Total			Daily Baseload			Peak			Total			Base			Peak			Total		
2021	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
2022	0	0	0	0	0	0	0	0	0	2.26%	2.52%	2.49%	2.26%	2.52%	2.49%	2.26%	2.52%	2.49%	2.26%	2.52%	2.49%	2.26%	2.52%	2.49%	2.26%	2.52%	2.49%	2.26%	2.52%						
2023	0	0	0	0	0	0	0	0	0	0.53%	2.67%	2.42%	0.53%	2.67%	2.42%	0.53%	2.67%	2.42%	0.53%	2.67%	2.42%	0.53%	2.67%	2.42%	0.53%	2.67%	2.42%	0.53%	2.67%						
2024	0	0	0	0	0	0	0	0	0	4.59%	2.72%	2.93%	4.59%	2.72%	2.93%	4.59%	2.72%	2.93%	4.59%	2.72%	2.93%	4.59%	2.72%	2.93%	4.59%	2.72%	2.93%	4.59%	2.72%						
2025	0	0	0	0	0	0	0	0	0	3.62%	2.11%	2.29%	3.62%	2.11%	2.29%	3.62%	2.11%	2.29%	3.62%	2.11%	2.29%	3.62%	2.11%	2.29%	3.62%	2.11%	2.29%	3.62%	2.11%						
2026	0	0	0	0	0	0	0	0	0	1.97%	1.55%	2.48%	1.97%	1.55%	2.48%	1.97%	1.55%	2.48%	1.97%	1.55%	2.48%	1.97%	1.55%	2.48%	1.97%	1.55%	2.48%	1.97%	1.55%						
2027	0	0	0	0	0	0	0	0	0	1.91%	2.21%	2.17%	1.91%	2.21%	2.17%	1.91%	2.21%	2.17%	1.91%	2.21%	2.17%	1.91%	2.21%	2.17%	1.91%	2.21%	2.17%	1.91%	2.21%						
2028	0	0	0	0	0	0	0	0	0	2.56%	2.99%	2.94%	2.56%	2.99%	2.94%	2.56%	2.99%	2.94%	2.56%	2.99%	2.94%	2.56%	2.99%	2.94%	2.56%	2.99%	2.94%	2.56%	2.99%						
2029	0	0	0	0	0	0	0	0	0	0.96%	2.21%	2.06%	0.96%	2.21%	2.06%	0.96%	2.21%	2.06%	0.96%	2.21%	2.06%	0.96%	2.21%	2.06%	0.96%	2.21%	2.06%	0.96%	2.21%						
2030	0	0	0	0	0	0	0	0	0	2.65%	1.65%	1.76%	2.65%	1.65%	1.76%	2.65%	1.65%	1.76%	2.65%	1.65%	1.76%	2.65%	1.65%	1.76%	2.65%	1.65%	1.76%	2.65%	1.65%						
2031	0	0	0	0	0	0	0	0	0	3.26%	1.80%	1.97%	3.26%	1.80%	1.97%	3.26%	1.80%	1.97%	3.26%	1.80%	1.97%	3.26%	1.80%	1.97%	3.26%	1.80%	1.97%	3.26%	1.80%						
2032	0	0	0	0	0	0	0	0	0	4.01%	2.85%	2.99%	4.01%	2.85%	2.99%	4.01%	2.85%	2.99%	4.01%	2.85%	2.99%	4.01%	2.85%	2.99%	4.01%	2.85%	2.99%	4.01%	2.85%						
2033	0	0	0	0	0	0	0	0	0	1.58%	1.92%	1.88%	1.58%	1.92%	1.88%	1.58%	1.92%	1.88%	1.58%	1.92%	1.88%	1.58%	1.92%	1.88%	1.58%	1.92%	1.88%	1.58%	1.92%						
2034	0	0	0	0	0	0	0	0	0	-0.10%	2.10%	1.84%	-0.10%	2.10%	1.84%	-0.10%	2.10%	1.84%	-0.10%	2.10%	1.84%	-0.10%	2.10%	1.84%	-0.10%	2.10%	1.84%	-0.10%	2.10%						
2035	0	0	0	0	0	0	0	0	0	0.66%	1.95%	1.80%	0.66%	1.95%	1.80%	0.66%	1.95%	1.80%	0.66%	1.95%	1.80%	0.66%	1.95%	1.80%	0.66%	1.95%	1.80%	0.66%	1.95%						
2036	0	0	0	0	0	0	0	0	0	6.40%	1.77%	2.30%	6.40%	1.77%	2.30%	6.40%	1.77%	2.30%	6.40%	1.77%	2.30%	6.40%	1.77%	2.30%	6.40%	1.77%	2.30%	6.40%	1.77%						
2037	0	0	0	0	0	0	0	0	1	1.41%	2.05%	1.98%	1.41%	2.05%	1.98%	1.41%	2.05%	1.98%	1.41%	2.05%	1.98%	1.41%	2.05%	1.98%	1.41%	2.05%	1.98%	1.41%	2.05%						
2038	0	0	0	0	0	0	0	0	1	1.37%	1.73%	1.69%	1.37%	1.73%	1.69%	1.37%	1.73%	1.69%	1.37%	1.73%	1.69%	1.37%	1.73%	1.69%	1.37%	1.73%	1.69%	1.37%	1.73%						
2039	0	0	0	0	0	0	0	0	1	1.33%	1.70%	1.65%	1.33%	1.70%	1.65%	1.33%	1.70%	1.65%	1.33%	1.70%	1.65%	1.33%	1.70%	1.65%	1.33%	1.70%	1.65%	1.33%	1.70%						
2040	0	0	0	0	0	0	0	0	1	2.01%	2.46%	2.41%	2.01%	2.46%	2.41%	2.01%	2.46%	2.41%	2.01%	2.46%	2.41%	2.01%	2.46%	2.41%	2.01%	2.46%	2.41%	2.01%	2.46%						

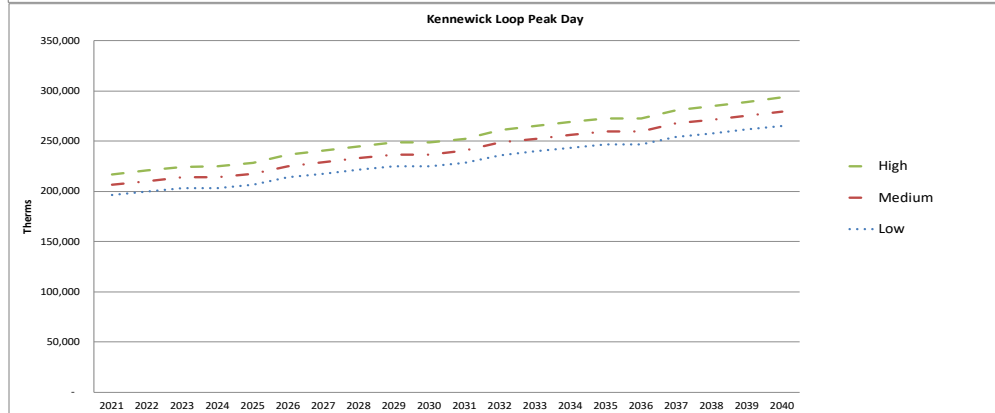
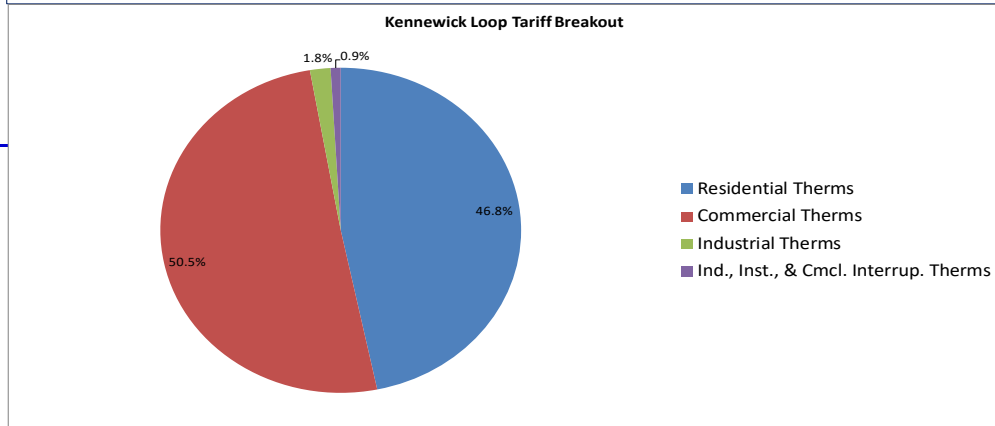
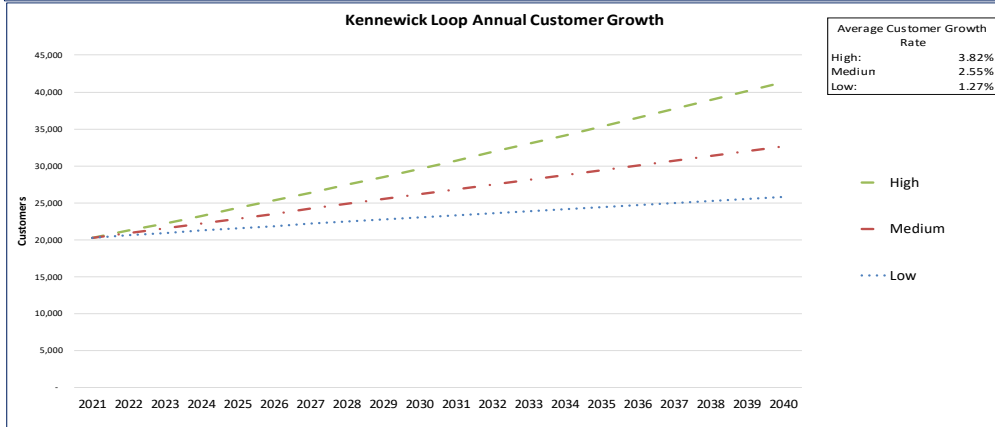
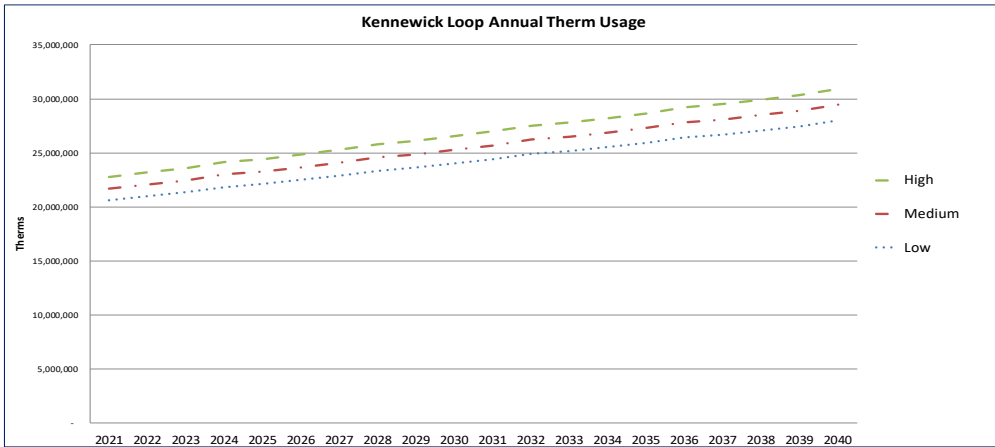
Therms Usage by Class																																			
Low									Medium									High									Annual Change								
Res			Com/Ind			Total			Res			Com/Ind			Total			Res			Com/Ind			Total			Res			Com/Ind			Total		
2021	29	29	58	31	30	61	32	32	64	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
2022	30	29	59	31	31	62	33	33	65	2.94%	2.27%	2.61%	2.94%	2.27%	2.61%	2.94%	2.27%	2.61%	2.94%	2.27%	2.61%	2.94%	2.27%	2.61%	2.94%	2.27%	2.61%	2.94%							
2023	31	30	61	32	32	64	34	33	67	2.86%	2.22%	2.54%	2.86%	2.22%	2.54%	2.86%	2.22%	2.54%	2.86%	2.22%	2.54%	2.86%	2.22%	2.54%	2.86%	2.22%	2.54%	2.86%							
2024	32	31	62	33	32	66	35	34	69	3.09%	2.49%	2.79%	3.09%	2.49%	2.79%	3.09%	2.49%	2.79%	3.09%	2.49%	2.79%	3.09%	2.49%	2.79%	3.09%	2.49%	2.79%	3.09%							
2025	32	31	64	34	33	67	36	35	70	2.40%	1.85%	2.13%	2.40%	1.85%	2.13%	2.40%	1.85%	2.13%	2.40%	1.85%	2.13%	2.40%	1.85%	2.13%	2.40%	1.85%	2.13%	2.40%							
2026	33	32	65	35	34	69	37	35	72	2.63%	2.08%	2.36%	2.63%	2.08%	2.36																				



Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Kennewick Loop																																			
Annual Requirements (Therms)																																			
Low									Medium									High									Annual Change								
Heating			BaseLoad			Total			Heating			BaseLoad			Total			Heating			BaseLoad			Total			Heating			BaseLoad			Total		
2021	13,584,739	7,029,908	20,614,646	14,299,724	7,399,904	21,699,627	15,014,710	7,769,899	22,784,609	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
2022	13,858,609	7,135,955	20,994,564	14,588,010	7,511,531	22,099,542	15,317,412	7,887,107	23,204,519	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%	1.51%	1.84%	2.02%				
2023	14,100,538	7,260,151	21,360,689	14,842,672	7,642,264	22,484,936	15,584,806	8,024,376	23,609,183	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%	1.74%	1.74%	1.75%				
2024	14,421,474	7,421,340	21,842,815	15,180,498	7,811,939	22,992,436	15,939,525	8,200,533	24,142,059	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%	2.22%	2.26%	2.28%				
2025	14,582,034	7,527,089	22,109,123	15,349,510	7,923,251	23,272,761	16,116,987	8,319,413	24,436,400	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%	1.11%	1.42%	1.72%					
2026	14,837,554	7,653,090	22,490,644	15,618,478	8,055,884	23,674,362	16,399,399	8,458,681	24,858,080	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%	1.67%	1.73%	1.75%				
2027	15,095,968	7,776,346	22,872,314	15,890,494	8,185,626	24,076,120	16,685,016	8,594,510	25,279,926	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%	1.61%	1.70%	1.74%				
2028	15,488,931	7,873,499	23,362,431	16,304,138	8,287,894	24,592,032	17,119,345	8,702,289	25,821,634	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%	1.25%	2.14%	2.60%				
2029	15,588,213	8,046,696	23,634,909	16,408,646	8,470,205	24,878,851	17,229,079	8,893,714	26,122,794	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%	2.20%	1.17%	0.64%				
2030	15,841,119	8,179,333	24,020,451	16,674,860	8,609,825	25,284,686	17,508,605	9,040,314	26,548,920	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%	1.65%	1.63%	1.62%				
2031	16,119,965	8,285,943	24,405,908	16,968,386	8,722,044	25,690,430	17,816,802	9,158,149	26,974,951	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%	1.30%	1.60%	1.76%				
2032	16,502,642	8,409,691	24,912,334	17,371,200	8,852,308	26,223,509	18,239,760	9,294,924	27,334,684	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%	1.49%	2.08%	2.37%				
2033	16,655,275	8,509,689	25,164,964	17,531,868	8,957,567	26,489,435	18,408,462	9,405,444	27,813,907	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%	1.19%	1.01%	0.92%				
2034	16,906,984	8,639,591	25,546,576	17,796,824	9,094,309	26,891,133	18,686,667	9,549,022	28,235,689	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%	1.53%	1.52%	1.51%				
2035	17,121,690	8,810,367	25,932,057	18,022,830	9,274,071	27,296,902	18,923,977	9,737,770	28,661,747	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%	1.98%	1.51%	1.27%				
2036	17,530,723	8,915,521	26,447,244	18,453,392	9,385,812	27,839,203	19,375,065	9,855,099	29,121,564	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%	1.20%	1.99%	2.39%				
2037	17,653,642	9,042,464	26,696,106	18,582,782	9,518,381	28,101,163	19,511,920	9,994,301	29,506,221	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%	1.41%	0.94%	0.70%				
2038	17,912,713	9,166,856	27,079,570	18,855,487	9,649,323	28,504,810	19,798,264	10,131,787	29,930,051	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%	1.38%	1.44%	1.47%				
2039	18,184,887	9,275,717	27,460,604	19,141,988	9,763,911	28,905,898	20,099,086	10,252,108	30,351,194	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%	1.19%	1.41%	1.52%				
2040	18,546,738	9,441,126	27,987,864	19,522,882	9,938,028	29,460,910	20,499,026	10,434,929	30,933,955	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%	1.78%	1.92%	1.99%				

Peak Day - BaseLoad																																			
Annual Change																																			
Low									Medium									High									Annual Change								
Daily BaseLoad			Peak			Total			Daily BaseLoad			Peak			Total			Daily BaseLoad			Peak			Total			Base			Peak			Total		
2021	19,260	176,811	196,071	20,274	186,117	206,390	21,287	195,423	216,710	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%					
2022	19,551	180,149	199,699	20,580	189,630	210,210	21,609	199,112	220,720	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%	1.51%	1.89%	1.85%					
2023	19,891	183,272	203,163	20,938	192,918	213,856	21,985	202,564	224,548	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%	1.74%	1.73%	1.73%					
2024	20,332	185,055	205,388	21,403	192,690	214,092	22,473	202,324	224,797	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%	-0.12%	0.11%	2.22%				
2025	20,625	186,226	206,851	21,708	196,072	217,779	22,797	205,976	226,668	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%	1.42%	1.76%	1.72%					
2026	20,967	193,013	213,980	22,071	203,171	225,242	23,174	213,330	235,504	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%	1.67%	3.62%	3.43%					
2027	21,305	196,281	217,586	22,426	206,612	229,038	23,548	216,943	240,490	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%	1.61%	1.69%	1.69%					
2028	21,571	199,781	221,352	22,707	210,295	233,002	23,842	220,810	244,652	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%	1.25%	1.78%	1.73%					
2029	22,046	202,927	224,973	23,206	213,607	236,813	24,366	224,288	248,654	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%	2.20%	1.57%	1.64%					
2030	22,409	204,427	224,836	23,589	213,081	236,670	24,768	223,735	248,503	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%	-0.25%	-0.06%	1.65%				
2031	22,701	205,712	228,414	23,896	216,539	240,435	25,091	227,366	252,457	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%	1.30%	1.62%	1.59%					
2032	23,040	213,005	236,045	24,253	224,216	248,469	25,466	235,427	260,892	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%	1.49%	3.55%	3.34%					
2033	23,314	216,340	239,654	24,541	227,726	252,267	25,768	239,112	264,881	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%	1.19%	1.57%	1.53%					
2034	23,670	219,585	245,256	24,916	231,143	256,058	26,162	247,700	268,861	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%	1.53%	1.50%	1.50%					
2035	24,138	222,713	246,851	25,408	234,435	259,844	26,579	246,157	272,836	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%	1.98%	1.42%	1.48%					
2036	24,429	222,106	246,535	25,715																															



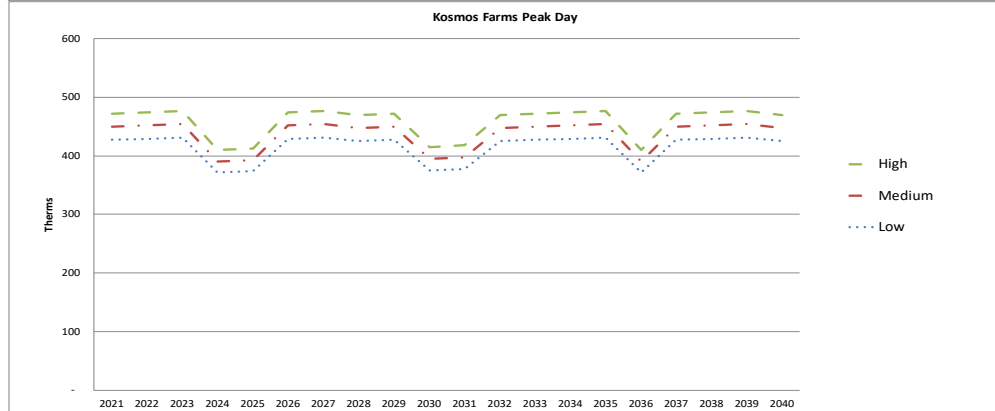
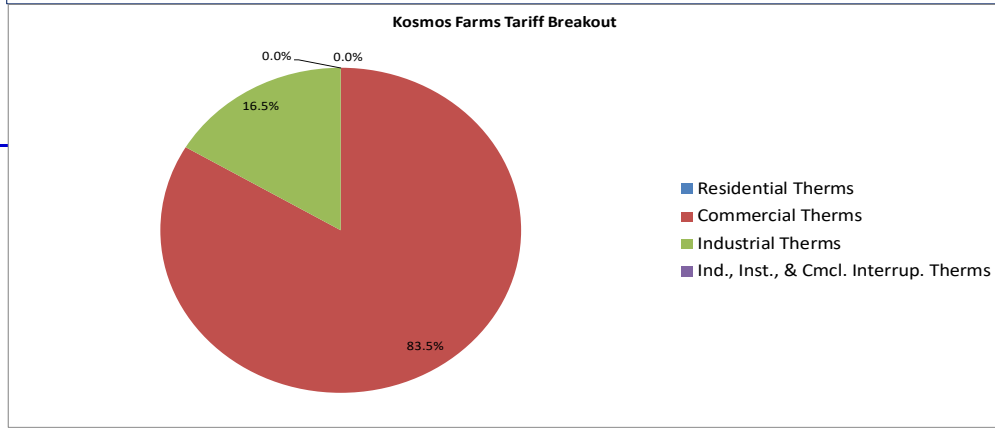
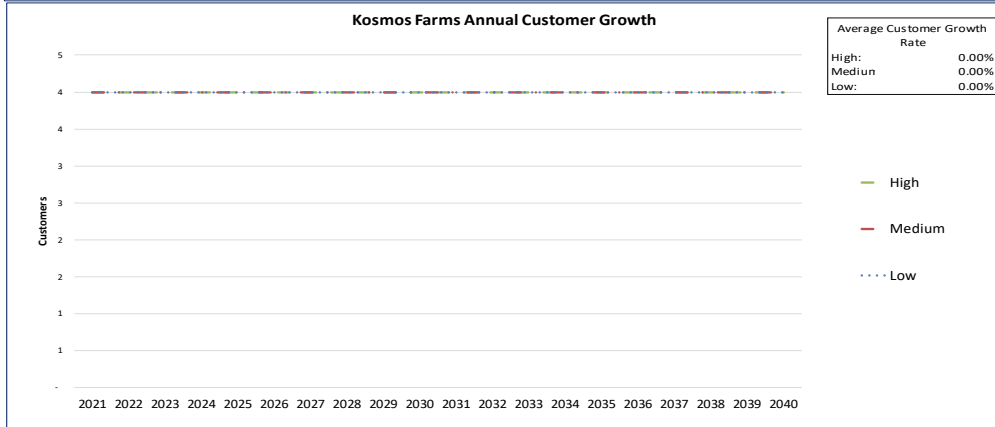
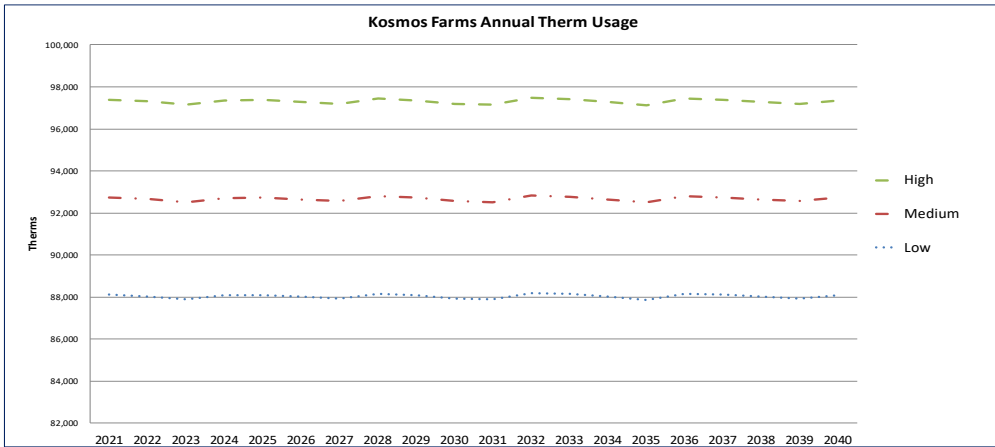
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Kosmos Farms												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	88,108	-	88,108	92,746	-	92,746	97,383	-	97,383	0.00%	0.00%	0.00%
2022	88,037	-	88,037	92,670	-	92,670	97,304	-	97,304	-0.08%	0.00%	-0.08%
2023	87,898	-	87,898	92,524	-	92,524	97,151	-	97,151	-0.16%	0.00%	-0.16%
2024	88,077	-	88,077	92,713	-	92,713	97,348	-	97,348	0.20%	0.00%	0.20%
2025	88,103	-	88,103	92,740	-	92,740	97,377	-	97,377	0.03%	0.00%	0.03%
2026	88,012	-	88,012	92,645	-	92,645	97,277	-	97,277	-0.10%	0.00%	-0.10%
2027	87,930	-	87,930	92,558	-	92,558	97,185	-	97,185	-0.09%	0.00%	-0.09%
2028	88,164	-	88,164	92,804	-	92,804	97,444	-	97,444	0.27%	0.00%	0.27%
2029	88,087	-	88,087	92,723	-	92,723	97,359	-	97,359	-0.09%	0.00%	-0.09%
2030	87,937	-	87,937	92,565	-	92,565	97,194	-	97,194	-0.17%	0.00%	-0.17%
2031	87,895	-	87,895	92,521	-	92,521	97,147	-	97,147	-0.05%	0.00%	-0.05%
2032	88,191	-	88,191	92,832	-	92,832	97,474	-	97,474	0.34%	0.00%	0.34%
2033	88,138	-	88,138	92,777	-	92,777	97,416	-	97,416	-0.06%	0.00%	-0.06%
2034	88,010	-	88,010	92,642	-	92,642	97,274	-	97,274	-0.15%	0.00%	-0.15%
2035	87,868	-	87,868	92,493	-	92,493	97,117	-	97,117	-0.16%	0.00%	-0.16%
2036	88,155	-	88,155	92,795	-	92,795	97,435	-	97,435	0.33%	0.00%	0.33%
2037	88,113	-	88,113	92,750	-	92,750	97,388	-	97,388	-0.05%	0.00%	-0.05%
2038	88,020	-	88,020	92,653	-	92,653	97,285	-	97,285	-0.11%	0.00%	-0.11%
2039	87,934	-	87,934	92,562	-	92,562	97,190	-	97,190	-0.10%	0.00%	-0.10%
2040	88,093	-	88,093	92,730	-	92,730	97,366	-	97,366	0.18%	0.00%	0.18%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	-	427	427	450	450	-	472	472	0.00%	0.00%	0.00%	
2022	-	429	429	452	452	-	474	474	0.00%	0.52%	0.52%	
2023	-	432	432	454	454	-	477	477	0.00%	0.52%	0.52%	
2024	-	371	371	391	391	-	410	410	0.00%	-13.95%	-13.95%	
2025	-	373	373	393	393	-	413	413	0.00%	0.59%	0.59%	
2026	-	429	429	452	452	-	474	474	0.00%	14.94%	14.94%	
2027	-	432	432	454	454	-	477	477	0.00%	0.52%	0.52%	
2028	-	425	425	447	447	-	470	470	0.00%	-1.54%	-1.54%	
2029	-	427	427	450	450	-	472	472	0.00%	0.51%	0.51%	
2030	-	376	376	395	395	-	415	415	0.00%	-12.03%	-12.03%	
2031	-	378	378	398	398	-	418	418	0.00%	0.60%	0.60%	
2032	-	425	425	447	447	-	470	470	0.00%	12.42%	12.42%	
2033	-	427	427	450	450	-	472	472	0.00%	0.51%	0.51%	
2034	-	429	429	452	452	-	474	474	0.00%	0.52%	0.52%	
2035	-	432	432	454	454	-	477	477	0.00%	0.52%	0.52%	
2036	-	371	371	391	391	-	410	410	0.00%	-13.95%	-13.95%	
2037	-	427	427	450	450	-	472	472	0.00%	15.02%	15.02%	
2038	-	429	429	452	452	-	474	474	0.00%	0.52%	0.52%	
2039	-	432	432	454	454	-	477	477	0.00%	0.52%	0.52%	
2040	-	425	425	447	447	-	470	470	0.00%	-1.54%	-1.54%	

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	-	88,108	88,108	-	92,746	92,746	-	97,383	97,383	0.00%	0.00%	0.00%
2022	-	88,037	88,037	-	92,670	92,670	-	97,304	97,304	0.00%	-0.08%	-0.08%
2023	-	87,898	87,898	-	92,524	92,524	-	97,151	97,151	0.00%	-0.16%	-0.16%
2024	-	88,077	88,077	-	92,713	92,713	-	97,348	97,348	0.00%	0.20%	0.20%
2025	-	88,103	88,103	-	92,740	92,740	-	97,377	97,377	0.00%	0.03%	0.03%
2026	-	88,012	88,012	-	92,645	92,645	-	97,277	97,277	0.00%	-0.10%	-0.10%
2027	-	87,930	87,930	-	92,558	92,558	-	97,185	97,185	0.00%	-0.09%	-0.09%
2028	-	88,164	88,164	-	92,804	92,804	-	97,444	97,444	0.00%	0.27%	0.27%
2029	-	88,087	88,087	-	92,723	92,723	-	97,359	97,359	0.00%	-0.09%	-0.09%
2030	-	87,937	87,937	-	92,565	92,565	-	97,194	97,194	0.00%	-0.17%	-0.17%
2031	-	87,895	87,895	-	92,521	92,521	-	97,147	97,147	0.00%	-0.05%	-0.05%
2032	-	88,191	88,191	-	92,832	92,832	-	97,474	97,474	0.00%	0.34%	0.34%
2033	-	88,138	88,138	-	92,777	92,777	-	97,416	97,416	0.00%	-0.06%	-0.06%
2034	-	88,010	88,010	-	92,642	92,642	-	97,274	97,274	0.00%	-0.15%	-0.15%
2035	-	87,868	87,868	-	92,493	92,493	-	97,117	97,117	0.00%	-0.16%	-0.16%
2036	-	88,155	88,155	-	92,795	92,795	-	97,435	97,435	0.00%	0.33%	0.33%
2037	-	88,113	88,113	-	92,750	92,750	-	97,388	97,388	0.00%	-0.05%	-0.05%
2038	-	88,020	88,020	-	92,653	92,653	-	97,285	97,285	0.00%	-0.11%	-0.11%
2039	-	87,934	87,934	-	92,562	92,562	-	97,190	97,190	0.00%	-0.10%	-0.10%
2040	-	88,093	88,093	-	92,730	92,730	-	97,366	97,366	0.00%	0.18%	0.18%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2022	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2023	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2024	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2025	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2026	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2027	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2028	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2029	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2030	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2031	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2032	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2033	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2034	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2035	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2036	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2037	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2038	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2039	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%
2040	-	4	4	-	4	4	-	4	4	0.00%	0.00%	0.00%



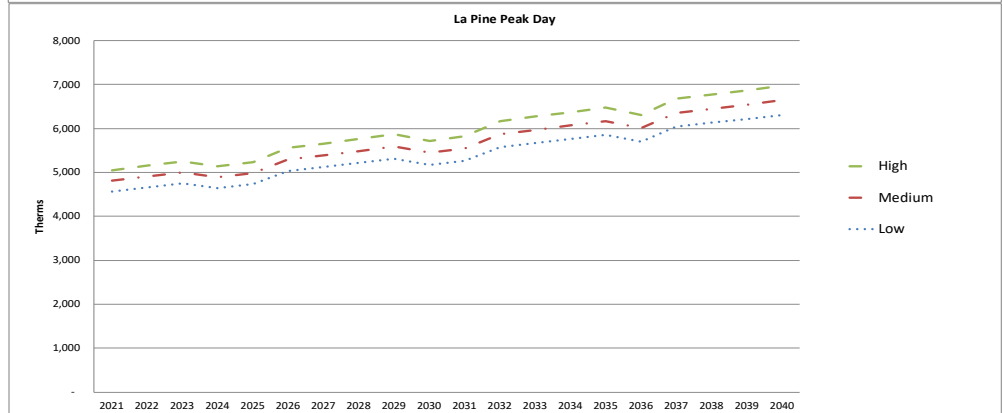
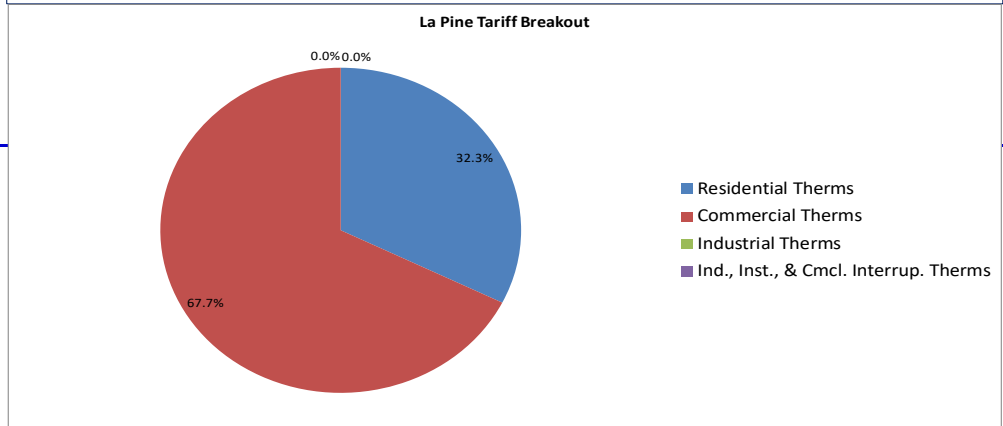
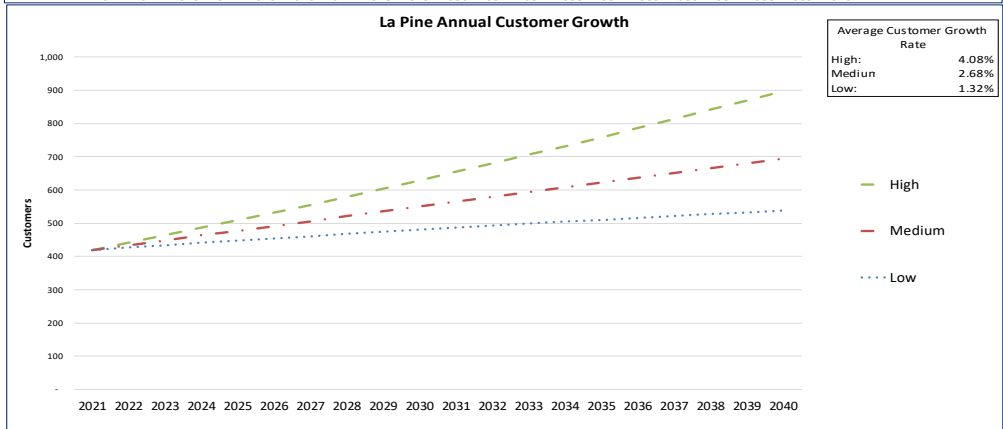
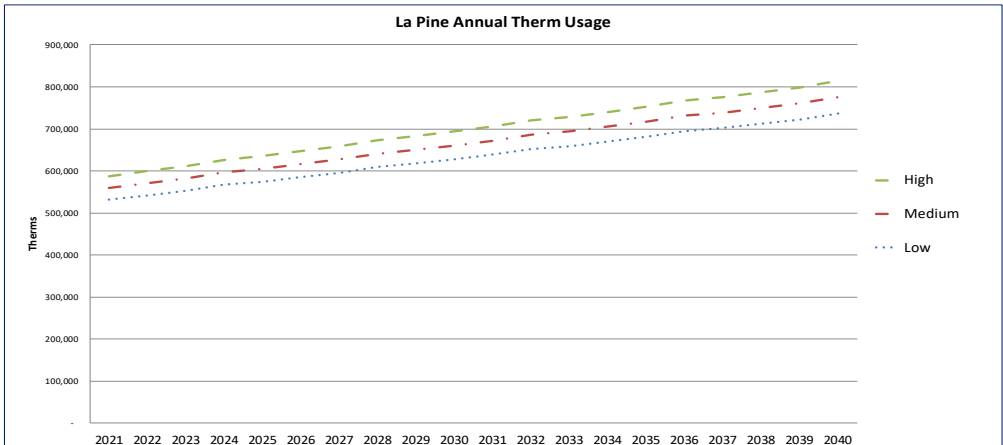
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

La Pine												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	391,967	139,974	531,942	412,597	147,341	559,938	433,227	154,708	587,935	0.00%	0.00%	0.00%
2022	402,872	140,562	543,433	423,023	147,960	570,983	444,174	155,358	599,532	2.53%	0.42%	1.97%
2023	409,842	143,325	553,167	431,413	150,869	582,281	452,983	158,412	611,395	1.98%	1.97%	1.98%
2024	416,279	150,731	567,009	438,188	158,664	596,852	460,097	166,597	626,694	1.57%	2.50%	1.57%
2025	421,234	153,559	574,793	443,404	161,641	605,045	465,574	169,723	635,297	1.19%	1.87%	1.19%
2026	429,050	156,379	585,429	451,632	164,610	616,241	474,213	172,840	647,053	1.86%	1.88%	1.86%
2027	439,274	156,778	596,051	462,393	165,029	627,422	485,513	173,281	658,793	2.38%	0.25%	1.81%
2028	452,242	157,165	609,407	476,044	165,437	641,481	499,846	173,709	673,555	2.95%	0.25%	2.24%
2029	454,920	162,391	617,311	478,683	170,938	649,621	502,806	179,485	682,291	0.59%	3.22%	1.30%
2030	460,189	167,699	627,888	484,409	176,526	660,934	508,629	185,352	693,981	1.16%	3.27%	1.71%
2031	467,953	170,502	638,455	492,583	179,476	672,058	517,212	188,449	705,661	1.69%	1.67%	1.68%
2032	481,654	170,749	652,403	507,004	179,736	686,740	532,354	188,723	721,077	2.93%	0.15%	2.93%
2033	488,578	170,825	659,403	514,293	179,815	694,108	540,008	188,806	728,814	1.44%	0.04%	1.07%
2034	496,412	173,534	669,946	522,539	182,668	705,206	548,665	191,801	740,467	1.60%	1.59%	1.60%
2035	501,710	179,006	680,716	528,116	188,427	716,543	554,522	197,848	752,370	1.07%	3.15%	1.61%
2036	510,204	184,645	694,849	537,057	194,363	731,420	563,910	204,081	767,990	1.69%	3.15%	2.08%
2037	514,392	187,429	701,821	541,465	197,293	738,759	568,538	207,158	775,696	0.82%	1.51%	1.00%
2038	520,005	187,319	712,324	552,637	197,178	749,815	580,269	207,037	787,306	2.06%	-0.06%	1.50%
2039	535,438	187,121	722,559	563,619	196,970	760,589	591,800	206,818	798,618	1.99%	-0.11%	1.44%
2040	543,965	192,875	736,840	572,595	203,026	775,621	601,224	213,178	814,402	1.59%	3.07%	1.98%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	383	4,184	4,567	404	4,404	4,808	424	4,624	5,048	0.00%	0.00%	0.00%
2022	385	4,275	4,660	405	4,500	4,905	426	4,725	5,150	0.42%	2.17%	2.02%
2023	393	4,360	4,753	413	4,589	5,003	434	4,819	5,253	1.97%	2.00%	1.97%
2024	413	4,236	4,649	435	4,459	4,893	456	4,682	5,138	5.17%	-2.85%	-2.18%
2025	428	4,317	4,737	445	4,544	4,987	465	4,771	5,236	1.88%	1.91%	1.88%
2026	428	4,602	5,030	451	4,844	5,295	474	5,086	5,560	1.84%	6.61%	1.84%
2027	430	4,693	5,122	452	4,940	5,392	475	5,187	5,661	0.25%	1.97%	1.83%
2028	431	4,784	5,215	453	5,036	5,490	476	5,288	5,764	0.25%	1.95%	1.81%
2029	445	4,862	5,307	468	5,118	5,586	492	5,374	5,865	3.22%	1.62%	3.32%
2030	459	4,719	5,179	484	4,968	5,451	508	5,216	5,724	3.27%	-2.93%	-2.41%
2031	467	4,799	5,267	492	5,052	5,544	516	5,305	5,821	1.67%	1.70%	1.69%
2032	468	5,114	5,582	492	5,383	5,876	517	5,563	6,170	0.15%	6.56%	0.15%
2033	468	5,205	5,673	493	5,479	5,972	517	5,753	6,270	0.04%	1.78%	0.04%
2034	475	5,289	5,765	500	5,567	6,068	525	5,846	6,371	1.59%	1.61%	1.59%
2035	490	5,365	5,856	516	5,648	6,164	542	5,930	6,472	3.15%	1.44%	1.58%
2036	506	5,201	5,706	533	5,474	6,007	559	5,748	6,307	3.15%	-3.07%	-2.55%
2037	514	5,525	6,039	541	5,816	6,357	568	6,107	6,674	1.51%	6.24%	1.51%
2038	513	5,616	6,130	540	5,912	6,452	567	6,208	6,775	-0.06%	1.65%	-0.06%
2039	513	5,708	6,220	540	6,008	6,548	567	6,308	6,875	-0.11%	1.62%	-0.11%
2040	528	5,783	6,312	556	6,088	6,644	584	6,392	6,976	3.07%	1.33%	3.07%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	166,821	365,121	531,942	175,601	384,338	559,938	184,381	403,555	587,935	0.00%	0.00%	0.00%
2022	173,755	368,679	542,433	182,900	388,083	570,983	192,045	407,487	599,532	4.16%	0.97%	1.97%
2023	180,783	372,384	553,167	190,298	391,983	582,281	199,813	411,583	611,395	4.04%	1.01%	1.98%
2024	188,847	378,163	567,009	198,786	398,066	596,852	208,725	417,969	626,694	4.46%	1.55%	2.50%
2025	194,879	379,914	574,793	205,196	399,909	605,045	215,392	419,905	635,297	3.19%	0.46%	1.37%
2026	201,847	383,582	585,429	212,471	403,770	616,241	223,094	423,959	647,053	3.58%	0.97%	1.85%
2027	208,807	387,244	596,051	219,797	407,626	627,422	230,787	428,007	658,793	3.45%	0.95%	1.81%
2028	216,747	392,660	609,407	228,154	413,327	641,481	239,562	433,993	673,555	3.80%	1.40%	2.24%
2029	222,733	394,578	617,311	234,456	415,345	649,801	246,179	436,112	682,291	2.76%	0.49%	1.30%
2030	229,665	398,223	627,888	241,752	419,182	660,934	253,840	440,141	693,981	3.11%	0.92%	1.71%
2031	236,591	401,865	638,455	249,043	423,015	672,058	261,495	444,166	705,661	3.02%	0.91%	1.68%
2032	244,794	407,610	652,403	257,677	429,063	686,740	270,561	450,516	721,077	3.47%	1.43%	3.47%
2033	250,380	409,023	659,403	263,557	430,551	694,108	276,735	452,078	728,814	2.28%	0.35%	1.07%
2034	257,290	412,656	669,946	270,832	434,375	705,206	284,373	456,993	740,467	2.76%	0.89%	2.76%
2035	264,286	416,490	680,716	278,196	438,347	716,543	292,106	460,265	752,370	2.72%	0.91%	2.72%
2036	272,612	422,327	694,849	286,969	444,460	731,420	301,308	466,683	767,990	3.15%	2.39%	2.08%
2037	278,117	423,704	701,821	292,755	446,004	738,759	307,392	468,304	775,696	2.02%	0.35%	1.00%
2038	285,003	427,321	712,324	300,003	449,811	749,815	315,004	472,302	787,306	2.48%	0.85%	1.50%
2039	291,778	430,781	722,559	307,135	453,544	760,589	322,492	476,126	798,618	2.38%	0.81%	1.44%
2040	300,204	436,636	736,840	316,004	459,617	775,621	331,804	482,598	814,402	2.89%	1.36%	2.89%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	286	135	420	286	135	420	286	135	420	0.00%	0.00%	0.00%
2022	292	135	427	298	136	435	305	137	442	2.25%	0.56%	1.71%
2023	298	136	434	311	138	449	324	139	464	2.14%	0.55%	1.63%
2024	304	137	441	324	139	464	345	142	487	2.09%	0.64%	1.63%
2025	310	138	448	337	141	478	365	144	509	1.98%	0.51%	1.52%
2026	316	139	455	350	143	492	386	147	532	1.89%	0.59%	1.49%
2027	322	139	461	363	144	507	407	149	556	1.85%	0.47%	1.43%
2028	328	140	468	376	146	521	429	151	580	1.78%	0.61%	1.43%
2029	334	141	474	388	147	536	451	154	605	1.71%	0.54%	1.36%
2030	339	142	481	401	149	550	473	156	629	1.64%	0.51%	1.31%
2031	345	142	487	414	150	565	496	159	655	1.62%	0.59%	1.32%
2032	350	143	493	427	152	579	519	161	680	1.55%	0.47%	1.23%
2033	355	144	499	440	154	593	543	164	706	1.49%	0.55%	1.22%
2034	360	144	505	453	155	608	566	166	732	1.47%	0.43%	1.17%
2035	365	145	511	466	157	622	591	169	759	1.43%	0.57%	1.18%
2036	370	146	516	478	158	637	615	171	786	1.38%	0.51%	1.13%
2037	375	147	522	491	160	651	640	174	813	1.33%	0.47%	1.09%
2038	380	147	528	504	161	666	665	177	842	1.32%	0.55%	1.11%
2039	385	148	533	517	163	680	690	179	869	1.27%	0.44%	1.04%
2040	390	149	539	530	164	694	716	182	898	1.23%	0.49%	1.03%



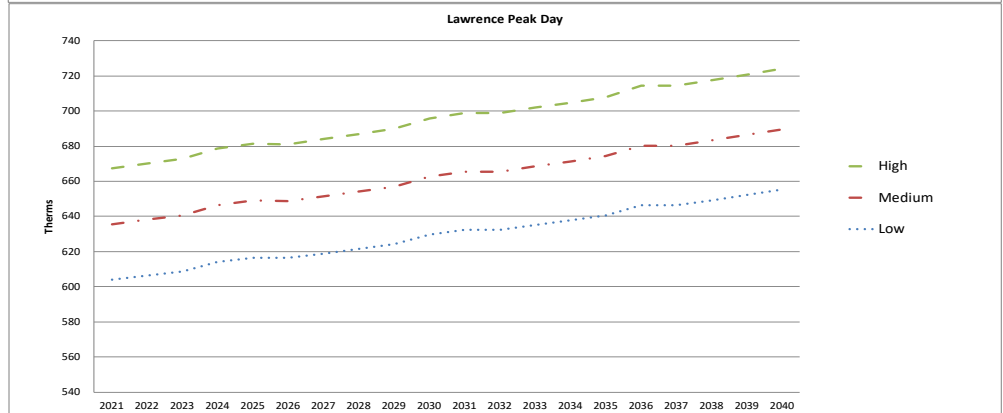
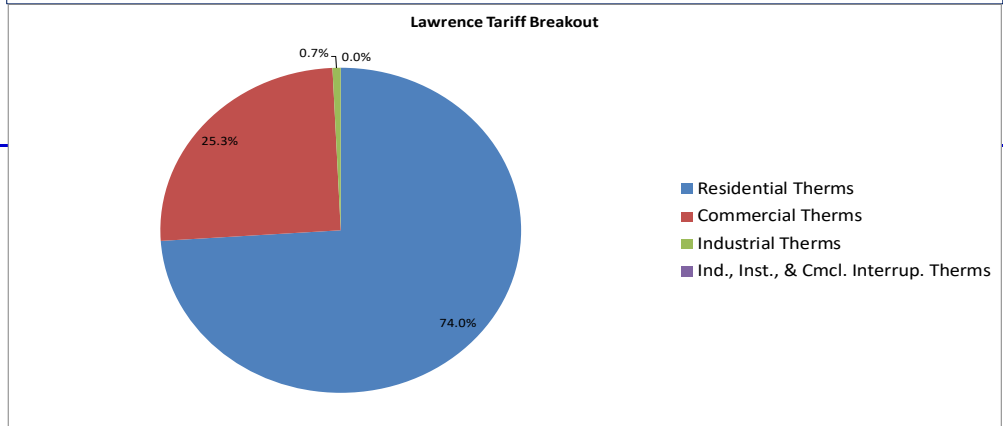
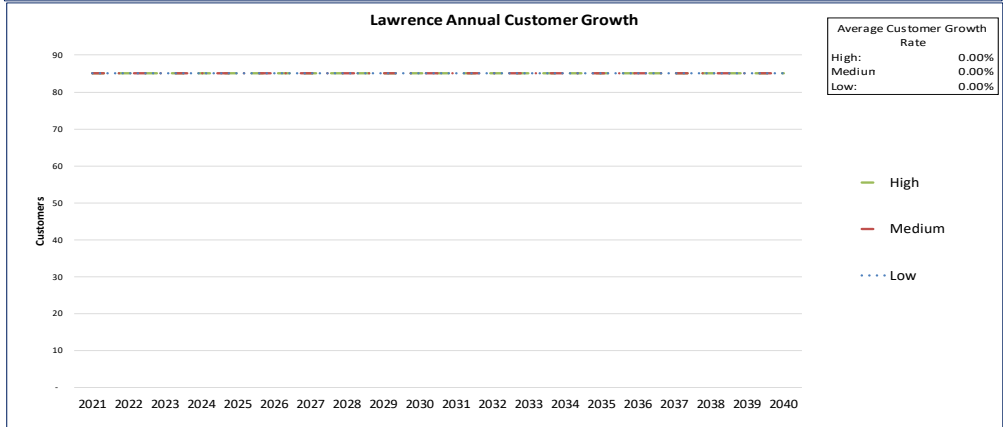
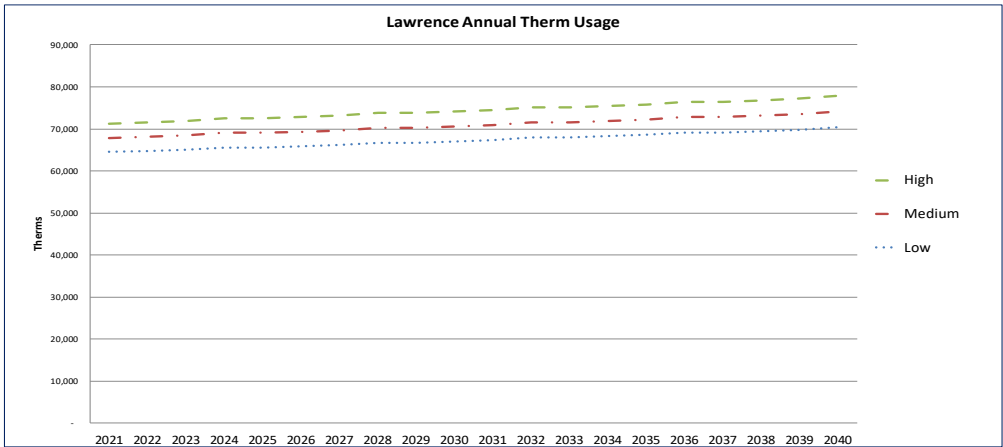
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

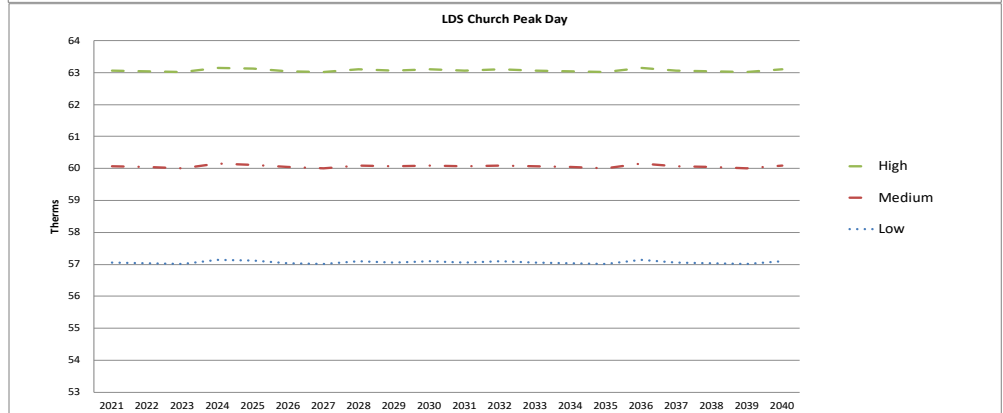
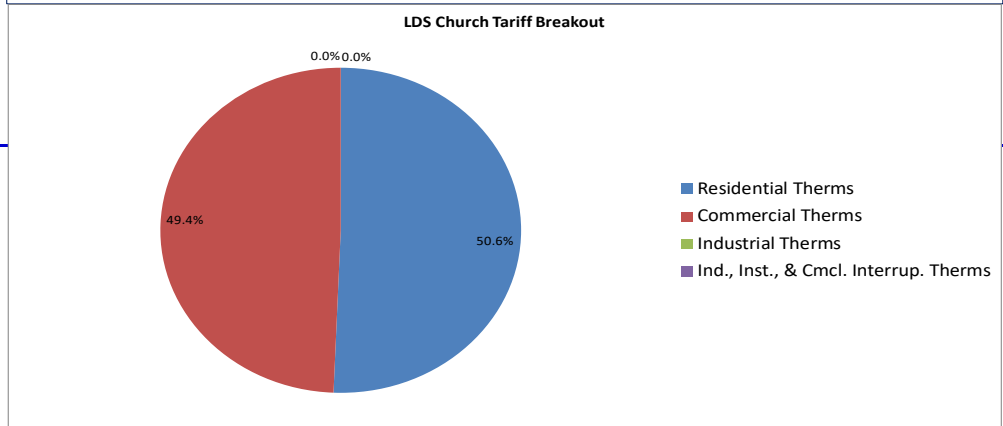
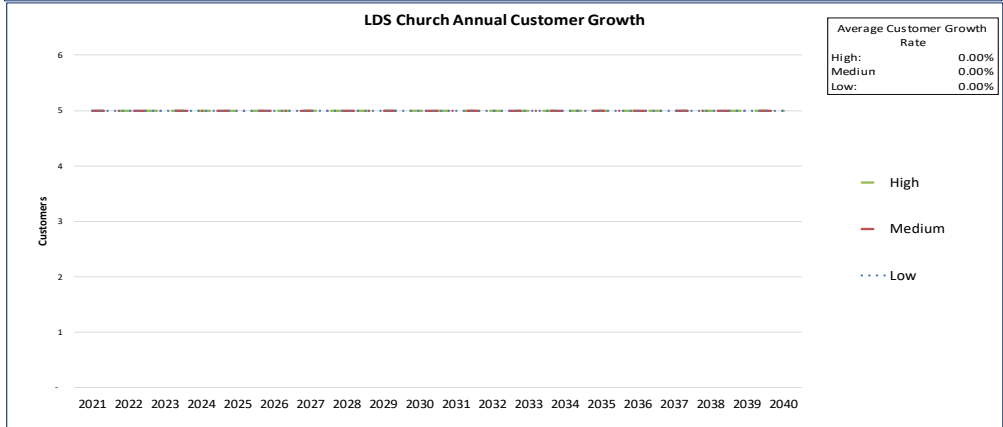
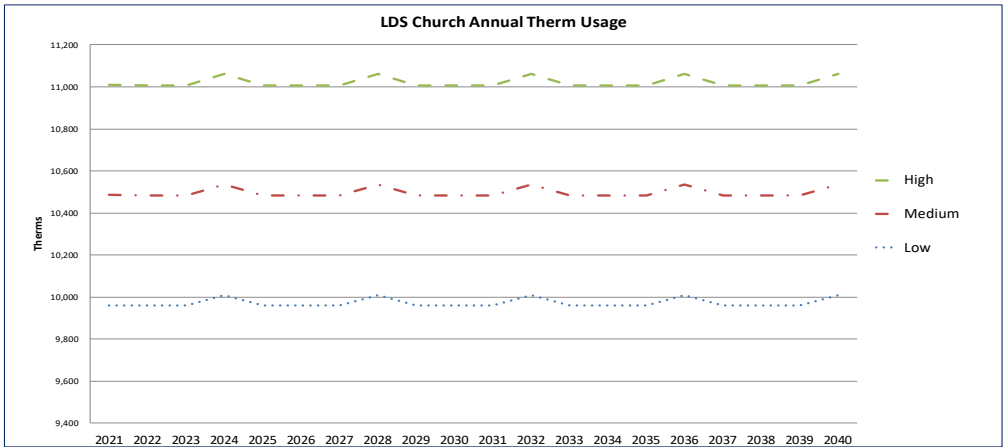
Lawrence															
Annual Requirements (Therms)										Annual Change					
Low			Medium			High				Low		Medium		High	
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	47,024	17,461	64,485	49,499	18,380	67,879	51,974	19,299	71,273	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	47,178	17,591	64,769	49,661	18,517	68,178	52,144	19,443	71,587	0.33%	0.74%	0.44%	0.33%	0.74%	0.44%
2023	47,356	17,685	65,042	49,849	18,616	68,465	52,341	19,547	71,888	0.38%	0.54%	0.42%	0.38%	0.54%	0.42%
2024	47,859	17,734	65,594	50,378	18,668	69,046	52,897	19,601	72,498	1.06%	0.28%	0.85%	1.06%	0.28%	0.85%
2025	47,762	17,831	65,593	50,276	18,770	69,046	52,790	19,708	72,498	-0.20%	0.55%	0.00%	-0.20%	0.55%	0.00%
2026	47,946	17,929	65,875	50,470	18,873	69,342	52,993	19,816	72,809	0.39%	0.55%	0.43%	0.39%	0.55%	0.43%
2027	48,100	18,060	66,160	50,631	19,010	69,642	53,163	19,961	73,124	0.32%	0.73%	0.43%	0.32%	0.73%	0.43%
2028	48,526	18,211	66,736	51,080	19,169	70,249	53,634	20,128	73,761	0.89%	0.84%	0.87%	0.89%	0.84%	0.87%
2029	48,459	18,279	66,739	51,010	19,242	70,251	53,560	20,204	73,764	-0.14%	0.38%	0.00%	-0.14%	0.38%	0.00%
2030	48,684	18,349	67,033	51,247	19,314	70,561	53,809	20,280	74,089	0.46%	0.38%	0.44%	0.46%	0.38%	0.44%
2031	48,879	18,451	67,330	51,451	19,423	70,874	54,024	20,394	74,417	0.40%	0.56%	0.44%	0.40%	0.56%	0.44%
2032	49,311	18,608	67,919	51,906	19,587	71,493	54,501	20,566	75,068	0.88%	0.85%	0.87%	0.88%	0.85%	0.87%
2033	49,190	18,747	67,938	51,779	19,734	71,513	54,368	20,721	75,089	-0.24%	0.75%	0.03%	-0.24%	0.75%	0.03%
2034	49,390	18,854	68,245	51,990	19,847	71,836	54,589	20,839	75,428	0.41%	0.57%	0.45%	0.41%	0.57%	0.45%
2035	49,624	18,928	68,552	52,236	19,924	72,160	54,848	20,921	75,768	0.47%	0.39%	0.45%	0.47%	0.39%	0.45%
2036	50,137	19,022	69,159	52,775	20,023	72,799	55,414	21,025	76,439	1.03%	0.50%	0.88%	1.03%	0.50%	0.88%
2037	50,051	19,133	69,184	52,685	20,140	72,825	55,319	21,147	76,466	-0.17%	0.58%	0.04%	-0.17%	0.58%	0.04%
2038	50,226	19,279	69,505	52,869	20,293	73,163	55,513	21,308	76,821	0.35%	0.76%	0.46%	0.35%	0.76%	0.46%
2039	50,406	19,426	69,832	53,059	20,448	73,507	55,712	21,471	77,182	0.36%	0.76%	0.47%	0.36%	0.76%	0.47%
2040	50,932	19,525	70,457	53,613	20,553	74,165	56,293	21,580	77,874	1.04%	0.51%	0.90%	1.04%	0.51%	0.90%

Peak Day - BaseLoad										Annual Change					
Low			Medium			High				Low		Medium		High	
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	48	556	604	50	585	636	53	615	667	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	48	558	606	51	587	638	53	617	670	0.74%	0.37%	0.40%	0.74%	0.37%	0.40%
2023	48	560	609	51	590	641	54	619	673	0.54%	0.39%	0.40%	0.54%	0.39%	0.40%
2024	49	565	614	51	595	646	54	625	679	0.28%	0.93%	0.88%	0.28%	0.93%	0.88%
2025	49	568	617	51	598	649	54	627	681	0.55%	0.39%	0.41%	0.55%	0.39%	0.41%
2026	49	567	616	52	597	649	54	627	681	0.55%	-0.09%	-0.04%	0.55%	-0.09%	-0.04%
2027	49	569	619	52	599	651	55	629	684	0.73%	0.38%	0.41%	0.73%	0.38%	0.41%
2028	50	572	622	53	602	654	55	632	687	0.84%	0.41%	0.44%	0.84%	0.41%	0.44%
2029	50	574	624	53	604	657	55	635	690	0.38%	0.42%	0.42%	0.38%	0.42%	0.42%
2030	50	579	630	53	610	663	56	640	696	0.38%	0.91%	0.87%	0.38%	0.91%	0.87%
2031	51	582	632	53	612	666	56	643	699	0.56%	0.41%	0.42%	0.56%	0.41%	0.42%
2032	51	581	632	54	612	666	56	643	699	0.85%	-0.07%	0.00%	0.85%	-0.07%	0.00%
2033	51	584	635	54	614	668	57	645	702	0.75%	0.40%	0.43%	0.75%	0.40%	0.43%
2034	52	586	638	54	617	671	57	648	705	0.57%	0.42%	0.43%	0.57%	0.42%	0.43%
2035	52	589	640	55	620	674	57	651	708	0.39%	0.44%	0.43%	0.39%	0.44%	0.43%
2036	52	594	646	55	626	680	58	657	714	0.50%	0.95%	0.92%	0.50%	0.95%	0.92%
2037	52	594	646	55	626	680	58	657	714	0.58%	-0.06%	-0.01%	0.58%	-0.06%	-0.01%
2038	53	596	649	56	628	683	58	659	717	0.76%	0.41%	0.44%	0.76%	0.41%	0.44%
2039	53	599	652	56	630	686	59	662	721	0.76%	0.42%	0.45%	0.76%	0.42%	0.45%
2040	53	602	655	56	633	690	59	665	724	0.51%	0.47%	0.48%	0.51%	0.47%	0.48%

Therms Usage by Class										Annual Change					
Low			Medium			High				Low		Medium		High	
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	47,452	17,033	64,485	49,500	17,929	67,429	52,447	18,826	71,273	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	47,784	16,985	64,769	50,299	17,879	68,178	52,814	18,773	71,587	0.70%	-0.28%	0.44%	0.70%	-0.28%	0.44%
2023	48,117	16,924	65,042	50,650	17,815	68,465	53,182	18,706	71,888	0.70%	-0.36%	0.42%	0.70%	-0.36%	0.42%
2024	48,649	16,945	65,594	51,209	17,837	69,046	53,769	18,729	72,498	1.10%	0.12%	0.85%	1.10%	0.12%	0.85%
2025	48,792	16,801	65,593	51,360	17,686	69,046	53,928	18,570	72,498	0.29%	-0.35%	0.00%	0.29%	-0.35%	0.00%
2026	49,136	16,739	65,875	51,722	17,620	69,342	54,308	18,501	72,809	0.71%	-0.37%	0.43%	0.71%	-0.37%	0.43%
2027	49,484	16,675	66,160	52,089	17,553	69,642	54,693	18,431	73,124	0.71%	-0.38%	0.43%	0.71%	-0.38%	0.43%
2028	50,042	16,694	66,736	52,676	17,573	70,249	55,310	18,451	73,761	1.13%	0.11%	0.87%	1.13%	0.11%	0.87%
2029	50,191	16,548	66,739	52,833	17,419	70,251	55,474	18,290	73,764	0.30%	-0.88%	0.00%	0.30%	-0.88%	0.00%
2030	50,551	16,482	67,033	53,211	17,350	70,561	55,872	18,217	74,089	0.72%	-0.40%	0.44%	0.72%	-0.40%	0.44%
2031	50,914	16,416	67,330	53,594	17,280	70,874	56,273	18,144	74,417	0.72%	-0.40%	0.44%	0.72%	-0.40%	0.44%
2032	51,489	16,429	67,919	54,199	17,294	71,493	56,909	18,159	75,068	1.13%	0.08%	0.87%	1.13%	0.08%	0.87%
2033	51,654	16,283	67,938	54,373	17,140	71,513	57,092	17,997	75,089	0.32%	-0.89%	0.03%	0.32%	-0.89%	0.03%
2034	52,030	16,215	68,245	54,768	17,068	71,836	57,506	17,922	75,428	0.73%	-0.42%	0.45%	0.73%	-0.42%	0.45%
2035	52,407	16,145	68,552	55,165	16,995	72,160	57,924	17,845	75,768	0.73%	-0.43%	0.45%	0.73%	-0.43%	0.45%
2036	53,004	16,154	69,159	55,794	17,005	72,799	58,544	17,855	76,439	1.14%	0.06%	0.88%	1.14%	0.06%	0.88%
2037	53,178	16,006	69,184	55,977	16,848	72,825	58,775	17,691	76,466	0.33%	-0.92%	0.04%	0.33%	-0.92%	0.04%
2038	53,570	15,935	69,505	56,389	16,773	73,163	59,209	17,612	76,821	0.74%	-0.45%	0.46%	0.74%	-0.45%	0.46%
2039	53,969	15,863	69,832	56,809	16,698	73,507	59,649	17,533	77,182	0.74%	-0.45%	0.47%	0.74%	-0.45%	0.47%
2040	54,590	15,868	70,457	57,463	16,703	74,165	60,336	17,538	77,874	1.15%	0.03%	0.90%	1.15%	0.03%	0.90%

Customer Count Forecast										Annual Change					
Low			Medium			High				Low		Medium		High	
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2025	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2026	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2029	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2030	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2031	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2032	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2033	66	19	85	66	19	85	66	19	85	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2034	66	19	85	66	19	85	66	19							



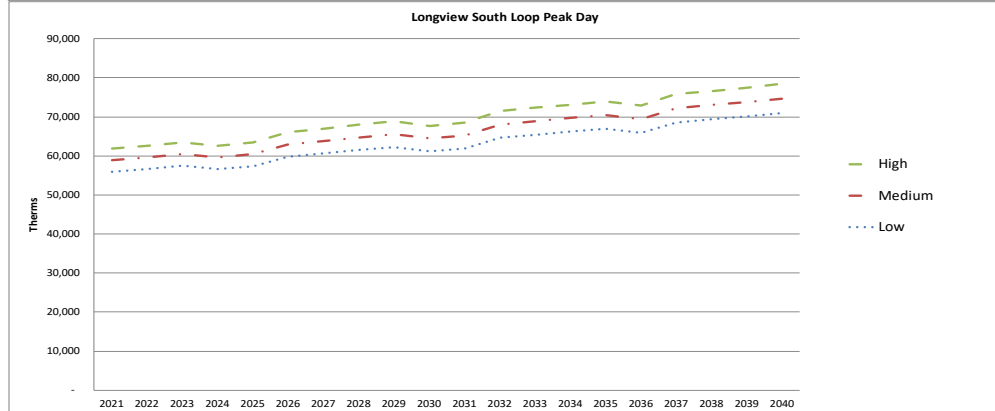
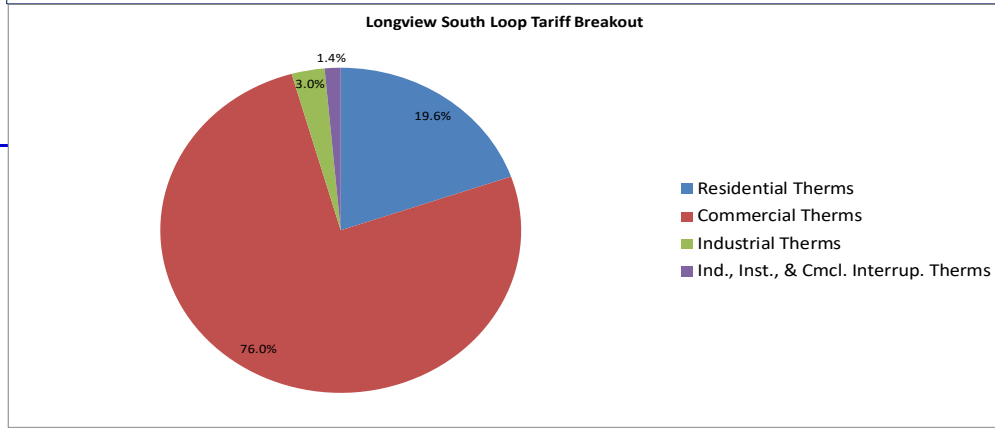
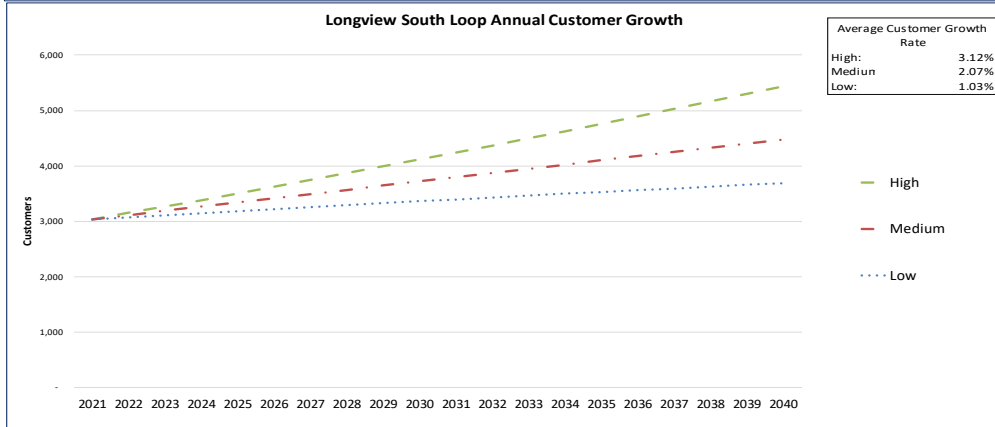
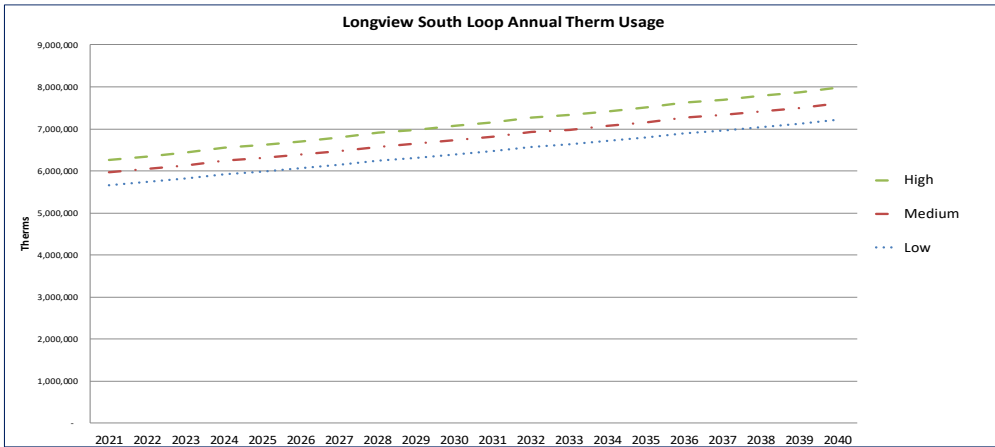


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Longview South Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	3,913,834	1,750,664	5,664,497	4,119,825	1,842,804	5,962,629	4,325,816	1,934,944	6,260,760	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,969,552	1,774,186	5,743,738	4,178,476	1,867,564	6,046,040	4,387,400	1,960,942	6,348,342	1.42%	1.34%	1.40%	1.42%	1.34%	1.40%	1.42%	1.34%
2023	4,591,100	1,233,462	5,824,562	4,832,736	1,298,381	6,131,118	5,074,373	1,363,300	6,437,674	15.66%	-30.48%	1.41%	15.66%	-30.48%	1.41%	15.66%	-30.48%
2024	4,563,568	1,364,296	5,927,864	4,803,756	1,436,101	6,239,857	5,043,943	1,507,906	6,551,849	-0.60%	10.61%	-0.60%	10.61%	1.77%	-0.60%	10.61%	1.77%
2025	4,114,601	1,873,671	5,988,271	4,331,158	1,972,285	6,303,444	4,547,717	2,070,899	6,618,616	-9.84%	37.34%	-1.02%	-9.84%	37.34%	1.02%	-9.84%	37.34%
2026	4,177,053	1,892,116	6,069,169	4,396,898	1,991,700	6,388,598	4,616,743	2,091,286	6,708,028	1.52%	0.98%	1.35%	1.52%	0.98%	1.35%	1.52%	0.98%
2027	4,274,966	1,875,103	6,150,069	4,499,964	1,973,793	6,473,757	4,724,962	2,072,483	6,797,445	2.34%	-0.90%	1.33%	2.34%	-0.90%	1.33%	2.34%	-0.90%
2028	4,924,939	1,324,410	6,249,349	5,184,146	1,394,116	6,578,262	5,443,354	1,463,822	6,907,175	15.20%	-29.37%	1.61%	15.20%	-29.37%	1.61%	15.20%	-29.37%
2029	4,681,175	1,630,926	6,312,101	4,927,553	1,716,764	6,644,316	5,173,930	1,802,602	6,976,532	-4.95%	23.14%	1.00%	-4.95%	23.14%	1.00%	-4.95%	23.14%
2030	4,921,815	1,471,131	6,392,946	5,180,858	1,548,559	6,729,417	5,439,900	1,625,987	7,065,888	5.14%	-9.80%	1.28%	5.14%	-9.80%	1.28%	5.14%	-9.80%
2031	4,453,960	2,019,837	6,473,797	4,688,379	2,126,145	6,814,523	4,922,797	2,232,452	7,155,249	-9.51%	37.30%	1.26%	-9.51%	37.30%	1.26%	-9.51%	37.30%
2032	4,538,058	2,039,761	6,577,820	4,776,903	2,147,117	6,924,021	5,015,749	2,254,473	7,270,222	1.89%	0.99%	1.61%	1.89%	0.99%	1.61%	1.89%	0.99%
2033	4,571,238	2,062,809	6,634,048	4,811,830	2,171,378	6,983,208	5,052,421	2,279,947	7,332,368	0.73%	1.13%	0.85%	0.73%	1.13%	0.85%	0.73%	1.13%
2034	5,294,555	1,420,296	6,714,851	5,573,217	1,495,048	7,068,265	5,851,878	1,569,800	7,421,678	15.82%	-31.15%	1.22%	15.82%	-31.15%	1.22%	15.82%	-31.15%
2035	5,046,958	1,750,623	6,797,580	5,312,587	1,842,761	7,155,348	5,578,216	1,934,899	7,513,115	-4.68%	23.26%	1.23%	-4.68%	23.26%	1.23%	-4.68%	23.26%
2036	4,748,697	2,153,956	6,902,653	4,998,628	2,267,322	7,265,950	5,248,560	2,380,688	7,629,248	-5.91%	23.04%	1.55%	-5.91%	23.04%	1.55%	-5.91%	23.04%
2037	4,786,504	2,173,140	6,959,644	5,038,425	2,287,516	7,325,941	5,290,346	2,401,892	7,732,831	0.80%	0.89%	0.83%	0.80%	0.89%	0.83%	0.80%	0.89%
2038	4,879,089	2,161,435	7,040,524	5,135,883	2,275,195	7,411,078	5,392,677	2,388,555	7,861,332	1.93%	-0.54%	1.16%	1.93%	-0.54%	1.16%	1.93%	-0.54%
2039	4,934,741	2,184,603	7,119,345	5,194,465	2,299,582	7,494,047	5,454,188	2,414,551	7,967,750	1.14%	1.07%	1.12%	1.14%	1.07%	1.12%	1.14%	1.07%
2040	5,604,092	1,621,430	7,225,522	5,899,045	1,706,768	7,605,813	6,193,997	1,792,106	7,986,104	13.56%	-25.78%	1.49%	13.56%	-25.78%	1.49%	13.56%	-25.78%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	4,796	51,125	55,921	5,049	53,816	58,864	5,301	56,506	61,808	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	4,861	51,824	56,685	5,117	54,552	59,668	5,372	57,279	62,652	1.34%	1.37%	1.37%	1.34%	1.37%	1.37%	1.34%	1.37%
2023	3,379	54,068	57,448	3,557	56,914	60,471	3,735	59,760	63,495	-30.48%	4.33%	1.35%	-30.48%	4.33%	1.35%	-30.48%	4.33%
2024	3,738	52,911	56,649	3,935	55,696	59,631	4,131	58,481	62,612	10.61%	-2.14%	-1.39%	10.61%	-2.14%	-1.39%	10.61%	-2.14%
2025	5,123	55,566	60,689	5,404	55,007	60,410	5,674	57,757	63,431	37.34%	-1.24%	1.31%	37.34%	-1.24%	1.31%	37.34%	-1.24%
2026	5,184	54,664	59,847	5,457	57,541	62,997	5,730	60,418	66,147	0.98%	4.61%	4.28%	0.98%	4.61%	4.28%	0.98%	4.61%
2027	5,137	55,471	60,609	5,408	58,391	63,798	5,678	61,310	66,988	-0.90%	1.48%	1.27%	-0.90%	1.48%	1.27%	-0.90%	1.48%
2028	3,629	57,859	61,487	3,819	60,904	64,724	4,010	63,949	67,960	-29.37%	4.30%	1.45%	-29.37%	4.30%	1.45%	-29.37%	4.30%
2029	4,468	57,781	62,249	4,703	60,822	65,525	4,939	63,863	68,802	23.14%	-0.14%	1.24%	23.14%	-0.14%	1.24%	23.14%	-0.14%
2030	4,030	57,170	61,200	4,243	60,179	64,421	4,455	63,188	67,642	-9.80%	-1.06%	-1.06%	-9.80%	-1.06%	-1.06%	-9.80%	-1.06%
2031	5,534	56,403	61,937	5,825	59,372	65,197	6,116	62,340	68,457	37.30%	-1.34%	1.20%	37.30%	-1.34%	1.20%	37.30%	-1.34%
2032	5,588	59,064	64,652	5,883	62,173	68,055	6,177	65,281	71,458	0.99%	4.72%	4.38%	0.99%	4.72%	4.38%	0.99%	4.72%
2033	5,652	59,761	65,412	5,949	62,906	68,855	6,246	66,051	72,298	1.13%	1.18%	1.18%	1.13%	1.18%	1.18%	1.13%	1.18%
2034	3,891	62,280	66,172	4,096	65,558	69,654	4,301	68,236	73,137	-31.15%	4.22%	1.16%	-31.15%	4.22%	1.16%	-31.15%	4.22%
2035	4,796	62,133	66,929	5,049	65,404	70,452	5,301	68,674	73,975	23.26%	-0.24%	1.15%	23.26%	-0.24%	1.15%	23.26%	-0.24%
2036	5,901	59,970	65,871	6,212	63,126	69,338	6,522	66,282	72,805	23.04%	-3.48%	-1.58%	23.04%	-3.48%	-1.58%	23.04%	-3.48%
2037	5,954	62,622	68,576	6,267	65,918	72,185	6,581	69,213	75,794	0.89%	4.42%	4.11%	0.89%	4.42%	4.11%	0.89%	4.42%
2038	5,922	63,411	69,333	6,233	66,749	72,982	6,545	70,086	76,631	-0.54%	1.26%	1.10%	-0.54%	1.26%	1.10%	-0.54%	1.26%
2039	5,985	64,104	70,090	6,300	67,478	73,779	6,615	70,852	77,467	1.07%	1.09%	1.09%	1.07%	1.09%	1.09%	1.07%	1.09%
2040	4,442	66,539	70,981	4,676	70,041	74,717	4,910	73,543	78,453	-25.78%	3.80%	1.27%	-25.78%	3.80%	1.27%	-25.78%	3.80%

Therms Usage by Class												Annual Change					
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,098,280	4,566,217	5,664,497	1,156,084	4,806,544	5,962,629	1,213,888	5,046,872	6,260,760	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,127,459	4,616,279	5,743,738	1,186,798	4,859,241	6,046,040	1,246,138	5,102,203	6,348,342	2.66%	1.10%	1.40%	2.66%	1.10%	1.40%	2.66%	1.10%
2023	1,156,940	4,666,622	5,824,562	1,217,832	4,913,286	6,131,118	1,278,724	5,158,950	6,437,674	2.61%	1.11%	1.41%	2.61%	1.11%	1.41%	2.61%	1.11%
2024	1,191,111	4,736,753	5,927,864	1,253,801	4,986,056	6,239,857	1,316,491	5,235,358	6,551,849	2.95%	1.48%	1.77%	2.95%	1.48%	1.77%	2.95%	1.48%
2025	1,216,391	4,771,880	5,988,271	1,280,412	5,023,032	6,303,444	1,344,432	5,274,183	6,618,616	2.12%	0.74%	1.02%	2.12%	0.74%	1.02%	2.12%	0.74%
2026	1,245,870	4,823,298	6,069,169	1,311,442	5,071,156	6,388,598	1,377,015	5,331,014	6,708,028	2.42%	1.08%	1.35%	2.42%	1.08%	1.35%	2.42%	1.08%
2027	1,275,344	4,874,725	6,150,069	1,342,467	5,131,290	6,473,757	1,409,591	5,385,854	6,797,445	2.37%	1.07%	1.33%	2.37%	1.07%	1.33%	2.37%	1.07%
2028	1,308,835	4,940,515	6,249,349	1,377,721	5,200,541	6,578,262	1,446,607	5,460,569	6,907,175	2.63%	1.35%	1.61%	2.63%	1.35%	1.61%	2.63%	1.35%
2029	1,334,401	4,977,700	6,312,101	1,404,633	5,239,684	6,644,316	1,474,864	5,501,668	6,976,532	1.95%	0.75%	1.00%	1.95%	0.75%	1.00%	1.95%	0.75%
2030	1,363,852	5,029,094	6,392,946	1,435,634	5,293,783	6,729,417	1,507,415	5,558,472	7,065,888	2.21%	1.03%	1.28%	2.21%	1.03%	1.28%	2.21%	1.03%
2031	1,393,300	5,080,497	6,473,797	1,466,632	5,347,891	6,814,523	1,539,964	5,615,286	7,155,249	2.16%	1.02%	1.26%	2.16%	1.02%	1.26%	2.16%	1.02%
2032	1,427,938	5,149,881	6,577,820	1,503,093	5,420,928	6,924,021	1,578,247	5,691,974	7,270,222	2.49%	1.37%	1.61%	2.49%	1.37%	1.61%	2.49%	1.37%
2033	1,451,900	5,182,147	6,634,048	1,528,316	5,454,892	6,983,208	1,604,732	5,727,636	7,332,368	1.68%	0.63%	0.85%	1.68%	0.63%	0.85%	1.68%	0.63%
2034	1,481,312	5,233,539	6,714,851	1,559,276	5,508,989	7,068,265	1,637,240	5,784,438	7,421,678	2.03%	0.99%	1.22%	2.03%	0.99%	1.22%	2.03%	0.99%
2035	1,511,147	5,286,433	6,797,580	1,590,681	5,564,666	7,155,348	1,670,215	5,842,900	7,513,115	2.01%	1.01%	1.23%	2.01%	1.01%	1.23%	2.01%	1.01%
2036	1,546,182	5,356,471	6,902,653	1,627,560	5,638,930	7,265,950	1,708,938	5,920,310	7,629,248	2.32%	1.32%	1.22%	2.32%	1.32%	1.22%	2.32%	1.32%
2037	1,570,114</																

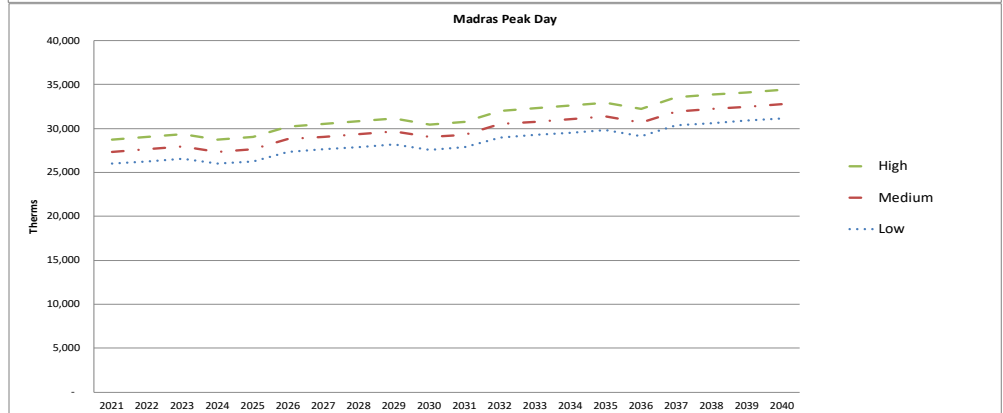
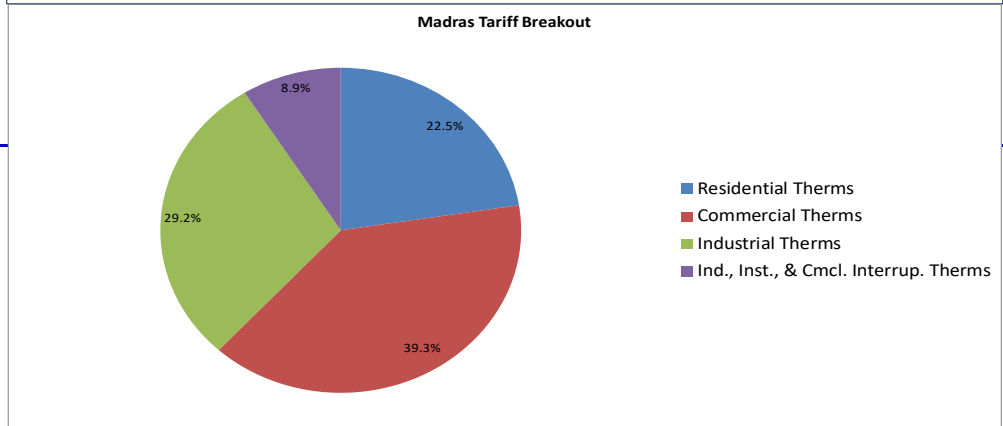
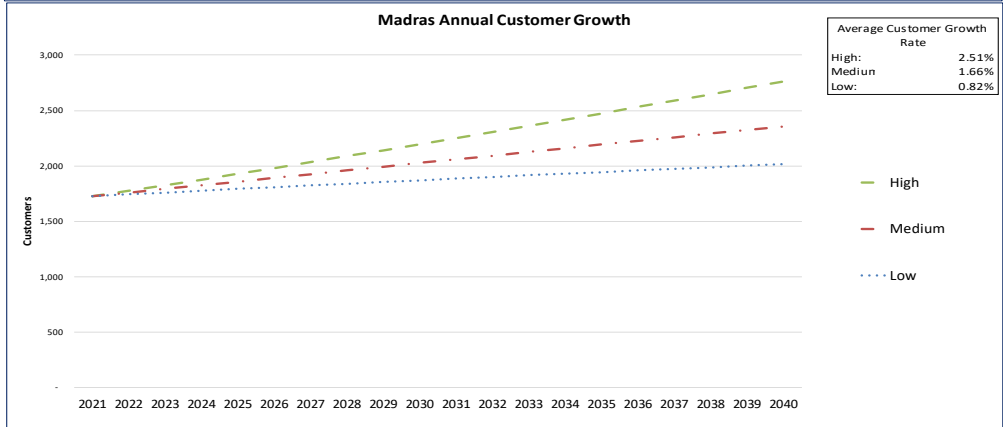
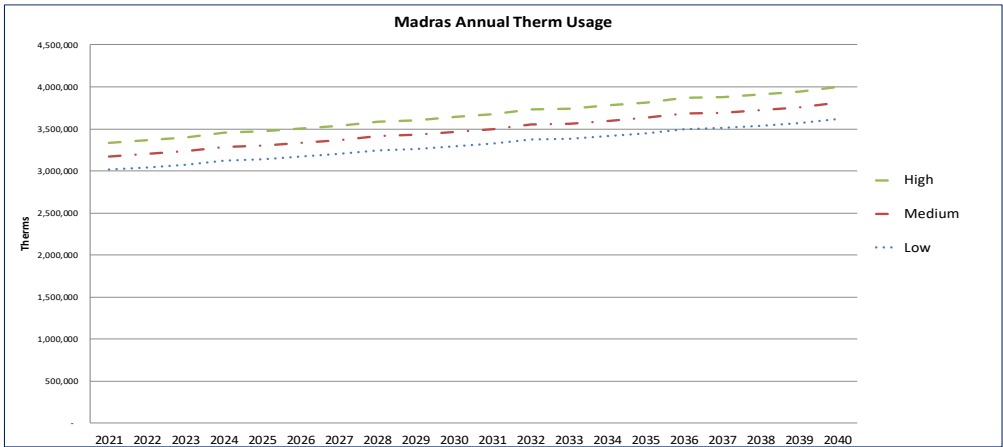


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Madras																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,179,642	834,846	3,014,489	2,603,521	569,626	3,173,146	2,733,696	598,107	3,331,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,191,909	852,359	3,044,268	2,622,143	582,349	3,204,493	2,753,251	611,467	3,364,717	0.56%	2.10%	0.99%	0.72%	2.23%	0.99%	0.72%	2.23%
2023	2,220,422	854,568	3,074,990	2,647,690	589,140	3,236,831	2,780,075	618,598	3,398,673	1.30%	0.26%	1.01%	0.97%	1.17%	1.01%	0.97%	1.17%
2024	2,264,295	858,839	3,123,134	2,698,538	588,972	3,287,510	2,833,465	618,420	3,451,885	1.98%	0.50%	1.57%	1.92%	1.57%	1.92%	-0.03%	1.57%
2025	2,279,740	858,028	3,137,768	2,715,420	589,493	3,304,913	2,849,091	618,968	3,465,059	0.68%	-0.09%	0.47%	0.55%	0.09%	0.47%	0.55%	0.09%
2026	2,302,208	866,752	3,168,960	2,739,510	596,238	3,335,748	2,876,486	626,049	3,502,535	0.99%	1.02%	0.99%	0.96%	1.14%	0.99%	0.96%	1.14%
2027	2,314,885	885,269	3,200,153	2,759,183	609,399	3,368,582	2,897,142	639,870	3,537,011	0.55%	1.14%	0.98%	0.72%	2.21%	0.98%	0.72%	2.21%
2028	2,349,196	897,498	3,246,694	2,795,742	621,830	3,417,573	2,935,529	652,922	3,588,451	1.48%	1.38%	1.45%	1.33%	2.04%	1.45%	1.33%	2.04%
2029	2,360,283	902,230	3,262,513	2,805,508	628,716	3,434,224	2,945,783	660,152	3,605,936	0.47%	0.53%	0.49%	0.35%	1.11%	0.49%	0.35%	1.11%
2030	2,386,730	907,053	3,293,783	2,838,116	629,024	3,467,140	2,980,021	660,476	3,640,497	1.12%	1.03%	0.96%	1.16%	0.05%	0.96%	1.16%	0.05%
2031	2,416,644	908,331	3,324,976	2,870,789	629,186	3,499,974	3,014,328	660,645	3,674,973	1.25%	0.14%	0.95%	1.15%	0.03%	0.95%	1.15%	0.03%
2032	2,448,746	925,041	3,373,787	2,909,572	641,783	3,551,355	3,055,051	673,872	3,728,922	1.33%	1.84%	1.47%	1.35%	2.00%	1.47%	1.35%	2.00%
2033	2,442,094	944,203	3,386,297	2,909,099	655,424	3,564,523	3,054,554	688,195	3,742,749	-0.27%	2.07%	0.37%	-0.02%	2.13%	0.37%	-0.02%	2.13%
2034	2,470,826	946,424	3,417,250	2,934,820	662,284	3,597,105	3,081,562	695,398	3,776,960	1.18%	0.24%	0.91%	0.88%	1.05%	0.91%	0.88%	1.05%
2035	2,498,103	951,001	3,449,103	2,961,477	669,158	3,630,635	3,109,551	702,616	3,812,167	1.10%	0.48%	0.93%	1.08%	1.03%	0.93%	1.03%	0.93%
2036	2,550,905	947,277	3,498,182	3,021,344	660,953	3,682,297	3,172,411	694,000	3,866,411	2.11%	-0.39%	1.42%	2.02%	-1.23%	1.42%	2.02%	-1.23%
2037	2,554,560	955,901	3,510,461	3,027,620	667,601	3,695,222	3,179,001	700,982	3,879,983	0.14%	0.91%	0.35%	1.01%	0.15%	0.35%	1.01%	0.15%
2038	2,565,637	975,321	3,540,958	3,045,906	681,419	3,727,325	3,198,201	715,490	3,913,691	0.43%	2.03%	0.87%	0.60%	2.07%	0.87%	0.60%	2.07%
2039	2,577,185	993,339	3,570,523	3,063,054	695,391	3,758,445	3,216,207	730,161	3,946,368	0.45%	1.85%	0.83%	0.56%	2.05%	0.83%	0.56%	2.05%
2040	2,623,488	996,596	3,620,084	3,109,424	701,190	3,810,615	3,264,896	736,250	4,001,145	1.80%	0.33%	1.39%	0.83%	1.39%	1.51%	0.83%	1.39%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	2,287	23,706	25,993	1,561	25,801	27,361	1,639	27,091	28,729	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,335	23,928	26,264	1,595	26,050	27,646	1,675	27,353	29,028	2.10%	0.94%	1.04%	2.23%	0.97%	1.04%	2.23%	0.97%
2023	2,341	24,194	26,535	1,614	26,318	27,932	1,695	27,633	29,328	0.26%	1.11%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%
2024	2,353	24,633	25,986	1,614	25,740	27,353	1,694	27,027	28,721	0.50%	-2.32%	-2.07%	-0.03%	-2.20%	-2.07%	-0.03%	-2.20%
2025	2,351	24,651	26,003	1,615	26,019	27,634	1,696	27,320	29,015	-0.09%	1.14%	1.03%	1.08%	1.03%	1.08%	1.03%	1.08%
2026	2,375	24,975	27,350	1,634	27,156	28,789	1,715	28,513	30,229	1.02%	4.49%	4.18%	1.44%	4.37%	4.18%	1.44%	4.37%
2027	2,425	25,200	27,625	1,670	27,410	29,079	1,753	28,780	30,533	2.14%	0.90%	1.01%	2.21%	0.94%	1.01%	2.21%	0.94%
2028	2,459	25,433	27,891	1,704	27,656	29,359	1,789	29,039	30,827	1.38%	0.92%	0.96%	2.04%	0.90%	0.96%	2.04%	0.90%
2029	2,472	25,696	28,167	1,723	27,927	29,650	1,809	29,324	31,132	0.53%	1.03%	0.99%	1.11%	0.98%	0.99%	1.11%	0.98%
2030	2,485	25,096	27,581	1,723	27,310	29,033	1,810	28,075	30,485	0.53%	-2.33%	-2.08%	0.05%	-2.21%	-2.08%	0.05%	-2.21%
2031	2,489	25,360	27,849	1,724	27,591	29,315	1,810	28,971	30,781	0.14%	1.05%	0.97%	0.03%	1.03%	0.97%	0.03%	1.03%
2032	2,534	26,451	28,985	1,758	28,752	30,511	1,846	29,131	32,036	1.84%	4.30%	4.08%	2.00%	4.21%	4.08%	2.00%	4.21%
2033	2,587	26,673	29,260	1,796	29,005	30,800	1,885	30,455	32,340	2.07%	0.84%	0.95%	2.15%	0.88%	0.95%	2.15%	0.88%
2034	2,593	26,941	29,534	1,814	29,274	31,089	1,905	30,738	32,643	0.24%	1.00%	0.94%	1.03%	0.93%	0.94%	1.03%	0.93%
2035	2,605	27,202	29,808	1,833	29,543	31,377	1,925	31,021	32,946	0.48%	0.97%	0.93%	1.04%	0.92%	0.93%	1.04%	0.92%
2036	2,595	26,564	29,159	1,811	28,883	30,694	1,901	30,327	32,228	-0.39%	-2.35%	-2.18%	-1.23%	-2.24%	-2.18%	-1.23%	-2.24%
2037	2,619	27,722	30,341	1,829	30,109	31,938	1,920	31,614	33,535	0.91%	4.36%	4.05%	1.01%	4.24%	4.05%	1.01%	4.24%
2038	2,672	27,939	30,611	1,867	30,355	32,222	1,960	31,873	33,833	2.03%	0.78%	0.89%	2.07%	0.82%	0.89%	2.07%	0.82%
2039	2,721	28,159	30,880	1,905	30,601	32,506	2,000	32,131	34,131	1.85%	0.79%	0.88%	2.05%	0.81%	0.88%	2.05%	0.81%
2040	2,730	28,410	31,141	1,921	30,859	32,780	2,017	32,402	34,419	0.33%	0.89%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	681,002	2,333,487	3,014,489	716,845	2,456,302	3,173,146	752,687	2,579,117	3,331,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	690,982	2,353,286	3,044,268	727,350	2,477,143	3,204,493	763,717	2,601,000	3,364,717	1.47%	0.85%	0.99%	1.47%	0.85%	0.99%	1.47%	0.85%
2023	701,191	2,373,799	3,074,990	738,095	2,498,736	3,236,831	775,000	2,623,672	3,398,673	1.48%	0.87%	1.01%	1.48%	0.87%	1.01%	1.48%	0.87%
2024	715,484	2,407,650	3,123,134	753,141	2,534,369	3,287,510	790,798	2,661,087	3,451,885	2.04%	1.43%	1.57%	2.04%	1.43%	1.57%	2.04%	1.43%
2025	721,968	2,415,800	3,137,768	759,966	2,542,947	3,302,913	797,964	2,670,995	3,465,059	0.91%	0.30%	0.47%	0.91%	0.30%	0.47%	0.91%	0.30%
2026	732,333	2,436,628	3,168,960	770,876	2,564,871	3,335,748	809,420	2,693,115	3,502,535	1.44%	0.86%	0.99%	1.44%	0.86%	0.99%	1.44%	0.86%
2027	742,697	2,457,456	3,200,153	781,787	2,586,796	3,368,582	820,876	2,716,135	3,537,011	1.42%	0.85%	0.98%	1.42%	0.85%	0.98%	1.42%	0.85%
2028	756,716	2,489,978	3,246,694	796,543	2,621,029	3,417,573	836,371	2,752,081	3,588,451	1.89%	1.32%	1.45%	1.89%	1.32%	1.45%	1.89%	1.32%
2029	763,420	2,499,093	3,262,513	803,600	2,630,624	3,434,224	843,780	2,762,155	3,605,936	0.89%	0.37%	0.49%	0.89%	0.37%	0.49%	0.89%	0.37%
2030	773,811	2,519,972	3,293,783	814,538	2,652,602	3,467,140	855,265	2,785,232	3,640,497	1.36%	0.84%	0.96%	1.36%	0.84%	0.96%	1.36%	0.84%
2031	784,176	2,540,800	3,324,976	825,448	2,674,526	3,499,974	866,720	2,808,253	3,674,973	1.34%	0.83%	0.95%	1.34%	0.83%	0.95%	1.34%	0.83%
2032	798,782	2,575,004	3,373,787	840,824	2,710,531	3,551,355	882,865	2,846,057	3,728,922	1.86%	1.35%	1.47%	1.86%	1.35%	1.47%	1.86%	1.35%
2033	804,639	2,581,658	3,386,297	846,988	2,717,535	3,564,523	889,337	2,853,412	3,742,749	0.73%	0.26%	0.37%	0.73%	0.26%	0.37%	0.73%	0.26%
2034	814,924	2,602,326	3,417,250	857,814	2,739,290	3,597,105	900,756	2,876,255	3,776,960	1.28%	0.80%	0.91%	1.28%	0.80%	0.91%	1.28%	0.80%
2035	825,423	2,623,680	3,449,103	868,866	2,761,769	3,630,635	912,310	2,899,857	3,812,167	1.29%	0.82%	0.93%	1.29%	0.82%	0.93%	1.29%	0.82%
2036	840,122	2,658,060	3,498,182	884,339	2,797,957	3,682,297	928,556	2,937,855	3,866,411	1.78%	1.31%	1.42%	1.78%	1.31%	1.42%	1.78%	1.31%
2037	845,813	2,664,648	3,510,461	890,329	2,804,892	3,695,222	934,846	2,945,137	3,879,983	0.68%	0.25%	0.35%	0.68%	0.25%	0.35%	0.68%	0.25%
2038	855,947	2,685,012	3,540,958	900,997	2,826,328	3,727,325	946,046	2,967,644	3,91								

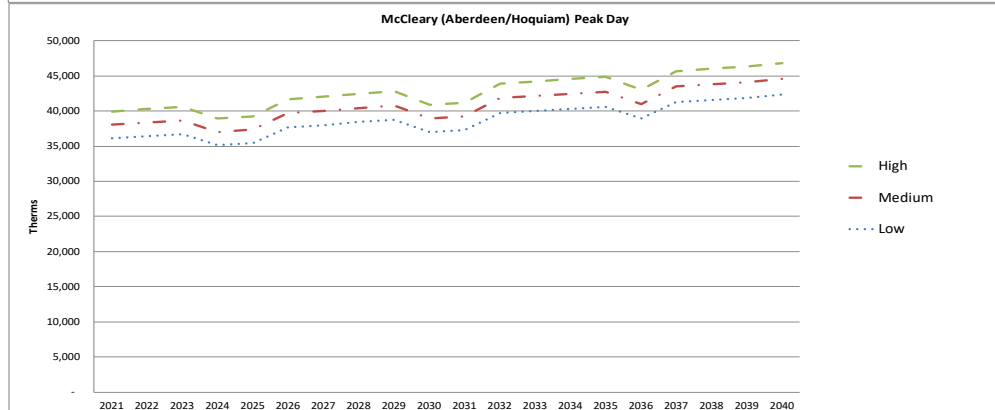
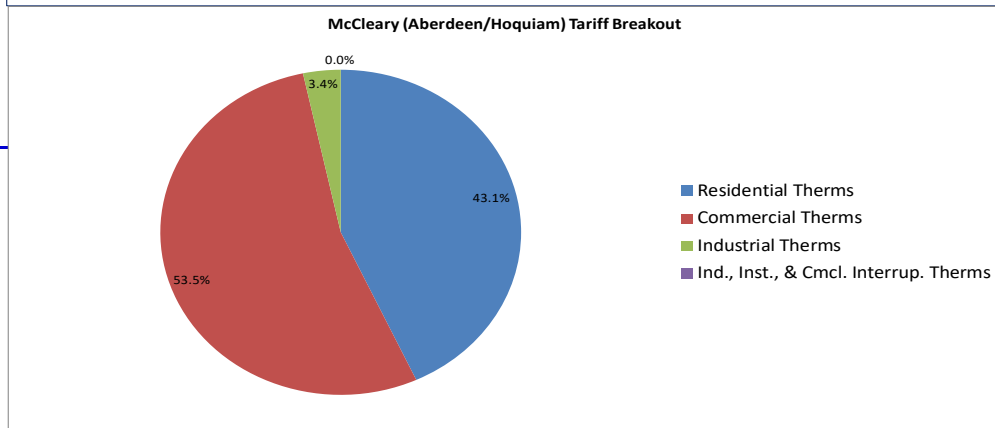
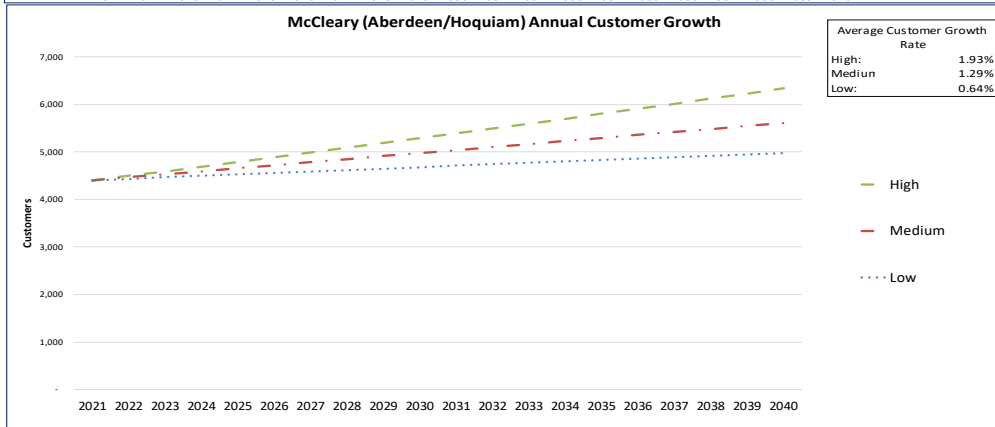
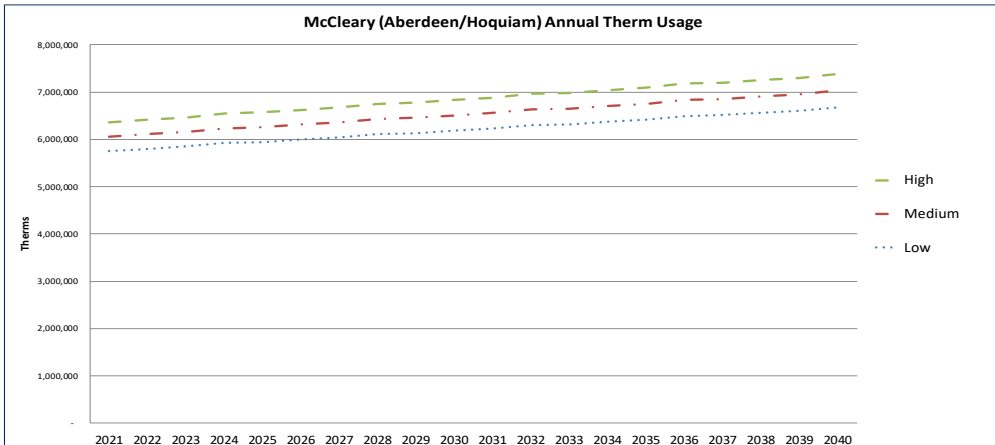


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

McCleary (Aberdeen/Hoquiam)																	
Annual Requirements (Therms)										Annual Change							
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	3,785,242	1,973,050	5,758,292	3,984,465	2,076,895	6,061,360	4,183,688	2,180,740	6,364,428	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,821,248	1,982,223	5,803,471	4,022,366	2,086,551	6,108,917	4,223,484	2,190,879	6,414,363	0.95%	0.46%	0.78%	0.95%	0.46%	0.78%	0.95%	0.46%
2023	4,214,412	1,636,131	5,850,543	4,436,224	1,722,243	6,158,467	4,658,034	1,808,356	6,466,390	10.29%	-17.46%	0.81%	10.29%	-17.46%	0.81%	10.29%	-17.46%
2024	4,244,199	1,679,724	5,923,923	4,467,578	1,768,131	6,235,709	4,690,957	1,856,538	6,547,494	0.71%	2.66%	1.25%	0.71%	2.66%	1.25%	0.71%	2.66%
2025	3,919,825	2,027,229	5,947,054	4,126,132	2,133,925	6,260,057	4,332,439	2,240,622	6,573,060	-7.64%	20.69%	0.39%	-7.64%	20.69%	0.39%	-7.64%	20.69%
2026	3,957,088	2,037,057	5,994,146	4,165,356	2,144,271	6,309,627	4,373,624	2,251,485	6,625,108	0.95%	0.48%	0.79%	0.95%	0.48%	0.79%	0.95%	0.48%
2027	3,995,215	2,046,083	6,041,299	4,205,490	2,153,772	6,359,262	4,415,764	2,261,461	6,677,225	0.96%	0.44%	0.79%	0.96%	0.44%	0.79%	0.96%	0.44%
2028	4,400,843	1,708,515	6,109,359	4,632,467	1,798,437	6,430,904	4,864,091	1,888,359	6,752,449	10.15%	-16.50%	1.13%	10.15%	-16.50%	1.13%	10.15%	-16.50%
2029	4,176,203	1,959,610	6,135,813	4,396,003	2,062,747	6,458,750	4,615,803	2,165,885	6,781,688	-5.10%	14.70%	0.43%	-5.10%	14.70%	0.43%	-5.10%	14.70%
2030	4,448,771	1,734,288	6,183,059	4,682,917	1,825,566	6,508,483	4,917,062	1,916,845	6,833,907	6.53%	-11.50%	0.77%	6.53%	-11.50%	0.77%	6.53%	-11.50%
2031	4,130,274	2,099,991	6,230,264	4,347,657	2,210,516	6,558,173	4,565,039	2,321,042	6,886,081	-7.16%	21.09%	0.76%	-7.16%	21.09%	0.76%	-7.16%	21.09%
2032	4,179,382	2,123,861	6,303,244	4,399,350	2,235,643	6,634,993	4,619,318	2,347,425	6,966,743	1.19%	1.14%	1.19%	1.19%	1.14%	1.19%	1.19%	1.14%
2033	4,189,943	2,132,737	6,322,681	4,410,467	2,244,987	6,655,454	4,630,990	2,357,236	6,988,226	0.25%	0.42%	0.31%	0.25%	0.42%	0.31%	0.25%	0.42%
2034	4,608,626	1,761,270	6,369,896	4,851,185	1,853,968	6,705,153	5,093,744	1,946,667	7,040,411	9.99%	-17.42%	0.75%	9.99%	-17.42%	0.75%	9.99%	-17.42%
2035	4,392,167	2,027,113	6,419,280	4,623,333	2,133,803	6,757,136	4,854,500	2,240,494	7,094,993	-4.70%	15.09%	0.78%	-4.70%	15.09%	0.78%	-4.70%	15.09%
2036	4,314,971	2,178,248	6,493,218	4,542,074	2,292,892	6,834,967	4,769,178	2,407,537	7,176,715	-1.76%	7.46%	1.15%	-1.76%	7.46%	1.15%	-1.76%	7.46%
2037	4,326,281	2,187,698	6,513,979	4,553,980	2,302,840	6,856,820	4,781,680	2,417,982	7,199,662	0.26%	0.43%	0.26%	0.43%	0.26%	0.43%	0.26%	0.43%
2038	4,364,807	2,196,440	6,561,247	4,594,534	2,312,041	6,906,576	4,824,260	2,427,644	7,251,904	0.89%	0.40%	0.73%	0.89%	0.40%	0.73%	0.89%	0.40%
2039	4,401,122	2,205,162	6,606,284	4,632,760	2,321,223	6,953,983	4,864,398	2,437,284	7,301,682	0.83%	0.40%	0.69%	0.83%	0.40%	0.69%	0.83%	0.40%
2040	4,808,438	1,872,576	6,681,015	5,061,514	1,971,133	7,032,647	5,314,589	2,069,690	7,384,279	9.25%	-15.08%	1.13%	9.25%	-15.08%	1.13%	9.25%	-15.08%

Peak Day - BaseLoad										Annual Change							
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	5,406	30,714	36,120	5,690	32,331	38,021	5,975	33,948	39,922	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,431	30,987	36,418	5,717	32,618	38,334	6,002	34,249	40,251	0.46%	0.89%	0.82%	0.46%	0.89%	0.82%	0.46%	0.89%
2023	4,483	32,232	36,715	4,718	33,928	38,647	4,954	35,625	40,579	-17.46%	4.02%	0.82%	-17.46%	4.02%	0.82%	-17.46%	4.02%
2024	4,602	30,588	35,190	4,844	32,198	37,042	5,086	33,808	38,894	2.66%	-5.10%	-4.15%	2.66%	-5.10%	-4.15%	2.66%	-5.10%
2025	5,554	29,918	35,472	5,846	31,493	37,339	6,139	35,667	39,706	20.89%	-2.19%	0.89%	20.89%	-2.19%	0.89%	20.89%	-2.19%
2026	5,581	32,132	37,713	5,875	33,824	39,698	6,168	36,515	41,683	0.48%	7.40%	6.32%	0.48%	7.40%	6.32%	0.48%	7.40%
2027	5,606	32,404	38,010	5,901	34,109	40,010	6,196	35,815	42,011	0.44%	0.85%	0.79%	0.44%	0.85%	0.79%	0.44%	0.85%
2028	4,681	33,736	38,417	4,927	35,512	40,439	5,174	37,287	42,461	-16.50%	4.11%	1.07%	-16.50%	4.11%	1.07%	-16.50%	4.11%
2029	5,369	33,345	38,714	5,651	35,100	40,751	5,934	36,855	42,789	14.70%	-1.16%	0.77%	14.70%	-1.16%	0.77%	14.70%	-1.16%
2030	4,751	32,238	36,989	5,002	33,934	38,936	5,252	35,631	40,883	-11.50%	-3.32%	-4.45%	-11.50%	-3.32%	-4.45%	-11.50%	-3.32%
2031	5,753	31,516	37,270	6,056	33,175	39,231	6,359	34,844	41,193	21.09%	-2.24%	0.76%	21.09%	-2.24%	0.76%	21.09%	-2.24%
2032	5,819	33,897	39,716	6,125	35,681	41,806	6,431	37,465	43,896	1.14%	7.55%	6.56%	1.14%	7.55%	6.56%	1.14%	7.55%
2033	5,843	34,169	40,012	6,151	35,967	42,118	6,458	37,766	44,224	0.42%	0.80%	0.75%	0.42%	0.80%	0.75%	0.42%	0.80%
2034	4,825	35,482	40,308	5,079	37,350	42,429	5,333	39,217	44,551	-17.42%	3.84%	0.74%	-17.42%	3.84%	0.74%	-17.42%	3.84%
2035	5,554	35,049	40,603	5,846	36,894	42,740	6,138	38,738	44,877	15.09%	-1.22%	0.73%	15.09%	-1.22%	0.73%	15.09%	-1.22%
2036	5,968	32,935	38,903	6,282	34,669	40,951	6,596	36,402	42,998	7.46%	-6.03%	-4.19%	7.46%	-6.03%	-4.19%	7.46%	-6.03%
2037	5,994	35,318	41,312	6,309	37,177	43,486	6,625	39,036	45,560	0.43%	7.23%	6.19%	0.43%	7.23%	6.19%	0.43%	7.23%
2038	6,018	35,589	41,607	6,334	37,462	43,796	6,651	39,335	45,986	0.40%	0.77%	0.71%	0.40%	0.77%	0.71%	0.40%	0.77%
2039	6,042	35,859	41,901	6,360	37,747	44,106	6,677	39,634	46,312	0.40%	0.76%	0.71%	0.40%	0.76%	0.71%	0.40%	0.76%
2040	5,130	37,187	42,317	5,400	39,144	44,544	5,670	41,101	46,771	-15.08%	3.70%	0.99%	-15.08%	3.70%	0.99%	-15.08%	3.70%

Therms Usage by Class										Annual Change							
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	2,468,751	3,289,541	5,758,292	2,598,685	3,462,675	6,061,360	2,728,619	3,635,809	6,364,428	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,501,005	3,302,466	5,803,471	2,632,637	3,476,280	6,108,917	2,764,269	3,650,094	6,414,363	1.31%	0.39%	0.78%	1.31%	0.39%	0.78%	1.31%	0.39%
2023	2,534,028	3,316,515	5,850,543	2,667,398	3,491,069	6,158,467	2,800,768	3,665,622	6,466,390	1.32%	0.43%	0.81%	1.32%	0.43%	0.81%	1.32%	0.43%
2024	2,579,137	3,344,787	5,923,923	2,714,881	3,520,828	6,235,709	2,850,625	3,696,870	6,547,494	1.78%	0.85%	1.25%	1.78%	0.85%	1.25%	1.78%	0.85%
2025	2,601,122	3,345,933	5,947,054	2,738,023	3,522,034	6,260,057	2,874,324	3,698,136	6,573,060	0.85%	0.03%	0.85%	0.03%	0.39%	0.85%	0.03%	0.39%
2026	2,634,190	3,359,955	5,994,146	2,772,832	3,536,795	6,309,627	2,911,474	3,713,625	6,625,108	1.27%	0.42%	0.73%	1.27%	0.42%	0.73%	1.27%	0.42%
2027	2,667,259	3,374,039	6,041,299	2,807,641	3,551,620	6,359,262	2,948,023	3,729,202	6,677,225	1.26%	0.42%	0.79%	1.26%	0.42%	0.79%	1.26%	0.42%
2028	2,710,346	3,399,012	6,109,359	2,852,996	3,577,907	6,430,904	2,995,646	3,756,803	6,752,449	1.62%	0.74%	1.13%	1.62%	0.74%	1.13%	1.62%	0.74%
2029	2,733,532	3,402,281	6,135,813	2,877,402	3,581,348	6,458,750	3,021,272	3,760,416	6,781,688	0.86%	0.10%	0.43%	0.86%	0.10%	0.43%	0.86%	0.10%
2030	2,766,613	3,416,445	6,183,059	2,912,225	3,596,258	6,508,483	3,057,836	3,776,071	6,833,907	1.21%	0.42%	0.77%	1.21%	0.42%	0.77%	1.21%	0.42%
2031	2,799,708	3,430,556	6,230,264	2,947,061	3,611,112	6,558,173	3,094,414	3,791,667	6,886,081	1.20%	0.41%	0.76%	1.20%	0.41%	0.76%	1.20%	0.41%
2032	2,845,176	3,458,068	6,303,244	2,994,922	3,640,071	6,634,993	3,144,668	3,822,075	6,966,743	1.62%	0.80%	1.17%	1.62%	0.80%	1.17%	1.62%	0.80%
2033	2,865,094	3,457,587	6,322,681	3,015,889	3,639,565	6,655,454	3,166,683	3,821,543	6,988,226	0.70%	-0.01%	0.31%	0.70%	-0.01%	0.31%	0.70%	-0.01%
2034	2,898,181	3,471,715	6,369,896	3,050,717	3,654,437	6,705,153	3,203,252	3,837,159	7,040,411	1.15%	0.41%	0.75%	1.15%	0.41%	0.75%	1.15%	0.41%
2035	2,932,234	3,487,046	6,419,280	3,086,562	3,670,575	6,757,136	3,240,890	3,854,104	7,094,993	1.17%	0.44%	0.78%	1.17%	0.44%	0.78%	1.17%	0.44%
2036	2,978,288	3,514,938	6,493,218	3,135,040	3,699,927	6,834,967	3,291,792	3,884,923	7,176,715	1.57%	0.80%	1.15%	1.57%	0.80%	1.15%	1.57%	0.80%
2037	2,998,603																



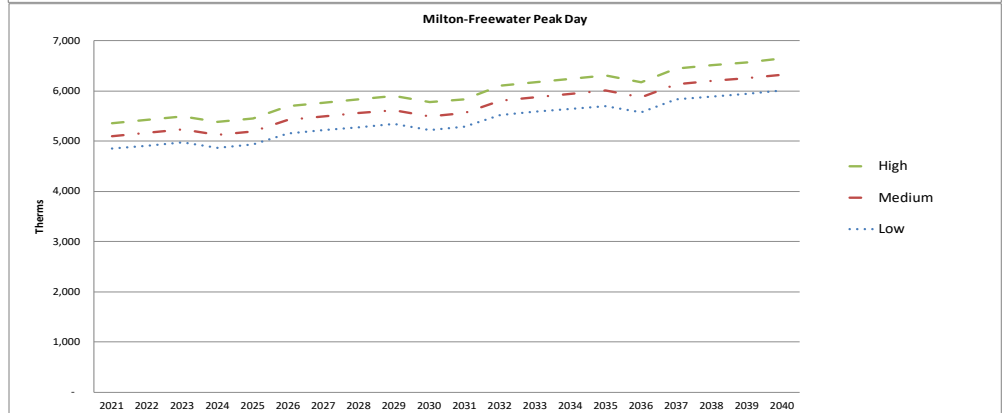
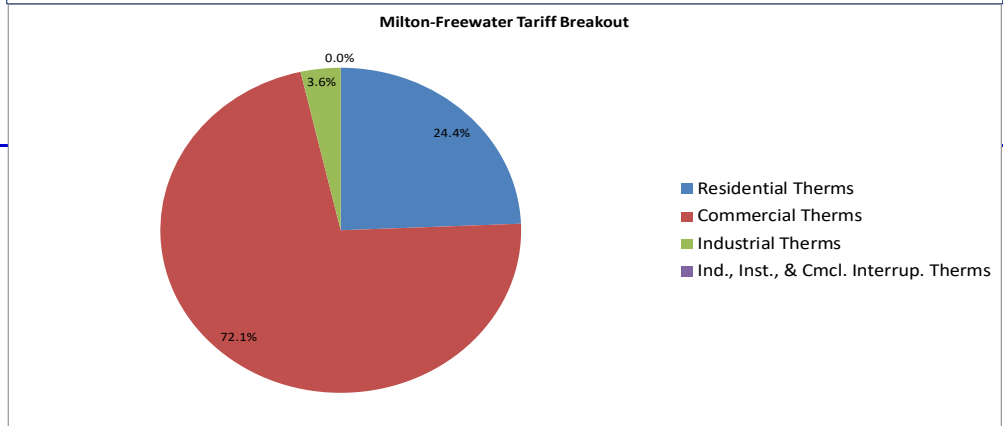
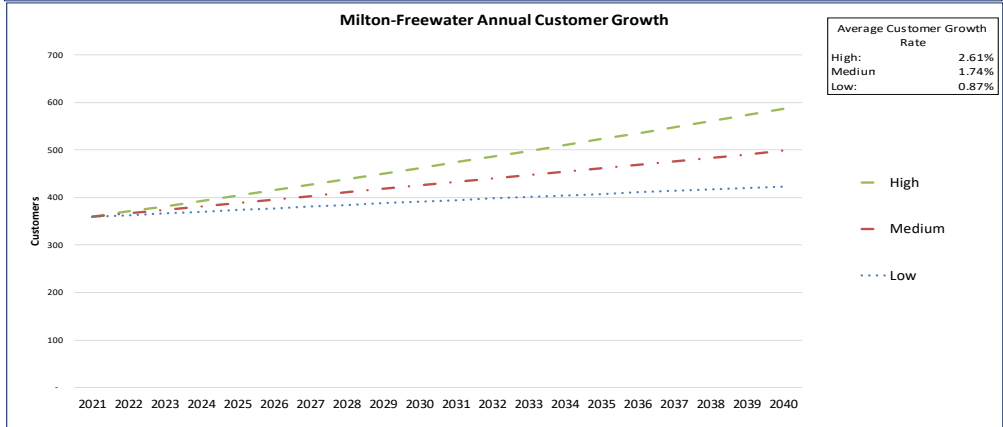
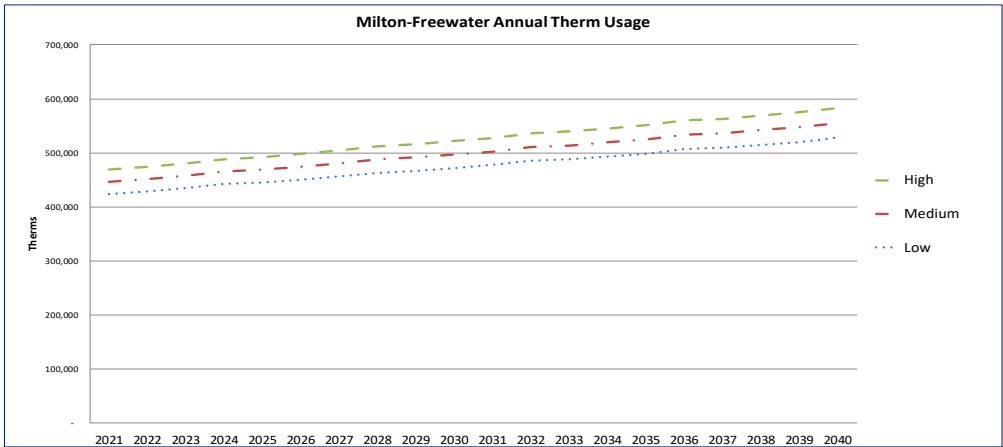
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

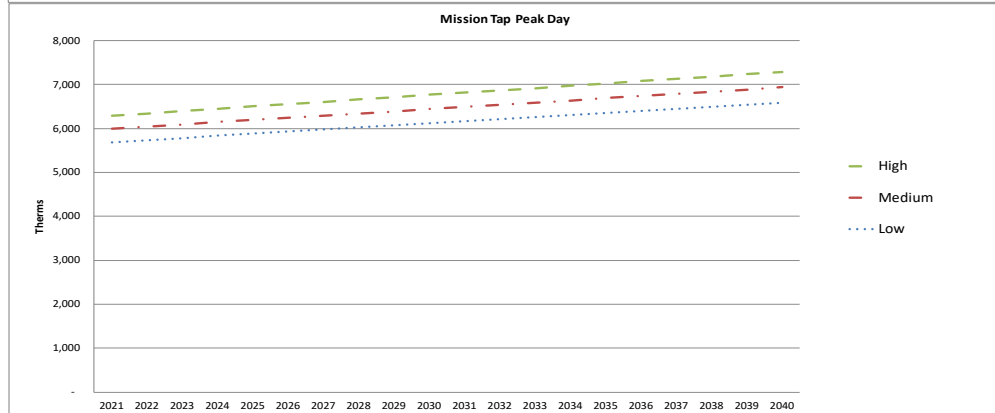
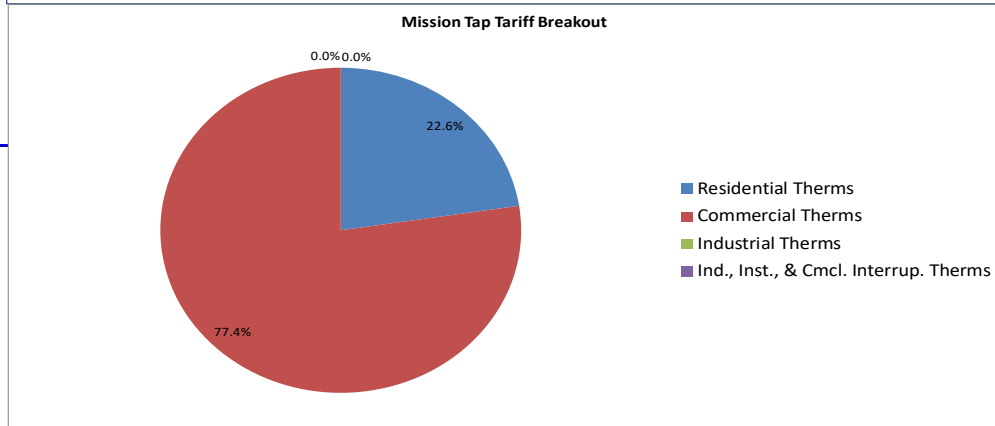
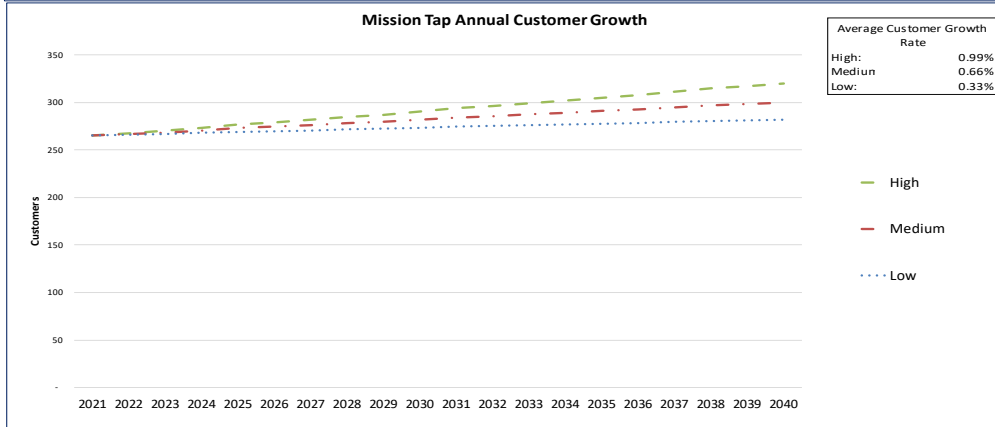
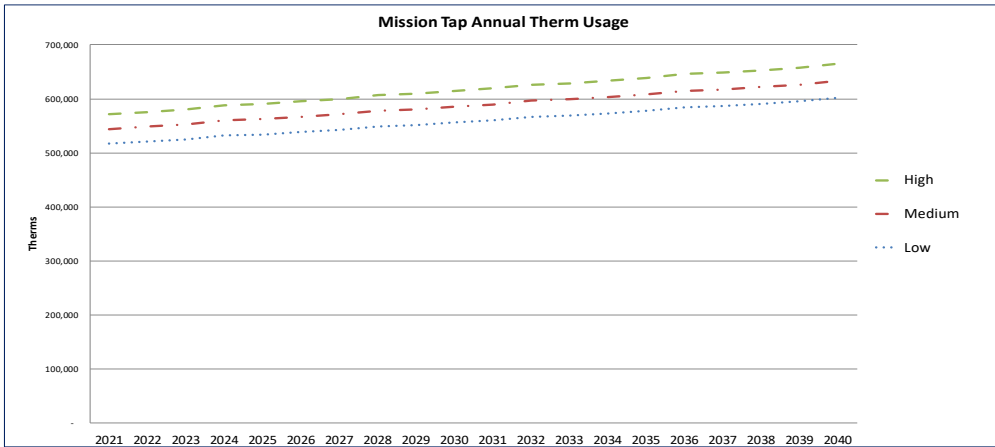
Milton-Freewater															
Annual Requirements (Therms)															
Low			Medium			High			Annual Change						
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	294,759	129,398	424,156	310,272	136,208	446,480	325,786	143,018	468,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	299,573	129,760	429,332	315,339	136,589	451,929	331,106	143,419	474,525	1.63%	0.28%	1.22%	1.63%	0.28%	1.22%
2023	307,724	126,940	434,664	323,920	133,621	457,541	340,116	140,302	480,418	2.72%	-2.17%	1.24%	2.72%	-2.17%	1.24%
2024	313,235	129,094	442,329	329,721	135,888	465,609	346,207	142,682	488,889	1.79%	1.70%	1.76%	1.79%	1.76%	1.79%
2025	307,670	137,868	445,538	323,863	145,124	468,987	340,056	152,380	492,436	-1.78%	6.80%	0.73%	-1.78%	6.80%	0.73%
2026	311,773	139,601	450,873	327,656	146,948	474,604	344,038	154,295	498,334	1.17%	1.26%	1.20%	1.17%	1.26%	1.20%
2027	315,971	140,238	456,209	332,601	147,619	480,220	349,231	155,000	504,231	1.51%	0.46%	1.18%	1.51%	0.46%	1.18%
2028	326,947	136,531	463,477	344,154	143,716	487,871	361,362	150,902	512,264	3.47%	-2.64%	1.59%	3.47%	-2.64%	1.59%
2029	323,803	143,119	466,921	340,845	150,651	491,496	357,887	158,184	516,071	-0.96%	4.83%	0.74%	-0.96%	4.83%	0.74%
2030	332,824	139,433	472,257	350,341	146,772	497,112	367,858	154,110	521,968	2.79%	-2.58%	1.14%	2.79%	-2.58%	1.14%
2031	328,813	148,779	477,592	346,119	156,610	502,729	363,425	164,440	527,865	-1.20%	6.70%	1.13%	-1.20%	6.70%	1.13%
2032	335,404	149,887	485,301	353,057	157,786	510,843	370,710	166,675	536,385	2.00%	0.75%	1.61%	2.00%	0.75%	1.61%
2033	338,029	150,100	488,129	355,820	158,000	513,820	373,611	169,900	539,511	0.78%	0.14%	0.58%	0.78%	0.14%	0.58%
2034	346,694	146,766	493,460	364,941	154,491	519,432	383,188	162,215	545,404	2.56%	-2.22%	1.09%	2.56%	-2.22%	1.09%
2035	345,300	153,676	498,976	363,474	161,764	525,238	381,647	169,852	551,499	-0.40%	4.71%	1.12%	-0.40%	4.71%	1.12%
2036	348,254	158,531	506,785	366,583	166,875	533,458	384,912	175,219	560,131	0.86%	3.16%	1.57%	0.86%	3.16%	1.57%
2037	349,447	160,245	509,692	367,839	168,679	536,518	386,231	177,113	563,343	0.34%	1.08%	0.57%	0.34%	1.08%	0.57%
2038	354,320	160,707	515,027	372,969	169,165	542,134	391,617	177,623	569,241	1.39%	0.29%	1.05%	1.39%	0.29%	1.05%
2039	359,461	160,710	520,171	378,381	169,168	547,549	397,300	177,627	574,926	1.45%	0.00%	1.00%	1.45%	0.00%	1.00%
2040	369,168	158,909	528,077	388,598	167,273	555,871	408,028	175,636	583,664	2.70%	-1.12%	1.52%	2.70%	-1.12%	1.52%

Peak Day - BaseLoad															
Low			Medium			High			Annual Change						
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	355	4,493	4,848	373	4,730	5,103	392	4,966	5,358	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	356	4,553	4,909	374	4,793	5,167	393	5,033	5,425	0.28%	1.33%	1.25%	0.28%	1.33%	1.25%
2023	348	4,622	4,969	366	4,865	5,231	384	5,038	5,493	-2.17%	1.50%	1.24%	-2.17%	1.50%	1.24%
2024	354	4,516	4,870	372	4,754	5,126	391	4,992	5,383	1.70%	-2.28%	-2.00%	1.70%	-2.28%	-2.00%
2025	378	4,551	4,929	398	4,791	5,188	417	5,030	5,448	6.80%	0.77%	1.21%	6.80%	0.77%	1.21%
2026	382	4,771	5,153	403	5,022	5,424	423	5,273	5,696	1.26%	4.82%	1.55%	1.26%	4.82%	1.55%
2027	384	4,830	5,214	404	5,084	5,488	425	5,338	5,763	0.46%	1.24%	1.18%	0.46%	1.24%	1.18%
2028	374	4,902	5,276	394	5,160	5,554	413	5,448	5,831	-2.64%	1.50%	1.19%	-2.64%	1.50%	1.19%
2029	392	4,945	5,337	413	5,205	5,618	433	5,465	5,898	4.83%	0.87%	1.15%	4.83%	0.87%	1.15%
2030	382	4,842	5,224	402	5,097	5,499	422	5,352	5,774	-2.58%	-2.08%	-2.11%	-2.58%	-2.08%	-2.11%
2031	408	4,875	5,283	429	5,132	5,561	451	5,388	5,839	6.70%	0.68%	1.12%	6.70%	0.68%	1.12%
2032	411	5,110	5,520	432	5,379	5,811	454	5,648	6,101	0.75%	4.81%	4.50%	0.75%	4.81%	4.50%
2033	411	5,170	5,581	433	5,442	5,875	455	5,714	6,169	1.18%	1.10%	1.04%	1.18%	1.10%	1.04%
2034	402	5,240	5,642	423	5,515	5,939	444	5,791	6,236	-2.22%	1.35%	1.09%	-2.22%	1.35%	1.09%
2035	421	5,281	5,702	443	5,559	6,003	465	5,837	6,303	4.71%	0.80%	1.08%	4.71%	0.80%	1.08%
2036	434	5,145	5,579	457	5,416	5,873	480	5,687	6,167	3.16%	-2.58%	-2.16%	3.16%	-2.58%	-2.16%
2037	439	5,386	5,825	462	5,670	6,132	485	5,963	6,439	1.08%	4.69%	4.41%	1.08%	4.69%	4.41%
2038	440	5,446	5,886	463	5,732	6,196	487	6,019	6,506	0.29%	1.10%	1.04%	0.29%	1.10%	1.04%
2039	450	5,507	5,947	463	5,796	6,260	487	6,086	6,573	0.00%	1.11%	1.03%	0.00%	1.11%	1.03%
2040	435	5,574	6,009	458	5,867	6,325	481	6,160	6,642	-1.12%	1.22%	1.05%	-1.12%	1.22%	1.05%

Therms Usage by Class															
Low			Medium			High			Annual Change						
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	104,809	319,347	424,156	110,325	336,155	446,480	115,842	352,963	468,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	105,943	323,389	429,332	111,519	340,410	451,929	117,095	357,430	474,525	1.08%	1.27%	1.22%	1.08%	1.27%	1.22%
2023	107,114	327,550	434,664	112,751	344,790	457,541	118,389	362,029	480,418	1.10%	1.29%	1.24%	1.10%	1.29%	1.24%
2024	108,921	333,408	442,329	114,653	350,956	465,609	120,386	368,504	488,889	1.69%	1.79%	1.76%	1.69%	1.79%	1.76%
2025	109,505	336,032	445,538	115,269	353,718	468,987	121,032	371,404	492,436	0.54%	0.79%	0.73%	0.54%	0.79%	0.73%
2026	110,676	340,197	450,873	116,502	358,102	474,604	122,327	376,007	498,334	1.07%	1.24%	1.20%	1.07%	1.24%	1.20%
2027	111,848	344,361	456,209	117,734	362,486	480,220	123,612	380,610	504,231	1.06%	1.22%	1.18%	1.06%	1.22%	1.18%
2028	113,570	349,908	463,477	119,547	368,324	487,871	125,524	386,740	512,264	1.54%	1.61%	1.59%	1.54%	1.61%	1.59%
2029	114,203	352,718	466,921	120,214	371,282	491,496	126,225	389,846	516,071	0.56%	0.80%	0.74%	0.56%	0.80%	0.74%
2030	115,375	356,882	472,257	121,447	375,665	497,112	127,519	394,449	521,968	1.03%	1.18%	1.14%	1.03%	1.18%	1.14%
2031	116,546	361,047	477,592	122,680	380,049	502,729	128,814	399,052	527,865	1.02%	1.17%	1.13%	1.02%	1.17%	1.13%
2032	118,368	366,932	485,301	124,598	386,245	510,843	130,828	405,557	536,385	1.56%	1.63%	1.61%	1.56%	1.63%	1.61%
2033	118,863	369,266	488,129	125,118	388,701	513,820	131,374	408,136	539,511	0.42%	0.64%	0.58%	0.42%	0.64%	0.58%
2034	120,033	373,427	493,460	126,350	393,081	519,432	132,668	412,736	545,404	0.98%	1.13%	1.09%	0.98%	1.13%	1.09%
2035	121,244	377,732	498,976	127,625	397,613	525,238	134,006	417,493	551,499	1.01%	1.15%	1.12%	1.01%	1.15%	1.12%
2036	123,092	383,699	506,785	129,570	403,887	533,458	136,049	424,082	560,131	1.52%	1.58%	1.52%	1.52%	1.58%	1.52%
2037	123,600	386,092	509,692	130,105	406,412	536,518	136,611	426,733	563,343	0.41%	0.63%	0.57%	0.41%	0.63%	0.57%
2038	124,771	390,256	515,027	131,338	410,796	542,134	137,905	431,336	569,241	0.95%	1.08%	1.05%	0.95%	1.08%	1.05%
2039	125,901	394,271	520,171	132,527	415,022	547,549	139,153	435,773	574,926	0.91%	1.03%	1.00%	0.91%	1.03%	1.00%
2040	127,773	400,304	528,077	134,498	421,372	555,871	141,223	442,441	583,664	1.49%	1.53%	1.52%	1.49%	1.53%	1.52%

Customer Count Forecast															
Low			Medium			High			Annual Change						
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	248	111	359	248	111	359	248	111	359	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	251	112	363	254	113	367	256	114	371	1.11%	0.90%	1.04%	2.22%	1.80%	2.09%
2023	253	113	367	259	115	374	261	117	382	1.05%	0.88%	1.00%	2.10%	1.76%	2.00%
2024	256	114	370	264	117	381	272	120	393	0.98%	0.87%	0.95%	1.96%	1.73%	1.89%
2025	259	115	374	270	119	389	281	124	404	1.06%	0.85%	0.99%	2.12%	1.70%	1.99%
2026	261	116	377	275	121	396	289	127	416	0.99%	0.84%	0.94%	1.98%	1.67%	1.89%
2027	264	117	381	280	123	403	297	130	427	0.92%	0.82%	0.89%	1.85%	1.65%	1.79%
2028	266	118	384	285	125	411	306	133	439	0.98%	0.81%	0.93%	1.96%	1.62%	1.95%
2029	269	119	388	291	127	418	314	136	451	0.93%	0.80%	0.8			



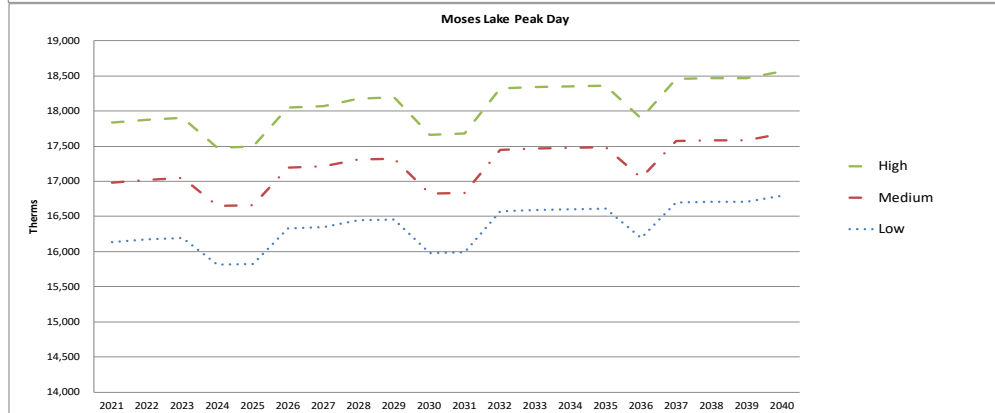
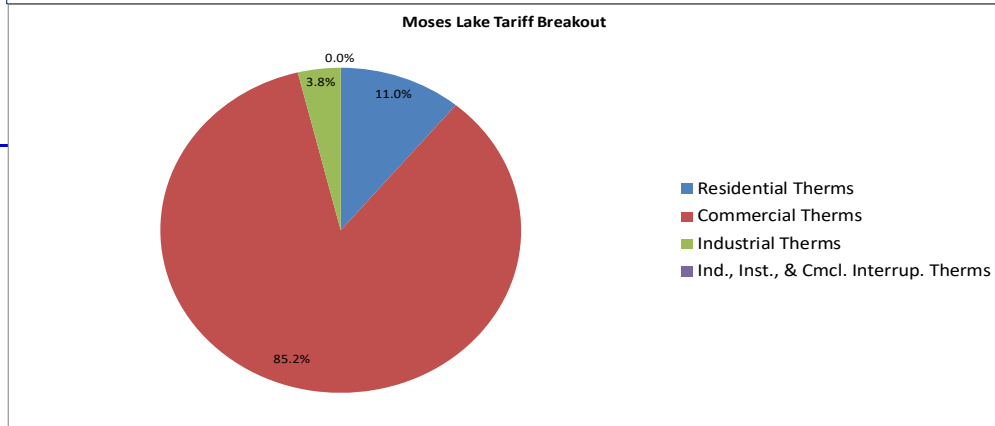
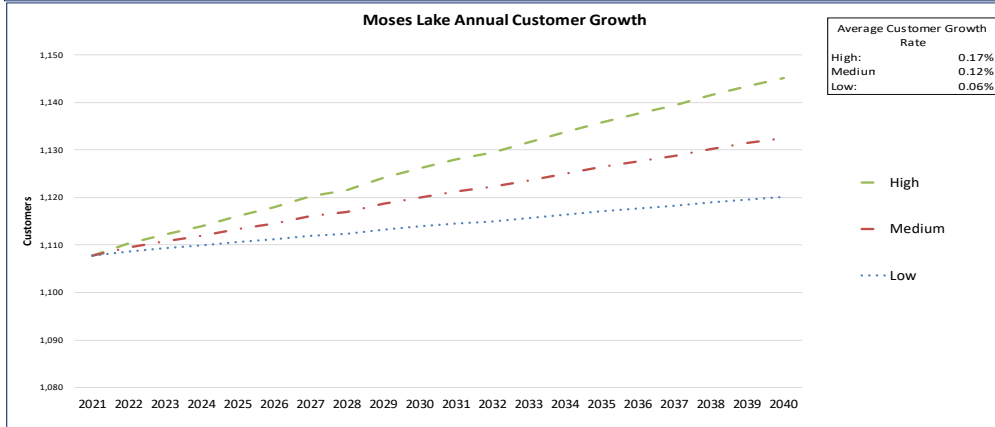
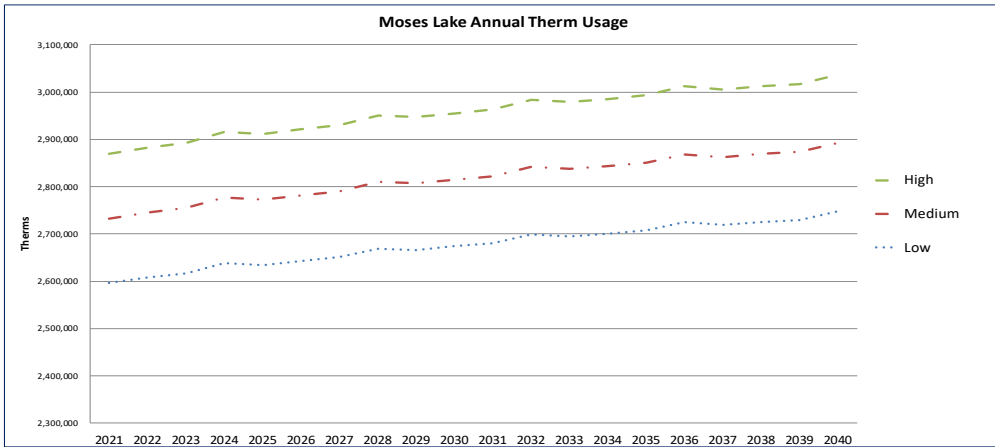


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Moses Lake																		
Annual Requirements (Therms)									Annual Change									
Low			Medium			High			Low			Medium			High			
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	1,681,943	914,224	2,596,167	1,770,467	962,340	2,732,807	1,858,990	1,010,458	2,869,448	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,690,566	916,937	2,607,503	1,779,542	965,197	2,744,740	1,868,520	1,013,457	2,881,977	0.51%	0.30%	0.44%	0.51%	0.30%	0.44%	0.51%	0.30%	0.44%
2023	1,694,479	922,549	2,617,028	1,783,663	971,104	2,754,767	1,872,846	1,019,659	2,892,505	0.23%	0.61%	0.37%	0.23%	0.61%	0.37%	0.23%	0.61%	0.37%
2024	1,705,599	932,836	2,638,434	1,795,367	981,932	2,777,299	1,885,136	1,031,029	2,916,164	0.66%	0.18%	0.82%	0.66%	0.18%	0.82%	0.66%	0.18%	0.82%
2025	1,697,468	936,412	2,633,880	1,786,809	985,696	2,772,505	1,876,149	1,034,981	2,911,130	-0.48%	0.38%	-0.17%	-0.48%	0.38%	-0.17%	-0.48%	0.38%	-0.17%
2026	1,701,047	941,786	2,642,834	1,790,576	991,354	2,781,930	1,880,105	1,040,922	2,921,027	0.21%	0.57%	0.34%	0.21%	0.57%	0.34%	0.21%	0.57%	0.34%
2027	1,708,230	942,707	2,650,936	1,798,136	992,323	2,790,459	1,888,043	1,041,939	2,929,982	0.42%	0.10%	0.31%	0.42%	0.10%	0.31%	0.42%	0.10%	0.31%
2028	1,730,086	939,188	2,669,274	1,821,143	988,619	2,809,762	1,912,200	1,038,050	2,950,250	1.28%	-0.37%	0.69%	1.28%	-0.37%	0.69%	1.28%	-0.37%	0.69%
2029	1,717,595	948,876	2,666,471	1,807,995	998,817	2,806,811	1,898,394	1,048,758	2,947,152	-0.72%	1.03%	-0.11%	-0.72%	1.03%	-0.11%	-0.72%	1.03%	-0.11%
2030	1,716,262	957,685	2,673,946	1,806,591	1,008,089	2,814,681	1,896,921	1,058,494	2,955,415	-0.08%	0.93%	0.28%	-0.08%	0.93%	0.28%	-0.08%	0.93%	0.28%
2031	1,719,528	961,373	2,680,901	1,810,029	1,011,972	2,822,001	1,900,530	1,062,570	2,963,101	0.19%	0.39%	0.26%	0.19%	0.39%	0.26%	0.19%	0.39%	0.26%
2032	1,742,123	957,348	2,699,472	1,833,814	1,007,735	2,841,549	1,925,505	1,058,122	2,983,627	1.31%	-0.42%	0.69%	1.31%	-0.42%	0.69%	1.31%	-0.42%	0.69%
2033	1,737,269	958,104	2,695,373	1,828,704	1,008,531	2,837,235	1,920,139	1,058,957	2,979,096	-0.28%	0.08%	-0.15%	-0.28%	0.08%	-0.15%	-0.28%	0.08%	-0.15%
2034	1,739,185	961,959	2,701,144	1,830,721	1,012,588	2,843,309	1,922,257	1,063,218	2,985,474	0.11%	0.40%	0.21%	0.11%	0.40%	0.21%	0.11%	0.40%	0.21%
2035	1,736,878	971,147	2,708,025	1,828,293	1,022,260	2,850,553	1,919,107	1,073,373	2,993,080	-0.13%	0.96%	0.25%	-0.13%	0.96%	0.25%	-0.13%	0.96%	0.25%
2036	1,751,235	974,030	2,725,265	1,843,405	1,025,295	2,868,700	1,935,575	1,076,559	3,012,135	0.83%	0.30%	0.64%	0.83%	0.30%	0.64%	0.83%	0.30%	0.64%
2037	1,741,173	977,762	2,718,935	1,832,814	1,029,223	2,862,037	1,924,455	1,080,684	3,005,139	-0.57%	0.38%	-0.23%	-0.57%	0.38%	-0.23%	-0.57%	0.38%	-0.23%
2038	1,747,784	977,826	2,725,610	1,839,773	1,029,291	2,869,064	1,931,761	1,080,755	3,012,517	0.38%	0.01%	0.25%	0.38%	0.01%	0.25%	0.38%	0.01%	0.25%
2039	1,752,978	970,825	2,723,803	1,845,240	1,028,475	2,873,715	1,937,502	1,079,899	3,017,401	0.30%	-0.08%	0.16%	0.30%	-0.08%	0.16%	0.30%	-0.08%	0.16%
2040	1,766,026	981,625	2,747,652	1,858,976	1,033,290	2,892,265	1,951,924	1,084,954	3,036,879	0.74%	0.47%	0.65%	0.74%	0.47%	0.65%	0.74%	0.47%	0.65%

Peak Day - Baseload																		
Low			Medium			High			Low			Medium			High			
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	2,505	13,631	16,136	2,637	14,349	16,985	2,768	15,066	17,834	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,512	13,660	16,172	2,644	14,378	17,023	2,777	15,097	17,874	0.30%	0.21%	0.22%	0.30%	0.21%	0.22%	0.30%	0.21%	0.22%
2023	2,528	13,669	16,196	2,661	14,388	17,049	2,794	15,107	17,901	0.61%	0.07%	0.15%	0.61%	0.07%	0.15%	0.61%	0.07%	0.15%
2024	2,556	13,259	15,815	2,690	13,957	16,647	2,825	14,655	17,480	1.12%	-3.00%	-2.36%	1.12%	-3.00%	-2.36%	1.12%	-3.00%	-2.36%
2025	2,566	13,266	15,826	2,701	13,958	16,659	2,836	14,656	17,492	0.38%	0.07%	0.15%	0.38%	0.07%	0.15%	0.38%	0.07%	0.15%
2026	2,580	13,751	16,331	2,716	14,475	17,191	2,852	15,199	18,051	0.57%	3.70%	3.19%	0.57%	3.70%	3.19%	0.57%	3.70%	3.19%
2027	2,583	13,766	16,349	2,719	14,491	17,209	2,855	15,215	18,070	0.10%	0.11%	0.11%	0.10%	0.11%	0.11%	0.10%	0.11%	0.11%
2028	2,573	13,870	16,443	2,709	14,600	17,308	2,844	15,329	18,173	-0.37%	0.75%	-0.57%	-0.37%	0.75%	-0.57%	-0.37%	0.75%	-0.57%
2029	2,600	13,859	16,459	2,736	14,589	17,325	2,873	15,318	18,191	1.03%	-0.08%	0.10%	1.03%	-0.08%	0.10%	1.03%	-0.08%	0.10%
2030	2,624	13,358	15,982	2,762	14,061	16,823	2,900	14,764	17,664	0.93%	-3.61%	-2.90%	0.93%	-3.61%	-2.90%	0.93%	-3.61%	-2.90%
2031	2,634	13,358	15,992	2,773	14,061	16,834	2,911	14,765	17,676	0.39%	0.00%	0.06%	0.39%	0.00%	0.06%	0.39%	0.00%	0.06%
2032	2,623	13,953	16,576	2,761	14,687	17,448	2,899	15,421	18,320	-0.42%	4.45%	3.65%	-0.42%	4.45%	3.65%	-0.42%	4.45%	3.65%
2033	2,625	13,968	16,593	2,763	14,703	17,466	2,901	15,438	18,339	0.08%	0.11%	0.10%	0.08%	0.11%	0.10%	0.08%	0.11%	0.10%
2034	2,636	13,963	16,599	2,774	14,698	17,472	2,913	15,433	18,346	0.40%	-0.03%	0.04%	0.40%	-0.03%	0.04%	0.40%	-0.03%	0.04%
2035	2,661	13,947	16,607	2,801	14,681	17,483	2,941	15,415	18,355	0.96%	-0.12%	0.05%	0.96%	-0.12%	0.05%	0.96%	-0.12%	0.05%
2036	2,669	13,525	16,193	2,809	14,237	17,046	2,949	14,948	17,898	0.30%	-3.02%	-2.49%	0.30%	-3.02%	-2.49%	0.30%	-3.02%	-2.49%
2037	2,679	14,018	16,696	2,820	14,755	17,575	2,961	15,493	18,454	0.38%	3.64%	3.11%	0.38%	3.64%	3.11%	0.38%	3.64%	3.11%
2038	2,679	14,027	16,706	2,820	14,766	17,586	2,961	15,504	18,465	0.01%	0.07%	0.06%	0.01%	0.07%	0.06%	0.01%	0.07%	0.06%
2039	2,677	14,031	16,708	2,818	14,769	17,587	2,959	15,508	18,466	-0.08%	0.03%	0.01%	-0.08%	0.03%	0.01%	-0.08%	0.03%	0.01%
2040	2,689	14,105	16,794	2,831	14,847	17,678	2,972	15,590	18,562	0.47%	0.53%	0.52%	0.47%	0.53%	0.52%	0.47%	0.53%	0.52%

Therms Usage by Class																		
Low			Medium			High			Low			Medium			High			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	288,703	2,309,464	2,596,167	301,792	2,431,015	2,732,807	316,882	2,552,566	2,869,448	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	288,346	2,319,157	2,607,503	303,522	2,441,218	2,744,740	318,698	2,563,279	2,881,977	0.57%	0.42%	0.44%	0.57%	0.42%	0.44%	0.57%	0.42%	0.44%
2023	289,770	2,327,259	2,617,028	305,021	2,449,746	2,754,767	320,272	2,572,233	2,892,505	0.49%	0.35%	0.37%	0.49%	0.35%	0.37%	0.49%	0.35%	0.37%
2024	292,634	2,345,801	2,638,434	308,035	2,469,264	2,777,299	323,437	2,592,727	2,916,164	0.99%	0.80%	0.82%	0.99%	0.80%	0.82%	0.99%	0.80%	0.82%
2025	292,333	2,341,547	2,633,880	307,719	2,464,786	2,772,505	323,105	2,588,025	2,911,130	-0.10%	-0.18%	-0.17%	-0.10%	-0.18%	-0.17%	-0.10%	-0.18%	-0.17%
2026	293,690	2,349,144	2,642,834	309,147	2,472,783	2,781,930	324,605	2,596,422	2,921,027	0.46%	0.32%	0.34%	0.46%	0.32%	0.34%	0.46%	0.32%	0.34%
2027	294,946	2,355,991	2,650,936	310,649	2,479,990	2,790,459	325,992	2,603,990	2,929,982	0.43%	0.29%	0.31%	0.43%	0.29%	0.31%	0.43%	0.29%	0.31%
2028	297,445	2,371,829	2,669,274	313,100	2,496,662	2,809,762	328,755	2,621,495	2,950,250	0.85%	0.67%	0.69%	0.85%	0.67%	0.69%	0.85%	0.67%	0.69%
2029	297,355	2,369,115	2,666,471	313,006	2,493,806	2,806,811	328,656	2,618,496	2,947,152	-0.03%	-0.11%	-0.03%	-0.11%	-0.03%	-0.11%	-0.03%	-0.11%	-0.03%
2030	298,517	2,375,430	2,673,946	314,228	2,500,452	2,814,681	329,939	2,625,475	2,955,415	0.39%	0.27%	0.28%	0.39%	0.27%	0.28%	0.39%	0.27%	0.28%
2031	299,637	2,381,263	2,680,901	315,408	2,506,593	2,822,001	331,178	2,631,923	2,963,101	0.38%	0.25%	0.26%	0.38%	0.25%	0.26%	0.38%	0.25%	0.26%
2032	302,164	2,397,308	2,699,472	318,067	2,523,482	2,841,549	333,970	2,649,656	2,983,627	0.84%	0.67%	0.69%	0.84%	0.67%	0.69%	0.84%	0.67%	0.69%
2033	301,925	2,393,447	2,695,373	317,816	2,519,418	2,837,235	333,707	2,645,389	2,979,096	-0.08%	-0.16%	-0.15%	-0.08%	-0.16%	-0.15%	-0.08%	-0.16%	-0.15%
2034	302,884	2,398,260	2,701,144	318,825	2,524,484	2,843,309	334,766	2,650,708	2,985,474	0.32%	0.20%	0.21%	0.32%	0.20%	0.21%	0.32%	0.20%	0.21%
2035	303,991	2,404,034	2,708,025	319,991	2,530,562	2,850,553	335,990	2,657,090	2,993,080	0								



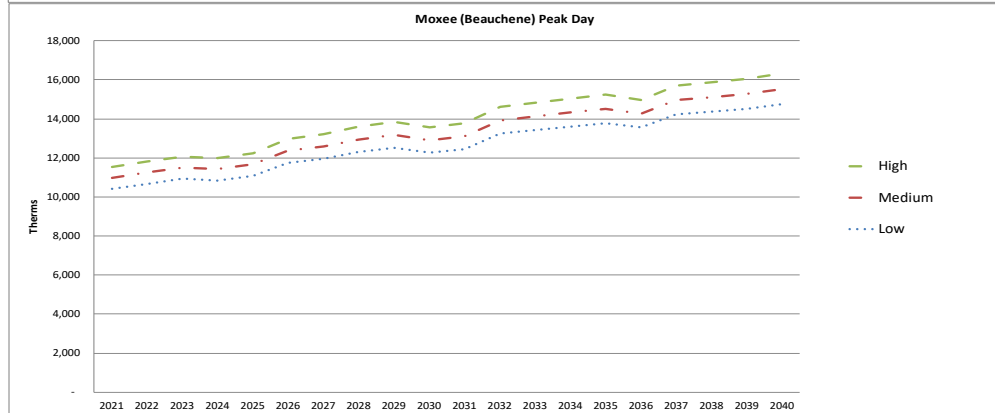
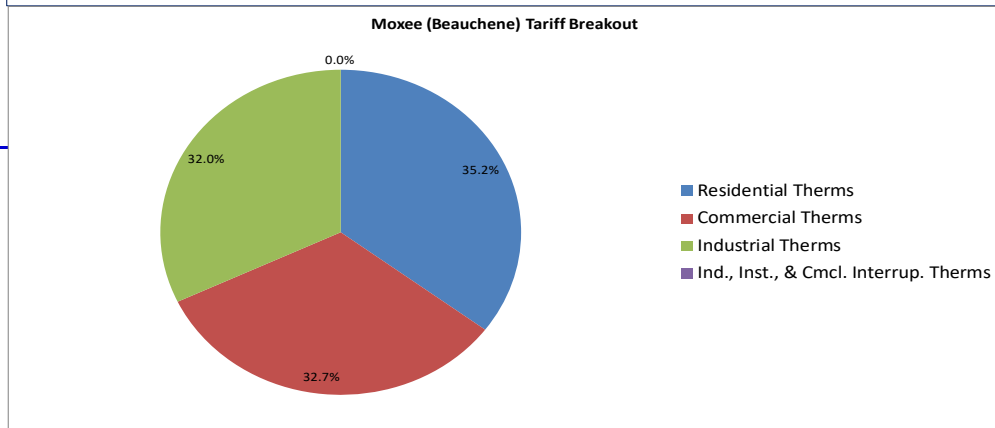
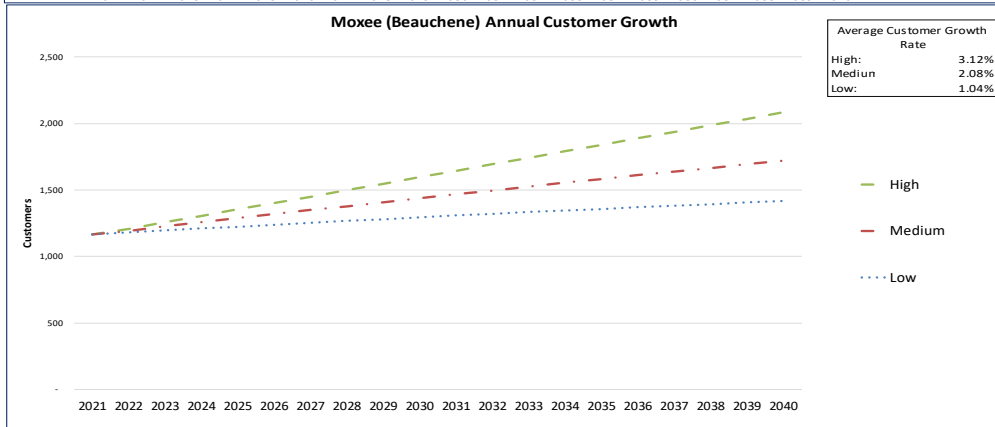
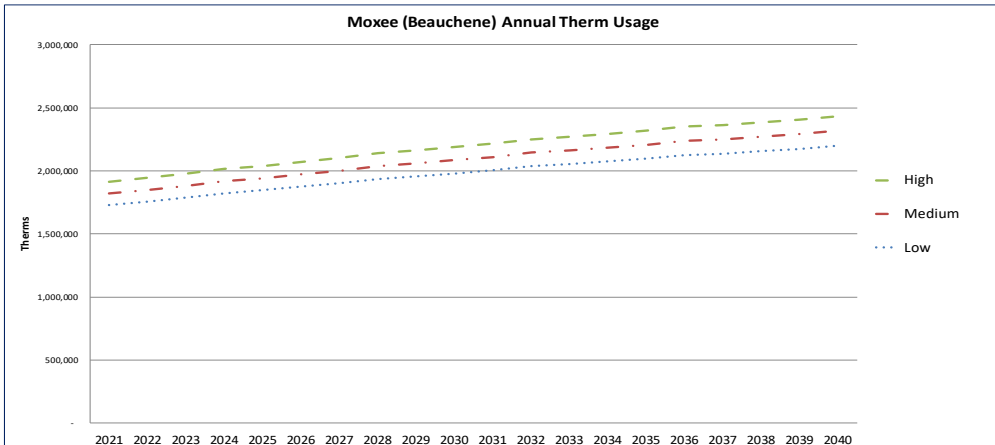
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Moxee (Beauchene)														
Annual Requirements (Therms)														
Low			Medium			High			Annual Change					
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	1,620,515	109,089	1,729,604	1,705,805	114,831	1,820,636	1,791,095	120,572	1,911,668	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,637,730	121,153	1,758,883	1,723,926	127,529	1,851,455	1,810,122	133,906	1,944,028	1.06%	11.06%	1.69%	1.06%	1.69%
2023	1,651,032	137,285	1,788,317	1,737,928	144,510	1,882,439	1,824,825	151,736	1,976,561	0.81%	13.32%	1.67%	0.81%	13.32%
2024	1,650,347	173,299	1,824,276	1,737,208	183,083	1,920,290	1,824,068	192,237	2,016,305	-0.04%	26.69%	2.01%	-0.04%	26.69%
2025	1,664,077	182,145	1,846,222	1,751,660	191,732	1,943,392	1,839,243	201,318	2,040,562	0.83%	4.72%	1.20%	0.83%	4.72%
2026	1,744,529	129,847	1,874,376	1,836,347	136,681	1,973,027	1,928,164	143,515	2,071,679	4.83%	-28.71%	1.52%	4.83%	-28.71%
2027	1,764,393	137,594	1,901,987	1,857,256	144,836	2,002,091	1,950,118	152,077	2,102,196	1.14%	5.97%	1.47%	1.14%	5.97%
2028	1,782,918	152,299	1,935,247	1,876,756	160,346	2,037,102	1,970,593	168,364	2,138,957	1.05%	10.71%	1.75%	1.05%	10.71%
2029	1,754,501	200,619	1,955,119	1,846,843	211,178	2,058,020	1,939,185	221,737	2,160,921	-1.59%	31.70%	1.03%	-1.59%	31.70%
2030	1,775,121	205,554	1,980,675	1,868,549	216,373	2,084,921	1,961,976	227,191	2,189,168	1.18%	2.46%	1.31%	1.18%	2.46%
2031	1,791,519	214,035	2,005,554	1,885,809	225,300	2,111,109	1,980,100	236,565	2,216,665	0.92%	4.13%	1.26%	0.92%	4.13%
2032	1,888,063	149,415	2,037,478	1,987,435	157,279	2,144,713	2,086,806	165,143	2,251,949	5.39%	-30.19%	1.59%	5.39%	-30.19%
2033	1,890,608	161,981	2,052,589	1,990,113	170,507	2,160,620	2,089,619	179,032	2,268,651	0.13%	8.41%	0.74%	0.13%	8.41%
2034	1,896,060	179,250	2,075,310	1,995,853	188,684	2,184,537	2,095,645	198,118	2,293,764	0.29%	10.66%	1.11%	0.29%	10.66%
2035	1,867,716	229,226	2,096,942	1,966,016	242,028	2,208,044	2,064,317	252,129	2,316,446	-1.49%	28.27%	1.08%	-1.49%	28.27%
2036	1,899,812	226,871	2,126,682	1,999,802	238,811	2,238,613	2,099,792	250,752	2,350,544	1.72%	-1.33%	1.38%	1.72%	-1.33%
2037	1,973,234	165,204	2,138,437	2,077,088	173,899	2,250,987	2,180,942	182,594	2,363,536	3.86%	-27.18%	0.55%	3.86%	-27.18%
2038	1,985,541	172,272	2,157,813	2,090,043	181,339	2,271,382	2,194,545	190,406	2,384,951	0.62%	4.28%	0.91%	0.62%	4.28%
2039	1,990,725	185,296	2,176,020	2,095,500	195,048	2,290,548	2,200,275	204,801	2,405,075	0.26%	7.56%	0.84%	0.26%	7.56%
2040	1,963,361	239,444	2,202,805	2,066,696	252,046	2,318,742	2,170,030	264,648	2,434,679	-1.37%	29.22%	1.23%	-1.37%	29.22%

Peak Day - BaseLoad														
Low			Medium			High			Annual Change					
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	299	10,130	10,429	315	10,663	10,977	330	11,196	11,526	0.00%	0.00%	0.00%	0.00%	0.00%
2022	332	10,345	10,677	349	10,889	11,239	367	11,434	11,801	11.06%	2.12%	2.38%	11.06%	2.12%
2023	376	10,546	10,922	396	11,101	11,497	416	11,656	12,072	13.32%	1.95%	2.30%	13.32%	1.95%
2024	477	10,372	10,848	502	10,917	11,419	527	11,463	11,990	26.69%	-1.65%	-0.68%	26.69%	-1.65%
2025	499	10,589	11,079	525	11,137	11,663	552	11,694	12,246	4.72%	2.01%	2.13%	4.72%	2.01%
2026	356	11,385	11,741	374	11,985	12,359	393	12,584	12,977	-28.71%	-1.61%	5.97%	-28.71%	-1.61%
2027	377	11,592	11,969	397	12,202	12,599	417	12,812	13,229	5.97%	1.81%	1.94%	5.97%	1.81%
2028	417	11,880	12,298	439	12,506	12,945	461	13,131	13,592	10.71%	2.49%	2.75%	10.71%	2.49%
2029	550	11,964	12,513	579	12,593	13,172	607	13,223	13,831	31.70%	0.70%	1.75%	31.70%	0.70%
2030	563	11,695	12,258	593	12,311	12,903	622	12,926	13,549	2.46%	-2.25%	-2.04%	2.46%	-2.25%
2031	586	11,868	12,454	617	12,492	13,109	648	13,117	13,765	4.13%	1.47%	1.60%	4.13%	1.47%
2032	409	12,822	13,231	431	13,497	13,928	452	14,172	14,624	-30.19%	8.04%	6.24%	-30.19%	8.04%
2033	444	12,976	13,420	467	13,659	14,127	490	14,342	14,833	8.41%	1.20%	1.43%	8.41%	1.20%
2034	491	13,110	13,602	517	13,800	14,317	543	14,490	15,033	10.66%	1.03%	1.35%	10.66%	1.03%
2035	630	13,145	13,775	663	13,837	14,500	696	14,528	15,222	28.27%	0.26%	1.27%	28.27%	0.26%
2036	622	12,930	13,551	654	13,610	14,264	687	14,291	14,978	-1.33%	-1.64%	-1.62%	-1.33%	-1.64%
2037	453	13,758	14,210	476	14,482	14,958	500	15,206	15,706	-27.18%	6.40%	4.86%	-27.18%	6.40%
2038	472	13,888	14,360	497	14,619	15,116	522	15,350	15,872	4.28%	0.95%	1.06%	4.28%	0.95%
2039	508	13,996	14,504	534	14,733	15,267	561	15,469	16,030	7.56%	0.78%	1.00%	7.56%	0.78%
2040	656	14,101	14,757	691	14,843	15,534	725	15,586	16,311	29.22%	0.75%	1.75%	29.22%	0.75%

Therms Usage by Class														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	612,043	1,117,561	1,729,604	644,256	1,176,380	1,820,636	676,469	1,235,198	1,911,668	0.00%	0.00%	0.00%	0.00%	0.00%
2022	623,141	1,135,742	1,758,883	655,937	1,195,518	1,851,455	688,734	1,255,294	1,944,028	1.81%	1.63%	1.69%	1.81%	1.63%
2023	634,303	1,150,014	1,788,317	667,687	1,214,751	1,882,439	701,072	1,275,489	1,976,561	1.79%	1.61%	1.67%	1.79%	1.61%
2024	648,520	1,175,756	1,824,276	682,652	1,237,638	1,920,290	716,785	1,299,520	2,016,305	2.24%	1.88%	2.01%	2.24%	1.88%
2025	656,383	1,189,839	1,846,222	690,930	1,252,462	1,943,392	725,476	1,315,086	2,040,562	1.21%	1.20%	1.20%	1.21%	1.20%
2026	667,068	1,207,308	1,874,376	702,177	1,270,851	1,973,027	737,385	1,334,393	2,071,679	1.69%	1.47%	1.63%	1.69%	1.47%
2027	677,541	1,224,445	1,901,987	713,201	1,288,890	2,002,091	748,861	1,353,334	2,102,196	1.57%	1.42%	1.47%	1.57%	1.42%
2028	690,624	1,244,623	1,935,247	726,973	1,310,129	2,037,102	763,321	1,375,635	2,138,957	1.93%	1.65%	1.75%	1.93%	1.65%
2029	697,708	1,257,411	1,955,119	734,429	1,323,591	2,058,020	771,151	1,389,771	2,160,921	1.03%	1.03%	1.03%	1.03%	1.03%
2030	707,446	1,273,229	1,980,675	744,680	1,340,241	2,084,921	781,914	1,407,253	2,189,168	1.40%	1.26%	1.31%	1.40%	1.26%
2031	716,915	1,288,639	2,005,554	754,647	1,356,462	2,111,109	792,380	1,424,285	2,216,665	1.34%	1.21%	1.26%	1.34%	1.21%
2032	729,486	1,307,992	2,037,478	767,880	1,376,833	2,144,713	806,274	1,445,675	2,251,949	1.75%	1.50%	1.59%	1.75%	1.50%
2033	734,786	1,317,803	2,052,589	773,459	1,387,161	2,160,620	812,132	1,456,519	2,268,651	0.73%	0.75%	0.74%	0.73%	0.75%
2034	743,394	1,331,916	2,075,310	782,520	1,402,017	2,184,537	821,646	1,472,118	2,293,764	1.17%	1.07%	1.11%	1.17%	1.07%
2035	751,868	1,345,774	2,097,642	791,440	1,416,604	2,208,044	831,012	1,487,434	2,316,446	1.14%	1.04%	1.08%	1.14%	1.04%
2036	763,374	1,363,308	2,126,682	803,552	1,435,061	2,238,613	843,729	1,506,814	2,350,544	1.53%	1.30%	1.38%	1.53%	1.30%
2037	767,433	1,371,005	2,138,437	807,824	1,443,163	2,250,987	848,215	1,515,321	2,363,536	0.53%	0.56%	0.53%	0.56%	0.53%
2038	774,782	1,383,031	2,157,813	815,560	1,455,822	2,271,382	856,338	1,528,613	2,384,951	0.96%	0.88%	0.91%	0.96%	0.88%
2039	781,682	1,394,338	2,176,020	822,823	1,467,724	2,290,548	863,965	1,541,111	2,405,075	0.89%	0.82%	0.84%	0.89%	0.82%
2040	792,222	1,410,583	2,202,805	833,918	1,484,824	2,318,742	875,614	1,559,065	2,434,679	1.35%	1.17%	1.23%	1.35%	1.17%

Customer Count Forecast														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,089	76	1,165	1,089	76	1,165	1,089	76	1,165	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,103	77	1,180	1,117	77	1,195	1,131	78	1,209	1.29%	1.21%	1.28%	1.29%	1.21%
2023	1,118	77	1,195	1,147	79	1,226	1,177	80	1,257	1.35%	0.86%	1.31%	1.35%	0.86%
2024	1,133	78	1,210	1,177	80	1,257	1,223	83	1,306	1.31%	0.90%	1.28%	1.31%	0.90%
2025	1,147	79	1,225	1,207	82	1,289	85	1,354	1.26%	1.09%	1.25%	1.26%	1.09%	
2026	1,161	79	1,240	1,236	83	1,319	1,315	87	1,402	1.20%	0.76%	1.17%	1.20%	0.76%
2027	1,174	80	1,254	1,264	85	1,349	1,360	90	1,451	1.16%	1.10%	1.15%	1.16%	1.10%
2028	1,187	81	1,268	1,293	86	1,379	1,407	92	1,499	1.13%	0.78%	1.11%	1.13%	0.78%
2029														



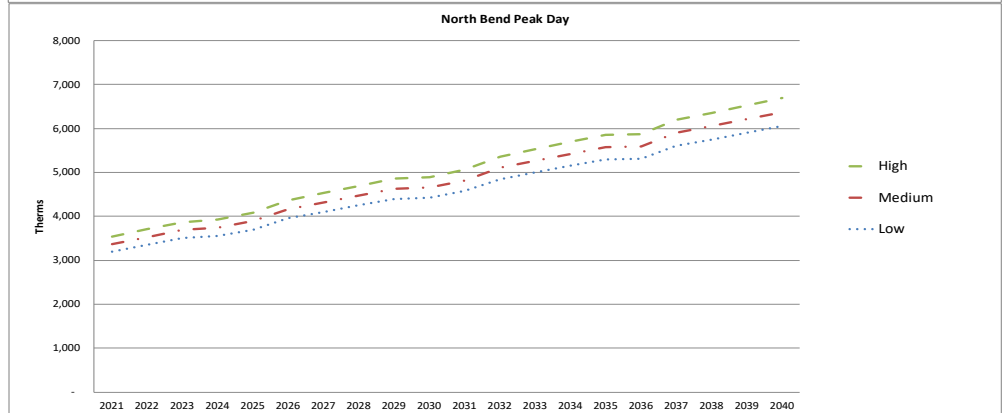
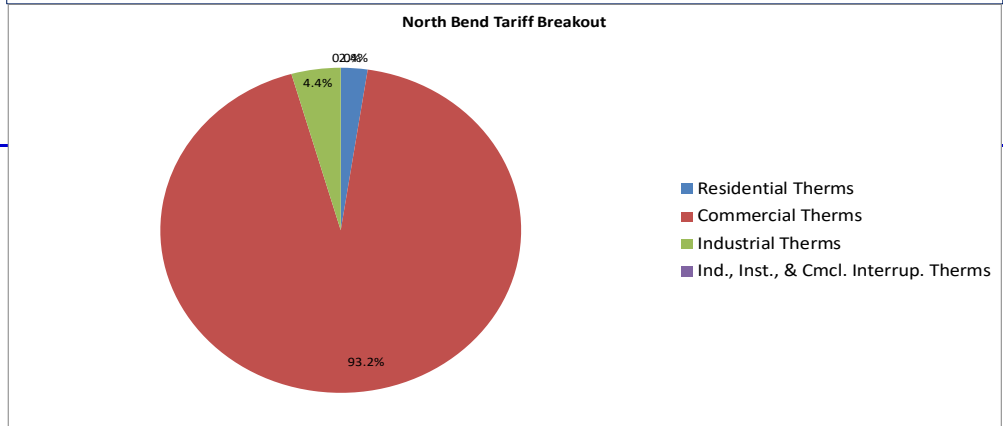
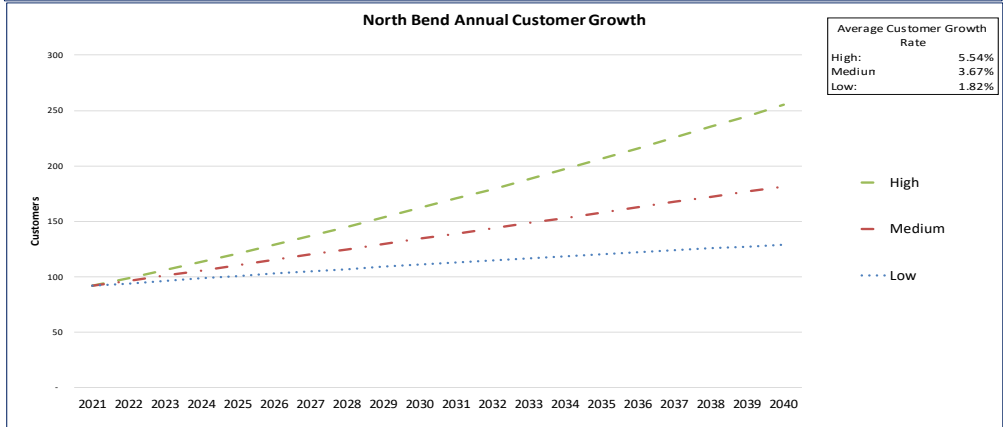
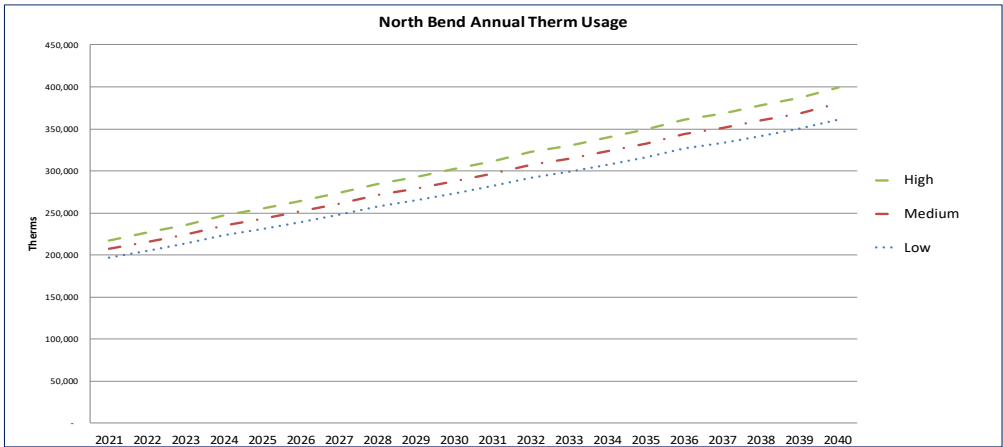
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

North Bend																		
Annual Requirements (Therms)																		
	Low			Medium			High			Annual Change								
	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	185,111	11,671	196,782	194,854	12,285	207,139	217,496	-	217,496	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	193,737	11,431	205,168	203,934	12,032	215,966	226,764	-	226,764	4.66%	-2.06%	4.26%	4.66%	-2.06%	4.26%	4.26%	0.00%	4.26%
2023	202,255	11,422	213,677	212,900	12,023	224,923	236,169	-	236,169	4.40%	-0.08%	4.15%	4.40%	-0.08%	4.15%	4.15%	0.00%	4.15%
2024	211,802	11,911	223,712	222,949	12,538	235,487	247,261	-	247,261	4.72%	4.28%	4.70%	4.72%	4.28%	4.70%	4.70%	0.00%	4.70%
2025	219,018	11,841	230,860	230,546	12,465	243,010	255,161	-	255,161	3.41%	-0.58%	3.19%	3.41%	-0.58%	3.19%	3.19%	0.00%	3.19%
2026	227,428	11,879	239,307	239,398	12,505	251,903	264,498	-	264,498	3.84%	0.32%	3.65%	3.84%	0.32%	3.65%	3.65%	0.00%	3.65%
2027	236,123	11,655	247,778	248,550	12,268	260,819	273,859	-	273,859	3.82%	-1.89%	3.54%	3.82%	-1.89%	3.54%	3.54%	0.00%	3.54%
2028	246,269	11,445	257,714	259,230	12,048	271,278	284,842	-	284,842	4.30%	-1.80%	4.01%	4.30%	-1.80%	4.01%	4.01%	0.00%	4.01%
2029	253,321	11,671	264,992	266,654	12,285	278,939	292,886	-	292,886	2.86%	1.97%	2.82%	2.86%	1.97%	2.82%	2.82%	0.00%	2.82%
2030	261,653	11,896	273,550	275,425	12,522	287,947	302,344	-	302,344	3.29%	1.93%	3.23%	3.29%	1.93%	3.23%	3.23%	0.00%	3.23%
2031	270,164	11,888	282,051	284,383	12,513	296,896	311,741	-	311,741	3.25%	-0.07%	3.11%	3.25%	-0.07%	3.11%	3.11%	0.00%	3.11%
2032	280,613	11,678	292,291	295,382	12,293	307,675	323,059	-	323,059	3.87%	-1.76%	3.63%	3.87%	-1.76%	3.63%	3.63%	0.00%	3.63%
2033	287,469	11,438	298,907	302,599	12,041	314,639	330,371	-	330,371	2.44%	-2.05%	2.26%	2.44%	-2.05%	2.26%	2.26%	0.00%	2.26%
2034	296,091	11,431	307,521	311,674	12,032	323,707	339,892	-	339,892	3.00%	-0.07%	2.88%	3.00%	-0.07%	2.88%	2.88%	0.00%	2.88%
2035	304,633	11,655	316,287	320,666	12,268	332,934	349,581	-	349,581	2.88%	1.96%	2.85%	2.88%	1.96%	2.85%	2.85%	0.00%	2.85%
2036	315,104	11,773	326,876	331,688	12,392	344,080	361,184	-	361,184	3.44%	1.01%	3.35%	3.44%	1.01%	3.35%	3.35%	0.00%	3.35%
2037	321,563	11,807	333,370	338,487	12,429	350,916	368,462	-	368,462	2.05%	0.30%	1.99%	2.05%	0.30%	1.99%	1.99%	0.00%	1.99%
2038	330,201	11,663	341,865	347,580	12,277	359,858	377,850	-	377,850	2.69%	-1.22%	2.55%	2.69%	-1.22%	2.55%	2.55%	0.00%	2.55%
2039	338,813	11,422	350,235	356,645	12,023	368,668	387,101	-	387,101	2.61%	-2.07%	2.45%	2.61%	-2.07%	2.45%	2.45%	0.00%	2.45%
2040	349,601	11,678	361,279	368,001	12,293	380,294	399,309	-	399,309	3.18%	2.24%	3.15%	3.18%	2.24%	3.15%	3.15%	0.00%	3.15%

Peak Day - BaseLoad																		
	Low			Medium			High			Annual Change								
	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	32	3,174	3,206	34	3,341	3,375	-	3,543	3,543	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	31	3,325	3,356	33	3,500	3,533	-	3,709	3,709	-2.06%	4.75%	4.68%	-2.06%	4.75%	4.68%	0.00%	4.68%	4.68%
2023	31	3,474	3,506	33	3,657	3,690	-	3,875	3,875	-0.08%	4.50%	4.46%	-0.08%	4.50%	4.46%	0.00%	4.46%	4.46%
2024	33	3,521	3,553	34	3,706	3,740	-	3,927	3,927	4.28%	1.33%	1.36%	4.28%	1.33%	1.36%	0.00%	1.36%	1.36%
2025	32	3,667	3,700	34	3,861	3,895	-	4,089	4,089	4.58%	4.17%	4.13%	4.58%	4.17%	4.13%	0.00%	4.13%	4.13%
2026	33	3,921	3,953	34	4,127	4,161	-	4,369	4,369	0.32%	6.90%	6.84%	0.32%	6.90%	6.84%	0.00%	6.84%	6.84%
2027	32	4,072	4,104	34	4,286	4,320	-	4,536	4,536	-1.89%	3.86%	3.81%	-1.89%	3.86%	3.81%	0.00%	3.81%	3.81%
2028	31	4,219	4,251	33	4,442	4,475	-	4,698	4,698	-1.80%	3.63%	3.58%	-1.80%	3.63%	3.58%	0.00%	3.58%	3.58%
2029	32	4,370	4,402	34	4,600	4,633	-	4,865	4,865	1.97%	3.56%	3.55%	1.97%	3.56%	3.55%	0.00%	3.55%	3.55%
2030	33	4,400	4,432	34	4,631	4,664	-	4,899	4,899	1.93%	0.69%	0.70%	1.93%	0.69%	0.70%	0.00%	0.70%	0.70%
2031	33	4,547	4,580	34	4,787	4,821	-	5,062	5,062	-0.07%	3.36%	3.33%	-0.07%	3.36%	3.33%	0.00%	3.33%	3.33%
2032	32	4,819	4,851	34	5,073	5,106	-	5,362	5,362	-1.76%	5.97%	5.92%	-1.76%	5.97%	5.92%	0.00%	5.92%	5.92%
2033	31	4,971	5,002	33	5,232	5,265	-	5,529	5,529	-2.05%	3.15%	3.12%	-2.05%	3.15%	3.12%	0.00%	3.12%	3.12%
2034	31	5,122	5,153	33	5,392	5,425	-	5,696	5,696	-0.07%	3.05%	3.03%	-0.07%	3.05%	3.03%	0.00%	3.03%	3.03%
2035	32	5,273	5,305	34	5,551	5,584	-	5,863	5,863	1.96%	2.95%	2.94%	1.96%	2.95%	2.94%	0.00%	2.94%	2.94%
2036	32	5,278	5,310	34	5,556	5,590	-	5,869	5,869	1.01%	0.09%	0.10%	1.01%	0.09%	0.10%	0.00%	0.10%	0.10%
2037	32	5,571	5,604	34	5,864	5,898	-	6,193	6,193	0.30%	5.56%	5.52%	0.30%	5.56%	5.52%	0.00%	5.52%	5.52%
2038	31	5,723	5,755	34	6,025	6,058	-	6,361	6,361	-1.22%	2.73%	2.71%	-1.22%	2.73%	2.71%	0.00%	2.71%	2.71%
2039	32	5,876	5,907	33	6,185	6,218	-	6,529	6,529	-2.07%	2.67%	2.64%	-2.07%	2.67%	2.64%	0.00%	2.64%	2.64%
2040	32	6,022	6,054	34	6,339	6,373	-	6,692	6,692	2.24%	2.49%	2.49%	2.24%	2.49%	2.49%	0.00%	2.49%	2.49%

Therms Usage by Class																		
	Low			Medium			High			Annual Change								
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	4,985	191,798	196,782	5,247	201,892	207,139	5,509	211,987	217,496	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,167	200,006	205,168	5,439	210,527	215,966	5,711	221,053	226,764	3.67%	4.28%	4.26%	3.67%	4.28%	4.26%	3.67%	4.28%	4.26%
2023	5,347	208,330	213,677	5,628	219,295	224,923	5,910	230,259	236,169	3.47%	4.16%	4.15%	3.47%	4.16%	4.15%	3.47%	4.16%	4.15%
2024	5,570	218,143	223,712	5,863	229,624	235,487	6,156	241,105	247,261	4.17%	4.71%	4.70%	4.17%	4.71%	4.70%	4.17%	4.71%	4.70%
2025	5,716	225,143	230,860	6,017	236,993	243,010	6,318	248,843	255,161	2.63%	3.21%	3.19%	2.63%	3.21%	3.19%	2.63%	3.21%	3.19%
2026	5,903	233,405	239,307	6,214	245,689	251,903	6,524	257,974	264,498	3.16%	3.67%	3.66%	3.16%	3.67%	3.66%	3.16%	3.67%	3.66%
2027	6,093	241,685	247,778	6,413	254,405	260,819	6,734	267,125	273,859	3.22%	3.55%	3.54%	3.22%	3.55%	3.54%	3.22%	3.55%	3.54%
2028	6,323	251,391	257,714	6,656	264,622	271,278	6,989	277,853	284,842	3.79%	4.02%	4.01%	3.79%	4.02%	4.01%	3.79%	4.02%	4.01%
2029	6,483	258,509	264,992	6,824	272,115	278,939	7,166	285,721	292,886	2.53%	2.83%	2.82%	2.53%	2.83%	2.82%	2.53%	2.83%	2.82%
2030	6,679	266,871	273,550	7,030	280,917	287,947	7,382	294,962	302,344	3.02%	3.23%	3.23%	3.02%	3.23%	3.23%	3.02%	3.23%	3.23%
2031	6,873	275,178	282,051	7,235	289,661	296,896	7,597	304,144	311,741	2.91%	3.11%	3.11%	2.91%	3.11%	3.11%	2.91%	3.11%	3.11%
2032	7,114	285,177	292,291	7,489	300,186	307,675	7,863	315,196	323,059	3.51%	3.63%	3.63%	3.51%	3.63%	3.63%	3.51%	3.63%	3.63%
2033	7,262	291,646	298,907	7,644	306,996	314,639	8,026	322,345	330,371	2.07%	2.27%	2.26%	2.07%	2.27%	2.26%	2.07%	2.27%	2.26%
2034	7,463	300,058	307,521	7,856	315,851	323,707	8,248	331,643	339,892	2.77%	2.88%	2.77%	2.88%	2.77%	2.88%	2.77%	2.88%	2.88%
2035	7,669	308,618	316,287	8,073	324,862	332,934	8,476	341,105	349,581	2.76%	2.85%	2.85%	2.76%	2.85%	2.85%	2.76%	2.85%	2.85%
2036	7,920	318,956	326,876	8,337	335,743	344,080	8,754	352,530	361,184	3.28%	3.35%	3.35%	3.28%	3.35%	3.35%	3.28%	3.35%	3.35%
2037	8,067	325,304	333,370	8,491	342,425	350,916	8,916	359,546	368,462	1.85%	1.99%	1.99%	1.85%	1.99%	1.99%	1.85%	1.99%	1.99%
2038	8,269	333,596	341,865	8,704	351,153	359,858	9,140	368,711	377,850	2.51%	2.55%	2.55%	2.51%	2.55%	2.55%	2.51%	2.55%	2.55%
2039	8,471	341,764	350,235	8,917	359,751	368,668	9,362	377,739	387,101	2.44%	2.45%	2.45%	2.44%	2.45%	2.45%	2.44%	2.45%	2.45%
2040	8,744	352,535	361,279	9,204	371,090	380,294	9,665	389,644	399,309	3.23%	3.15%	3.15%	3.23%	3.15%	3.15%	3.23%	3.15%	3.15%

Customer Count Forecast																
	Low			Medium			High			Annual Change						
	Res	Com/Ind	Total	Res	Com/Ind											

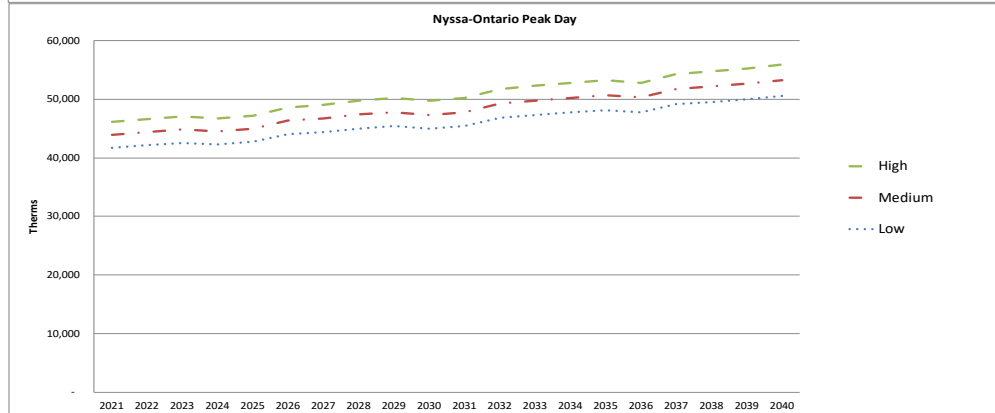
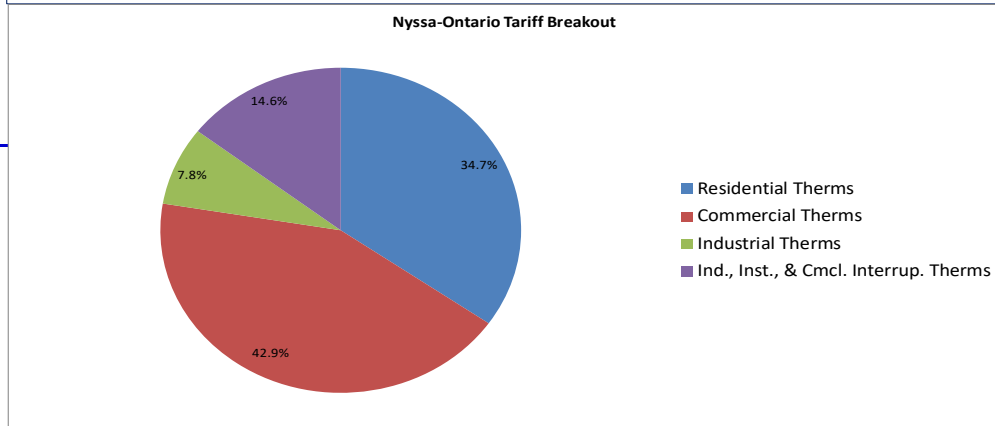
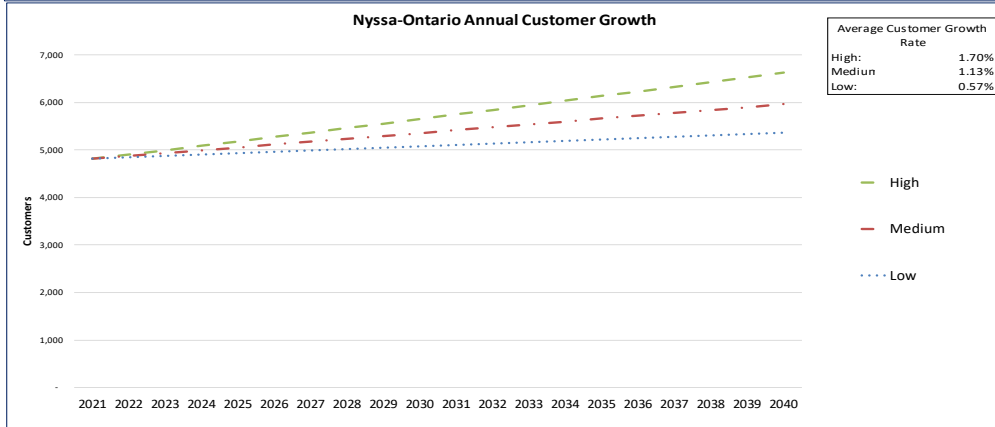
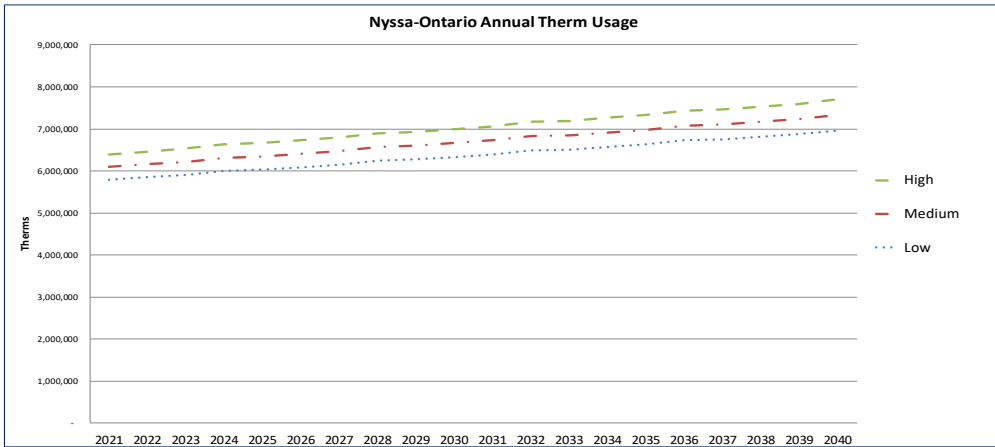


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Nyssa-Ontario																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	4,452,822	1,335,975	5,788,798	4,687,181	1,406,290	6,093,471	4,921,541	1,476,604	6,398,145	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	4,502,888	1,345,302	5,848,190	4,739,882	1,416,108	6,155,990	4,976,877	1,486,913	6,463,789	1.12%	0.70%	1.03%	1.12%	0.70%	1.03%	1.12%	0.70%
2023	4,548,496	1,359,867	5,908,364	4,787,891	1,431,439	6,219,330	5,027,286	1,503,011	6,530,297	1.01%	1.08%	1.03%	1.01%	1.08%	1.01%	1.08%	1.03%
2024	4,625,096	1,373,940	5,999,036	4,868,522	1,446,253	6,314,775	5,111,948	1,518,566	6,630,514	1.68%	1.03%	1.53%	1.68%	1.03%	1.53%	1.68%	1.03%
2025	4,647,539	1,381,846	6,029,385	4,892,147	1,454,574	6,346,721	5,136,754	1,527,303	6,664,057	0.49%	0.58%	0.51%	0.49%	0.58%	0.51%	0.49%	0.58%
2026	4,700,551	1,389,948	6,090,500	4,947,949	1,462,156	6,410,105	5,195,346	1,535,264	6,730,610	1.14%	0.52%	1.00%	1.14%	0.52%	1.00%	1.14%	0.52%
2027	4,752,527	1,397,285	6,149,812	5,002,660	1,470,826	6,473,486	5,252,739	1,544,367	6,797,160	1.11%	0.59%	0.99%	1.11%	0.59%	0.99%	1.11%	0.59%
2028	4,836,260	1,402,897	6,239,157	5,090,800	1,476,734	6,567,534	5,345,341	1,550,570	6,895,911	1.76%	0.40%	1.45%	1.76%	0.40%	1.45%	1.76%	0.40%
2029	4,850,871	1,419,650	6,270,520	5,106,179	1,494,368	6,600,548	5,361,488	1,569,087	6,930,575	0.30%	1.19%	0.50%	0.30%	1.19%	0.50%	0.30%	1.19%
2030	4,894,339	1,436,397	6,330,736	5,151,936	1,511,996	6,663,932	5,409,533	1,587,596	6,997,129	0.90%	1.18%	0.96%	0.90%	1.18%	0.96%	0.90%	1.18%
2031	4,949,095	1,441,306	6,390,401	5,209,574	1,517,164	6,726,738	5,470,052	1,593,022	7,063,074	1.12%	0.34%	0.94%	1.12%	0.34%	0.94%	1.12%	0.34%
2032	5,042,137	1,440,557	6,482,695	5,307,513	1,516,376	6,823,889	5,572,889	1,592,195	7,165,084	1.88%	-0.05%	1.44%	1.88%	-0.05%	1.44%	1.88%	-0.05%
2033	5,060,470	1,449,795	6,510,265	5,326,810	1,526,100	6,852,910	5,593,150	1,602,405	7,195,555	0.36%	0.64%	0.43%	0.36%	0.64%	0.43%	0.36%	0.64%
2034	5,105,362	1,465,073	6,570,435	5,374,065	1,542,183	6,916,248	5,642,768	1,619,292	7,262,060	0.89%	1.05%	0.92%	0.89%	1.05%	0.92%	0.89%	1.05%
2035	5,149,116	1,482,419	6,631,535	5,420,123	1,560,441	6,980,563	5,691,129	1,638,463	7,329,591	0.86%	1.18%	0.93%	0.86%	1.18%	0.93%	0.86%	1.18%
2036	5,237,956	1,487,096	6,725,052	5,513,638	1,565,364	7,079,002	5,789,320	1,643,632	7,433,953	1.73%	0.32%	1.41%	1.73%	0.32%	1.41%	1.73%	0.32%
2037	5,257,455	1,494,867	6,752,322	5,534,164	1,573,544	7,107,707	5,810,872	1,652,221	7,463,093	0.37%	0.52%	0.41%	0.37%	0.52%	0.41%	0.37%	0.52%
2038	5,310,071	1,502,466	6,812,537	5,589,549	1,581,543	7,171,092	5,869,026	1,660,620	7,529,646	1.00%	0.51%	0.89%	1.00%	0.51%	0.89%	1.00%	0.51%
2039	5,359,971	1,511,816	6,871,787	5,642,075	1,591,386	7,233,460	5,924,178	1,670,955	7,595,133	0.94%	0.62%	0.87%	0.94%	0.62%	0.87%	0.94%	0.62%
2040	5,440,935	1,525,526	6,966,461	5,727,300	1,605,817	7,333,116	6,013,665	1,686,108	7,699,772	1.51%	0.91%	1.38%	1.51%	0.91%	1.38%	1.51%	0.91%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	3,660	38,058	41,718	3,853	40,061	43,914	4,045	42,064	46,109	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,686	38,465	42,151	3,880	40,490	44,369	4,074	42,514	46,588	0.70%	1.07%	1.04%	0.70%	1.07%	1.04%	0.70%	1.07%
2023	3,726	38,857	42,583	3,922	40,902	44,824	4,118	42,948	47,065	1.08%	1.02%	1.03%	1.08%	1.02%	1.03%	1.08%	1.02%
2024	3,764	39,554	42,319	3,962	40,583	44,546	4,160	42,613	46,773	1.03%	-0.78%	-0.62%	1.03%	-0.78%	-0.62%	1.03%	-0.78%
2025	3,785	39,555	42,711	3,985	41,006	44,991	4,184	43,056	47,240	0.58%	1.04%	1.00%	0.58%	1.04%	1.00%	0.58%	1.04%
2026	3,806	40,201	44,006	4,006	42,317	46,322	4,206	44,432	48,639	0.52%	3.20%	2.96%	0.52%	3.20%	2.96%	0.52%	3.20%
2027	3,828	40,609	44,437	4,030	42,747	46,776	4,231	44,884	49,115	0.59%	1.02%	0.98%	0.59%	1.02%	0.98%	0.59%	1.02%
2028	3,844	41,158	45,002	4,046	43,324	47,370	4,248	45,490	49,739	0.40%	1.35%	1.27%	0.40%	1.35%	1.27%	0.40%	1.35%
2029	3,889	41,543	45,433	4,094	43,730	47,824	4,299	45,916	50,215	1.19%	0.94%	0.96%	1.19%	0.94%	0.96%	1.19%	0.94%
2030	3,935	41,054	44,989	4,142	43,215	47,357	4,350	45,375	49,725	-1.18%	-1.18%	-0.98%	-1.18%	-1.18%	-0.98%	-1.18%	-0.98%
2031	3,949	41,461	45,409	4,157	43,643	47,799	4,364	45,825	50,189	0.34%	0.99%	0.93%	0.34%	0.99%	0.93%	0.34%	0.99%
2032	3,947	42,912	46,859	4,154	45,171	49,325	4,362	47,430	51,792	-0.05%	3.50%	3.19%	-0.05%	3.50%	3.19%	-0.05%	3.50%
2033	3,972	43,317	47,289	4,181	45,597	49,778	4,390	47,877	52,267	0.64%	0.94%	0.92%	0.64%	0.94%	0.92%	0.64%	0.94%
2034	4,014	43,705	47,719	4,225	46,005	50,230	4,436	48,305	52,742	1.05%	0.89%	0.91%	1.05%	0.89%	0.91%	1.05%	0.89%
2035	4,061	44,086	48,148	4,275	46,407	50,682	4,489	48,727	53,216	1.18%	0.87%	1.18%	1.18%	0.87%	1.18%	1.18%	0.87%
2036	4,074	43,721	47,795	4,289	46,022	50,311	4,503	48,323	52,826	0.32%	-0.83%	-0.73%	0.32%	-0.83%	-0.73%	0.32%	-0.83%
2037	4,096	45,052	49,147	4,311	47,423	51,734	4,527	49,794	54,321	0.52%	3.04%	2.83%	0.52%	3.04%	2.83%	0.52%	3.04%
2038	4,116	45,460	49,576	4,333	47,852	52,185	4,550	50,245	54,794	0.51%	0.90%	0.87%	0.51%	0.90%	0.87%	0.51%	0.90%
2039	4,142	45,862	50,004	4,360	48,275	52,635	4,578	50,689	55,267	0.62%	0.88%	0.86%	0.62%	0.88%	0.86%	0.62%	0.88%
2040	4,180	46,398	50,578	4,399	48,840	53,240	4,619	51,282	55,902	0.91%	1.17%	1.15%	0.91%	1.17%	1.15%	0.91%	1.17%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	2,020,761	3,768,036	5,788,798	2,127,117	3,966,354	6,093,471	2,233,473	4,164,672	6,398,145	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,044,500	3,803,690	5,848,190	2,152,106	4,003,884	6,155,990	2,259,711	4,204,079	6,463,789	1.17%	0.95%	1.03%	1.17%	0.95%	1.03%	1.17%	0.95%
2023	2,068,516	3,839,847	5,908,364	2,177,386	4,041,945	6,219,330	2,286,255	4,240,042	6,530,297	1.17%	0.95%	1.03%	1.17%	0.95%	1.03%	1.17%	0.95%
2024	2,104,044	3,894,993	5,999,036	2,214,783	4,099,992	6,314,775	2,325,522	4,304,992	6,630,514	1.72%	1.44%	1.53%	1.72%	1.44%	1.53%	1.72%	1.44%
2025	2,117,006	3,912,379	6,029,385	2,228,428	4,118,293	6,346,721	2,339,849	4,324,208	6,664,057	0.62%	0.45%	0.62%	0.62%	0.45%	0.62%	0.62%	0.45%
2026	2,141,039	3,948,570	6,089,598	2,253,715	4,156,390	6,410,105	2,366,401	4,364,209	6,730,610	1.13%	0.93%	1.13%	1.13%	0.93%	1.13%	1.13%	0.93%
2027	2,165,052	3,984,760	6,149,812	2,279,002	4,194,484	6,473,486	2,392,952	4,404,208	6,797,160	1.12%	0.92%	0.99%	1.12%	0.92%	0.99%	1.12%	0.92%
2028	2,200,198	4,038,599	6,239,157	2,315,998	4,251,536	6,567,534	2,431,798	4,464,113	6,895,911	1.62%	1.36%	1.45%	1.62%	1.36%	1.45%	1.62%	1.36%
2029	2,213,252	4,057,269	6,270,520	2,329,739	4,270,809	6,600,548	2,446,226	4,484,350	6,930,575	0.59%	0.46%	0.50%	0.59%	0.46%	0.50%	0.59%	0.46%
2030	2,237,275	4,093,461	6,330,736	2,355,026	4,308,906	6,663,932	2,472,777	4,524,352	6,997,129	1.09%	0.89%	0.96%	1.09%	0.89%	0.96%	1.09%	0.89%
2031	2,261,298	4,129,103	6,390,401	2,380,313	4,346,424	6,726,738	2,499,329	4,563,745	7,063,074	1.07%	0.87%	0.94%	1.07%	0.87%	0.94%	1.07%	0.87%
2032	2,297,560	4,185,135	6,482,695	2,418,484	4,405,405	6,823,889	2,539,408	4,625,675	7,165,084	1.60%	1.36%	1.44%	1.60%	1.36%	1.44%	1.60%	1.36%
2033	2,309,184	4,201,081	6,510,265	2,430,720	4,422,190	6,852,910	2,552,255	4,643,300	7,195,555	0.51%	0.38%	0.43%	0.51%	0.38%	0.43%	0.51%	0.38%
2034	2,333,200	4,237,235	6,570,435	2,456,000	4,460,248	6,916,248	2,578,800	4,683,260	7,262,060	1.04%	0.86%	0.92%	1.04%	0.86%	0.92%	1.04%	0.86%
2035	2,357,543	4,273,992	6,631,535	2,481,624	4,498,939	6,980,563	2,605,706	4,723,886	7,329,591	1.04%	0.87%	0.93%	1.04%	0.87%	0.93%	1.04%	0.87%
2036	2,394,315	4,330,737	6,725,052	2,520,331	4,558,671	7,079,002	2,646,348	4,786,605	7,433,953	1.56%	1.33%	1.41%	1.56%	1.33%	1.41%	1.56%	1.33%
2037	2,405,749	4,346,573	6,752,322	2,532,367	4,575,340	7,107,707											

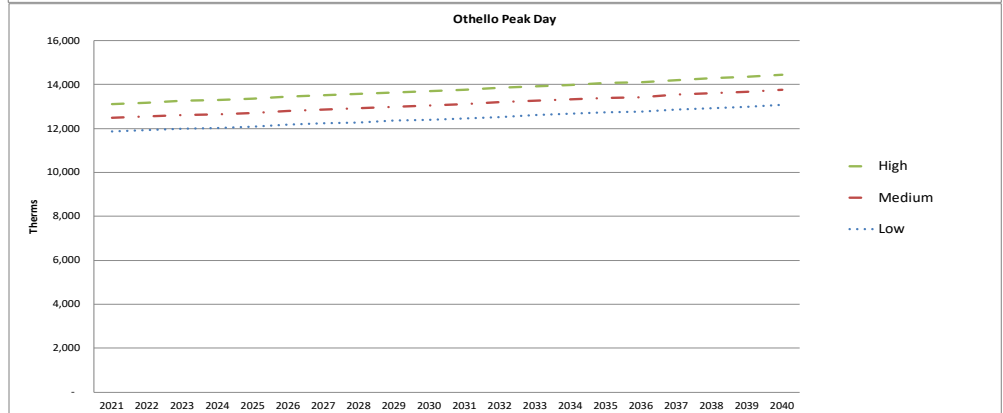
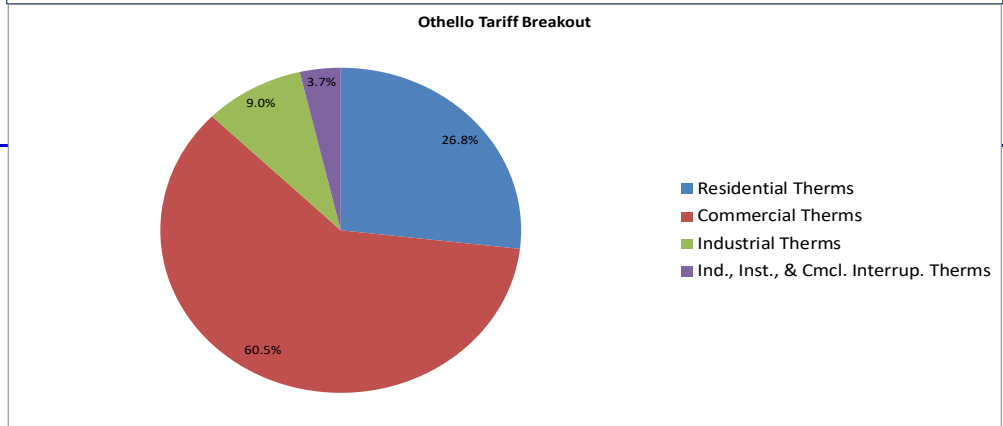
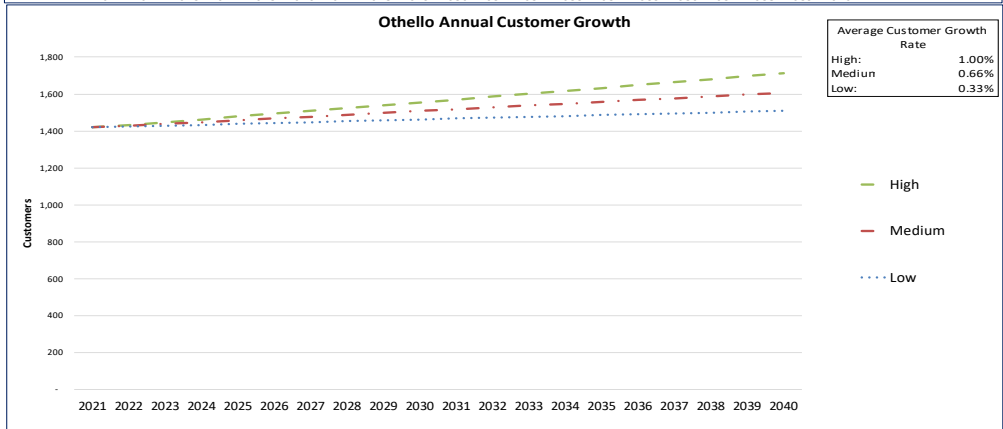
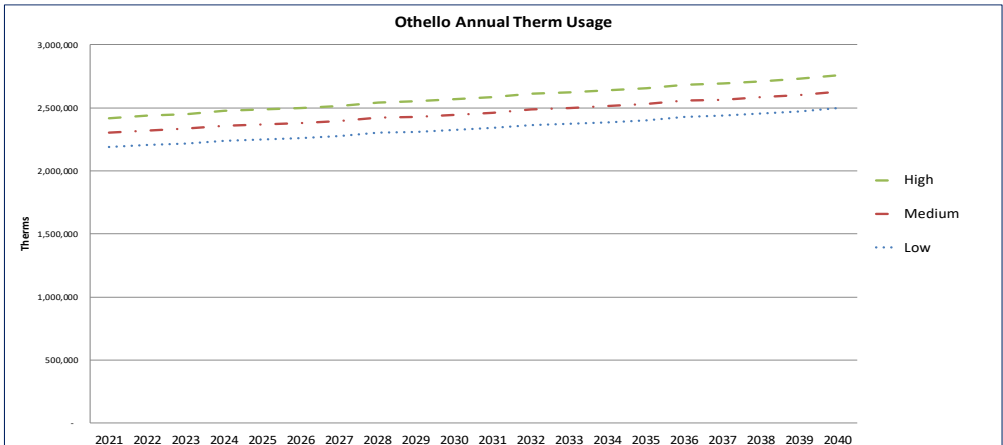


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Othello																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	1,592,204	597,011	2,189,214	1,676,004	628,432	2,304,436	1,759,804	659,854	2,419,658	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,602,721	602,004	2,204,724	1,687,074	633,688	2,320,762	1,771,428	665,372	2,436,801	0.66%	0.84%	0.71%	0.66%	0.71%	0.66%	0.84%	0.71%
2023	1,612,594	606,396	2,218,991	1,697,468	638,312	2,335,780	1,782,341	670,227	2,452,569	0.62%	0.73%	0.65%	0.62%	0.73%	0.65%	0.73%	0.65%
2024	1,628,849	617,874	2,246,723	1,714,578	644,078	2,358,656	1,800,307	676,282	2,476,589	1.01%	0.90%	0.98%	1.01%	0.90%	0.98%	1.01%	0.90%
2025	1,631,724	616,807	2,248,531	1,717,604	649,270	2,366,874	1,803,484	681,734	2,485,218	0.18%	0.81%	0.35%	0.18%	0.81%	0.35%	0.18%	0.35%
2026	1,641,249	621,134	2,262,383	1,727,631	653,825	2,381,456	1,814,013	686,516	2,500,529	0.58%	0.70%	0.62%	0.58%	0.70%	0.62%	0.58%	0.70%
2027	1,651,618	626,006	2,277,624	1,738,545	658,954	2,397,499	1,825,472	691,901	2,517,373	0.63%	0.78%	0.63%	0.63%	0.78%	0.63%	0.78%	0.63%
2028	1,668,507	632,617	2,301,124	1,756,323	665,913	2,422,236	1,844,140	699,209	2,543,348	1.02%	1.06%	1.03%	1.02%	1.06%	1.03%	1.02%	1.06%
2029	1,671,648	637,675	2,309,323	1,759,629	671,236	2,430,866	1,847,611	704,798	2,552,409	0.19%	0.80%	0.36%	0.19%	0.80%	0.36%	0.19%	0.80%
2030	1,681,933	641,804	2,323,736	1,770,456	675,583	2,446,038	1,858,978	709,362	2,568,340	0.62%	0.65%	0.62%	0.62%	0.65%	0.62%	0.65%	0.62%
2031	1,692,670	646,607	2,339,277	1,781,758	680,639	2,462,397	1,870,846	714,671	2,585,517	0.64%	0.75%	0.67%	0.64%	0.75%	0.67%	0.64%	0.75%
2032	1,710,063	653,517	2,363,581	1,800,607	687,913	2,488,520	1,890,070	722,309	2,612,379	1.03%	1.07%	1.04%	1.03%	1.07%	1.04%	1.03%	1.07%
2033	1,713,018	659,007	2,372,025	1,803,177	693,692	2,496,869	1,893,336	728,376	2,621,712	0.17%	0.84%	0.36%	0.17%	0.84%	0.36%	0.17%	0.84%
2034	1,723,536	663,712	2,387,248	1,814,248	698,644	2,512,892	1,904,961	733,576	2,638,537	0.61%	0.71%	0.64%	0.61%	0.71%	0.64%	0.61%	0.71%
2035	1,735,226	668,559	2,403,785	1,826,553	703,746	2,530,299	1,917,881	738,933	2,656,814	0.68%	0.73%	0.69%	0.68%	0.73%	0.69%	0.68%	0.73%
2036	1,753,212	675,111	2,428,324	1,845,487	710,644	2,556,130	1,937,761	746,176	2,683,937	1.04%	0.98%	1.04%	1.04%	0.98%	1.02%	1.04%	0.98%
2037	1,756,281	680,715	2,436,996	1,848,717	716,542	2,565,259	1,941,153	752,369	2,693,522	0.18%	0.83%	0.36%	0.18%	0.83%	0.36%	0.18%	0.83%
2038	1,767,552	686,065	2,453,617	1,860,581	722,174	2,582,755	1,953,610	758,283	2,711,892	0.64%	0.79%	0.68%	0.64%	0.79%	0.68%	0.64%	0.79%
2039	1,779,025	691,589	2,470,613	1,872,658	727,988	2,600,645	1,966,290	764,387	2,730,678	0.65%	0.81%	0.69%	0.65%	0.81%	0.69%	0.65%	0.81%
2040	1,798,568	698,907	2,497,475	1,893,229	735,692	2,628,921	1,987,890	772,476	2,760,367	1.10%	1.06%	1.09%	1.10%	1.06%	1.09%	1.10%	1.06%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	1,636	10,235	11,871	1,722	10,774	12,495	1,808	11,312	13,120	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,649	10,285	11,934	1,736	10,826	12,563	1,823	11,368	13,191	0.84%	0.49%	0.54%	0.84%	0.49%	0.54%	0.84%	0.49%
2023	1,661	10,332	11,993	1,749	10,876	12,625	1,836	11,420	13,256	0.73%	0.46%	0.49%	0.73%	0.46%	0.49%	0.73%	0.46%
2024	1,676	10,343	12,019	1,765	10,887	12,652	1,853	11,432	13,285	0.90%	0.11%	0.22%	0.90%	0.11%	0.22%	0.90%	0.11%
2025	1,690	10,395	12,085	1,779	10,942	12,721	1,868	11,489	13,357	0.81%	0.50%	0.54%	0.81%	0.50%	0.54%	0.81%	0.50%
2026	1,702	10,464	12,165	1,791	11,014	12,806	1,881	11,565	13,446	0.70%	0.66%	0.67%	0.70%	0.66%	0.67%	0.70%	0.66%
2027	1,715	10,513	12,228	1,805	11,067	12,872	1,896	11,620	13,515	0.78%	0.47%	0.52%	0.78%	0.47%	0.52%	0.78%	0.47%
2028	1,733	10,550	12,284	1,824	11,106	12,930	1,916	11,661	13,577	1.06%	0.35%	0.45%	1.06%	0.35%	0.45%	1.06%	0.35%
2029	1,747	10,604	12,351	1,839	11,163	13,002	1,931	11,721	13,652	0.80%	0.51%	0.55%	0.80%	0.51%	0.55%	0.80%	0.51%
2030	1,758	10,629	12,387	1,851	11,188	13,039	1,943	11,748	13,691	0.65%	0.23%	0.29%	0.65%	0.23%	0.29%	0.65%	0.23%
2031	1,772	10,680	12,451	1,865	11,242	13,107	1,958	11,804	13,762	0.75%	0.48%	0.52%	0.75%	0.48%	0.52%	0.75%	0.48%
2032	1,790	10,742	12,532	1,885	11,307	13,192	1,979	11,873	13,852	1.07%	0.58%	0.65%	1.07%	0.58%	0.65%	1.07%	0.58%
2033	1,805	10,797	12,603	1,901	11,365	13,266	1,996	11,934	13,929	0.84%	0.51%	0.56%	0.84%	0.51%	0.56%	0.84%	0.51%
2034	1,818	10,847	12,666	1,914	11,418	13,332	2,010	11,999	13,999	0.71%	0.47%	0.50%	0.71%	0.47%	0.50%	0.71%	0.47%
2035	1,832	10,902	12,734	1,928	11,476	13,404	2,024	12,050	14,074	0.73%	0.51%	0.54%	0.73%	0.51%	0.54%	0.73%	0.51%
2036	1,850	10,916	12,766	1,943	11,491	13,437	2,044	12,065	14,109	0.98%	0.13%	0.25%	0.98%	0.13%	0.25%	0.98%	0.13%
2037	1,865	10,998	12,863	1,967	11,576	13,540	2,061	12,155	14,216	0.83%	0.75%	0.76%	0.83%	0.75%	0.76%	0.83%	0.75%
2038	1,880	11,052	12,931	1,979	11,633	13,612	2,077	12,215	14,292	0.79%	0.49%	0.53%	0.79%	0.49%	0.53%	0.79%	0.49%
2039	1,895	11,107	13,002	1,994	11,692	13,686	2,094	12,276	14,370	0.81%	0.50%	0.55%	0.81%	0.50%	0.55%	0.81%	0.50%
2040	1,915	11,152	13,066	2,016	11,739	13,754	2,116	12,325	14,442	1.06%	0.40%	0.50%	1.06%	0.40%	0.50%	1.06%	0.40%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	597,416	1,591,798	2,189,214	628,859	1,675,577	2,304,436	660,302	1,759,356	2,419,658	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	598,601	1,606,123	2,204,724	630,107	1,690,656	2,320,762	661,612	1,775,189	2,436,801	0.20%	0.90%	0.71%	0.20%	0.90%	0.71%	0.20%	0.90%
2023	599,710	1,619,280	2,218,991	631,274	1,704,505	2,335,780	662,838	1,789,731	2,452,569	0.19%	0.82%	0.65%	0.19%	0.82%	0.65%	0.19%	0.82%
2024	603,536	1,637,188	2,240,723	635,301	1,723,355	2,358,656	667,066	1,809,523	2,476,589	0.64%	1.11%	0.98%	0.64%	1.11%	0.98%	0.64%	1.11%
2025	601,992	1,646,538	2,248,531	633,676	1,733,198	2,366,874	665,360	1,819,858	2,485,218	-0.26%	0.57%	-0.25%	-0.26%	0.57%	-0.25%	-0.26%	0.57%
2026	603,072	1,659,311	2,262,383	634,813	1,746,643	2,381,456	666,553	1,833,975	2,500,529	0.18%	0.78%	0.62%	0.18%	0.78%	0.62%	0.18%	0.78%
2027	604,253	1,673,371	2,277,624	636,055	1,761,443	2,397,499	667,858	1,849,515	2,517,373	0.20%	0.85%	0.70%	0.20%	0.85%	0.70%	0.20%	0.85%
2028	608,182	1,692,943	2,301,124	640,191	1,782,045	2,422,236	672,201	1,871,147	2,543,348	0.65%	1.17%	1.03%	0.65%	1.17%	1.03%	0.65%	1.17%
2029	606,682	1,702,640	2,309,323	638,613	1,792,253	2,430,866	670,544	1,881,866	2,568,340	-0.25%	0.57%	-0.25%	-0.25%	0.57%	-0.25%	-0.25%	0.57%
2030	607,804	1,715,932	2,323,736	639,794	1,806,244	2,446,038	671,784	1,896,556	2,568,340	0.18%	0.78%	0.62%	0.18%	0.78%	0.62%	0.18%	0.78%
2031	609,001	1,730,276	2,339,277	641,054	1,821,343	2,462,397	673,107	1,912,410	2,585,517	0.20%	0.84%	0.70%	0.20%	0.84%	0.70%	0.20%	0.84%
2032	613,018	1,750,563	2,363,581	645,282	1,842,698	2,487,980	677,546	1,934,833	2,612,379	0.66%	1.17%	1.04%	0.66%	1.17%	1.04%	0.66%	1.17%
2033	611,504	1,760,521	2,372,025	643,688	1,853,180	2,496,869	675,873	1,945,839	2,621,712	-0.25%	0.57%	-0.25%	-0.25%	0.57%	-0.25%	-0.25%	0.57%
2034	612,685	1,774,563	2,387,248	644,931	1,867,961	2,512,892	677,178	1,961,359	2,638,537	0.19%	0.80%	0.64%	0.19%	0.80%	0.64%	0.19%	0.80%
2035	613,965	1,789,819	2,403,784	646,279	1,884,020	2,530,299	678,593	1,978,221	2,656,814	0.21%	0.86%	0.71%	0.21%	0.86%	0.71%	0.21%	0.86%
2036	618,004	1,810,319	2,428,324	650,531	1,905,599	2,556,130	683,057	2,000,879	2,683,937	0.66%	1.15%	1.02%	0.66%	1.15%	1.02%	0.66%	1.15%
2037	616,508	1,820,488	2,436,996	648,956	1,916,303	2,565,259	681,404	2,012,118	2,693,522	-0.24%	0.56%	-0.24%	-0.24%	0.56%	-0.24%	-0.24%	0.56%
2038	617,790	1,835,827	2,453,617	650,305	1,932,449	2,582,755	682,820	2,									



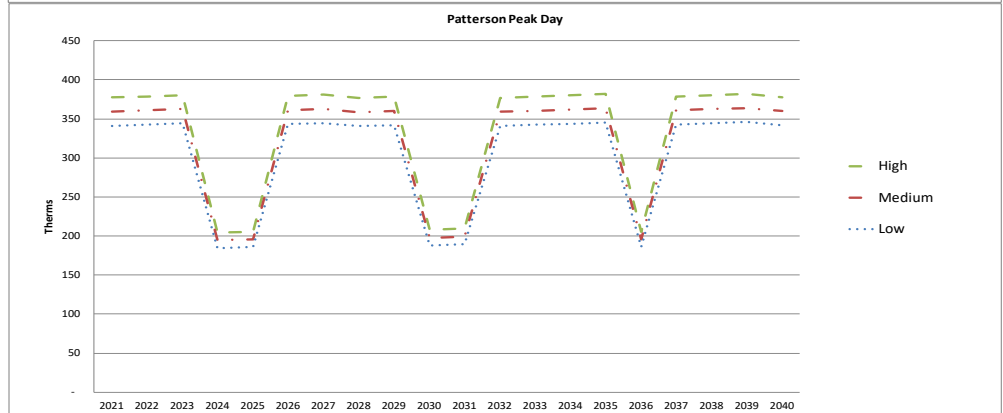
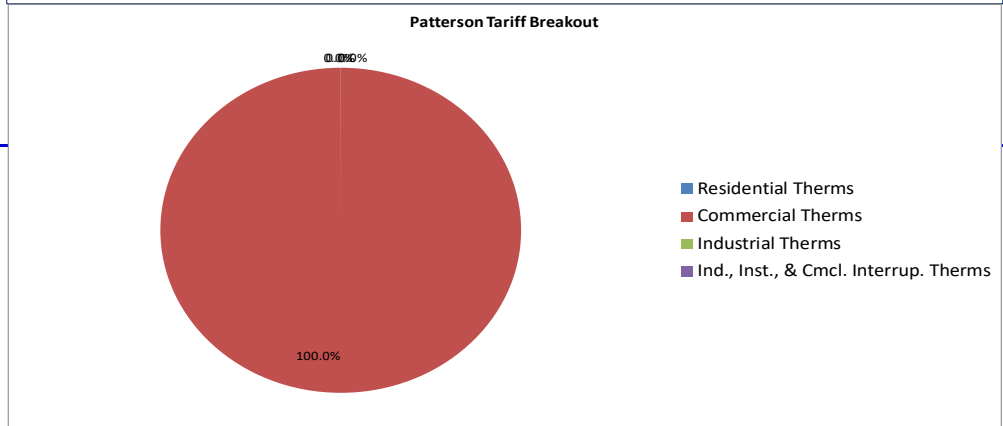
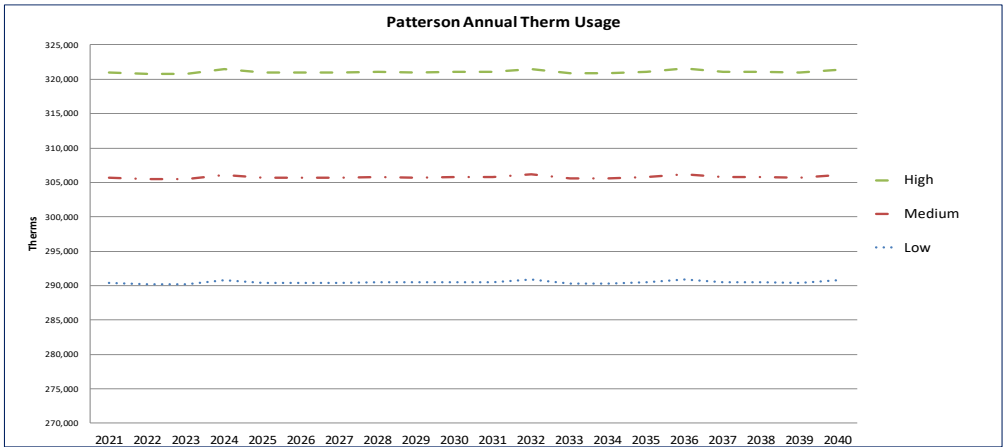
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Patterson												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	237,922	52,459	290,381	250,444	55,220	305,664	262,966	57,981	320,947	0.00%	0.00%	0.00%
2022	236,725	53,509	290,233	249,184	56,325	305,509	261,643	59,141	320,784	-0.50%	2.00%	-0.05%
2023	238,379	51,861	290,240	250,926	54,590	305,516	263,472	57,320	320,792	0.70%	-3.08%	0.00%
2024	239,507	51,303	290,810	252,113	54,003	306,116	264,719	56,703	321,422	0.47%	-1.08%	0.20%
2025	238,014	52,399	290,413	250,541	55,157	305,698	263,068	57,915	320,983	-0.62%	2.14%	-0.62%
2026	238,018	52,403	290,421	250,546	55,161	305,707	263,073	57,919	320,992	0.00%	0.01%	0.00%
2027	237,770	52,660	290,430	250,285	55,431	305,716	262,799	58,203	321,001	-0.10%	0.49%	0.00%
2028	237,965	52,567	290,531	250,489	55,333	305,822	263,013	58,100	321,114	0.08%	-0.18%	0.03%
2029	239,284	51,159	290,443	251,878	53,851	305,730	264,472	56,544	321,016	0.55%	-2.68%	-0.03%
2030	239,481	50,972	290,453	252,085	53,654	305,740	264,690	56,337	321,027	0.08%	-0.37%	0.00%
2031	238,044	52,418	290,462	250,573	55,177	305,750	263,102	57,936	321,037	-0.60%	2.84%	0.00%
2032	238,486	52,391	290,877	251,038	55,148	306,186	263,590	57,906	321,495	0.19%	-0.05%	0.14%
2033	236,962	53,335	290,297	249,459	56,143	305,602	261,932	58,950	320,882	-0.63%	1.80%	-0.19%
2034	238,252	52,076	290,328	250,792	54,817	305,609	263,331	57,558	320,889	0.53%	-2.36%	0.00%
2035	239,624	50,868	290,491	252,235	53,545	305,780	264,847	56,222	321,069	0.58%	-2.32%	0.06%
2036	238,495	52,413	290,908	251,047	55,172	306,219	263,599	57,930	321,530	-0.47%	3.04%	0.14%
2037	238,112	52,398	290,508	250,645	55,154	305,798	263,177	57,911	321,088	-0.16%	-0.03%	-0.14%
2038	237,968	52,549	290,517	250,492	55,315	305,807	263,017	58,080	321,097	-0.06%	0.29%	0.00%
2039	236,778	53,590	290,368	249,240	56,410	305,650	261,702	59,231	320,933	-0.50%	1.98%	-0.05%
2040	239,445	51,335	290,780	252,048	54,037	306,084	264,650	56,739	321,388	1.13%	-4.21%	0.14%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	144	198	341	151	208	359	159	218	377	0.00%	0.00%	0.00%
2022	147	196	343	154	206	361	162	217	379	2.00%	-0.72%	0.42%
2023	142	202	344	150	213	362	157	223	380	-3.08%	3.06%	-0.44%
2024	141	44	185	148	46	194	155	49	204	-1.08%	-78.17%	-46.34%
2025	144	42	186	151	45	196	159	47	206	2.14%	-3.71%	0.74%
2026	144	199	343	151	210	361	159	220	379	0.01%	369.53%	84.40%
2027	144	200	345	152	211	363	159	221	381	0.49%	0.40%	0.44%
2028	144	197	341	152	207	359	159	217	376	-0.18%	-1.83%	-1.14%
2029	140	202	342	148	212	360	155	223	378	-2.68%	2.66%	0.41%
2030	140	48	188	147	51	198	154	53	208	-0.37%	-76.13%	-45.08%
2031	144	46	189	151	48	199	159	51	209	2.84%	-5.14%	0.79%
2032	144	197	341	151	208	359	159	218	377	-0.05%	332.18%	80.14%
2033	146	196	342	154	207	360	162	217	378	1.80%	-0.61%	0.40%
2034	143	201	344	150	212	362	158	222	380	-2.36%	2.49%	-0.42%
2035	139	206	345	147	217	364	154	228	382	-2.32%	2.39%	0.43%
2036	144	42	186	151	44	195	159	47	205	3.04%	-79.56%	-46.22%
2037	144	199	343	151	210	361	159	220	379	-0.03%	373.17%	84.58%
2038	144	200	344	152	211	362	159	221	380	0.29%	0.51%	0.42%
2039	147	199	346	155	209	364	162	220	380	1.98%	-0.68%	0.43%
2040	141	201	342	148	212	360	155	222	378	-4.21%	1.13%	-1.14%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	39	290,342	290,381	41	305,623	305,664	43	320,904	320,947	0.00%	0.00%	0.00%
2022	48	290,186	290,233	50	305,459	305,509	53	320,732	320,784	21.80%	-0.05%	-0.05%
2023	55	290,185	290,240	58	305,458	305,516	61	320,731	320,792	16.24%	0.00%	0.00%
2024	63	290,747	290,810	66	306,050	306,116	70	321,352	321,422	14.11%	0.19%	0.20%
2025	71	290,342	290,413	75	305,623	305,698	78	320,904	320,983	12.57%	-0.14%	-0.14%
2026	79	290,342	290,421	84	305,623	305,707	88	320,904	320,992	11.82%	0.00%	0.00%
2027	88	290,342	290,430	92	305,623	305,716	97	320,905	321,001	10.53%	0.00%	0.00%
2028	95	290,436	290,531	100	305,722	305,822	105	321,008	321,114	8.80%	0.03%	0.03%
2029	104	290,339	290,443	109	305,621	305,730	115	320,902	321,016	8.63%	-0.03%	-0.03%
2030	112	290,341	290,453	118	305,622	305,740	124	320,903	321,027	7.96%	0.00%	0.00%
2031	120	290,342	290,462	126	305,623	305,750	133	320,905	321,037	7.31%	0.00%	0.00%
2032	128	290,749	290,877	135	306,051	306,186	142	321,354	321,495	6.80%	0.14%	0.14%
2033	136	290,186	290,322	143	305,459	305,602	150	320,732	320,882	5.81%	-0.19%	-0.19%
2034	143	290,185	290,328	151	305,458	305,609	159	320,731	320,889	5.73%	0.00%	0.00%
2035	151	290,340	290,491	159	305,621	305,780	167	320,902	321,069	5.54%	0.05%	0.06%
2036	159	290,749	290,908	167	306,051	306,219	176	321,354	321,530	5.05%	0.14%	0.14%
2037	167	290,342	290,508	175	305,623	305,798	184	320,904	321,088	4.77%	-0.14%	-0.14%
2038	175	290,342	290,517	184	305,623	305,807	193	320,904	321,097	4.71%	0.00%	0.00%
2039	182	290,186	290,368	192	305,459	305,650	201	320,732	320,933	4.25%	-0.05%	-0.05%
2040	190	290,591	290,780	199	305,885	306,084	209	321,179	321,388	4.16%	0.14%	0.14%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2022	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2023	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2024	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2025	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2026	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2027	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2028	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2029	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2030	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2031	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2032	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2033	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2034	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2035	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2036	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2037	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2038	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2039	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%
2040	1	5	6	1	5	6	1	5	6	0.00%	0.00%	0.00%



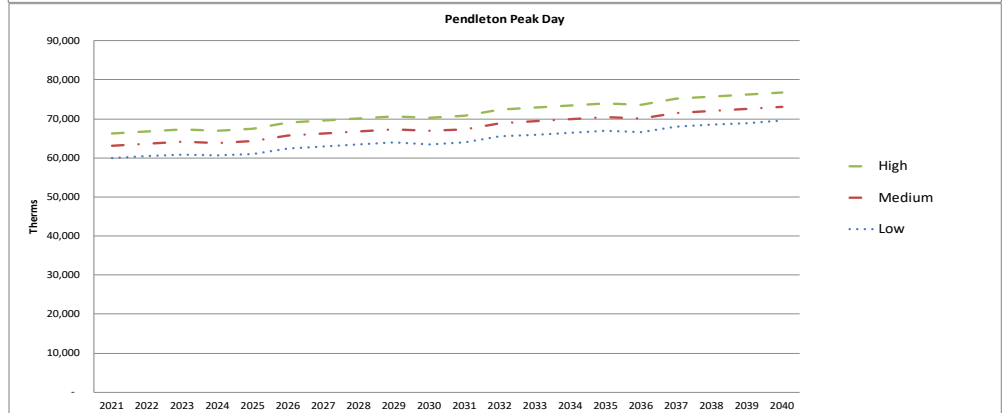
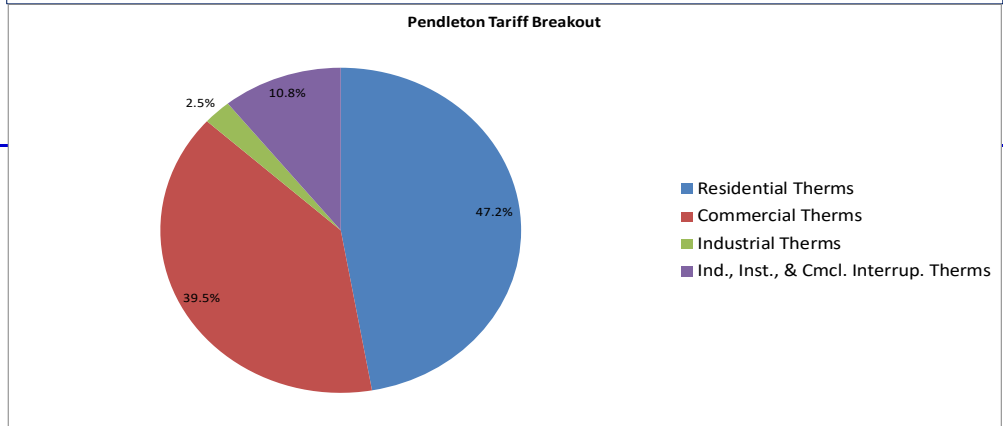
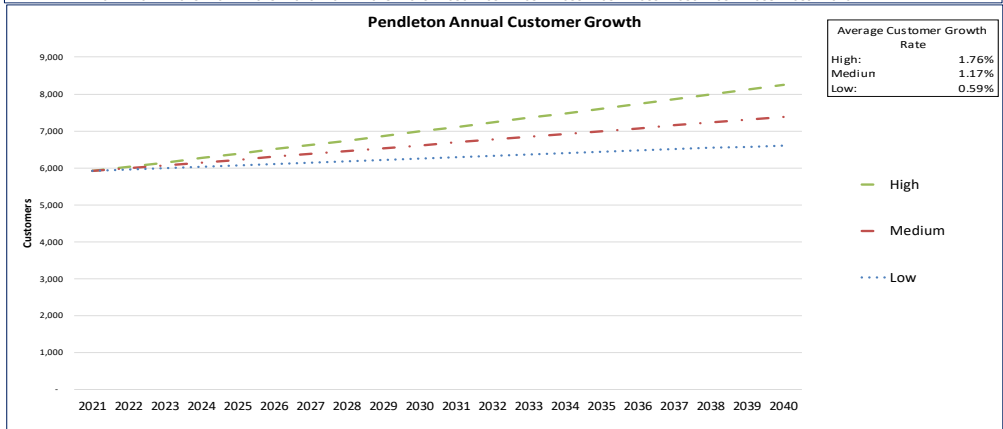
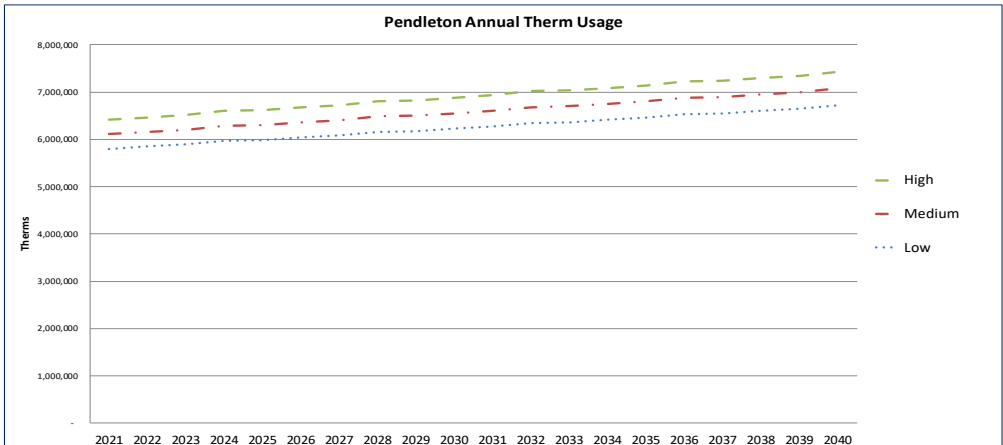
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Pendleton												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	4,165,230	1,637,421	5,802,651	4,384,452	1,723,601	6,108,054	4,603,675	1,809,781	6,413,456	0.00%	0.00%	0.00%
2022	4,196,337	1,652,407	5,848,743	4,417,197	1,739,375	6,156,572	4,638,057	1,826,344	6,464,401	0.75%	0.92%	0.75%
2023	4,231,959	1,663,706	5,895,665	4,454,693	1,751,270	6,205,963	4,677,428	1,838,833	6,516,261	0.85%	0.68%	0.85%
2024	4,307,687	1,664,906	5,972,593	4,534,408	1,752,533	6,286,940	4,761,128	1,840,159	6,601,287	1.79%	1.30%	1.79%
2025	4,317,224	1,673,511	5,990,734	4,544,446	1,761,590	6,306,036	4,771,668	1,849,670	6,621,338	0.22%	0.52%	0.22%
2026	4,349,193	1,688,465	6,037,658	4,578,098	1,777,331	6,355,430	4,807,003	1,866,198	6,673,201	0.74%	0.89%	0.74%
2027	4,379,176	1,705,415	6,084,592	4,609,660	1,795,173	6,404,833	4,840,143	1,884,932	6,725,075	0.69%	1.00%	0.69%
2028	4,438,301	1,721,545	6,159,846	4,671,896	1,812,152	6,484,049	4,905,491	1,902,760	6,808,251	1.35%	0.95%	1.35%
2029	4,448,813	1,730,034	6,178,848	4,682,961	1,821,089	6,504,050	4,917,109	1,912,143	6,829,253	0.24%	0.49%	0.24%
2030	4,493,325	1,742,444	6,225,769	4,729,816	1,823,625	6,553,441	4,966,307	1,914,806	6,881,113	1.00%	0.14%	1.00%
2031	4,531,679	1,740,996	6,272,675	4,770,188	1,832,628	6,602,816	5,008,698	1,924,259	6,932,957	0.85%	0.49%	0.85%
2032	4,587,588	1,763,029	6,350,617	4,829,400	1,855,820	6,684,860	5,070,492	1,948,611	7,019,103	1.23%	1.27%	1.23%
2033	4,587,501	1,778,502	6,366,003	4,828,948	1,872,108	6,701,056	5,070,395	1,965,713	7,036,109	0.00%	0.88%	0.24%
2034	4,623,174	1,789,751	6,412,925	4,866,499	1,883,949	6,750,448	5,109,823	1,978,147	7,087,970	0.78%	0.63%	0.78%
2035	4,662,690	1,798,098	6,460,788	4,908,095	1,892,734	6,800,830	5,153,500	1,987,372	7,140,871	0.85%	0.47%	0.85%
2036	4,741,376	1,798,259	6,539,634	4,990,922	1,892,904	6,883,826	5,240,466	1,987,549	7,222,817	1.69%	0.01%	1.69%
2037	4,741,500	1,813,493	6,554,992	4,991,053	1,908,939	6,899,992	5,240,606	2,004,386	7,244,991	0.00%	0.85%	0.23%
2038	4,771,002	1,840,924	6,601,926	5,022,107	1,927,288	6,949,396	5,273,213	2,023,653	7,296,866	0.62%	0.96%	0.62%
2039	4,801,165	1,866,740	6,647,905	5,053,858	1,943,937	6,997,794	5,306,550	2,041,134	7,347,684	0.63%	0.86%	0.63%
2040	4,871,855	1,855,868	6,727,723	5,128,268	1,953,546	7,081,814	5,384,682	2,051,223	7,435,904	1.47%	0.49%	1.47%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	4,486	55,428	59,914	4,722	58,345	63,067	4,958	61,262	66,220	0.00%	0.00%	0.00%
2022	4,527	55,872	60,399	4,765	58,813	63,578	5,004	61,753	66,757	0.92%	0.80%	0.81%
2023	4,558	56,326	60,884	4,798	59,290	64,088	5,038	62,255	67,293	0.68%	0.81%	0.68%
2024	4,561	56,023	60,585	4,801	58,972	63,773	5,042	61,920	66,962	0.07%	-0.54%	-0.49%
2025	4,585	56,778	61,363	4,826	59,451	64,277	5,068	62,423	67,491	0.52%	0.81%	0.52%
2026	4,626	57,784	62,410	4,869	60,826	65,695	5,113	63,867	68,980	0.89%	2.31%	2.21%
2027	4,672	58,222	62,895	4,918	61,287	66,205	5,164	64,351	69,515	1.00%	0.76%	1.00%
2028	4,717	58,736	63,452	4,965	61,827	66,792	5,213	64,918	70,132	0.95%	0.88%	0.95%
2029	4,740	59,197	63,937	4,989	62,313	67,302	5,239	65,429	70,667	0.49%	0.79%	0.49%
2030	4,746	58,779	63,525	4,996	61,873	66,869	5,246	65,960	70,212	-0.14%	-0.71%	-0.64%
2031	4,770	59,233	64,003	5,021	62,350	67,371	5,272	65,468	70,740	0.49%	0.77%	0.49%
2032	4,830	60,634	65,465	5,084	63,826	68,910	5,339	67,017	72,356	1.27%	2.37%	2.28%
2033	4,873	61,076	65,949	5,129	64,291	69,420	5,386	67,505	72,891	0.88%	0.73%	0.88%
2034	4,903	61,529	66,433	5,162	64,767	69,929	5,420	68,006	73,425	0.63%	0.74%	0.63%
2035	4,926	61,990	66,916	5,186	65,252	70,438	5,445	68,515	73,960	0.47%	0.75%	0.47%
2036	4,927	61,614	66,540	5,186	64,856	70,042	5,445	68,099	73,545	0.01%	-0.61%	-0.56%
2037	4,968	62,992	67,960	5,230	66,307	71,537	5,491	69,623	75,114	0.85%	2.24%	2.13%
2038	5,016	63,427	68,444	5,280	66,766	72,046	5,544	70,150	75,648	0.96%	0.69%	0.96%
2039	5,060	63,867	68,927	5,326	67,228	72,554	5,592	70,704	76,182	0.86%	0.69%	0.86%
2040	5,085	64,404	69,489	5,352	67,794	73,146	5,620	71,184	76,803	0.49%	0.84%	0.82%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	2,739,718	3,062,933	5,802,651	2,883,913	3,224,140	6,108,054	3,028,109	3,385,347	6,413,456	0.00%	0.00%	0.00%
2022	2,768,686	3,080,057	5,848,743	2,914,407	3,242,166	6,156,572	3,060,127	3,404,274	6,464,401	1.06%	0.56%	1.06%
2023	2,798,044	3,097,621	5,895,665	2,945,310	3,260,654	6,205,963	3,092,575	3,423,686	6,516,261	1.06%	0.80%	1.06%
2024	2,842,457	3,130,136	5,972,593	2,992,060	3,294,880	6,286,940	3,141,663	3,459,624	6,601,287	1.59%	1.05%	1.59%
2025	2,857,427	3,133,307	5,990,734	3,007,818	3,298,218	6,306,036	3,158,209	3,463,129	6,621,338	0.53%	1.00%	0.53%
2026	2,886,794	3,150,864	6,037,658	3,038,730	3,316,699	6,355,430	3,190,667	3,482,534	6,673,201	1.03%	0.56%	1.03%
2027	2,916,160	3,168,432	6,084,592	3,069,642	3,335,191	6,404,833	3,223,125	3,501,951	6,725,075	1.02%	0.56%	1.02%
2028	2,959,928	3,199,918	6,159,846	3,115,714	3,368,335	6,484,049	3,271,500	3,536,751	6,808,251	1.50%	0.99%	1.50%
2029	2,975,137	3,203,711	6,178,848	3,131,723	3,372,327	6,504,050	3,288,309	3,540,943	6,829,253	0.51%	1.12%	0.51%
2030	3,004,504	3,221,265	6,225,769	3,162,635	3,390,806	6,553,441	3,320,767	3,560,346	6,881,113	0.99%	0.55%	0.99%
2031	3,033,870	3,238,805	6,272,675	3,193,547	3,409,269	6,602,816	3,353,223	3,579,732	6,932,957	0.98%	0.54%	0.98%
2032	3,079,084	3,271,533	6,350,617	3,241,141	3,443,719	6,684,860	3,403,198	3,615,905	7,019,103	1.49%	1.01%	1.49%
2033	3,092,410	3,273,592	6,366,003	3,255,169	3,445,887	6,701,056	3,417,927	3,618,181	7,036,109	0.43%	0.06%	0.43%
2034	3,121,769	3,291,156	6,412,925	3,286,073	3,464,375	6,750,448	3,450,376	3,637,594	7,087,970	0.95%	0.54%	0.95%
2035	3,151,580	3,309,209	6,460,788	3,317,452	3,483,378	6,800,830	3,483,325	3,657,546	7,140,871	0.95%	0.55%	0.95%
2036	3,197,394	3,342,241	6,539,634	3,365,678	3,518,148	6,883,826	3,533,961	3,694,056	7,228,817	1.45%	1.00%	1.45%
2037	3,210,564	3,344,428	6,554,992	3,379,541	3,520,451	6,899,992	3,548,518	3,696,473	7,244,991	0.41%	0.07%	0.41%
2038	3,239,931	3,361,995	6,601,926	3,410,454	3,538,942	6,949,396	3,580,976	3,715,889	7,296,866	0.91%	0.53%	0.91%
2039	3,268,828	3,379,076	6,647,905	3,440,872	3,556,923	6,997,794	3,612,915	3,734,769	7,347,684	0.89%	0.51%	0.89%
2040	3,315,234	3,412,489	6,727,723	3,489,720	3,592,094	7,081,814	3,664,206	3,771,699	7,435,904	1.42%	0.99%	1.42%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	5,138	776	5,915	5,138	776	5,915	5,138	776	5,915	0.00%	0.00%	0.00%
2022	5,173	781	5,953	5,207	785	5,992	5,242	789	6,031	0.67%	0.53%	0.65%
2023	5,207	785	5,992	5,277	793	6,070	5,346	801	6,148	0.66%	0.54%	0.65%
2024	5,241	789	6,030	5,346	801	6,147	5,451	814	6,265	0.65%	0.52%	0.64%
2025	5,275	793	6,068	5,415	810	6,224	5,557	826	6,384	0.65%	0.51%	0.63%
2026	5,309	797	6,106	5,484	818	6,302	5,663	839	6,502	0.64%	0.51%	0.62%
2027	5,342	801	6,143	5,553	826	6,379	5,770	852	6,622	0.63%	0.50%	0.61%
2028	5,376	805	6,180	5,622	834	6,456	5,878	865	6,743	0.62%	0.50%	0.61%
2029	5,409	809	6,217	5,691	843	6,534	5,986	877	6,864	0.61%	0.49%	0.60%
2030	5,441	813	6,254	5,760	851	6,611	6,096	891	6,986	0.61%	0.49%	0.59%
2031	5,474	817	6,291	5,829	859	6,688	6,205	903	7,109	0.60%	0.48%	0.58%
2032	5,506	821	6,327	5,898	867	6,766	6,315	917	7,232	0.59%	0.48%	0.58%
2033	5,539	825	6,363	5,968	876	6,843	6,427	930	7,356	0.59%	0.48%	0.57%
2034	5,571	829	6,399	6,036	884	6,921	6,538	943	7,481	0.58%	0.48%	0.56%
2035	5,603	832	6,435	6,106	892	6,998	6,650	956	7,606	0.57%	0.46%	0.56%
2036	5,634	836	6,471	6,175	901	7,075	6,763	969	7,733	0.5		



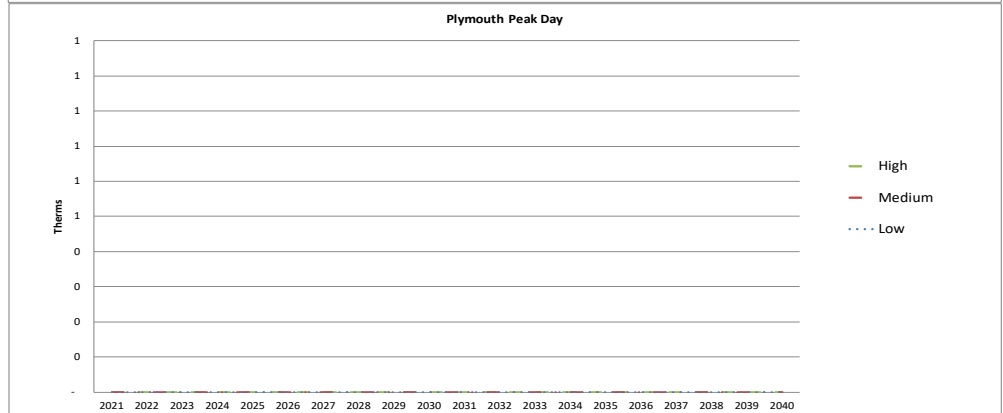
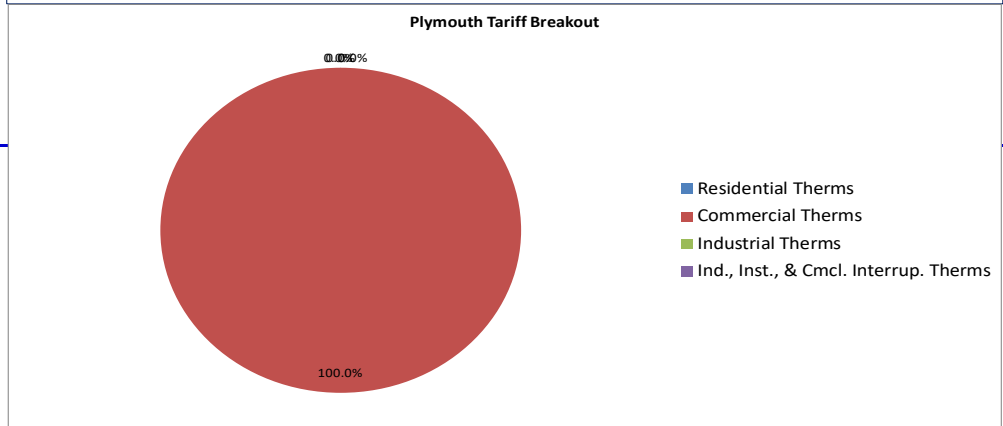
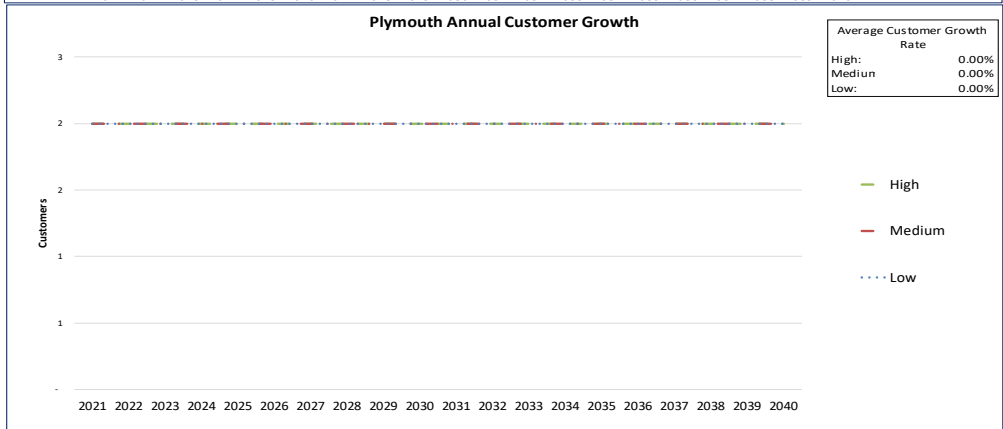
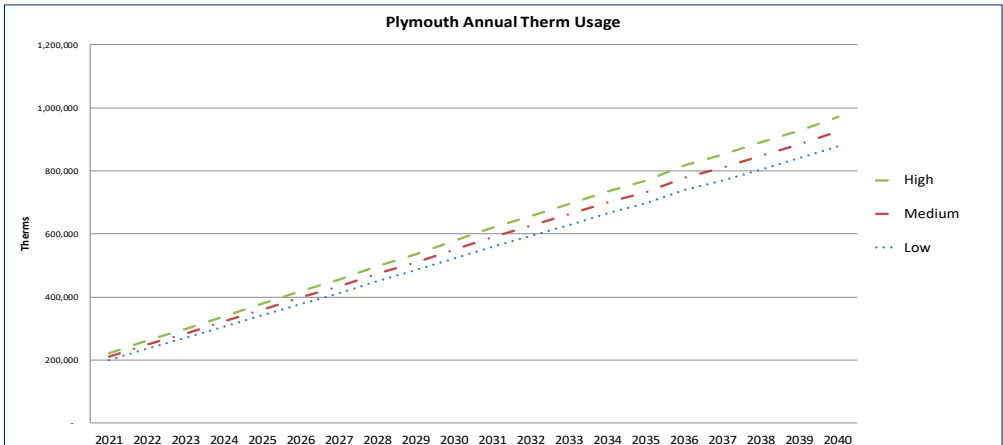
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Plymouth																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	199,772	-	199,772	210,286	-	210,286	220,800	-	220,800	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	237,111	-	237,111	249,591	-	249,591	262,070	-	262,070	18.69%	0.00%	18.69%	18.69%	0.00%	18.69%	18.69%	18.69%
2023	271,399	-	271,399	285,683	-	285,683	299,967	-	299,967	14.46%	0.00%	14.46%	14.46%	0.00%	14.46%	14.46%	14.46%
2024	306,803	-	306,803	322,950	-	322,950	339,098	-	339,098	13.05%	0.00%	13.05%	13.05%	0.00%	13.05%	13.05%	13.05%
2025	343,009	-	343,009	361,062	-	361,062	379,115	-	379,115	11.80%	0.00%	11.80%	11.80%	0.00%	11.80%	11.80%	11.80%
2026	378,786	-	378,786	398,722	-	398,722	418,658	-	418,658	10.43%	0.00%	10.43%	10.43%	0.00%	10.43%	10.43%	10.43%
2027	413,188	-	413,188	434,935	-	434,935	456,682	-	456,682	9.08%	0.00%	9.08%	9.08%	0.00%	9.08%	9.08%	9.08%
2028	450,907	-	450,907	474,639	-	474,639	498,371	-	498,371	9.13%	0.00%	9.13%	9.13%	0.00%	9.13%	9.13%	9.13%
2029	485,220	-	485,220	510,758	-	510,758	536,296	-	536,296	7.61%	0.00%	7.61%	7.61%	0.00%	7.61%	7.61%	7.61%
2030	523,609	-	523,609	551,167	-	551,167	578,725	-	578,725	7.91%	0.00%	7.91%	7.91%	0.00%	7.91%	7.91%	7.91%
2031	560,553	-	560,553	590,055	-	590,055	619,558	-	619,558	7.06%	0.00%	7.06%	7.06%	0.00%	7.06%	7.06%	7.06%
2032	594,931	-	594,931	626,243	-	626,243	657,556	-	657,556	6.13%	0.00%	6.13%	6.13%	0.00%	6.13%	6.13%	6.13%
2033	629,776	-	629,776	662,922	-	662,922	696,068	-	696,068	5.86%	0.00%	5.86%	5.86%	0.00%	5.86%	5.86%	5.86%
2034	665,105	-	665,105	700,111	-	700,111	735,116	-	735,116	5.61%	0.00%	5.61%	5.61%	0.00%	5.61%	5.61%	5.61%
2035	697,395	-	697,395	734,100	-	734,100	770,805	-	770,805	4.85%	0.00%	4.85%	4.85%	0.00%	4.85%	4.85%	4.85%
2036	739,245	-	739,245	778,152	-	778,152	817,060	-	817,060	6.00%	0.00%	6.00%	6.00%	0.00%	6.00%	6.00%	6.00%
2037	770,878	-	770,878	811,451	-	811,451	852,023	-	852,023	4.28%	0.00%	4.28%	4.28%	0.00%	4.28%	4.28%	4.28%
2038	805,526	-	805,526	847,922	-	847,922	890,318	-	890,318	4.49%	0.00%	4.49%	4.49%	0.00%	4.49%	4.49%	4.49%
2039	840,333	-	840,333	884,561	-	884,561	928,789	-	928,789	4.32%	0.00%	4.32%	4.32%	0.00%	4.32%	4.32%	4.32%
2040	878,710	-	878,710	924,958	-	924,958	971,206	-	971,206	4.57%	0.00%	4.57%	4.57%	0.00%	4.57%	4.57%	4.57%

Peak Day - Baseload																	
Low			Medium			High			Low			Medium			High		
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2025	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2026	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2029	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2030	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2031	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2032	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2033	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2034	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2035	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2036	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2037	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2038	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2039	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2040	-	-	-	-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	-	199,772	199,772	-	210,286	210,286	-	220,800	220,800	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	-	237,111	237,111	-	249,591	249,591	-	262,070	262,070	0.00%	18.69%	18.69%	0.00%	18.69%	18.69%	0.00%	18.69%
2023	-	271,399	271,399	-	285,683	285,683	-	299,967	299,967	0.00%	14.46%	14.46%	0.00%	14.46%	14.46%	0.00%	14.46%
2024	-	306,803	306,803	-	322,950	322,950	-	339,098	339,098	0.00%	13.05%	13.05%	0.00%	13.05%	13.05%	0.00%	13.05%
2025	-	343,009	343,009	-	361,062	361,062	-	379,115	379,115	0.00%	11.80%	11.80%	0.00%	11.80%	11.80%	0.00%	11.80%
2026	-	378,786	378,786	-	398,722	398,722	-	418,658	418,658	0.00%	10.43%	10.43%	0.00%	10.43%	10.43%	0.00%	10.43%
2027	-	413,188	413,188	-	434,935	434,935	-	456,682	456,682	0.00%	9.08%	9.08%	0.00%	9.08%	9.08%	0.00%	9.08%
2028	-	450,907	450,907	-	474,639	474,639	-	498,371	498,371	0.00%	9.13%	9.13%	0.00%	9.13%	9.13%	0.00%	9.13%
2029	-	485,220	485,220	-	510,758	510,758	-	536,296	536,296	0.00%	7.61%	7.61%	0.00%	7.61%	7.61%	0.00%	7.61%
2030	-	523,609	523,609	-	551,167	551,167	-	578,725	578,725	0.00%	7.91%	7.91%	0.00%	7.91%	7.91%	0.00%	7.91%
2031	-	560,553	560,553	-	590,055	590,055	-	619,558	619,558	0.00%	7.06%	7.06%	0.00%	7.06%	7.06%	0.00%	7.06%
2032	-	594,931	594,931	-	626,243	626,243	-	657,556	657,556	0.00%	6.13%	6.13%	0.00%	6.13%	6.13%	0.00%	6.13%
2033	-	629,776	629,776	-	662,922	662,922	-	696,068	696,068	0.00%	5.86%	5.86%	0.00%	5.86%	5.86%	0.00%	5.86%
2034	-	665,105	665,105	-	700,111	700,111	-	735,116	735,116	0.00%	5.61%	5.61%	0.00%	5.61%	5.61%	0.00%	5.61%
2035	-	697,395	697,395	-	734,100	734,100	-	770,805	770,805	0.00%	4.85%	4.85%	0.00%	4.85%	4.85%	0.00%	4.85%
2036	-	739,245	739,245	-	778,152	778,152	-	817,060	817,060	0.00%	6.00%	6.00%	0.00%	6.00%	6.00%	0.00%	6.00%
2037	-	770,878	770,878	-	811,451	811,451	-	852,023	852,023	0.00%	4.28%	4.28%	0.00%	4.28%	4.28%	0.00%	4.28%
2038	-	805,526	805,526	-	847,922	847,922	-	890,318	890,318	0.00%	4.49%	4.49%	0.00%	4.49%	4.49%	0.00%	4.49%
2039	-	840,333	840,333	-	884,561	884,561	-	928,789	928,789	0.00%	4.32%	4.32%	0.00%	4.32%	4.32%	0.00%	4.32%
2040	-	878,710	878,710	-	924,958	924,958	-	971,206	971,206	0.00%	4.57%	4.57%	0.00%	4.57%	4.57%	0.00%	4.57%

Customer Count Forecast																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2025	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2026	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2029	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2030	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2031	-	2	2	-	2	2	-	2	2	0.00%	0.00%	0.00%	0.00%	0			

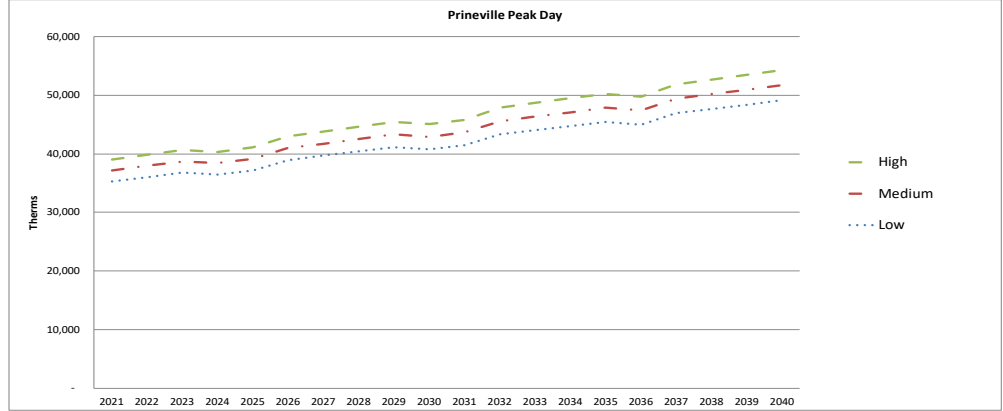
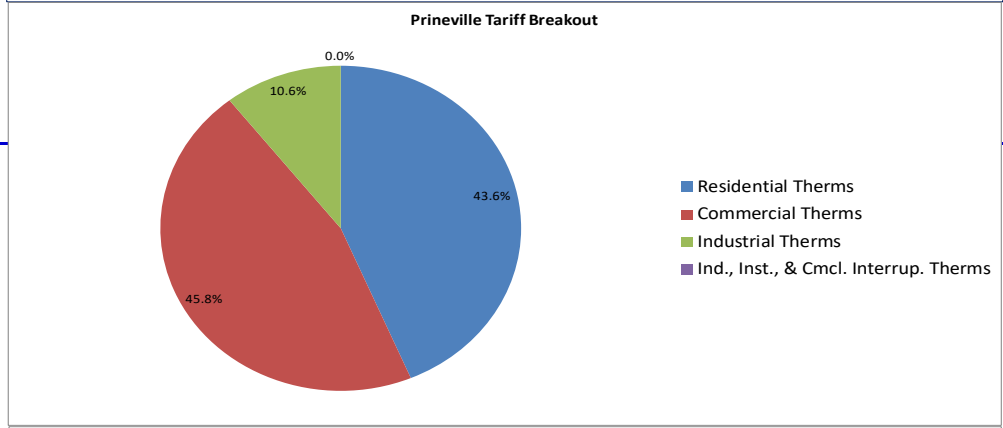
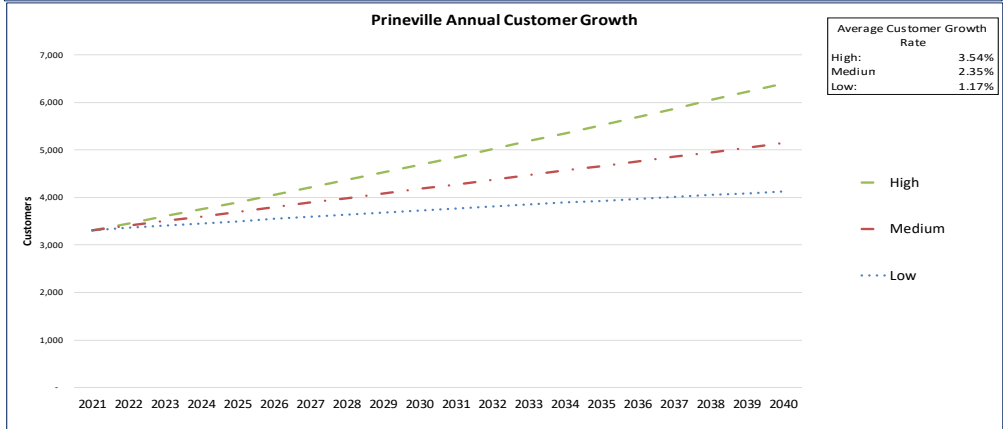
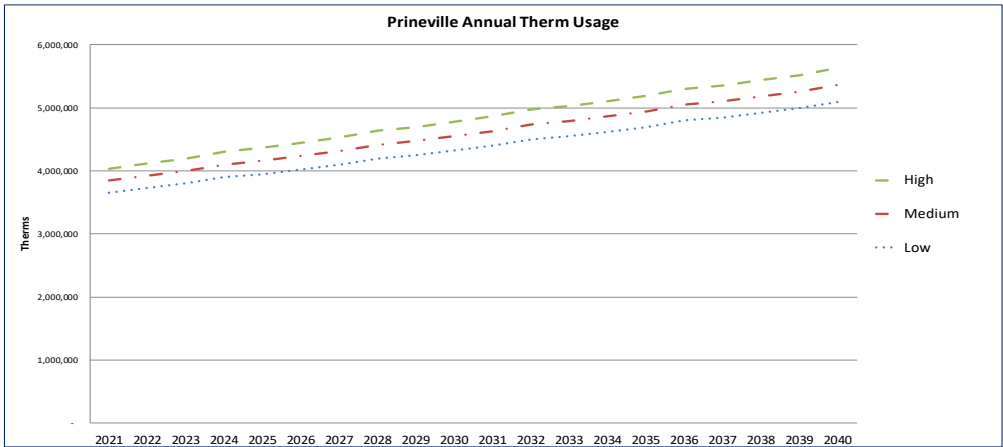


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Prineville																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,753,151	899,163	3,652,313	2,931,899	912,641	3,844,540	3,143,263	899,504	4,036,767	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,820,791	905,323	3,726,114	3,002,550	919,675	3,922,225	3,216,966	901,370	4,118,336	2.46%	0.69%	2.02%	2.41%	0.77%	2.02%	2.34%	0.88%
2023	2,878,846	921,925	3,800,771	3,063,679	937,133	4,000,812	3,281,299	919,554	4,200,853	2.06%	1.83%	2.00%	2.04%	1.90%	2.00%	2.02%	2.02%
2024	2,933,895	964,205	3,898,099	3,122,711	980,552	4,103,263	3,344,940	963,486	4,308,426	1.91%	4.59%	2.56%	1.93%	4.63%	2.56%	1.94%	4.78%
2025	2,970,184	981,277	3,951,461	3,160,927	998,505	4,159,433	3,385,256	982,148	4,367,404	1.24%	1.77%	1.37%	1.22%	1.83%	1.37%	1.21%	1.94%
2026	3,027,843	998,305	4,026,147	3,221,638	1,016,412	4,238,050	3,449,173	1,000,779	4,449,952	1.94%	1.74%	1.89%	1.92%	1.79%	1.89%	1.89%	1.89%
2027	3,097,383	1,003,452	4,100,834	3,294,287	1,022,381	4,316,668	3,524,931	1,007,570	4,532,501	2.30%	0.52%	1.86%	2.26%	0.59%	1.86%	2.20%	0.68%
2028	3,185,282	1,011,498	4,196,781	3,386,190	1,031,474	4,417,664	3,620,876	1,017,671	4,638,547	2.84%	0.80%	2.34%	2.79%	0.89%	2.34%	2.20%	1.00%
2029	3,210,114	1,040,423	4,250,537	3,412,915	1,061,334	4,474,249	3,649,859	1,048,103	4,697,962	0.78%	2.86%	1.28%	0.79%	2.89%	1.28%	0.80%	2.99%
2030	3,255,390	1,069,816	4,325,207	3,461,162	1,091,687	4,552,849	3,701,501	1,078,990	4,780,492	1.41%	2.83%	1.76%	1.41%	2.86%	1.76%	1.41%	2.95%
2031	3,313,103	1,086,778	4,399,881	3,521,931	1,109,522	4,631,453	3,765,502	1,097,524	4,863,026	1.77%	1.59%	1.73%	1.76%	1.63%	1.73%	1.73%	1.73%
2032	3,405,269	1,094,333	4,499,601	3,618,324	1,118,099	4,736,423	3,866,135	1,107,109	4,973,244	2.78%	0.70%	2.27%	2.74%	0.77%	2.27%	0.87%	2.27%
2033	3,450,565	1,097,897	4,548,462	3,665,452	1,122,403	4,787,855	3,915,124	1,112,124	5,027,248	1.33%	0.33%	1.09%	1.30%	0.38%	1.09%	1.27%	0.45%
2034	3,508,748	1,114,347	4,623,095	3,726,715	1,139,701	4,866,415	3,979,606	1,130,130	5,109,736	1.69%	1.50%	1.64%	1.67%	1.54%	1.64%	1.65%	1.69%
2035	3,554,416	1,144,489	4,698,905	3,775,375	1,170,841	4,946,216	4,031,639	1,161,887	5,193,527	1.30%	2.70%	1.64%	1.31%	2.73%	1.64%	1.31%	2.81%
2036	3,621,311	1,178,965	4,800,275	3,846,306	1,206,615	5,052,921	4,107,985	1,198,483	5,305,468	1.88%	0.01%	2.16%	1.88%	3.06%	2.16%	1.87%	3.15%
2037	3,652,768	1,195,838	4,848,606	3,879,436	1,224,360	5,103,796	4,142,050	1,216,935	5,358,986	0.87%	1.43%	1.01%	1.01%	0.86%	1.01%	0.85%	1.54%
2038	3,724,870	1,198,400	4,923,270	3,954,782	1,227,608	5,182,390	4,220,625	1,220,884	5,441,509	1.97%	0.21%	1.54%	1.94%	0.27%	1.54%	1.90%	0.32%
2039	3,796,133	1,200,530	4,996,664	4,029,245	1,230,402	5,259,646	4,298,310	1,224,318	5,522,629	1.91%	0.18%	1.49%	1.88%	0.23%	1.49%	1.84%	0.28%
2040	3,863,875	1,235,780	5,099,655	4,101,068	1,266,990	5,368,058	4,374,614	1,261,847	5,636,461	1.78%	2.94%	2.06%	1.78%	2.97%	2.06%	1.78%	3.07%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	2,463	32,853	35,317	2,500	34,675	37,175	2,448	36,586	39,034	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,480	33,561	36,041	2,520	35,419	37,938	2,470	37,316	39,835	0.69%	2.15%	2.05%	0.77%	2.14%	2.05%	0.88%	2.13%
2023	2,526	34,240	36,766	2,567	36,133	38,701	2,519	38,117	40,636	1.83%	2.02%	2.01%	1.90%	2.02%	2.01%	2.02%	2.01%
2024	2,642	33,875	36,517	2,686	35,752	38,439	2,640	37,721	40,361	4.59%	-1.07%	-0.68%	4.63%	-1.05%	-0.68%	4.78%	-1.04%
2025	2,688	34,489	37,173	2,736	36,447	39,182	2,691	38,451	41,111	1.77%	1.93%	1.83%	1.94%	1.93%	1.83%	1.94%	1.93%
2026	2,735	36,215	38,950	2,785	38,215	41,000	2,742	40,308	43,050	1.74%	4.87%	4.64%	1.79%	4.85%	4.64%	1.90%	4.83%
2027	2,749	36,925	39,674	2,801	38,962	41,763	2,760	41,090	43,851	0.52%	1.96%	1.86%	0.59%	1.95%	1.86%	0.68%	1.94%
2028	2,771	37,638	40,409	2,826	39,710	42,536	2,788	41,875	44,663	0.80%	1.93%	1.85%	0.89%	1.92%	1.85%	1.00%	1.91%
2029	2,850	38,283	41,134	2,908	40,391	43,299	2,872	42,592	45,464	2.86%	1.71%	1.79%	2.89%	1.72%	1.79%	2.99%	1.71%
2030	2,931	37,831	40,762	2,991	39,917	42,908	2,956	42,097	45,053	2.83%	-1.18%	-0.90%	2.86%	-1.17%	-0.90%	2.95%	-1.16%
2031	2,977	38,490	41,468	3,040	40,610	43,650	3,007	42,826	45,833	1.59%	1.74%	1.73%	1.63%	1.74%	1.73%	1.73%	1.73%
2032	2,998	40,319	43,317	3,063	42,534	45,597	3,033	44,844	47,877	0.70%	4.75%	4.46%	0.71%	4.74%	4.46%	0.77%	4.71%
2033	3,008	41,034	44,042	3,075	43,285	46,360	3,047	45,631	48,678	0.33%	1.77%	1.67%	0.38%	1.77%	1.67%	0.45%	1.76%
2034	3,053	41,713	44,766	3,122	44,000	47,122	3,096	46,382	49,478	1.50%	1.66%	1.64%	1.54%	1.65%	1.64%	1.62%	1.64%
2035	3,136	42,354	45,490	3,208	44,677	47,884	3,183	47,095	50,279	2.70%	1.54%	1.62%	2.73%	1.54%	1.62%	2.81%	1.54%
2036	3,230	41,786	45,016	3,306	44,080	47,385	3,284	46,471	49,755	3.01%	-1.34%	-1.04%	3.06%	-1.34%	-1.04%	3.15%	-1.32%
2037	3,276	43,673	46,949	3,354	46,066	49,420	3,334	48,557	51,891	1.43%	4.52%	4.29%	1.47%	4.51%	4.29%	1.54%	4.49%
2038	3,283	44,390	47,673	3,363	46,819	50,183	3,345	49,347	52,692	0.21%	1.64%	1.54%	0.27%	1.64%	1.54%	0.32%	1.63%
2039	3,289	45,108	48,397	3,371	47,573	50,944	3,354	50,137	53,492	0.18%	1.62%	1.52%	0.23%	1.61%	1.52%	0.28%	1.60%
2040	3,386	45,747	49,132	3,471	48,247	51,718	3,457	50,847	54,304	2.94%	1.42%	1.52%	2.97%	1.42%	1.52%	3.07%	1.42%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,576,396	2,075,917	3,652,313	1,659,364	2,185,176	3,844,540	1,742,333	2,294,435	4,036,767	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,625,368	2,100,745	3,726,114	1,710,914	2,211,311	3,922,225	1,796,460	2,321,876	4,118,336	3.11%	1.20%	2.02%	3.11%	1.20%	2.02%	3.11%	1.20%
2023	1,674,724	2,126,407	3,800,771	1,762,868	2,237,945	4,000,812	1,851,011	2,349,842	4,200,853	3.04%	1.20%	2.00%	3.04%	1.20%	2.00%	3.04%	1.20%
2024	1,734,406	2,163,693	3,898,099	1,825,691	2,277,572	4,103,263	1,916,975	2,391,450	4,308,426	3.56%	1.77%	2.56%	3.56%	1.77%	2.56%	3.56%	1.77%
2025	1,774,100	2,177,359	3,951,461	1,867,476	2,291,957	4,159,433	1,960,890	2,406,554	4,367,404	2.29%	0.62%	1.37%	2.29%	0.63%	1.37%	2.29%	0.63%
2026	1,823,446	2,202,698	4,026,147	1,919,420	2,318,629	4,238,050	2,015,391	2,434,561	4,449,952	2.78%	1.16%	1.89%	2.78%	1.16%	1.89%	2.78%	1.16%
2027	1,872,780	2,238,055	4,100,834	1,971,347	2,345,321	4,316,668	2,069,914	2,462,587	4,532,501	2.71%	1.15%	1.86%	2.71%	1.15%	1.86%	2.71%	1.15%
2028	1,932,159	2,264,622	4,196,781	2,033,851	2,383,813	4,417,664	2,135,544	2,503,003	4,638,547	3.17%	1.64%	2.34%	3.17%	1.64%	2.34%	3.17%	1.64%
2029	1,971,623	2,278,914	4,250,537	2,075,393	2,398,856	4,474,249	2,179,163	2,518,799	4,697,962	2.04%	0.63%	1.28%	2.04%	0.63%	1.28%	2.04%	0.63%
2030	2,020,920	2,304,287	4,325,207	2,127,284	2,425,565	4,552,849	2,233,648	2,546,843	4,780,492	2.50%	1.11%	1.76%	2.50%	1.11%	1.76%	2.50%	1.11%
2031	2,070,183	2,329,698	4,399,881	2,179,140	2,452,314	4,631,453	2,288,097	2,574,929	4,863,026	2.44%	1.10%	1.73%	2.44%	1.10%	1.73%	2.44%	1.10%
2032	2,131,595	2,368,007	4,499,601	2,243,784	2,492,639	4,736,423	2,355,973	2,617,271	4,973,244	2.97%	1.64%	2.27%	2.97%	1.64%	2.27%	2.97%	1.64%
2033	2,168,425	2,380,038	4,548,462	2,282,552	2,505,303	4,787,855	2,396,680	2,630,568	5,027,248	1.73%	0.51%	1.09%	1.73%	0.51%	1.09%	1.73%	0.51%
2034	2,217,629	2,405,465	4,623,095	2,334,347	2,532,069	4,866,415	2,451,064	2,658,672	5,109,736	2.27%	1.07%	1.64%	2.27%	1.07%	1.64%	2.27%	1.07%
2035	2,267,401	2,431,504	4,698,905	2,386,738	2,559,478	4,946,216	2,506,075	2,687,452	5,193,527	2.24%	1.08%	1.64%	2.24%	1.08%	1.64%	2.24%	1.08%
2036	2,329,880	2,470,398	4,800,275	2,452,505	2,600,416	5,052,922	2,575,131	2,730,437	5,305,468	2.76%	1.60%	2.16%	2.76%	1.60%	2.16%	2.76%	1.60%
2037	2,366,069	2,482,537	4,848,606	2,490,599	2,613,197	5,103,796	2,615,120	2,743,857	5,358,986	1.55%	0.49%	1.01					

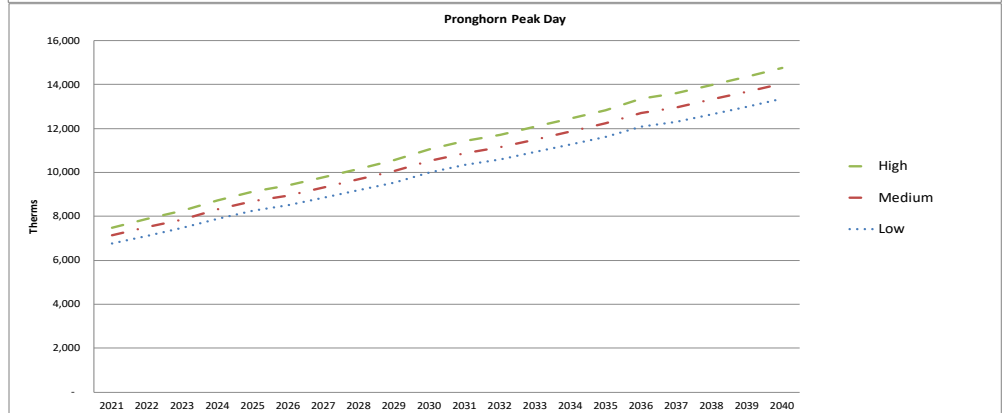
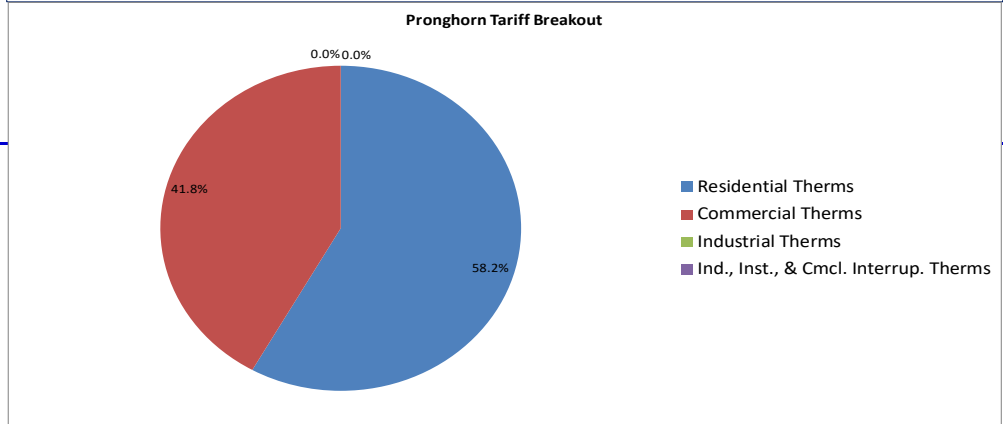
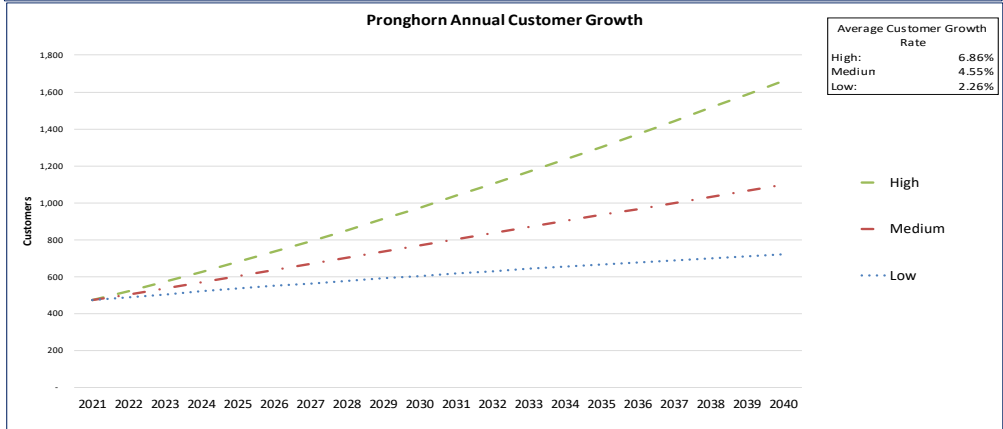
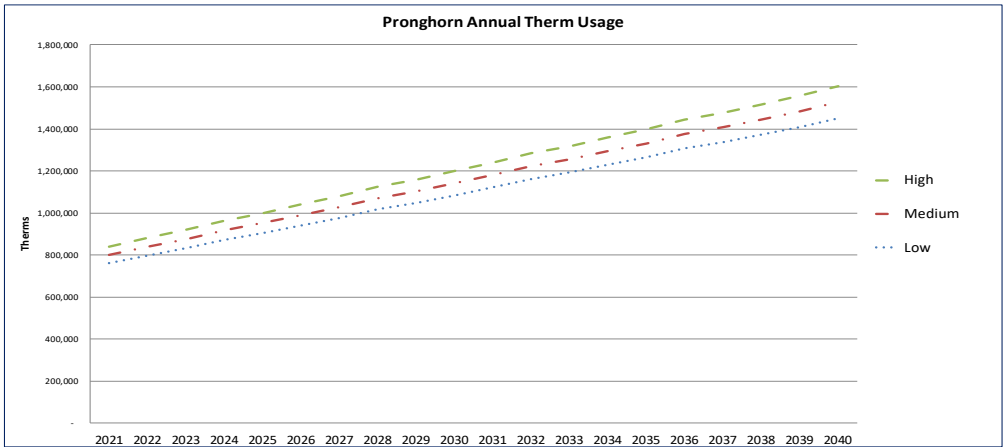


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Pronghorn	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	400,823	359,487	760,311	421,919	378,408	800,327	443,015	397,328	840,344	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	422,078	374,354	796,432	444,293	394,057	838,350	466,508	413,759	880,267	5.30%	4.14%	4.75%	5.30%	4.14%	4.75%	5.30%	4.14%	4.75%
2023	444,164	388,371	832,535	467,541	408,811	876,353	490,918	429,252	920,170	5.23%	3.74%	4.53%	5.23%	3.74%	4.53%	5.23%	3.74%	4.53%
2024	469,639	403,007	872,645	494,356	424,217	918,574	519,074	445,428	964,503	5.74%	3.77%	4.82%	5.74%	3.77%	4.82%	5.74%	3.77%	4.82%
2025	487,780	416,923	904,703	513,452	438,867	952,319	539,125	460,810	999,935	3.86%	3.45%	3.67%	3.86%	3.45%	3.67%	3.86%	3.45%	3.67%
2026	509,934	430,782	940,716	536,772	453,455	990,228	563,611	476,128	1,039,739	4.54%	3.32%	3.98%	4.54%	3.32%	3.98%	4.54%	3.32%	3.98%
2027	531,080	445,638	976,718	559,031	469,093	1,028,124	586,983	492,548	1,079,530	4.15%	4.45%	3.83%	4.15%	3.45%	3.83%	4.15%	3.45%	3.83%
2028	554,288	463,453	1,017,741	583,461	487,846	1,071,306	612,634	512,238	1,124,872	4.37%	4.00%	4.20%	4.37%	4.00%	4.20%	4.37%	4.00%	4.20%
2029	572,631	476,204	1,048,834	602,769	501,267	1,104,036	632,908	526,330	1,159,238	3.31%	2.75%	3.06%	3.31%	2.75%	3.06%	3.31%	2.75%	3.06%
2030	595,974	488,827	1,084,801	627,341	514,554	1,141,895	658,708	548,282	1,198,990	4.08%	2.65%	3.43%	4.08%	2.65%	3.43%	4.08%	2.65%	3.43%
2031	618,239	502,520	1,120,759	650,778	528,968	1,179,747	683,317	555,417	1,238,734	3.74%	2.80%	3.31%	3.74%	2.80%	3.31%	3.74%	2.80%	3.31%
2032	641,548	520,729	1,162,276	675,313	548,135	1,223,449	709,079	575,542	1,284,621	3.77%	3.62%	3.70%	3.77%	3.62%	3.70%	3.77%	3.62%	3.70%
2033	657,182	535,726	1,192,908	691,771	563,922	1,255,693	726,359	592,118	1,318,478	2.44%	2.88%	2.64%	2.44%	2.88%	2.64%	2.44%	2.88%	2.64%
2034	679,422	549,438	1,228,860	715,181	578,356	1,293,537	750,940	607,273	1,358,214	3.38%	2.56%	3.01%	3.38%	2.56%	3.01%	3.38%	2.56%	3.01%
2035	702,933	561,754	1,264,687	739,930	591,320	1,331,249	775,926	620,886	1,397,812	3.46%	2.26%	2.92%	3.46%	2.24%	2.92%	3.46%	2.24%	2.92%
2036	729,234	577,665	1,306,899	767,615	608,068	1,375,683	805,996	638,472	1,444,468	3.74%	2.83%	3.34%	3.74%	2.83%	3.34%	3.74%	2.83%	3.34%
2037	745,428	591,240	1,336,668	784,661	622,357	1,407,015	823,894	653,475	1,477,370	2.22%	2.35%	2.28%	2.22%	2.35%	2.28%	2.22%	2.35%	2.28%
2038	766,349	606,227	1,372,576	806,683	638,133	1,444,817	847,018	670,040	1,517,057	2.81%	2.53%	2.69%	2.81%	2.53%	2.69%	2.81%	2.53%	2.69%
2039	787,362	621,238	1,408,600	828,802	653,995	1,482,737	870,242	686,631	1,556,874	2.74%	2.48%	2.62%	2.74%	2.48%	2.62%	2.74%	2.48%	2.62%
2040	814,179	637,312	1,451,491	857,030	670,855	1,527,886	899,882	704,398	1,604,280	3.41%	2.59%	3.04%	3.41%	2.59%	3.04%	3.41%	2.59%	3.04%

Pronghorn	Peak Day - Baseload									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	985	5,797	6,782	1,037	6,102	7,139	1,089	6,407	7,496	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,026	6,102	7,128	1,080	6,423	7,503	1,134	6,745	7,878	4.14%	5.26%	5.10%	4.14%	5.26%	5.10%	4.14%	5.26%	5.10%
2023	1,064	6,410	7,474	1,120	6,747	7,867	1,176	7,085	8,261	3.74%	5.04%	4.86%	3.74%	5.04%	4.86%	3.74%	5.04%	4.86%
2024	1,104	6,798	7,903	1,162	7,156	8,318	1,220	7,514	8,734	3.77%	6.06%	5.73%	3.77%	6.06%	5.73%	3.77%	6.06%	5.73%
2025	1,142	7,109	8,251	1,202	7,483	8,686	1,262	7,858	9,130	3.45%	4.42%	4.25%	3.45%	4.42%	4.25%	3.45%	4.42%	4.25%
2026	1,180	7,333	8,513	1,242	7,719	8,961	1,304	8,105	9,409	3.32%	3.14%	3.17%	3.32%	3.14%	3.17%	3.32%	3.14%	3.17%
2027	1,221	7,637	8,858	1,285	8,039	9,324	1,349	8,441	9,791	3.45%	4.15%	4.06%	3.45%	4.15%	4.06%	3.45%	4.15%	4.06%
2028	1,270	7,936	9,205	1,337	8,353	9,690	1,403	8,771	10,174	4.00%	3.91%	3.92%	4.00%	3.91%	3.92%	4.00%	3.91%	3.92%
2029	1,305	8,246	9,550	1,373	8,680	10,053	1,442	9,114	10,556	2.75%	3.91%	3.75%	2.75%	3.91%	3.75%	2.75%	3.91%	3.75%
2030	1,339	8,656	9,995	1,410	9,112	10,521	1,480	9,567	11,047	2.65%	4.98%	4.66%	2.65%	4.98%	4.66%	2.65%	4.98%	4.66%
2031	1,377	8,966	10,343	1,449	9,438	10,888	1,522	9,910	11,432	2.80%	3.59%	3.48%	2.80%	3.59%	3.48%	2.80%	3.59%	3.48%
2032	1,427	9,160	10,587	1,502	9,642	11,144	1,577	10,124	11,701	3.62%	2.16%	2.36%	3.62%	2.16%	2.36%	3.62%	2.16%	2.36%
2033	1,468	9,464	10,932	1,545	9,962	11,507	1,622	10,460	12,082	2.88%	3.31%	3.26%	2.88%	3.31%	3.26%	2.88%	3.31%	3.26%
2034	1,505	9,771	11,276	1,585	10,285	11,870	1,664	10,799	12,463	2.56%	3.24%	3.15%	2.56%	3.24%	3.15%	2.56%	3.24%	3.15%
2035	1,539	10,082	11,621	1,620	10,612	12,232	1,701	11,143	12,844	2.24%	3.18%	3.05%	2.24%	3.18%	3.05%	2.24%	3.18%	3.05%
2036	1,583	10,504	12,087	1,666	11,057	12,723	1,749	11,610	13,359	2.83%	4.19%	4.01%	2.83%	4.19%	4.01%	2.83%	4.19%	4.01%
2037	1,620	10,692	12,312	1,705	11,255	12,960	1,790	11,817	13,608	2.35%	1.79%	1.86%	2.35%	1.79%	1.86%	2.35%	1.79%	1.86%
2038	1,661	10,995	12,656	1,748	11,574	13,322	1,836	12,152	13,988	2.53%	2.83%	2.80%	2.53%	2.83%	2.80%	2.53%	2.83%	2.80%
2039	1,702	11,298	13,000	1,792	11,893	13,684	1,881	12,487	14,368	2.48%	2.75%	2.72%	2.48%	2.75%	2.72%	2.48%	2.75%	2.72%
2040	1,746	11,600	13,346	1,838	12,211	14,049	1,930	12,821	14,751	2.59%	2.68%	2.67%	2.59%	2.68%	2.67%	2.59%	2.68%	2.67%

Pronghorn	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	425,160	335,151	760,311	447,537	352,790	800,327	469,914	370,430	840,344	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	456,447	339,986	796,432	480,470	357,880	838,350	504,494	375,774	880,267	7.36%	1.44%	4.75%	7.36%	1.44%	4.75%	7.36%	1.44%	4.75%
2023	487,745	344,790	832,535	513,416	362,936	876,353	539,087	381,083	920,170	6.86%	1.41%	4.53%	6.86%	1.41%	4.53%	6.86%	1.41%	4.53%
2024	521,706	350,939	872,645	549,165	369,409	918,574	576,623	387,880	964,503	6.96%	1.78%	4.82%	6.96%	1.78%	4.82%	6.96%	1.78%	4.82%
2025	550,229	354,374	904,703	579,294	373,025	952,319	608,259	391,676	999,935	5.49%	0.98%	3.67%	5.49%	0.98%	3.67%	5.49%	0.98%	3.67%
2026	581,540	359,177	940,716	612,147	378,081	990,228	642,754	395,985	1,039,739	5.67%	1.36%	3.98%	5.67%	1.36%	3.98%	5.67%	1.36%	3.98%
2027	612,738	363,980	976,718	644,988	383,137	1,028,124	677,237	402,293	1,079,530	5.36%	1.34%	3.83%	5.36%	1.34%	3.83%	5.36%	1.34%	3.83%
2028	647,433	370,309	1,017,741	681,508	389,798	1,071,306	715,583	409,288	1,124,872	5.66%	1.74%	4.20%	5.66%	1.74%	4.20%	5.66%	1.74%	4.20%
2029	675,237	373,598	1,048,834	710,776	393,261	1,104,036	746,314	412,924	1,159,238	4.29%	0.89%	3.06%	4.29%	0.89%	3.06%	4.29%	0.89%	3.06%
2030	706,400	378,401	1,084,801	743,579	398,316	1,141,895	780,758	418,232	1,198,990	4.62%	1.29%	3.43%	4.62%	1.29%	3.43%	4.62%	1.29%	3.43%
2031	737,556	383,204	1,120,759	776,374	403,372	1,179,747	815,193	423,541	1,238,734	4.41%	1.27%	3.31%	4.41%</					

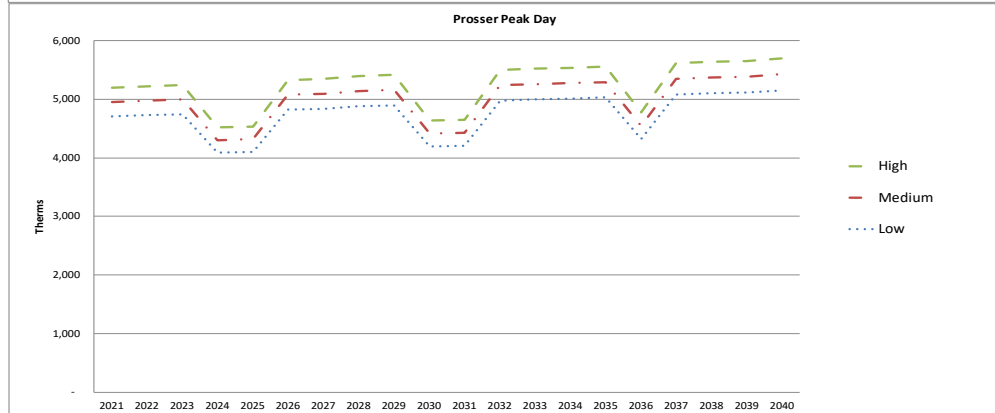
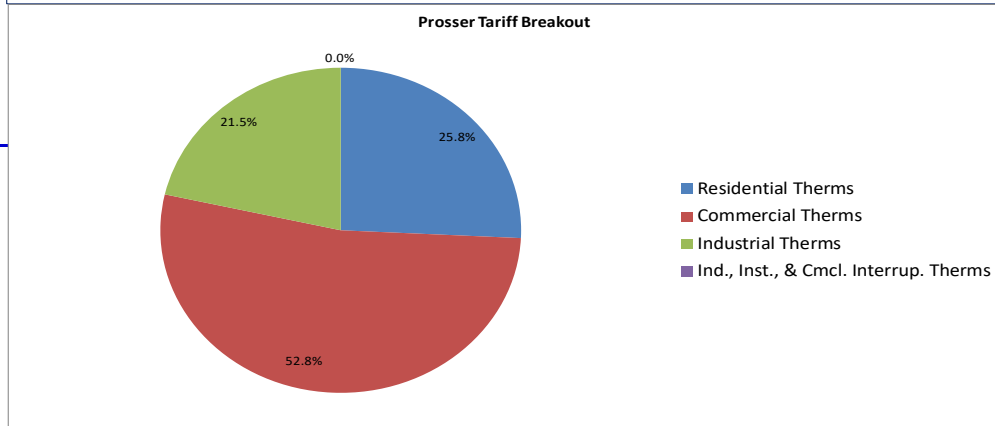
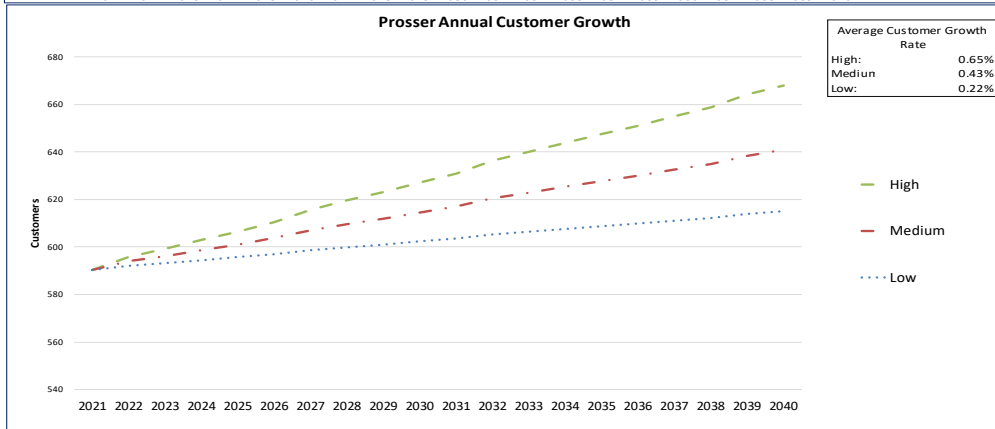
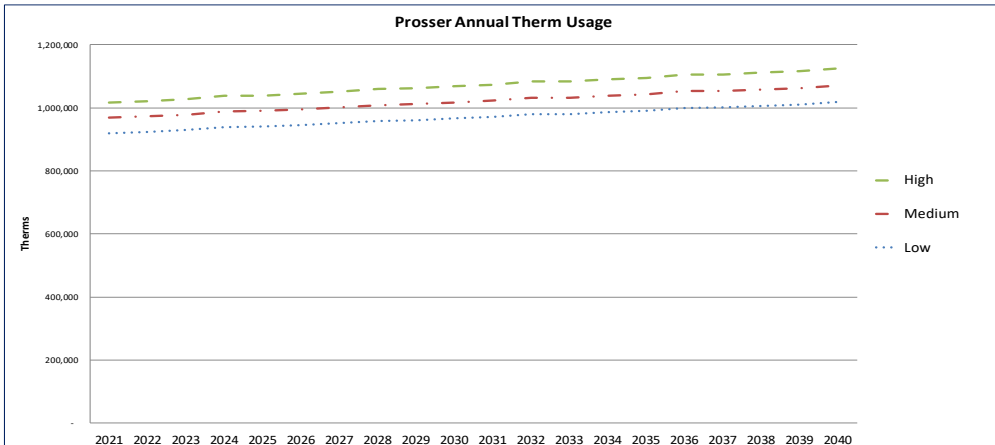


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Prosser																		
Annual Requirements (Therms)									Annual Change									
Low			Medium			High			Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	649,273	270,602	919,875	683,445	284,845	968,290	717,618	299,087	1,016,704	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	649,760	274,982	924,742	683,958	289,454	973,412	718,156	303,927	1,022,083	0.07%	1.62%	0.53%	0.08%	1.62%	0.53%	0.07%	1.62%	0.53%
2023	646,449	283,171	929,620	680,472	298,075	978,547	714,496	312,979	1,027,475	-0.51%	2.98%	0.53%	-0.51%	2.98%	0.53%	-0.51%	2.98%	0.53%
2024	667,796	271,226	939,022	702,943	285,502	988,444	738,090	299,777	1,037,866	3.30%	-4.22%	1.01%	3.30%	-4.22%	1.01%	3.30%	-4.22%	1.01%
2025	660,454	279,947	940,400	695,214	294,681	989,895	729,975	309,415	1,039,390	-1.10%	3.22%	0.15%	-1.10%	3.22%	0.15%	-1.10%	3.22%	0.15%
2026	658,263	287,425	945,688	692,908	302,553	995,461	727,554	317,681	1,045,234	-0.33%	2.67%	0.56%	-0.33%	2.67%	0.56%	-0.33%	2.67%	0.56%
2027	672,089	278,845	950,933	707,462	293,521	1,000,982	742,835	308,197	1,051,031	2.10%	-2.99%	0.55%	2.10%	-2.99%	0.55%	2.10%	-2.99%	0.55%
2028	662,796	295,712	958,508	697,680	311,275	1,008,956	732,564	326,839	1,050,404	-1.38%	6.05%	0.80%	-1.38%	6.05%	0.80%	-1.38%	6.05%	0.80%
2029	659,472	301,792	961,264	694,182	317,676	1,011,857	728,891	333,560	1,062,450	-0.50%	2.06%	0.29%	-0.50%	2.06%	0.29%	-0.50%	2.06%	0.29%
2030	687,792	278,716	966,507	723,991	293,385	1,017,376	760,191	308,054	1,068,245	4.29%	-7.65%	0.55%	4.29%	-7.65%	0.55%	4.29%	-7.65%	0.55%
2031	683,102	288,581	971,682	719,055	303,769	1,022,824	755,007	318,957	1,073,965	-0.68%	3.54%	0.54%	-0.68%	3.54%	0.54%	-0.68%	3.54%	0.54%
2032	691,128	289,474	980,602	727,503	304,710	1,032,213	763,878	319,945	1,083,823	1.17%	0.31%	0.92%	1.17%	0.31%	0.92%	1.17%	0.31%	0.92%
2033	687,211	293,679	980,890	723,380	309,136	1,032,516	759,549	324,593	1,084,142	-0.57%	1.45%	0.03%	-0.57%	1.45%	0.03%	-0.57%	1.45%	0.03%
2034	682,226	303,435	985,760	718,237	319,405	1,037,642	754,149	335,375	1,089,524	-0.71%	3.25%	0.50%	-0.71%	3.25%	0.50%	-0.71%	3.25%	0.50%
2035	680,817	310,515	991,332	716,650	326,858	1,043,507	752,482	343,201	1,095,683	-0.22%	2.33%	0.57%	-0.22%	2.33%	0.57%	-0.22%	2.33%	0.57%
2036	701,207	298,933	1,000,140	738,113	314,666	1,052,779	775,019	330,400	1,105,418	2.99%	-3.73%	0.89%	2.99%	-3.73%	0.89%	2.99%	-3.73%	0.89%
2037	694,128	306,748	1,000,877	730,661	322,893	1,053,554	767,194	339,038	1,106,232	-1.01%	2.61%	0.07%	-1.01%	2.61%	0.07%	-1.01%	2.61%	0.07%
2038	708,687	296,920	1,005,606	745,986	312,547	1,058,533	783,285	328,174	1,111,460	2.10%	-3.20%	0.47%	2.10%	-3.20%	0.47%	2.10%	-3.20%	0.47%
2039	708,517	301,083	1,009,600	745,807	316,930	1,062,737	783,097	332,777	1,115,874	-0.02%	1.40%	0.02%	-0.02%	1.40%	0.02%	-0.02%	1.40%	0.02%
2040	708,597	309,850	1,018,447	745,892	326,157	1,072,049	783,187	342,465	1,125,652	0.01%	2.91%	0.88%	0.01%	2.91%	0.88%	0.01%	2.91%	0.88%

Peak Day - BaseLoad																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	741	3,966	4,707	780	4,175	4,955	819	4,383	5,203	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	753	3,974	4,728	793	4,184	4,977	833	4,393	5,225	1.62%	0.22%	0.44%	1.62%	0.22%	0.44%	1.62%	0.22%
2023	766	3,970	4,745	817	4,178	4,995	857	4,387	5,245	2.98%	-0.12%	0.37%	2.98%	-0.12%	0.37%	2.98%	-0.12%
2024	743	3,344	4,087	782	3,520	4,302	821	3,696	4,517	-4.22%	-15.76%	-13.87%	-4.22%	-15.76%	-13.87%	-4.22%	-15.76%
2025	767	4,335	5,102	807	3,510	4,318	848	3,686	4,524	3.22%	-0.28%	0.28%	3.22%	-0.28%	0.28%	3.22%	-0.28%
2026	787	4,034	4,822	829	4,247	5,076	870	4,459	5,329	2.67%	20.98%	17.56%	2.67%	20.98%	17.56%	2.67%	20.98%
2027	764	4,077	4,841	804	4,292	5,096	844	4,506	5,351	-2.99%	1.06%	0.40%	-2.99%	1.06%	0.40%	-2.99%	1.06%
2028	810	4,071	4,881	853	4,285	5,138	895	4,499	5,395	6.05%	-0.15%	0.82%	6.05%	-0.15%	0.82%	6.05%	-0.15%
2029	827	4,073	4,900	870	4,287	5,157	914	4,501	5,415	2.06%	0.05%	0.38%	2.06%	0.05%	0.38%	2.06%	0.05%
2030	764	3,433	4,197	804	3,614	4,418	844	3,795	4,639	-7.65%	-15.70%	-14.34%	-7.65%	-15.70%	-14.34%	-7.65%	-15.70%
2031	791	3,421	4,212	832	3,601	4,433	874	3,781	4,655	3.54%	-0.36%	0.35%	3.54%	-0.36%	0.35%	3.54%	-0.36%
2032	793	4,184	4,977	835	4,404	5,239	877	4,624	5,501	0.31%	22.29%	18.17%	0.31%	22.29%	18.17%	0.31%	22.29%
2033	805	4,190	4,994	847	4,410	5,257	889	4,631	5,520	1.45%	0.14%	0.35%	1.45%	0.14%	0.35%	1.45%	0.14%
2034	831	4,190	5,011	875	4,400	5,275	919	4,620	5,539	3.32%	-0.22%	0.34%	3.32%	-0.23%	0.34%	3.32%	-0.23%
2035	851	4,178	5,038	896	4,397	5,293	940	4,617	5,558	2.33%	-0.06%	0.34%	2.33%	-0.06%	0.34%	2.33%	-0.06%
2036	819	3,503	4,322	862	3,688	4,550	905	3,872	4,777	-3.73%	-16.14%	-14.04%	-3.73%	-16.14%	-14.04%	-3.73%	-16.14%
2037	840	4,243	5,084	885	4,467	5,351	929	4,690	5,619	2.61%	21.12%	17.62%	2.61%	21.12%	17.62%	2.61%	21.12%
2038	813	4,287	5,100	856	4,512	5,369	899	4,738	5,637	-3.20%	1.02%	0.32%	-3.20%	1.02%	0.32%	-3.20%	1.02%
2039	825	4,292	5,117	868	4,518	5,386	912	4,743	5,655	1.40%	0.12%	0.32%	1.40%	0.12%	0.32%	1.40%	0.12%
2040	849	4,307	5,156	894	4,534	5,427	938	4,760	5,699	2.91%	0.36%	0.77%	2.91%	0.36%	0.77%	2.91%	0.36%

Therms Usage by Class																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	239,454	680,422	919,875	252,057	716,233	968,290	264,659	752,045	1,016,704	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	240,289	684,452	924,742	252,936	720,476	973,412	265,583	756,500	1,022,083	0.35%	0.59%	0.53%	0.35%	0.59%	0.53%	0.35%	0.59%
2023	241,195	688,425	929,620	253,890	724,657	978,547	266,584	760,890	1,027,475	0.38%	0.58%	0.53%	0.38%	0.58%	0.53%	0.38%	0.58%
2024	243,401	695,621	939,022	256,212	732,233	988,444	269,022	768,844	1,037,866	0.91%	1.05%	1.01%	0.91%	1.05%	1.01%	0.91%	1.05%
2025	243,215	697,185	940,400	256,016	733,879	989,895	268,817	770,573	1,039,390	-0.08%	0.22%	0.15%	-0.08%	0.22%	0.15%	-0.08%	0.22%
2026	244,180	701,508	945,688	257,032	738,429	995,461	269,883	775,351	1,045,234	0.40%	0.62%	0.56%	0.40%	0.62%	0.56%	0.40%	0.62%
2027	245,141	705,792	950,933	258,043	742,939	1,000,982	270,945	780,086	1,051,031	0.39%	0.61%	0.55%	0.39%	0.61%	0.55%	0.39%	0.61%
2028	246,914	711,594	958,508	259,910	749,064	1,008,956	272,905	786,498	1,050,404	0.72%	0.82%	0.80%	0.72%	0.82%	0.80%	0.72%	0.82%
2029	247,046	714,218	961,264	260,049	751,809	1,011,857	273,051	789,399	1,062,450	0.05%	0.37%	0.29%	0.05%	0.37%	0.29%	0.05%	0.37%
2030	248,011	718,496	966,507	261,064	756,312	1,017,376	274,118	794,127	1,068,245	0.39%	0.60%	0.55%	0.39%	0.60%	0.55%	0.39%	0.60%
2031	248,969	722,713	971,682	262,073	760,751	1,022,824	275,177	798,788	1,073,965	0.39%	0.59%	0.54%	0.39%	0.59%	0.54%	0.39%	0.59%
2032	251,070	729,532	980,602	264,284	767,929	1,032,213	277,498	806,325	1,083,823	0.84%	0.94%	0.92%	0.84%	0.94%	0.92%	0.84%	0.94%
2033	250,670	730,220	980,890	263,863	768,653	1,032,516	277,057	807,085	1,084,142	-0.16%	0.09%	0.03%	-0.16%	0.09%	0.03%	-0.16%	0.09%
2034	251,593	734,167	985,760	264,835	772,807	1,037,642	278,077	811,448	1,089,524	0.37%	0.54%	0.50%	0.37%	0.54%	0.50%	0.37%	0.54%
2035	252,678	738,654	991,332	265,977	777,530	1,043,507	279,276	816,407	1,095,683	0.43%	0.61%	0.57%	0.43%	0.61%	0.57%	0.43%	0.61%
2036	254,778	745,363	1,000,140	268,187	784,592	1,052,779	281,596	823,822	1,105,418	0.83%	0.91%	0.89%	0.83%	0.91%	0.89%	0.83%	0.91%
2037	254,506	746,371	1,000,877	267,901	785,654	1,053,554	281,296	824,936	1,106,232	-0.11%	0.14%	0.07%	-0.11%	0.14%	0.07%	-0.11%	0.14%
2038	255,417	750,190	1,005,606	268,859	789,673	1,058,533	282,302	829,157	1,111,460	0.36%	0.51%	0.47%	0.36%	0.51%	0.47%	0.36%	0.51%
2039	256,163	753,437	1,009,600	269,645	793,092	1,062,737	283,127	832,747	1,115,874	0.29%	0.43%	0.40%	0.29%	0.43%	0.40%	0.29%	



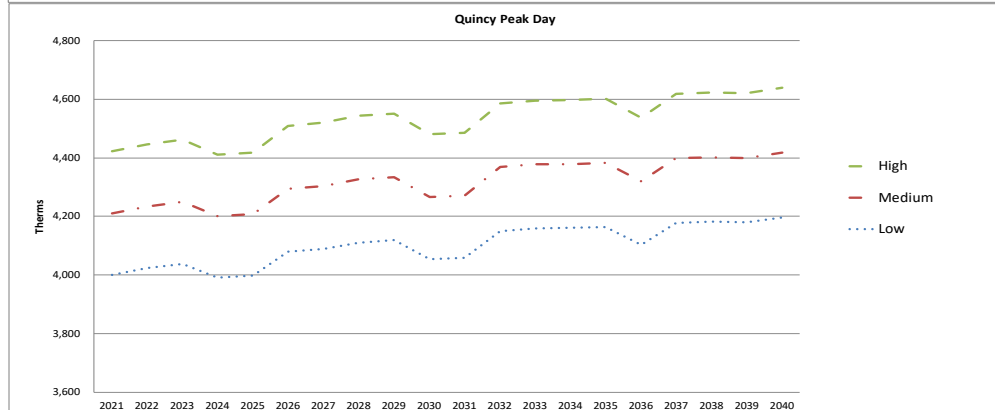
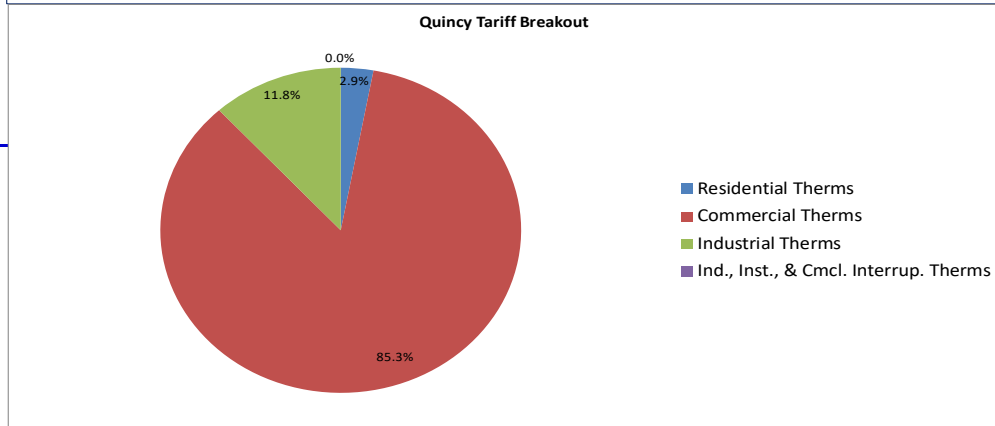
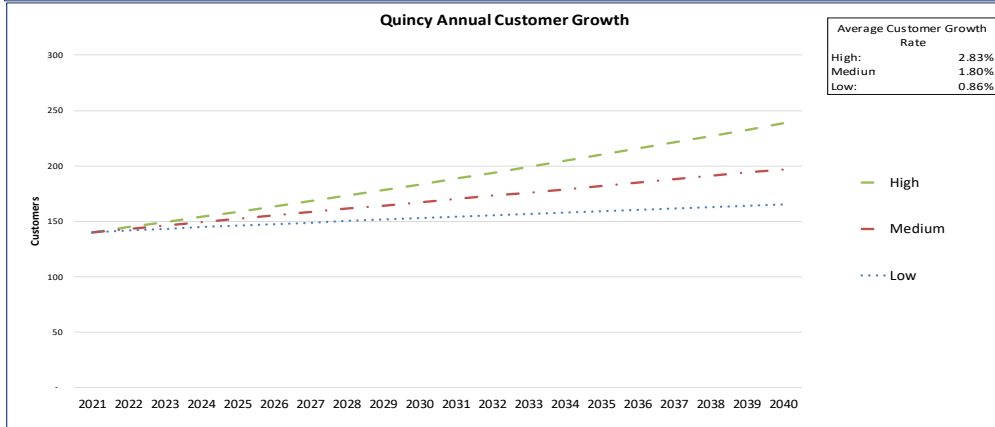
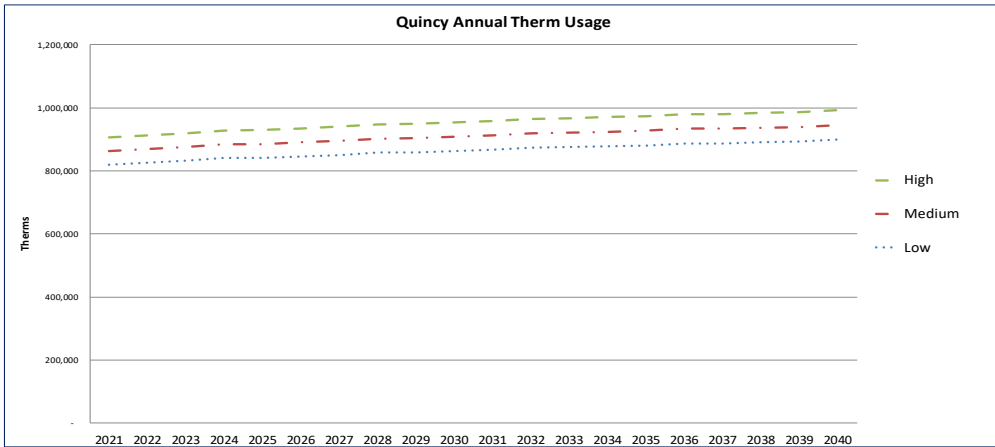
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Quincy																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	368,368	451,670	820,038	387,756	475,442	863,198	407,144	499,214	906,358	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	369,729	457,106	826,836	389,189	481,165	870,353	408,648	505,223	913,871	0.37%	1.20%	0.83%	0.37%	1.20%	0.83%	0.37%	1.20%
2023	363,839	468,359	832,199	382,989	493,010	875,999	402,138	517,660	919,799	-1.59%	2.46%	0.65%	-1.59%	2.46%	0.65%	-1.59%	2.46%
2024	369,176	471,417	840,593	388,606	496,229	884,835	408,036	521,040	929,076	0.65%	1.01%	1.47%	0.65%	1.01%	1.47%	0.65%	1.01%
2025	366,028	475,298	841,326	385,293	500,313	885,606	404,557	525,239	929,886	-0.85%	0.82%	0.09%	-0.85%	0.82%	0.09%	-0.85%	0.82%
2026	367,566	478,747	846,313	386,911	503,945	890,856	406,257	529,142	935,399	0.42%	0.73%	0.59%	0.42%	0.73%	0.59%	0.42%	0.73%
2027	371,833	478,903	850,736	391,403	504,108	895,512	410,973	529,314	940,287	1.16%	0.03%	0.52%	1.16%	0.03%	0.52%	1.16%	0.03%
2028	370,922	486,971	857,892	390,444	512,601	903,045	409,966	538,231	948,197	-0.25%	1.68%	0.84%	-0.25%	1.68%	0.84%	-0.25%	1.68%
2029	366,984	492,245	859,229	386,299	518,152	904,451	405,614	540,660	949,674	-1.06%	1.08%	0.16%	-1.06%	1.08%	0.16%	-1.06%	1.08%
2030	367,453	495,855	863,309	386,793	521,953	908,746	406,133	548,051	954,183	0.13%	0.73%	0.47%	0.13%	0.73%	0.47%	0.13%	0.73%
2031	367,083	499,897	866,979	386,403	526,207	912,610	405,723	552,517	958,240	-0.10%	0.81%	0.43%	-0.10%	0.81%	0.43%	-0.10%	0.81%
2032	377,348	496,429	873,777	397,209	522,557	919,765	417,069	548,684	965,754	2.80%	-0.69%	0.78%	2.80%	-0.69%	0.78%	2.80%	-0.69%
2033	374,579	500,444	875,022	394,293	526,783	921,076	414,008	553,122	967,130	-0.73%	0.81%	0.14%	-0.73%	0.81%	0.14%	-0.73%	0.81%
2034	367,769	510,204	877,973	387,125	537,057	924,183	406,482	569,910	970,392	-1.82%	1.95%	0.34%	-1.82%	1.95%	0.34%	-1.82%	1.95%
2035	366,281	515,060	881,341	385,559	542,168	927,727	404,836	569,277	974,113	-0.40%	0.95%	0.38%	-0.40%	0.95%	0.38%	-0.40%	0.95%
2036	371,190	515,062	887,252	390,727	543,223	933,949	410,363	570,384	980,817	1.34%	0.19%	0.67%	1.34%	0.19%	0.67%	1.34%	0.19%
2037	368,617	518,239	886,856	388,018	545,515	933,533	407,419	572,790	980,209	-0.69%	0.42%	-0.04%	-0.69%	0.42%	-0.04%	-0.69%	0.42%
2038	372,591	517,747	890,338	392,201	544,997	937,198	411,811	572,247	984,058	1.08%	-0.09%	0.39%	1.08%	-0.09%	0.39%	1.08%	-0.09%
2039	372,143	520,508	892,651	391,729	547,903	939,632	411,316	575,298	986,614	-0.12%	0.53%	0.26%	-0.12%	0.53%	0.26%	-0.12%	0.53%
2040	369,679	529,118	898,797	389,135	556,967	946,102	408,592	584,815	993,407	-0.66%	1.65%	0.69%	-0.66%	1.65%	0.69%	-0.66%	1.65%

Peak Day - BaseLoad																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	1,237	2,763	4,001	1,303	2,909	4,211	1,368	3,054	4,422	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,252	2,770	4,023	1,318	2,916	4,234	1,384	3,062	4,446	1.20%	0.26%	0.55%	1.20%	0.26%	0.55%	1.20%	0.26%
2023	1,283	2,754	4,037	1,351	2,899	4,249	1,418	3,043	4,462	2.46%	-0.60%	0.35%	2.46%	-0.60%	0.35%	2.46%	-0.60%
2024	1,292	2,700	3,992	1,360	2,842	4,202	1,428	2,994	4,412	0.65%	-1.94%	-1.12%	0.65%	-1.94%	-1.12%	0.65%	-1.94%
2025	1,302	2,696	3,988	1,371	2,837	4,208	1,439	2,979	4,419	-0.82%	-0.17%	0.13%	-0.82%	-0.17%	0.13%	-0.82%	-0.17%
2026	1,312	2,769	4,088	1,381	2,914	4,295	1,450	3,060	4,510	0.73%	2.71%	2.06%	0.73%	2.71%	2.06%	0.73%	2.71%
2027	1,312	2,777	4,089	1,381	2,923	4,304	1,450	3,070	4,520	0.03%	0.31%	0.22%	0.03%	0.31%	0.22%	0.03%	0.31%
2028	1,334	2,776	4,110	1,404	2,922	4,327	1,475	3,068	4,543	1.68%	-0.04%	0.52%	1.68%	-0.04%	0.52%	1.68%	-0.04%
2029	1,349	2,770	4,118	1,420	2,915	4,335	1,491	3,061	4,552	1.08%	-0.23%	0.19%	1.08%	-0.23%	0.19%	1.08%	-0.23%
2030	1,359	2,695	4,054	1,430	2,837	4,267	1,502	2,979	4,481	0.73%	-2.68%	-1.56%	0.73%	-2.68%	-1.56%	0.73%	-2.68%
2031	1,370	2,689	4,058	1,442	2,830	4,272	1,514	2,972	4,486	0.81%	-0.24%	0.11%	0.81%	-0.24%	0.11%	0.81%	-0.24%
2032	1,360	2,790	4,150	1,432	2,937	4,368	1,503	3,073	4,587	-0.69%	3.75%	2.25%	-0.69%	3.75%	2.25%	-0.69%	3.75%
2033	1,371	2,787	4,159	1,443	2,934	4,377	1,515	3,074	4,596	0.81%	-0.08%	0.21%	0.81%	-0.08%	0.21%	0.81%	-0.08%
2034	1,398	2,762	4,160	1,471	2,908	4,379	1,545	3,053	4,598	1.95%	-0.30%	0.04%	1.95%	-0.30%	0.04%	1.95%	-0.30%
2035	1,411	2,752	4,163	1,485	2,897	4,382	1,560	3,041	4,601	0.95%	-0.39%	0.06%	0.95%	-0.39%	0.06%	0.95%	-0.39%
2036	1,414	2,690	4,104	1,488	2,832	4,320	1,563	2,973	4,536	0.19%	-2.24%	-1.42%	0.19%	-2.24%	-1.42%	0.19%	-2.24%
2037	1,420	2,759	4,178	1,495	2,904	4,398	1,569	3,049	4,618	0.42%	2.54%	1.81%	0.42%	2.54%	1.81%	0.42%	2.54%
2038	1,418	2,763	4,182	1,493	2,909	4,402	1,568	3,054	4,622	-0.09%	0.18%	0.08%	-0.09%	0.18%	0.08%	-0.09%	0.18%
2039	1,426	2,754	4,180	1,501	2,899	4,400	1,576	3,044	4,620	0.53%	-0.33%	-0.04%	0.53%	-0.33%	-0.04%	0.53%	-0.33%
2040	1,450	2,747	4,197	1,526	2,892	4,418	1,602	3,036	4,638	1.65%	-0.26%	0.39%	1.65%	-0.26%	0.39%	1.65%	-0.26%

Therms Usage by Class																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	24,010	796,028	820,038	25,274	837,924	863,198	26,538	879,820	906,358	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	24,165	802,617	826,836	25,437	844,917	870,353	26,708	887,162	913,871	0.64%	0.83%	0.83%	0.64%	0.83%	0.83%	0.64%	0.83%
2023	24,305	807,893	832,199	25,585	850,414	875,999	26,864	892,935	919,799	0.58%	0.65%	0.65%	0.58%	0.65%	0.65%	0.58%	0.65%
2024	24,552	816,041	840,593	25,844	858,991	884,835	27,136	901,941	929,076	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%
2025	24,562	816,764	841,326	25,855	859,751	885,606	27,148	902,739	929,886	0.04%	0.09%	0.09%	0.04%	0.09%	0.09%	0.04%	0.09%
2026	24,698	821,615	846,313	25,998	864,858	890,856	27,398	908,101	935,399	0.95%	0.59%	0.55%	0.95%	0.59%	0.55%	0.95%	0.59%
2027	24,827	825,909	850,736	26,134	869,377	895,512	27,441	912,846	940,287	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%
2028	25,053	832,840	857,892	26,371	876,673	903,045	27,690	920,507	948,197	0.91%	0.84%	0.84%	0.91%	0.84%	0.84%	0.91%	0.84%
2029	25,076	834,153	859,229	26,396	878,055	904,451	27,716	921,958	949,674	0.09%	0.16%	0.16%	0.09%	0.16%	0.16%	0.09%	0.16%
2030	25,196	838,113	863,309	26,522	882,224	908,746	27,848	926,336	954,183	0.48%	0.47%	0.47%	0.48%	0.47%	0.47%	0.48%	0.47%
2031	25,316	841,663	866,979	26,648	885,961	912,610	27,981	930,259	958,240	0.48%	0.42%	0.43%	0.48%	0.42%	0.43%	0.48%	0.42%
2032	25,540	848,237	873,777	26,884	892,881	919,765	28,228	937,525	965,754	0.88%	0.78%	0.78%	0.88%	0.78%	0.78%	0.88%	0.78%
2033	25,559	849,464	875,022	26,904	894,172	921,076	28,249	938,881	967,130	0.07%	0.14%	0.14%	0.07%	0.14%	0.14%	0.07%	0.14%
2034	25,665	852,309	877,973	27,016	897,167	924,183	28,366	942,025	970,392	0.42%	0.33%	0.34%	0.42%	0.33%	0.34%	0.42%	0.33%
2035	25,782	855,558	881,341	27,139	900,588	927,727	28,496	945,617	974,113	0.46%	0.38%	0.38%	0.46%	0.38%	0.38%	0.46%	0.38%
2036	25,997	861,255	887,252	27,365	906,584	933,549	28,733	951,914	980,647	0.83%	0.67%	0.67%	0.83%	0.67%	0.67%	0.83%	0.67%
2037	25,990	860,866	886,856	27,358	906,175	933,533	28,726	951,484	980,209	-0.03%	-0.05%	-0.04%	-0.03%	-0.05%	-0.04%	-0.03%	-0.05%
2038	26,108	864,230	890,338	27,482	909,716	937,198	28,856	955,202	984,058	0.45%	0.39%	0.39%	0.45%	0.39%	0.39%	0.45%	0.39%
2039	26,206	866,445	892,651	27,585	912,047	939,632	28,964	957,650	986,614	0.38%	0.26%	0.26%	0.38%	0.26%	0.26%	0.38%	0.26%
2040	26,424	872,373	898,797	27,815	918,287	946,102	29,206	964,201	993,407	0.83%	0.68%	0.69%	0.83%	0.68%	0.69%	0.83%	0.68%

Customer Count Forecast																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High											

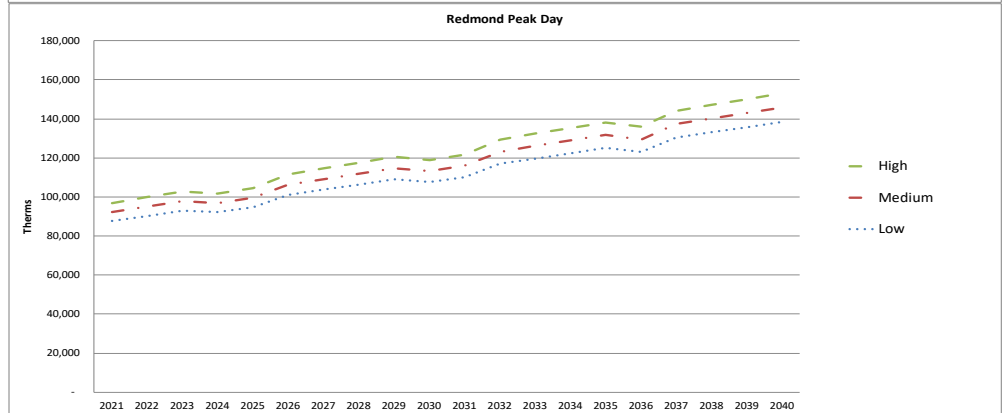
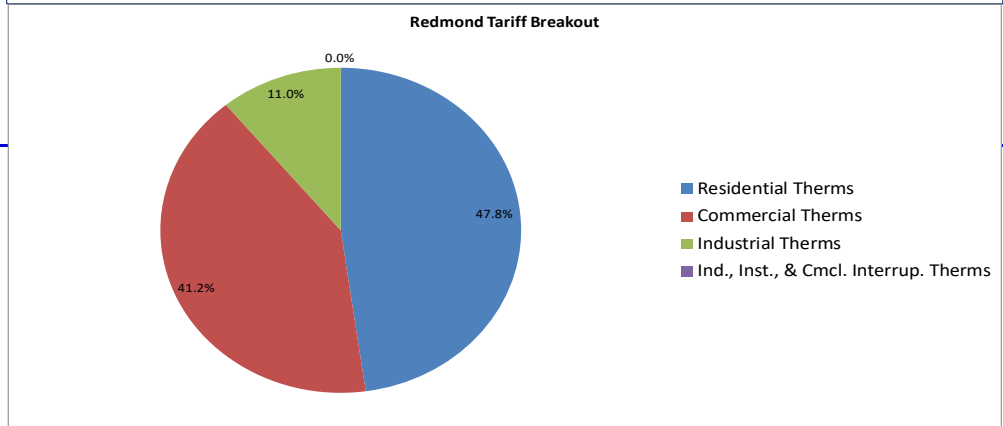
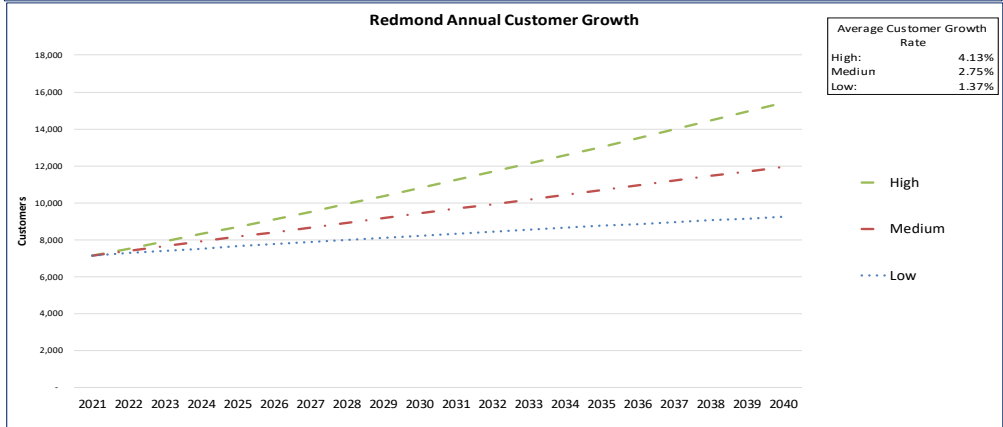
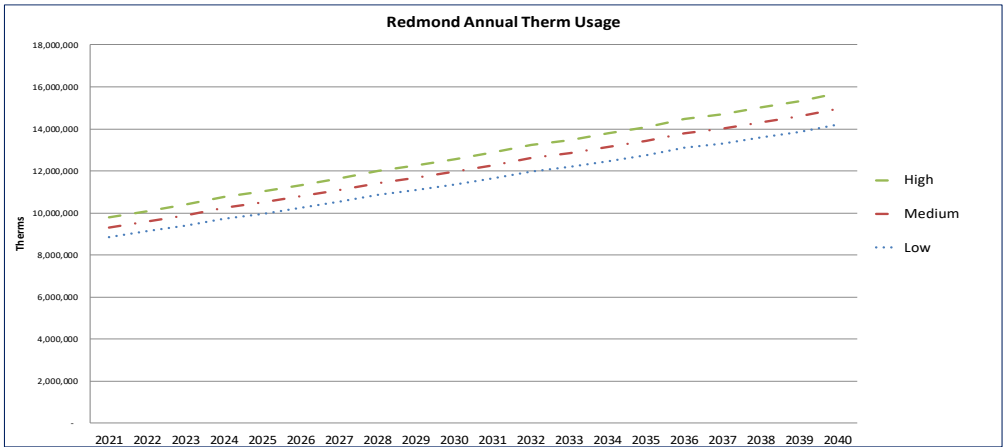


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Redmond																										
Annual Requirements (Therms)												Annual Change														
Low			Medium			High			Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total			
2021	6,375,617	2,479,066	8,854,683	6,754,952	2,565,767	9,320,719	7,550,294	2,236,462	9,786,755	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	6,554,289	2,577,159	9,131,448	6,944,381	2,667,670	9,612,051	7,773,631	2,319,023	10,092,653	2.80%	3.96%	3.13%	2.80%	3.97%	3.13%	2.96%	3.13%	2.96%	3.13%	2.96%	3.13%	2.96%	3.13%			
2023	6,748,305	2,660,874	9,409,179	7,149,217	2,755,181	9,904,399	8,016,825	2,382,794	10,399,619	2.96%	3.25%	3.04%	2.80%	3.97%	3.13%	2.96%	3.13%	2.96%	3.13%	2.96%	3.13%	2.96%	3.13%			
2024	7,005,465	2,737,868	9,743,333	7,420,722	2,835,418	10,256,140	8,340,476	2,428,472	10,768,947	3.81%	2.89%	3.55%	3.80%	2.91%	3.55%	4.04%	3.13%	3.55%	4.04%	3.13%	3.55%	4.04%	3.13%			
2025	7,188,055	2,781,763	9,969,819	7,612,782	2,881,814	10,494,596	8,570,664	2,448,609	11,019,274	2.61%	1.60%	2.32%	2.59%	1.64%	2.32%	2.76%	2.83%	2.76%	2.83%	2.76%	2.83%	2.76%	2.83%			
2026	7,389,554	2,858,512	10,248,066	7,820,442	2,966,995	10,787,437	8,817,189	2,509,620	11,326,809	2.80%	2.76%	2.79%	2.73%	2.96%	2.79%	2.88%	2.49%	2.88%	2.49%	2.88%	2.49%	2.88%	2.49%			
2027	7,550,069	2,976,291	10,526,360	7,991,161	3,089,218	11,080,379	9,019,750	2,614,648	11,634,398	2.17%	1.12%	2.72%	2.18%	2.72%	2.18%	2.72%	2.30%	2.18%	2.72%	2.30%	2.18%	2.72%	2.30%			
2028	7,773,253	3,082,181	10,855,435	8,228,250	3,198,524	11,426,773	9,293,637	2,704,474	11,998,112	2.96%	3.56%	3.13%	2.96%	3.13%	3.54%	3.13%	3.04%	3.44%	3.13%	3.04%	3.44%	3.13%	3.04%			
2029	7,995,300	3,188,692	11,083,992	8,357,009	3,310,351	11,667,360	9,462,190	2,788,538	12,250,727	1.57%	3.46%	2.11%	1.56%	3.50%	2.11%	1.81%	3.11%	2.11%	1.81%	3.11%	2.11%	1.81%				
2030	8,126,664	3,235,767	11,362,431	8,600,838	3,359,615	11,960,453	9,751,880	2,806,596	12,558,476	2.93%	1.48%	2.51%	2.92%	1.49%	2.51%	3.06%	0.65%	2.51%	3.06%	0.65%	2.51%	3.06%				
2031	8,367,379	3,273,521	11,640,900	8,854,075	3,399,504	12,253,579	10,046,037	2,820,221	12,866,258	2.96%	1.17%	2.45%	2.94%	1.19%	2.45%	3.02%	0.49%	2.45%	3.02%	0.49%	2.45%	3.02%				
2032	8,585,076	3,398,889	11,983,966	9,080,727	3,533,974	12,614,700	10,308,514	2,936,922	13,245,436	2.60%	3.83%	2.95%	2.56%	3.96%	2.95%	2.61%	4.14%	2.95%	2.61%	4.14%	2.95%	2.61%				
2033	8,694,720	3,499,836	12,194,556	9,197,494	3,638,880	12,836,374	10,452,641	3,025,552	13,478,193	1.28%	2.97%	1.76%	1.29%	2.97%	1.76%	2.40%	3.02%	1.76%	2.40%	3.02%	1.76%	2.40%				
2034	8,899,633	3,583,249	12,472,882	9,403,293	3,726,056	13,129,350	10,696,344	3,089,474	13,785,817	2.24%	2.38%	2.28%	2.24%	2.40%	2.28%	2.43%	2.11%	2.28%	2.43%	2.11%	2.28%	2.43%				
2035	9,063,345	3,692,562	12,755,907	9,586,437	3,840,834	13,427,271	10,923,124	3,175,510	14,098,635	1.95%	3.05%	2.27%	1.95%	3.08%	2.27%	2.13%	2.78%	2.27%	2.13%	2.78%	2.27%	2.13%				
2036	9,412,142	3,692,846	13,104,987	9,953,900	3,840,823	13,794,723	11,346,688	3,137,772	14,484,459	3.85%	0.01%	2.74%	3.83%	0.00%	2.74%	3.83%	-1.19%	2.74%	3.83%	-1.19%	2.74%	3.83%				
2037	9,545,155	3,769,106	13,314,261	10,089,525	3,925,487	14,015,011	11,517,127	3,198,534	14,715,762	1.41%	2.07%	1.60%	1.36%	2.20%	1.60%	1.50%	1.94%	1.60%	1.50%	1.94%	1.60%	1.50%				
2038	9,698,067	3,894,872	13,592,939	10,252,239	4,056,117	14,308,356	11,708,384	3,115,390	15,023,774	1.60%	3.34%	2.09%	1.61%	3.33%	2.09%	1.66%	3.65%	2.09%	1.66%	3.65%	2.09%	1.66%				
2039	9,866,062	4,000,542	13,866,604	10,430,429	4,165,996	14,596,425	11,915,379	3,430,867	15,326,247	1.73%	2.71%	2.01%	1.74%	2.71%	2.01%	1.77%	2.88%	2.01%	1.77%	2.88%	2.01%	1.77%				
2040	10,104,065	4,117,534	14,221,599	10,682,071	4,288,033	14,970,104	12,218,082	3,500,528	15,718,610	2.41%	2.92%	2.56%	2.41%	2.93%	2.56%	2.54%	2.63%	2.56%	2.54%	2.63%	2.56%	2.54%				

Peak Day - BaseLoad												Annual Change														
Low			Medium			High			Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2021	6,792	80,864	87,656	7,029	85,240	92,269	6,127	90,755	96,883	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
2022	7,061	83,256	90,317	7,309	87,762	95,071	6,353	93,471	99,824	3.96%	2.96%	3.04%	3.97%	2.96%	3.04%	3.69%	2.99%	3.04%	3.69%	2.99%	3.04%	3.69%				
2023	7,290	85,685	92,975	7,548	90,321	97,869	6,528	96,234	102,762	3.25%	2.92%	2.94%	3.28%	2.92%	2.94%	2.75%	2.96%	2.94%	2.75%	2.96%	2.94%	2.75%				
2024	7,501	86,614	94,115	7,768	89,195	96,963	6,653	95,158	101,811	2.89%	-1.25%	-0.93%	2.91%	-1.25%	-0.93%	1.92%	-1.12%	-0.93%	1.92%	-1.12%	-0.93%	1.92%				
2025	7,621	87,621	95,242	7,895	91,764	99,659	6,769	97,234	104,643	1.60%	2.89%	2.78%	1.60%	2.89%	2.78%	1.60%	2.89%	2.78%	1.60%	2.89%	2.78%	1.60%				
2026	7,832	93,161	100,993	8,129	98,179	106,308	6,876	104,748	111,624	2.76%	7.01%	6.67%	2.96%	6.99%	6.67%	2.49%	6.66%	6.67%	2.49%	6.66%	6.67%	2.49%				
2027	8,154	95,501	103,655	8,464	100,647	109,111	7,163	107,403	114,566	4.12%	2.51%	2.64%	4.12%	2.51%	2.64%	4.14%	2.53%	2.64%	4.14%	2.53%	2.64%	4.14%				
2028	8,444	97,908	106,353	8,763	103,187	111,950	7,410	110,138	117,548	3.56%	2.52%	2.60%	3.54%	2.52%	2.60%	3.44%	2.55%	2.60%	3.44%	2.55%	2.60%	3.44%				
2029	8,736	100,281	109,017	9,069	105,686	114,755	7,640	112,853	120,493	3.46%	2.42%	2.51%	3.50%	2.42%	2.51%	3.11%	2.46%	2.51%	3.11%	2.46%	2.51%	3.11%				
2030	8,865	98,661	107,527	9,204	103,981	113,186	7,689	111,156	118,845	1.48%	-1.62%	-1.37%	1.49%	-1.61%	-1.37%	0.65%	-1.50%	-1.37%	0.65%	-1.50%	-1.37%	0.65%				
2031	8,969	101,122	110,091	9,314	106,571	115,885	7,727	113,952	121,679	1.17%	2.49%	2.38%	1.19%	2.49%	2.38%	0.49%	2.52%	2.38%	0.49%	2.52%	2.38%	0.49%				
2032	9,312	107,735	117,047	9,682	113,525	123,207	8,046	121,321	129,367	3.83%	6.54%	6.32%	3.96%	6.53%	6.32%	4.14%	6.47%	6.32%	4.14%	6.47%	6.32%	4.14%				
2033	9,589	110,124	119,712	9,970	116,043	126,013	8,289	124,024	132,313	2.97%	2.22%	2.28%	2.97%	2.22%	2.28%	3.02%	2.23%	2.28%	3.02%	2.23%	2.28%	3.02%				
2034	9,817	112,560	122,377	10,208	118,610	128,818	8,464	126,795	135,259	2.38%	2.21%	2.23%	2.40%	2.21%	2.23%	2.12%	2.23%	2.23%	2.12%	2.23%	2.23%	2.12%				
2035	10,117	114,926	125,042	10,523	121,101	131,624	8,700	129,505	138,205	3.05%	2.10%	2.18%	3.08%	2.10%	2.18%	2.78%	2.14%	2.18%	2.78%	2.14%	2.18%	2.78%				
2036	10,117	112,870	122,987	10,523	118,937	129,460	8,597	127,336	135,933	0.01%	-1.79%	-1.64%	0.00%	-1.79%	-1.64%	-1.19%	-1.67%	-1.64%	-1.19%	-1.67%	-1.64%	-1.19%				
2037	10,326	120,086	130,412	10,755	126,521	137,276	8,763	135,376	144,140	2.07%	6.39%	6.04%	2.20%	6.38%	6.04%	1.94%	6.31%	6.04%	1.94%	6.31%	6.04%	1.94%				
2038	10,671	122,408	133,079	11,113	128,970	140,083	9,083	138,094	147,087	3.34%	1.93%	2.04%	3.33%	1.94%	2.04%	3.65%	1.94%	2.04%	3.65%	1.94%	2.04%	3.65%				
2039	10,960	124,785	135,746	11,414	131,476	142,890	9,345	140,600	150,035	2.71%	1.94%	2.00%	2.71%	1.94%	2.00%	2.85%	2.00%	2.71%	2.85%	2.00%	2.71%	2.85%				
2040	11,281	127,171	138,452	11,748	133,991	145,739	9,590	143,435	153,026	2.92%	1.91%	1.99%	2.93%	1.91%	1.99%	2.63%	1.95%	1.99%	2.63%	1.95%	1.99%	2.63%				

Therms Usage by Class												Annual Change														
Low			Medium			High			Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total			
2021	4,266,106	4,588,577	8,854,683	4,490,638	4,830,081	9,320,719	4,715,169	5,071,586	9,786,755	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
2022	4,426,075	4,705,373	9,131,448	4,659,027	4,953,024	9,612,051	4,891,978	5,200,675	10,092,653	3.75%	2.55%	3.13%	3.75%	2.55%	3.13%	3.75%	2.55%	3.13%	3.75%	2.55%	3.13%	3.75%				
2023	4,587,002	4,822,176	9,409,179	4,828,424	5,075,975	9,904,399	5,069,845	5,329,774	10,399,619	3.64%	2.48%	3.04%	3.64%	2.48%	3.04%	3.64%	2.48%	3.04%	3.64%	2.48%	3.04%	3.64%				
2024	4,776,254	4,967,079	9,743,333	5,027,636	5,228,504	10,256,140	5,279,018	5,489,930	10,768,947	4.13%	3.00%	3.55%	4.13%	3.00%	3.55%	4.14%	3.00%	3.55%	4.14%	3.00%	3.55%	4.14%				
2025	4,911,617	5,056,202	9,969,819	5,170,123	5,324,423	10,494,596	5,428,629	5,590,644	11,019,274	2.83%	1.83%	2.32%	2.83%	1.83%	2.32%											



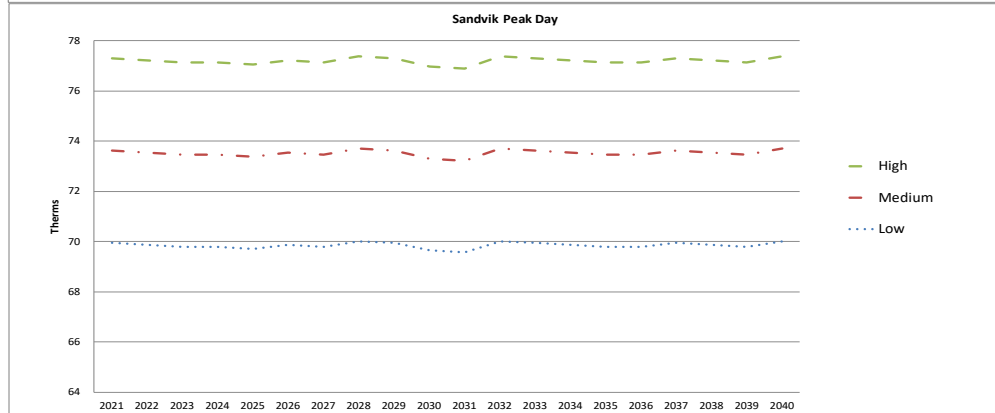
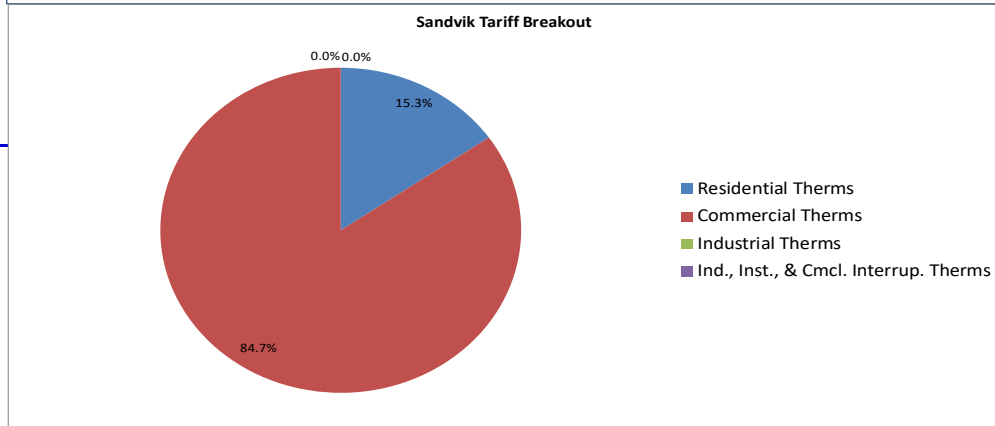
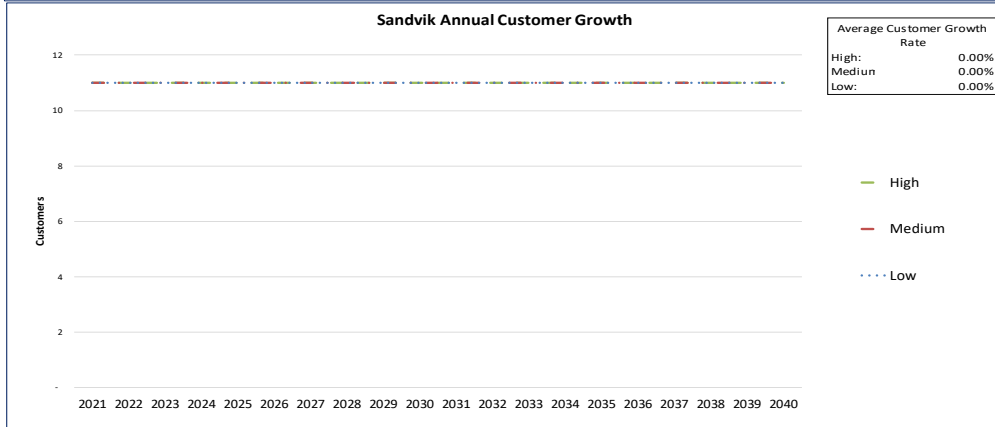
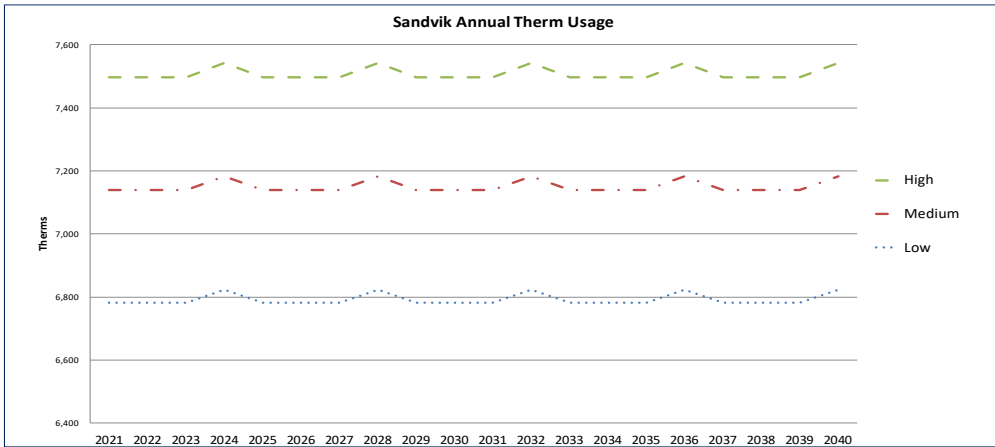
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Sandvik																	
Annual Requirements (Therms)																	
Low			Medium			High			Annual Change								
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Low Heating	Low BaseLoad	Low Total	Medium Heating	Medium BaseLoad	Medium Total	High Heating	High BaseLoad	High Total
2021	6,583	200	6,783	6,930	210	7,140	7,276	221	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,587	196	6,783	6,933	206	7,140	7,280	217	7,497	0.05%	-1.76%	0.00%	0.05%	-1.76%	0.00%	0.05%	-1.76%
2023	6,618	164	6,783	6,967	173	7,140	7,315	182	7,497	0.48%	-16.21%	0.00%	0.48%	-16.21%	0.00%	0.48%	-16.21%
2024	6,666	158	6,824	7,017	167	7,183	7,367	175	7,542	0.72%	-3.65%	0.61%	0.72%	-3.65%	0.61%	0.72%	-3.65%
2025	6,583	200	6,783	6,930	210	7,140	7,276	221	7,497	-1.24%	26.09%	-0.60%	-1.24%	26.09%	-0.60%	-1.24%	26.09%
2026	6,587	196	6,783	6,933	206	7,140	7,280	217	7,497	0.05%	-1.76%	0.00%	0.05%	-1.76%	0.00%	0.05%	-1.76%
2027	6,590	193	6,783	6,937	203	7,140	7,284	213	7,497	0.05%	-1.74%	0.00%	0.05%	-1.74%	0.00%	0.05%	-1.74%
2028	6,648	176	6,824	6,998	185	7,183	7,348	194	7,542	0.87%	-8.75%	0.60%	0.87%	-8.75%	0.60%	0.87%	-8.75%
2029	6,600	183	6,783	6,947	192	7,140	7,295	202	7,497	-0.72%	3.97%	-0.60%	-0.72%	3.97%	-0.60%	-0.72%	3.97%
2030	6,631	152	6,783	6,980	160	7,140	7,329	168	7,497	0.47%	-17.04%	0.00%	0.47%	-17.04%	0.00%	0.47%	-17.04%
2031	6,590	193	6,783	6,937	203	7,140	7,284	213	7,497	-0.62%	27.04%	0.00%	-0.62%	27.04%	0.00%	-0.62%	27.04%
2032	6,621	203	6,824	6,969	214	7,183	7,318	225	7,542	0.46%	5.48%	0.61%	0.46%	5.48%	0.61%	0.46%	5.48%
2033	6,583	200	6,783	6,930	210	7,140	7,276	221	7,497	-0.57%	-1.79%	-0.61%	-0.57%	-1.79%	-0.61%	-0.57%	-1.79%
2034	6,615	168	6,783	6,963	177	7,140	7,311	186	7,497	0.48%	-15.82%	0.00%	0.48%	-15.82%	0.00%	0.48%	-15.82%
2035	6,607	176	6,783	6,955	185	7,140	7,302	195	7,497	-0.12%	4.78%	0.00%	-0.12%	4.78%	0.00%	-0.12%	4.78%
2036	6,621	203	6,824	6,969	214	7,183	7,318	225	7,542	0.21%	15.44%	0.61%	0.21%	15.44%	0.61%	0.21%	15.44%
2037	6,583	200	6,783	6,930	210	7,140	7,276	221	7,497	-0.57%	-1.79%	-0.60%	-0.57%	-1.79%	-0.60%	-0.57%	-1.79%
2038	6,587	196	6,783	6,933	206	7,140	7,280	217	7,497	0.05%	-1.76%	0.00%	0.05%	-1.76%	0.00%	0.05%	-1.76%
2039	6,590	193	6,783	6,937	203	7,140	7,284	213	7,497	0.05%	-1.74%	0.00%	0.05%	-1.74%	0.00%	0.05%	-1.74%
2040	6,672	152	6,824	7,023	160	7,183	7,374	168	7,542	1.24%	-20.93%	0.61%	1.24%	-20.93%	0.61%	1.24%	-20.93%

Peak Day - BaseLoad																	
Low			Medium			High			Annual Change								
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	1	69	70	1	73	74	1	77	77	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1	69	70	1	73	74	1	77	77	-1.76%	-0.10%	-0.11%	-1.76%	-0.10%	-0.11%	-1.76%	-0.10%
2023	0	69	70	0	73	73	0	77	77	-16.21%	0.01%	-0.11%	-16.21%	0.01%	-0.11%	-16.21%	0.01%
2024	0	69	70	0	73	73	0	77	77	-3.65%	0.04%	0.01%	-3.65%	0.04%	0.01%	-3.65%	0.04%
2025	1	69	70	1	73	74	1	77	77	26.09%	0.27%	-0.11%	26.09%	0.27%	-0.11%	26.09%	0.27%
2026	1	69	70	1	73	74	1	77	77	-1.76%	0.22%	0.21%	-1.76%	0.22%	0.21%	-1.76%	0.22%
2027	1	69	70	1	73	73	1	77	77	-1.74%	-0.10%	-0.11%	-1.74%	-0.10%	-0.11%	-1.74%	-0.10%
2028	0	70	70	1	73	74	1	77	77	-8.75%	0.40%	0.33%	-8.75%	0.40%	0.33%	-8.75%	0.40%
2029	1	69	70	1	73	74	1	77	77	3.97%	-0.14%	-0.11%	3.97%	-0.14%	-0.11%	3.97%	-0.14%
2030	0	69	70	0	73	73	0	77	77	-17.04%	-0.31%	-0.43%	-17.04%	-0.31%	-0.43%	-17.04%	-0.31%
2031	1	69	70	1	73	73	1	76	77	27.04%	-0.27%	-0.11%	27.04%	-0.27%	-0.11%	27.04%	-0.27%
2032	1	69	70	1	73	74	1	77	77	5.48%	0.61%	0.65%	5.48%	0.61%	0.65%	5.48%	0.61%
2033	1	69	70	1	73	74	1	77	77	-1.79%	-0.10%	-0.11%	-1.79%	-0.10%	-0.11%	-1.79%	-0.10%
2034	0	69	70	0	73	74	1	77	77	-15.82%	0.01%	-0.11%	-15.82%	0.01%	-0.11%	-15.82%	0.01%
2035	0	69	70	0	73	74	1	77	77	4.78%	-0.14%	-0.11%	4.78%	-0.14%	-0.11%	4.78%	-0.14%
2036	1	69	70	1	73	73	1	77	77	15.44%	-0.09%	0.01%	15.44%	-0.09%	0.01%	15.44%	-0.09%
2037	1	69	70	1	73	74	1	77	77	-1.79%	0.22%	0.21%	-1.79%	0.22%	0.21%	-1.79%	0.22%
2038	1	69	70	1	73	74	1	77	77	-1.76%	-0.10%	-0.11%	-1.76%	-0.10%	-0.11%	-1.76%	-0.10%
2039	1	69	70	1	73	73	1	77	77	-1.74%	-0.10%	-0.11%	-1.74%	-0.10%	-0.11%	-1.74%	-0.10%
2040	0	70	70	0	73	74	0	77	77	-20.93%	0.49%	0.33%	-20.93%	0.49%	0.33%	-20.93%	0.49%

Therms Usage by Class																	
Low			Medium			High			Annual Change								
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	1,052	5,772	6,824	1,107	6,076	7,183	1,162	6,380	7,542	0.60%	0.61%	0.61%	0.60%	0.61%	0.61%	0.60%	0.61%
2025	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	-0.59%	-0.61%	-0.60%	-0.59%	-0.61%	-0.60%	-0.59%	-0.61%
2026	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	1,052	5,772	6,824	1,107	6,076	7,183	1,162	6,379	7,542	0.59%	0.60%	0.60%	0.59%	0.60%	0.60%	0.59%	0.60%
2029	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	-0.59%	-0.60%	-0.60%	-0.59%	-0.60%	-0.60%	-0.59%	-0.60%
2030	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2031	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2032	1,052	5,772	6,824	1,107	6,076	7,183	1,162	6,380	7,542	0.60%	0.61%	0.61%	0.60%	0.61%	0.61%	0.60%	0.61%
2033	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	-0.60%	-0.61%	-0.61%	-0.60%	-0.61%	-0.61%	-0.60%	-0.61%
2034	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2035	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2036	1,052	5,772	6,824	1,107	6,076	7,183	1,162	6,380	7,542	0.60%	0.61%	0.61%	0.60%	0.61%	0.61%	0.60%	0.61%
2037	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	-0.59%	-0.61%	-0.60%	-0.59%	-0.61%	-0.60%	-0.59%	-0.61%
2038	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2039	1,046	5,737	6,783	1,101	6,039	7,140	1,156	6,341	7,497	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2040	1,052	5,772	6,824	1,107	6,076	7,183	1,162	6,380	7,542	0.60%	0.61%	0.61%	0.60%	0.61%	0.61%	0.60%	0.61%

Customer Count Forecast																	
Low			Medium			High			Annual Change								
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2025	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2026	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2029	3	8	11	3	8	11	3	8	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2030	3	8	11	3	8	1											

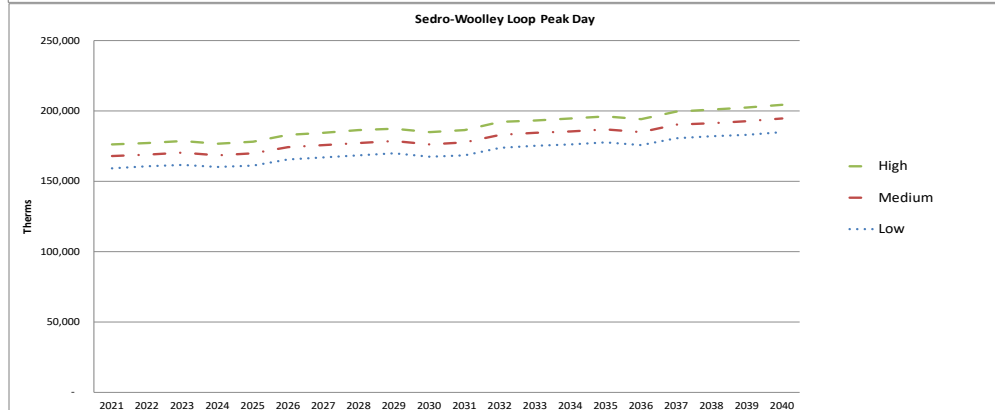
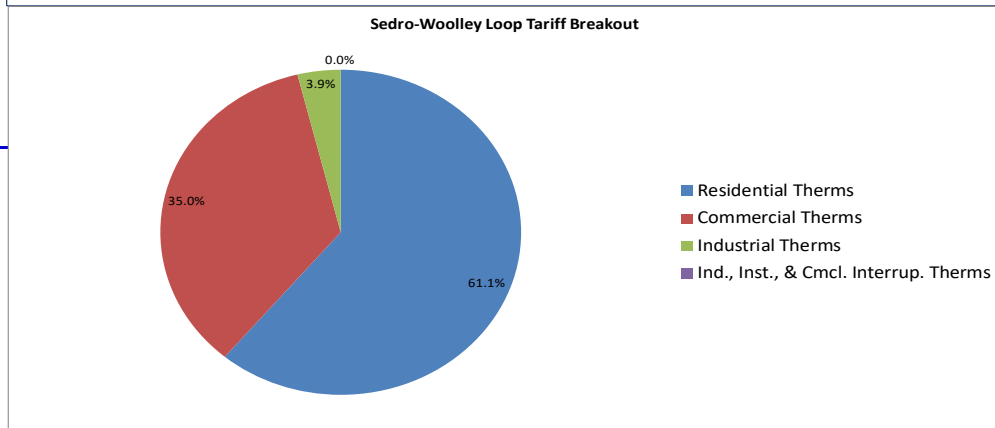
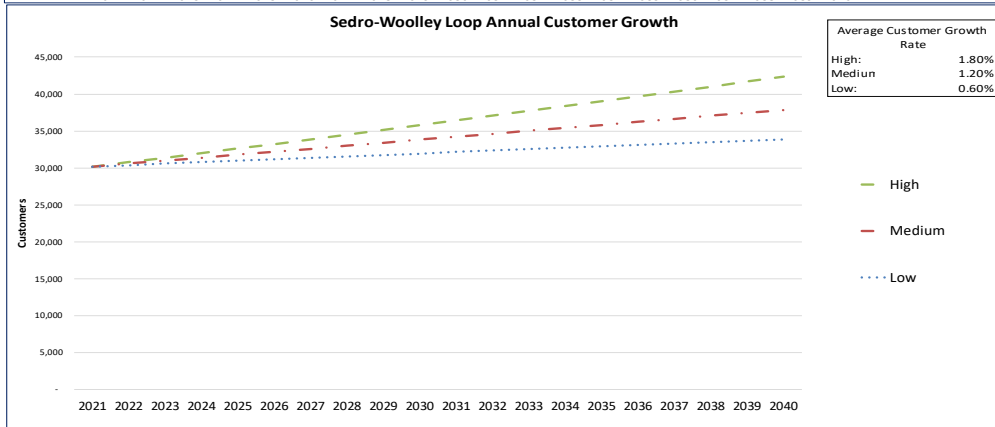
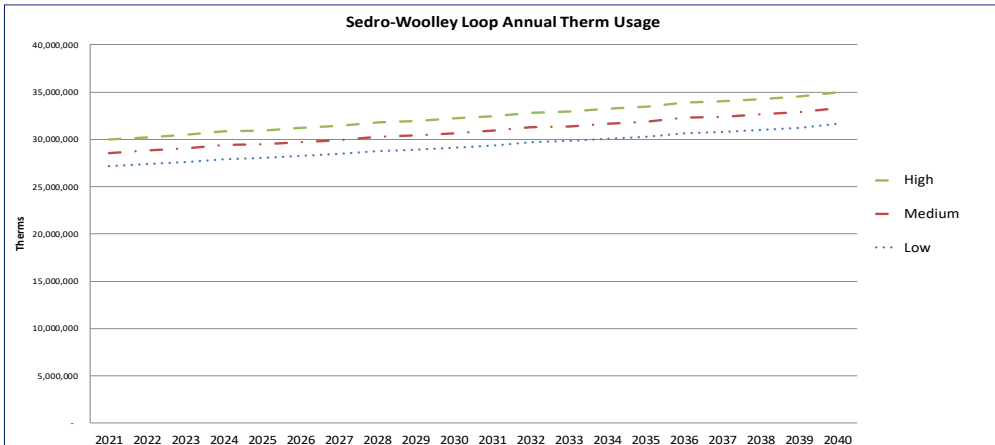


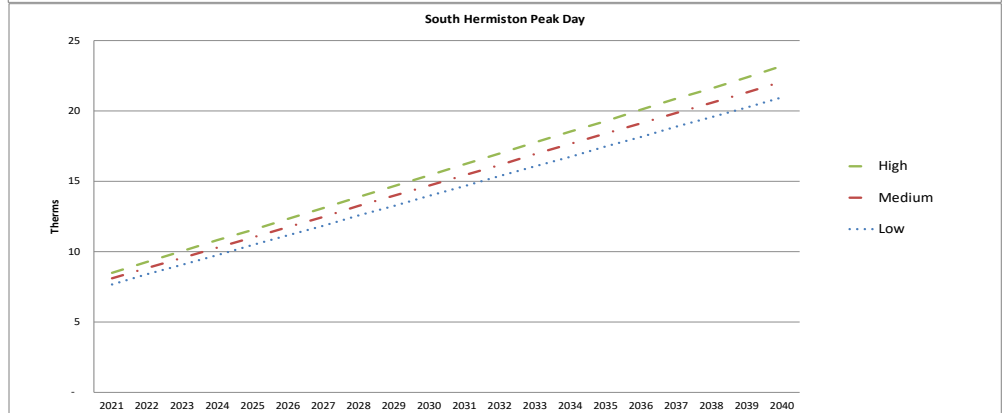
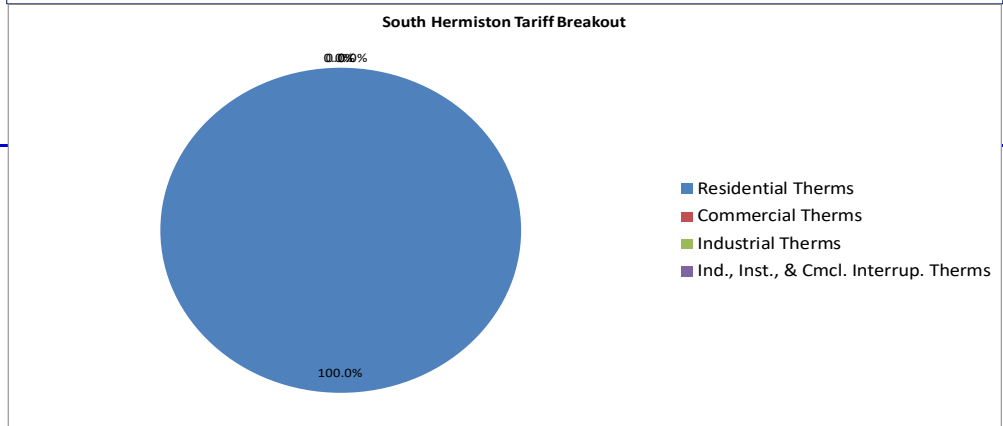
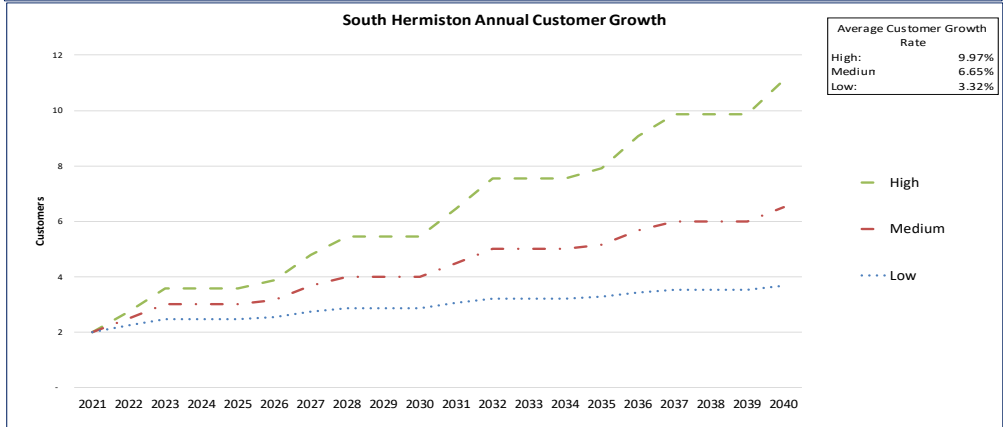
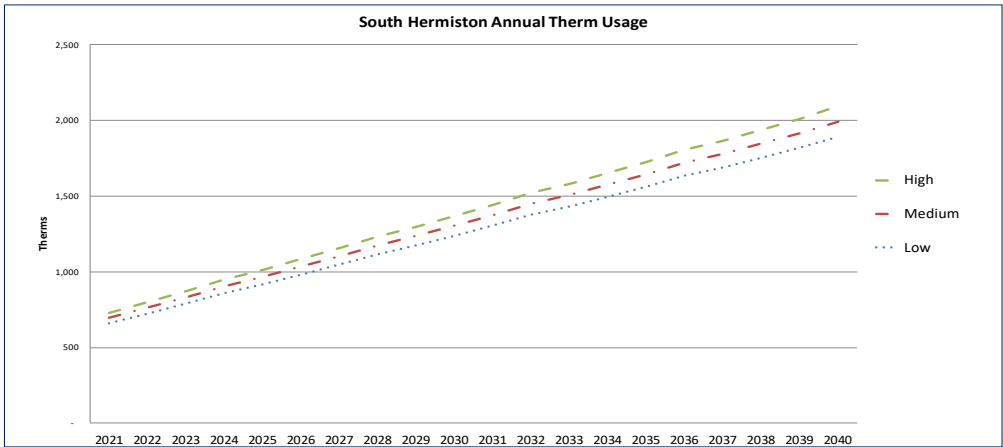
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

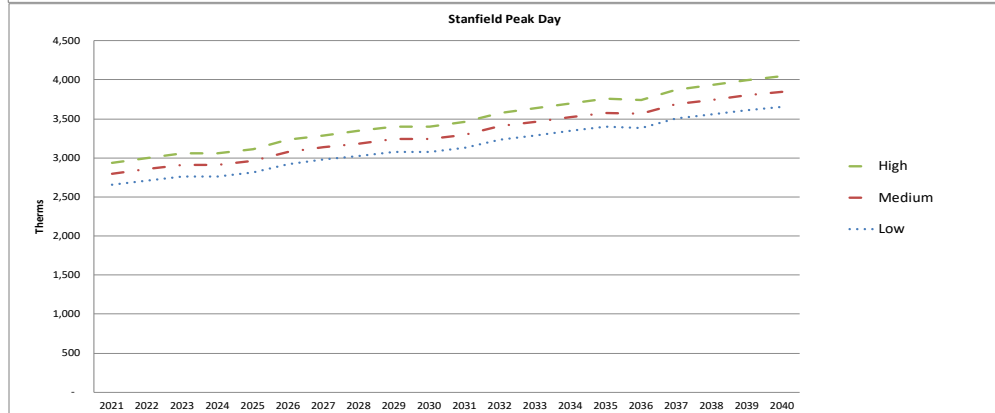
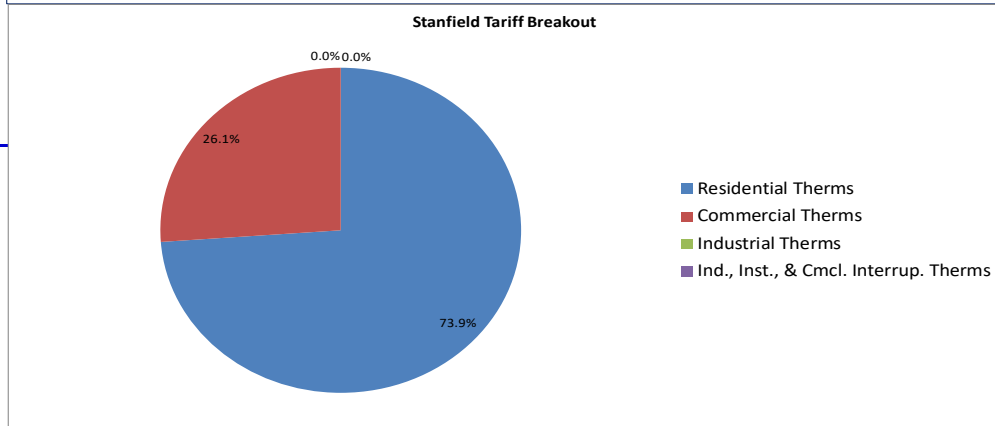
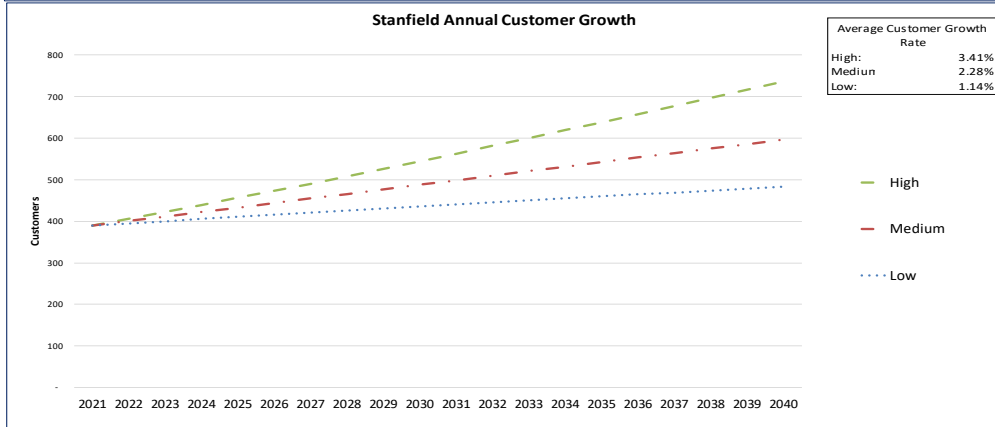
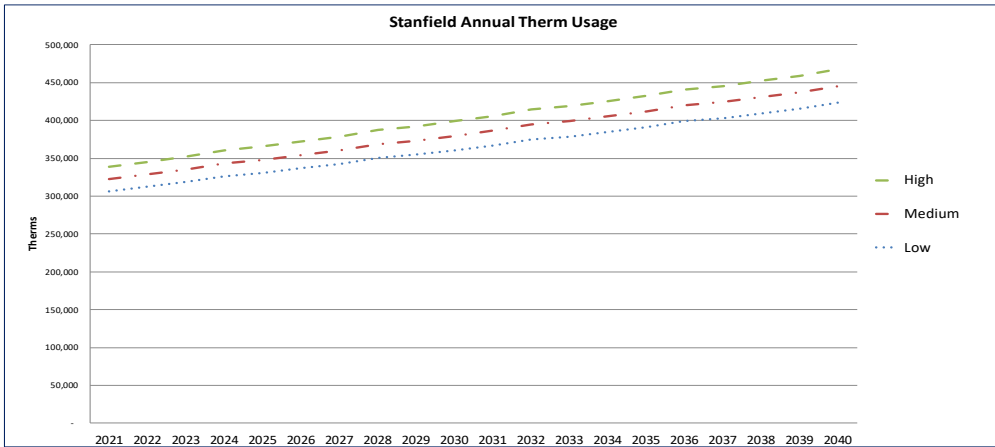
Sedro-Woolley Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	17,788,717	9,366,559	27,155,276	18,724,965	9,859,536	28,584,500	19,661,213	10,352,513	30,013,725	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	17,955,235	9,410,390	27,365,625	18,900,246	9,905,675	28,805,921	19,845,260	10,400,957	30,246,217	0.94%	0.47%	0.77%	0.94%	0.47%	0.77%	0.94%	0.47%
2023	18,606,318	8,974,378	27,580,696	19,585,599	9,446,713	29,032,312	20,564,879	9,919,049	30,483,928	3.63%	-4.63%	0.79%	3.63%	-4.63%	0.79%	3.63%	-4.63%
2024	19,092,333	8,826,236	27,918,569	20,097,192	9,290,774	29,387,966	21,102,053	9,755,313	30,857,366	2.61%	-1.65%	1.23%	2.61%	-1.65%	1.23%	2.61%	-1.65%
2025	18,364,150	9,654,332	28,018,482	19,330,685	10,162,454	29,493,139	20,297,217	10,670,579	30,967,796	-3.81%	3.38%	0.36%	-3.81%	3.38%	0.36%	-3.81%	3.38%
2026	18,539,062	9,699,466	28,238,528	19,514,804	10,209,962	29,724,766	20,490,542	10,720,462	31,211,004	0.95%	0.47%	0.79%	0.95%	0.47%	0.79%	0.95%	0.47%
2027	18,714,962	9,744,961	28,459,923	19,699,960	10,257,854	29,957,814	20,684,958	10,770,747	31,455,705	0.95%	0.47%	0.78%	0.95%	0.47%	0.78%	0.95%	0.47%
2028	19,343,571	9,454,418	28,797,989	20,361,652	9,952,020	30,313,672	21,379,734	10,449,621	31,829,356	3.36%	-2.98%	1.19%	3.36%	-2.98%	1.19%	3.36%	-2.98%
2029	19,291,562	9,615,766	28,907,328	20,306,905	10,121,861	30,428,767	21,322,250	10,627,955	31,950,205	-0.27%	1.71%	0.38%	-0.27%	1.71%	0.38%	-0.27%	1.71%
2030	19,984,706	9,148,966	29,133,672	21,036,533	9,630,491	30,667,023	22,088,360	10,112,015	32,200,375	3.59%	-4.85%	0.78%	3.59%	-4.85%	0.78%	3.59%	-4.85%
2031	19,317,987	10,043,830	29,361,816	20,334,723	10,572,452	30,907,174	21,351,460	11,101,073	32,452,534	-3.34%	9.78%	0.78%	-3.34%	9.78%	0.78%	-3.34%	9.78%
2032	19,508,386	10,208,747	29,717,132	20,535,142	10,746,049	31,281,191	21,561,901	11,283,351	32,845,252	0.99%	1.64%	1.21%	0.99%	1.64%	1.21%	0.99%	1.64%
2033	19,563,148	10,258,887	29,822,035	20,592,787	10,795,670	31,388,458	21,622,428	11,335,452	32,957,881	0.28%	0.46%	0.34%	0.28%	0.46%	0.34%	0.28%	0.46%
2034	20,250,210	9,801,889	30,052,099	21,316,010	10,317,778	31,633,788	22,381,810	11,833,668	33,215,478	3.51%	-4.43%	0.78%	3.51%	-4.43%	0.78%	3.51%	-4.43%
2035	20,296,758	9,993,716	30,290,474	21,365,009	10,519,700	31,884,709	22,433,258	11,045,686	33,478,944	0.23%	1.96%	0.79%	0.23%	1.96%	0.79%	0.23%	1.96%
2036	20,134,957	10,521,547	30,656,504	21,194,688	11,075,316	32,270,004	22,254,427	11,629,078	33,885,055	-0.80%	5.28%	1.21%	-0.80%	5.28%	1.21%	-0.80%	5.28%
2037	20,194,807	10,570,610	30,765,417	21,257,690	11,126,380	32,384,070	22,320,575	11,682,698	34,003,273	0.30%	0.46%	0.35%	0.30%	0.46%	0.35%	0.30%	0.46%
2038	20,385,855	10,619,076	31,004,931	21,458,794	11,177,977	32,636,770	22,531,731	11,736,875	34,268,608	0.95%	0.46%	0.78%	0.95%	0.46%	0.78%	0.95%	0.46%
2039	20,574,573	10,668,602	31,243,175	21,657,445	11,230,109	32,887,553	22,740,316	11,791,614	34,531,930	0.93%	0.47%	0.77%	0.93%	0.47%	0.77%	0.93%	0.47%
2040	21,429,788	10,190,447	31,620,235	22,557,670	10,726,788	33,284,458	23,685,553	11,263,128	34,948,681	4.16%	-4.48%	1.21%	4.16%	-4.48%	1.21%	4.16%	-4.48%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	25,662	133,718	159,380	27,012	140,756	167,769	28,363	147,794	176,157	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	25,782	134,745	160,527	27,139	141,836	168,975	28,496	148,928	177,424	0.47%	0.77%	0.72%	0.47%	0.77%	0.72%	0.47%	0.77%
2023	24,587	137,092	161,679	25,881	144,307	170,189	27,175	151,523	178,698	-4.63%	1.74%	-0.72%	-4.63%	1.74%	-0.72%	-4.63%	1.74%
2024	24,181	135,865	160,047	25,454	143,016	168,470	26,727	150,167	176,894	-1.65%	-0.90%	-1.01%	-1.65%	-0.90%	-1.01%	-1.65%	-0.90%
2025	26,150	139,744	165,894	27,842	144,836	169,678	29,234	149,238	182,472	0.38%	-0.83%	0.23%	0.38%	-0.83%	0.23%	0.38%	-0.83%
2026	26,574	139,058	165,631	27,972	146,376	174,349	29,371	153,695	183,066	0.47%	3.20%	2.75%	0.47%	3.20%	2.75%	0.47%	3.20%
2027	26,699	140,119	166,818	28,104	147,494	175,598	29,509	154,869	184,377	0.47%	0.76%	0.72%	0.47%	0.76%	0.72%	0.47%	0.76%
2028	25,903	142,561	168,464	27,266	150,064	177,330	28,659	157,567	186,197	-2.98%	1.74%	-0.99%	-2.98%	1.74%	-0.99%	-2.98%	1.74%
2029	26,345	143,327	169,671	27,731	150,870	178,601	29,118	158,414	187,531	1.71%	0.54%	0.72%	1.71%	0.54%	0.72%	1.71%	0.54%
2030	25,066	142,435	167,501	26,385	149,931	176,316	27,704	157,428	185,132	-4.85%	-0.62%	-1.28%	-4.85%	-0.62%	-1.28%	-4.85%	-0.62%
2031	27,517	141,179	168,696	28,966	148,609	177,575	30,414	156,040	186,454	9.78%	-0.88%	0.71%	9.78%	-0.88%	0.71%	9.78%	-0.88%
2032	27,969	145,835	173,804	29,441	153,511	182,952	30,913	161,186	192,100	1.64%	3.30%	3.03%	1.64%	3.30%	3.03%	1.64%	3.30%
2033	28,098	146,948	175,047	29,577	154,683	184,260	31,056	162,417	193,473	0.46%	0.76%	0.71%	0.46%	0.76%	0.71%	0.46%	0.76%
2034	26,854	140,442	176,297	28,268	157,308	185,576	29,681	165,173	194,854	-4.43%	1.70%	-1.43%	-4.43%	1.70%	-1.43%	-4.43%	1.70%
2035	27,380	150,174	177,555	28,821	158,078	186,900	30,262	165,982	196,244	1.96%	0.49%	0.71%	1.96%	0.49%	0.71%	1.96%	0.49%
2036	28,826	146,931	175,757	30,343	154,666	185,007	31,860	162,397	194,258	5.28%	-2.16%	-1.01%	5.28%	-2.16%	-1.01%	5.28%	-2.16%
2037	28,959	151,623	180,582	30,483	159,603	190,086	32,007	167,583	199,591	0.46%	3.19%	2.75%	0.46%	3.19%	2.75%	0.46%	3.19%
2038	29,093	152,776	181,869	30,625	160,817	191,441	32,156	168,857	201,013	0.46%	0.76%	0.71%	0.46%	0.76%	0.71%	0.46%	0.76%
2039	29,229	153,935	183,164	30,767	162,037	192,804	32,306	170,138	202,444	0.47%	0.76%	0.71%	0.47%	0.76%	0.71%	0.47%	0.76%
2040	27,919	157,046	184,965	29,388	165,311	194,700	30,858	175,577	204,435	-4.48%	2.02%	0.98%	-4.48%	2.02%	0.98%	-4.48%	2.02%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	16,662,680	10,492,596	27,155,276	17,539,662	11,044,838	28,584,500	18,416,646	11,597,880	30,013,725	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	16,794,574	10,571,051	27,365,625	17,678,500	11,127,421	28,805,921	18,562,425	11,683,793	30,246,217	0.79%	0.75%	0.77%	0.79%	0.75%	0.77%	0.79%	0.75%
2023	16,929,359	10,651,337	27,580,696	17,820,378	11,211,934	29,032,312	18,711,397	11,772,510	30,483,928	0.80%	0.76%	0.79%	0.80%	0.76%	0.79%	0.80%	0.76%
2024	17,141,257	10,777,312	27,918,569	18,043,428	11,344,538	29,387,966	18,945,600	11,911,766	30,857,366	1.25%	1.18%	1.23%	1.25%	1.18%	1.23%	1.25%	1.18%
2025	17,203,580	10,814,902	28,018,482	18,109,032	11,384,107	29,493,139	19,014,428	11,953,312	30,967,796	0.36%	0.35%	0.36%	0.36%	0.35%	0.36%	0.36%	0.35%
2026	17,341,481	10,897,046	28,238,528	18,254,191	11,470,575	29,724,766	19,166,901	12,044,104	31,211,004	0.80%	0.76%	0.79%	0.80%	0.76%	0.79%	0.80%	0.76%
2027	17,480,229	10,979,694	28,459,923	18,400,241	11,557,573	29,957,814	19,320,253	12,135,452	31,455,705	0.80%	0.76%	0.78%	0.80%	0.76%	0.78%	0.80%	0.76%
2028	17,692,520	11,105,468	28,797,989	18,623,705	11,689,967	30,313,672	19,554,891	12,274,465	31,829,356	1.21%	1.15%	1.19%	1.21%	1.15%	1.19%	1.21%	1.15%
2029	17,760,547	11,146,781	28,907,328	18,695,313	11,733,454	30,428,767	19,630,078	12,320,127	31,950,205	0.38%	0.37%	0.38%	0.38%	0.37%	0.38%	0.38%	0.37%
2030	17,902,395	11,231,277	29,133,672	18,844,626	11,822,397	30,667,023	19,786,858	12,413,517	32,200,375	0.80%	0.76%	0.78%	0.80%	0.76%	0.78%	0.80%	0.76%
2031	18,045,371	11,316,445	29,361,816	18,995,127	11,912,048	30,907,174	19,944,884	12,507,650	32,452,534	0.80%	0.76%	0.78%	0.80%	0.76%	0.78%	0.80%	0.76%
2032	18,268,393	11,448,739	29,717,132	19,229,887	12,051,304	31,281,191	20,191,382	12,653,870	32,845,252	1.24%	1.17%	1.21%	1.24%	1.17%	1.21%	1.24%	1.17%
2033	18,331,911	11,487,125	29,819,035	19,296,748	12,091,710	31,388,458	20,261,585	12,696,295	32,957,881	0.35%	0.34%	0.34%	0.35%	0.34%	0.34%	0.35%	0.34%
2034	18,477,969	11,574,129	30,052,099	19,450,494	12,183,294	31,633,788	20,423,019	12,792,459	33,215,478	0.80%	0.76%	0.78%	0.80%	0.76%	0.78%	0.80%	0.76%
2035	18,627,284	11,663,190	30,290,474														





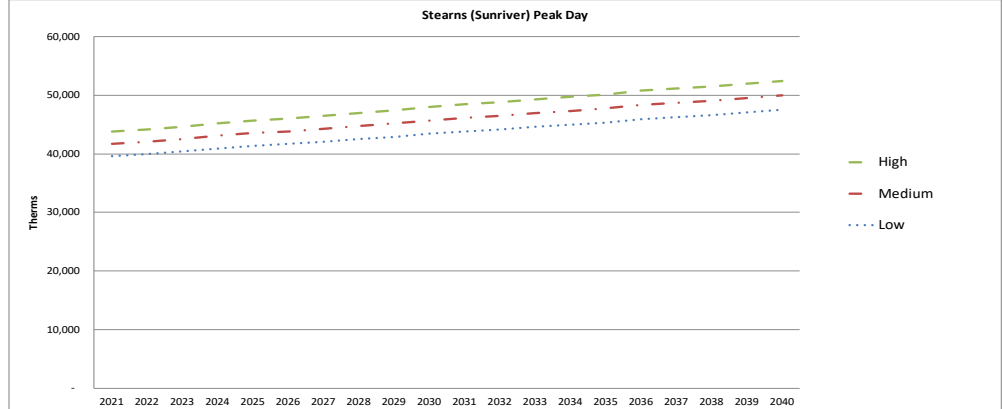
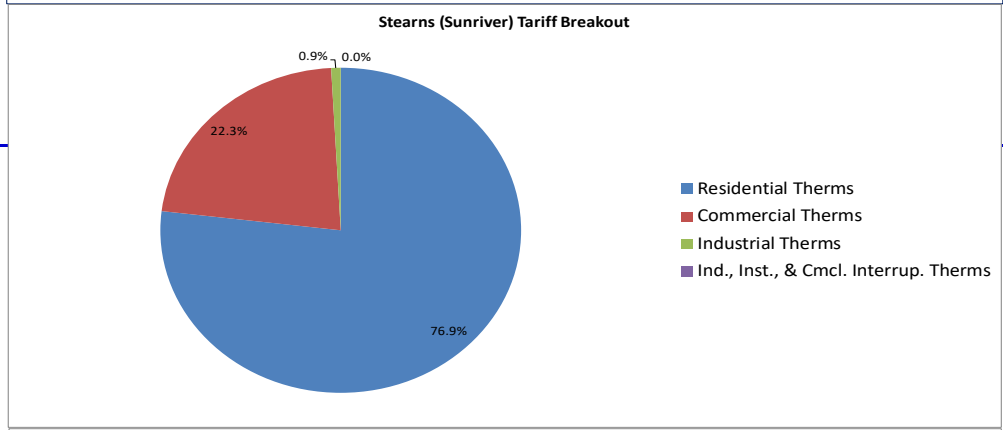
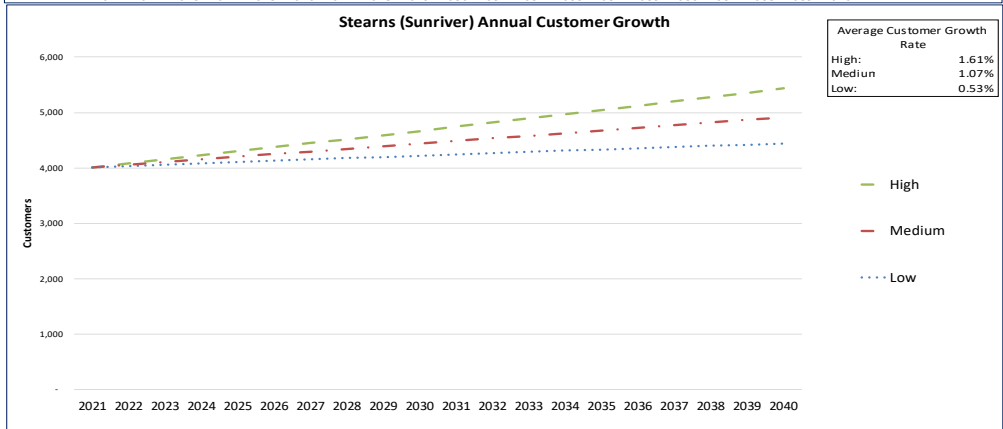
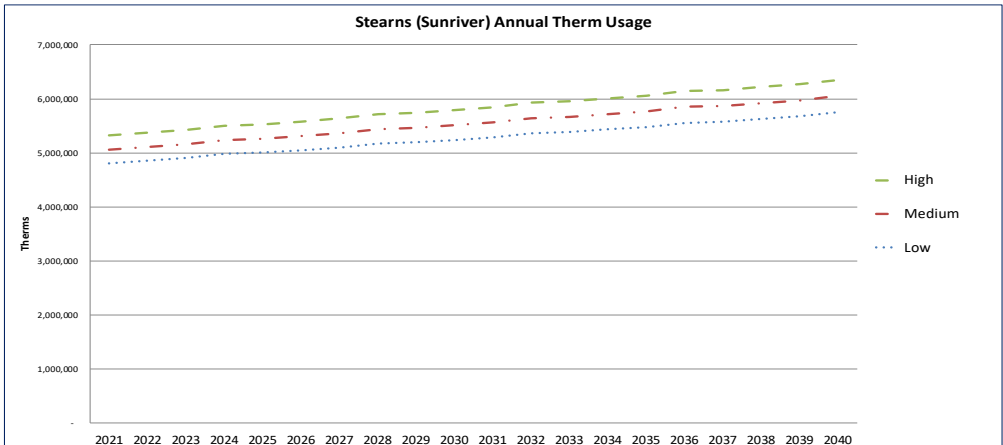


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Stearns (Sunriver)																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,878,911	1,933,413	4,812,325	3,030,433	2,035,172	5,065,605	3,215,782	2,103,103	5,318,885	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,912,011	1,948,169	4,860,180	3,065,274	2,050,705	5,115,979	3,252,194	2,119,584	5,371,778	1.15%	0.76%	0.99%	1.15%	0.76%	0.99%	1.15%	0.78%
2023	2,946,040	1,961,811	4,907,851	3,101,095	2,065,064	5,166,159	3,289,591	2,134,876	5,424,467	1.17%	0.76%	0.98%	1.17%	0.76%	0.98%	1.13%	0.78%
2024	2,998,962	1,981,223	4,980,185	3,156,802	2,085,498	5,242,300	3,348,113	2,156,303	5,504,416	1.80%	0.99%	1.47%	1.80%	0.99%	1.47%	1.78%	1.00%
2025	3,008,493	1,994,862	5,003,355	3,166,835	2,099,855	5,266,689	3,358,420	2,171,604	5,530,024	0.32%	0.89%	1.47%	0.32%	0.89%	1.47%	1.78%	1.00%
2026	3,042,620	2,008,469	5,051,090	3,202,757	2,114,179	5,316,936	3,395,914	2,186,869	5,582,783	1.13%	0.68%	0.95%	1.13%	0.68%	0.95%	1.12%	0.70%
2027	3,075,706	2,023,127	5,098,833	3,237,586	2,129,607	5,367,193	3,432,269	2,203,283	5,635,553	1.09%	0.73%	0.95%	1.09%	0.73%	0.95%	1.07%	0.75%
2028	3,126,582	2,045,907	5,172,490	3,291,140	2,153,587	5,444,726	3,488,504	2,228,459	5,716,962	1.65%	1.13%	1.44%	1.65%	1.13%	1.44%	1.64%	1.44%
2029	3,136,092	2,058,442	5,194,534	3,301,149	2,166,781	5,467,930	3,498,811	2,242,515	5,741,326	0.30%	0.61%	0.43%	0.30%	0.61%	0.43%	0.30%	0.63%
2030	3,171,380	2,070,926	5,242,306	3,338,295	2,179,922	5,518,216	3,537,611	2,256,516	5,794,127	1.13%	0.61%	0.92%	1.13%	0.61%	0.92%	1.11%	0.62%
2031	3,205,640	2,084,444	5,290,084	3,374,358	2,194,151	5,568,509	3,575,254	2,271,681	5,846,935	1.08%	0.65%	0.91%	1.08%	0.65%	0.91%	1.06%	0.67%
2032	3,257,131	2,107,445	5,364,577	3,428,559	2,218,364	5,646,922	3,632,154	2,297,114	5,929,269	1.61%	1.10%	1.41%	1.61%	1.10%	1.41%	1.59%	1.12%
2033	3,263,819	2,122,118	5,385,936	3,435,599	2,233,808	5,669,406	3,639,933	2,313,544	5,952,877	0.21%	0.70%	0.40%	0.21%	0.70%	0.40%	0.20%	0.72%
2034	3,298,088	2,135,638	5,433,726	3,471,672	2,248,040	5,719,712	3,676,998	2,328,700	6,005,698	1.05%	0.64%	0.89%	1.05%	0.64%	0.89%	1.03%	0.66%
2035	3,333,433	2,147,993	5,481,426	3,508,876	2,261,045	5,769,922	3,715,861	2,342,557	6,058,418	1.07%	0.58%	0.88%	1.07%	0.58%	0.88%	1.06%	0.60%
2036	3,387,977	2,169,952	5,556,929	3,566,291	2,283,108	5,849,399	3,776,143	2,365,726	6,141,869	1.64%	0.98%	1.38%	1.64%	0.98%	1.38%	1.62%	0.99%
2037	3,394,802	2,182,425	5,577,227	3,573,475	2,297,290	5,870,766	3,783,464	2,380,840	6,164,304	0.20%	0.62%	0.37%	0.20%	0.62%	0.37%	0.19%	0.64%
2038	3,428,008	2,197,038	5,625,046	3,608,430	2,312,672	5,921,101	3,819,955	2,397,202	6,217,156	0.98%	0.67%	0.86%	0.98%	0.67%	0.86%	0.96%	0.69%
2039	3,461,344	2,211,631	5,672,976	3,643,520	2,328,033	5,971,553	3,856,589	2,413,543	6,270,131	0.97%	0.67%	0.85%	0.97%	0.67%	0.85%	0.96%	0.68%
2040	3,516,726	2,232,784	5,749,510	3,701,817	2,350,299	6,052,116	3,917,804	2,436,918	6,354,722	1.60%	0.96%	1.35%	1.60%	0.96%	1.35%	1.59%	0.97%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	5,297	34,302	39,599	5,576	36,108	41,683	5,762	38,006	43,768	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,337	34,667	40,004	5,618	36,491	42,110	5,807	38,408	44,215	0.76%	1.06%	1.02%	0.76%	1.06%	1.02%	0.78%	1.06%
2023	5,375	35,033	40,408	5,658	36,877	42,563	5,849	38,813	44,662	0.70%	1.06%	1.01%	0.70%	1.06%	1.01%	0.72%	1.05%
2024	5,428	35,514	40,942	5,714	37,383	43,097	5,908	39,344	45,251	0.99%	1.37%	1.32%	0.99%	1.37%	1.32%	1.00%	1.37%
2025	5,465	35,882	41,347	5,753	37,770	43,524	5,950	39,760	45,700	0.69%	1.04%	0.99%	0.69%	1.04%	0.99%	0.71%	1.05%
2026	5,503	36,158	41,661	5,792	38,061	43,854	5,991	40,055	46,046	0.68%	0.77%	0.68%	0.68%	0.77%	0.68%	0.70%	0.77%
2027	5,543	36,522	42,065	5,835	38,445	44,279	6,036	40,457	46,493	0.73%	1.01%	0.97%	0.73%	1.01%	0.97%	0.75%	1.00%
2028	5,605	36,905	42,510	5,900	38,847	44,747	6,105	40,879	46,985	1.13%	1.05%	1.06%	1.13%	1.05%	1.06%	1.14%	1.04%
2029	5,640	37,275	42,915	5,936	39,237	45,174	6,144	41,288	47,432	0.61%	1.00%	0.95%	0.61%	1.00%	0.95%	0.63%	1.00%
2030	5,674	37,740	43,414	5,972	39,727	45,699	6,182	41,802	47,984	0.61%	1.25%	1.16%	0.61%	1.25%	1.16%	0.62%	1.24%
2031	5,711	38,108	43,819	6,011	40,114	46,125	6,224	42,208	48,432	0.65%	0.97%	0.93%	0.65%	0.97%	0.93%	0.67%	0.97%
2032	5,774	38,396	44,170	6,078	40,417	46,495	6,293	42,526	48,820	1.10%	0.76%	0.80%	1.10%	0.76%	0.80%	1.12%	0.75%
2033	5,814	38,761	44,575	6,120	40,801	46,921	6,338	42,928	49,267	0.70%	0.95%	0.92%	0.70%	0.95%	0.92%	0.72%	0.95%
2034	5,851	39,128	44,979	6,159	41,188	47,347	6,380	43,334	49,714	0.64%	0.95%	0.91%	0.64%	0.95%	0.91%	0.66%	0.94%
2035	5,885	39,498	45,383	6,195	41,577	47,772	6,418	43,743	50,161	0.58%	0.95%	0.90%	0.58%	0.95%	0.90%	0.60%	0.94%
2036	5,942	39,987	45,929	6,255	42,092	48,347	6,481	44,283	50,764	0.98%	1.24%	1.20%	0.98%	1.24%	1.20%	0.99%	1.23%
2037	5,979	40,256	46,235	6,294	42,375	48,669	6,523	44,579	51,102	0.62%	0.67%	0.67%	0.62%	0.67%	0.67%	0.64%	0.67%
2038	6,019	40,620	46,640	6,336	42,758	49,094	6,568	44,981	51,549	0.67%	0.90%	0.87%	0.67%	0.90%	0.87%	0.69%	0.90%
2039	6,059	40,984	47,044	6,378	43,142	49,520	6,612	45,383	51,996	0.66%	0.90%	0.87%	0.66%	0.90%	0.87%	0.68%	0.89%
2040	6,117	41,375	47,493	6,439	43,553	49,992	6,676	45,815	52,492	0.96%	0.95%	0.95%	0.96%	0.95%	0.95%	0.97%	0.95%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	3,685,892	1,126,432	4,812,325	3,879,886	1,185,718	5,065,605	4,073,881	1,245,004	5,318,885	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,731,941	1,128,239	4,860,180	3,928,359	1,187,620	5,115,979	4,124,771	1,247,001	5,371,778	1.25%	0.16%	0.99%	1.25%	0.16%	0.99%	1.25%	0.16%
2023	3,777,902	1,129,949	4,907,851	3,976,739	1,189,420	5,166,159	4,175,576	1,248,891	5,424,467	1.23%	0.15%	0.98%	1.23%	0.15%	0.98%	1.23%	0.15%
2024	3,843,819	1,136,366	4,980,185	4,046,126	1,196,175	5,242,300	4,248,432	1,258,984	5,504,416	1.74%	0.57%	1.47%	1.74%	0.57%	1.47%	1.74%	1.47%
2025	3,870,018	1,133,337	5,003,355	4,075,703	1,192,986	5,266,689	4,277,588	1,252,635	5,530,024	0.68%	-0.27%	0.47%	0.68%	-0.27%	0.47%	0.68%	-0.27%
2026	3,916,044	1,135,046	5,051,090	4,122,151	1,194,785	5,316,936	4,338,359	1,254,524	5,582,783	1.19%	0.15%	0.95%	1.19%	0.15%	0.95%	1.19%	0.15%
2027	3,962,079	1,136,755	5,098,833	4,170,609	1,196,584	5,367,193	4,379,140	1,256,413	5,635,553	1.18%	0.15%	0.95%	1.18%	0.15%	0.95%	1.18%	0.15%
2028	4,029,174	1,143,316	5,172,490	4,241,236	1,203,490	5,444,726	4,453,297	1,263,665	5,716,962	1.69%	0.58%	1.44%	1.69%	0.58%	1.44%	1.69%	0.58%
2029	4,054,353	1,140,181	5,194,534	4,267,740	1,200,190	5,467,930	4,481,127	1,260,200	5,741,326	0.62%	-0.27%	0.43%	0.62%	-0.27%	0.43%	0.62%	-0.27%
2030	4,100,416	1,141,889	5,242,306	4,316,228	1,201,989	5,518,216	4,532,039	1,262,808	5,794,127	1.14%	0.15%	0.92%	1.14%	0.15%	0.92%	1.14%	0.15%
2031	4,146,485	1,143,598	5,290,084	4,364,721	1,203,788	5,568,509	4,582,958	1,263,977	5,846,935	1.12%	0.15%	0.91%	1.12%	0.15%	0.91%	1.12%	0.15%
2032	4,214,465	1,150,112	5,364,577	4,436,279	1,210,644	5,646,922	4,658,093	1,271,176	5,929,269	1.64%	0.57%	1.41%	1.64%	0.57%	1.41%	1.64%	0.57%
2033	4,238,873	1,147,063	5,385,936	4,461,972	1,207,435	5,669,406	4,685,070	1,267,806	5,952,877	0.58%	-0.27%	0.40%	0.58%	-0.27%	0.40%	0.58%	-0.27%
2034	4,284,954	1,148,772	5,433,726	4,510,478	1,209,234	5,719,712	4,736,002	1,269,695	6,005,698	1.09%	0.15%	0.89%	1.09%	0.15%	0.89%	1.09%	0.15%
2035	4,330,984	1,150,442	5,481,426	4,558,930	1,210,992	5,769,922	4,786,877	1,271,541	6,058,418	1.07%	0.15%	0.88%	1.07%	0.15%	0.88%	1.07%	0.15%
2036	4,399,945	1,156,984	5,556,929	4,631,521	1,217,878	5,849,399	4,863,097	1,278,772	6,141,869	1.59%	0.57%	1.38%	1.59%	0.57%	1.38%	1.59%	0.57%
2037	4,423,360	1,153,868	5,577,227	4,656,168	1,214,598	5,870,766	4,888,976	1,275,328	6								

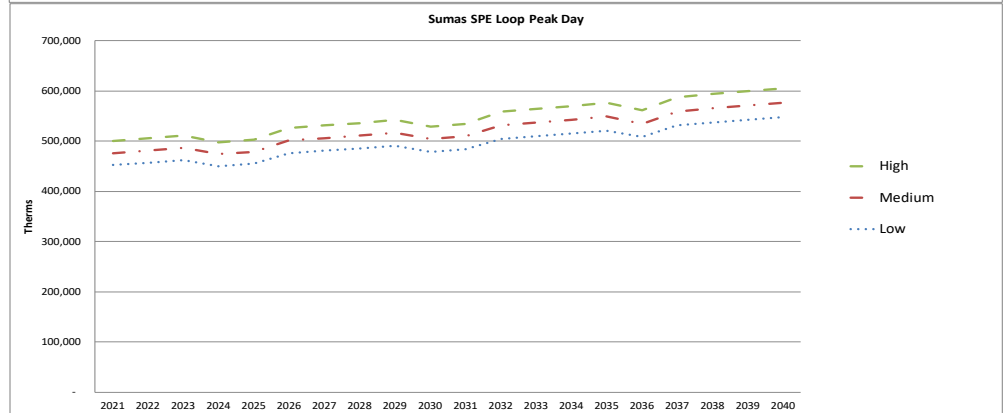
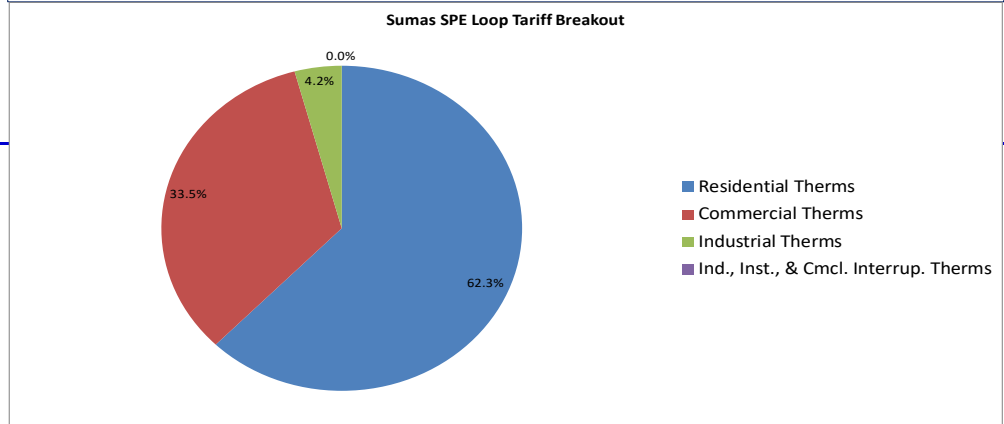
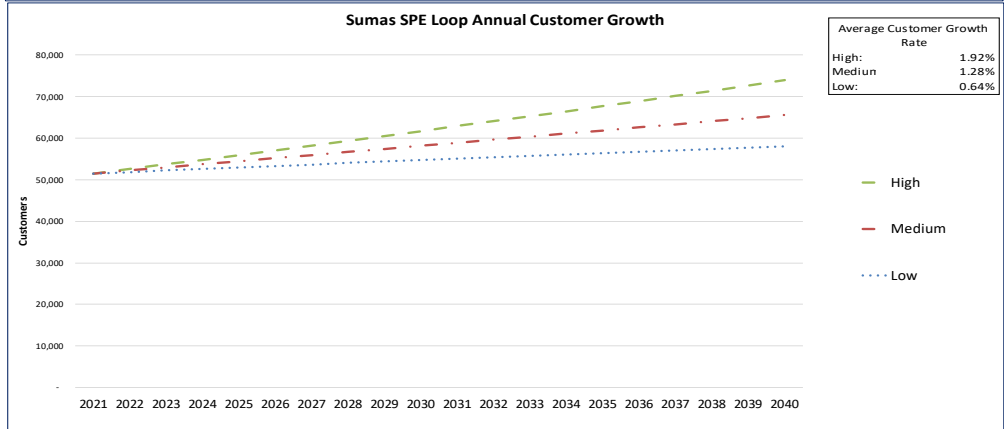
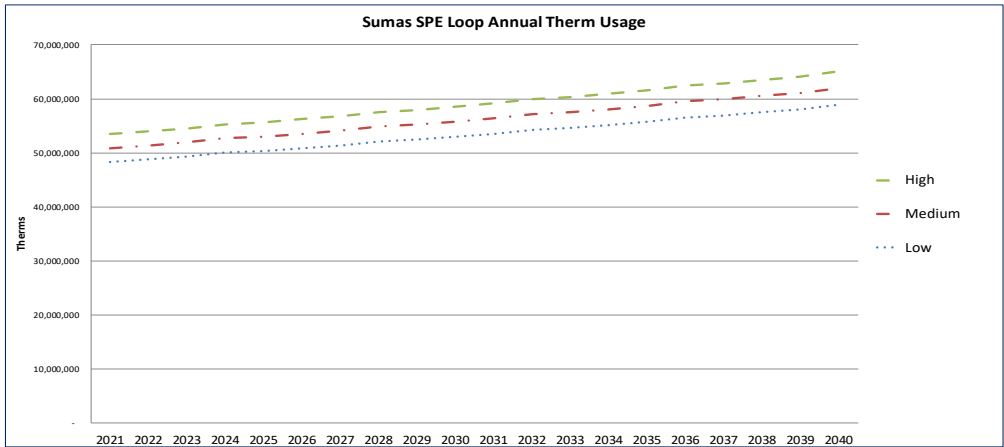


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Sumas SPE Loop														
Annual Requirements (Therms)														
Low					Medium					High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	38,317,401	10,044,170	48,361,571	40,334,107	10,572,810	50,906,917	42,350,813	11,101,449	53,452,262	0.00%	0.00%	0.00%	0.00%	0.00%
2022	38,691,130	10,147,377	48,838,507	40,727,505	10,681,451	51,408,956	42,763,880	11,215,524	53,979,404	0.98%	1.03%	0.99%	0.98%	0.99%
2023	44,559,387	4,776,239	49,335,626	46,904,617	5,027,620	51,932,237	49,249,851	5,428,852	54,678,703	15.17%	-52.93%	1.02%	15.17%	-52.93%
2024	45,141,571	4,911,214	50,052,786	47,517,443	5,169,700	52,687,143	49,893,317	5,428,184	55,321,501	1.31%	2.83%	1.45%	1.31%	2.83%
2025	39,886,517	10,474,785	50,361,302	41,985,806	11,026,091	53,011,897	44,085,095	11,577,396	55,662,491	-11.64%	113.28%	0.62%	-11.64%	113.28%
2026	40,291,282	10,583,882	50,875,164	42,411,872	11,140,930	53,552,802	44,532,465	11,697,976	56,230,441	1.01%	1.04%	1.03%	1.01%	1.04%
2027	40,701,628	10,693,045	51,394,673	42,843,817	11,255,838	54,099,655	44,986,008	11,818,630	56,804,638	1.02%	1.03%	1.02%	1.02%	1.03%
2028	47,064,119	5,030,231	52,094,350	49,541,177	5,294,980	54,836,157	52,018,239	5,595,728	57,614,967	15.63%	-52.96%	1.36%	15.63%	-52.96%
2029	45,348,227	7,101,532	52,449,759	47,734,974	7,475,298	55,210,272	50,121,723	7,849,064	57,970,787	-3.65%	41.18%	0.68%	-3.65%	41.18%
2030	47,564,659	5,231,773	52,796,432	50,268,063	5,507,129	55,775,192	52,781,466	5,782,485	58,563,951	5.31%	-26.33%	1.02%	5.31%	-26.33%
2031	42,374,925	11,154,025	53,528,950	44,605,181	11,741,082	56,346,263	46,835,443	12,328,133	59,163,575	-11.27%	113.20%	1.02%	-11.27%	113.20%
2032	43,016,718	11,276,161	54,292,879	45,280,754	11,869,644	57,150,398	47,544,791	12,463,126	60,007,917	1.51%	1.09%	1.43%	1.51%	1.09%
2033	43,222,304	11,393,463	54,615,767	45,497,157	11,991,017	57,488,174	47,772,018	12,590,567	60,362,585	0.48%	1.02%	0.59%	0.48%	1.02%
2034	49,809,908	5,363,939	55,173,847	52,431,482	5,846,251	58,277,733	55,053,056	5,928,564	60,981,620	15.24%	-52.91%	1.03%	15.24%	-52.91%
2035	48,180,722	5,757,080	53,937,802	50,716,548	7,975,876	58,692,425	55,252,378	8,374,668	61,627,046	-3.27%	41.26%	1.06%	-3.27%	41.26%
2036	44,794,131	11,760,721	56,554,852	47,151,719	12,379,704	59,531,424	49,509,303	12,998,692	62,508,995	-7.03%	55.21%	1.43%	-7.03%	55.21%
2037	45,025,551	11,892,914	56,908,465	47,395,316	12,508,331	59,903,647	49,765,082	13,138,748	62,898,830	0.52%	1.04%	0.63%	0.52%	1.04%
2038	45,488,712	12,005,117	57,493,882	47,882,853	12,637,023	60,519,876	50,277,001	13,268,871	63,545,871	1.03%	1.03%	1.03%	1.03%	1.03%
2039	45,934,511	12,132,654	58,067,165	48,352,112	12,771,218	61,123,330	50,769,719	13,409,776	64,179,495	0.98%	1.06%	1.00%	0.98%	1.06%
2040	53,170,724	5,278,373	58,449,097	55,969,185	6,029,866	61,999,051	58,767,641	6,331,361	65,099,001	15.75%	-52.79%	1.43%	15.75%	-52.79%

Peak Day - BaseLoad														
Low					Medium					High				
BaseLoad	Peak	Total	BaseLoad	Peak	Total	BaseLoad	Peak	Total	BaseLoad	Peak	Total	BaseLoad	Peak	Total
2021	27,518	425,078	452,596	28,967	447,450	476,417	30,415	469,823	500,238	0.00%	0.00%	0.00%	0.00%	0.00%
2022	27,801	429,557	457,358	29,264	452,165	481,430	30,727	474,774	505,501	1.03%	1.05%	1.05%	1.03%	1.05%
2023	13,086	449,083	462,169	13,774	472,719	486,493	14,463	496,355	510,818	-52.93%	4.55%	1.05%	-52.93%	4.55%
2024	13,455	436,979	450,435	14,164	459,978	474,142	14,872	482,977	497,849	2.83%	-2.70%	2.83%	-2.70%	2.83%
2025	28,688	500,422	529,110	30,208	448,939	479,147	31,719	471,386	502,904	113.28%	-2.40%	1.06%	113.28%	-2.40%
2026	28,997	446,972	475,969	30,523	470,497	501,020	32,049	494,022	526,071	1.04%	4.80%	1.04%	4.80%	1.04%
2027	29,296	451,696	480,992	30,838	475,470	506,308	32,380	499,243	531,623	1.03%	1.06%	1.06%	1.03%	1.06%
2028	13,781	471,306	485,087	14,507	496,111	510,618	15,232	520,917	536,149	-52.96%	4.34%	0.85%	-52.96%	4.34%
2029	19,456	470,763	490,219	20,480	495,540	516,020	21,504	520,317	541,821	41.18%	-0.12%	1.06%	41.18%	-0.12%
2030	14,334	464,439	478,773	15,088	488,883	503,971	15,842	513,328	529,170	-26.33%	-1.34%	-2.33%	-26.33%	-1.34%
2031	30,559	453,286	483,845	32,167	477,143	509,311	33,776	501,001	534,776	113.20%	-2.40%	1.06%	113.20%	-2.40%
2032	30,894	474,400	504,934	32,520	498,989	531,509	34,146	523,399	558,084	1.09%	4.58%	1.09%	4.58%	1.09%
2033	31,209	479,082	510,292	32,852	504,297	537,149	34,495	529,512	564,007	1.02%	1.06%	1.02%	1.06%	1.06%
2034	14,696	501,010	515,706	15,469	527,379	542,848	16,243	553,748	569,991	-52.91%	4.58%	1.06%	-52.91%	4.58%
2035	20,759	500,422	521,181	21,852	526,760	548,612	22,944	553,098	576,042	41.26%	-0.12%	1.06%	41.26%	-0.12%
2036	32,221	475,577	507,798	33,917	500,796	534,713	35,613	525,836	561,449	55.21%	-4.93%	-2.53%	55.21%	-4.93%
2037	32,556	498,696	531,252	34,269	524,944	559,213	35,983	551,191	587,173	1.04%	4.82%	1.04%	4.82%	1.04%
2038	32,891	504,016	536,907	34,622	530,543	565,165	36,353	557,071	593,424	1.03%	1.07%	1.06%	1.03%	1.07%
2039	33,240	509,380	542,620	34,990	536,189	571,179	36,739	562,999	599,738	1.06%	1.06%	1.06%	1.06%	1.06%
2040	15,694	531,612	547,306	16,520	559,592	576,112	17,346	587,571	604,917	-52.79%	4.36%	0.86%	-52.79%	4.36%

Therms Usage by Class														
Low					Medium					High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	30,454,836	17,906,735	48,361,571	32,057,722	18,849,195	50,906,917	33,660,607	19,791,654	53,452,262	0.00%	0.00%	0.00%	0.00%	0.00%
2022	30,704,513	18,133,995	48,838,507	32,320,540	19,088,416	51,408,956	33,936,567	20,042,837	53,979,404	0.82%	1.27%	0.99%	0.82%	1.27%
2023	30,966,214	18,369,412	49,335,626	32,596,014	19,336,223	51,932,237	34,225,818	20,303,034	54,528,852	0.85%	1.30%	1.02%	0.85%	1.30%
2024	31,369,579	18,683,207	50,052,786	33,020,609	19,666,534	52,687,143	34,671,640	20,649,860	55,321,501	1.30%	1.71%	1.45%	1.30%	1.71%
2025	31,507,519	18,853,783	50,361,302	33,165,809	19,846,088	53,011,897	34,824,099	20,836,392	55,662,491	0.44%	0.91%	0.62%	0.44%	0.91%
2026	31,778,033	19,097,131	50,875,164	33,450,560	20,102,243	53,552,802	35,123,086	21,073,355	56,230,441	0.86%	1.29%	1.02%	0.86%	1.29%
2027	32,051,519	19,343,154	51,394,673	33,738,440	20,361,215	54,099,655	35,425,362	21,379,276	56,804,638	0.86%	1.29%	1.02%	0.86%	1.29%
2028	32,441,700	19,652,650	52,094,350	34,149,157	20,687,000	54,836,157	35,856,617	21,721,350	57,577,967	1.22%	1.60%	1.36%	1.22%	1.60%
2029	32,606,908	19,842,851	52,449,759	34,323,061	20,887,211	55,210,272	36,039,215	21,931,572	57,970,787	0.51%	0.97%	0.68%	0.51%	0.97%
2030	32,889,430	20,097,020	52,986,452	34,620,453	21,154,739	55,775,192	36,351,475	22,212,476	58,563,951	0.87%	1.28%	1.02%	0.87%	1.28%
2031	33,175,028	20,353,921	53,528,950	34,921,083	21,425,181	56,346,263	36,667,136	22,496,439	59,163,575	0.87%	1.28%	1.02%	0.87%	1.28%
2032	33,602,009	20,690,870	54,292,879	35,370,536	21,779,862	57,150,398	37,139,062	22,868,856	60,007,917	1.29%	1.66%	1.43%	1.29%	1.66%
2033	33,744,691	20,869,076	54,615,767	35,520,726	21,967,449	57,488,174	37,296,764	23,065,821	60,362,585	0.42%	0.86%	0.59%	0.42%	0.86%
2034	34,039,536	21,134,311	55,173,847	35,831,090	22,246,643	58,077,733	37,622,645	23,598,976	60,981,620	0.87%	1.27%	1.03%	0.87%	1.27%
2035	34,348,323	21,409,479	55,757,803	36,156,131	22,536,293	58,692,425	37,963,937	23,663,108	61,627,046	0.91%	1.30%	1.06%	0.91%	1.30%
2036	34,792,949	21,761,903	56,554,852	36,624,157	22,907,266	59,531,424	38,455,365	24,052,630	62,508,995	1.29%	1.65%	1.43%	1.29%	1.65%
2037	34,954,027	21,954,439	56,908,466	36,793,712	23,109,936	59,903,647	38,633,398	24,265,432	62,898,830	0.46%	0.88%	0.63%	0.46%	0.88%
2038	35,262,208	22,231,675	57,493,882	37,118,112	23,401,763</									



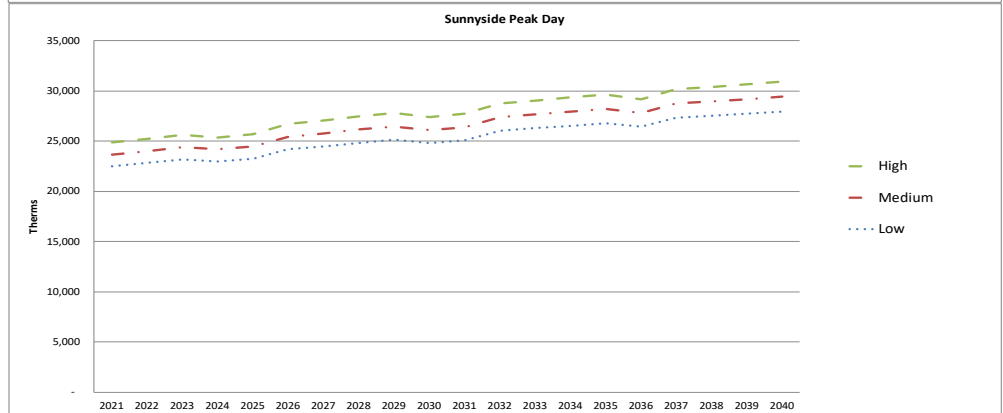
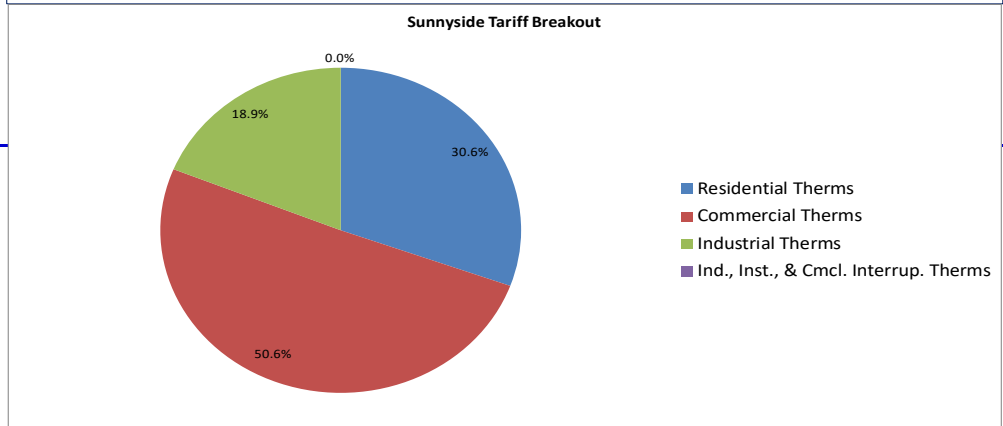
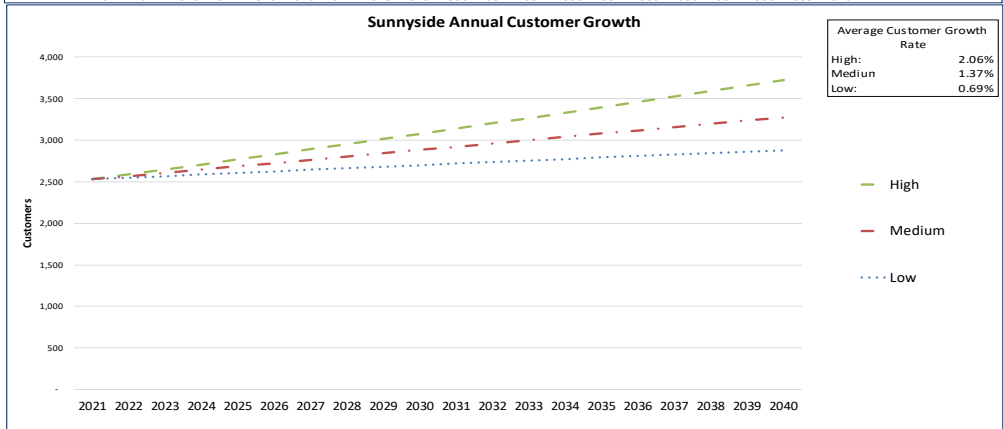
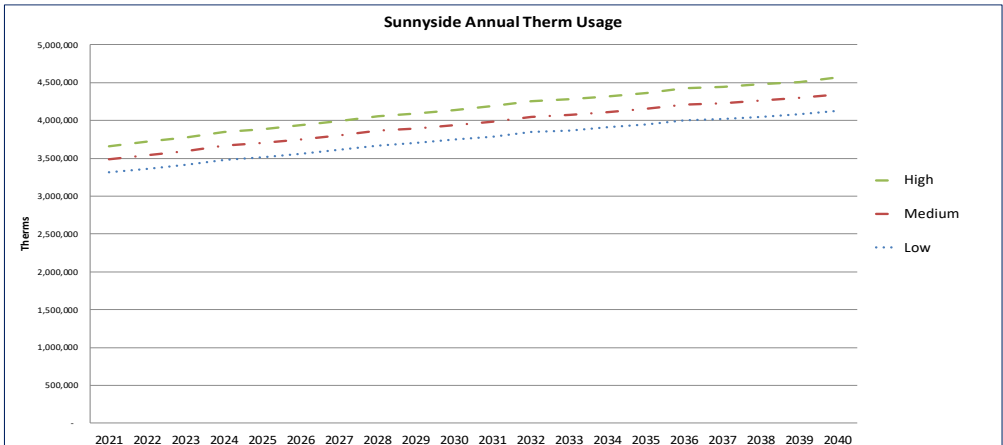
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Sunnyside															
Annual Requirements (Therms)										Annual Change					
Low			Medium			High			Low			Medium		High	
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	2,408,505	906,055	3,314,561	2,535,269	953,742	3,489,011	2,662,032	1,001,430	3,663,462	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,451,360	913,540	3,364,900	2,580,379	961,621	3,542,000	2,709,398	1,009,703	3,719,100	1.78%	0.83%	1.52%	1.78%	0.83%	1.52%
2023	2,488,151	927,238	3,415,389	2,619,106	976,040	3,595,146	2,750,601	1,024,842	3,774,904	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
2024	2,527,511	953,865	3,481,376	2,660,538	1,004,068	3,664,606	2,793,565	1,054,272	3,847,837	1.58%	2.87%	1.93%	1.58%	2.87%	1.93%
2025	2,550,478	964,721	3,515,199	2,684,714	1,015,495	3,700,209	2,818,949	1,066,270	3,885,219	0.91%	1.14%	0.97%	0.91%	1.14%	0.97%
2026	2,585,971	977,550	3,563,521	2,722,075	1,029,000	3,751,075	2,858,179	1,080,450	3,938,629	1.39%	1.33%	1.33%	1.39%	1.33%	1.33%
2027	2,622,985	987,903	3,610,888	2,761,037	1,039,898	3,800,935	2,899,089	1,091,893	3,990,982	1.43%	1.06%	1.33%	1.43%	1.06%	1.33%
2028	2,676,252	995,559	3,672,211	2,817,107	1,048,378	3,865,486	2,957,963	1,100,797	4,058,760	2.03%	0.82%	1.70%	2.03%	0.82%	1.70%
2029	2,687,276	1,014,919	3,702,195	2,828,712	1,068,335	3,897,047	2,970,148	1,121,752	4,091,900	0.41%	1.90%	0.82%	0.41%	1.90%	0.82%
2030	2,714,999	1,031,235	3,746,234	2,857,894	1,085,511	3,943,404	3,000,788	1,139,786	4,140,575	1.03%	1.61%	1.19%	1.03%	1.61%	1.19%
2031	2,748,966	1,040,088	3,789,054	2,893,649	1,094,830	3,988,478	3,038,331	1,149,571	4,187,902	1.25%	0.86%	1.14%	1.25%	0.86%	1.14%
2032	2,796,516	1,051,157	3,847,673	2,943,701	1,106,481	4,050,182	3,090,886	1,161,805	4,252,691	1.73%	1.06%	1.55%	1.73%	1.06%	1.55%
2033	2,815,950	1,055,120	3,870,171	2,963,211	1,110,653	4,073,864	3,111,371	1,166,186	4,277,557	0.66%	0.38%	0.58%	0.66%	0.38%	0.58%
2034	2,843,762	1,065,334	3,909,096	2,993,433	1,121,405	4,114,838	3,143,105	1,177,475	4,320,580	1.02%	0.97%	1.01%	1.02%	0.97%	1.01%
2035	2,864,882	1,082,336	3,947,219	3,015,666	1,139,302	4,154,967	3,166,449	1,196,267	4,362,716	0.74%	1.60%	0.98%	0.74%	1.60%	0.98%
2036	2,903,996	1,096,988	4,000,983	3,056,838	1,154,724	4,211,561	3,209,680	1,212,660	4,422,140	1.37%	1.35%	1.37%	1.35%	1.36%	1.37%
2037	2,911,888	1,105,812	4,017,701	3,065,145	1,164,013	4,229,159	3,218,403	1,222,214	4,440,616	0.27%	0.80%	0.42%	0.27%	0.80%	0.42%
2038	2,939,372	1,115,560	4,050,932	3,094,075	1,170,604	4,264,139	3,248,779	1,228,567	4,477,346	0.94%	0.52%	0.83%	0.94%	0.52%	0.83%
2039	2,969,414	1,112,927	4,082,341	3,125,699	1,171,502	4,297,201	3,281,984	1,230,077	4,512,061	1.02%	0.12%	0.78%	1.02%	0.12%	0.78%
2040	3,000,764	1,130,944	4,131,709	3,158,699	1,190,468	4,349,167	3,316,634	1,249,991	4,566,625	1.06%	1.62%	1.21%	1.06%	1.62%	1.21%

Peak Day - BaseLoad										Annual Change					
Low			Medium			High			Low			Medium		High	
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	2,482	19,999	22,481	2,613	21,051	23,664	2,744	22,104	24,848	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	2,503	20,317	22,820	2,635	21,386	24,021	2,766	22,456	25,222	0.83%	1.59%	1.51%	0.83%	1.59%	
2023	2,540	20,615	23,156	2,674	21,700	24,374	2,808	22,785	25,593	1.50%	1.47%	1.47%	1.50%	1.47%	
2024	2,613	20,342	22,956	2,751	21,413	24,164	2,888	22,484	25,372	2.87%	-1.32%	-0.86%	2.87%	-1.32%	
2025	2,643	20,623	23,275	2,782	21,718	24,500	2,921	22,804	25,425	1.14%	1.43%	1.43%	1.14%	1.39%	
2026	2,678	21,496	24,175	2,819	22,628	25,447	2,960	23,759	26,719	1.33%	4.19%	3.86%	1.33%	4.19%	
2027	2,707	21,782	24,488	2,849	22,928	25,777	2,991	24,074	27,066	1.06%	1.33%	1.30%	1.06%	1.33%	
2028	2,729	22,106	24,835	2,872	23,270	26,142	3,016	24,433	27,449	0.82%	1.49%	1.42%	0.82%	1.49%	
2029	2,781	22,353	25,133	2,927	23,529	26,456	3,073	24,706	27,779	1.90%	1.12%	1.20%	1.90%	1.12%	
2030	2,825	21,983	24,808	2,974	23,140	26,114	3,123	24,297	27,419	1.61%	-1.66%	-1.29%	1.61%	-1.66%	
2031	2,850	22,234	25,083	3,000	23,404	26,403	3,150	24,574	27,724	0.86%	1.14%	1.11%	0.86%	1.14%	
2032	2,880	23,143	26,023	3,031	24,361	27,392	3,183	25,579	28,762	1.06%	4.09%	3.74%	1.06%	4.09%	
2033	2,891	23,396	26,287	3,043	24,628	27,671	3,195	25,859	29,054	0.38%	1.10%	1.02%	0.38%	1.10%	
2034	2,919	23,624	26,542	3,072	24,867	27,939	3,226	26,110	29,336	0.97%	0.97%	0.97%	0.97%	0.97%	
2035	2,965	23,822	26,787	3,121	25,076	28,197	3,277	26,330	29,607	1.60%	0.84%	0.92%	1.60%	0.84%	
2036	3,005	23,407	26,413	3,164	24,639	27,803	3,322	25,871	29,193	1.35%	-1.74%	-1.40%	1.35%	-1.74%	
2037	3,030	24,263	27,292	3,189	25,540	28,729	3,349	26,816	30,165	0.80%	3.65%	3.33%	0.80%	3.65%	
2038	3,045	24,463	27,508	3,206	25,750	28,956	3,366	27,038	30,404	0.52%	0.82%	0.79%	0.52%	0.82%	
2039	3,049	24,667	27,716	3,210	25,965	29,174	3,370	27,263	30,633	0.12%	0.83%	0.75%	0.12%	0.83%	
2040	3,098	24,864	27,963	3,262	26,173	29,435	3,425	27,482	30,906	1.62%	0.80%	0.89%	1.62%	0.80%	

Therms Usage by Class										Annual Change					
Low			Medium			High			Low			Medium		High	
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	1,027,287	2,287,274	3,314,561	1,081,354	2,407,657	3,489,011	1,135,422	2,528,400	3,663,462	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	1,043,124	2,321,776	3,364,900	1,098,026	2,443,975	3,542,000	1,152,927	2,565,173	3,719,100	1.54%	1.51%	1.52%	1.54%	1.51%	
2023	1,058,997	2,356,392	3,415,389	1,114,734	2,480,413	3,595,146	1,170,470	2,604,433	3,774,904	1.52%	1.49%	1.50%	1.52%	1.49%	
2024	1,080,293	2,401,083	3,481,376	1,137,150	2,527,456	3,664,606	1,194,080	2,653,829	3,847,837	2.01%	1.90%	1.93%	2.01%	1.90%	
2025	1,090,347	2,424,851	3,515,199	1,147,734	2,552,475	3,700,209	1,205,121	2,680,099	3,885,219	0.93%	0.99%	0.97%	0.93%	0.99%	
2026	1,105,538	2,457,982	3,563,521	1,163,725	2,587,350	3,751,075	1,221,912	2,716,717	3,938,629	1.39%	1.37%	1.39%	1.37%	1.37%	
2027	1,120,430	2,490,458	3,610,888	1,179,400	2,621,535	3,800,935	1,238,370	2,752,511	3,990,982	1.35%	1.32%	1.35%	1.35%	1.32%	
2028	1,140,332	2,531,880	3,672,211	1,200,349	2,665,136	3,865,486	1,260,367	2,798,393	4,058,760	1.78%	1.66%	1.70%	1.78%	1.66%	
2029	1,149,120	2,553,075	3,702,195	1,209,600	2,687,447	3,897,047	1,270,080	2,821,819	4,091,900	0.77%	0.84%	0.82%	0.77%	0.84%	
2030	1,162,966	2,583,268	3,746,234	1,224,175	2,719,230	3,943,404	1,285,383	2,855,191	4,140,575	1.20%	1.18%	1.20%	1.18%	1.20%	
2031	1,176,428	2,612,626	3,789,054	1,238,345	2,750,133	3,988,478	1,300,263	2,887,639	4,187,902	1.16%	1.14%	1.14%	1.16%	1.14%	
2032	1,195,485	2,652,188	3,847,673	1,258,405	2,791,777	4,050,182	1,321,325	2,931,366	4,252,691	1.62%	1.51%	1.55%	1.62%	1.51%	
2033	1,201,929	2,668,242	3,870,171	1,265,188	2,808,676	4,073,864	1,328,447	2,949,110	4,277,557	0.54%	0.61%	0.58%	0.54%	0.61%	
2034	1,214,167	2,694,929	3,909,096	1,278,070	2,836,768	4,114,838	1,341,974	2,978,606	4,320,580	1.02%	1.00%	1.02%	1.00%	1.02%	
2035	1,226,139	2,721,079	3,947,219	1,290,673	2,864,294	4,154,967	1,355,207	3,007,509	4,362,716	0.99%	0.97%	0.98%	0.99%	0.97%	
2036	1,243,697	2,757,286	4,000,983	1,309,155	2,902,407	4,211,561	1,374,613	3,047,527	4,422,140	1.43%	1.33%	1.33%	1.43%	1.33%	
2037	1,248,284	2,769,417	4,017,701	1,313,983	2,915,175	4,229,159	1,379,682	3,060,934	4,440,616	0.37%	0.44%	0.42%	0.37%	0.44%	
2038	1,258,733	2,792,200	4,050,932	1,324,982	2,939,157	4,264,139	1,391,231	3,086,115	4,477,346	0.84%	0.82%	0.83%	0.84%	0.82%	
2039	1,268,622	2,813,719	4,082,341	1,335,392	2,961,809	4,297,201	1,402,161	3,109,900	4,512,061	0.79%	0.77%	0.78%	0.79%	0.77%	
2040	1,284,821	2,846,887	4,131,709	1,352,444	2,996,723	4,349,167	1,420,066	3,146,560	4,566,625	1.28%	1.18%	1.21%	1.28%	1.18%	

Customer Count Forecast										Annual Change					
Low			Medium			High			Low			Medium		High	
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	1,976	554	2,529	1,976	554	2,529	1,976	554	2,529	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	1,991	558	2,549	2,006	562	2,568	2,021	567	2,587	0.76%	0.78%	0.77%	0.76%	0.78%	
2023	2,006	563	2,569	2,036	573	2,609	2,067	582	2,649	0.76%	0.91%	0.79%	0.76%	0.91%	
2024	2,021	567	2,588	2,067	581	2,647	2,113	595	2,708	0.					

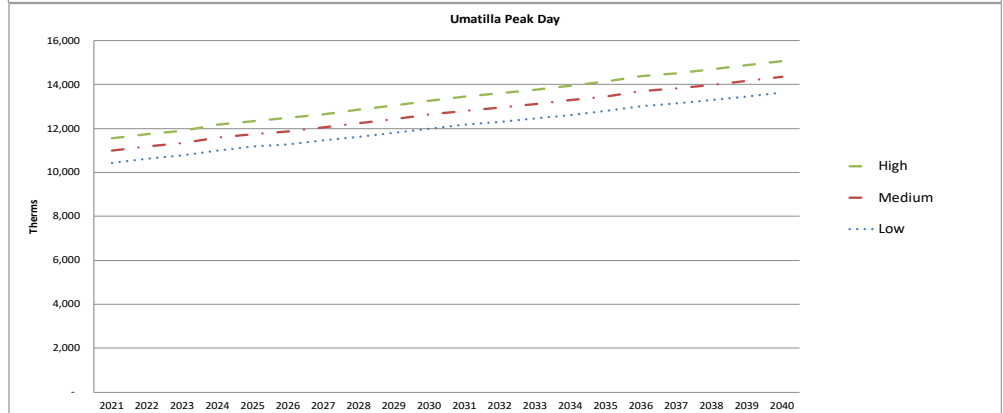
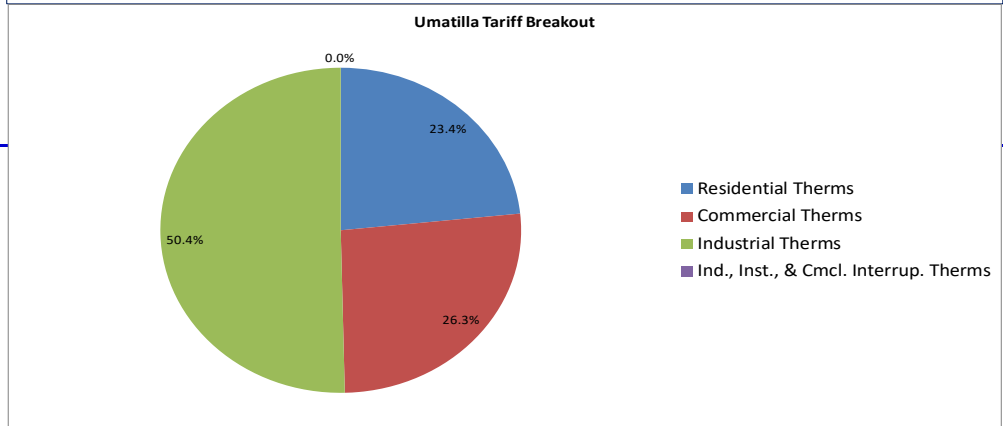
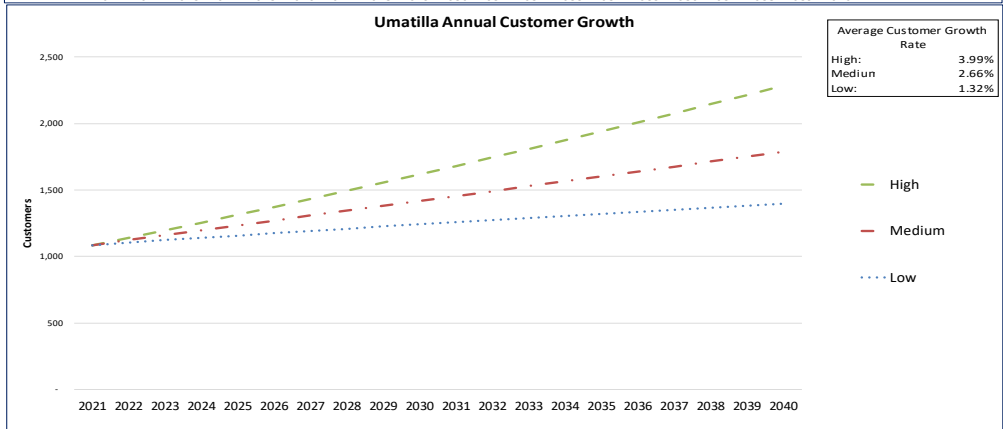
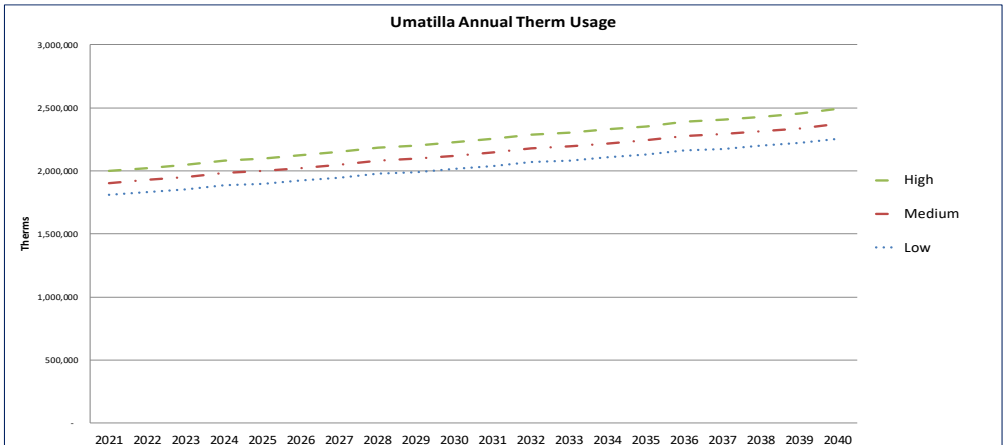


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Umatilla																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	1,000,607	807,733	1,808,340	1,053,270	850,245	1,903,516	1,105,934	892,758	1,998,692	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,016,370	814,964	1,831,334	1,069,863	857,857	1,927,720	1,123,357	900,750	2,024,106	1.58%	0.90%	1.27%	1.58%	0.90%	1.27%	1.58%	0.90%
2023	1,032,523	821,763	1,854,286	1,086,867	865,014	1,951,880	1,141,210	908,264	2,049,474	1.59%	0.83%	1.25%	1.59%	0.83%	1.25%	1.59%	0.83%
2024	1,060,225	824,774	1,884,999	1,116,027	868,183	1,984,210	1,171,828	911,592	2,083,420	2.68%	0.37%	1.66%	2.68%	0.37%	1.66%	2.68%	0.37%
2025	1,068,741	831,514	1,900,255	1,124,990	875,278	2,000,268	1,181,240	919,042	2,100,282	0.80%	0.82%	0.81%	0.80%	0.82%	0.81%	0.80%	0.82%
2026	1,084,926	838,280	1,923,206	1,142,027	882,400	2,024,428	1,199,129	926,520	2,125,649	1.51%	0.81%	1.21%	1.51%	0.81%	1.21%	1.51%	0.81%
2027	1,100,548	845,607	1,946,155	1,158,472	890,113	2,048,585	1,216,395	934,619	2,151,014	1.44%	0.87%	1.19%	1.44%	0.87%	1.19%	1.44%	0.87%
2028	1,127,364	850,097	1,977,462	1,186,699	894,840	2,081,539	1,246,034	939,581	2,185,616	2.44%	0.53%	1.61%	2.44%	0.53%	1.61%	2.44%	0.53%
2029	1,135,823	856,345	1,992,168	1,195,603	901,415	2,097,019	1,255,383	946,486	2,201,870	0.75%	0.73%	0.74%	0.75%	0.73%	0.74%	0.75%	0.73%
2030	1,152,533	862,588	2,015,121	1,213,193	907,987	2,121,180	1,273,853	953,387	2,227,239	1.47%	0.73%	1.15%	1.47%	0.73%	1.15%	1.47%	0.73%
2031	1,168,654	869,419	2,038,073	1,230,162	915,178	2,145,340	1,291,670	960,937	2,252,607	1.40%	0.79%	1.14%	1.40%	0.79%	1.14%	1.40%	0.79%
2032	1,195,919	873,813	2,069,732	1,258,862	919,803	2,178,665	1,321,805	965,793	2,287,599	2.33%	0.51%	1.55%	2.33%	0.51%	1.55%	2.33%	0.51%
2033	1,202,919	881,216	2,084,135	1,266,231	927,596	2,193,827	1,329,542	973,976	2,303,518	0.59%	0.85%	0.70%	0.59%	0.85%	0.70%	0.59%	0.85%
2034	1,218,989	888,097	2,107,086	1,283,146	934,839	2,217,985	1,347,304	981,581	2,328,884	1.34%	0.78%	1.10%	1.34%	0.78%	1.10%	1.34%	0.78%
2035	1,235,393	894,393	2,129,787	1,300,625	941,467	2,242,092	1,365,656	988,540	2,354,196	1.36%	0.71%	1.09%	1.36%	0.71%	1.09%	1.36%	0.71%
2036	1,264,631	897,468	2,162,099	1,331,191	944,703	2,275,894	1,397,750	991,538	2,389,688	2.35%	0.34%	1.51%	2.35%	0.34%	1.51%	2.35%	0.34%
2037	1,271,678	904,319	2,175,998	1,338,609	951,915	2,290,524	1,405,539	999,511	2,405,050	0.56%	0.76%	0.64%	0.56%	0.64%	0.64%	0.56%	0.64%
2038	1,287,124	911,825	2,198,949	1,354,867	959,816	2,314,683	1,422,610	1,007,807	2,430,417	1.21%	0.83%	1.05%	1.21%	0.83%	1.05%	1.21%	0.83%
2039	1,302,577	919,376	2,221,953	1,371,134	967,764	2,338,898	1,439,690	1,016,153	2,455,843	1.20%	0.83%	1.05%	1.20%	0.83%	1.05%	1.20%	0.83%
2040	1,332,187	922,333	2,254,520	1,402,302	970,877	2,373,179	1,472,417	1,019,421	2,491,838	2.27%	0.32%	1.47%	2.27%	0.32%	1.47%	2.27%	0.32%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	2,213	8,241	10,454	2,329	8,675	11,004	2,446	9,109	11,554	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,233	8,385	10,618	2,350	8,826	11,176	2,468	9,267	11,735	0.90%	1.74%	1.56%	0.90%	1.74%	1.56%	0.90%	1.74%
2023	2,251	8,530	10,781	2,370	8,978	11,348	2,488	9,427	11,916	0.83%	1.73%	1.54%	0.83%	1.73%	1.54%	0.83%	1.73%
2024	2,260	8,748	11,008	2,379	9,209	11,588	2,498	9,669	12,167	0.37%	2.57%	2.11%	0.37%	2.57%	2.11%	0.37%	2.57%
2025	2,278	8,894	11,172	2,398	9,362	11,760	2,518	9,830	12,348	0.82%	1.69%	1.49%	0.82%	1.69%	1.49%	0.82%	1.69%
2026	2,297	8,991	11,288	2,418	9,464	11,882	2,538	9,938	12,476	0.81%	0.99%	1.04%	0.81%	0.99%	1.04%	0.81%	0.99%
2027	2,317	9,134	11,451	2,439	9,615	12,054	2,561	10,096	12,656	0.87%	1.59%	1.44%	0.87%	1.59%	1.44%	0.87%	1.59%
2028	2,329	9,303	11,632	2,452	9,793	12,245	2,574	10,283	12,857	0.53%	1.85%	1.58%	0.53%	1.85%	1.58%	0.53%	1.85%
2029	2,346	9,449	11,795	2,470	9,947	12,416	2,593	10,444	13,037	0.73%	1.57%	1.40%	0.73%	1.57%	1.40%	0.73%	1.57%
2030	2,363	9,646	12,009	2,488	10,154	12,641	2,612	10,641	13,273	0.73%	2.08%	1.81%	0.73%	2.08%	1.81%	0.73%	2.08%
2031	2,382	9,791	12,173	2,507	10,306	12,813	2,633	10,821	13,454	0.79%	1.50%	1.36%	0.79%	1.50%	1.36%	0.79%	1.50%
2032	2,394	9,909	12,303	2,520	10,431	12,951	2,646	10,952	13,598	0.51%	1.21%	1.07%	0.51%	1.21%	1.07%	0.51%	1.21%
2033	2,414	10,052	12,466	2,541	10,581	13,122	2,668	11,110	13,778	0.85%	1.44%	1.32%	0.85%	1.44%	1.32%	0.85%	1.44%
2034	2,433	10,195	12,628	2,561	10,732	13,293	2,689	11,269	13,958	0.78%	1.43%	1.30%	0.78%	1.43%	1.30%	0.78%	1.43%
2035	2,450	10,340	12,791	2,579	10,885	13,464	2,708	11,429	14,137	0.71%	1.42%	1.28%	0.71%	1.42%	1.28%	0.71%	1.42%
2036	2,459	10,571	13,030	2,588	11,127	13,715	2,718	11,683	14,401	0.34%	2.23%	1.87%	0.34%	2.23%	1.87%	0.34%	2.23%
2037	2,478	10,659	13,137	2,608	11,220	13,828	2,738	11,781	14,519	0.76%	0.84%	0.82%	0.76%	0.84%	0.82%	0.76%	0.84%
2038	2,498	10,801	13,299	2,630	11,369	13,999	2,761	11,938	14,699	0.83%	1.33%	1.23%	0.83%	1.33%	1.23%	0.83%	1.33%
2039	2,519	10,942	13,461	2,651	11,518	14,169	2,784	12,094	14,878	0.83%	1.31%	1.22%	0.83%	1.31%	1.22%	0.83%	1.31%
2040	2,527	11,118	13,645	2,660	11,704	14,364	2,793	12,289	15,082	0.32%	1.61%	1.37%	0.32%	1.61%	1.37%	0.32%	1.61%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	410,560	1,397,780	1,808,340	432,169	1,471,347	1,903,516	453,777	1,544,914	1,998,692	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	423,478	1,407,857	1,831,334	445,766	1,481,954	1,927,720	468,054	1,556,052	2,024,106	3.15%	0.72%	1.27%	3.15%	0.72%	1.27%	3.15%	0.72%
2023	436,382	1,417,904	1,854,286	459,350	1,492,531	1,951,880	482,317	1,567,157	2,049,474	3.05%	0.71%	1.25%	3.05%	0.71%	1.25%	3.05%	0.71%
2024	451,604	1,433,395	1,884,999	475,372	1,508,837	1,984,210	499,141	1,584,279	2,083,420	3.49%	1.09%	1.66%	3.49%	1.09%	1.66%	3.49%	1.09%
2025	462,243	1,438,012	1,900,255	486,571	1,513,697	2,000,268	510,900	1,589,382	2,100,282	2.36%	0.32%	0.81%	2.36%	0.32%	0.81%	2.36%	0.32%
2026	475,146	1,448,660	1,923,206	500,154	1,524,274	2,024,428	525,162	1,600,487	2,125,649	2.79%	0.70%	1.21%	2.79%	0.70%	1.21%	2.79%	0.70%
2027	488,050	1,458,105	1,946,155	513,737	1,534,848	2,048,585	539,424	1,611,590	2,151,014	2.72%	0.69%	1.19%	2.72%	0.69%	1.19%	2.72%	0.69%
2028	503,581	1,473,881	1,977,462	530,085	1,551,453	2,081,539	556,590	1,629,026	2,185,616	3.18%	1.08%	1.61%	3.18%	1.08%	1.61%	3.18%	1.08%
2029	513,925	1,478,243	1,992,168	540,974	1,556,045	2,097,019	568,022	1,633,847	2,201,870	2.05%	0.30%	0.74%	2.05%	0.30%	0.74%	2.05%	0.30%
2030	526,829	1,488,293	2,015,121	554,557	1,566,624	2,121,180	582,284	1,644,955	2,227,239	2.51%	0.68%	1.15%	2.51%	0.68%	1.15%	2.51%	0.68%
2031	539,733	1,498,340	2,038,073	568,140	1,577,200	2,145,340	596,547	1,656,600	2,252,607	2.45%	0.68%	1.14%	2.45%	0.68%	1.14%	2.45%	0.68%
2032	555,495	1,514,237	2,069,732	584,732	1,593,934	2,178,665	613,968	1,673,630	2,287,599	2.92%	1.06%	1.55%	2.92%	1.06%	1.55%	2.92%	1.06%
2033	565,625	1,518,511	2,084,135	595,394	1,598,432	2,193,827	625,164	1,678,354	2,303,518	1.82%	0.28%	0.70%	1.82%	0.28%	0.70%	1.82%	0.28%
2034	578,529	1,528,557	2,107,086	608,978	1,609,007	2,217,985	639,427	1,689,457	2,328,884	2.28%	0.66%	1.10%	2.28%	0.66%	1.10%	2.28%	0.66%
2035	591,415	1,538,572	2,129,987	622,542	1,619,549	2,242,092	653,669	1,700,527	2,354,196	2.23%	0.66%	1.09%	2.23%	0.66%	1.09%	2.23%	0.66%
2036	607,441	1,554,658	2,162,099	639,412	1,636,482	2,275,894	671,382	1,718,306	2,389,688	2.71%	0.51%	1.51%	2.71%	0.51%	1.51%	2.71%	0.51%
2037	617,289	1,558,709	2,175,998	649,778	1,640,746	2,290,524	682,267	1,722,784	2,405,050	1.62%	0.26%	0.64%	1.62%	0.26%	0.64%	1.62%	0.26%
2038	630,193	1,568,756	2,198,949	663,361	1,651,322	2,314,683	696,529	1,733,888	2,430,417	2.09%	0.64%	1.05%					

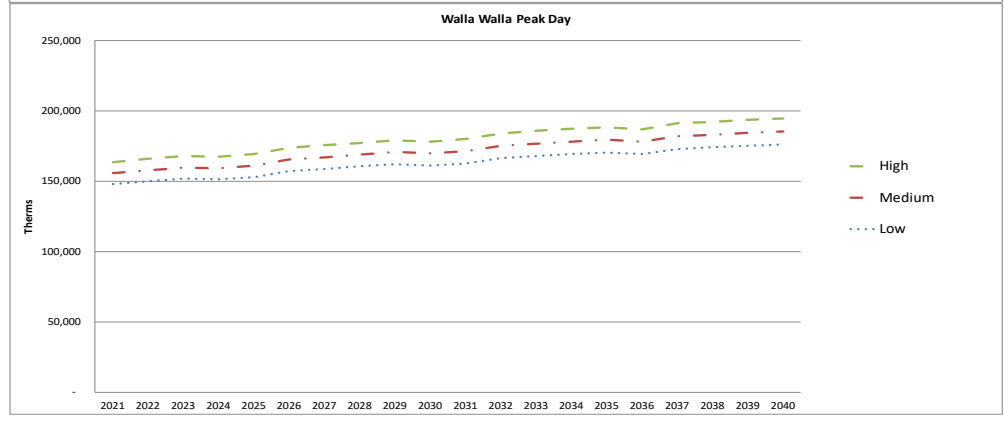
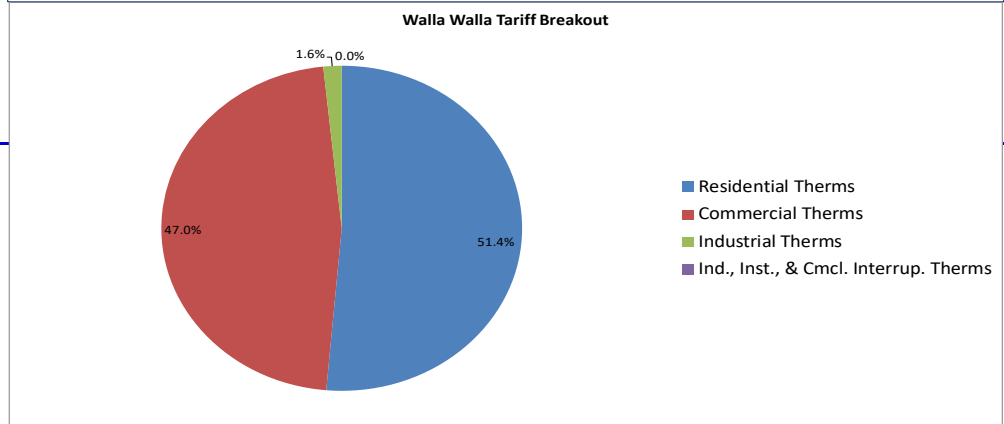
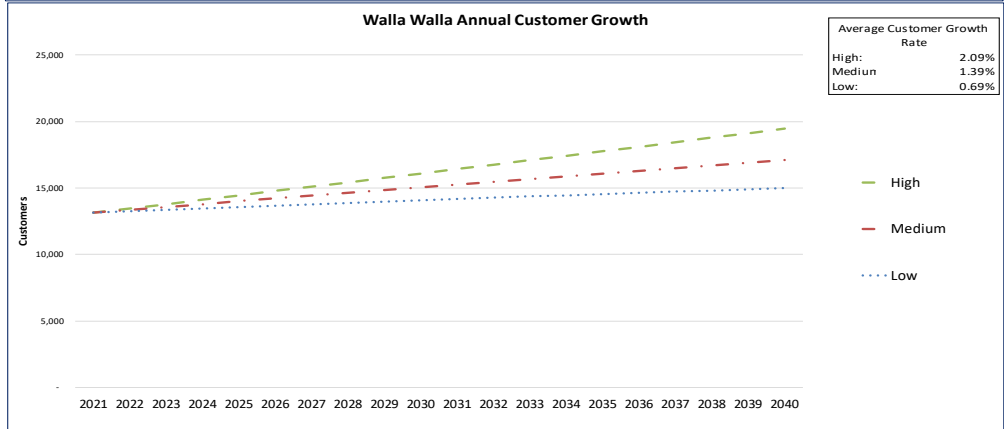
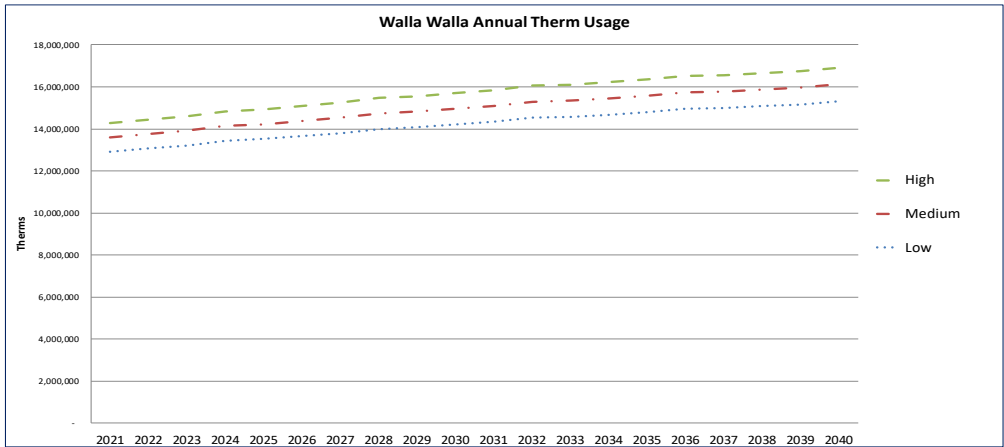


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Walla Walla																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	9,035,028	3,869,929	12,904,956	9,510,555	4,073,609	13,584,164	9,986,083	4,277,289	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	9,175,350	3,894,055	13,069,404	9,658,262	4,099,005	13,757,268	10,141,176	4,303,956	14,445,131	1.55%	0.62%	1.27%	1.55%	0.62%	1.27%	1.55%	0.62%
2023	9,283,802	3,934,398	13,218,200	9,772,423	4,141,471	13,913,894	10,261,044	4,348,545	14,609,589	1.18%	1.04%	1.14%	1.18%	1.04%	1.14%	1.18%	1.04%
2024	9,419,571	4,007,918	13,427,490	9,915,339	4,218,861	14,134,200	10,411,106	4,429,804	14,840,910	1.46%	1.87%	1.58%	1.46%	1.87%	1.58%	1.46%	1.87%
2025	9,461,753	4,052,442	13,514,195	9,959,740	4,265,728	14,225,469	10,457,728	4,479,014	14,936,742	0.45%	1.11%	0.65%	0.45%	1.11%	0.65%	0.45%	1.11%
2026	9,565,366	4,097,564	13,662,931	10,068,806	4,313,226	14,382,032	10,572,247	4,528,887	15,101,134	1.10%	1.11%	1.10%	1.10%	1.11%	1.10%	1.11%	1.10%
2027	9,691,567	4,114,049	13,805,616	10,201,560	4,330,578	14,532,227	10,711,732	4,547,107	15,258,838	1.32%	1.40%	1.04%	1.32%	1.40%	1.04%	1.32%	1.40%
2028	9,874,195	4,126,572	14,000,767	10,393,890	4,343,759	14,737,649	10,913,584	4,560,948	15,474,532	1.88%	1.30%	1.41%	1.88%	1.30%	1.41%	1.88%	1.30%
2029	9,896,433	4,182,407	14,078,840	10,417,298	4,402,534	14,819,832	10,938,163	4,622,661	15,560,824	0.23%	1.35%	0.56%	0.23%	1.35%	0.56%	0.23%	1.35%
2030	9,973,312	4,237,771	14,211,082	10,498,224	4,460,811	14,959,034	11,023,135	4,683,852	15,706,986	0.78%	1.32%	0.94%	0.78%	1.32%	0.94%	0.78%	1.32%
2031	10,061,286	4,277,231	14,338,517	10,590,828	4,502,349	15,093,176	11,120,369	4,727,466	15,847,835	0.88%	0.93%	0.90%	0.88%	0.93%	0.90%	0.88%	0.93%
2032	10,235,282	4,288,471	14,523,753	10,773,981	4,514,179	15,288,161	11,312,680	4,739,889	16,052,569	1.73%	0.26%	1.29%	1.73%	0.26%	1.29%	1.73%	0.26%
2033	10,276,308	4,296,287	14,572,595	10,817,166	4,522,408	15,339,573	11,358,024	4,748,528	16,106,552	0.40%	0.18%	0.34%	0.40%	0.18%	0.34%	0.40%	0.18%
2034	10,354,975	4,325,729	14,680,704	10,899,974	4,553,399	15,453,372	11,444,972	4,781,069	16,226,041	0.77%	0.69%	0.74%	0.77%	0.69%	0.74%	0.77%	0.69%
2035	10,413,679	4,374,618	14,788,297	10,961,767	4,604,862	15,566,629	11,509,856	4,835,104	16,344,960	0.57%	1.13%	0.73%	0.57%	1.13%	0.73%	0.57%	1.13%
2036	10,529,753	4,424,666	14,954,419	11,083,950	4,657,544	15,741,493	11,638,147	4,890,421	16,528,568	1.11%	1.14%	1.12%	1.11%	1.14%	1.12%	1.11%	1.14%
2037	10,528,314	4,455,474	14,983,788	11,082,436	4,689,972	15,772,408	11,636,558	4,924,470	16,561,028	-0.01%	0.70%	0.20%	-0.01%	0.70%	0.20%	-0.01%	0.70%
2038	10,619,720	4,455,866	15,075,587	11,178,654	4,690,385	15,869,039	11,737,586	4,924,905	16,662,490	0.87%	0.01%	0.61%	0.87%	0.01%	0.61%	0.87%	0.01%
2039	10,705,106	4,454,361	15,159,467	11,268,534	4,688,800	15,957,334	11,831,960	4,923,240	16,755,201	0.80%	-0.03%	0.56%	0.80%	-0.03%	0.56%	0.80%	-0.03%
2040	10,814,137	4,495,724	15,309,862	11,383,303	4,732,341	16,115,644	11,952,468	4,968,958	16,921,426	1.02%	0.93%	0.99%	1.02%	0.93%	0.99%	1.02%	0.93%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	10,603	137,469	148,072	11,161	144,704	155,865	11,719	151,940	163,658	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	10,669	139,404	150,073	11,230	146,741	157,971	11,792	154,078	165,870	0.62%	1.41%	1.35%	0.62%	1.41%	1.35%	0.62%	1.41%
2023	10,779	141,083	151,862	11,346	148,509	159,855	11,914	155,934	167,848	1.04%	1.20%	1.19%	1.04%	1.20%	1.19%	1.04%	1.20%
2024	10,981	140,370	151,350	11,559	147,757	159,316	12,136	155,145	167,282	1.87%	-0.51%	-0.34%	1.87%	-0.51%	-0.34%	1.87%	-0.51%
2025	11,103	141,896	152,009	11,687	149,459	161,146	12,271	156,233	168,203	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%
2026	11,226	145,920	157,146	11,817	153,600	165,417	12,408	161,280	173,688	1.11%	2.77%	2.65%	1.11%	2.77%	2.65%	1.11%	2.77%
2027	11,271	147,591	158,862	11,865	155,359	167,224	12,458	163,127	175,585	0.40%	1.15%	1.09%	0.40%	1.15%	1.09%	0.40%	1.15%
2028	11,306	149,172	160,477	11,901	157,023	168,923	12,496	164,874	177,370	0.30%	1.07%	1.02%	0.30%	1.07%	1.02%	0.30%	1.07%
2029	11,459	150,654	162,112	12,062	158,583	170,644	12,665	166,512	179,177	1.35%	0.99%	1.02%	1.35%	0.99%	1.02%	1.35%	0.99%
2030	11,610	149,710	161,321	12,221	157,590	169,811	12,832	165,659	178,302	1.32%	-0.63%	-0.49%	1.32%	-0.63%	-0.49%	1.32%	-0.63%
2031	11,718	151,115	162,834	12,335	159,669	171,404	12,952	167,022	179,974	0.93%	0.94%	0.94%	0.93%	0.94%	0.94%	0.93%	0.94%
2032	11,749	154,902	166,652	12,368	163,055	175,423	12,986	171,208	184,194	0.26%	2.51%	2.34%	0.26%	2.51%	2.34%	0.26%	2.51%
2033	11,711	156,729	168,050	12,390	164,505	176,895	13,010	172,730	185,740	0.18%	0.89%	0.84%	0.18%	0.89%	0.84%	0.18%	0.89%
2034	11,851	157,503	169,354	12,475	165,792	178,267	13,099	174,082	187,181	0.69%	0.88%	0.78%	0.69%	0.88%	0.78%	0.69%	0.88%
2035	11,985	158,637	170,622	12,616	166,986	179,602	13,247	175,335	188,582	1.13%	0.72%	0.75%	1.13%	0.72%	0.75%	1.13%	0.72%
2036	12,122	157,167	169,290	12,760	165,439	178,200	13,398	173,711	187,110	1.14%	-0.93%	-0.78%	1.14%	-0.93%	-0.78%	1.14%	-0.93%
2037	12,207	160,738	172,944	12,849	169,197	182,047	13,492	177,657	191,149	0.70%	2.27%	2.16%	0.70%	2.27%	2.16%	0.70%	2.27%
2038	12,208	161,845	174,053	12,850	170,364	183,214	13,493	178,882	192,375	0.01%	0.69%	0.64%	0.01%	0.69%	0.64%	0.01%	0.69%
2039	12,204	162,894	175,097	12,846	171,467	184,313	13,488	180,040	193,529	-0.03%	0.65%	0.60%	-0.03%	0.65%	0.60%	-0.03%	0.65%
2040	12,317	163,736	176,054	12,965	172,354	185,319	13,614	180,972	194,585	0.93%	0.52%	0.55%	0.93%	0.52%	0.55%	0.93%	0.52%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	6,650,238	6,254,718	12,904,956	7,000,250	6,583,913	13,584,164	7,350,263	6,913,109	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,748,586	6,320,819	13,069,404	7,103,774	6,653,494	13,757,268	7,458,963	6,986,168	14,445,131	1.48%	1.06%	1.27%	1.48%	1.06%	1.27%	1.48%	1.06%
2023	6,837,885	6,380,315	13,218,200	7,197,773	6,716,121	13,913,894	7,557,662	7,051,927	14,609,589	1.32%	0.94%	1.14%	1.32%	0.94%	1.14%	1.32%	0.94%
2024	6,959,544	6,467,945	13,427,490	7,325,836	6,808,364	14,134,200	7,692,128	7,148,782	14,840,910	1.78%	1.37%	1.58%	1.78%	1.37%	1.58%	1.78%	1.37%
2025	7,015,378	6,498,817	13,514,195	7,384,609	6,840,860	14,225,469	7,753,839	7,182,903	14,936,742	0.80%	0.48%	0.65%	0.80%	0.48%	0.65%	0.80%	0.48%
2026	7,104,680	6,558,251	13,662,931	7,478,611	6,903,422	14,382,032	7,852,541	7,248,599	15,101,134	1.27%	0.91%	1.10%	1.27%	0.91%	1.10%	1.27%	0.91%
2027	7,190,522	6,615,094	13,805,616	7,568,970	6,963,257	14,532,227	7,947,419	7,311,420	15,258,838	1.21%	0.87%	1.04%	1.21%	0.87%	1.04%	1.21%	0.87%
2028	7,304,694	6,696,073	14,000,767	7,689,151	7,048,497	14,737,649	8,073,609	7,400,922	15,474,532	1.59%	1.22%	1.41%	1.59%	1.22%	1.41%	1.59%	1.22%
2029	7,355,195	6,723,645	14,078,840	7,742,311	7,077,521	14,819,832	8,129,427	7,431,397	15,560,824	0.69%	0.41%	0.56%	0.69%	0.41%	0.56%	0.69%	0.41%
2030	7,435,071	6,776,012	14,211,082	7,826,390	7,132,644	14,959,034	8,217,710	7,489,276	15,706,986	1.09%	0.78%	0.94%	1.09%	0.78%	0.94%	1.09%	0.78%
2031	7,512,200	6,826,317	14,338,517	7,907,579	7,185,597	15,093,176	8,302,958	7,544,877	15,847,835	1.04%	0.74%	0.90%	1.04%	0.74%	0.90%	1.04%	0.74%
2032	7,620,511	6,903,242	14,523,753	8,021,590	7,266,571	15,288,161	8,422,670	7,629,900	16,052,569	1.44%	1.13%	1.29%	1.44%	1.13%	1.29%	1.44%	1.13%
2033	7,654,637	6,917,958	14,572,595	8,057,512	7,282,061	15,339,573	8,460,388	7,646,164	16,106,552	0.45%	0.21%	0.34%	0.45%	0.21%	0.34%	0.45%	0.21%
2034	7,720,674	6,960,029	14,680,704	8,127,026	7,326,346	15,453,372	8,533,777	7,692,664	16,226,041	0.86%	0.61%	0.74%	0.86%	0.61%	0.74%	0.86%	0.61%
2035	7,786,295	7,002,002	14,788,297	8,196,100	7,370,528	15,566,629	8,605,905	7,739,055	16,344,960	0.85%	0.60%	0.73%	0.85%	0.60%	0.73%		

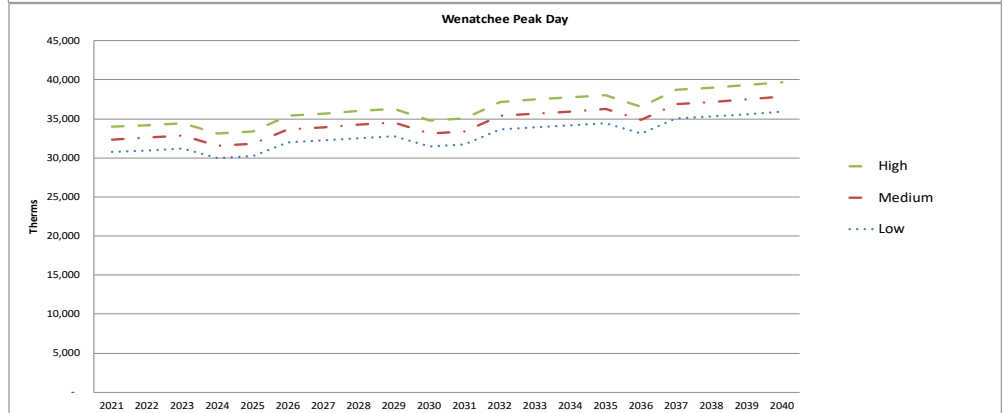
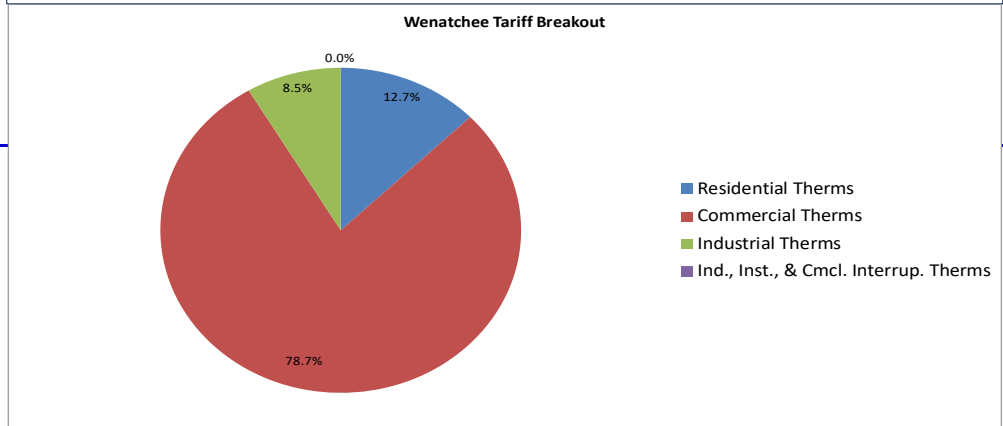
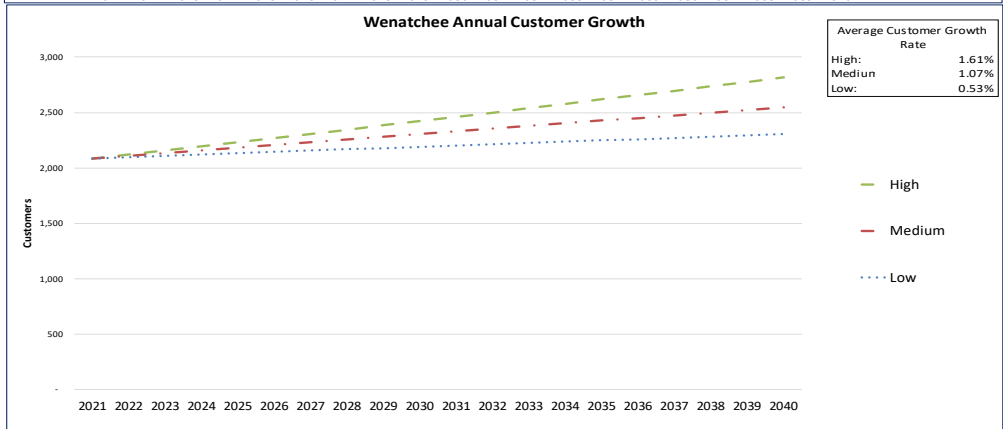
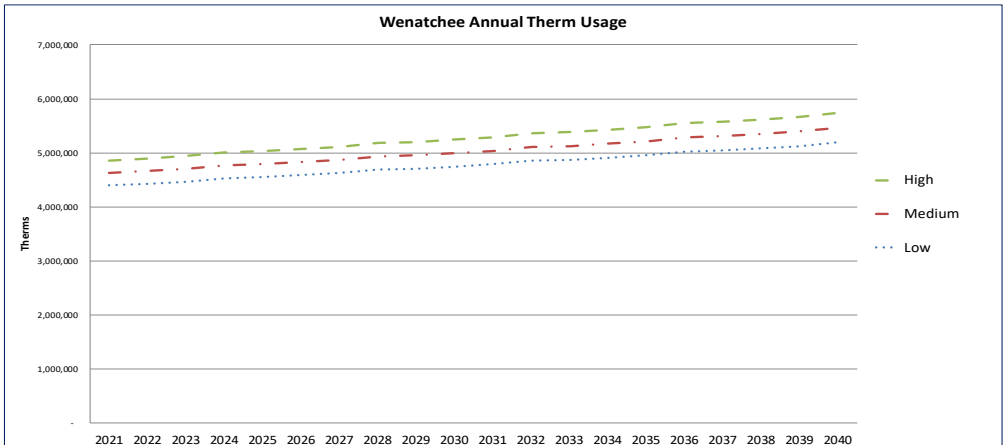


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Wenatchee																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,951,412	1,446,841	4,398,253	3,106,750	1,522,990	4,629,740	3,262,087	1,599,140	4,861,227	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,989,110	1,442,938	4,432,048	3,146,432	1,518,883	4,665,314	3,303,753	1,594,827	4,898,580	1.28%	-0.27%	0.77%	1.28%	-0.27%	0.77%	1.28%	-0.27%
2023	3,013,898	1,457,418	4,471,315	3,172,524	1,534,124	4,706,648	3,331,150	1,610,830	4,941,980	0.83%	1.00%	0.89%	0.83%	1.00%	0.89%	0.83%	1.00%
2024	3,034,469	1,499,431	4,533,900	3,194,178	1,578,348	4,772,526	3,353,887	1,657,266	5,011,153	0.68%	2.88%	1.40%	0.68%	2.88%	1.40%	0.68%	2.88%
2025	3,037,249	1,513,864	4,551,112	3,197,104	1,593,540	4,790,644	3,356,959	1,673,218	5,030,177	0.09%	0.26%	0.38%	0.09%	0.26%	0.38%	0.09%	0.26%
2026	3,061,186	1,528,347	4,589,533	3,222,301	1,608,786	4,831,087	3,383,416	1,689,225	5,072,641	0.79%	0.96%	0.84%	0.79%	0.96%	0.84%	0.79%	0.96%
2027	3,102,999	1,525,248	4,628,247	3,266,315	1,605,525	4,871,839	3,429,630	1,685,801	5,115,431	1.37%	-0.20%	0.84%	1.37%	-0.20%	0.84%	1.37%	-0.20%
2028	3,172,726	1,514,685	4,687,412	3,339,712	1,594,406	4,934,118	3,506,697	1,674,126	5,161,824	2.25%	-0.69%	1.28%	2.25%	-0.69%	1.28%	2.25%	-0.69%
2029	3,160,270	1,547,588	4,707,858	3,326,600	1,629,040	4,955,640	3,492,930	1,710,492	5,203,422	-0.39%	2.17%	0.44%	-0.39%	2.17%	0.44%	-0.39%	2.17%
2030	3,167,125	1,580,717	4,747,842	3,333,815	1,663,913	4,997,728	3,500,906	1,747,109	5,247,615	0.22%	2.14%	0.85%	0.22%	2.14%	0.85%	0.22%	2.14%
2031	3,192,261	1,595,893	4,788,154	3,360,274	1,679,888	5,040,162	3,528,288	1,763,882	5,292,170	0.79%	0.96%	0.85%	0.79%	0.96%	0.85%	0.79%	0.96%
2032	3,267,361	1,585,214	4,852,576	3,439,328	1,668,647	5,107,974	3,611,294	1,752,079	5,363,373	2.35%	-0.67%	1.35%	2.35%	-0.67%	1.35%	2.35%	-0.67%
2033	3,287,301	1,582,102	4,869,403	3,460,317	1,665,371	5,125,688	3,633,333	1,748,639	5,381,972	0.61%	-0.20%	0.35%	0.61%	-0.20%	0.35%	0.61%	-0.20%
2034	3,313,711	1,597,761	4,911,472	3,488,117	1,681,854	5,169,971	3,662,523	1,765,946	5,428,469	0.80%	0.99%	0.86%	0.80%	0.99%	0.86%	0.80%	0.99%
2035	3,322,845	1,632,744	4,955,589	3,497,732	1,718,678	5,216,409	3,672,611	1,804,511	5,477,230	0.28%	2.19%	0.90%	0.28%	2.19%	0.90%	0.28%	2.19%
2036	3,362,910	1,659,852	5,022,762	3,539,905	1,747,213	5,287,118	3,716,901	1,834,579	5,551,474	1.21%	1.66%	1.21%	1.66%	1.21%	1.66%	1.21%	1.66%
2037	3,365,737	1,676,251	5,041,988	3,542,881	1,764,475	5,307,356	3,720,025	1,852,698	5,572,723	0.08%	0.99%	0.38%	0.08%	0.99%	0.38%	0.08%	0.99%
2038	3,412,199	1,673,359	5,085,559	3,591,789	1,761,431	5,353,220	3,771,378	1,849,530	5,620,881	1.38%	-0.17%	0.86%	1.38%	-0.17%	0.86%	1.38%	-0.17%
2039	3,457,409	1,670,298	5,127,707	3,639,378	1,758,209	5,397,586	3,821,347	1,846,119	5,667,466	1.32%	-0.18%	0.83%	1.32%	-0.18%	0.83%	1.32%	-0.18%
2040	3,498,296	1,698,283	5,196,578	3,682,417	1,787,666	5,470,083	3,866,538	1,877,049	5,743,587	1.18%	1.68%	1.34%	1.18%	1.68%	1.34%	1.18%	1.68%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	3,964	26,763	30,727	4,173	28,172	32,344	4,381	29,580	33,961	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,953	26,993	30,946	4,161	28,413	32,575	4,369	29,834	34,203	-0.27%	0.86%	0.71%	-0.27%	0.86%	0.71%	-0.27%	0.86%
2023	3,993	27,199	31,192	4,203	28,631	32,834	4,413	30,062	34,476	1.00%	0.77%	0.80%	1.00%	0.77%	0.80%	1.00%	0.77%
2024	4,108	25,885	29,993	4,324	27,247	31,571	4,540	28,610	33,150	2.88%	-4.83%	-3.84%	2.88%	-4.83%	-3.84%	2.88%	-4.83%
2025	4,148	26,076	30,224	4,366	27,469	31,835	4,584	28,821	33,405	0.96%	0.74%	0.77%	0.96%	0.74%	0.77%	0.96%	0.74%
2026	4,187	27,800	31,987	4,408	29,263	33,670	4,628	30,726	35,354	0.96%	6.61%	5.83%	0.96%	6.61%	5.83%	0.96%	6.61%
2027	4,179	28,050	32,229	4,399	29,526	33,925	4,619	31,003	35,621	-0.20%	0.90%	0.76%	-0.20%	0.90%	0.76%	-0.20%	0.90%
2028	4,150	28,395	32,544	4,368	29,889	34,257	4,587	31,384	35,970	-0.69%	1.23%	0.98%	-0.69%	1.23%	0.98%	-0.69%	1.23%
2029	4,240	28,554	32,794	4,463	30,056	34,520	4,686	31,559	36,246	2.17%	0.56%	0.77%	2.17%	0.56%	0.77%	2.17%	0.56%
2030	4,331	27,126	31,457	4,559	28,554	33,113	4,787	29,982	34,768	2.14%	-5.00%	-4.08%	2.14%	-5.00%	-4.08%	2.14%	-5.00%
2031	4,372	27,324	31,696	4,602	28,762	33,364	4,833	30,200	35,033	0.96%	0.73%	0.76%	0.96%	0.73%	0.76%	0.96%	0.73%
2032	4,343	29,280	33,623	4,572	30,821	35,393	4,800	32,362	37,162	-0.67%	7.16%	6.08%	-0.67%	7.16%	6.08%	-0.67%	7.16%
2033	4,335	29,550	33,884	4,563	31,105	35,668	4,791	32,660	37,451	-0.20%	0.92%	0.78%	-0.20%	0.92%	0.78%	-0.20%	0.92%
2034	4,377	29,771	34,149	4,608	31,338	35,946	4,838	32,905	37,743	0.99%	0.75%	0.78%	0.99%	0.75%	0.78%	0.99%	0.75%
2035	4,473	29,942	34,416	4,709	31,518	36,227	4,944	33,094	38,038	2.19%	0.57%	0.78%	2.19%	0.57%	0.78%	2.19%	0.57%
2036	4,548	28,541	33,089	4,787	30,043	34,830	5,026	31,546	36,572	1.66%	-4.68%	-3.86%	1.66%	-4.68%	-3.86%	1.66%	-4.68%
2037	4,592	30,437	35,029	4,834	32,039	36,873	5,076	33,641	38,716	0.99%	6.64%	5.86%	0.99%	6.64%	5.86%	0.99%	6.64%
2038	4,585	30,719	35,303	4,826	32,335	37,161	5,067	33,952	39,019	-0.17%	0.93%	0.78%	-0.17%	0.93%	0.78%	-0.17%	0.93%
2039	4,576	31,003	35,579	4,817	32,634	37,451	5,058	34,256	39,324	-0.18%	0.92%	0.78%	-0.18%	0.92%	0.78%	-0.18%	0.92%
2040	4,653	31,276	35,929	4,898	32,922	37,820	5,143	34,568	39,711	1.68%	0.88%	0.98%	1.68%	0.88%	0.98%	1.68%	0.88%

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	568,335	3,829,818	4,398,253	598,248	4,031,493	4,629,740	628,160	4,233,067	4,861,227	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	572,889	3,859,160	4,432,048	603,041	4,062,274	4,665,314	633,193	4,265,387	4,898,580	0.80%	0.76%	0.77%	0.80%	0.76%	0.77%	0.80%	0.76%
2023	577,627	3,893,689	4,471,315	608,028	4,098,620	4,706,648	638,429	4,303,551	4,941,980	0.83%	0.89%	0.89%	0.83%	0.89%	0.89%	0.83%	0.89%
2024	585,585	3,948,315	4,533,900	616,405	4,156,121	4,772,526	647,225	4,363,927	5,011,153	1.38%	1.40%	1.38%	1.40%	1.38%	1.40%	1.38%	1.40%
2025	587,320	3,963,792	4,551,112	618,232	4,172,413	4,790,644	649,143	4,381,033	5,030,177	0.30%	0.39%	0.38%	0.30%	0.39%	0.38%	0.30%	0.39%
2026	592,061	3,997,471	4,589,533	623,222	4,207,865	4,831,087	654,383	4,418,258	5,072,641	0.81%	0.85%	0.84%	0.81%	0.85%	0.84%	0.81%	0.85%
2027	596,802	4,031,445	4,628,247	628,213	4,243,627	4,871,839	659,623	4,455,808	5,115,431	0.80%	0.85%	0.84%	0.80%	0.85%	0.84%	0.80%	0.85%
2028	604,277	4,083,135	4,687,412	636,081	4,298,037	4,934,118	667,885	4,512,399	5,180,824	1.25%	1.28%	1.28%	1.25%	1.28%	1.28%	1.25%	1.28%
2029	606,305	4,101,553	4,707,858	638,216	4,317,424	4,955,640	670,126	4,533,295	5,203,422	0.34%	0.45%	0.44%	0.34%	0.45%	0.44%	0.34%	0.45%
2030	611,046	4,136,796	4,747,842	643,206	4,354,522	4,997,728	675,366	4,572,248	5,247,615	0.78%	0.86%	0.85%	0.78%	0.86%	0.85%	0.78%	0.86%
2031	615,787	4,172,367	4,788,154	648,197	4,391,966	5,040,162	680,607	4,611,564	5,292,170	0.78%	0.86%	0.85%	0.78%	0.86%	0.85%	0.78%	0.86%
2032	623,753	4,228,822	4,852,576	656,582	4,451,392	5,107,974	689,412	4,673,961	5,363,373	1.29%	1.35%	1.35%	1.29%	1.35%	1.35%	1.29%	1.35%
2033	625,088	4,244,316	4,869,403	657,987	4,467,701	5,125,688	690,886	4,693,086	5,381,972	0.21%	0.37%	0.35%	0.21%	0.37%	0.35%	0.21%	0.37%
2034	629,826	4,281,646	4,911,472	662,974	4,506,996	5,169,971	696,123	4,732,346	5,428,469	0.76%	0.88%	0.86%	0.76%	0.88%	0.86%	0.76%	0.88%
2035	634,772	4,320,817	4,955,589	668,181	4,548,229	5,216,409	701,590	4,775,640	5,477,230	0.79%	0.91%	0.90%	0.79%	0.91%	0.90%	0.79%	0.91%
2036	642,836	4,379,926	5,022,762	676,670	4,610,448	5,287,118	710,503	4,840,971	5,551,474	1.27%	1.37%	1.36%	1.27%	1.37%	1.36%	1.27%	1.37%
2037	644,277	4,397,711	5,041,988	678,187	4,629,169	5,307,356	712,096	4,860,627	5,572,723	0.22%	0.41%	0.38%	0.22%	0.41%	0.38%	0.22%	0.41%
2038	64																

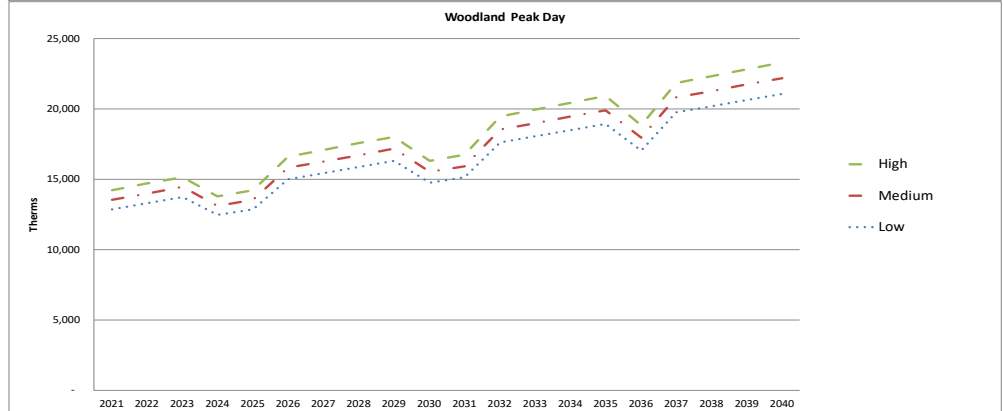
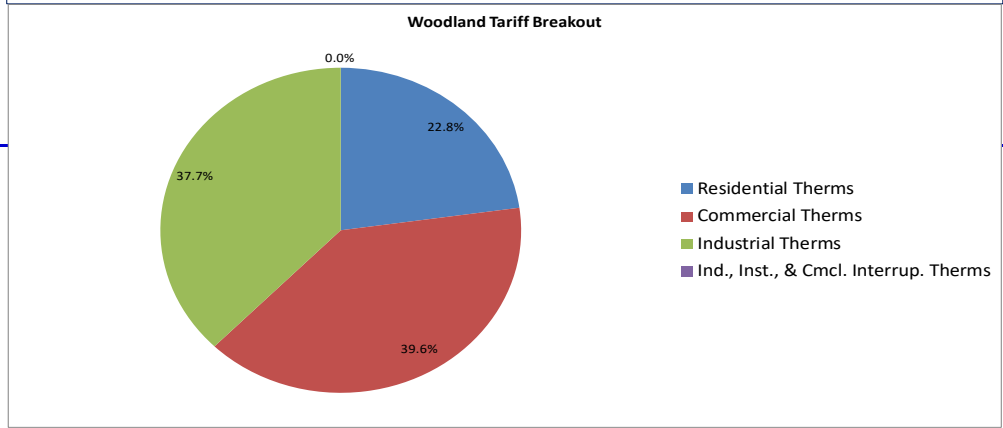
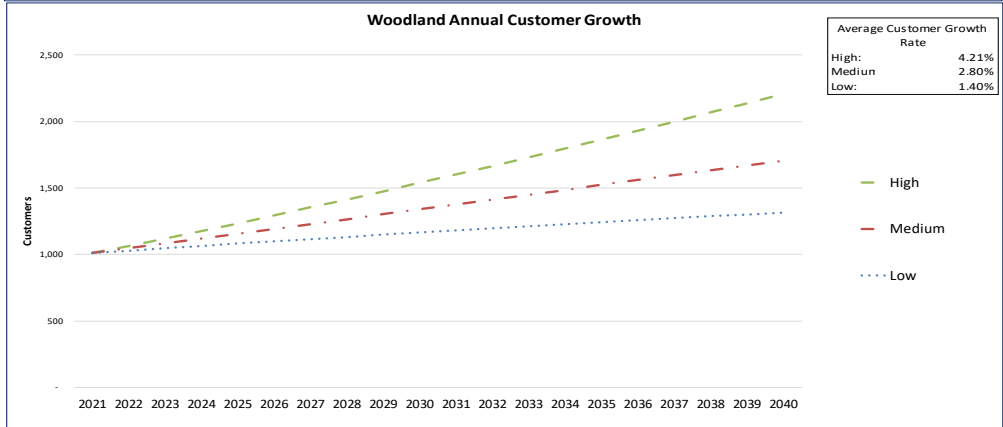
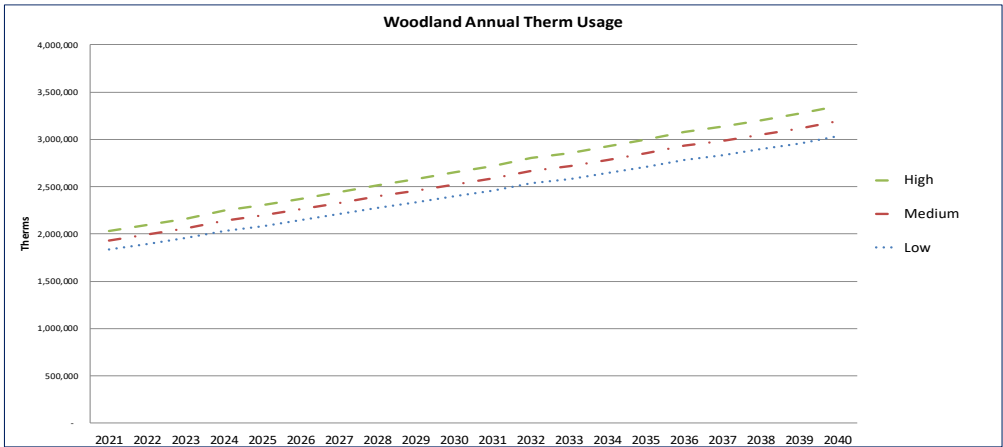


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Woodland	Annual Requirements (Therms)												Annual Change											
	Low			Medium			High			Low			Medium			High								
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total						
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040				
	1,048,157	787,075	1,835,232	1,103,323	828,500	1,931,823	1,158,489	869,926	2,028,414	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
	1,087,117	808,994	1,896,111	1,144,334	851,572	1,995,906	1,201,550	894,151	2,095,701	3.72%	2.78%	3.32%	3.72%	2.78%	3.32%	3.72%	2.78%	3.32%	3.72%	3.32%				
	1,254,817	703,671	1,958,488	1,320,860	740,706	2,061,566	1,386,903	777,742	2,164,644	15.43%	-13.02%	3.29%	15.43%	-13.02%	3.29%	15.43%	-13.02%	3.29%	15.43%	3.29%				
	1,333,492	698,138	2,031,630	1,403,676	734,882	2,138,558	1,473,860	717,626	2,245,486	6.27%	-0.79%	3.73%	6.27%	-0.79%	3.73%	6.27%	-0.79%	3.73%	6.27%	3.73%				
	1,121,383	963,917	2,085,299	1,180,403	1,014,650	2,195,052	1,239,423	1,065,382	2,304,805	-15.91%	38.07%	2.64%	-15.91%	38.07%	2.64%	-15.91%	38.07%	2.64%	-15.91%	38.07%				
	1,226,526	921,278	2,147,804	1,291,080	969,766	2,260,846	1,355,634	1,018,254	2,373,889	9.38%	-4.42%	3.00%	9.38%	-4.42%	3.00%	9.38%	-4.42%	3.00%	9.38%	3.00%				
	1,257,797	952,520	2,210,317	1,323,997	1,002,652	2,326,649	1,390,197	1,052,785	2,442,982	2.55%	3.39%	2.91%	2.55%	3.39%	2.91%	2.55%	3.39%	2.91%	2.55%	3.39%				
	1,448,456	830,763	2,279,219	1,524,691	874,488	2,399,178	1,600,925	918,212	2,519,137	15.16%	-12.78%	3.12%	15.16%	-12.78%	3.12%	15.16%	-12.78%	3.12%	15.16%	3.12%				
	1,321,085	1,014,434	2,335,518	1,390,616	1,067,825	2,458,440	1,460,147	1,121,216	2,581,362	-8.79%	22.11%	2.47%	-8.79%	22.11%	2.47%	-8.79%	22.11%	2.47%	-8.79%	22.11%				
	1,565,042	833,023	2,398,065	1,647,413	876,866	2,524,279	1,729,783	920,710	2,650,493	18.47%	-17.88%	2.68%	18.47%	-17.88%	2.68%	18.47%	-17.88%	2.68%	18.47%	2.68%				
	1,317,931	1,142,685	2,460,616	1,387,296	1,202,826	2,590,122	1,456,661	1,262,967	2,719,628	-15.79%	37.17%	2.61%	-15.79%	37.17%	2.61%	-15.79%	37.17%	2.61%	-15.79%	37.17%				
	1,444,289	1,090,142	2,534,431	1,520,304	1,147,518	2,667,822	1,596,319	1,204,894	2,801,213	9.59%	-4.60%	3.00%	9.59%	-4.60%	3.00%	9.59%	-4.60%	3.00%	9.59%	3.00%				
	1,473,258	1,110,620	2,583,860	1,550,798	1,169,055	2,719,852	1,628,337	1,227,507	2,855,845	2.01%	1.88%	1.95%	2.01%	1.88%	1.95%	2.01%	1.88%	1.95%	2.01%	1.88%				
	1,674,222	972,120	2,646,343	1,762,339	1,023,285	2,785,624	1,850,456	1,074,449	2,924,905	13.64%	-12.47%	3.64%	13.64%	-12.47%	3.64%	13.64%	-12.47%	3.64%	13.64%	3.64%				
	1,531,449	1,179,633	2,711,082	1,612,051	1,241,719	2,853,770	1,692,654	1,303,805	2,996,458	-8.53%	21.35%	2.45%	-8.53%	21.35%	2.45%	-8.53%	21.35%	2.45%	-8.53%	21.35%				
	1,492,196	1,293,832	2,786,027	1,570,732	1,351,928	2,922,660	1,649,369	1,430,225	3,076,293	-2.56%	9.68%	2.76%	-2.56%	9.68%	2.76%	-2.56%	9.68%	2.76%	-2.56%	9.68%				
	1,613,572	1,222,968	2,836,540	1,698,497	1,287,335	2,985,832	1,783,421	1,351,702	3,135,123	8.13%	-5.48%	3.13%	8.13%	-5.48%	3.13%	8.13%	-5.48%	3.13%	8.13%	3.13%				
	1,643,364	1,255,803	2,899,168	1,729,857	1,321,898	3,051,755	1,816,350	1,387,993	3,204,343	1.85%	2.68%	2.21%	1.85%	2.68%	2.21%	1.85%	2.68%	2.21%	1.85%	2.68%				
	1,683,106	1,276,259	2,959,365	1,771,691	1,343,430	3,115,121	1,860,275	1,410,602	3,270,877	2.42%	1.63%	2.08%	2.42%	1.63%	2.08%	2.42%	1.63%	2.08%	2.42%	1.63%				
	1,932,469	1,102,881	3,035,349	2,034,178	1,160,927	3,195,105	2,135,886	1,218,974	3,354,860	14.82%	-13.58%	2.57%	14.82%	-13.58%	2.57%	14.82%	-13.58%	2.57%	14.82%	-13.58%				

Woodland	Peak Day - Baseload									Annual Change									
	Low			Medium			High			Low			Medium			High			
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	2,156	10,701	12,857	2,270	11,264	13,534	2,383	11,827	14,210	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	2,216	11,073	13,289	2,333	11,656	13,989	2,450	12,238	14,688	2.78%	3.48%	3.36%	2.78%	3.48%	3.36%	2.78%	3.48%	3.36%	2.78%
	1,928	11,794	13,722	2,029	12,415	14,444	2,131	13,035	15,166	-13.02%	6.51%	3.25%	-13.02%	6.51%	3.25%	-13.02%	6.51%	3.25%	-13.02%
	1,913	10,555	12,468	2,013	11,110	13,124	2,114	11,666	13,780	-0.79%	-10.50%	-9.14%	-0.79%	-10.50%	-9.14%	-0.79%	-10.50%	-9.14%	-0.79%
	2,641	10,209	12,850	2,780	10,747	13,527	2,919	11,284	14,203	38.07%	-3.27%	3.07%	38.07%	-3.27%	3.07%	38.07%	-3.27%	3.07%	38.07%
	2,524	12,495	15,019	2,657	13,153	15,810	2,790	13,811	16,500	-4.42%	22.39%	16.88%	-4.42%	22.39%	16.88%	-4.42%	22.39%	16.88%	-4.42%
	2,610	12,843	15,452	2,747	13,518	16,265	2,884	14,194	17,079	3.39%	2.78%	2.88%	3.39%	2.78%	2.88%	3.39%	2.78%	2.88%	3.39%
	2,276	13,608	15,884	2,396	14,325	16,720	2,516	15,041	17,556	-12.78%	5.96%	2.80%	-12.78%	5.96%	2.80%	-12.78%	5.96%	2.80%	-12.78%
	2,779	13,538	16,317	2,926	14,251	17,176	3,072	14,963	18,035	22.11%	-0.52%	2.73%	22.11%	-0.52%	2.73%	22.11%	-0.52%	2.73%	22.11%
	2,282	12,482	14,765	2,402	13,139	15,542	2,522	13,796	16,319	-17.88%	-7.80%	-9.52%	-17.88%	-7.80%	-9.52%	-17.88%	-7.80%	-9.52%	-17.88%
	3,131	12,017	15,148	3,295	12,650	15,945	3,460	13,282	16,743	37.17%	-3.73%	2.60%	37.17%	-3.73%	2.60%	37.17%	-3.73%	2.60%	37.17%
	2,987	14,629	17,616	3,144	15,399	18,543	3,301	16,169	19,470	-4.60%	21.73%	16.29%	-4.60%	21.73%	16.29%	-4.60%	21.73%	16.29%	-4.60%
	3,043	15,007	18,049	3,203	15,796	18,999	3,363	16,586	19,949	1.88%	2.58%	2.46%	1.88%	2.58%	2.46%	1.88%	2.58%	2.46%	1.88%
	2,663	15,820	18,483	2,804	16,652	19,456	2,944	17,485	20,429	-12.47%	5.42%	2.40%	-12.47%	5.42%	2.40%	-12.47%	5.42%	2.40%	-12.47%
	3,232	15,685	18,917	3,402	16,510	19,912	3,572	17,336	20,908	21.35%	-0.85%	2.35%	21.35%	-0.85%	2.35%	21.35%	-0.85%	2.35%	21.35%
	3,545	15,518	17,063	3,731	14,229	17,961	3,918	14,941	18,859	9.68%	-13.82%	-9.80%	9.68%	-13.82%	-9.80%	9.68%	-13.82%	-9.80%	9.68%
	3,351	16,432	19,783	3,527	17,297	20,824	3,703	18,162	21,865	-5.48%	21.56%	15.94%	-5.48%	21.56%	15.94%	-5.48%	21.56%	15.94%	-5.48%
	3,441	16,776	20,217	3,622	17,659	21,281	3,803	18,542	22,345	2.68%	2.09%	2.19%	2.68%	2.09%	2.19%	2.68%	2.09%	2.19%	2.68%
	3,497	17,154	20,651	3,681	18,057	21,738	3,865	18,960	22,825	1.63%	2.25%	2.15%	1.63%	2.25%	2.15%	1.63%	2.25%	2.15%	1.63%
	3,022	18,061	21,083	3,181	19,012	22,192	3,340	19,962	23,302	-13.58%	5.29%	2.09%	-13.58%	5.29%	2.09%	-13.58%	5.29%	2.09%	-13.58%

Woodland	Therms Usage by Class												Annual Change											
	Low			Medium			High			Low			Medium			High								
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total						
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040				
	428,113	1,407,119	1,835,232	450,646	1,481,178	1,931,823	473,178	1,555,236	2,028,414	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%					
	445,867	1,450,243	1,896,111	469,334	1,526,572	1,995,906	492,801	1,602,900	2,095,701	4.15%	3.06%	3.32%	4.15%	3.06%	3.32%	4.15%	3.06%	3.32%	4.15%					
	463,916	1,494,571	1,958,488	488,333	1,573,233	2,061,566	512,570	1,651,895	2,164,644	4.05%	3.06%	3.29%	4.05%	3.06%	3.29%	4.05%	3.06%	3.29%	4.05%					
	484,578	1,547,052	2,031,630	510,083	1,628,475	2,138,558	535,587	1,709,899	2,245,486	4.45%	3.51%	3.73%	4.45%	3.51%	3.73%	4.45%	3.51%	3.73%	4.45%					
	500,450	1,594,850	2,085,299	526,789	1,668,263	2,195,052	553,129	1,751,676	2,304,805	3.28%	2.44%	2.64%	3.28%	2.44%	2.64%	3								



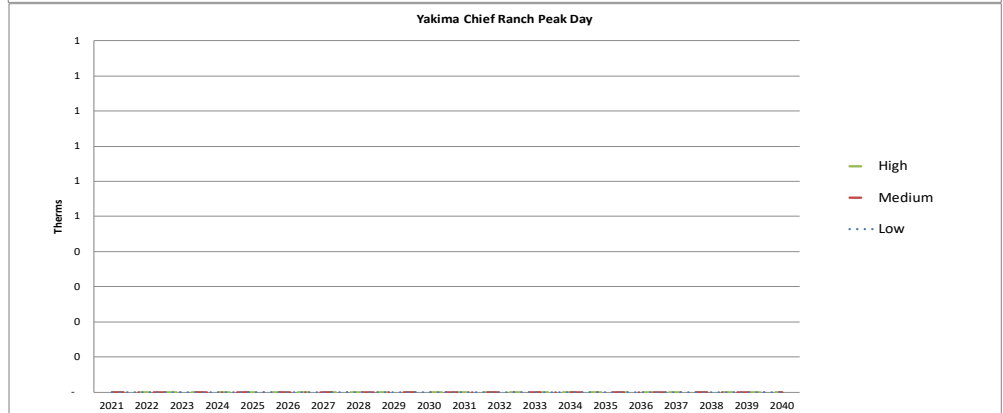
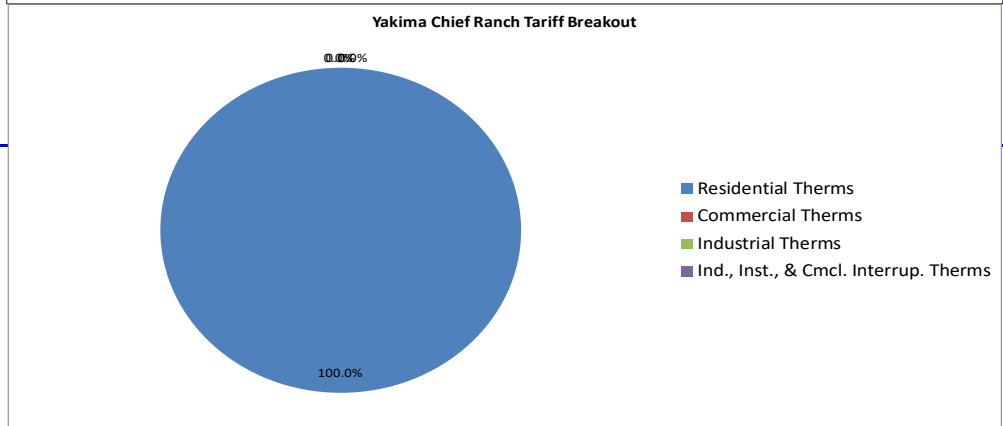
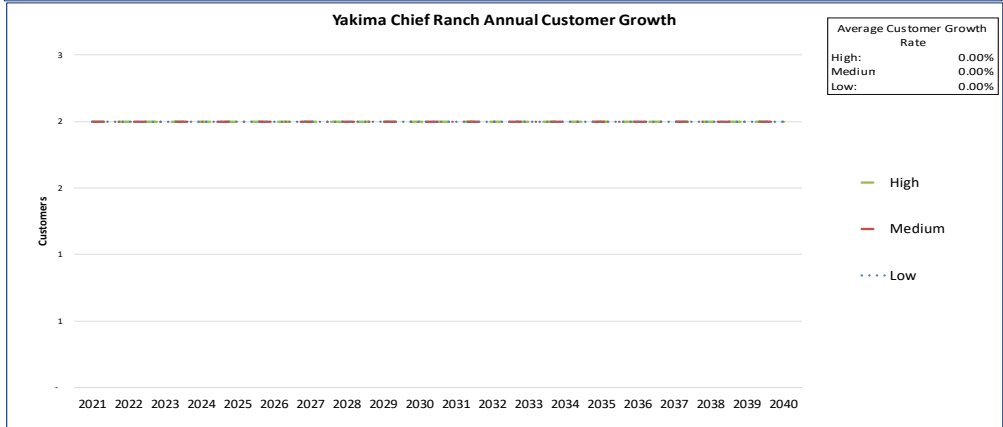
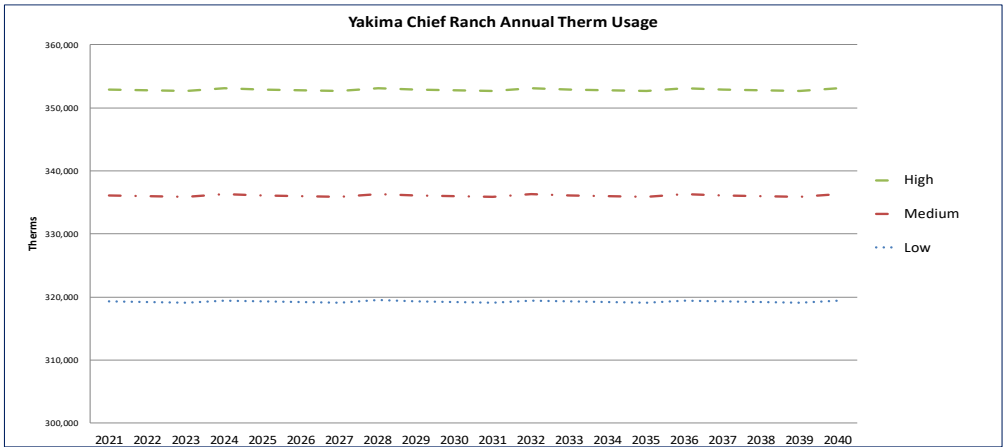
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Yakima Chief Ranch																	
Annual Requirements (Therms)																	
Low						Medium						High					
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	319,284	-	319,284	336,088	-	336,088	352,893	-	352,893	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	319,193	-	319,193	335,992	-	335,992	352,792	-	352,792	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2023	319,127	-	319,127	335,923	-	335,923	352,719	-	352,719	-0.02%	0.00%	-0.02%	-0.02%	0.00%	-0.02%	-0.02%	-0.02%
2024	319,474	-	319,474	336,288	-	336,288	353,102	-	353,102	0.11%	0.00%	0.11%	0.11%	0.00%	0.11%	0.11%	0.11%
2025	319,308	-	319,308	336,114	-	336,114	352,920	-	352,920	-0.05%	0.00%	-0.05%	-0.05%	0.00%	-0.05%	-0.05%	-0.05%
2026	319,180	-	319,180	335,979	-	335,979	352,778	-	352,778	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2027	319,070	-	319,070	335,863	-	335,863	352,656	-	352,656	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2028	319,489	-	319,489	336,305	-	336,305	353,120	-	353,120	0.13%	0.00%	0.13%	0.13%	0.00%	0.13%	0.13%	0.13%
2029	319,327	-	319,327	336,134	-	336,134	352,941	-	352,941	-0.05%	0.00%	-0.05%	-0.05%	0.00%	-0.05%	-0.05%	-0.05%
2030	319,194	-	319,194	335,994	-	335,994	352,794	-	352,794	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2031	319,080	-	319,080	335,874	-	335,874	352,667	-	352,667	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2032	319,476	-	319,476	336,291	-	336,291	353,105	-	353,105	0.12%	0.00%	0.12%	0.12%	0.00%	0.12%	0.12%	0.12%
2033	319,299	-	319,299	336,105	-	336,105	352,910	-	352,910	-0.06%	0.00%	-0.06%	-0.06%	0.00%	-0.06%	-0.06%	-0.06%
2034	319,234	-	319,234	336,035	-	336,035	352,837	-	352,837	-0.02%	0.00%	-0.02%	-0.02%	0.00%	-0.02%	-0.02%	-0.02%
2035	319,112	-	319,112	335,908	-	335,908	352,703	-	352,703	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2036	319,475	-	319,475	336,289	-	336,289	353,104	-	353,104	0.11%	0.00%	0.11%	0.11%	0.00%	0.11%	0.11%	0.11%
2037	319,287	-	319,287	336,092	-	336,092	352,897	-	352,897	-0.06%	0.00%	-0.06%	-0.06%	0.00%	-0.06%	-0.06%	-0.06%
2038	319,177	-	319,177	335,976	-	335,976	352,774	-	352,774	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2039	319,086	-	319,086	335,880	-	335,880	352,674	-	352,674	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2040	319,469	-	319,469	336,283	-	336,283	353,097	-	353,097	0.12%	0.00%	0.12%	0.12%	0.00%	0.12%	0.12%	0.12%

Peak Day - Baseload																	
Low						Medium						High					
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total
2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Therms Usage by Class																	
Low						Medium						High					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	319,284	-	319,284	336,088	-	336,088	352,893	-	352,893	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	319,193	-	319,193	335,992	-	335,992	352,792	-	352,792	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2023	319,127	-	319,127	335,923	-	335,923	352,719	-	352,719	-0.02%	0.00%	-0.02%	-0.02%	0.00%	-0.02%	-0.02%	-0.02%
2024	319,474	-	319,474	336,288	-	336,288	353,102	-	353,102	0.11%	0.00%	0.11%	0.11%	0.00%	0.11%	0.11%	0.11%
2025	319,308	-	319,308	336,114	-	336,114	352,920	-	352,920	-0.05%	0.00%	-0.05%	-0.05%	0.00%	-0.05%	-0.05%	-0.05%
2026	319,180	-	319,180	335,979	-	335,979	352,778	-	352,778	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2027	319,070	-	319,070	335,863	-	335,863	352,656	-	352,656	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2028	319,489	-	319,489	336,305	-	336,305	353,120	-	353,120	0.13%	0.00%	0.13%	0.13%	0.00%	0.13%	0.13%	0.13%
2029	319,327	-	319,327	336,134	-	336,134	352,941	-	352,941	-0.05%	0.00%	-0.05%	-0.05%	0.00%	-0.05%	-0.05%	-0.05%
2030	319,194	-	319,194	335,994	-	335,994	352,794	-	352,794	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2031	319,080	-	319,080	335,874	-	335,874	352,667	-	352,667	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2032	319,476	-	319,476	336,291	-	336,291	353,105	-	353,105	0.12%	0.00%	0.12%	0.12%	0.00%	0.12%	0.12%	0.12%
2033	319,299	-	319,299	336,105	-	336,105	352,910	-	352,910	-0.06%	0.00%	-0.06%	-0.06%	0.00%	-0.06%	-0.06%	-0.06%
2034	319,234	-	319,234	336,035	-	336,035	352,837	-	352,837	-0.02%	0.00%	-0.02%	-0.02%	0.00%	-0.02%	-0.02%	-0.02%
2035	319,112	-	319,112	335,908	-	335,908	352,703	-	352,703	-0.04%	0.00%	-0.04%	-0.04%	0.00%	-0.04%	-0.04%	-0.04%
2036	319,475	-	319,475	336,289	-	336,289	353,104	-	353,104	0.11%	0.00%	0.11%	0.11%	0.00%	0.11%	0.11%	0.11%
2037	319,287	-	319,287	336,092	-	336,092	352,897	-	352,897	-0.06%	0.00%	-0.06%	-0.06%	0.00%	-0.06%	-0.06%	-0.06%
2038	319,177	-	319,177	335,976	-	335,976	352,774	-	352,774	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2039	319,086	-	319,086	335,880	-	335,880	352,674	-	352,674	-0.03%	0.00%	-0.03%	-0.03%	0.00%	-0.03%	-0.03%	-0.03%
2040	319,469	-	319,469	336,283	-	336,283	353,097	-	353,097	0.12%	0.00%	0.12%	0.12%	0.00%	0.12%	0.12%	0.12%

Customer Count Forecast																	
Low						Medium						High					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2023	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2024	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2025	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2026	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2027	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2028	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2029	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2030	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2031	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2032	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2033	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2034	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2035	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2036	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2037	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2038	2	-	2														

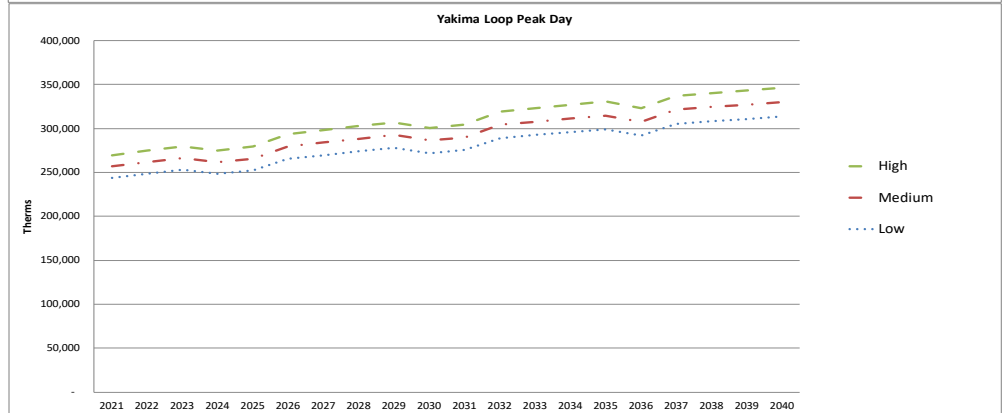
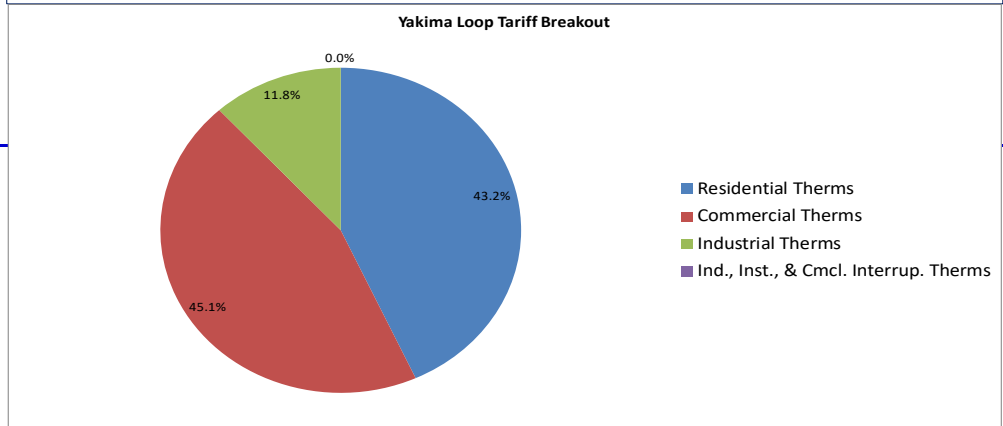
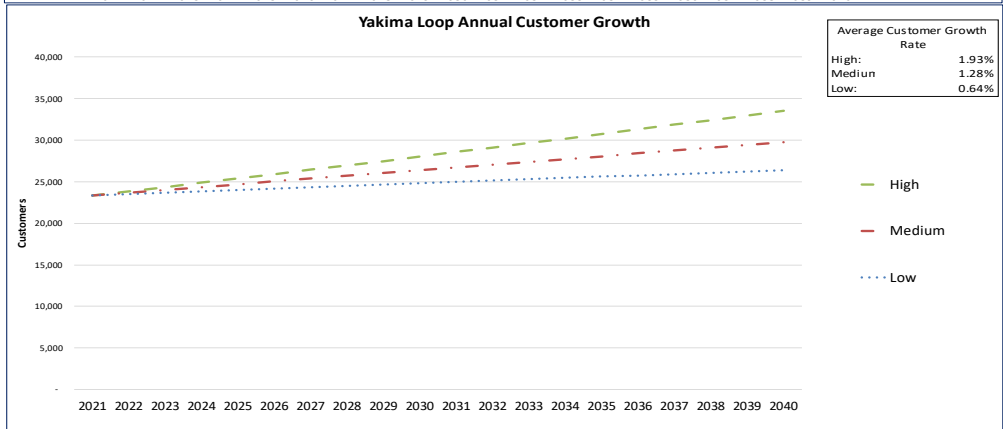
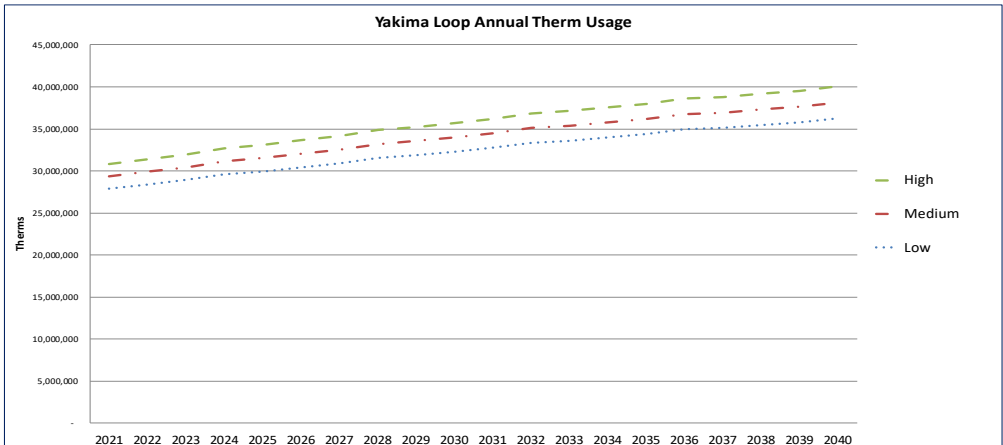


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Yakima Loop																	
Annual Requirements (Therms)												Annual Change					
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	20,989,782	6,900,844	27,890,626	22,094,508	7,264,046	29,358,554	23,199,233	7,627,249	30,826,482	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	21,458,052	6,947,034	28,405,086	22,587,423	7,312,667	29,900,090	23,716,794	7,678,301	31,395,095	2.23%	0.67%	1.84%	2.23%	0.67%	1.84%	2.23%	0.67%
2023	21,835,496	7,087,327	28,922,823	22,984,733	7,460,344	30,445,077	24,133,970	7,833,361	31,967,331	1.76%	2.02%	1.82%	1.76%	2.02%	1.82%	1.76%	2.02%
2024	22,179,591	7,412,083	29,591,674	23,346,938	7,802,193	31,149,130	24,514,284	8,192,303	32,706,587	1.58%	4.58%	2.31%	1.58%	4.58%	2.31%	1.58%	4.58%
2025	22,419,338	7,530,075	29,949,413	23,599,302	7,926,395	31,525,698	24,779,269	8,322,715	33,101,983	1.08%	1.59%	1.21%	1.08%	1.59%	1.21%	1.08%	1.59%
2026	22,782,519	7,662,479	30,444,998	23,981,597	8,065,769	32,047,366	25,180,680	8,469,055	33,649,735	1.62%	1.76%	1.65%	1.62%	1.76%	1.65%	1.62%	1.76%
2027	23,210,821	7,719,599	30,930,420	24,432,443	8,126,272	32,558,716	25,654,063	8,532,589	34,186,652	1.88%	0.75%	1.60%	1.88%	0.75%	1.60%	1.88%	0.75%
2028	23,817,571	7,726,106	31,543,676	25,071,127	8,132,743	33,203,870	26,324,685	8,539,379	34,864,064	2.61%	0.08%	1.98%	2.61%	0.08%	1.98%	2.61%	0.08%
2029	23,905,967	7,961,423	31,867,390	25,164,175	8,380,446	33,544,621	26,422,383	8,799,469	35,221,852	0.37%	3.05%	1.03%	0.37%	3.05%	1.03%	0.37%	3.05%
2030	24,121,781	8,197,258	32,319,039	25,391,348	8,628,693	34,020,041	26,660,914	9,060,129	35,721,043	0.90%	2.96%	1.42%	0.90%	2.96%	1.42%	0.90%	2.96%
2031	24,472,954	8,285,228	32,758,182	25,761,005	8,721,292	34,482,297	27,049,055	9,157,357	36,206,412	1.46%	1.07%	1.36%	1.46%	1.07%	1.36%	1.46%	1.07%
2032	25,042,044	8,308,339	33,350,384	26,360,047	8,745,620	35,105,666	27,678,409	9,182,901	36,860,950	2.33%	0.28%	1.81%	2.33%	0.28%	1.81%	2.33%	0.28%
2033	25,279,928	8,306,923	33,586,851	26,610,448	8,744,132	35,354,581	27,940,971	9,181,338	37,122,309	0.95%	-0.02%	0.71%	0.95%	-0.02%	0.71%	0.95%	-0.02%
2034	25,569,637	8,416,349	33,985,987	26,915,409	8,859,314	35,774,723	28,261,177	9,302,282	37,563,459	1.15%	1.32%	1.19%	1.15%	1.32%	1.19%	1.15%	1.32%
2035	25,739,818	8,540,617	34,380,435	27,094,546	9,095,386	36,189,932	28,449,273	9,550,155	37,999,429	0.67%	2.66%	1.16%	0.67%	2.66%	1.16%	0.67%	2.66%
2036	26,096,768	8,626,787	34,923,555	27,470,280	9,291,357	36,761,637	28,843,793	9,755,926	38,599,219	1.39%	2.15%	1.58%	1.39%	2.15%	1.58%	1.39%	2.15%
2037	26,182,866	8,920,593	35,103,459	27,560,910	9,390,100	36,951,009	28,938,957	9,859,603	38,798,560	0.33%	1.06%	0.52%	0.33%	1.06%	0.52%	0.33%	1.06%
2038	26,524,404	8,919,850	35,444,254	27,920,428	9,389,312	37,309,740	29,316,448	9,858,779	39,175,227	1.30%	-0.01%	0.97%	1.30%	-0.01%	0.97%	1.30%	-0.01%
2039	26,873,775	8,888,840	35,762,615	28,288,182	9,356,676	37,644,858	29,702,593	9,824,507	39,527,100	1.32%	-0.35%	0.90%	1.32%	-0.35%	0.90%	1.32%	-0.35%
2040	27,177,835	9,083,359	36,261,194	28,608,247	9,561,431	38,169,678	30,038,659	10,039,503	40,078,162	1.13%	2.19%	1.39%	1.13%	2.19%	1.39%	1.13%	2.19%

Peak Day - BaseLoad																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	18,906	225,187	244,094	19,901	237,039	256,941	20,897	248,891	269,788	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	19,033	229,459	248,492	20,035	241,536	261,571	21,036	253,613	274,649	0.67%	1.90%	1.80%	0.67%	1.90%	1.80%	0.67%	1.90%
2023	19,417	233,435	252,852	20,439	245,721	266,160	21,461	258,007	279,468	2.02%	1.73%	1.75%	2.02%	1.73%	1.75%	2.02%	1.73%
2024	20,307	228,291	248,598	21,376	240,306	261,682	22,445	252,321	274,766	4.58%	-2.20%	-1.68%	4.58%	-2.20%	-1.68%	4.58%	-2.20%
2025	20,630	230,617	250,433	21,716	244,287	266,030	22,802	256,901	278,303	1.59%	1.65%	1.65%	1.59%	1.65%	1.65%	1.59%	1.65%
2026	20,993	244,750	265,743	22,098	257,631	279,729	23,203	270,513	293,716	1.76%	5.46%	5.16%	1.76%	5.46%	5.16%	1.76%	5.46%
2027	21,151	248,676	269,827	22,264	261,764	284,028	23,377	274,853	298,230	0.75%	1.60%	1.54%	0.75%	1.60%	1.54%	0.75%	1.60%
2028	21,167	252,802	273,970	22,281	266,108	288,389	23,396	279,413	302,809	0.08%	1.66%	1.54%	0.08%	1.66%	1.54%	0.08%	1.66%
2029	21,812	256,050	277,862	22,960	269,526	292,486	24,108	283,002	307,110	3.05%	1.28%	1.42%	3.05%	1.28%	1.42%	3.05%	1.28%
2030	22,458	249,607	272,066	23,640	262,745	286,385	24,822	275,882	300,704	2.96%	-2.52%	-2.09%	2.96%	-2.52%	-2.09%	2.96%	-2.52%
2031	22,699	252,917	275,616	23,894	266,229	290,122	25,089	279,350	304,629	1.07%	1.33%	1.31%	1.07%	1.33%	1.31%	1.07%	1.33%
2032	22,763	266,323	289,085	23,961	280,340	304,300	25,159	294,547	319,515	0.28%	5.30%	4.89%	0.28%	5.30%	4.89%	0.28%	5.30%
2033	22,759	269,791	292,550	23,957	283,991	307,947	25,154	298,190	323,344	-0.02%	1.30%	1.20%	-0.02%	1.30%	1.20%	-0.02%	1.30%
2034	23,058	272,838	295,896	24,272	287,197	311,470	25,486	301,557	327,043	1.32%	1.13%	1.14%	1.32%	1.13%	1.14%	1.32%	1.13%
2035	23,673	275,440	299,113	24,919	289,937	314,856	26,165	304,434	330,599	2.66%	0.95%	1.09%	2.66%	0.95%	1.09%	2.66%	0.95%
2036	24,183	267,873	292,056	25,456	281,971	307,427	26,729	296,070	322,799	2.15%	-2.75%	-2.36%	2.15%	-2.75%	-2.36%	2.15%	-2.75%
2037	24,440	280,906	305,346	25,726	295,690	321,417	27,013	310,475	337,488	1.06%	4.87%	4.55%	1.06%	4.87%	4.55%	1.06%	4.87%
2038	24,438	283,755	308,193	25,724	298,690	324,414	27,010	313,624	340,635	-0.01%	1.01%	0.93%	-0.01%	1.01%	0.93%	-0.01%	1.01%
2039	24,353	286,585	310,938	25,635	301,668	327,303	26,916	316,751	343,668	-0.35%	1.00%	0.89%	-0.35%	1.00%	0.89%	-0.35%	1.00%
2040	24,886	288,895	313,781	26,196	304,100	330,296	27,505	319,306	346,811	2.19%	0.81%	0.91%	2.19%	0.81%	0.91%	2.19%	0.81%

Therms Usage by Class																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	12,318,093	15,572,533	27,890,626	12,966,414	16,392,140	29,358,554	13,614,735	17,217,747	30,826,482	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	12,509,337	15,895,749	28,405,086	13,167,723	16,732,367	29,900,090	13,826,109	17,568,986	31,395,095	1.55%	2.08%	1.84%	1.55%	2.08%	1.84%	1.55%	2.08%
2023	12,702,382	16,220,440	28,922,823	13,370,929	17,074,148	30,445,077	14,039,475	17,927,816	31,967,331	1.54%	2.04%	1.82%	1.54%	2.04%	1.82%	1.54%	2.04%
2024	12,964,674	16,627,000	29,591,674	13,647,025	17,502,105	31,149,130	14,329,377	18,377,210	32,706,587	2.06%	2.51%	2.31%	2.06%	2.51%	2.31%	2.06%	2.51%
2025	13,085,446	16,863,967	29,949,413	13,774,154	17,751,544	31,525,698	14,462,862	18,639,121	33,101,983	0.93%	1.43%	1.21%	0.93%	1.43%	1.21%	0.93%	1.43%
2026	13,270,238	17,174,770	30,444,998	13,968,661	18,078,705	32,047,366	14,667,094	18,982,640	33,649,735	1.41%	1.84%	1.65%	1.41%	1.84%	1.65%	1.41%	1.84%
2027	13,451,354	17,479,426	30,930,420	14,159,320	18,399,395	32,558,716	14,867,286	19,319,366	34,186,652	1.36%	1.77%	1.60%	1.36%	1.77%	1.60%	1.36%	1.77%
2028	13,692,405	17,851,271	31,543,676	14,413,058	18,790,812	33,203,870	15,133,711	19,730,352	34,864,064	1.79%	2.13%	1.98%	1.79%	2.13%	1.98%	1.79%	2.13%
2029	13,800,642	18,066,749	31,867,390	14,526,991	19,017,630	33,544,621	15,253,341	19,968,511	35,221,852	0.79%	1.21%	1.03%	0.79%	1.21%	1.03%	0.79%	1.21%
2030	13,969,040	18,349,997	32,319,039	14,704,253	19,315,788	34,020,041	15,439,465	20,281,578	35,721,043	1.22%	1						



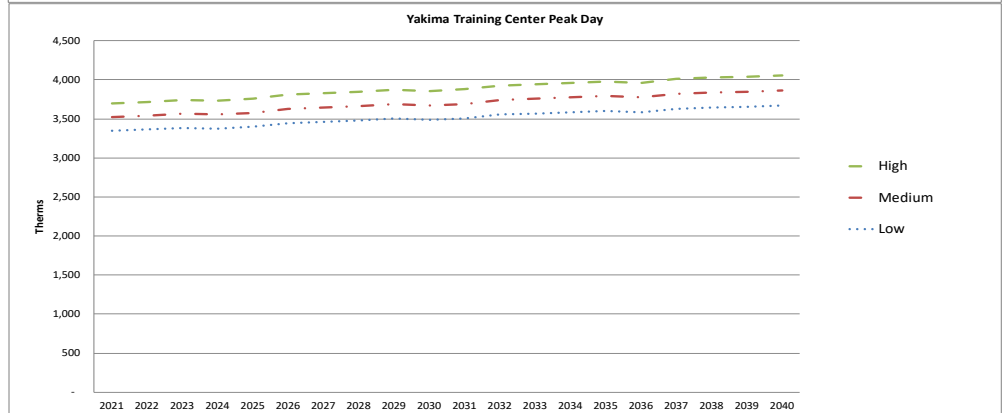
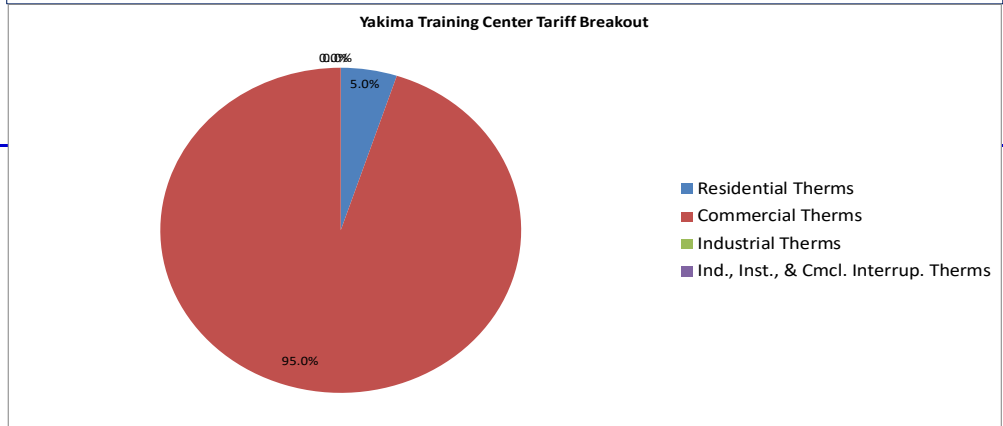
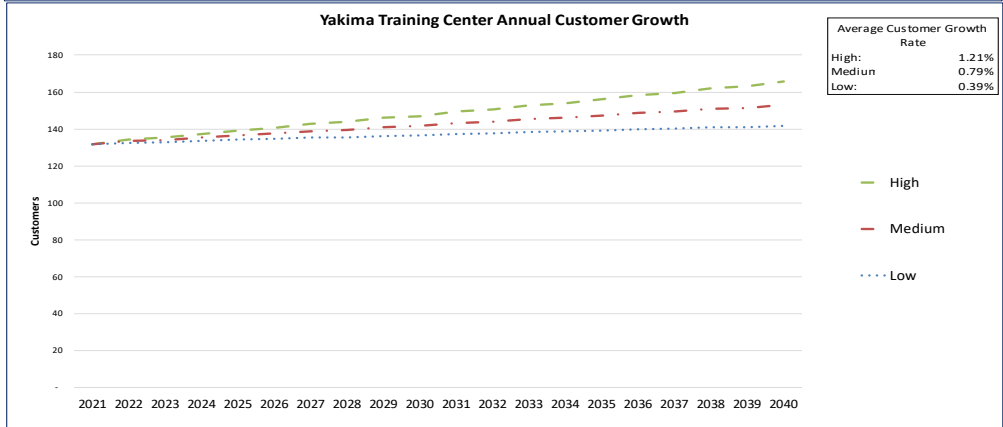
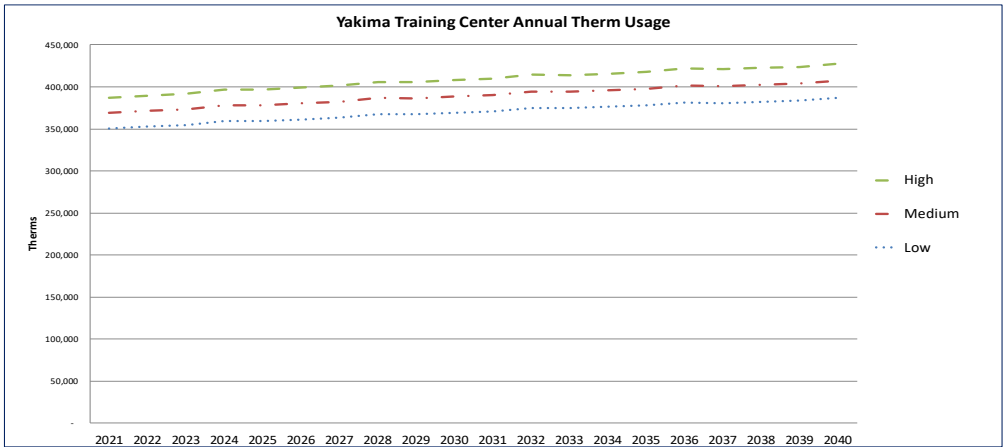
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Yakima Training Center												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	335,190	15,251	350,441	352,831	16,054	368,885	370,473	16,857	387,329	0.00%	0.00%	0.00%
2022	336,740	15,871	352,611	354,463	16,706	371,170	372,187	17,542	389,728	0.46%	4.06%	0.62%
2023	338,664	16,124	354,788	356,488	16,973	373,461	374,312	17,822	392,134	0.57%	1.60%	0.62%
2024	343,710	15,395	359,105	361,800	16,205	378,005	379,890	17,015	396,905	1.49%	-4.52%	1.22%
2025	343,656	15,450	359,106	361,743	16,263	378,006	379,830	17,076	396,906	-0.02%	0.36%	0.00%
2026	345,519	15,567	361,086	363,704	16,491	380,195	381,889	17,316	399,205	0.54%	1.41%	0.58%
2027	346,979	16,248	363,227	365,241	17,103	382,344	383,503	17,958	401,462	0.42%	3.71%	0.57%
2028	351,242	16,101	367,343	369,728	16,948	386,676	388,215	17,796	406,010	1.23%	-0.90%	1.13%
2029	350,820	16,339	367,159	369,284	17,199	386,483	387,748	18,059	405,807	-0.12%	1.48%	-0.05%
2030	352,708	16,358	369,066	371,272	17,219	388,491	389,836	18,080	407,915	0.54%	0.11%	0.52%
2031	354,521	16,402	370,923	373,180	17,265	390,445	391,839	18,129	409,967	0.51%	0.27%	0.50%
2032	358,785	16,145	374,929	377,668	16,994	394,663	396,552	17,844	414,396	1.20%	-1.57%	1.08%
2033	357,635	16,776	374,411	376,457	17,659	394,116	395,280	18,542	413,822	-0.32%	3.91%	-0.14%
2034	359,068	17,020	376,088	377,967	17,916	395,882	396,865	18,812	415,677	0.40%	1.45%	0.45%
2035	360,483	17,248	377,731	379,566	18,156	397,612	398,429	19,064	417,493	0.39%	1.34%	0.44%
2036	365,241	16,222	381,463	384,569	17,075	401,645	403,797	17,929	421,727	1.35%	-5.95%	1.01%
2037	364,362	16,417	380,779	383,539	17,281	400,820	402,716	18,145	420,861	-0.27%	1.21%	-0.21%
2038	365,214	16,996	382,211	384,436	17,891	402,327	403,658	18,785	422,443	0.23%	3.53%	0.38%
2039	365,953	17,614	383,567	385,213	18,541	403,754	404,474	19,468	423,942	0.20%	3.63%	0.35%
2040	370,170	17,025	387,195	389,652	17,921	407,574	409,135	18,817	427,952	1.15%	-3.34%	0.95%

Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	42	3,301	3,343	44	3,475	3,519	46	3,649	3,695	0.00%	0.00%	0.00%
2022	43	3,321	3,364	46	3,495	3,541	48	3,670	3,718	4.06%	0.58%	0.63%
2023	44	3,341	3,385	47	3,516	3,563	49	3,692	3,741	1.60%	0.60%	0.62%
2024	42	3,334	3,377	44	3,510	3,554	47	3,685	3,732	-4.52%	-0.18%	-0.24%
2025	43	3,354	3,397	45	3,531	3,576	47	3,708	3,754	0.36%	0.60%	0.60%
2026	43	3,402	3,445	45	3,581	3,626	47	3,760	3,807	1.41%	1.41%	1.41%
2027	45	3,419	3,464	47	3,599	3,646	49	3,779	3,829	3.71%	0.53%	0.57%
2028	44	3,438	3,482	46	3,619	3,665	49	3,800	3,849	-0.90%	0.54%	0.52%
2029	45	3,456	3,501	47	3,638	3,685	49	3,820	3,869	1.48%	0.52%	0.53%
2030	45	3,445	3,490	47	3,627	3,674	50	3,808	3,857	0.11%	-0.31%	-0.30%
2031	45	3,463	3,508	47	3,645	3,692	50	3,827	3,877	0.27%	0.50%	0.50%
2032	44	3,508	3,553	47	3,693	3,740	49	3,878	3,926	-1.57%	1.32%	1.28%
2033	46	3,523	3,569	48	3,709	3,757	51	3,894	3,945	3.91%	0.43%	0.47%
2034	47	3,539	3,585	49	3,725	3,774	52	3,911	3,963	1.45%	0.44%	0.45%
2035	47	3,554	3,601	50	3,741	3,790	52	3,928	3,980	1.34%	0.42%	0.43%
2036	44	3,541	3,585	47	3,727	3,774	49	3,913	3,962	-5.95%	-0.36%	-0.44%
2037	45	3,584	3,629	47	3,773	3,820	50	3,961	4,011	1.21%	1.22%	1.22%
2038	47	3,596	3,643	49	3,785	3,834	51	3,975	4,026	3.53%	0.34%	0.38%
2039	48	3,608	3,656	51	3,798	3,848	53	3,987	4,041	3.63%	0.32%	0.36%
2040	47	3,621	3,668	49	3,812	3,861	52	4,002	4,054	-3.34%	0.37%	0.32%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	17,373	333,068	350,441	18,287	350,598	368,885	19,202	368,128	387,329	0.00%	0.00%	0.00%
2022	17,714	334,897	352,611	18,646	352,524	371,170	19,578	370,150	389,728	1.96%	0.55%	0.62%
2023	18,054	336,734	354,788	19,005	354,456	373,461	19,955	372,179	392,134	1.92%	0.55%	0.62%
2024	18,494	340,610	359,105	19,467	358,537	378,005	20,441	376,464	396,905	2.43%	1.15%	1.22%
2025	18,727	340,379	359,106	19,712	358,293	378,006	20,698	376,208	396,906	1.26%	-0.07%	0.00%
2026	19,053	342,133	361,086	20,056	360,140	380,195	21,058	378,147	399,205	1.74%	0.52%	0.58%
2027	19,372	343,855	363,227	20,392	361,952	382,344	21,412	380,050	401,462	1.68%	0.50%	0.57%
2028	19,785	347,558	367,343	20,826	365,850	386,676	21,868	384,143	406,010	2.13%	1.08%	1.13%
2029	19,988	347,171	367,159	21,040	365,443	386,483	22,093	383,715	405,807	1.03%	-0.11%	0.03%
2030	20,286	348,780	369,066	21,353	367,137	388,491	22,421	385,494	407,915	1.49%	0.46%	0.52%
2031	20,575	350,348	370,923	21,657	368,788	390,445	22,740	387,221	409,967	1.42%	0.45%	0.50%
2032	20,968	353,962	374,929	22,071	372,591	394,663	23,175	391,221	414,396	1.91%	1.03%	1.08%
2033	21,123	353,288	374,411	22,235	371,882	394,116	23,346	390,476	413,822	0.74%	-0.19%	0.74%
2034	21,386	354,703	376,088	22,511	373,371	395,882	23,637	392,040	415,677	1.24%	0.40%	0.45%
2035	21,642	356,090	377,731	22,781	374,831	397,612	23,920	393,573	417,493	1.20%	0.39%	0.44%
2036	22,003	359,559	381,562	23,161	378,483	401,645	24,319	397,407	421,727	1.67%	0.97%	1.01%
2037	22,117	358,662	380,779	23,281	377,539	400,820	24,445	396,416	420,861	0.52%	-0.25%	-0.21%
2038	22,341	359,869	382,211	23,517	378,810	402,327	24,693	397,750	422,443	1.01%	0.34%	0.38%
2039	22,554	361,012	383,567	23,742	380,013	403,754	24,929	399,013	423,942	0.95%	0.32%	0.35%
2040	22,887	364,308	387,195	24,092	383,482	407,574	25,296	402,656	427,952	1.47%	0.91%	0.95%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	23	109	132	23	109	132	23	109	132	0.00%	0.00%	0.00%
2022	24	109	133	24	109	133	24	110	134	1.80%	0.38%	0.63%
2023	24	109	133	24	110	134	25	110	134	0.69%	0.15%	0.25%
2024	24	109	134	25	110	135	26	111	137	1.37%	0.30%	0.49%
2025	24	110	134	26	111	137	27	112	139	1.17%	0.26%	0.43%
2026	25	110	135	26	112	138	28	113	140	0.81%	0.23%	0.33%
2027	25	110	135	27	112	139	29	114	141	1.76%	0.22%	0.50%
2028	25	111	136	27	113	140	29	115	144	0.31%	0.22%	0.24%
2029	25	111	136	28	113	141	31	115	146	1.69%	0.22%	0.49%
2030	26	111	137	28	114	142	31	116	147	0.30%	0.22%	0.24%
2031	26	111	137	29	114	143	32	117	149	1.48%	0.29%	0.52%
2032	26	112	138	29	115	144	33	118	150	0.43%	0.18%	0.23%
2033	26	112	138	30	115	145	34	119	153	1.28%	0.33%	0.51%
2034	27	112	139	30	116	146	35	119	154	0.69%	0.11%	0.22%
2035	27	112	139	31	116	147	36	121	156	0.96%	0.36%	0.48%
2036	27	113	140	32	117	149	37	121	158	1.34%	0.14%	0.37%
2037	27	113	140	32	117	149	37	122	160	0.26%	0.29%	0.28%
2038	28	113	141	33	118	151	39	123	162	1.56%	0.21%	0.48%
2039	28	113	141	33	118	151	39	124	163	0.13%	0.21%	0.20%
2040	28	114	142	34	119	153	41	125	166	1.39%	0.25%	0.47%

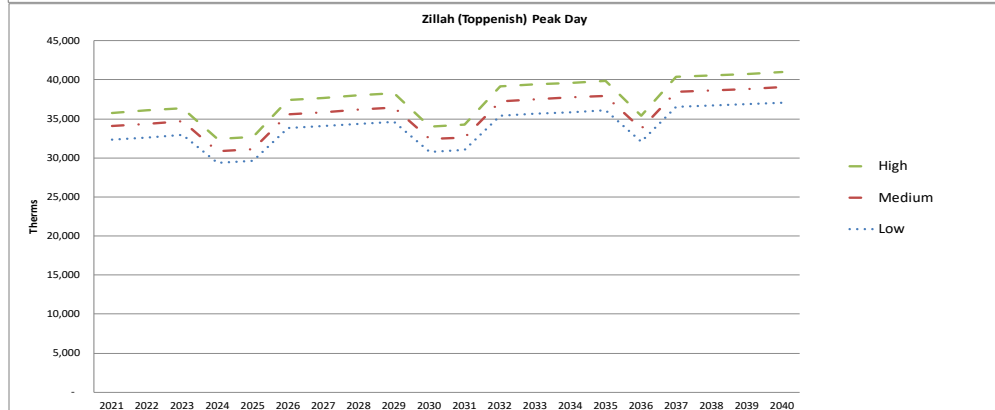
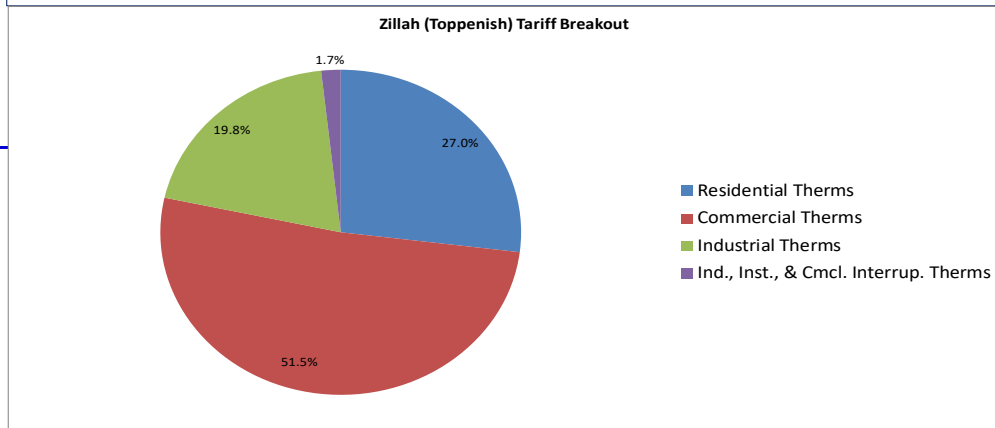
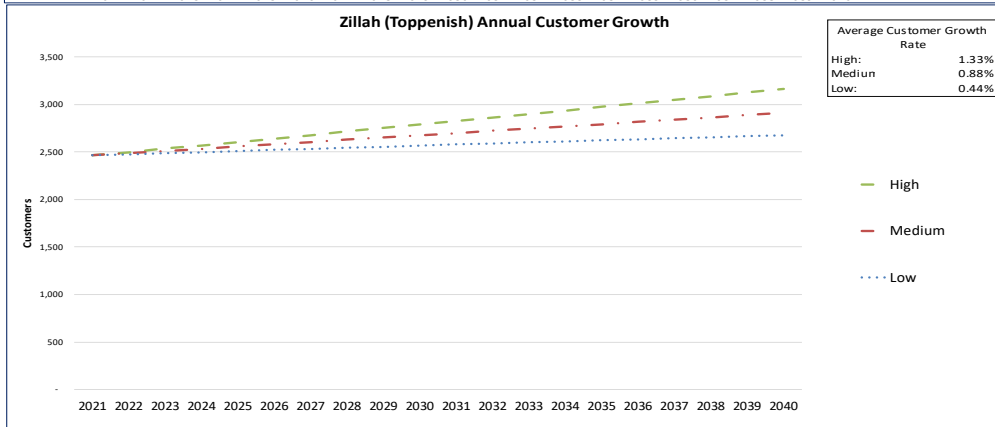
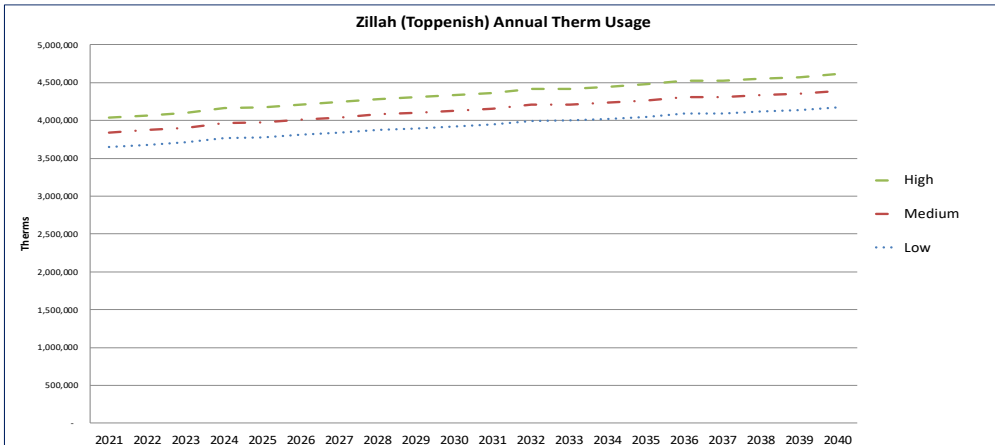


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zillah (Toppenish)																		
Annual Requirements (Therms)									Annual Change									
Low			Medium			High			Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	2,661,031	989,816	3,650,848	2,801,086	1,041,912	3,842,998	2,941,140	1,094,008	4,035,147	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,674,303	1,005,037	3,679,340	2,815,056	1,057,934	3,872,989	2,955,808	1,110,831	4,066,639	0.50%	1.54%	0.78%	0.50%	1.54%	0.78%	0.50%	1.54%	0.78%
2023	3,320,424	390,747	3,711,171	3,495,183	411,313	3,906,496	3,669,942	431,878	4,101,821	24.16%	-61.12%	0.87%	24.16%	-61.12%	0.87%	24.16%	-61.12%	0.87%
2024	3,351,972	412,275	3,764,247	3,528,391	433,974	3,962,365	3,704,811	455,672	4,160,483	0.95%	5.51%	1.43%	0.95%	5.51%	1.43%	0.95%	5.51%	1.43%
2025	2,668,625	1,109,279	3,777,904	2,809,079	1,167,662	3,976,741	2,949,533	1,226,045	4,175,578	-20.39%	169.06%	0.36%	-20.39%	169.06%	0.36%	-20.39%	169.06%	0.36%
2026	2,805,644	1,002,746	3,808,390	2,953,309	1,055,522	4,008,831	3,100,934	1,108,298	4,209,272	5.13%	-9.60%	0.81%	5.13%	-9.60%	0.81%	5.13%	-9.60%	0.81%
2027	2,789,559	1,049,090	3,838,649	2,936,378	1,104,206	4,040,584	3,083,197	1,159,521	4,242,718	-0.57%	4.62%	0.79%	-0.57%	4.62%	0.79%	-0.57%	4.62%	0.79%
2028	3,468,341	409,640	3,877,981	3,650,885	431,200	4,082,086	3,833,430	452,760	4,286,190	24.33%	-60.95%	1.02%	24.33%	-60.95%	1.02%	24.33%	-60.95%	1.02%
2029	3,092,657	803,755	3,896,413	3,255,429	846,058	4,101,487	3,418,201	888,361	4,306,561	-10.83%	96.21%	0.48%	-10.83%	96.21%	0.48%	-10.83%	96.21%	0.48%
2030	3,507,788	416,538	3,924,326	3,692,408	438,461	4,130,869	3,877,029	460,384	4,337,413	13.42%	-48.18%	0.72%	13.42%	-48.18%	0.72%	13.42%	-48.18%	0.72%
2031	2,789,512	1,161,950	3,951,462	2,936,328	1,223,105	4,159,434	3,083,145	1,284,260	4,367,405	-20.48%	178.95%	0.69%	-20.48%	178.95%	0.69%	-20.48%	178.95%	0.69%
2032	2,922,853	1,073,757	3,996,611	3,076,688	1,130,271	4,206,959	3,230,522	1,186,784	4,417,307	4.78%	-7.59%	1.14%	4.78%	-7.59%	1.14%	4.78%	-7.59%	1.14%
2033	2,911,140	1,088,211	3,999,351	3,064,358	1,145,485	4,209,843	3,217,576	1,202,759	4,420,335	-0.40%	1.35%	0.07%	-0.40%	1.35%	0.07%	-0.40%	1.35%	0.07%
2034	3,612,217	411,637	4,023,853	3,802,333	433,302	4,235,635	3,992,450	454,967	4,447,417	24.08%	-62.17%	0.61%	24.08%	-62.17%	0.61%	24.08%	-62.17%	0.61%
2035	3,226,073	825,613	4,051,686	3,395,866	869,067	4,264,933	3,565,659	912,520	4,478,180	-10.69%	100.57%	0.69%	-10.69%	100.57%	0.69%	-10.69%	100.57%	0.69%
2036	2,896,391	1,197,322	4,093,714	3,048,833	1,250,339	4,309,172	3,201,275	1,322,556	4,524,831	-10.22%	45.02%	1.04%	-10.22%	45.02%	1.04%	-10.22%	45.02%	1.04%
2037	3,022,548	1,073,736	4,096,284	3,181,630	1,130,249	4,311,878	3,340,711	1,186,761	4,527,472	4.36%	-10.32%	0.06%	4.36%	-10.32%	0.06%	4.36%	-10.32%	0.06%
2038	2,997,074	1,120,523	4,117,597	3,154,815	1,179,498	4,334,313	3,312,555	1,238,473	4,551,028	-0.84%	4.36%	0.52%	-0.84%	4.36%	0.52%	-0.84%	4.36%	0.52%
2039	2,999,843	1,133,847	4,133,690	3,157,729	1,193,523	4,351,252	3,315,616	1,253,199	4,568,815	0.09%	1.19%	0.39%	0.09%	1.19%	0.39%	0.09%	1.19%	0.39%
2040	3,738,370	434,238	4,172,608	3,935,126	457,093	4,392,219	4,131,883	479,947	4,611,830	24.62%	-61.70%	0.94%	24.62%	-61.70%	0.94%	24.62%	-61.70%	0.94%

Peak Day - BaseLoad									Annual Change									
Low			Medium			High			Low			Medium			High			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	2,712	29,635	32,347	2,855	31,195	34,049	2,997	32,754	35,752	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,754	29,882	32,635	2,898	31,455	34,353	3,043	33,027	36,071	1.54%	0.83%	0.89%	1.54%	0.83%	0.89%	1.54%	0.83%	0.89%
2023	1,071	31,851	32,921	1,127	33,527	34,654	1,183	35,203	36,387	-61.12%	6.59%	0.88%	-61.12%	6.59%	0.88%	-61.12%	6.59%	0.88%
2024	1,130	28,208	29,337	1,189	29,693	30,882	1,248	31,177	32,426	5.51%	-11.44%	-10.89%	5.51%	-11.44%	-10.89%	5.51%	-11.44%	-10.89%
2025	2,039	25,544	27,583	2,199	27,941	31,140	2,359	29,328	32,687	169.06%	-5.90%	0.36%	169.06%	-5.90%	0.36%	169.06%	-5.90%	0.36%
2026	2,747	31,057	33,804	2,892	32,691	35,583	3,036	34,326	37,362	-9.60%	17.00%	14.27%	-9.60%	17.00%	14.27%	-9.60%	17.00%	14.27%
2027	2,874	31,197	34,071	3,025	32,838	35,864	3,177	34,490	37,657	4.62%	0.45%	0.79%	4.62%	0.45%	0.79%	4.62%	0.45%	0.79%
2028	1,122	33,258	34,380	1,181	35,009	36,190	1,240	36,579	37,999	-60.95%	6.61%	0.91%	-60.95%	6.61%	0.91%	-60.95%	6.61%	0.91%
2029	2,202	32,432	34,634	2,318	34,139	36,457	2,434	35,846	38,280	96.21%	-2.48%	0.74%	96.21%	-2.48%	0.74%	96.21%	-2.48%	0.74%
2030	1,141	29,637	30,778	1,201	31,197	32,398	1,261	32,757	34,018	-48.18%	-8.62%	-11.13%	-48.18%	-8.62%	-11.13%	-48.18%	-8.62%	-11.13%
2031	3,183	27,805	30,989	3,351	29,269	32,620	3,519	30,732	34,251	178.95%	-6.18%	0.68%	178.95%	-6.18%	0.68%	178.95%	-6.18%	0.68%
2032	2,942	32,463	35,405	3,097	34,127	37,268	3,251	35,880	39,132	-7.59%	16.75%	14.25%	-7.59%	16.75%	14.25%	-7.59%	16.75%	14.25%
2033	2,981	32,648	35,629	3,138	34,366	37,505	3,295	36,085	39,380	1.35%	0.57%	0.63%	1.35%	0.57%	0.63%	1.35%	0.57%	0.63%
2034	1,128	34,718	35,846	1,187	36,546	37,733	1,246	38,373	39,619	-62.17%	6.34%	0.61%	-62.17%	6.34%	0.61%	-62.17%	6.34%	0.61%
2035	2,262	33,792	36,054	2,381	35,570	37,952	2,500	37,949	39,849	100.57%	-2.67%	0.58%	100.57%	-2.67%	0.58%	100.57%	-2.67%	0.58%
2036	3,280	28,762	32,043	3,453	30,276	33,729	3,626	31,790	35,416	45.02%	-14.88%	-11.13%	45.02%	-14.88%	-11.13%	45.02%	-14.88%	-11.13%
2037	2,942	33,555	36,496	3,097	35,321	38,417	3,251	37,087	40,338	-10.32%	16.66%	13.90%	-10.32%	16.66%	13.90%	-10.32%	16.66%	13.90%
2038	3,070	33,609	36,679	3,232	35,378	38,610	3,393	37,147	40,540	4.36%	0.16%	0.50%	4.36%	0.16%	0.50%	4.36%	0.16%	0.50%
2039	3,106	33,748	36,855	3,270	35,524	38,794	3,433	37,301	40,734	1.19%	0.41%	0.48%	1.19%	0.41%	0.48%	1.19%	0.41%	0.48%
2040	1,190	35,889	37,078	1,252	37,777	39,030	1,315	39,666	40,981	-61.70%	6.34%	0.61%	-61.70%	6.34%	0.61%	-61.70%	6.34%	0.61%

Therms Usage by Class												Annual Change						
Low			Medium			High			Low			Medium			High			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2021	997,133	2,653,715	3,650,848	1,049,614	2,793,384	3,842,998	1,102,094	2,933,053	4,035,147	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,003,407	2,653,715	3,679,340	1,056,218	2,816,772	3,872,989	1,109,029	2,957,610	4,066,639	0.63%	0.84%	0.78%	0.63%	0.84%	0.78%	0.63%	0.84%	0.78%
2023	1,010,423	2,700,749	3,711,171	1,063,603	2,842,893	3,906,496	1,116,783	2,985,038	4,101,821	0.70%	0.93%	0.87%	0.70%	0.93%	0.87%	0.70%	0.93%	0.87%
2024	1,023,577	2,740,669	3,764,247	1,077,450	2,884,915	3,962,365	1,131,322	3,029,161	4,160,483	1.30%	1.48%	1.43%	1.30%	1.48%	1.43%	1.30%	1.48%	1.43%
2025	1,025,546	2,752,358	3,777,904	1,079,522	2,897,219	3,976,741	1,133,498	3,042,080	4,175,578	0.19%	0.43%	0.36%	0.19%	0.43%	0.36%	0.19%	0.43%	0.36%
2026	1,032,267	2,776,122	3,808,390	1,086,597	2,922,234	4,008,831	1,140,937	3,068,245	4,209,272	0.66%	0.86%	0.81%	0.66%	0.86%	0.81%	0.66%	0.86%	0.81%
2027	1,039,152	2,799,497	3,838,649	1,093,844	2,946,839	4,040,584	1,148,537	3,094,181	4,242,718	0.67%	0.84%	0.79%	0.67%	0.84%	0.79%	0.67%	0.84%	0.79%
2028	1,048,781	2,829,200	3,877,981	1,103,890	2,978,106	4,082,086	1,159,179	3,127,011	4,286,190	0.93%	1.06%	1.02%	0.93%	1.06%	1.02%	0.93%	1.06%	1.02%
2029	1,051,978	2,844,434	3,896,413	1,107,346	2,994,141	4,101,487	1,162,713	3,143,848	4,306,561	0.30%	0.54%	0.48%	0.30%	0.54%	0.48%	0.30%	0.54%	0.48%
2030	1,058,229	2,866,097	3,924,326	1,113,925	3,016,944	4,130,869	1,169,621	3,167,991	4,337,413	0.59%	0.76%	0.72%	0.59%	0.76%	0.72%	0.59%	0.76%	0.72%
2031	1,064,377	2,887,085	3,951,462	1,120,397	3,039,037	4,159,434	1,176,417	3,190,989	4,367,405	0.58%	0.73%	0.69%	0.58%	0.73%	0.69%	0.58%	0.73%	0.69%
2032	1,075,327	2,920,883	3,996,611	1,132,345	3,074,614	4,206,959	1,188,962	3,228,345	4,417,307	1.07%	1.17%	1.14%	1.07%	1.17%	1.14%	1.07%	1.17%	1.14%
2033	1,075,073	2,924,278	3,999,351	1,131,656	3,078,187	4,209,843	1,188,239	3,232,097	4,420,335	-0.06%	0.12%	0.07%	-0.06%	0.12%	0.07%	-0.06%	0.12%	0.07%
2034	1,080,441	2,943,412	4,023,853	1,137,306	3,098,329													



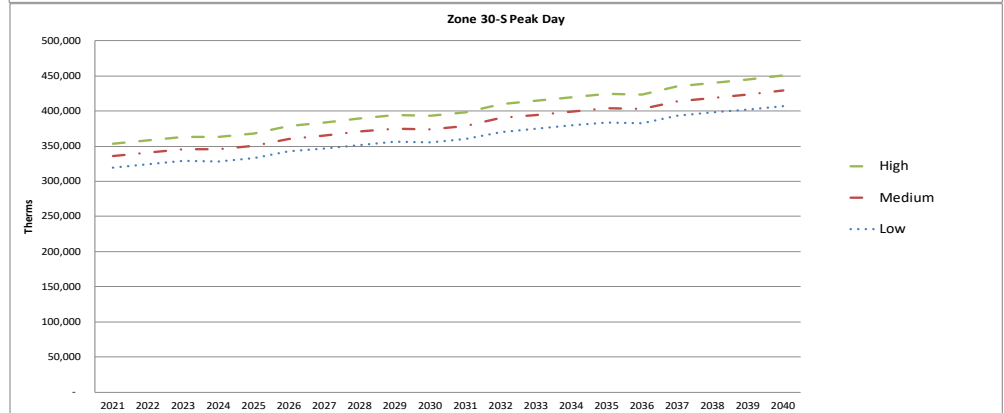
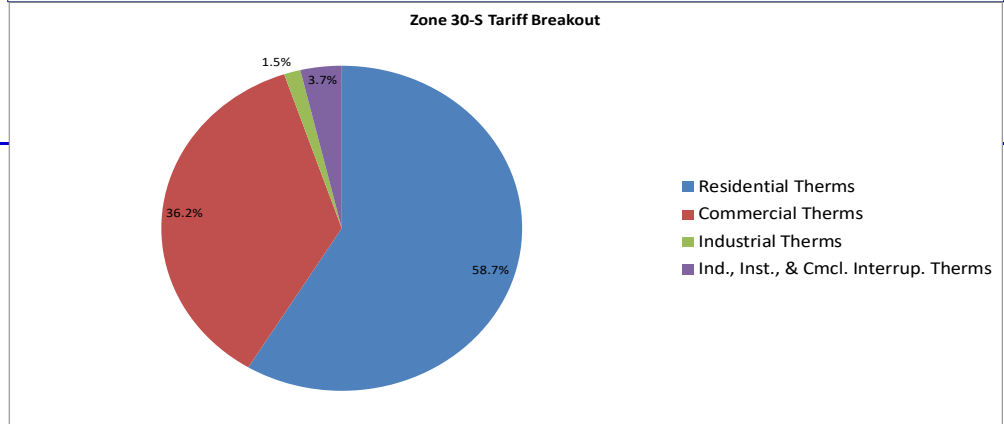
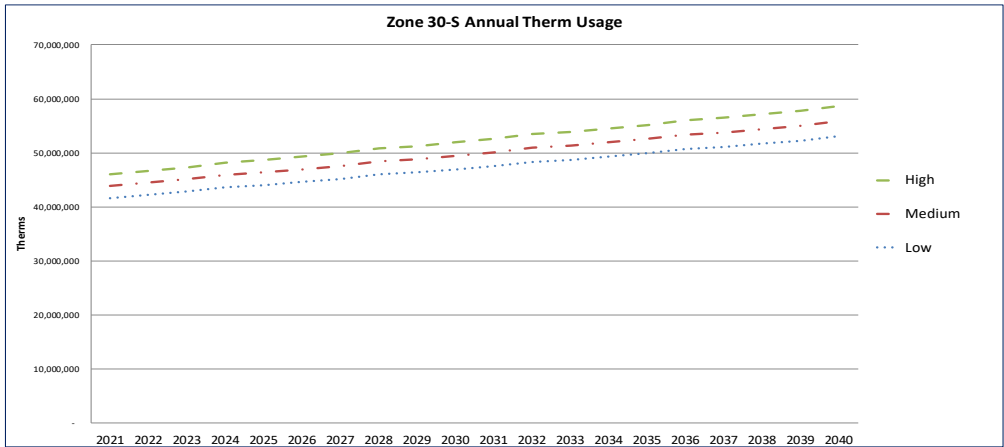
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone 30-S														
Annual Requirements (Therms)														
Low			Medium			High			Annual Change					
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	28,272,185	13,410,322	41,682,507	29,760,195	14,116,128	43,876,323	31,248,202	14,821,938	46,070,140	0.00%	0.00%	0.00%	0.00%	0.00%
2022	28,665,958	13,604,159	42,270,117	30,174,691	14,320,169	44,494,860	31,683,423	15,036,180	46,719,602	1.39%	1.45%	1.41%	1.39%	1.41%
2023	29,429,772	13,429,479	42,859,251	30,978,711	14,136,290	45,115,001	32,527,645	14,843,106	47,370,751	2.66%	-1.28%	1.39%	2.66%	-1.28%
2024	30,003,036	13,636,182	43,639,218	31,582,143	14,353,875	45,936,018	33,161,251	15,071,568	48,232,820	1.95%	1.54%	1.82%	1.95%	1.54%
2025	29,916,473	14,126,954	44,043,427	31,491,023	14,872,585	46,363,607	33,065,573	15,616,215	48,681,788	-0.29%	3.61%	0.93%	-0.29%	3.61%
2026	30,324,810	14,309,796	44,634,606	31,920,851	15,062,945	46,983,796	33,516,895	15,816,090	49,332,986	1.36%	1.28%	1.34%	1.36%	1.28%
2027	30,720,664	14,503,184	45,223,848	32,337,543	15,266,507	47,604,050	33,954,417	16,029,835	49,984,253	1.31%	1.35%	1.32%	1.31%	1.35%
2028	31,656,083	14,341,486	45,997,570	33,322,194	15,096,301	48,418,495	34,988,305	15,851,116	50,839,421	3.04%	-1.11%	1.71%	3.04%	-1.11%
2029	31,627,039	14,777,886	46,404,925	33,291,621	15,555,458	48,847,079	34,956,201	16,333,230	51,289,432	-0.09%	3.04%	0.89%	-0.09%	3.04%
2030	32,283,734	14,710,326	46,994,060	33,982,877	15,484,553	49,467,430	35,682,023	16,258,780	51,940,803	2.08%	-0.46%	1.27%	2.08%	-0.46%
2031	32,363,750	15,219,603	47,583,353	34,067,110	16,020,630	50,087,740	35,770,461	16,821,665	52,592,126	0.25%	3.46%	1.25%	0.25%	3.46%
2032	32,958,740	15,419,498	48,378,238	34,693,412	16,231,048	50,924,460	36,428,083	17,042,602	53,470,685	1.84%	1.31%	1.67%	1.84%	1.31%
2033	33,144,819	15,613,680	48,758,499	34,889,283	16,435,451	51,324,734	36,633,749	17,257,224	53,890,973	0.56%	1.26%	0.79%	0.56%	1.26%
2034	33,933,965	15,413,743	49,347,708	35,719,962	16,224,993	51,944,955	37,505,960	17,036,242	54,542,203	2.38%	-1.28%	1.21%	2.38%	-1.28%
2035	34,075,547	15,866,361	49,941,908	35,870,045	16,701,437	52,571,482	37,663,551	17,536,507	55,200,058	0.42%	2.94%	1.21%	0.42%	2.94%
2036	34,612,711	16,135,304	50,748,015	36,434,438	16,984,527	53,418,965	38,256,156	17,833,759	56,089,814	1.57%	1.70%	1.61%	1.57%	1.70%
2037	34,808,168	16,315,897	51,124,065	36,640,177	17,174,628	53,814,805	38,472,189	18,033,356	56,505,544	0.56%	1.12%	0.74%	0.56%	1.12%
2038	35,202,571	16,510,850	51,713,421	37,055,340	17,379,840	54,435,180	38,908,107	18,248,832	57,156,399	1.13%	1.19%	1.15%	1.13%	1.19%
2039	35,595,251	16,706,283	52,296,534	37,463,425	17,585,560	55,048,984	39,336,596	18,464,838	57,801,434	1.10%	1.18%	1.10%	1.10%	1.18%
2040	36,560,079	16,551,523	53,111,602	38,484,292	17,422,658	55,906,950	40,408,509	18,293,790	58,702,299	2.72%	-0.93%	1.56%	2.72%	-0.93%

Peak Day - BaseLoad														
Low			Medium			High			Annual Change					
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	36,741	282,828	319,569	38,674	297,714	336,389	40,608	312,600	353,208	0.00%	0.00%	0.00%	0.00%	0.00%
2022	37,272	286,844	324,116	39,233	301,941	341,175	41,195	317,038	358,233	1.45%	1.42%	1.42%	1.45%	1.42%
2023	36,793	291,866	328,659	38,730	307,228	345,957	40,666	322,589	363,255	-1.28%	1.75%	1.40%	-1.28%	1.75%
2024	37,359	290,899	328,258	39,326	306,209	345,535	41,292	321,520	362,812	1.54%	-0.33%	-0.12%	1.54%	-0.33%
2025	38,009	292,441	330,450	40,747	309,507	349,254	42,784	324,982	365,766	3.61%	1.37%	1.08%	3.61%	1.37%
2026	39,205	303,368	342,573	41,268	319,335	360,603	43,332	335,302	378,633	1.28%	3.18%	2.95%	1.28%	3.18%
2027	39,735	307,379	347,114	41,826	323,557	365,383	43,917	339,735	383,652	1.35%	1.32%	1.33%	1.35%	1.32%
2028	39,292	312,657	351,948	41,360	329,112	370,472	43,428	345,568	388,996	-1.11%	1.72%	1.39%	-1.11%	1.72%
2029	40,487	316,004	356,491	42,618	332,636	375,254	44,749	349,268	394,016	3.04%	1.07%	1.29%	3.04%	1.07%
2030	40,302	315,126	355,428	42,423	331,711	374,135	44,545	348,297	392,842	-0.46%	-0.28%	-0.40%	-0.46%	-0.28%
2031	41,698	318,206	359,903	43,892	334,954	378,846	46,087	351,701	397,788	3.46%	0.98%	1.26%	3.46%	0.98%
2032	42,245	328,168	370,413	44,469	345,440	389,909	46,692	362,712	409,404	1.31%	3.13%	2.92%	1.31%	3.13%
2033	42,777	332,176	374,953	45,029	349,659	394,687	47,280	367,142	414,422	1.26%	1.22%	1.23%	1.26%	1.22%
2034	43,229	337,261	379,491	44,452	355,012	399,464	46,675	372,762	419,437	-1.28%	1.53%	1.21%	-1.28%	1.53%
2035	43,465	340,556	384,026	45,757	358,480	404,238	48,045	376,404	424,449	2.94%	0.98%	1.20%	2.94%	0.98%
2036	44,206	338,693	382,899	46,533	356,519	403,052	48,860	374,345	423,204	1.70%	-0.55%	-0.29%	1.70%	-0.55%
2037	44,701	348,715	393,416	47,054	367,069	414,122	49,406	385,422	434,828	1.12%	2.96%	2.75%	1.12%	2.96%
2038	45,235	352,716	397,951	47,616	371,280	418,896	49,997	389,844	439,840	1.19%	1.15%	1.15%	1.19%	1.15%
2039	45,771	356,712	402,483	48,180	375,487	423,666	50,589	391,661	444,850	1.18%	1.13%	1.14%	1.18%	1.13%
2040	45,347	362,000	407,346	47,733	381,052	428,785	50,120	400,105	450,225	-0.93%	1.48%	1.21%	-0.93%	1.48%

Therms Usage by Class														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	24,562,898	17,119,609	41,682,507	25,855,682	18,020,641	43,876,323	27,148,466	18,921,674	46,070,140	0.00%	0.00%	0.00%	0.00%	0.00%
2022	24,935,598	17,334,519	42,270,117	26,247,999	18,246,861	44,494,860	27,560,398	19,159,205	46,719,602	1.52%	1.26%	1.41%	1.52%	1.26%
2023	25,310,968	17,548,283	42,859,251	26,643,124	18,471,876	45,115,001	27,975,281	19,395,470	47,370,751	1.51%	1.23%	1.39%	1.51%	1.23%
2024	25,802,176	17,837,041	43,639,218	27,160,186	18,775,832	45,936,018	28,518,196	19,714,624	48,232,820	1.94%	1.65%	1.82%	1.94%	1.65%
2025	26,066,288	17,979,139	44,043,427	27,438,198	18,925,410	46,363,607	28,810,108	19,871,680	48,681,788	1.02%	0.80%	1.02%	1.02%	0.80%
2026	26,441,763	18,192,843	44,634,606	27,833,435	19,150,361	46,983,796	29,225,106	20,107,879	49,332,986	1.44%	1.19%	1.44%	1.44%	1.19%
2027	26,817,240	18,406,609	45,223,848	28,228,672	19,375,378	47,604,050	29,640,106	20,344,146	49,984,253	1.42%	1.17%	1.42%	1.42%	1.17%
2028	27,306,131	18,691,439	45,997,570	28,743,296	19,675,199	48,418,495	30,180,462	20,658,959	50,839,421	1.82%	1.55%	1.71%	1.82%	1.55%
2029	27,569,703	18,835,021	46,404,925	29,020,740	19,826,339	48,847,079	30,471,776	20,817,655	51,289,432	0.97%	0.77%	0.89%	0.97%	0.77%
2030	27,945,192	19,048,868	46,994,060	29,415,991	20,051,439	49,467,430	30,886,791	21,054,012	51,940,803	1.36%	1.14%	1.27%	1.36%	1.14%
2031	28,320,694	19,262,660	47,583,353	29,811,257	20,276,483	50,087,740	31,301,819	21,290,308	52,592,126	1.34%	1.12%	1.25%	1.34%	1.12%
2032	28,322,259	19,555,979	48,378,238	30,339,219	20,585,241	50,924,460	31,856,182	21,614,503	53,470,685	1.77%	1.52%	1.67%	1.77%	1.52%
2033	29,070,027	19,688,472	48,758,499	30,600,027	20,724,707	51,324,734	32,130,031	21,760,942	53,890,973	0.86%	0.68%	0.79%	0.86%	0.68%
2034	29,445,462	19,902,246	49,347,708	30,995,222	20,949,733	51,944,955	32,544,983	21,997,220	54,542,203	1.29%	1.09%	1.21%	1.29%	1.09%
2035	29,824,225	20,118,684	49,942,908	31,393,920	21,177,562	52,571,482	32,963,618	22,236,439	55,200,058	1.29%	1.09%	1.21%	1.29%	1.09%
2036	30,332,363	20,415,652	50,748,015	31,928,805	21,490,160	53,418,966	33,525,166	22,564,669	56,089,814	1.70%	1.48%	1.70%	1.48%	1.61%
2037	30,576,844	20,547,220	51,124,065	32,186,152	21,628,653	53,814,805	33,795,459	22,710,086	56,505,544	0.81%	0.64%	0.81%	0.64%	0.74%
2038	30,952,372	20,761,049	51,713,421	32,581,444	21,853,736	54,435,180	34,210,516	22,942,432	57,156,399	1.23%	1.04%	1.23%	1.04%	1.15%
2039	31,324,407	20,972,127	52,296,534	32,973,061	22,075,924	55,048,984	34,621,715	23,179,719	57,801,434	1.20%	1.02%	1.13%	1.20%	1.02%
2040	31,839,053	21,272,550	53,111,602	33,514,791	22,392,158	55,906,950	35,190,533	23,511,766	58,702,299	1.64%	1.43%	1.56%	1.64%	1.43%

Customer Count Forecast														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	37,851	3,926	41,777	37,851	3,926	41,777	37,851	3,926	41,777	0.00%	0.00%	0.00%	0.00%	0.00%
2022	38,156	3,955	42,111	38,461	3,984	42,446	38,767	4,014	42,780	0.8				

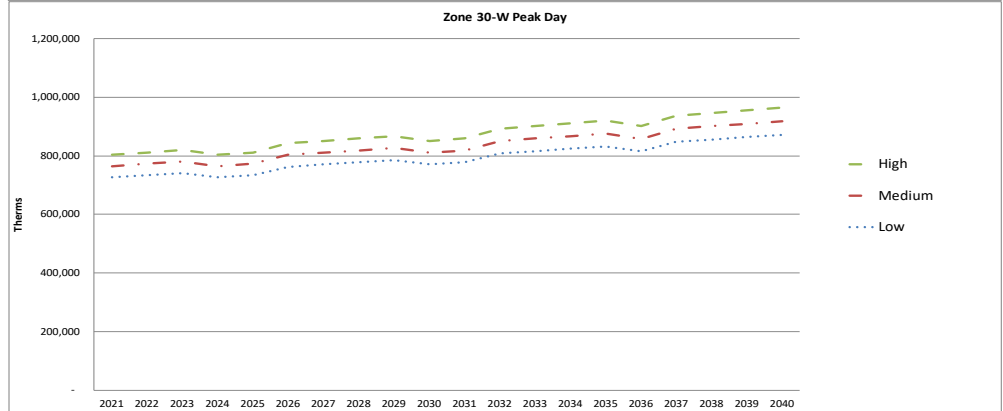
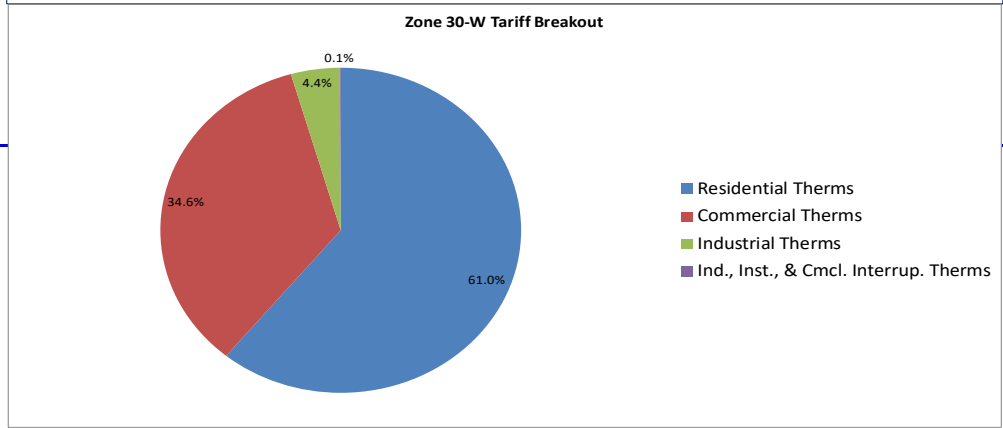
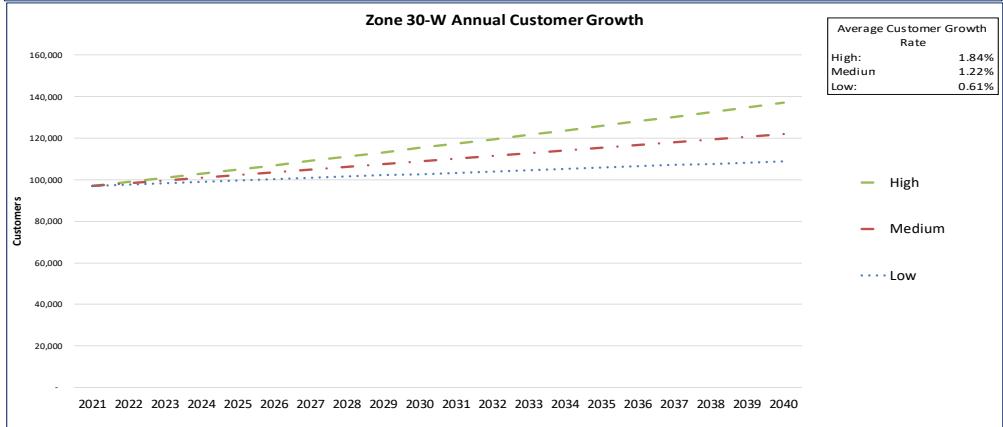
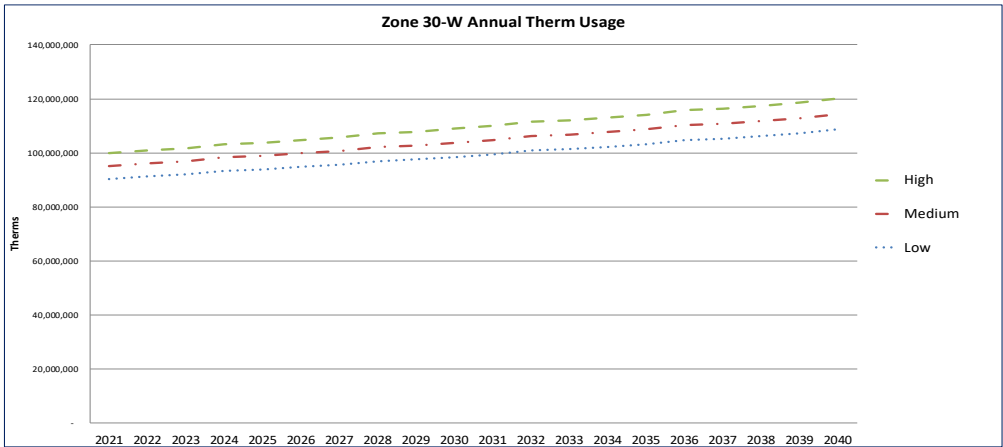


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone 30-W														
Annual Requirements (Therms)														
Low					Medium					High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	65,928,418	24,435,155	90,363,573	69,398,335	25,721,215	95,119,550	72,868,252	27,007,275	99,875,527	0.00%	0.00%	0.00%	0.00%	0.00%
2022	66,558,036	24,666,847	91,224,883	70,061,089	25,965,104	96,026,193	73,564,145	27,263,358	100,827,503	0.96%	0.95%	0.96%	0.95%	0.96%
2023	73,192,275	18,136,348	91,328,623	77,044,499	19,911,946	96,956,444	80,896,728	20,907,542	101,804,270	9.97%	-23.31%	0.97%	-23.31%	0.97%
2024	74,468,380	18,934,237	93,402,616	78,387,767	19,930,775	98,318,542	82,307,158	20,927,313	103,234,472	1.74%	0.09%	1.40%	0.09%	1.40%
2025	66,559,608	25,361,177	91,920,785	72,168,007	26,695,976	98,863,984	75,776,404	28,070,778	103,807,182	-7.93%	33.94%	0.55%	-7.93%	33.94%
2026	69,255,739	25,573,462	94,829,201	72,900,776	26,919,435	99,820,210	76,545,812	28,265,407	104,811,219	1.02%	0.84%	0.97%	1.02%	0.84%
2027	69,930,268	25,814,034	95,744,302	73,610,806	27,172,669	100,783,475	77,291,346	28,531,303	105,822,649	0.97%	0.94%	0.96%	0.97%	0.94%
2028	70,278,526	19,939,717	90,218,243	81,135,288	20,989,177	102,124,465	85,192,055	22,038,635	107,230,690	10.22%	-22.76%	1.33%	-22.76%	1.33%
2029	75,358,114	22,236,795	97,594,910	79,324,328	23,407,155	102,731,483	83,290,544	24,577,515	107,868,059	-2.23%	11.52%	0.59%	-2.23%	11.52%
2030	78,602,325	19,929,507	98,531,833	82,739,291	20,978,429	103,717,719	86,876,256	22,027,349	108,903,605	4.31%	-10.38%	0.96%	4.31%	-10.38%
2031	72,695,454	26,780,525	99,475,979	76,521,227	28,190,029	104,711,556	80,347,608	29,599,526	109,947,134	-7.51%	34.38%	0.96%	-7.51%	34.38%
2032	73,689,816	27,148,291	100,838,106	77,568,224	28,577,149	106,145,373	81,446,637	30,006,006	111,452,642	1.37%	1.37%	1.37%	1.37%	1.37%
2033	79,363,566	27,397,124	106,760,690	77,856,379	28,839,081	106,695,460	81,749,203	30,281,032	112,030,235	0.37%	0.92%	0.52%	0.37%	0.92%
2034	81,562,958	20,972,388	102,535,346	85,634,692	22,076,199	107,710,890	89,916,427	23,180,010	113,096,437	9.99%	-23.45%	0.95%	-23.45%	0.95%
2035	79,880,071	23,441,190	103,321,261	84,084,284	24,674,939	108,759,223	88,288,499	25,908,685	114,197,183	-1.81%	11.77%	0.97%	-1.81%	11.77%
2036	76,581,029	28,146,903	104,727,932	80,611,609	29,638,320	110,239,928	84,642,190	31,109,735	115,751,926	-4.13%	20.07%	1.36%	-4.13%	20.07%
2037	76,913,352	28,374,205	105,287,557	80,961,421	29,867,585	110,829,007	85,009,493	31,360,964	116,370,457	0.43%	0.81%	0.53%	0.43%	0.81%
2038	77,649,902	28,633,127	106,283,029	81,736,736	30,140,138	111,876,873	85,823,578	31,647,141	117,470,719	0.96%	0.91%	0.95%	0.96%	0.91%
2039	78,364,512	28,897,717	107,262,229	82,488,429	30,418,653	112,907,082	86,612,850	31,939,584	118,552,434	0.92%	0.92%	0.92%	0.92%	0.92%
2040	86,648,392	22,068,042	108,716,435	91,208,834	23,229,520	114,438,354	95,769,272	24,390,997	120,160,269	10.57%	-23.63%	1.36%	-23.63%	1.36%

Peak Day - BaseLoad														
Low					Medium					High				
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total
2021	66,946	659,891	726,836	70,469	694,622	765,091	73,993	729,353	803,346	0.00%	0.00%	0.00%	0.00%	0.00%
2022	67,580	666,474	734,054	71,137	701,551	772,688	74,694	736,629	811,323	0.95%	1.00%	0.99%	0.95%	1.00%
2023	51,826	689,476	741,302	54,553	725,764	780,318	57,281	762,053	819,334	-23.31%	3.45%	0.99%	-23.31%	3.45%
2024	51,875	675,112	726,987	54,605	710,644	765,249	57,335	746,177	803,512	0.09%	-2.08%	0.09%	-2.08%	0.09%
2025	65,683	669,483	735,165	73,140	699,665	773,805	76,797	738,549	811,445	33.94%	-1.54%	0.99%	-1.54%	0.99%
2026	70,064	692,972	763,036	73,752	729,444	803,196	77,439	765,917	843,356	0.84%	4.26%	0.84%	4.26%	0.84%
2027	70,723	699,826	770,550	74,446	736,659	811,105	78,168	773,492	851,660	0.94%	0.99%	0.98%	0.94%	0.99%
2028	54,629	723,050	777,680	57,505	761,106	818,610	60,380	799,161	859,541	-22.76%	3.32%	0.93%	-22.76%	3.32%
2029	60,923	724,399	785,321	64,129	762,525	826,654	67,336	806,651	867,987	11.52%	0.19%	0.98%	11.52%	0.19%
2030	54,601	715,928	770,530	57,475	753,609	811,084	60,349	791,289	851,638	-10.38%	-1.17%	-1.88%	-10.38%	-1.17%
2031	73,371	704,698	778,069	77,233	741,787	819,020	81,095	778,877	859,971	34.38%	-1.57%	0.98%	34.38%	-1.57%
2032	74,379	733,772	808,151	78,294	772,392	850,685	82,208	811,011	893,219	1.37%	4.13%	3.87%	1.37%	4.13%
2033	75,061	740,977	816,038	79,011	779,976	858,987	82,962	818,975	901,936	0.92%	0.98%	0.98%	0.92%	0.98%
2034	57,459	766,525	823,984	60,483	806,868	867,351	63,507	847,212	910,719	-23.45%	3.45%	0.97%	-23.45%	3.45%
2035	64,222	767,771	831,994	67,603	808,180	875,783	70,983	848,589	915,572	11.77%	0.16%	0.97%	11.77%	0.16%
2036	77,115	738,624	815,739	81,173	777,499	858,673	85,232	816,374	901,660	20.07%	-3.80%	-1.95%	20.07%	-3.80%
2037	77,738	769,996	847,734	81,829	810,523	892,352	85,920	851,049	936,969	0.81%	4.25%	3.92%	0.81%	4.25%
2038	78,447	777,498	855,945	82,576	818,419	900,994	86,704	859,339	946,044	0.91%	0.97%	0.97%	0.91%	0.97%
2039	79,172	785,407	864,219	83,339	826,365	909,704	87,506	867,683	955,189	0.92%	0.97%	0.97%	0.92%	0.97%
2040	60,460	811,614	872,075	63,643	854,331	917,973	66,825	897,048	963,872	-23.63%	3.38%	0.91%	-23.63%	3.38%

Therms Usage by Class														
Low					Medium					High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	55,556,744	34,806,829	90,363,573	58,480,783	36,638,767	95,119,550	61,404,822	38,470,705	99,875,527	0.00%	0.00%	0.00%	0.00%	0.00%
2022	56,026,514	35,198,369	91,224,883	58,975,279	37,050,914	96,026,193	61,924,043	38,903,460	100,827,503	0.85%	1.12%	0.95%	0.85%	1.12%
2023	56,511,494	35,597,129	92,108,623	59,485,782	37,470,662	96,956,444	62,460,075	39,344,195	101,804,270	0.87%	1.13%	0.97%	0.87%	1.13%
2024	57,554,098	36,148,519	93,702,616	60,267,470	38,051,072	98,318,542	63,280,846	39,953,626	103,234,472	1.31%	1.55%	1.40%	1.31%	1.55%
2025	57,505,389	36,414,396	93,920,785	60,533,041	38,330,943	98,863,984	63,559,692	40,247,489	103,807,182	0.44%	0.74%	0.55%	0.44%	0.74%
2026	58,004,188	36,825,014	94,829,201	61,057,039	38,763,171	99,820,210	64,109,890	40,701,330	104,811,219	0.87%	1.13%	0.97%	0.87%	1.13%
2027	58,505,709	37,238,593	95,744,302	61,584,956	39,198,519	100,783,475	64,664,203	41,158,445	105,822,649	0.86%	1.12%	0.96%	0.86%	1.12%
2028	59,233,639	37,784,064	97,018,243	62,351,198	39,773,268	102,124,465	65,468,760	41,761,331	107,230,690	1.24%	1.47%	1.33%	1.24%	1.47%
2029	59,520,034	38,074,875	97,594,910	62,652,667	40,078,816	102,731,483	65,785,302	42,082,757	107,868,059	0.48%	0.77%	0.59%	0.48%	0.77%
2030	60,033,596	38,498,236	98,531,833	63,193,259	40,524,460	103,717,719	66,352,922	42,550,683	108,903,605	0.86%	1.11%	0.96%	0.86%	1.11%
2031	60,551,229	38,924,750	99,475,979	63,738,135	40,973,421	104,711,556	66,925,042	43,022,092	109,947,134	0.86%	1.11%	0.96%	0.86%	1.11%
2032	61,330,470	39,507,636	100,838,106	64,588,389	41,586,985	106,145,373	67,786,308	43,666,335	111,452,642	1.29%	1.50%	1.37%	1.29%	1.50%
2033	61,583,793	39,776,896	101,360,689	64,825,043	41,870,417	106,695,460	68,066,297	43,963,938	112,030,235	0.41%	0.68%	0.52%	0.41%	0.68%
2034	62,113,149	40,212,197	102,325,346	65,382,262	42,328,627	107,710,890	68,651,377	44,465,660	113,096,437	0.86%	1.09%	0.95%	0.86%	1.09%
2035	62,660,919	40,660,342	103,321,261	65,958,864	42,800,359	108,759,223	69,256,807	44,940,377	114,197,183	0.88%	1.11%	0.97%	0.88%	1.11%
2036	63,465,435	41,262,946	104,727,932	66,805,721	43,434,207	110,239,928	70,146,008	45,605,918	115,751,926	1.28%	1.48%	1.36%	1.28%	1.48%
2037	63,740,341	41,547,216	105,287,557	67,095,095	43,733,912	110,829,007	70,449,850	45,920,607	116,370,457	0.43%	0.69%	0.53%	0.43%	0.69%
20														

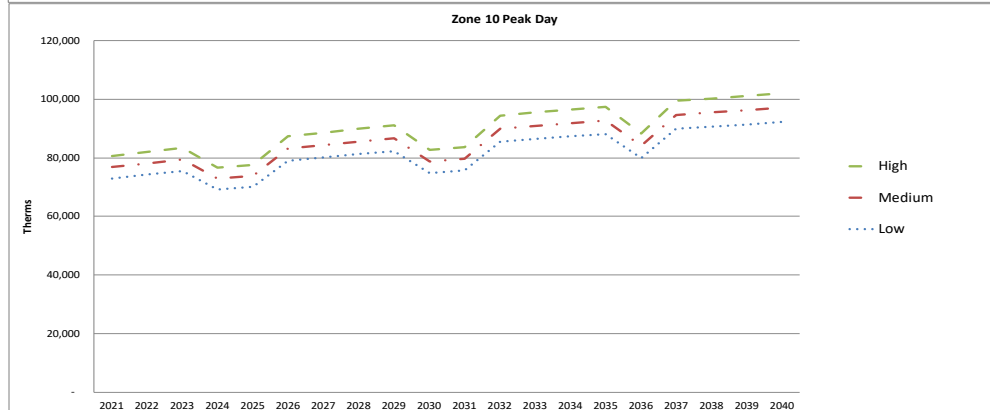
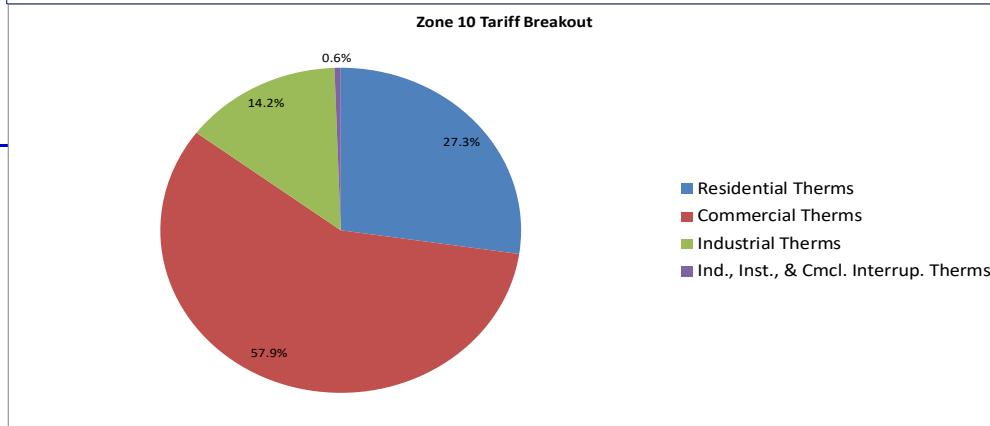
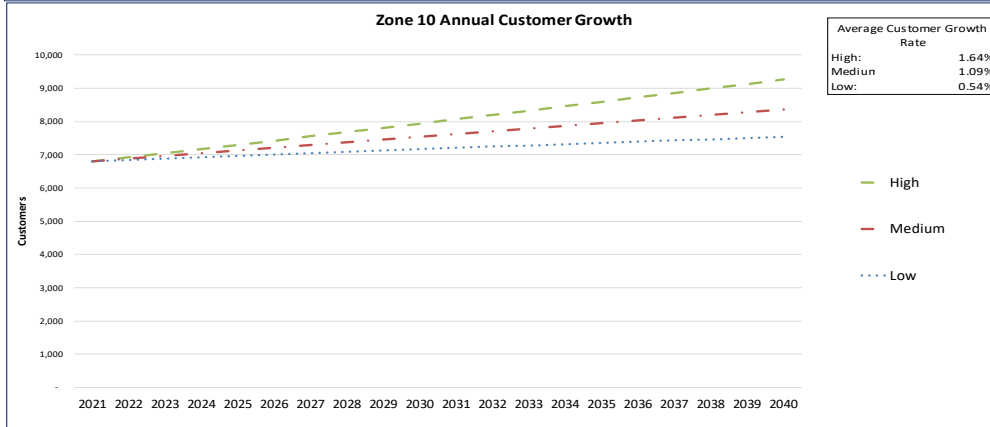
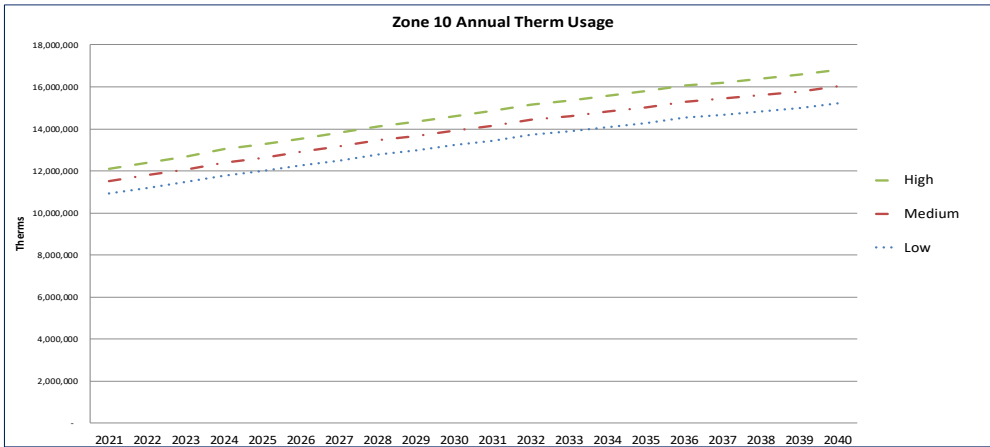


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Zone 10																		
Annual Requirements (Therms)									Annual Change									
Low			Medium			High			Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	0.00%	2.50%	2.39%	0.00%	2.50%	2.39%	0.00%	2.50%	2.39%	
2021	8,110,494	2,832,427	10,942,922	8,537,362	2,981,502	11,518,865	8,964,231	3,130,577	12,094,808	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	8,301,501	2,903,135	11,204,636	8,738,422	3,055,932	11,794,354	9,175,343	3,208,728	12,384,071	2.36%	2.50%	2.39%	2.36%	2.50%	2.39%	2.36%	2.50%	2.39%
2023	8,875,137	2,595,171	11,470,308	9,342,249	2,731,759	12,074,008	9,809,362	2,868,347	12,677,709	6.91%	-10.61%	2.37%	6.91%	-10.61%	2.37%	6.91%	-10.61%	2.37%
2024	9,081,815	2,704,322	11,786,137	9,559,805	2,846,655	12,406,460	10,037,796	2,988,987	13,026,783	2.33%	4.21%	2.75%	2.33%	4.21%	2.75%	2.33%	4.21%	2.75%
2025	8,527,341	3,473,982	12,001,323	8,976,148	3,656,823	12,632,972	9,424,955	3,839,665	13,264,620	-6.11%	28.46%	1.83%	-6.11%	28.46%	1.83%	-6.11%	28.46%	1.83%
2026	9,059,522	3,196,738	12,256,260	9,536,338	3,384,988	12,921,326	10,013,156	3,533,236	13,546,392	6.24%	-7.98%	2.12%	6.24%	-7.98%	2.12%	6.24%	-7.98%	2.12%
2027	9,231,445	3,275,198	12,506,643	9,717,311	3,447,576	13,164,887	10,203,177	3,619,955	13,823,131	1.90%	2.45%	2.04%	1.90%	2.45%	2.04%	1.90%	2.45%	2.04%
2028	9,754,058	3,028,483	12,782,541	10,267,430	3,187,877	13,455,307	10,780,801	3,347,271	14,128,072	5.66%	-7.53%	2.21%	5.66%	-7.53%	2.21%	5.66%	-7.53%	2.21%
2029	9,465,078	3,524,533	12,989,611	9,963,240	3,710,034	13,673,275	10,461,403	3,895,536	14,356,939	-2.96%	16.38%	1.62%	-2.96%	16.38%	1.62%	-2.96%	16.38%	1.62%
2030	10,027,496	3,195,001	13,222,497	10,555,259	3,363,159	13,918,418	11,083,022	3,531,317	14,614,338	5.94%	-9.35%	1.79%	5.94%	-9.35%	1.79%	5.94%	-9.35%	1.79%
2031	9,459,689	3,989,316	13,449,005	9,957,567	4,199,281	14,156,848	10,455,445	4,409,244	14,864,690	-5.66%	24.86%	1.71%	-5.66%	24.86%	1.71%	-5.66%	24.86%	1.71%
2032	10,216,984	3,669,881	13,886,865	10,719,340	3,799,874	14,519,214	11,173,609	3,989,872	15,163,482	6.87%	-9.51%	2.01%	6.87%	-9.51%	2.01%	6.87%	-9.51%	2.01%
2033	10,216,984	3,669,881	13,886,865	10,719,340	3,799,874	14,519,214	11,173,609	3,989,872	15,163,482	1.06%	1.29%	1.12%	1.06%	1.29%	1.12%	1.06%	1.29%	1.12%
2034	10,614,116	3,465,359	14,079,475	11,172,754	3,647,746	14,820,499	11,731,391	3,830,133	15,561,524	3.89%	-5.23%	1.48%	3.89%	-5.23%	1.48%	3.89%	-5.23%	1.48%
2035	10,111,866	3,975,059	14,086,925	10,654,596	4,184,273	14,838,869	11,397,326	4,399,486	15,790,812	-2.85%	14.71%	1.47%	-2.85%	14.71%	1.47%	-2.85%	14.71%	1.47%
2036	10,163,902	4,366,552	14,530,455	10,698,844	4,596,371	15,295,215	11,233,783	4,826,193	16,059,976	-1.43%	9.85%	-1.43%	9.85%	-1.43%	9.85%	-1.43%	9.85%	1.70%
2037	10,768,191	3,893,082	14,661,273	11,334,937	4,097,982	15,432,919	11,901,684	4,302,881	16,204,565	5.95%	-10.84%	0.90%	5.95%	-10.84%	0.90%	5.95%	-10.84%	0.90%
2038	10,901,127	3,936,901	14,838,028	11,474,870	4,144,106	15,618,976	12,048,614	4,351,311	16,399,925	1.23%	1.13%	1.23%	1.23%	1.13%	1.23%	1.23%	1.13%	1.23%
2039	11,031,243	3,967,808	14,999,052	11,611,835	4,176,640	15,788,475	12,192,427	4,385,472	16,577,899	1.19%	0.79%	1.09%	1.19%	0.79%	1.09%	1.19%	0.79%	1.09%
2040	11,361,432	3,856,802	15,218,235	11,959,402	4,059,792	16,019,194	12,557,372	4,262,782	16,820,154	2.99%	-2.80%	1.46%	2.99%	-2.80%	1.46%	2.99%	-2.80%	1.46%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	7,760	65,281	73,041	8,168	68,717	76,886	8,577	72,153	80,730	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	7,954	66,268	74,222	8,372	69,756	78,128	8,791	73,244	82,035	2.50%	1.51%	1.62%	2.50%	1.51%	1.62%	2.50%	1.51%
2023	7,110	62,279	75,389	7,484	71,873	79,357	7,858	75,466	83,325	-10.61%	3.03%	-1.57%	-10.61%	3.03%	-1.57%	-10.61%	3.03%
2024	7,409	61,866	69,275	7,799	65,122	72,921	8,189	68,378	76,567	4.21%	-9.39%	-8.11%	4.21%	-9.39%	-8.11%	4.21%	-9.39%
2025	6,918	60,721	70,238	7,309	63,916	73,935	7,620	67,412	77,632	-28.46%	-1.85%	1.39%	-28.46%	-1.85%	1.39%	-28.46%	-1.85%
2026	8,758	70,207	78,965	9,219	73,902	83,921	9,680	77,597	87,277	-7.98%	15.62%	-12.42%	-7.98%	15.62%	-12.42%	-7.98%	15.62%
2027	8,973	71,085	80,058	9,445	74,826	84,271	9,918	78,567	88,485	2.45%	1.25%	1.38%	2.45%	1.25%	1.38%	2.45%	1.25%
2028	8,297	73,002	81,300	8,734	76,845	85,579	9,171	80,687	89,857	-7.53%	2.70%	1.55%	-7.53%	2.70%	1.55%	-7.53%	2.70%
2029	9,656	72,682	82,338	10,164	76,507	86,672	10,673	80,333	91,006	16.38%	-0.44%	1.28%	16.38%	-0.44%	1.28%	16.38%	-0.44%
2030	8,753	66,158	74,911	9,214	69,640	78,854	9,675	73,822	82,796	-9.35%	-8.98%	-9.02%	-9.35%	-8.98%	-9.02%	-9.35%	-8.98%
2031	10,930	64,810	75,740	11,505	68,221	79,726	12,080	71,633	83,713	24.86%	-2.04%	1.11%	24.86%	-2.04%	1.11%	24.86%	-2.04%
2032	9,890	75,583	85,473	10,411	79,561	89,971	10,931	83,539	94,470	-9.51%	16.62%	12.85%	-9.51%	16.62%	12.85%	-9.51%	16.62%
2033	11,073	76,375	86,393	10,545	80,395	90,940	11,073	84,415	95,487	1.29%	1.05%	1.08%	1.29%	1.05%	1.08%	1.29%	1.05%
2034	9,494	77,788	87,282	9,994	81,882	91,875	10,494	85,976	96,469	-5.23%	1.85%	1.03%	-5.23%	1.85%	1.03%	-5.23%	1.85%
2035	10,891	77,245	88,135	11,464	81,310	92,774	12,037	85,376	97,413	14.71%	-0.70%	0.98%	14.71%	-0.70%	0.98%	14.71%	-0.70%
2036	11,963	67,895	79,859	12,593	71,469	84,062	13,222	75,042	88,265	9.85%	-12.10%	-9.39%	9.85%	-12.10%	-9.39%	9.85%	-12.10%
2037	10,666	79,267	89,933	11,227	83,439	94,666	11,789	87,611	99,400	-10.84%	16.75%	12.62%	-10.84%	16.75%	12.62%	-10.84%	16.75%
2038	10,786	79,899	90,685	11,354	84,104	95,458	11,921	88,309	100,231	1.13%	0.80%	0.84%	1.13%	0.80%	0.84%	1.13%	0.80%
2039	10,871	80,539	91,409	11,443	84,777	96,220	12,015	89,016	101,031	0.79%	0.80%	0.80%	0.79%	0.80%	0.80%	0.79%	0.80%
2040	10,567	81,747	92,314	11,123	86,050	97,172	11,679	90,352	102,031	-2.80%	1.50%	0.99%	-2.80%	1.50%	0.99%	-2.80%	1.50%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	3,149,219	7,793,703	10,942,922	3,314,967	8,203,897	11,518,865	3,480,716	8,614,092	12,094,808	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,178,476	8,026,160	11,204,636	3,345,764	8,448,590	11,794,354	3,513,052	8,871,019	12,384,071	0.93%	2.98%	2.39%	0.93%	2.98%	2.39%	0.93%	2.98%
2023	3,208,875	8,261,433	11,470,308	3,377,763	8,696,245	12,074,008	3,546,651	9,132,057	12,677,709	0.96%	2.93%	2.37%	0.96%	2.93%	2.37%	0.96%	2.93%
2024	3,255,100	8,531,037	11,786,137	3,426,421	8,980,039	12,406,460	3,597,742	9,429,641	13,026,783	1.44%	2.63%	2.75%	1.44%	2.63%	2.75%	1.44%	2.63%
2025	3,271,037	8,720,286	12,001,323	3,443,197	9,189,775	12,632,972	3,615,357	9,659,263	13,264,620	0.49%	2.30%	1.83%	0.49%	2.34%	1.83%	0.49%	2.34%
2026	3,300,166	8,956,093	12,256,260	3,473,859	9,427,467	12,921,326	3,647,552	9,898,840	13,546,392	0.89%	2.59%	2.12%	0.89%	2.59%	2.12%	0.89%	2.59%
2027	3,329,077	9,177,565	12,506,643	3,504,292	9,660,595	13,164,887	3,679,506	10,143,625	13,823,131	0.88%	2.47%	2.04%	0.88%	2.47%	2.04%	0.88%	2.47%
2028	3,368,516	9,414,025	12,782,541	3,545,807	9,909,500	13,455,307	3,723,097	10,404,975	14,128,072	1.18%	2.58%	2.21%	1.18%	2.58%	2.21%	1.18%	2.58%
2029	3,384,865	9,604,746	12,989,611	3,563,016	10,110,259	13,673,275	3,741,166	10,615,772	14,356,939	0.49%	2.03%	1.62%	0.49%	2.03%	1.62%	0.49%	2.03%
2030	3,411,616	9,810,881	13,222,497	3,591,175	10,327,243	13,918,418	3,770,733	10,843,605	14,614,338	0.79%	2.15%	1.79%	0.79%	2.15%	1.79%	0.79%	2.15%
2031	3,437,718	10,011,287	13,449,005	3,618,651	10,538,197	14,156,848	3,799,583	11,065,107	14,864,690	0.77%	2.04%	1.71%	0.77%	2.04%	1.71%	0.77%	2.04%
2032	3,478,557	10,240,783	13,719,340	3,661,639	10,779,772	14,441,411	3,844,721	11,318,761	15,163,482	1.19%	2.29%	2.01%	1.19%	2.29%	2.01%	1.19%	2.29%
2033	3,486,297	10,387,311	13,873,609	3,669,787	10,934,012	14,603,799	3,853,276	11,480,713	15,333,989	0.22%	1.23%	1.43%	0.22%	1.23%	1.43%	0.22%	1.23%
2034	3,509,899	10,569,576	14,079,474	3,694,630	11,125,869	14,820,499	3,879,362	11,682,162	15,561,524	0.68%	1.75%	1.48%	0.68%	1.75%	1.48%	0.68%	1.75%
2035	3,534,455	10,752,470	14,286,925	3,720,479	11,318,390	1											

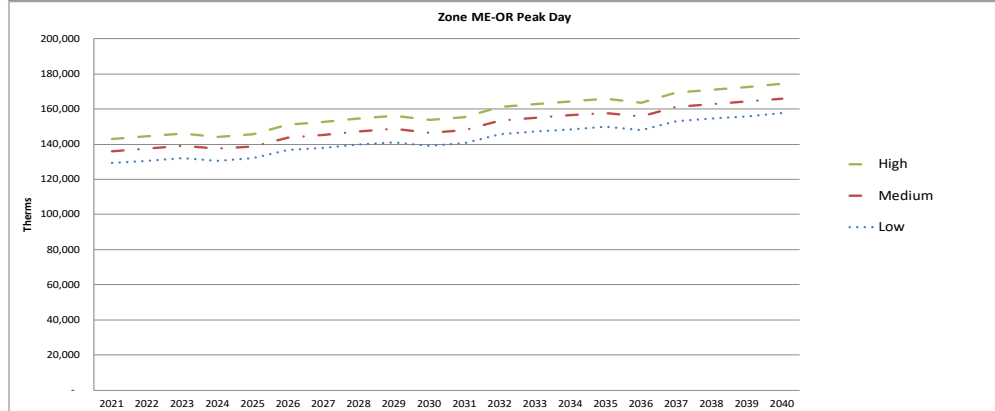
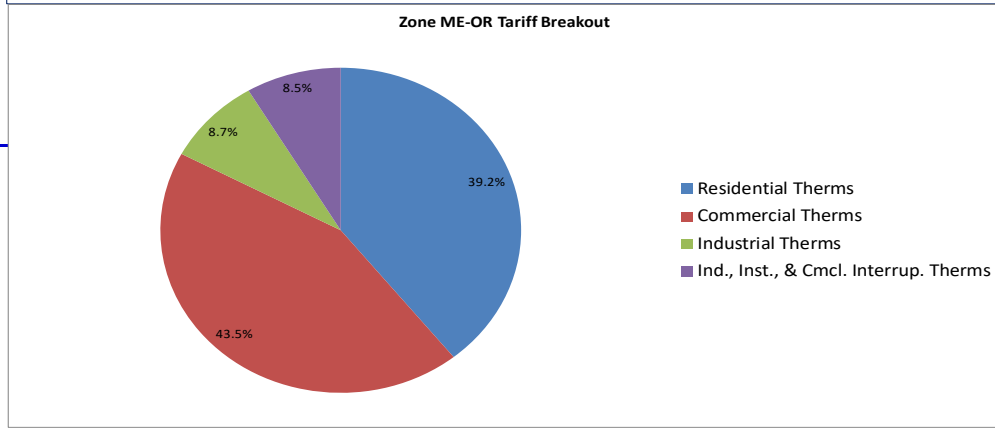
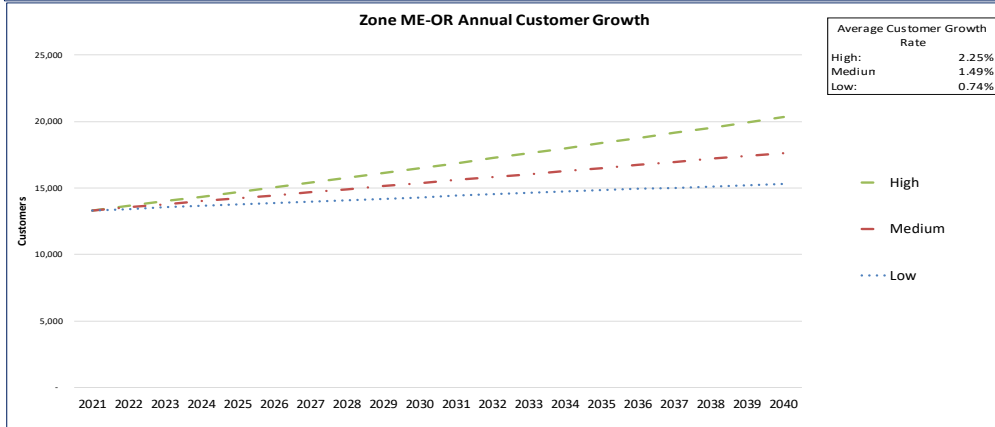
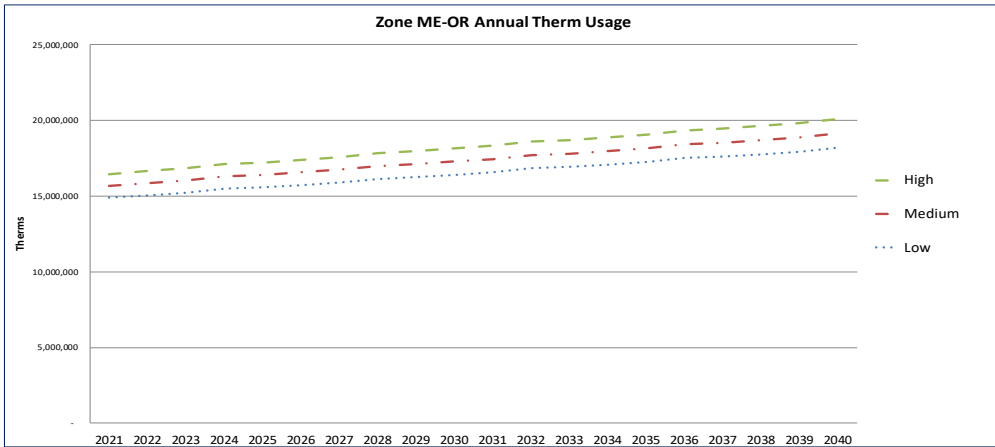


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone ME-OR																			
Annual Requirements (Therms)												Annual Change							
Low			Medium			High			Low			Medium			High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total		
2021	9,954,443	4,944,866	14,899,309	10,478,361	5,205,122	15,683,483	11,002,279	5,465,378	16,467,657	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	10,067,898	4,996,756	15,064,654	10,597,787	5,259,743	15,857,530	11,127,677	5,522,730	16,650,407	1.14%	1.05%	1.11%	1.14%	1.05%	1.11%	1.14%	1.05%		
2023	10,203,247	5,029,788	15,233,035	10,740,260	5,294,514	16,034,774	11,277,273	5,599,240	16,836,513	1.34%	1.06%	1.12%	1.34%	1.06%	1.12%	1.34%	1.06%		
2024	10,399,047	5,078,715	15,477,761	10,946,364	5,346,016	16,292,381	11,493,683	5,613,317	17,107,000	1.92%	0.97%	1.61%	1.92%	0.97%	1.61%	1.92%	0.97%		
2025	10,447,353	5,126,431	15,573,784	10,997,213	5,396,244	16,393,457	11,547,074	5,666,055	17,213,130	0.46%	0.94%	0.62%	0.46%	0.94%	0.62%	0.46%	0.94%		
2026	10,553,878	5,178,295	15,742,173	11,119,872	5,450,836	16,570,708	11,675,865	5,723,378	17,399,244	1.12%	1.01%	1.08%	1.12%	1.01%	1.08%	1.12%	1.01%		
2027	10,677,837	5,232,852	15,910,689	11,239,828	5,508,265	16,748,093	11,801,820	5,783,678	17,585,498	1.08%	1.05%	1.07%	1.08%	1.05%	1.07%	1.08%	1.05%		
2028	10,880,771	5,268,080	16,148,851	11,453,443	5,545,347	16,998,791	12,026,116	5,822,615	17,848,730	1.90%	0.67%	1.50%	1.90%	0.67%	1.50%	1.90%	0.67%		
2029	10,905,321	5,343,329	16,248,650	11,479,286	5,624,557	17,103,842	12,053,250	5,905,785	17,959,035	0.23%	1.43%	0.62%	0.23%	1.43%	0.62%	0.23%	1.43%		
2030	11,054,800	5,362,120	16,416,921	11,636,632	5,644,337	17,280,969	12,218,463	5,926,554	18,145,018	1.37%	0.35%	1.04%	1.37%	0.35%	1.04%	1.37%	0.35%		
2031	11,171,739	5,413,384	16,585,123	11,759,725	5,698,299	17,458,024	12,347,711	5,983,215	18,330,926	1.66%	0.96%	1.02%	1.66%	0.96%	1.02%	1.66%	0.96%		
2032	11,361,075	5,472,304	16,833,379	11,959,026	5,760,320	17,719,346	12,556,977	6,048,336	18,605,314	1.69%	1.09%	1.50%	1.69%	1.09%	1.50%	1.69%	1.09%		
2033	11,395,601	5,523,900	16,919,500	11,995,368	5,814,632	17,810,000	12,595,137	6,105,363	18,700,500	0.30%	0.94%	0.51%	0.30%	0.94%	0.51%	0.30%	0.94%		
2034	11,532,716	5,555,187	17,087,904	12,139,700	5,847,566	17,987,267	12,746,685	6,139,946	18,886,630	1.20%	0.57%	1.00%	1.20%	0.57%	1.00%	1.20%	0.57%		
2035	11,627,695	5,632,341	17,260,036	12,239,678	5,928,780	18,168,459	12,851,662	6,225,220	19,076,882	0.82%	1.39%	1.01%	0.82%	1.39%	1.01%	0.82%	1.39%		
2036	11,859,037	5,652,067	17,511,104	12,483,197	5,949,545	18,432,741	13,107,356	6,247,022	19,354,378	1.99%	1.45%	1.99%	1.99%	1.45%	1.99%	1.99%	1.45%		
2037	11,893,248	5,704,180	17,597,429	12,519,209	6,004,401	18,523,609	13,145,170	6,304,620	19,449,790	0.29%	0.92%	0.49%	0.29%	0.92%	0.49%	0.29%	0.92%		
2038	12,005,321	5,759,992	17,765,313	12,637,863	6,063,149	18,701,012	13,269,756	6,366,307	19,636,063	0.95%	0.98%	0.96%	0.95%	0.98%	0.96%	0.95%	0.98%		
2039	12,116,625	5,813,999	17,930,624	12,754,342	6,119,999	18,874,341	13,392,058	6,426,000	19,818,058	0.92%	0.94%	0.93%	0.92%	0.94%	0.93%	0.92%	0.94%		
2040	12,333,008	5,852,419	18,185,428	12,982,113	6,160,442	19,142,555	13,631,219	6,468,464	20,099,683	1.79%	0.66%	1.42%	1.79%	0.66%	1.42%	1.79%	0.66%		

Peak Day - BaseLoad												Annual Change							
Low			Medium			High			Low			Medium			High				
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total		
2021	13,548	115,703	129,251	14,261	121,793	136,054	14,974	127,883	142,856	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	13,690	116,992	130,682	14,410	123,149	137,560	15,131	129,307	144,438	1.05%	1.11%	1.11%	1.05%	1.11%	1.11%	1.05%	1.11%		
2023	13,780	118,331	132,111	14,506	124,558	139,064	15,231	130,786	146,017	0.66%	1.14%	1.09%	0.66%	1.14%	1.09%	0.66%	1.14%		
2024	13,914	116,584	130,499	14,647	122,720	137,367	15,379	128,856	144,235	0.97%	-1.48%	-1.22%	0.97%	-1.48%	-1.22%	0.97%	-1.48%		
2025	14,045	117,847	131,898	14,784	124,045	138,829	15,523	130,247	145,771	0.94%	1.09%	1.04%	0.94%	1.09%	1.04%	0.94%	1.09%		
2026	14,187	122,450	136,637	14,934	128,895	143,829	15,680	135,340	150,220	1.01%	3.91%	3.60%	1.01%	3.91%	3.60%	1.01%	3.91%		
2027	14,337	123,727	138,063	15,091	130,239	145,330	15,846	136,751	152,596	1.05%	1.04%	1.04%	1.05%	1.04%	1.04%	1.05%	1.04%		
2028	14,433	125,308	139,741	15,193	131,903	147,096	15,952	138,499	154,451	0.67%	1.28%	1.22%	0.67%	1.28%	1.22%	0.67%	1.28%		
2029	14,639	126,529	141,168	15,410	133,188	148,598	16,180	139,847	156,028	1.43%	0.97%	1.02%	1.43%	0.97%	1.02%	1.43%	0.97%		
2030	14,691	124,379	139,069	15,464	130,925	146,389	16,237	137,411	153,708	0.35%	-1.70%	-1.49%	0.35%	-1.70%	-1.49%	0.35%	-1.70%		
2031	14,831	125,621	140,452	15,612	132,233	147,844	16,392	138,844	155,237	0.96%	1.00%	0.99%	0.96%	1.00%	0.99%	0.96%	1.00%		
2032	14,993	130,710	145,703	15,782	137,590	153,371	16,571	144,469	161,040	1.09%	4.05%	3.74%	1.09%	4.05%	3.74%	1.09%	4.05%		
2033	15,134	131,992	147,126	15,930	138,939	154,870	16,727	145,886	162,613	0.94%	0.98%	0.98%	0.94%	0.98%	0.98%	0.94%	0.98%		
2034	15,220	133,328	148,548	16,021	140,346	156,367	16,822	147,363	164,185	0.57%	1.01%	0.97%	0.57%	1.01%	0.97%	0.57%	0.97%		
2035	15,331	134,537	149,968	16,243	141,618	157,861	17,055	148,699	165,754	1.39%	0.91%	1.06%	1.39%	0.91%	1.06%	1.39%	0.91%		
2036	15,485	132,413	147,898	16,300	139,382	155,683	17,115	146,352	163,467	0.35%	-1.58%	-1.38%	0.35%	-1.58%	-1.38%	0.35%	-1.58%		
2037	15,628	137,457	153,085	16,450	144,692	161,142	17,273	151,926	169,199	0.92%	3.81%	3.51%	0.92%	3.81%	3.51%	0.92%	3.81%		
2038	15,781	138,723	154,504	16,611	146,024	162,635	17,442	153,325	170,767	0.98%	0.92%	0.93%	0.98%	0.92%	0.93%	0.98%	0.92%		
2039	15,929	139,992	155,921	16,767	147,360	164,127	17,605	154,728	172,333	0.94%	0.91%	0.92%	0.94%	0.91%	0.92%	0.94%	0.91%		
2040	16,034	141,592	157,626	16,878	149,044	165,922	17,722	156,496	174,218	0.66%	1.14%	1.09%	0.66%	1.14%	1.09%	0.66%	1.14%		

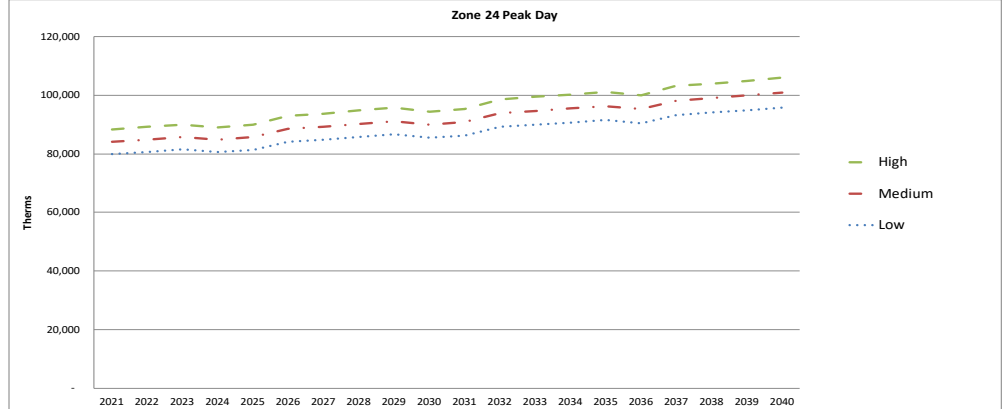
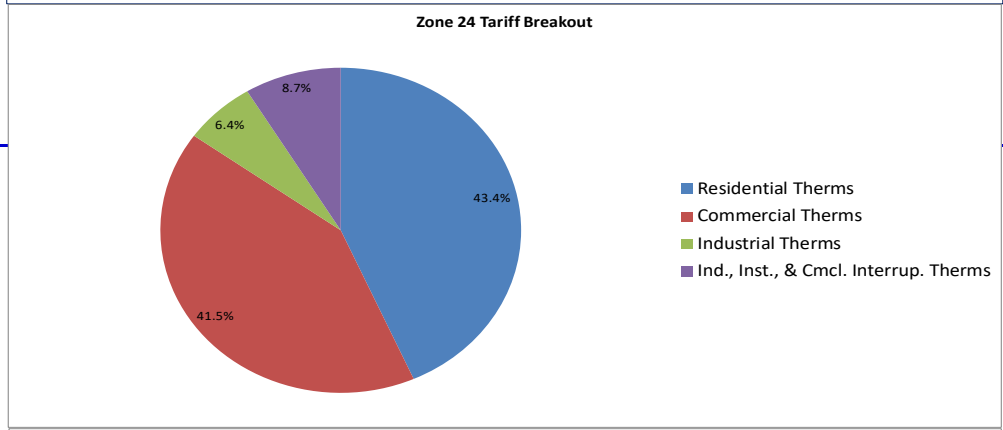
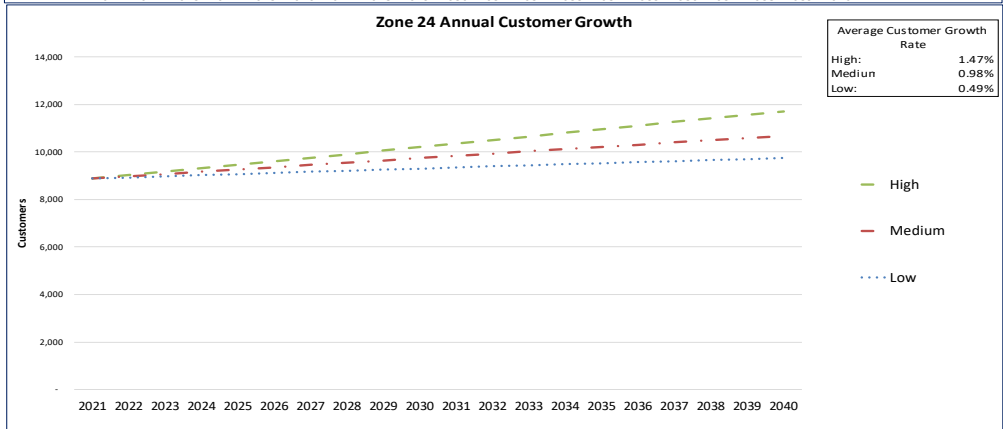
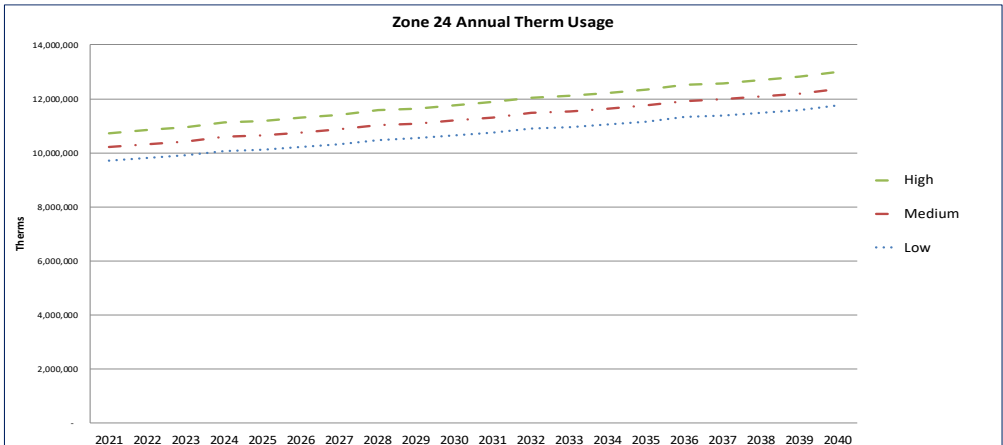
Therms Usage by Class												Annual Change							
Low			Medium			High			Low			Medium			High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total		
2021	5,849,793	9,049,516	14,899,309	6,157,677	9,525,806	15,683,483	6,465,561	10,002,997	16,467,657	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2022	5,936,207	9,128,447	15,064,654	6,248,639	9,608,892	15,857,530	6,561,071	10,089,336	16,650,407	1.48%	0.87%	1.11%	1.48%	0.87%	1.11%	1.48%	0.87%		
2023	6,023,912	9,209,123	15,233,035	6,340,960	9,693,814	16,034,774	6,658,008	10,178,505	16,836,513	1.48%	0.88%	1.12%	1.48%	0.88%	1.12%	1.48%	0.88%		
2024	6,144,543	9,333,218	15,477,761	6,467,940	9,824,440	16,292,381	6,791,338	10,315,562	17,107,000	2.00%	1.51%	1.61%	2.00%	1.51%	1.61%	2.00%	1.51%		
2025	6,201,171	9,372,613	15,573,784	6,527,549	9,865,908	16,393,457	6,853,926	10,359,204	17,213,130	0.92%	0.42%	0.62%	0.92%	0.42%	0.62%	0.92%	0.42%		
2026	6,288,896	9,452,277	15,742,173	6,619,890	9,950,818	16,570,708	6,950,885	10,448,359	17,399,244	1.41%	0.86%	1.41%	1.41%	0.86%	1.41%	1.41%	0.86%		
2027	6,376,691	9,533,998	15,910,689	6,712,306	10,035,787	16,748,093	7,047,922	10,537,576	17,585,498	1.40%	0.85%	1.07%	1.40%	0.85%	1.07%	1.40%	0.85%		
2028	6,494,868	9,653,983	16,148,851	6,836,703	10,162,087	16,998,791	7,178,538	10,670,192	17,848,730	1.85%	1.26%	1.50%	1.85%	1.26%	1.50%	1.85%	1.26%		
2029	6,552,748	9,695,902	16,248,650	6,897,630	10,206,212	17,103,842	7,242,512	10,716,523	17,959,035	0.89%	0.43%	0.62%	0.89%	0.43%	0.62%	0.89%	0.43%		
2030	6,640,415	9,776,505	16,416,921	6,989,911	10,291,058	17,280,969	7,339,406	10,805,611	18,145,018	1.34%	0.83%	1.04%	1.34%	0.83%	1.04%	1.34%	0.83%		
2031	6,728,055	9,857,068	16,585,123	7,082,164	10,375,861	17,458,024	7,436,272	10,894,654	18,330,926	1.32%	0.82%	1.02%	1.32%	0.82%	1.02%	1.32%	0.82%		
2032	6,851,026	9,982,353	16,833,379	7,211,606	10,507,740	17,719,346	7,572,187	11,033,127	18,605,314	1.83%	1.27%	1.50%	1.83%	1.27%	1.50%	1.83%	1.27%		
2033	6,902,599	10,016,901	16,919,500	7,265,893	10,544,107	17,810,000	7,629,188	11,071,312	18,700,500	0.75%	0.35%	0.51%	0.75%	0.35%	0.51%	0.75%	0.35%		
2034	6,990,308	10,097,595	17,087,904	7,358,219	10,629,048	17,987,267	7,726,130	11,160,500	18,886,630	1.27%	0.81%	1.00%	1.27%	0.81%	1.00%	1.27%	0.81%		
2035	7,079,644	10,180,392	17,260,036	7,452,257	10,716,202	18,168,459	7,824,870	11,252,012	19,076,882	1.28%									



Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

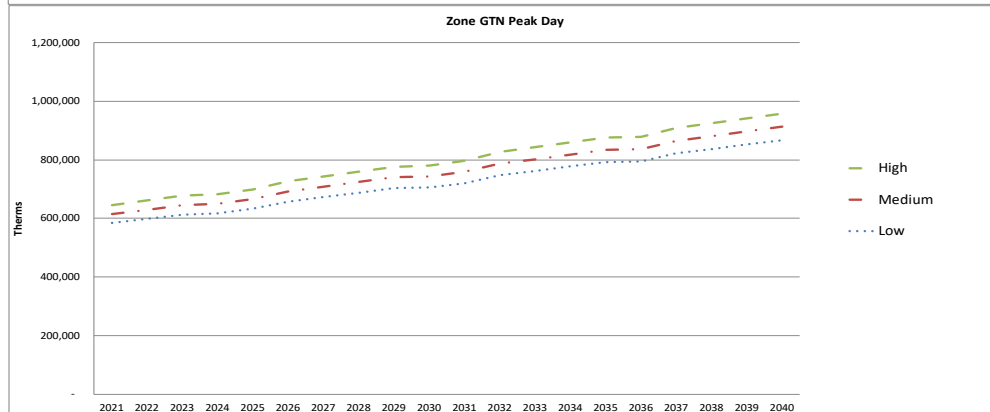
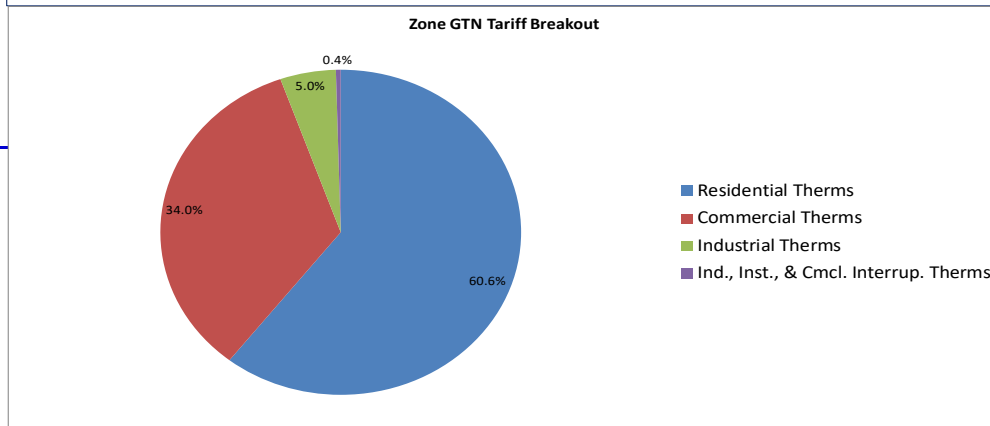
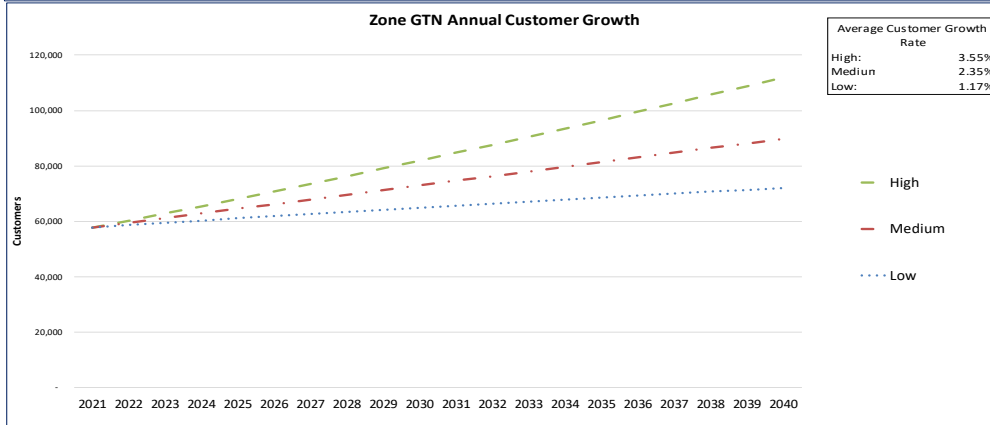
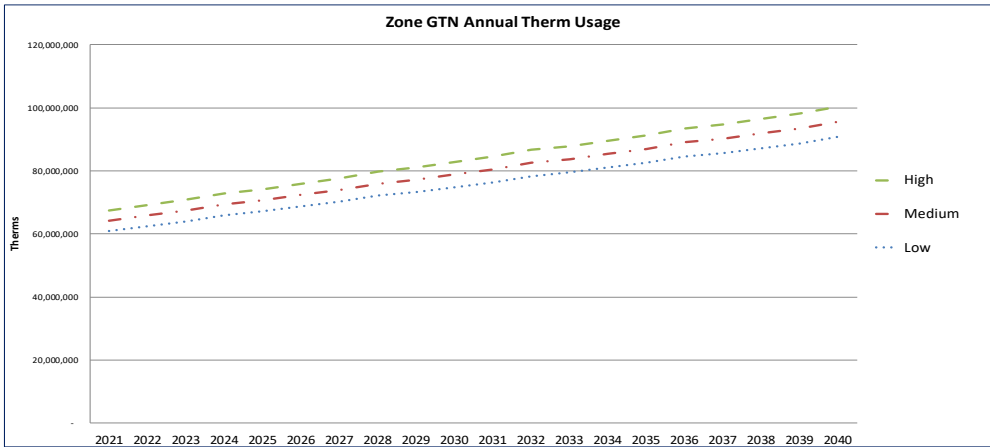
Zone 24																											
Annual Requirements (Therms)														Annual Change													
Low			Medium			High			Low			Medium			High			Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	7,637,971	2,067,368	9,705,339	8,039,969	2,176,177	10,216,146	8,441,968	2,284,986	10,726,954	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	7,717,359	2,089,930	9,807,289	8,123,336	2,199,926	10,323,262	8,529,713	2,309,922	10,839,635	1.04%	1.09%	1.05%	1.04%	1.09%	1.05%	1.04%	1.09%	1.05%	1.04%	1.09%	1.05%	1.04%	1.09%	1.05%	1.04%	1.09%	1.05%
2023	7,794,141	2,116,498	9,910,640	8,204,360	2,227,892	10,432,252	8,614,578	2,339,287	10,953,865	0.99%	1.27%	1.05%	0.99%	1.27%	1.05%	0.99%	1.27%	1.05%	0.99%	1.27%	1.05%	0.99%	1.27%	1.05%	0.99%	1.27%	1.05%
2024	7,918,060	2,147,420	10,065,480	8,334,800	2,260,442	10,595,242	8,751,540	2,374,464	11,125,004	1.59%	1.46%	1.56%	1.59%	1.46%	1.56%	1.59%	1.46%	1.56%	1.59%	1.46%	1.56%	1.59%	1.46%	1.56%	1.59%	1.46%	1.56%
2025	7,957,836	2,161,829	10,119,665	8,376,669	2,275,609	10,652,279	8,795,503	2,389,390	11,184,893	0.50%	0.79%	0.50%	0.50%	0.79%	0.50%	0.50%	0.79%	0.50%	0.50%	0.79%	0.50%	0.50%	0.79%	0.50%	0.50%	0.79%	0.50%
2026	8,041,959	2,181,533	10,223,492	8,465,220	2,296,351	10,761,571	8,888,481	2,411,169	11,299,650	1.06%	0.91%	1.03%	1.06%	0.91%	1.03%	1.06%	0.91%	1.03%	1.06%	0.91%	1.03%	1.06%	0.91%	1.03%	1.06%	0.91%	1.03%
2027	8,124,081	2,203,493	10,327,575	8,551,665	2,319,466	10,871,131	8,979,248	2,435,440	11,414,687	1.02%	1.01%	1.02%	1.02%	1.01%	1.02%	1.02%	1.01%	1.02%	1.02%	1.01%	1.02%	1.02%	1.01%	1.02%	1.02%	1.01%	1.02%
2028	8,255,855	2,223,789	10,479,643	8,690,373	2,340,830	11,031,203	9,124,892	2,457,872	11,582,764	1.62%	0.92%	1.47%	1.62%	0.92%	1.47%	1.62%	0.92%	1.47%	1.62%	0.92%	1.47%	1.62%	0.92%	1.47%	1.62%	0.92%	1.47%
2029	8,277,812	2,258,947	10,536,759	8,713,486	2,377,839	11,091,325	9,149,160	2,496,731	11,645,891	0.27%	1.58%	0.55%	0.27%	1.58%	0.55%	0.27%	1.58%	0.55%	0.27%	1.58%	0.55%	0.27%	1.58%	0.55%	0.27%	1.58%	0.55%
2030	8,353,194	2,288,159	10,641,353	8,792,836	2,408,588	11,201,424	9,232,477	2,529,018	11,761,495	0.91%	1.29%	0.99%	0.91%	1.29%	0.99%	0.91%	1.29%	0.99%	0.91%	1.29%	0.99%	0.91%	1.29%	0.99%	0.91%	1.29%	0.99%
2031	8,445,264	2,300,381	10,745,645	8,889,752	2,421,453	11,311,205	9,334,239	2,542,526	11,876,765	1.10%	0.53%	0.98%	1.10%	0.53%	0.98%	1.10%	0.53%	0.98%	1.10%	0.53%	0.98%	1.10%	0.53%	0.98%	1.10%	0.53%	0.98%
2032	8,589,092	2,315,271	10,904,363	9,041,149	2,437,128	11,478,277	9,493,208	2,558,984	12,052,191	1.70%	0.65%	1.48%	1.70%	0.65%	1.48%	1.70%	0.65%	1.48%	1.70%	0.65%	1.48%	1.70%	0.65%	1.48%	1.70%	0.65%	1.48%
2033	8,615,452	2,339,180	10,954,632	9,068,897	2,462,295	11,531,192	9,522,342	2,585,409	12,107,751	0.31%	1.03%	0.46%	0.31%	1.03%	0.46%	0.31%	1.03%	0.46%	0.31%	1.03%	0.46%	0.31%	1.03%	0.46%	0.31%	1.03%	0.46%
2034	8,691,543	2,368,449	11,059,992	9,148,993	2,493,104	11,642,096	9,606,442	2,617,759	12,224,201	0.88%	1.25%	0.96%	0.88%	1.25%	0.96%	0.88%	1.25%	0.96%	0.88%	1.25%	0.96%	0.88%	1.25%	0.96%	0.88%	1.25%	0.96%
2035	8,761,735	2,405,950	11,167,685	9,222,879	2,522,579	11,755,458	9,684,023	2,659,207	12,343,231	0.81%	1.58%	0.97%	0.81%	1.58%	0.97%	0.81%	1.58%	0.97%	0.81%	1.58%	0.97%	0.81%	1.58%	0.97%	0.81%	1.58%	0.97%
2036	8,909,860	2,419,428	11,329,288	9,378,800	2,546,765	11,925,566	9,847,741	2,674,104	12,521,845	1.69%	0.26%	1.45%	1.69%	0.26%	1.45%	1.69%	0.26%	1.45%	1.69%	0.26%	1.45%	1.69%	0.26%	1.45%	1.69%	0.26%	1.45%
2037	8,938,339	2,441,986	11,380,326	9,408,778	2,570,512	11,979,290	9,879,218	2,699,038	12,578,255	0.32%	0.93%	0.45%	0.32%	0.93%	0.45%	0.32%	0.93%	0.45%	0.32%	0.93%	0.45%	0.32%	0.93%	0.45%	0.32%	0.93%	0.45%
2038	9,021,530	2,465,146	11,486,676	9,496,348	2,594,890	12,091,238	9,971,165	2,724,534	12,695,799	0.93%	0.95%	0.93%	0.93%	0.95%	0.93%	0.93%	0.95%	0.93%	0.93%	0.95%	0.93%	0.93%	0.95%	0.93%	0.93%	0.95%	0.93%
2039	9,100,975	2,490,222	11,591,197	9,579,973	2,621,286	12,201,260	10,058,972	2,752,350	12,811,323	0.88%	1.02%	0.91%	0.88%	1.02%	0.91%	0.88%	1.02%	0.91%	0.88%	1.02%	0.91%	0.88%	1.02%	0.91%	0.88%	1.02%	0.91%
2040	9,228,721	2,526,688	11,755,408	9,714,443	2,659,671	12,374,114	10,200,165	2,792,655	12,992,820	1.40%	1.46%	1.42%	1.40%	1.46%	1.42%	1.40%	1.46%	1.42%	1.40%	1.46%	1.42%	1.40%	1.46%	1.42%	1.40%	1.46%	1.42%

Peak Day - BaseLoad														Annual Change													
Low			Medium			High			Low			Medium			High			Low			Medium			High			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	5,664	74,201	79,865	5,962	78,106	84,068	6,260	82,012	88,272	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	5,726	74,943	80,669	6,027	78,887	84,914	6,329	82,831	89,160	1.09%	1.00%	1.01%	1.09%	1.00%	1.01%	1.09%	1.00%	1.01%	1.09%	1.00%	1.01%	1.09%	1.00%	1.01%	1.09%		
2023	5,799	75,672	81,471	6,104	79,655	85,759	6,409	83,638	90,047	1.27%	0.97%	0.99%	1.27%	0.97%	0.99%	1.27%	0.97%	0.99%	1.27%	0.97%	0.99%	1.27%	0.97%	0.99%	1.27%		
2024	5,883	74,704	80,647	6,193	78,699	84,892	6,503	82,634	89,136	1.46%	-1.20%	-1.01%	1.46%	-1.20%	-1.01%	1.46%	-1.20%	-1.01%	1.46%	-1.20%	-1.01%	1.46%	-1.20%	-1.01%	1.46%		
2025	5,923	75,438	81,430	6,235	79,481	85,716	6,546	83,455	90,082	0.67%	0.99%	0.50%	0.67%	0.99%	0.50%	0.67%	0.99%	0.50%	0.67%	0.99%	0.50%	0.67%	0.99%	0.50%	0.67%		
2026	5,977	76,047	84,024	6,291	82,155	88,446	6,606	86,263	92,869	0.91%	3.26%	3.19%	0.91%	3.26%	3.19%	0.91%	3.26%	3.19%	0.91%	3.26%	3.19%	0.91%	3.26%	3.19%	0.91%	3.26%	
2027	6,037	78,789	84,826	6,355	82,936	89,291	6,672	87,083	93,755	1.01%	0.95%	0.95%	1.01%	0.95%	0.95%	1.01%	0.95%	0.95%	1.01%	0.95%	0.95%	1.01%	0.95%	0.95%	1.01%		
2028	6,093	79,686	85,779	6,413	83,880	90,294	6,734	88,074	94,808	0.92%	1.14%	1.12%	0.92%	1.14%	1.12%	0.92%	1.14%	1.12%	0.92%	1.14%	1.12%	0.92%	1.14%	1.12%	0.92%		
2029	6,189	80,393	86,582	6,515	84,624	91,138	6,840	88,855	95,695	1.58%	0.89%	0.94%	1.58%	0.89%	0.94%	1.58%	0.89%	0.94%	1.58%	0.89%	0.94%	1.58%	0.89%	0.94%	1.58%		
2030	6,269	79,228	85,496	6,599	83,997	89,996	6,929	87,567	94,496	1.29%	-1.45%	-1.25%	1.29%	-1.45%	-1.25%	1.29%	-1.45%	-1.25%	1.29%	-1.45%	-1.25%	1.29%	-1.45%	-1.25%	1.29%		
2031	6,302	79,975	86,277	6,634	84,184	90,818	6,966	88,993	95,359	0.53%	0.94%	0.91%	0.53%	0.94%	0.91%	0.53%	0.94%	0.91%	0.53%	0.94%	0.91%	0.53%	0.94%	0.91%	0.53%		
2032	6,343	82,797	89,140	6,677	87,155	93,832	7,011	91,332	98,523	0.65%	3.53%	3.32%	0.65%	3.53%	3.32%	0.65%	3.53%	3.32%	0.65%	3.53%	3.32%	0.65%	3.53%	3.32%	0.65%		
2033	6,409	83,534	89,942	6,746	87,930	94,676	7,083	92,327	99,410	1.03%	0.89%	0.90%	1.03%	0.89%	0.90%	1.03%	0.89%	0.90%	1.03%	0.89%	0.90%	1.03%	0.89%	0.90%	1.03%		
2034	6,489	84,255	90,744	6,830	88,689	95,520	7,172	93,124	100,296	1.25%	0.86%	0.89%	1.25%	0.86%	0.89%	1.25%	0.86%	0.89%	1.25%	0.86%	0.89%	1.25%	0.86%	0.89%	1.25%		
2035	6,592	84,953	91,544	6,939	89,424	96,363	7,285	93,895	101,181	1.58%	0.83%	0.88%	1.58%	0.83%	0.88%	1.58%	0.83%	0.88%	1.58%	0.83%	0.88%	1.58%	0.83%	0.88%	1.58%		
2036	6,629	83,873	90,501	6,977	88,287	95,264	7,326	92,701	100,028	0.56%	-1.27%	-1.14%	0.56%	-1.27%	-1.14%	0.56%	-1.27%	-1.14%	0.56%	-1.27%	-1.14%	0.56%	-1.27%	-1.14%	0.56%		
2037	6,690	86,617	93,307	7,042	91,175	98,218	7,395	95,734	103,129	0.93%	3.27%	3.10%	0.93%	3.27%	3.10%	0.93%	3.27%	3.10%									



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Zone GTN Annual Requirements (Therms) Annual Change Peak Day - Baseload Annual Change Therms Usage by Class Annual Change Customer Count Forecast Annual Change

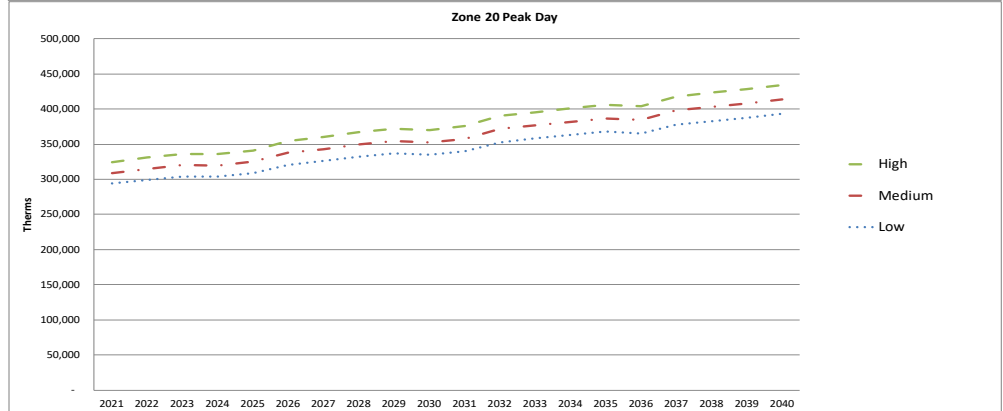
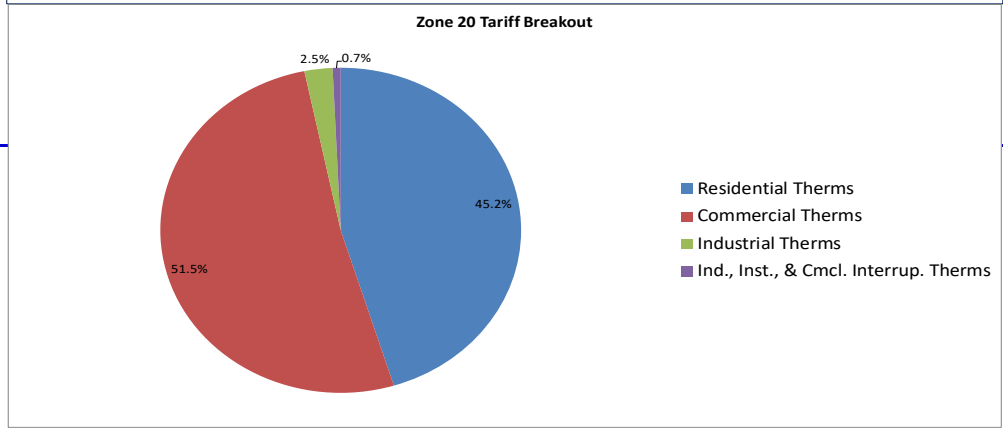
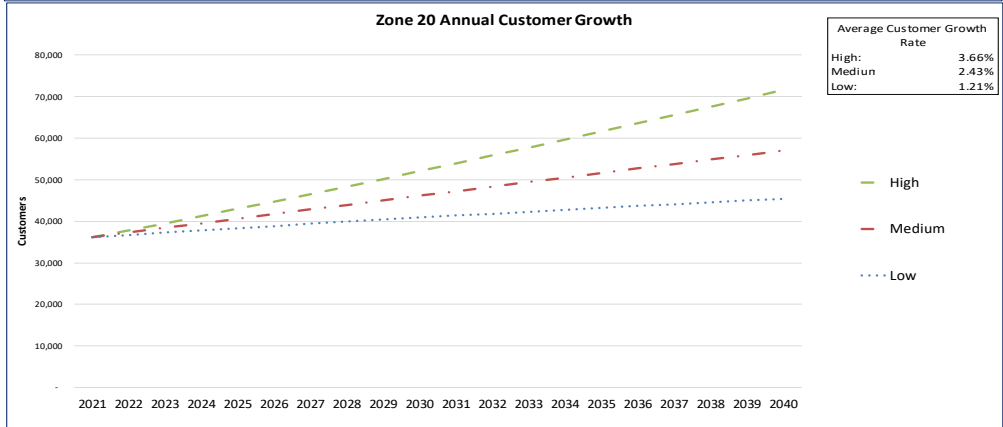
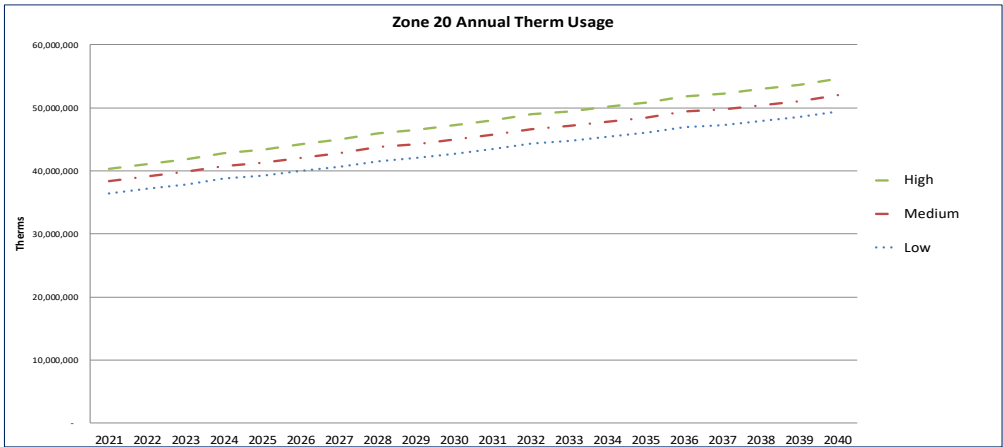


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone 20																	
Annual Requirements (Therms)																	
Low						Medium						High					
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	24,857,747	11,603,924	36,461,671	26,166,049	12,214,658	38,380,706	27,474,351	12,825,391	40,299,742	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	25,405,189	11,791,243	37,196,432	26,742,305	12,411,834	39,154,139	28,079,421	13,032,425	41,111,846	2.20%	1.61%	2.02%	2.20%	1.61%	2.02%	2.20%	1.61%
2023	26,080,075	11,807,168	37,887,243	27,452,712	12,428,597	39,881,309	28,825,348	13,050,027	41,875,374	2.66%	0.14%	1.86%	2.66%	0.14%	1.86%	2.66%	0.14%
2024	26,769,566	12,004,008	38,773,574	28,178,489	12,635,799	40,814,288	29,587,416	13,267,587	42,855,003	2.64%	1.67%	2.34%	2.64%	1.67%	2.34%	2.64%	1.67%
2025	26,839,656	12,443,308	39,282,964	28,252,270	13,099,271	41,351,541	29,664,884	13,754,235	43,419,119	0.26%	3.67%	1.32%	0.26%	3.67%	1.32%	0.26%	3.67%
2026	27,345,953	12,645,112	39,991,065	28,785,214	13,310,644	42,095,858	30,224,471	13,976,180	44,200,651	1.89%	1.61%	1.80%	1.89%	1.61%	1.80%	1.89%	1.61%
2027	27,852,057	12,836,524	40,688,581	29,317,955	13,512,130	42,830,085	30,783,851	14,187,739	44,971,590	1.85%	1.51%	1.74%	1.85%	1.51%	1.74%	1.85%	1.51%
2028	28,718,168	12,848,698	41,566,866	30,229,651	13,524,945	43,754,597	31,741,133	14,201,193	45,942,326	3.11%	0.09%	2.16%	3.11%	0.09%	2.16%	3.11%	0.09%
2029	28,903,602	13,164,699	42,068,301	30,424,845	13,857,861	44,282,707	31,946,088	14,550,753	46,496,842	0.65%	2.46%	1.21%	0.65%	2.46%	1.21%	0.65%	2.46%
2030	29,586,132	13,171,086	42,757,219	31,143,295	13,864,303	45,007,598	32,700,463	14,557,516	47,257,979	2.36%	0.05%	1.64%	2.36%	0.05%	1.64%	2.36%	0.05%
2031	29,785,175	13,652,728	43,437,903	31,352,817	14,371,292	45,724,109	32,920,455	15,089,860	48,010,315	0.67%	3.66%	1.59%	0.67%	3.66%	1.59%	0.67%	3.66%
2032	30,445,458	13,870,275	44,315,733	32,047,849	14,600,291	46,648,140	33,650,241	15,330,306	48,980,547	2.22%	1.59%	2.02%	2.22%	1.59%	2.02%	2.22%	1.59%
2033	30,728,002	14,026,465	44,754,467	32,345,265	14,764,700	47,109,965	33,962,530	15,502,933	49,465,463	0.93%	1.13%	0.99%	0.93%	1.13%	0.99%	0.93%	1.13%
2034	31,410,810	13,988,484	45,399,294	33,064,009	14,724,722	47,788,731	34,717,212	15,460,956	50,178,167	2.22%	-0.77%	1.44%	2.22%	-0.77%	1.44%	2.22%	-0.77%
2035	31,731,972	14,314,461	46,046,433	33,402,073	15,067,855	48,469,928	35,072,182	15,821,243	50,893,426	1.02%	3.33%	1.43%	1.02%	3.33%	1.43%	1.02%	3.33%
2036	32,272,884	14,639,636	46,912,520	33,971,455	15,410,144	49,381,598	35,670,031	16,180,648	51,856,679	1.70%	2.27%	1.88%	1.70%	2.27%	1.88%	1.70%	2.27%
2037	32,495,964	14,815,555	47,311,519	34,206,279	15,595,320	49,801,598	35,916,592	16,375,086	52,291,678	0.69%	1.20%	0.85%	0.69%	1.20%	0.85%	0.69%	1.20%
2038	32,951,884	14,984,234	47,936,118	34,686,193	15,772,879	50,459,072	36,420,504	16,561,521	52,982,025	1.40%	1.14%	1.32%	1.40%	1.14%	1.32%	1.40%	1.14%
2039	33,410,903	15,134,281	48,545,185	35,169,373	15,930,821	51,100,194	36,927,841	16,727,364	53,655,205	1.39%	1.00%	1.27%	1.39%	1.00%	1.27%	1.39%	1.00%
2040	34,339,285	15,061,458	49,400,743	36,146,616	15,854,167	52,000,783	37,953,948	16,646,875	54,600,823	2.78%	-0.48%	1.76%	2.78%	-0.48%	1.76%	2.78%	-0.48%

Peak Day - BaseLoad																	
Low						Medium						High					
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	31,792	261,892	293,683	33,465	275,675	309,140	35,138	289,459	324,597	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	32,305	266,880	299,185	34,005	280,926	314,931	35,705	294,973	330,678	1.61%	1.90%	1.87%	1.61%	1.90%	1.87%	1.61%	1.90%
2023	32,348	271,981	304,330	34,051	286,296	320,347	35,753	300,611	336,365	0.14%	1.91%	1.72%	0.14%	1.91%	1.72%	0.14%	1.91%
2024	32,888	270,757	303,644	34,619	285,007	319,626	36,350	299,257	335,607	1.67%	-0.45%	-0.23%	1.67%	-0.45%	-0.23%	1.67%	-0.45%
2025	34,094	309,345	348,439	35,898	289,105	324,993	37,683	302,560	341,243	3.67%	1.44%	1.68%	3.67%	1.44%	1.68%	3.67%	1.44%
2026	34,644	286,001	320,645	36,468	301,054	337,521	38,291	316,106	354,397	1.61%	4.13%	3.85%	1.61%	4.13%	3.85%	1.61%	4.13%
2027	35,169	290,695	325,864	37,020	305,995	343,015	38,871	321,295	360,166	1.51%	1.64%	1.63%	1.51%	1.64%	1.63%	1.51%	1.64%
2028	35,202	296,536	331,738	37,055	312,143	349,198	38,907	327,750	366,658	0.09%	2.01%	1.80%	0.09%	2.01%	1.80%	0.09%	2.01%
2029	36,068	300,843	336,911	37,967	316,676	354,643	39,865	332,510	372,375	2.46%	1.45%	1.56%	2.46%	1.45%	1.56%	2.46%	1.45%
2030	36,085	298,770	334,856	37,984	314,495	352,480	39,884	330,220	370,104	0.05%	-0.69%	-0.61%	0.05%	-0.69%	-0.61%	0.05%	-0.69%
2031	37,405	302,430	339,835	39,373	318,348	357,721	41,342	334,265	375,607	3.66%	1.23%	1.49%	3.66%	1.23%	1.49%	3.66%	1.23%
2032	38,001	314,921	352,921	40,001	331,495	371,496	42,001	348,070	390,071	1.59%	4.13%	3.85%	1.59%	4.13%	3.85%	1.59%	4.13%
2033	38,429	319,460	357,889	40,451	336,274	376,725	42,474	353,087	395,561	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%
2034	38,325	324,425	362,750	40,342	341,500	381,842	42,359	358,575	400,934	-0.27%	1.55%	1.36%	-0.27%	1.55%	1.36%	-0.27%	1.55%
2035	39,218	328,365	367,583	41,282	345,647	386,929	43,346	362,930	406,275	2.33%	1.21%	1.33%	2.33%	1.21%	1.33%	2.33%	1.21%
2036	40,109	325,244	365,353	42,220	342,363	384,582	44,331	359,841	403,811	2.27%	-0.95%	-0.61%	2.27%	-0.95%	-0.61%	2.27%	-0.95%
2037	40,591	337,363	377,954	42,727	355,119	397,846	44,863	372,875	417,738	1.20%	3.73%	3.45%	1.20%	3.73%	3.45%	1.20%	3.73%
2038	41,053	341,625	382,677	43,213	359,605	402,818	45,374	377,585	422,959	1.14%	1.26%	1.25%	1.14%	1.26%	1.25%	1.14%	1.26%
2039	41,464	345,888	387,352	43,646	364,093	407,739	45,828	382,597	428,126	1.00%	1.25%	1.22%	1.00%	1.25%	1.22%	1.00%	1.25%
2040	41,264	351,631	392,895	43,436	370,138	413,574	45,608	388,645	434,253	-0.48%	1.66%	1.43%	-0.48%	1.66%	1.43%	-0.48%	1.66%

Therms Usage by Class																	
Low						Medium						High					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	16,577,727	19,883,944	36,461,671	17,450,239	20,930,468	38,380,706	18,322,751	21,976,992	40,299,742	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	16,968,029	20,228,403	37,196,432	17,861,083	21,293,056	39,154,139	18,754,137	22,357,709	41,111,846	2.35%	1.73%	2.02%	2.35%	1.73%	2.02%	2.35%	1.73%
2023	17,334,467	20,552,776	37,887,243	18,246,808	21,634,502	39,881,309	19,159,148	22,716,226	41,875,374	2.16%	1.60%	1.86%	2.16%	1.60%	1.86%	2.16%	1.60%
2024	17,796,122	20,977,452	38,773,574	18,732,760	22,081,528	40,814,288	19,669,398	23,185,605	42,855,003	2.66%	2.07%	2.34%	2.66%	2.07%	2.34%	2.66%	2.07%
2025	18,073,534	21,210,430	39,282,964	19,024,773	22,326,768	41,351,541	19,976,012	23,443,107	43,419,119	1.56%	1.11%	1.32%	1.56%	1.11%	1.32%	1.56%	1.11%
2026	18,448,607	21,542,458	39,991,065	19,419,587	22,676,271	42,095,858	20,390,566	23,810,085	44,200,651	2.08%	1.57%	1.80%	2.08%	1.57%	1.80%	2.08%	1.57%
2027	18,818,039	21,870,542	40,688,581	19,808,462	23,021,623	42,830,085	20,798,885	24,172,704	44,971,590	2.00%	1.52%	1.74%	2.00%	1.52%	1.74%	2.00%	1.52%
2028	19,274,497	22,292,369	41,566,866	20,288,944	23,465,652	43,754,597	21,303,392	24,638,334	45,942,326	2.43%	1.93%	2.16%	2.43%	1.93%	2.16%	2.43%	1.93%
2029	19,544,732	22,523,839	42,068,301	20,573,402	23,709,305	44,282,707	21,602,072	24,894,769	46,496,842	1.40%	1.04%	1.04%	1.40%	1.04%	1.04%	1.40%	1.04%
2030	19,906,328	22,850,891	42,757,219	20,954,029	24,053,569	45,007,598	22,001,731	25,256,248	47,257,979	1.85%	1.45%	1.64%	1.85%	1.45%	1.64%	1.85%	1.45%
2031	20,263,384	23,1															

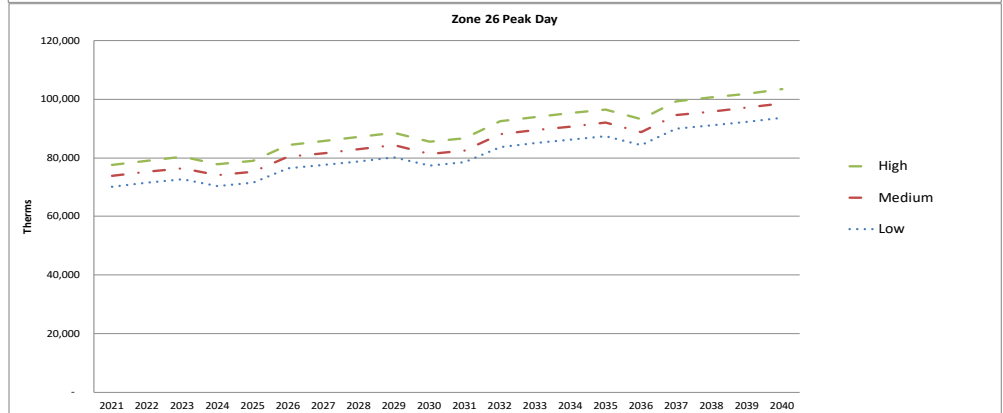
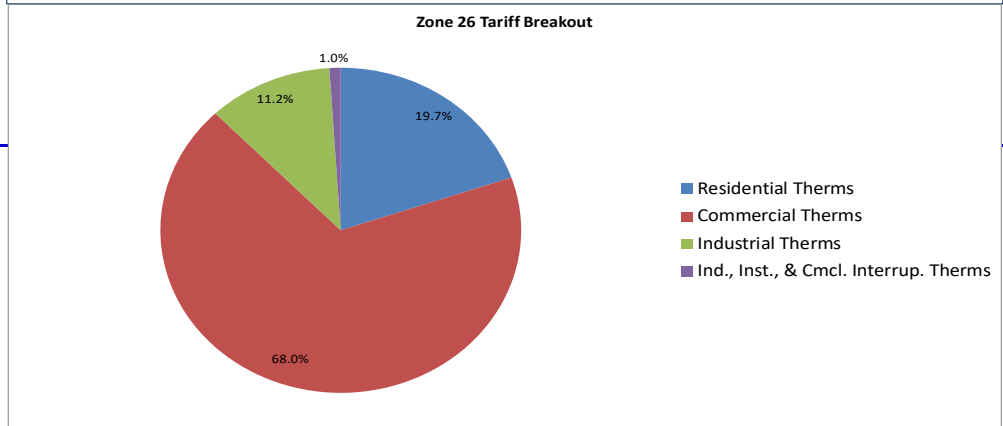
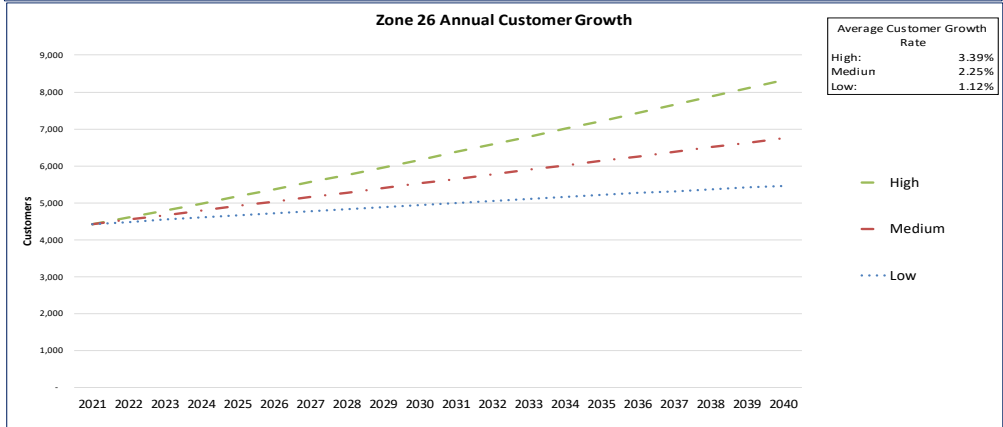
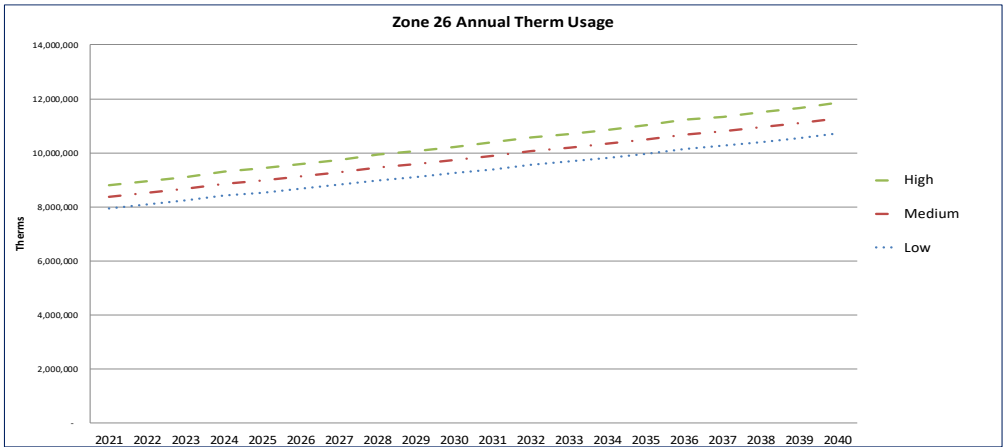


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone 26																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	5,283,425	2,673,999	7,957,423	5,561,499	2,814,735	8,376,235	5,839,575	2,955,472	8,795,047	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	5,377,295	2,720,458	8,097,753	5,660,311	2,863,640	8,523,950	5,943,326	3,006,822	8,950,148	1.78%	1.74%	1.76%	1.78%	1.74%	1.76%	1.78%	1.74%
2023	6,168,533	2,072,768	8,241,301	6,493,193	2,181,861	8,675,054	6,817,853	2,290,954	9,108,807	14.71%	-23.81%	1.77%	14.71%	-23.81%	1.77%	14.71%	-23.81%
2024	6,221,212	2,198,147	8,419,358	6,548,644	2,313,839	8,862,483	6,876,076	2,429,530	9,305,606	0.85%	6.05%	2.16%	0.85%	6.05%	2.16%	0.85%	6.05%
2025	5,558,399	2,974,262	8,532,661	5,850,946	3,130,803	8,981,749	6,143,493	3,287,343	9,430,836	-10.65%	35.31%	1.35%	-10.65%	35.31%	1.35%	-10.65%	35.31%
2026	5,726,510	2,949,902	8,676,411	6,027,905	3,105,160	9,133,064	6,329,300	3,260,418	9,589,718	3.02%	-0.82%	1.68%	3.02%	-0.82%	1.68%	3.02%	-0.82%
2027	5,855,818	2,964,356	8,820,174	6,164,019	3,120,375	9,284,394	6,472,219	3,276,394	9,748,613	2.26%	0.49%	1.66%	2.26%	0.49%	1.66%	2.26%	0.49%
2028	6,697,534	2,292,027	8,989,561	7,050,035	2,412,660	9,462,695	7,402,537	2,533,293	9,935,830	14.37%	-22.68%	1.92%	14.37%	-22.68%	1.92%	14.37%	-22.68%
2029	6,327,122	2,780,982	9,108,104	6,660,129	2,927,349	9,587,478	6,993,135	3,073,716	10,066,852	-5.53%	21.33%	1.32%	-5.53%	21.33%	1.32%	-5.53%	21.33%
2030	6,812,041	2,439,806	9,251,847	7,170,570	2,568,217	9,738,786	7,529,098	2,696,628	10,225,725	7.66%	-12.27%	1.58%	7.66%	-12.27%	1.58%	7.66%	-12.27%
2031	6,096,109	3,299,490	9,395,599	6,416,957	3,473,147	9,890,104	6,737,804	3,646,805	10,384,609	-10.51%	35.24%	1.55%	-10.51%	35.24%	1.55%	-10.51%	35.24%
2032	6,308,045	3,266,880	9,574,925	6,640,047	3,438,821	10,078,869	6,972,050	3,610,762	10,582,812	3.48%	-0.99%	1.91%	3.48%	-0.99%	1.91%	3.48%	-0.99%
2033	6,368,357	3,311,297	9,679,653	6,703,534	3,485,575	10,189,109	7,038,710	3,659,854	10,698,564	0.96%	1.36%	1.09%	0.96%	1.36%	1.09%	0.96%	1.36%
2034	7,294,241	2,529,047	9,823,288	7,678,149	2,662,155	10,340,303	8,062,056	2,795,262	10,857,318	14.54%	-23.62%	1.48%	14.54%	-23.62%	1.48%	14.54%	-23.62%
2035	6,905,386	3,065,855	9,971,242	7,268,828	3,227,216	10,496,044	7,632,269	3,388,577	11,020,846	-5.33%	21.23%	1.51%	-5.33%	21.23%	1.51%	-5.33%	21.23%
2036	6,567,499	3,585,260	10,152,759	6,913,157	3,773,957	10,687,114	7,258,814	3,962,655	11,221,470	-4.89%	16.94%	1.82%	-4.89%	16.94%	1.82%	-4.89%	16.94%
2037	6,726,070	3,533,395	10,259,465	7,080,074	3,719,363	10,799,437	7,434,077	3,905,332	11,339,409	2.41%	-1.45%	1.05%	2.41%	-1.45%	1.05%	2.41%	-1.45%
2038	6,848,680	3,554,642	10,403,322	7,209,138	3,741,728	10,950,865	7,569,594	3,928,814	11,498,408	1.82%	0.60%	1.40%	1.82%	0.60%	1.40%	1.82%	0.60%
2039	6,943,281	3,599,629	10,542,910	7,308,717	3,788,717	11,097,421	7,674,153	3,978,112	11,652,292	1.38%	1.26%	1.34%	1.38%	1.26%	1.34%	1.38%	1.26%
2040	7,865,335	2,860,878	10,726,213	8,279,301	3,011,451	11,290,751	8,693,266	3,162,023	11,855,289	13.28%	-20.52%	1.74%	13.28%	-20.52%	1.74%	13.28%	-20.52%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	7,326	62,909	70,235	7,712	66,220	73,932	8,097	69,531	77,628	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	7,453	63,982	71,435	7,846	67,349	75,195	8,238	70,417	78,954	1.74%	1.71%	1.71%	1.74%	1.71%	1.71%	1.74%	1.71%
2023	5,679	66,955	72,634	5,978	70,479	76,457	6,277	74,003	80,280	-23.81%	4.65%	1.68%	-23.81%	4.65%	1.68%	-23.81%	4.65%
2024	6,022	64,420	70,443	6,339	67,811	74,150	6,656	71,201	77,858	6.05%	-3.79%	-3.02%	6.05%	-3.79%	-3.02%	6.05%	-3.79%
2025	8,149	63,421	71,570	8,578	66,759	75,337	9,006	70,097	78,103	35.31%	-1.55%	1.60%	35.31%	-1.55%	1.60%	35.31%	-1.55%
2026	8,082	68,257	76,339	8,507	71,849	80,357	8,933	75,442	84,374	-0.82%	16.62%	6.66%	-0.82%	16.62%	6.66%	-0.82%	16.62%
2027	8,122	69,415	77,537	8,549	73,069	81,618	8,976	76,722	85,698	0.49%	1.70%	1.57%	0.49%	1.70%	1.57%	0.49%	1.70%
2028	6,280	72,567	78,847	6,610	76,387	82,997	6,941	80,206	87,147	-22.68%	4.54%	1.69%	-22.68%	4.54%	1.69%	-22.68%	4.54%
2029	7,619	72,426	80,046	8,020	76,238	84,258	8,421	80,850	88,471	21.33%	-0.19%	1.52%	21.33%	-0.19%	1.52%	21.33%	-0.19%
2030	6,684	70,626	77,310	7,036	74,343	81,379	7,388	80,560	85,448	-12.27%	-2.49%	-3.42%	-12.27%	-2.49%	-3.42%	-12.27%	-2.49%
2031	9,040	69,395	78,434	9,515	73,047	82,562	9,991	76,699	86,691	35.24%	-1.74%	1.45%	35.24%	-1.74%	1.45%	35.24%	-1.74%
2032	8,950	74,804	83,755	9,421	78,741	88,163	9,892	82,678	92,571	-0.99%	7.80%	6.78%	-0.99%	7.80%	6.78%	-0.99%	7.80%
2033	9,072	75,880	84,952	9,550	79,874	89,423	10,027	83,867	93,894	1.36%	1.44%	1.43%	1.36%	1.44%	1.43%	1.36%	1.44%
2034	6,929	79,220	86,149	7,294	83,389	90,683	7,658	87,559	95,217	-23.62%	4.40%	1.41%	-23.62%	4.40%	1.41%	-23.62%	4.40%
2035	8,400	78,945	87,345	8,842	83,100	91,942	9,284	87,255	95,539	21.23%	-0.35%	1.39%	21.23%	-0.35%	1.39%	21.23%	-0.35%
2036	9,823	74,471	84,293	10,340	78,390	88,730	10,857	82,310	93,166	16.94%	-5.67%	-3.49%	16.94%	-5.67%	-3.49%	16.94%	-5.67%
2037	9,681	80,179	89,860	10,190	84,399	94,589	10,700	88,619	99,318	-1.45%	7.67%	6.60%	-1.45%	7.67%	6.60%	-1.45%	7.67%
2038	9,739	81,316	91,055	10,251	85,596	95,848	10,764	89,076	100,640	0.60%	1.42%	1.33%	0.60%	1.42%	1.33%	0.60%	1.42%
2039	9,861	82,389	92,250	10,380	86,725	97,105	10,899	91,061	101,960	1.26%	1.32%	1.31%	1.26%	1.32%	1.31%	1.26%	1.32%
2040	7,838	85,734	93,572	8,251	90,247	98,497	8,663	94,759	103,422	-20.52%	4.06%	1.43%	-20.52%	4.06%	1.43%	-20.52%	4.06%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,560,294	6,397,130	7,957,423	1,642,414	6,733,820	8,376,235	1,724,535	7,070,512	8,795,047	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,607,647	6,490,106	8,097,753	1,692,260	6,831,691	8,523,950	1,776,873	7,173,275	8,950,148	3.03%	1.45%	1.76%	3.03%	1.45%	1.76%	3.03%	1.45%
2023	1,655,594	6,585,707	8,241,301	1,742,731	6,932,323	8,675,054	1,829,867	7,278,939	9,108,807	2.98%	1.47%	1.77%	2.98%	1.47%	1.77%	2.98%	1.47%
2024	1,711,018	6,708,341	8,419,358	1,801,071	7,061,411	8,862,483	1,891,125	7,414,482	9,305,606	3.35%	1.86%	2.16%	3.35%	1.86%	2.16%	3.35%	1.86%
2025	1,752,412	6,780,249	8,532,661	1,844,644	7,137,104	8,981,749	1,936,877	7,495,959	9,430,836	2.42%	1.07%	1.35%	2.42%	1.07%	1.35%	2.42%	1.07%
2026	1,800,397	6,876,014	8,676,411	1,895,155	7,237,910	9,133,064	1,989,913	7,599,805	9,589,718	2.74%	1.41%	1.68%	2.74%	1.41%	1.68%	2.74%	1.41%
2027	1,848,381	6,971,793	8,820,174	1,945,664	7,338,730	9,284,394	2,042,947	7,705,666	9,748,613	2.67%	1.39%	1.66%	2.67%	1.39%	1.66%	2.67%	1.39%
2028	1,902,399	7,087,162	8,989,561	2,002,525	7,460,170	9,462,695	2,102,651	7,833,179	9,935,830	2.92%	1.65%	1.92%	2.92%	1.65%	1.92%	2.92%	1.65%
2029	1,944,507	7,163,597	9,108,104	2,046,849	7,540,629	9,587,478	2,149,192	7,917,660	10,066,852	2.21%	1.08%	1.32%	2.21%	1.08%	1.32%	2.21%	1.08%
2030	1,992,485	7,259,362	9,251,847	2,097,352	7,641,434	9,738,786	2,202,220	8,023,505	10,225,725	2.47%	1.34%	1.58%	2.47%	1.34%	1.58%	2.47%	1.34%
2031	2,040,463	7,355,136	9,395,599	2,147,855	7,742,249	9,890,104	2,255,248	8,129,361	10,384,609	2.41%	1.32%	1.55%	2.41%	1.32%	1.55%	2.41%	1.32%
2032	2,096,770	7,478,155	9,574,925	2,207,127	7,871,742	10,078,869	2,317,483	8,265,329	10,582,812	2.76%	1.67%	1.91%	2.76%	1.67%	1.91%	2.76%	1.67%
2033	2,135,747	7,543,907	9,679,653	2,248,155	7,940,954	10,189,109	2,360,502	8,338,002	10,698,564	1.86%	0.88%	1.09%	1.86%	0.88%	1.09%	1.86%	0.88%
2034	2,183,678	7,639,609	9,823,288	2,298,609	8,041,695	10,340,303	2,413,539	8,443,779	10,857,318	2.24%	1.27%	1.48%	2.24%	1.27%	1.48%	2.24%	1.27%
2035	2,232,517	7,738,724	9,971,242	2,350,018	8,146,026	10,496,044	2,467,519	8,553,327	11,020,846	2.24%	1.30%	1.51%	2.24%	1.30%	1.51%	2.24%	1.30%
2036	2,289,586	7,863,172	10,152,759	2,410,091	8,277,023	10,687,114	2,530,595	8,690,874	11,221,470	2.56%	1.61%	1.82%	2.56%				

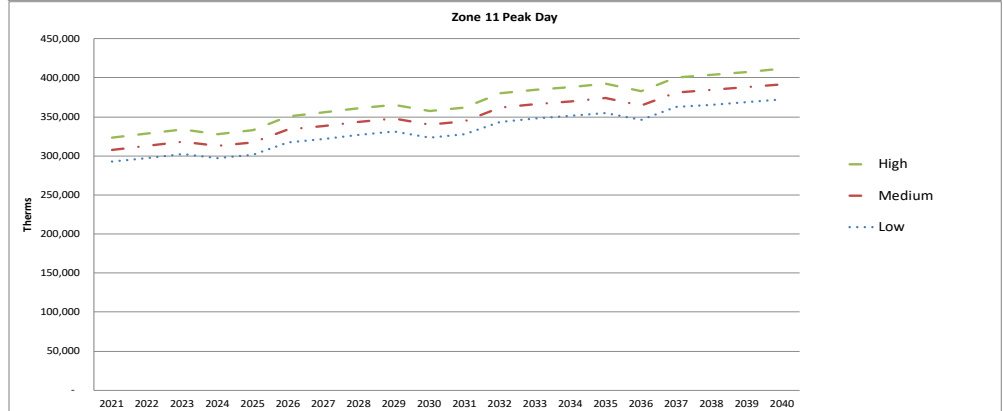
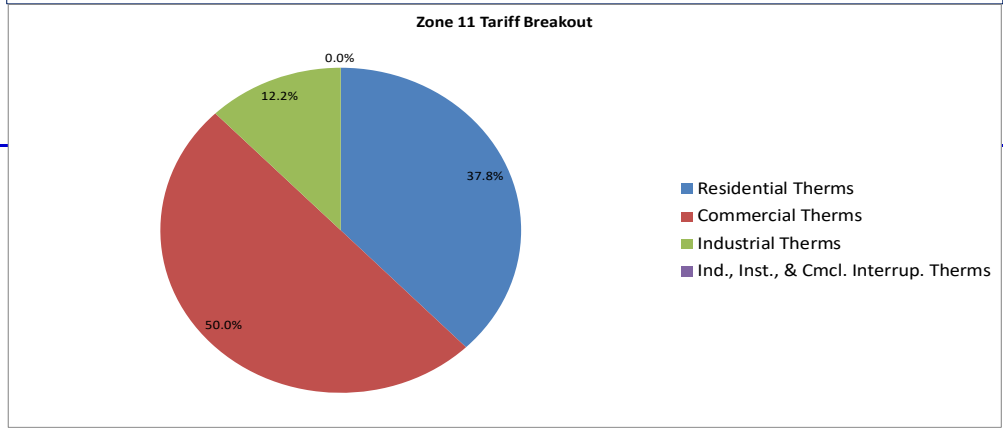
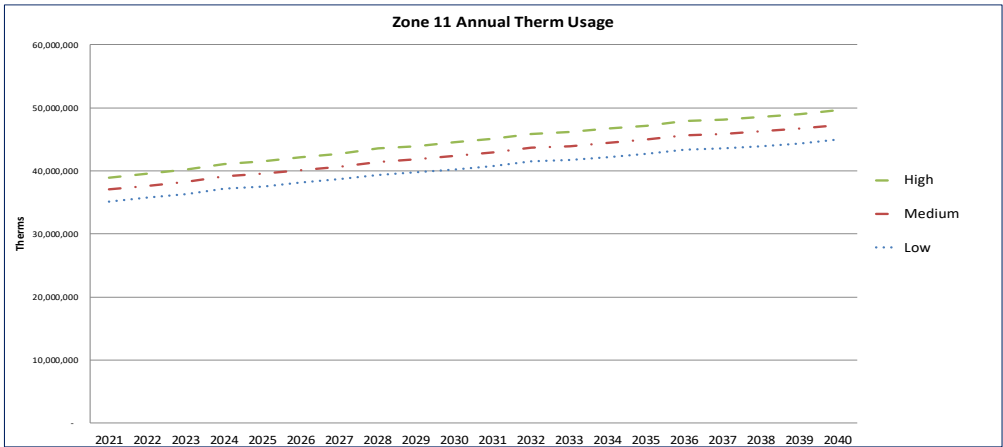


Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Zone 11														
Annual Requirements (Therms)														
Low					Medium					High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	26,265,267	8,923,696	35,188,963	27,647,650	9,393,364	37,041,014	29,030,032	9,863,032	38,893,064	0.00%	0.00%	0.00%	0.00%	0.00%
2022	26,791,362	8,984,102	35,775,464	28,201,433	9,456,590	37,658,023	29,611,505	9,929,798	39,541,302	2.00%	0.68%	1.67%	2.00%	0.68%
2023	27,202,929	9,166,513	36,369,441	28,634,662	9,648,961	38,283,623	30,066,395	10,131,409	40,197,804	1.54%	2.03%	1.66%	1.54%	2.03%
2024	27,577,292	9,572,254	37,149,547	29,028,729	10,076,057	39,104,786	30,480,164	10,579,861	41,060,025	1.38%	4.43%	2.14%	1.38%	4.43%
2025	27,830,348	9,716,831	37,547,179	29,295,102	10,228,243	39,523,346	30,759,858	10,739,556	41,499,514	0.92%	5.17%	1.07%	0.92%	5.17%
2026	28,301,318	9,815,087	38,116,405	29,790,859	10,331,672	40,122,531	31,280,405	10,848,253	42,128,659	1.69%	1.01%	1.52%	1.69%	1.01%
2027	28,797,025	9,877,952	38,674,977	30,312,658	10,397,844	40,710,502	31,828,289	10,917,739	42,746,028	1.75%	0.64%	1.47%	1.75%	0.64%
2028	29,495,378	9,896,192	39,391,570	31,047,766	10,417,044	41,464,811	32,600,156	10,937,895	43,538,051	2.43%	0.18%	1.85%	2.43%	0.18%
2029	29,538,542	10,218,214	39,756,755	31,093,200	10,756,015	41,849,215	32,647,860	11,293,816	43,941,676	0.15%	3.25%	0.93%	0.15%	3.25%
2030	29,784,190	10,495,742	40,279,931	31,351,777	11,048,150	42,399,927	32,919,365	11,600,559	44,519,924	0.83%	2.72%	1.32%	0.83%	2.72%
2031	30,178,337	10,611,455	40,789,792	31,766,671	11,169,952	42,936,623	33,355,004	11,728,450	45,083,454	1.32%	1.10%	1.27%	1.32%	1.10%
2032	30,933,601	10,555,542	41,489,143	32,561,686	11,111,096	43,672,782	34,189,770	11,666,651	45,856,421	2.50%	-0.53%	1.71%	2.50%	-0.53%
2033	31,190,050	10,568,226	41,758,277	32,831,630	11,124,451	43,956,081	34,473,211	11,680,673	46,153,885	0.83%	0.12%	0.65%	0.83%	0.12%
2034	31,506,246	10,720,584	42,226,831	33,164,470	11,284,825	44,449,295	34,822,692	11,849,068	46,671,760	1.01%	1.44%	1.12%	1.01%	1.44%
2035	31,657,142	11,035,595	42,692,737	33,323,308	11,616,416	44,939,724	34,989,474	12,197,237	47,136,711	0.48%	2.94%	1.08%	0.48%	2.94%
2036	32,096,020	11,245,793	43,341,813	33,785,283	11,837,678	45,622,961	35,474,546	12,429,564	47,904,109	1.39%	1.90%	1.39%	1.39%	1.90%
2037	32,524,815	11,296,704	43,821,519	33,952,435	11,891,269	45,843,704	35,650,059	12,485,830	48,135,889	0.49%	0.45%	0.48%	0.49%	0.45%
2038	32,659,949	11,300,226	43,960,174	34,378,897	11,894,971	46,273,867	36,097,800	12,489,720	48,587,560	1.26%	0.03%	0.94%	1.26%	0.03%
2039	33,063,003	11,252,556	44,315,559	34,800,002	11,876,377	46,676,379	36,540,004	12,470,193	49,010,197	1.22%	-0.16%	0.87%	1.22%	-0.16%
2040	33,379,341	11,567,229	44,946,569	35,136,147	12,176,031	47,312,178	36,892,954	12,784,833	49,677,787	0.97%	2.52%	1.36%	0.97%	2.52%

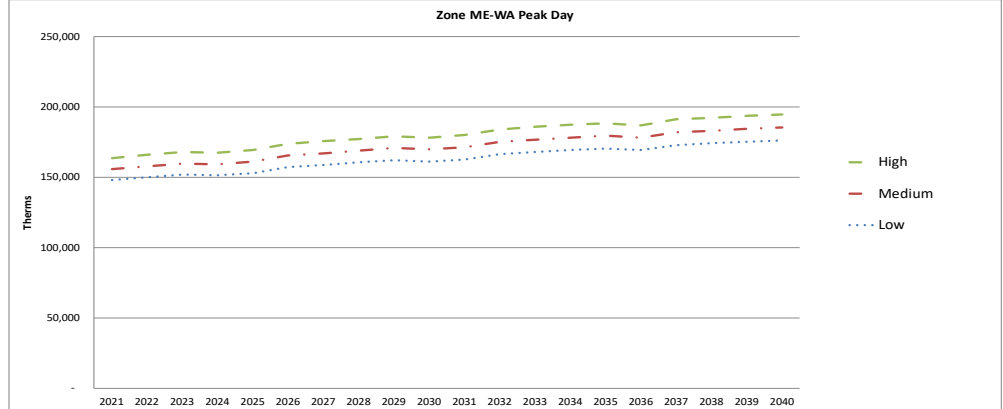
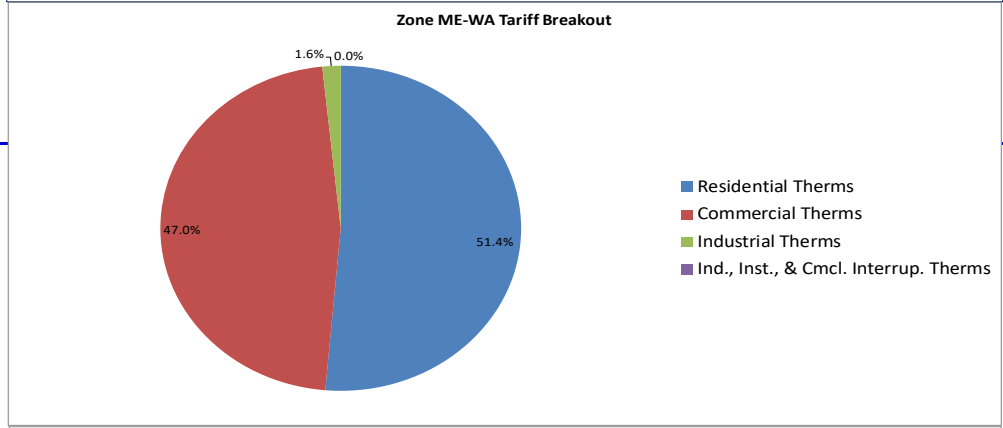
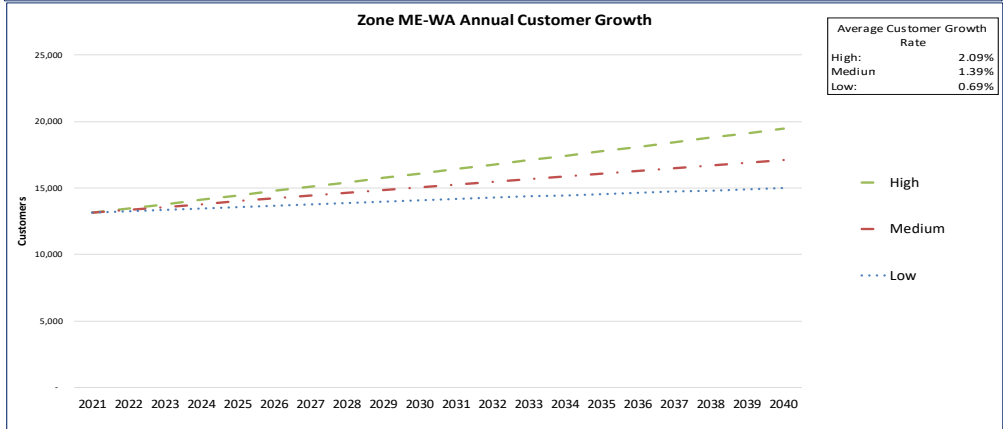
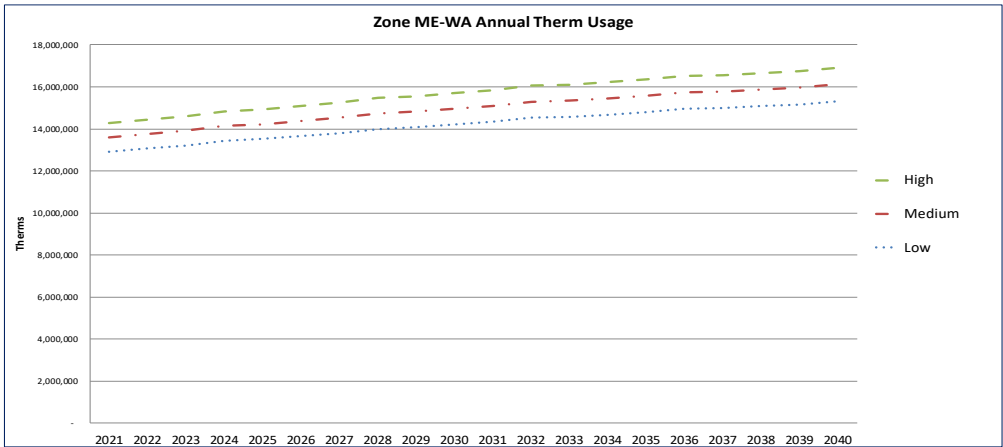
Peak Day - BaseLoad														
Low					Medium					High				
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total
2021	24,448	268,144	292,593	25,735	282,257	307,993	27,022	296,370	323,392	0.00%	0.00%	0.00%	0.00%	0.00%
2022	24,614	272,888	297,501	25,909	287,250	313,159	27,205	301,613	328,817	0.68%	1.77%	1.68%	0.68%	1.77%
2023	25,114	277,275	302,388	26,436	291,868	318,303	27,757	306,461	334,219	2.03%	1.61%	1.64%	2.03%	1.61%
2024	26,225	270,582	296,807	27,606	284,823	312,429	28,986	299,064	328,050	4.43%	-2.41%	-1.85%	4.43%	-2.41%
2025	26,621	274,799	301,401	28,023	289,241	317,264	29,424	302,704	332,576	0.54%	3.59%	1.55%	0.54%	3.59%
2026	26,891	290,105	316,995	28,206	305,374	323,679	29,721	320,642	350,364	1.01%	5.58%	1.01%	1.01%	5.58%
2027	27,063	294,515	321,578	28,487	310,015	328,503	29,912	325,516	355,428	0.64%	1.52%	1.45%	0.64%	1.52%
2028	27,113	299,291	326,404	28,540	315,044	333,583	29,967	330,796	360,763	0.18%	1.62%	1.50%	0.18%	1.62%
2029	27,995	302,793	330,788	29,469	318,729	348,197	30,942	334,665	365,607	3.25%	1.17%	1.34%	3.25%	1.17%
2030	28,755	294,569	323,325	30,269	310,073	340,342	31,782	325,577	357,359	-2.72%	-2.72%	-2.72%	-2.72%	-2.72%
2031	29,072	298,260	327,333	30,603	313,958	344,561	32,133	329,656	361,789	1.10%	1.25%	1.24%	1.10%	1.25%
2032	28,919	314,723	343,642	30,441	331,287	361,729	31,963	347,852	379,815	-0.53%	5.52%	4.98%	-0.53%	5.52%
2033	28,954	318,628	347,582	30,478	335,398	365,876	32,002	352,168	384,169	0.12%	1.24%	1.15%	0.12%	1.24%
2034	29,371	322,021	351,392	30,917	338,969	369,886	32,463	355,917	388,381	1.44%	1.06%	1.10%	1.44%	1.06%
2035	30,235	324,833	355,067	31,826	341,929	373,755	33,417	359,026	392,443	2.94%	0.87%	0.87%	2.94%	0.87%
2036	30,810	315,574	346,385	32,432	332,184	364,616	34,054	348,793	382,846	1.90%	-2.85%	-2.45%	1.90%	-2.85%
2037	30,950	331,443	362,393	32,579	348,887	381,466	34,208	366,331	400,539	0.45%	5.03%	4.62%	0.45%	5.03%
2038	30,960	334,722	365,681	32,589	352,339	384,928	34,218	369,956	404,174	0.03%	0.99%	0.91%	0.03%	0.99%
2039	30,911	337,945	368,856	32,538	355,732	388,270	34,165	373,519	407,683	-0.16%	0.96%	0.87%	-0.16%	0.96%
2040	31,691	340,641	372,332	33,359	358,569	391,928	35,027	376,498	411,525	2.52%	0.80%	0.94%	2.52%	0.80%

Therms Usage by Class														
Low					Medium					High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	13,539,855	21,649,107	35,188,963	14,252,480	22,788,534	37,041,014	14,965,103	23,927,961	38,893,064	0.00%	0.00%	0.00%	0.00%	0.00%
2022	13,747,245	22,028,219	35,775,464	14,470,784	23,187,599	37,658,023	15,194,233	24,346,979	39,541,302	1.53%	1.75%	1.67%	1.53%	1.75%
2023	13,956,671	22,412,770	36,369,441	14,691,233	23,592,390	38,283,623	15,425,795	24,772,009	40,197,804	1.52%	1.75%	1.66%	1.52%	1.75%
2024	14,241,824	22,907,723	37,149,547	14,991,394	24,113,393	39,104,786	15,740,964	25,319,062	41,060,025	2.04%	2.21%	2.14%	2.04%	2.21%
2025	14,372,438	23,174,741	37,547,179	15,128,882	24,394,464	39,523,346	15,885,327	25,614,187	41,499,514	0.92%	1.17%	1.07%	0.92%	1.17%
2026	14,573,108	23,543,297	38,116,405	15,340,114	24,782,418	40,122,531	16,107,119	26,021,539	42,128,659	1.40%	1.59%	1.52%	1.40%	1.59%
2027	14,769,897	23,905,080	38,674,977	15,547,261	25,163,241	40,710,502	16,324,624	26,421,404	42,746,028	1.35%	1.54%	1.47%	1.35%	1.54%
2028	15,032,144	24,359,426	39,391,570	15,823,309	25,641,501	41,464,811	16,614,475	26,923,576	43,538,051	1.78%	1.90%	1.85%	1.78%	1.90%
2029	15,149,719	24,607,036	39,756,755	15,947,072	25,902,143	41,849,215	16,744,426	27,197,250	43,941,676	0.78%	1.02%	0.93%	0.78%	1.02%
2030	15,333,013	24,946,918	40,279,931	16,140,014	26,259,913	42,399,927	16,947,015	27,572,909	44,519,924	1.21%	1.38%	1.32%	1.21%	1.38%
2031	15,511,368	25,278,424	40,789,792	16,327,755	26,608,868	42,936,623	17,144,143	27,939,311	45,083,454	1.16%	1.33%	1.27%	1.16%	1.33%
2032	15,766,445	25,722,699	41,489,143	16,596,257	27,076,525	43,672,782	17,426,070	28,430,351	45,856,421	1.64%	1.76%	1.71%	1.64%	1.76%
2033	15,848,208	25,910,069	41,758,277	16,682,324	27,273,758	43,956,081	17,516,400	28,637,445	46,153,885	0.52%	0.73%	0.65%	0.52%	0.73%
2034	16,010,745	26,216,085	42,226,831	16,853,416	27,595,879	44,449,295	17,696,087	28,975,674	46,671,760	1.03%	1.18%	1.09%	1.03%	1.18%
2035	16,171,762	26,520,976	42,692,737	17,022,907	27,916,817	44,939,724	17,874,053	29,312,658	47,136,711	1.01%	1.16%	1.10%	1.01%	1.16%
2036	16,407,711	26,894,102	43,341,813	17,271,275	28,351,686	45,622,961	18,134,838	29,769,727	47,904,109	1.46%	1.56%	1.52%	1.46%	1.56%
2037	16,467,157	27,084,362	43,551,519	17,333,580	28,509,855	45,843,704	18,200,542	29,935,347	48,135,889	0.36%	0.56%	0.48%	0.36%	0.56%
2038	16,606,652	27,353,522	43,960,174	17,480,687	28,793,181	46,273,867	18,354,721	30,232,8						



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Zone ME-WA Annual Requirements (Therms) Annual Change Peak Day - BaseLoad Annual Change Therms Usage by Class Annual Change Customer Count Forecast Annual Change

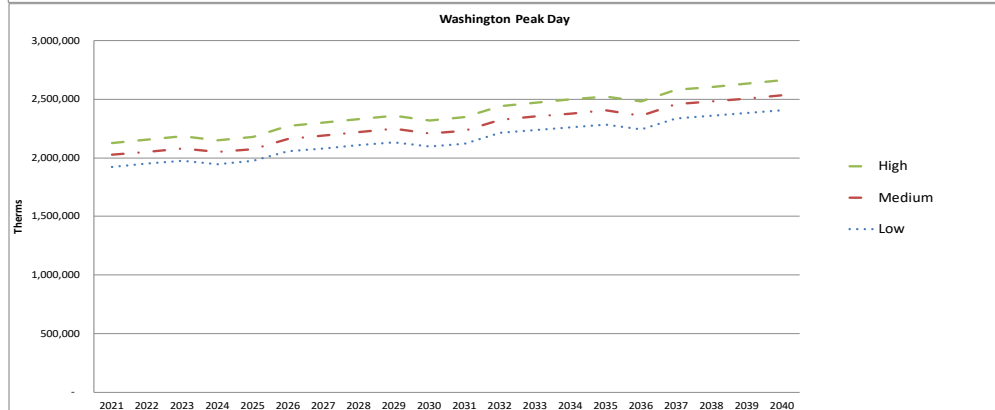
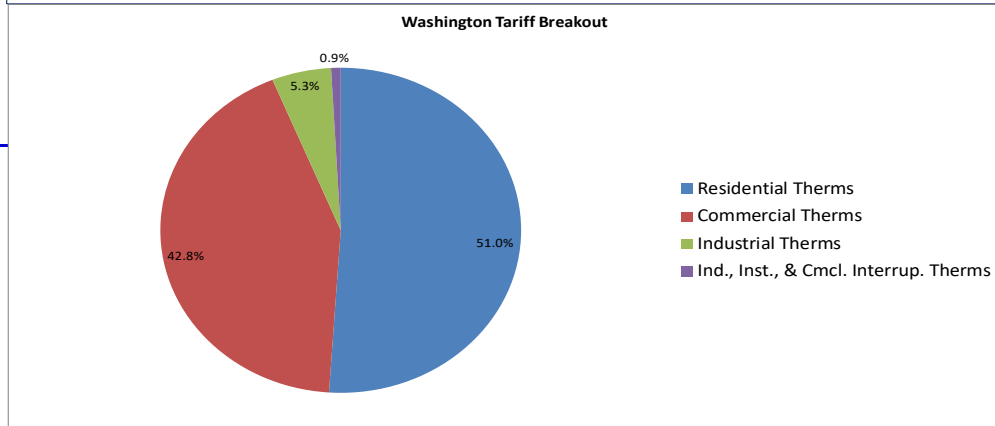
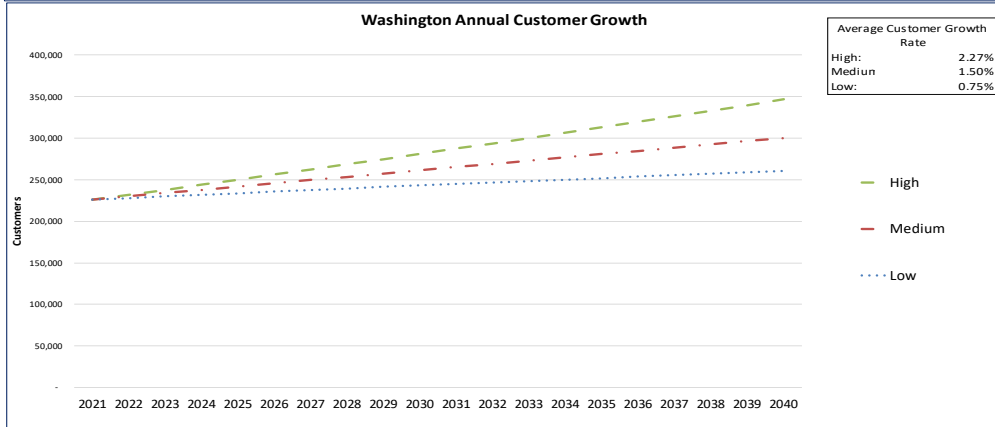
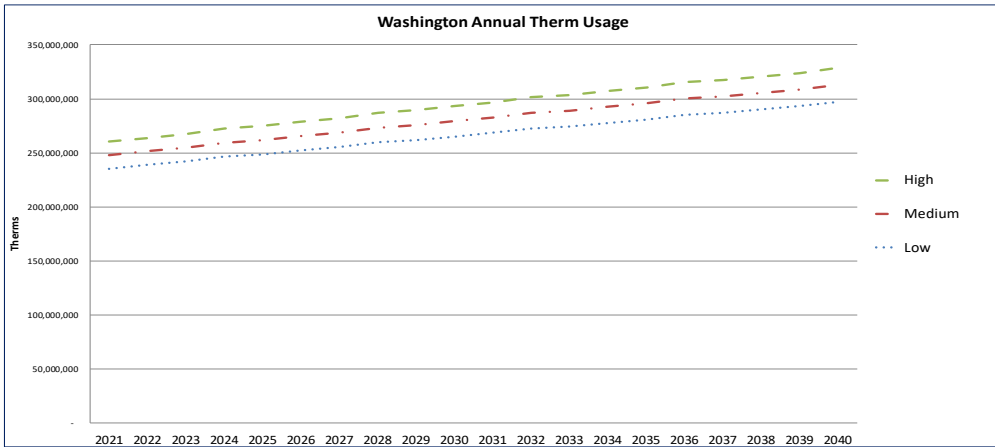


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Washington																	
Annual Requirements (Therms)																	
Low						Medium						High					
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	167,752,563	67,749,451	235,502,015	176,581,646	71,315,211	247,896,857	185,410,726	74,880,975	260,291,700	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	170,274,690	68,563,999	238,838,689	179,236,513	72,172,633	251,409,146	188,198,338	75,781,266	263,979,604	1.50%	1.20%	1.42%	1.50%	1.20%	1.42%	1.50%	1.20%
2023	180,232,524	61,921,843	242,154,367	189,718,449	66,180,885	254,899,334	199,204,375	68,439,929	267,644,304	5.85%	-9.69%	1.39%	5.85%	-9.69%	1.39%	5.85%	-9.69%
2024	183,540,872	63,057,068	246,597,940	193,200,916	66,375,861	259,576,777	202,860,967	69,694,652	272,555,619	1.84%	1.83%	1.84%	1.84%	1.83%	1.84%	1.84%	1.83%
2025	204,976,578	72,151,957	277,128,535	215,949,430	76,349,820	292,289,250	221,942,667	78,510,800	299,453,467	-3.73%	14.22%	0.91%	-3.73%	14.22%	0.91%	-3.73%	14.22%
2026	179,579,218	72,587,661	252,166,879	189,030,748	76,408,069	265,438,817	198,482,286	80,228,472	278,710,758	1.63%	0.60%	1.33%	1.63%	0.60%	1.33%	1.63%	0.60%
2027	182,078,843	73,385,297	255,464,140	191,661,941	77,247,678	268,909,620	201,245,030	81,110,072	282,355,102	1.39%	1.10%	1.31%	1.39%	1.10%	1.31%	1.39%	1.10%
2028	193,273,943	66,473,174	259,747,117	203,446,255	69,971,764	273,418,018	213,618,571	73,470,351	287,088,922	6.15%	-9.42%	1.68%	6.15%	-9.42%	1.68%	6.15%	-9.42%
2029	191,115,929	70,855,586	262,001,515	201,174,661	74,616,406	275,791,068	211,233,944	78,347,228	289,580,622	-1.12%	6.64%	0.87%	-1.12%	6.64%	0.87%	-1.12%	6.64%
2030	197,069,230	68,179,339	265,248,669	207,441,292	71,767,621	279,208,913	217,813,361	75,356,000	293,169,361	3.12%	-3.82%	1.24%	3.12%	-3.82%	1.24%	3.12%	-3.82%
2031	190,639,800	77,830,349	268,470,149	200,673,476	81,926,681	282,600,157	210,707,145	86,023,017	296,730,163	-3.26%	14.16%	1.21%	-3.26%	14.16%	1.21%	-3.26%	14.16%
2032	194,680,402	78,158,837	272,839,239	204,926,736	82,272,459	287,199,195	215,173,071	86,386,088	301,559,159	2.12%	0.42%	1.63%	2.12%	0.42%	1.63%	2.12%	0.42%
2033	195,888,086	78,869,703	274,757,789	206,197,977	83,020,744	289,218,721	216,507,884	87,171,777	303,679,661	0.62%	0.91%	0.70%	0.62%	0.91%	0.70%	0.62%	0.91%
2034	206,467,311	71,415,333	277,882,644	217,334,009	75,174,037	292,508,047	228,200,711	79,133,451	307,333,161	5.40%	-9.45%	1.14%	5.40%	-9.45%	1.14%	5.40%	-9.45%
2035	204,976,578	76,073,141	281,049,719	215,764,902	80,076,998	295,841,900	226,553,156	84,080,839	310,639,995	-0.72%	6.52%	1.14%	-0.72%	6.52%	1.14%	-0.72%	6.52%
2036	202,823,798	82,544,113	285,367,911	213,498,735	86,888,541	300,387,276	224,173,667	91,231,975	315,409,642	-1.05%	8.51%	1.54%	-1.05%	8.51%	1.54%	-1.05%	8.51%
2037	204,494,875	82,684,311	287,179,186	215,257,760	87,036,120	302,293,879	226,020,652	91,387,920	317,408,571	0.82%	0.17%	0.63%	0.82%	0.17%	0.63%	0.82%	0.17%
2038	206,833,843	83,375,845	290,209,688	217,719,827	87,764,046	305,483,873	228,605,823	92,152,245	320,758,067	1.14%	0.84%	1.06%	1.14%	0.84%	1.06%	1.14%	0.84%
2039	209,104,801	84,042,275	293,147,076	220,110,314	88,465,555	308,575,869	231,115,830	92,888,831	324,004,661	1.10%	0.80%	1.01%	1.10%	0.80%	1.01%	1.10%	0.80%
2040	220,968,002	76,461,657	297,429,659	232,597,895	80,485,960	313,083,855	244,227,789	84,510,258	328,738,047	5.67%	-9.02%	1.46%	5.67%	-9.02%	1.46%	5.67%	-9.02%

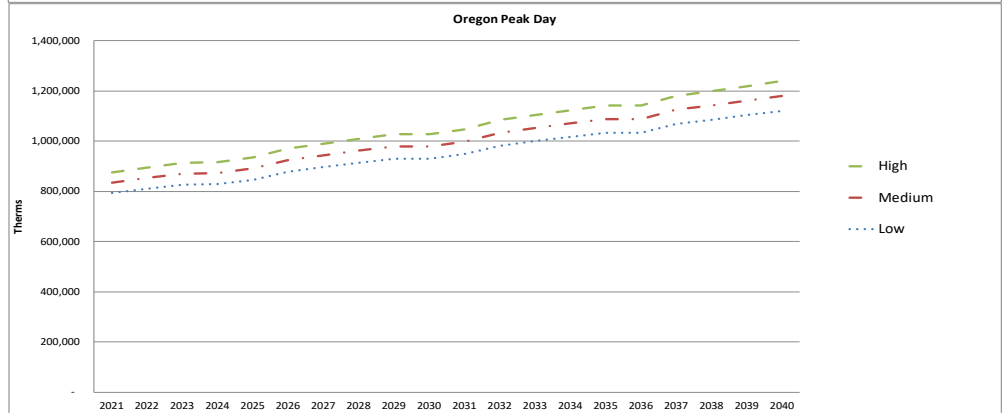
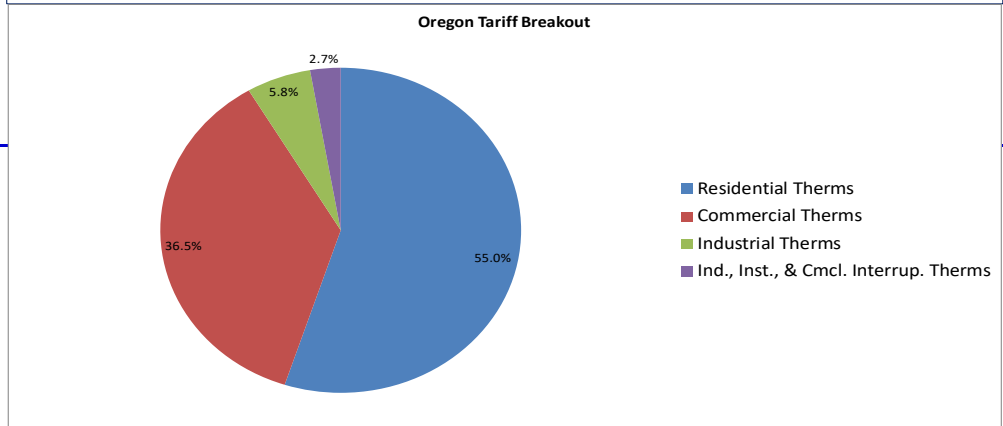
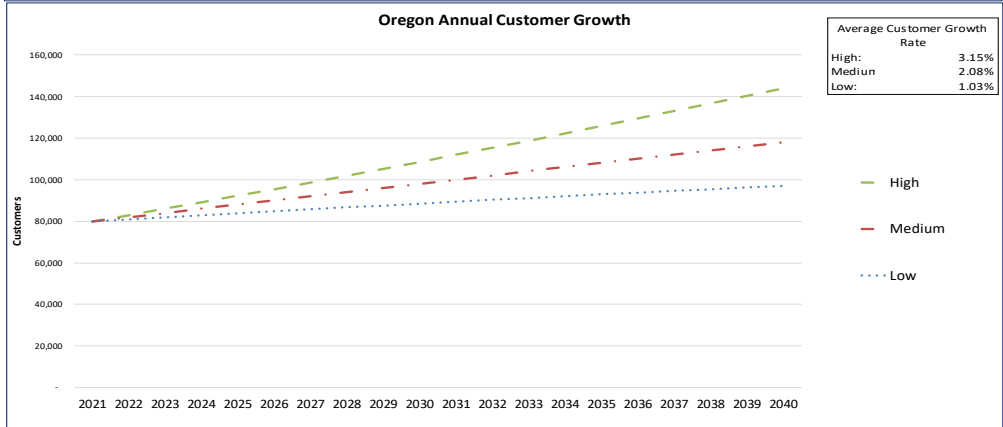
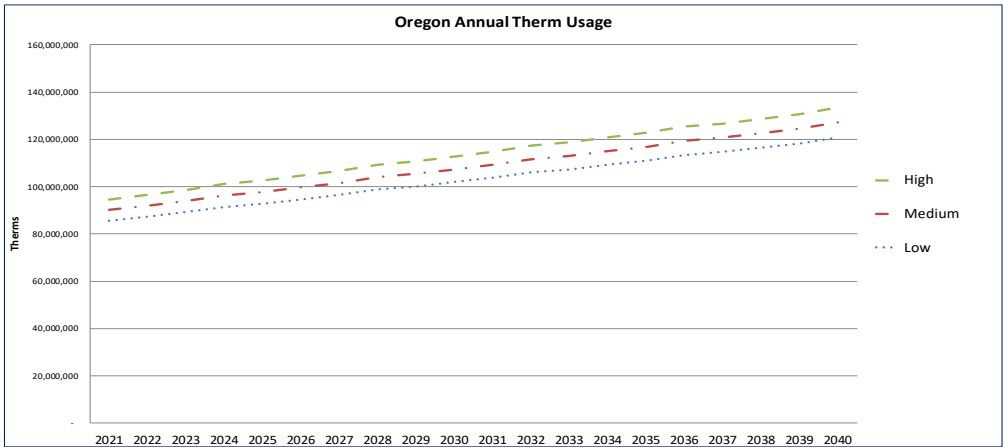
Peak Day - BaseLoad																	
Low						Medium						High					
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	185,615	1,738,415	1,924,030	195,384	1,829,910	2,025,295	205,153	1,921,406	2,126,559	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	187,847	1,762,739	1,950,585	197,733	1,855,515	2,053,248	207,620	1,948,290	2,155,910	1.20%	1.40%	1.38%	1.20%	1.40%	1.38%	1.20%	
2023	169,649	1,806,916	1,976,565	178,578	1,902,016	2,080,594	187,507	1,997,117	2,184,624	-9.69%	2.51%	1.33%	-9.69%	2.51%	1.33%	-9.69%	
2024	172,759	1,774,006	1,946,765	181,852	1,867,374	2,049,226	190,944	1,960,743	2,151,687	1.83%	-1.82%	1.83%	-1.82%	1.83%	-1.82%	1.83%	
2025	197,693,578	1,774,006	2,149,684	197,693,578	1,774,006	2,149,684	197,693,578	1,774,006	2,149,684	14.42%	0.01%	1.29%	14.42%	0.01%	1.29%	14.42%	
2026	198,870	1,856,830	2,055,700	209,337	1,954,558	2,163,895	219,804	2,052,286	2,172,090	0.60%	4.65%	0.60%	4.65%	0.60%	4.65%	0.60%	
2027	201,056	1,880,506	2,081,562	211,637	1,979,480	2,191,118	222,219	2,078,454	2,300,674	1.10%	1.28%	1.26%	1.10%	1.28%	1.26%	1.10%	
2028	182,118	1,926,276	2,108,394	191,703	2,027,659	2,219,362	201,289	2,129,042	2,330,330	-9.42%	2.43%	1.29%	-9.42%	2.43%	1.29%	-9.42%	
2029	194,207	1,939,800	2,134,007	204,429	2,041,895	2,246,323	216,650	2,143,989	2,358,339	6.64%	0.70%	1.21%	6.64%	0.70%	1.21%	6.64%	
2030	186,792	1,910,888	2,097,680	196,624	2,011,461	2,208,084	204,555	2,112,034	2,318,489	-3.82%	-1.49%	-1.70%	-3.82%	-1.49%	-1.70%	-3.82%	
2031	213,234	1,908,914	2,122,148	224,457	2,009,384	2,233,840	235,679	2,109,853	2,345,533	14.16%	-10.10%	1.17%	14.16%	-10.10%	1.17%	14.16%	
2032	214,134	1,996,873	2,211,007	225,404	2,101,972	2,327,376	236,674	2,207,070	2,443,744	0.42%	4.61%	4.19%	0.42%	4.61%	4.19%	0.42%	
2033	216,081	2,019,775	2,235,857	227,454	2,126,080	2,353,534	238,827	2,232,383	2,471,210	0.91%	1.15%	1.12%	0.91%	1.15%	1.12%	0.91%	
2034	195,658	2,064,742	2,260,401	205,956	2,173,413	2,379,369	216,254	2,282,083	2,496,338	-9.45%	2.23%	1.10%	-9.45%	2.23%	1.10%	-9.45%	
2035	208,420	2,076,351	2,284,771	219,389	2,185,633	2,405,022	230,358	2,294,915	2,525,273	6.52%	0.56%	0.52%	6.52%	0.56%	0.52%	6.52%	
2036	226,148	2,107,669	2,243,817	238,051	2,123,862	2,361,913	249,953	2,230,055	2,480,008	8.51%	-2.83%	-1.79%	8.51%	-2.83%	-1.79%	8.51%	
2037	226,532	2,017,601	2,334,234	238,455	2,218,633	2,457,088	250,378	2,329,564	2,579,942	0.17%	4.46%	4.03%	0.17%	4.46%	4.03%	0.17%	
2038	228,427	2,129,620	2,358,047	240,449	2,241,706	2,482,155	252,472	2,353,791	2,606,263	0.84%	1.04%	1.02%	0.84%	1.04%	1.02%	0.84%	
2039	230,253	2,151,414	2,381,667	242,371	2,264,646	2,507,018	254,490	2,373,779	2,662,368	0.80%	1.02%	1.00%	0.80%	1.02%	1.00%	0.80%	
2040	209,484	2,197,103	2,406,587	220,509	2,312,740	2,533,250	231,535	2,428,378	2,659,913	-9.02%	2.12%	1.05%	-9.02%	2.12%	1.05%	-9.02%	

Therms Usage by Class																	
Low						Medium						High					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	121,596,975	113,905,040	235,502,015	127,996,815	119,900,042	247,896,857	134,396,656	125,895,405	260,291,700	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	122,212,094	115,626,595	238,838,689	129,696,942	121,712,024	251,409,146	136,181,789	127,797,815	263,979,604	1.33%	1.51%	1.42%	1.33%	1.51%	1.42%	1.33%	
2023	118,234,955	117,338,412	242,154,367	131,385,214	123,514,119	254,899,334	137,954,480	129,689,824	267,644,304	1.30%	1.48%	1.39%	1.30%	1.48%	1.39%	1.30%	
2024	127,019,882	119,578,058	246,597,940	133,705,137	125,871,640	259,576,777	140,390,398	132,165,221	272,555,619	1.77%	1.91%	1.84%	1.77%	1.91%	1.84%	1.77%	
2025	128,057,477	120,788,057	248,845,534	134,797,343	127,145,323	261,942,667	141,537,212	133,502,589	275,039,801	0.82%	1.01%	0.91%	0.82%	1.01%	0.91%	0.82%	
2026	129,672,900	122,493,970	252,166,879	136,497,799	128,941,019	265,438,817	143,822,687	135,388,071	278,710,758	1.26%	1.41%	1.26%	1.26%	1.41%	1.26%	1.26%	
2027	131,278,865	124,185,276	255,464,140	138,188,277	130,721,342	268,909,620	145,097,691	137,257,410	282,355,102	1.24%	1.38%	1.24%	1.38%	1.24%	1.38%	1.24%	
2028	133,422,020	126,325,097	259,747,117	140,444,231	132,973,787	273,418,018	147,466,446	139,622,462	287,088,922	1.63%	1.72%	1.68%	1.63%	1.72%	1.68%	1.63%	
2029	134,468,756	127,532,760	262,001,515	141,546,057	134,245,011	275,791,068	148,623,361	140,957,261	289,580,622	0.78%	0.96%	0.87%	0.78%	0.96%	0.87%	0.78%	
2030	136,057,301	129,191,168	265,248,669	143,218,211	135,990,702	279,208,913	150,379,123	142,790,238	293,169,361	1.18%	1.30%	1.24%	1.18%	1.30%	1.24%	1.18%	
2031	137,637,055	130,833,094	268,470,149	144,881,111	137,719,046	282,600,157	152,125,165	144,604,997	296,730,163	1.16%	1.27%	1.21%	1.16%	1.27%	1.21%	1.16%	
2032	139,833,613	133,005,626	272,839,239	147,193,275	140,005,921	287,199,195	154,552,940	147,006,219	301,559,159	1.60%	1.66%	1.63%	1.60%	1.66%	1.63%	1.60%	
2033	140,730,675	134,022,114	274,757,789	148,137,548	141,081,173	289,218,721	155,544,430	148,135,231	303,679,661	0.64%	0.77%	0.70%	0.64%	0.77%	0.70%	0.64%	
2034	142,717,863	135,610,781	277,882,644	149,759,855	142,748,191	292,508,047	157,247,849	149,885,602	307,333,161	1.10%	1.18%</						



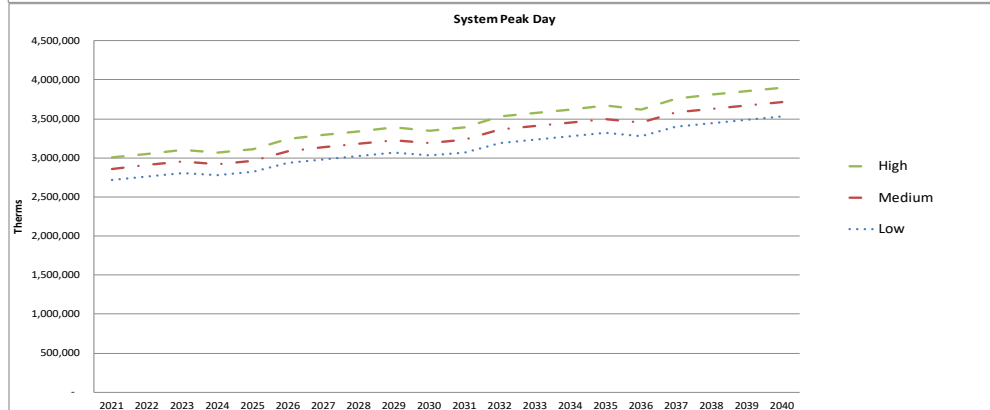
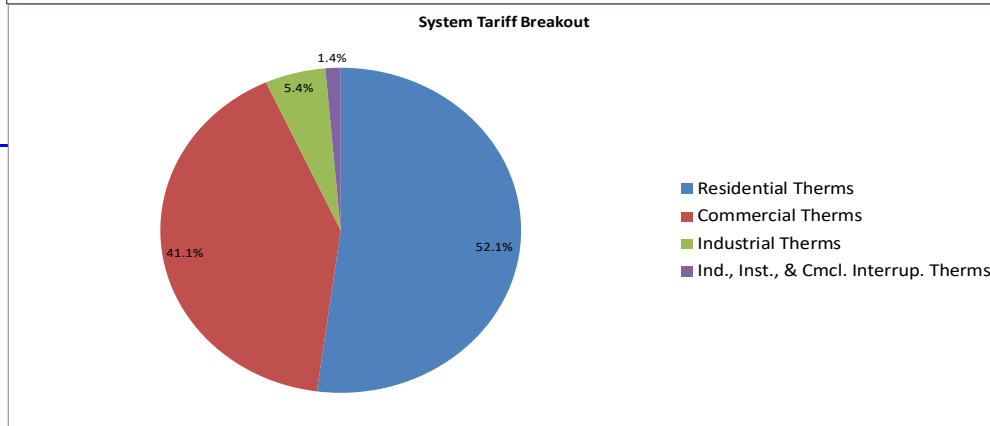
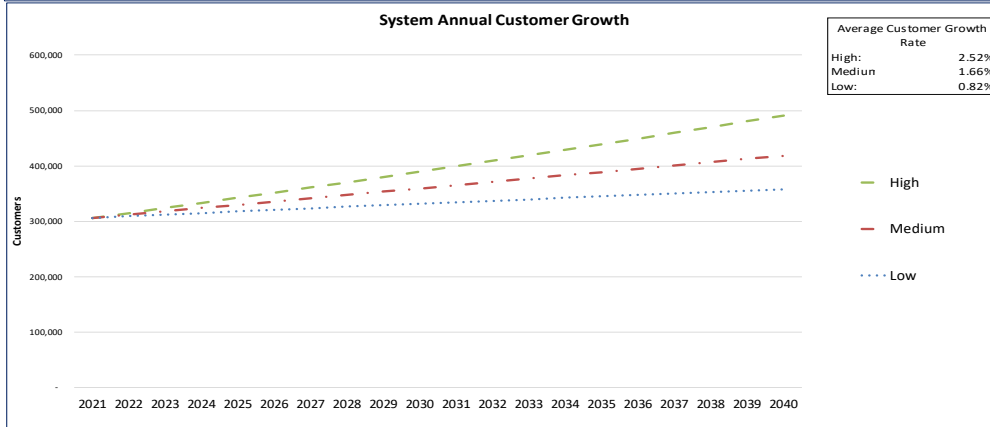
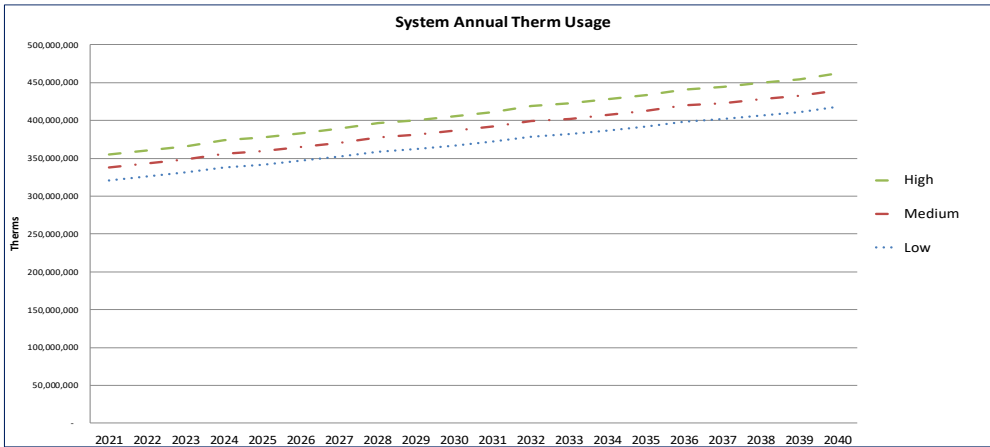
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Oregon																										
Annual Requirements (Therms)																										
Low									Medium									High								
Heating			Baseload			Total			Heating			Baseload			Total			Heating			Baseload			Total		
2021	60,457,331	25,160,168	85,617,499	64,644,767	25,478,916	90,123,683	72,719,041	21,910,826	94,629,867	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	61,179,239	25,711,005	87,430,244	65,994,856	26,036,981	92,031,836	74,218,940	22,414,488	96,633,428	2.09%	2.19%	2.12%	2.09%	2.19%	2.12%	2.06%	2.12%	2.06%	2.12%	2.19%	2.12%	2.06%	2.30%	2.12%	2.12%	
2023	63,033,833	26,204,617	89,238,450	67,390,295	26,544,916	93,935,210	75,781,716	22,850,254	98,631,970	2.13%	2.19%	2.07%	2.11%	1.95%	2.07%	2.11%	1.94%	2.06%	2.11%	1.94%	2.06%	2.11%	1.94%	2.07%	2.12%	
2024	64,775,467	26,753,098	91,528,565	69,245,638	27,100,221	96,345,858	77,880,662	23,282,488	101,163,150	2.76%	2.09%	2.57%	2.75%	2.09%	2.57%	2.77%	1.89%	2.47%	2.77%	1.89%	2.47%	1.89%	2.57%	2.77%	2.77%	
2025	65,710,776	27,170,819	92,881,595	70,245,866	27,524,233	97,770,099	79,029,602	23,629,004	102,658,606	1.44%	1.56%	1.48%	1.44%	1.56%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%
2026	67,017,370	27,676,982	94,694,352	71,636,542	28,041,722	99,678,264	80,588,561	24,073,617	104,662,179	1.99%	1.86%	1.95%	1.88%	1.95%	1.88%	1.95%	1.97%	1.88%	1.95%	1.88%	1.95%	1.88%	1.95%	1.88%	1.95%	
2027	68,260,817	28,247,126	96,507,943	72,968,328	28,618,982	101,587,310	82,061,468	24,605,260	106,666,674	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	
2028	69,990,100	28,801,912	98,792,012	74,808,243	29,183,350	103,991,593	84,075,435	25,117,740	109,191,175	2.53%	1.96%	2.37%	2.52%	1.97%	2.37%	2.52%	2.07%	2.37%	2.52%	2.07%	2.37%	2.52%	2.07%	2.37%	2.52%	
2029	70,741,640	29,402,212	100,143,852	75,613,302	29,801,280	105,414,581	85,043,653	25,641,657	110,685,309	1.07%	2.08%	1.37%	1.08%	2.12%	1.37%	1.15%	2.09%	1.37%	1.15%	2.09%	1.37%	1.15%	2.09%	1.37%	2.09%	
2030	72,120,674	29,838,366	101,959,040	77,084,791	30,240,515	107,325,306	86,712,592	25,978,979	112,691,571	1.95%	1.48%	1.81%	1.95%	1.48%	1.81%	1.95%	1.78%	1.81%	1.95%	1.78%	1.81%	1.95%	1.78%	1.81%	1.95%	
2031	73,526,356	30,247,684	103,774,039	78,583,172	30,652,660	109,235,831	88,384,578	26,314,044	114,697,622	1.95%	1.37%	1.78%	1.94%	1.36%	1.78%	1.93%	1.78%	1.93%	1.78%	1.93%	1.78%	1.93%	1.78%	1.93%	1.78%	
2032	75,280,926	30,849,475	106,130,401	80,451,426	31,264,786	111,716,212	90,427,472	26,874,551	117,302,024	2.39%	1.99%	2.27%	2.38%	2.00%	2.27%	2.31%	2.13%	2.27%	2.31%	2.13%	2.27%	2.31%	2.13%	2.27%	2.31%	
2033	75,989,692	31,406,543	107,396,235	81,220,313	31,828,354	113,048,667	91,305,755	27,395,346	118,701,102	0.94%	1.81%	1.19%	0.96%	1.80%	1.19%	0.97%	1.94%	1.19%	0.97%	1.94%	1.19%	0.97%	1.94%	1.19%	0.97%	
2034	77,310,520	31,901,568	109,212,088	82,622,700	32,337,393	114,960,093	92,875,728	27,832,370	120,708,098	1.74%	1.58%	1.69%	1.73%	1.60%	1.69%	1.72%	1.60%	1.69%	1.72%	1.60%	1.69%	1.72%	1.60%	1.69%	1.72%	
2035	78,535,755	32,511,338	111,047,093	83,926,097	32,965,577	116,891,674	94,370,059	28,366,199	122,736,259	1.58%	1.91%	1.68%	1.58%	1.97%	1.68%	1.68%	1.63%	1.68%	1.63%	1.68%	1.63%	1.68%	1.63%	1.68%	1.63%	
2036	80,590,140	32,851,505	113,441,646	86,112,190	33,300,069	119,412,258	96,802,144	28,590,726	125,382,970	2.62%	1.05%	2.16%	2.62%	1.05%	2.16%	2.62%	2.58%	2.16%	2.58%	2.16%	2.58%	2.16%	2.58%	2.16%	2.58%	
2037	81,328,463	33,360,633	114,689,095	86,905,357	33,820,005	120,725,363	97,733,546	29,028,087	126,761,633	0.92%	1.55%	1.10%	0.92%	1.56%	1.10%	0.96%	1.57%	1.10%	0.96%	1.57%	1.10%	0.96%	1.57%	1.10%	0.96%	
2038	82,558,491	33,948,651	116,507,143	88,223,356	34,415,558	122,639,094	99,186,510	29,584,540	128,771,050	1.51%	1.76%	1.59%	1.52%	1.76%	1.59%	1.49%	1.52%	1.76%	1.59%	1.49%	1.52%	1.76%	1.59%	1.49%	1.52%	
2039	83,789,706	34,516,447	118,306,153	89,540,963	34,991,825	124,532,788	100,637,567	30,121,859	130,759,426	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	
2040	85,618,204	35,122,177	120,740,382	91,482,496	35,612,644	127,095,140	102,815,064	30,638,834	133,449,898	2.18%	1.75%	2.06%	2.17%	1.77%	2.06%	2.16%	1.70%	2.06%	2.16%	1.70%	2.06%	2.16%	1.70%	2.06%	2.16%	
Peak Day - Baseload																										
Low									Medium									High								
Daily Baseload			Peak			Total			Daily Baseload			Peak			Total			Daily Baseload			Peak			Total		
2021	68,932	723,928	792,860	69,805	764,784	834,590	60,030	816,289	876,319	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	70,441	739,499	809,940	71,334	781,234	852,569	61,410	833,787	895,197	2.19%	2.15%	2.15%	2.19%	2.15%	2.15%	2.30%	2.15%	2.15%	2.30%	2.15%	2.15%	2.30%	2.15%	2.15%	2.30%	
2023	71,793	755,198	826,992	72,726	797,792	870,518	62,603	851,440	914,044	1.92%	2.12%	2.11%	1.95%	2.12%	2.11%	1.94%	2.12%	2.11%	1.94%	2.12%	2.11%	1.94%	2.12%	2.11%	1.94%	
2024	73,296	756,687	829,984	74,247	798,788	873,035	63,788	852,899	916,687	2.09%	1.17%	2.29%	2.09%	1.17%	2.29%	1.89%	1.17%	2.29%	1.89%	1.17%	2.29%	1.89%	1.17%	2.29%	1.89%	
2025	74,441	771,206	845,647	75,409	815,266	890,675	64,737	870,493	935,230	1.56%	2.07%	2.02%	1.56%	2.07%	2.02%	1.49%	2.07%	2.02%	1.49%	2.07%	2.02%	1.49%	2.07%	2.02%	1.49%	
2026	75,827	802,955	878,783	76,827	848,208	925,034	65,955	905,331	971,286	1.86%	4.05%	3.86%	1.86%	4.05%	3.86%	1.86%	4.05%	3.86%	1.86%	4.05%	3.86%	1.86%	4.05%	3.86%	1.86%	4.05%
2027	77,389	818,480	895,870	78,408	864,613	943,021	67,412	922,760	990,172	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.06%	
2028	78,909	834,631	913,540	79,954	881,667	961,621	68,810	940,892	1,009,702	1.96%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	
2029	80,554	850,087	930,641	81,647	897,975	979,622	70,251	958,352	1,028,603	2.08%	1.85%	1.87%	2.08%	1.85%	1.87%	2.08%	1.85%	1.87%	2.08%	1.85%	1.87%	2.08%	1.85%	1.87%	2.08%	
2030	81,749	848,934	930,683	82,851	896,815	979,666	71,175	957,474	1,028,649	1.48%	-0.14%	0.00%	1.47%	-0.13%	0.00%	1.32%	-0.09%	0.00%	1.32%	-0.09%	0.00%	1.32%	-0.09%	0.00%	1.32%	
2031	82,870	864,602	947,472	83,980	913,359	997,339	72,091	975,115	1,047,206	1.37%	1.85%	1.80%	1.36%	1.84%	1.80%	1.29%	1.84%	1.80%	1.29%	1.84%	1.80%	1.29%	1.84%	1.80%	1.29%	
2032	84,519	898,021	982,540	85,657	948,596	1,034,252	73,629	1,012,336	1,085,965	1.99%	3.87%	3.70%	2.00%	3.86%	3.70%	2.13%	3.82%	3.70%	2.13%	3.82%	3.70%	2.13%	3.82%	3.70%	2.13%	
2033	86,045	913,598	999,643	87,201	965,055	1,052,256	75,056	1,029,813	1,104,869	1.81%	1.73%	1.74%	1.80%	1.74%	1.74%	1.94%	1.73%	1.74%	1.94%	1.73%	1.74%	1.94%	1.73%	1.74%		
2034	87,402	929,339	1,016,741	88,596	981,658	1,070,253	76,253	1,047,513	1,123,766	1.58%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	
2035	89,072	944,763	1,033,835	90,317	997,930	1,088,247	77,716	1,064,944	1,142,659	1.91%	1.66%	1.68%	1.94%	1.66%	1.68%	1.92%	1.66%	1.68%	1.92%	1.66%	1.68%	1.92%	1.66%	1.68%	1.92%	
2036	90,004	942,663	1,032,668	91,233	995,785	1,087,018	78,303	1,063,066	1,141,369	1.05%	-0.22%	-0.11%	1.01%	-0.21%	-0.11%	0.76%	-0.18%	-0.11%	0.76%	-0.18%	-0.11%	0.76%	-0.18%	-0.11%	0.76%	
2037	91,399	977,266	1,068,665	92,658	1,032,253	1,124,911	79,529	1,101,628	1,181,157	1.55%	3.67%	3.49%	1.56%	3.66%	3.49%	1.57%	3.63%	3.49%	1.57%	3.63%	3.49%	1.57%	3.63%	3.49%	1.57%	
2038	93,010	992,755	1,085,765	94,289	1,048,622	1,142,911	81,054	1,119,003	1,200,556	1.76%	1.58%	1.60%	1.76%	1.59%	1.60%	1.92%	1.58%	1.60%	1.92%	1.58%	1.60%	1.92%	1.58%	1.60%		
2039	94,566	1,008,297	1,																							



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with columns for System, Annual Requirements (Therms), Annual Change, Peak Day - Baseload, Therms Usage by Class, and Customer Count Forecast. The table is organized into multiple sections, each with a sub-header and detailed data rows for years 2021 through 2040.



**Appendix B
Demand Forecast
Expected Scenario**

7th Day School	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,675	9,678	9,745	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,936	28,929	28,931	29,107	28,926	28,928	28,931	29,107	28,926	28,928
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.23%	0.25%	0.67%	-0.15%	0.26%	0.26%	0.63%	-0.11%	0.26%
Residential Therms	51,861	52,057	52,242	52,488	52,688	52,900	53,114	53,531	53,552	53,773
Commercial Therms	30,307	30,303	30,303	30,429	30,307	30,307	30,307	30,420	30,307	30,307
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	82,168	82,360	82,545	83,117	82,995	83,207	83,422	83,961	83,859	84,081
Daily BaseLoad Therms	56	56	56	56	56	57	57	57	57	57
Peak Day Therms	760	762	764	764	754	770	772	774	776	766
Therms Per Residential Customer	762	766	757	764	764	767	770	765	765	768
Therms Per Commercial Customer	3,367	3,367	3,367	3,381	3,367	3,367	3,367	3,380	3,367	3,367
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	68	68	69	69	69	69	69	70	70	70
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	77	77	78	78	78	78	78	79	79	79
Arlington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.13%	1.08%	1.52%	0.67%	-1.09%	1.08%	1.43%	0.68%	1.04%
Residential Therms	3,263,894	3,283,034	3,301,946	3,335,991	3,341,377	3,361,194	3,380,903	3,413,388	3,420,056	3,439,645
Commercial Therms	2,060,211	2,098,373	2,134,907	2,181,204	2,210,144	2,248,426	2,286,501	2,332,639	2,362,164	2,400,007
Industrial Therms	427,119	434,690	441,980	451,249	456,990	464,629	472,227	481,445	487,316	494,868
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,751,224	5,816,097	5,878,834	5,968,444	6,008,511	6,074,249	6,139,631	6,227,472	6,269,536	6,334,520
Daily BaseLoad Therms	5,298	5,408	5,475	5,490	5,514	5,583	5,698	5,797	5,870	5,893
Peak Day Therms	45,907	46,413	46,894	46,021	46,503	48,402	48,902	49,422	49,920	48,946
Therms Per Residential Customer	673	672	671	674	670	669	669	670	667	666
Therms Per Commercial Customer	3,247	3,238	3,229	3,234	3,214	3,209	3,202	3,207	3,190	3,184
Therms Per Industrial Customer	14,728	14,989	15,785	16,116	16,321	16,594	16,865	17,831	18,049	18,328
Residential Customers	4,849	4,883	4,918	4,953	4,988	5,022	5,057	5,092	5,127	5,162
Commercial Customers	635	648	661	674	688	701	714	727	741	754
Industrial Customers	29	29	28	28	28	28	28	27	27	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,512	5,560	5,607	5,655	5,703	5,751	5,799	5,846	5,894	5,942
Athens	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.10%	2.13%	2.51%	1.66%	2.00%	1.98%	2.13%	1.72%	1.83%
Residential Therms	303,043	306,208	309,578	314,210	316,439	319,795	323,224	327,209	330,049	333,243
Commercial Therms	129,978	131,076	132,271	134,044	134,721	135,908	137,125	138,602	139,542	140,709
Industrial Therms	31,824	37,339	42,885	48,642	54,005	59,546	65,092	70,809	76,234	81,756
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	464,845	474,623	484,735	496,895	505,166	515,249	525,441	536,621	545,826	555,809
Daily BaseLoad Therms	179	192	163	162	179	182	195	181	211	165
Peak Day Therms	3,710	3,797	3,883	3,550	3,628	4,154	4,240	4,340	4,426	4,030
Therms Per Residential Customer	572	570	568	568	564	563	561	560	558	556
Therms Per Commercial Customer	1,945	1,939	1,940	1,940	1,922	1,914	1,909	1,910	1,905	1,899
Therms Per Industrial Customer	31,824	21,337	21,443	24,321	27,003	20,416	21,697	23,603	25,411	20,439
Residential Customers	530	538	545	553	561	569	576	584	592	599
Commercial Customers	67	68	68	69	70	71	72	73	73	74
Industrial Customers	1	2	2	2	2	3	3	3	3	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	598	607	616	624	633	642	651	660	668	678
Baker	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.06%	1.06%	1.57%	0.56%	1.04%	1.03%	1.47%	0.58%	1.01%
Residential Therms	2,287,110	2,304,943	2,323,096	2,353,464	2,359,720	2,377,532	2,395,134	2,423,683	2,430,041	2,447,223
Commercial Therms	1,592,517	1,607,151	1,622,116	1,645,511	1,652,523	1,667,494	1,682,465	1,704,961	1,712,482	1,727,453
Industrial Therms	147,804	157,877	167,936	178,785	188,889	199,683	210,915	222,867	234,287	246,393
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,027,431	4,069,971	4,113,148	4,177,760	4,201,132	4,244,709	4,288,514	4,351,512	4,376,809	4,421,069
Daily BaseLoad Therms	2,100	2,137	2,172	2,221	2,240	2,276	2,314	2,356	2,409	2,445
Peak Day Therms	39,086	39,451	39,817	39,221	39,576	40,929	41,294	41,675	42,040	41,361
Therms Per Residential Customer	673	673	673	676	672	672	672	671	671	671
Therms Per Commercial Customer	3,074	3,074	3,075	3,093	3,078	3,080	3,082	3,096	3,086	3,087
Therms Per Industrial Customer	49,268	52,626	55,979	59,595	62,963	66,561	70,305	74,289	78,096	82,131
Residential Customers	3,397	3,426	3,454	3,483	3,511	3,539	3,567	3,594	3,622	3,649
Commercial Customers	518	523	528	532	537	541	546	551	555	560
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,918	3,951	3,985	4,018	4,051	4,083	4,116	4,148	4,180	4,212

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Bend Loop										
Total Therms Pct. Growth		2.74%	2.64%	3.11%	1.99%	2.45%	2.39%	2.84%	1.79%	2.23%
Residential Therms	27,125,613	27,994,299	28,861,136	29,887,296	30,603,300	31,472,216	32,341,399	33,316,834	34,083,361	34,953,348
Commercial Therms	12,640,082	12,875,013	13,079,520	13,353,397	13,491,705	13,697,231	13,902,919	14,117,525	14,315,529	14,521,121
Industrial Therms	735,998	761,900	787,609	816,925	839,639	865,809	892,043	921,876	944,713	971,142
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	40,521,693	41,631,212	42,728,255	44,057,618	44,934,644	46,035,255	47,136,361	48,476,235	49,343,603	50,446,231
Daily Baseload Therms	31,119	32,011	32,833	33,660	34,373	35,192	36,077	36,989	37,861	38,613
Peak Day Therms	394,954	405,608	416,239	422,162	432,697	448,315	458,981	469,772	480,450	485,576
Therms Per Residential Customer	763	763	764	768	765	765	765	769	766	766
Therms Per Commercial Customer	2,930	2,931	2,931	2,945	2,930	2,930	2,929	2,943	2,928	2,928
Therms Per Industrial Customer	21,437	20,922	20,502	20,213	19,795	19,493	19,184	19,008	18,707	18,469
Residential Customers	35,553	36,670	37,786	38,905	40,023	41,142	42,261	43,383	44,503	45,623
Commercial Customers	4,321	4,392	4,463	4,534	4,604	4,674	4,747	4,818	4,889	4,960
Industrial Customers	34	36	38	40	42	44	47	49	51	53
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	39,908	41,099	42,287	43,479	44,670	45,862	47,054	48,249	49,443	50,636
Bremerton (Shelton)										
Total Therms Pct. Growth		1.51%	1.49%	1.91%	1.02%	1.42%	1.40%	1.80%	0.95%	1.35%
Residential Therms	23,256,997	23,615,362	23,975,726	24,445,305	24,700,175	25,060,603	25,421,031	25,890,300	26,143,338	26,503,766
Commercial Therms	12,442,617	12,646,994	12,851,258	13,110,987	13,261,840	13,466,134	13,670,429	13,929,898	14,079,844	14,284,137
Industrial Therms	441,590	447,452	453,348	461,239	465,202	471,099	476,996	484,874	488,813	494,710
Ind., Inst., & Cmcl. Interup. Therms	1,673,759	1,676,136	1,676,202	1,682,778	1,676,333	1,676,333	1,682,519	1,676,333	1,676,333	1,676,333
Total Core Therms	37,814,963	38,385,943	38,956,534	39,700,309	40,103,550	40,614,169	41,244,768	41,987,591	42,388,328	42,958,947
Daily Baseload Therms	32,984	33,517	34,011	34,481	34,900	35,394	35,925	36,433	36,966	37,422
Peak Day Therms	298,347	302,840	307,310	308,493	312,914	320,905	325,373	330,033	334,502	335,199
Therms Per Residential Customer	680	680	680	682	679	678	678	681	677	677
Therms Per Commercial Customer	3,917	3,915	3,914	3,929	3,911	3,909	3,907	3,921	3,904	3,903
Therms Per Industrial Customer	29,439	29,830	30,223	30,749	31,013	31,407	31,800	32,325	32,588	32,981
Residential Customers	34,179	34,730	35,282	35,835	36,387	36,939	37,491	38,043	38,595	39,147
Commercial Customers	3,176	3,230	3,284	3,337	3,391	3,445	3,499	3,552	3,606	3,660
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	37,372	37,977	38,583	39,189	39,795	40,401	41,006	41,613	42,218	42,824
Brouillette Hop										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,676	9,678	9,745	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,936	28,929	28,931	29,107	28,926	28,928	28,931	29,107	28,926	28,928
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth		2.69%	2.40%	2.86%	1.75%	2.24%	2.12%	2.48%	1.49%	1.88%
Residential Therms	6,322,020	6,502,259	6,648,122	6,867,781	6,995,503	7,160,458	7,319,349	7,507,764	7,624,922	7,773,419
Commercial Therms	4,749,968	4,871,611	4,984,333	5,122,658	5,208,881	5,321,846	5,431,486	5,563,275	5,643,994	5,747,931
Industrial Therms	271,228	273,186	275,197	278,372	279,287	281,317	283,357	284,414	287,448	289,507
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	11,343,216	11,648,056	11,927,651	12,268,811	12,483,671	12,763,622	13,034,213	13,357,455	13,556,364	13,810,857
Daily Baseload Therms	8,810	9,022	8,697	8,755	9,678	9,865	10,044	9,808	10,170	9,776
Peak Day Therms	72,544	74,404	76,079	75,504	77,098	81,516	83,123	85,171	86,710	85,171
Therms Per Residential Customer	522	519	515	514	507	504	501	499	494	490
Therms Per Commercial Customer	4,000	3,995	3,989	4,004	3,979	3,974	3,967	3,979	3,956	3,951
Therms Per Industrial Customer	20,864	21,014	21,169	21,413	21,484	21,640	21,797	22,032	22,111	22,270
Residential Customers	12,118	12,540	12,957	13,373	13,788	14,204	14,618	15,031	15,442	15,852
Commercial Customers	1,188	1,220	1,250	1,279	1,309	1,339	1,369	1,398	1,427	1,455
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,319	13,773	14,219	14,665	15,110	15,556	16,000	16,442	16,882	17,320
Castle Rock										
Total Therms Pct. Growth		0.21%	0.20%	0.62%	-0.22%	0.20%	0.20%	0.65%	-0.25%	0.20%
Residential Therms	35,613	36,046	36,475	37,088	37,335	37,766	38,197	38,830	39,063	39,496
Commercial Therms	140,445	140,388	140,315	140,798	140,153	140,079	140,004	140,530	139,855	139,779
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	176,058	176,433	176,790	177,886	177,488	177,845	178,202	179,360	178,918	179,275
Daily Baseload Therms	242	242	242	243	243	243	243	243	244	244
Peak Day Therms	1,174	1,177	1,179	1,201	1,204	1,188	1,191	1,194	1,197	1,218
Therms Per Residential Customer	482	474	464	457	448	440	433	428	420	414
Therms Per Commercial Customer	2,926	2,925	2,923	2,933	2,920	2,918	2,917	2,928	2,914	2,912
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	74	76	79	81	83	86	88	91	93	95
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	122	124	127	129	131	134	136	139	141	143

**Appendix B
Demand Forecast
Expected Scenario**

Chemult	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.08%	0.07%	0.58%	-0.44%	0.07%	0.06%	0.58%	-0.46%	0.05%
Residential Therms	13,484	13,525	13,565	13,670	13,643	13,679	13,715	13,815	13,779	13,809
Commercial Therms	41,324	41,327	41,327	41,540	41,325	41,325	41,325	41,543	41,325	41,325
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	54,808	54,851	54,892	55,211	54,968	55,005	55,040	55,358	55,105	55,134
Daily Baseload Therms	44	44	44	44	44	44	44	44	44	44
Peak Day Therms	397	397	397	399	399	398	398	399	399	400
Therms Per Residential Customer	519	520	522	526	525	526	527	531	530	511
Therms Per Commercial Customer	2,066	2,066	2,066	2,077	2,066	2,066	2,066	2,077	2,066	2,066
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	26	26	26	26	26	26	26	26	26	27
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	46	46	46	46	46	46	46	46	46	47
Dehawn Dairy	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%
Residential Therms	3,863	3,863	3,863	3,875	3,863	3,863	3,863	3,875	3,863	3,863
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,863	3,863	3,863	3,875	3,863	3,863	3,863	3,875	3,863	3,863
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	1,932	1,932	1,932	1,937	1,932	1,932	1,932	1,937	1,932	1,932
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.05%	0.14%	0.70%	-0.31%	0.15%	0.15%	0.45%	-0.17%	0.15%
Residential Therms	14,686	14,674	14,674	14,753	14,687	14,686	14,686	14,730	14,685	14,684
Commercial Therms	95,834	95,901	96,052	96,748	96,463	96,634	96,803	97,260	97,118	97,285
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	110,520	110,575	110,726	111,501	111,150	111,320	111,489	111,990	111,803	111,969
Daily Baseload Therms	51	51	42	44	51	52	43	53	44	44
Peak Day Therms	1,079	1,080	1,081	988	989	1,085	1,087	1,088	1,090	996
Therms Per Residential Customer	612	611	611	615	612	612	612	614	612	612
Therms Per Commercial Customer	7,372	7,377	7,389	7,442	7,420	7,453	7,446	7,462	7,471	7,483
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.23%	1.21%	1.63%	0.76%	1.16%	1.15%	1.54%	0.73%	1.11%
Residential Therms	5,497,684	5,570,852	5,644,536	5,743,445	5,792,765	5,866,462	5,940,161	6,038,664	6,087,846	6,161,544
Commercial Therms	3,539,994	3,585,815	3,630,519	3,690,939	3,720,507	3,765,276	3,810,047	3,870,165	3,899,874	3,944,743
Industrial Therms	484,718	483,492	482,303	482,654	480,020	478,831	477,642	477,870	475,322	474,133
Ind., Inst., & Cmcl. Interup. Therms	83,460	83,464	83,464	83,752	83,470	83,470	83,470	83,740	83,470	83,470
Total Core Therms	9,605,856	9,723,623	9,840,822	10,000,791	10,076,762	10,194,039	10,311,339	10,470,438	10,546,512	10,663,890
Daily Baseload Therms	9,025	9,159	9,264	9,336	9,406	9,504	9,636	9,773	9,875	9,945
Peak Day Therms	72,464	73,330	74,196	74,167	75,022	76,861	77,727	78,663	79,529	79,365
Therms Per Residential Customer	641	640	640	643	640	640	640	642	640	639
Therms Per Commercial Customer	3,546	3,540	3,533	3,540	3,519	3,513	3,506	3,514	3,494	3,488
Therms Per Industrial Customer	161,573	161,164	160,768	160,885	160,007	159,610	159,214	159,290	158,441	158,044
Residential Customers	8,581	8,698	8,815	8,933	9,050	9,167	9,284	9,401	9,518	9,635
Commercial Customers	998	1,013	1,028	1,043	1,057	1,072	1,087	1,102	1,116	1,131
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	9,583	9,715	9,847	9,979	10,111	10,242	10,374	10,507	10,638	10,770
Finley	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.34%	1.24%	1.87%	0.66%	1.26%	1.23%	1.75%	0.69%	1.21%
Residential Therms	17,645	17,897	18,148	18,507	18,661	18,920	19,179	19,537	19,700	19,962
Commercial Therms	65,549	66,413	67,206	68,444	68,866	69,707	70,541	71,753	72,216	73,068
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	83,194	84,310	85,354	86,951	87,527	88,627	89,720	91,289	91,916	93,030
Daily Baseload Therms	22	23	7	6	23	24	25	6	14	7
Peak Day Therms	652	659	665	657	663	692	699	713	720	703
Therms Per Residential Customer	579	571	564	558	546	539	532	529	521	516
Therms Per Commercial Customer	5,042	5,109	5,170	5,265	5,297	5,362	5,426	5,519	5,555	5,621
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	31	31	32	33	34	35	36	37	38	39
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	44	44	45	46	47	48	49	50	51	52

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Gilchrist										
Total Therms Pct. Growth		0.89%	0.86%	1.36%	0.29%	0.76%	0.73%	1.20%	0.13%	0.61%
Residential Therms	117,141	118,253	119,330	120,969	121,410	122,386	123,325	124,813	125,052	125,848
Commercial Therms	142,905	144,111	145,303	147,271	147,603	148,683	149,723	151,521	151,632	152,512
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	260,066	262,364	264,633	268,240	269,012	271,069	273,048	276,334	276,684	278,361
Daily Baseload Therms	145	146	147	149	150	151	152	153	154	155
Peak Day Therms	2,053	2,070	2,088	2,101	2,118	2,139	2,154	2,170	2,183	2,190
Therms Per Residential Customer	620	626	631	638	640	644	649	657	658	661
Therms Per Commercial Customer	3,107	3,133	3,092	3,133	3,140	3,163	3,119	3,157	3,159	3,177
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	189	189	189	190	190	190	190	190	190	191
Commercial Customers	46	46	47	47	47	47	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	235	235	236	237	237	237	238	238	238	239
Grandview										
Total Therms Pct. Growth		6.67%	6.27%	6.17%	5.19%	5.06%	4.72%	4.49%	4.02%	3.86%
Residential Therms	567,714	574,453	581,476	591,069	595,669	602,386	609,004	617,011	621,744	627,877
Commercial Therms	2,198,877	2,379,657	2,560,572	2,747,302	2,918,464	3,091,718	3,261,545	3,429,134	3,589,127	3,747,019
Industrial Therms	42,901	42,873	42,871	43,128	42,901	42,900	42,899	43,073	42,898	42,901
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,809,492	2,996,983	3,184,920	3,381,499	3,557,034	3,737,004	3,913,448	4,089,218	4,253,769	4,417,797
Daily Baseload Therms	1,905	2,030	2,851	3,061	3,214	2,663	2,751	3,811	4,033	4,219
Peak Day Therms	13,944	14,505	15,061	13,300	13,704	16,743	17,262	17,836	18,328	15,651
Therms Per Residential Customer	567	566	566	569	566	566	565	566	564	563
Therms Per Commercial Customer	11,533	12,245	12,949	13,646	14,248	14,840	15,397	15,925	16,401	16,853
Therms Per Industrial Customer	4,290	4,287	4,287	4,313	4,290	4,290	4,290	4,307	4,290	4,290
Residential Customers	1,002	1,014	1,027	1,039	1,052	1,065	1,077	1,090	1,102	1,115
Commercial Customers	191	194	198	201	205	208	212	215	219	222
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,202	1,219	1,235	1,251	1,267	1,283	1,299	1,315	1,331	1,347
Hermiston										
Total Therms Pct. Growth		1.31%	1.32%	1.84%	0.80%	1.27%	1.26%	1.68%	0.80%	1.21%
Residential Therms	2,303,187	2,345,095	2,387,721	2,444,231	2,473,981	2,516,634	2,559,287	2,614,292	2,644,768	2,687,422
Commercial Therms	3,021,697	3,061,548	3,102,306	3,158,837	3,184,933	3,225,695	3,266,475	3,320,880	3,348,246	3,388,983
Industrial Therms	183,175	183,131	183,131	184,096	183,175	183,176	183,176	184,006	183,175	183,176
Ind., Inst., & Cncl. Interup. Therms	708,608	708,377	708,377	711,642	708,608	708,608	708,609	711,179	708,608	708,608
Total Core Therms	6,216,667	6,298,150	6,381,535	6,498,806	6,550,698	6,634,113	6,717,547	6,830,357	6,884,797	6,968,189
Daily Baseload Therms	6,108	6,175	6,250	6,370	6,416	6,491	6,558	6,619	6,740	6,822
Peak Day Therms	47,177	47,800	48,421	47,184	47,780	50,432	51,052	51,825	52,445	50,905
Therms Per Residential Customer	532	532	531	534	530	530	529	531	528	528
Therms Per Commercial Customer	3,951	3,951	3,952	3,972	3,955	3,956	3,957	3,974	3,959	3,940
Therms Per Industrial Customer	22,897	22,891	22,891	23,012	22,897	22,897	22,897	23,001	22,897	22,897
Residential Customers	4,326	4,411	4,496	4,581	4,666	4,751	4,836	4,921	5,006	5,091
Commercial Customers	765	775	785	795	805	815	825	836	846	856
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,100	5,195	5,290	5,385	5,480	5,575	5,671	5,766	5,861	5,956
Huntington										
Total Therms Pct. Growth		2.37%	2.33%	2.94%	1.67%	2.23%	2.22%	2.77%	1.61%	2.15%
Residential Therms	65,871	67,132	68,404	70,115	71,011	72,313	73,631	75,372	76,309	77,667
Commercial Therms	29,373	30,369	31,370	32,593	33,415	34,444	35,500	36,786	37,659	38,756
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	95,244	97,501	99,774	102,708	104,426	106,757	109,131	112,158	113,968	116,422
Daily Baseload Therms	9	10	10	10	10	10	11	11	11	11
Peak Day Therms	1,069	1,093	1,118	1,125	1,149	1,195	1,220	1,248	1,274	1,278
Therms Per Residential Customer	492	493	495	500	498	499	500	505	503	504
Therms Per Commercial Customer	1,826	1,786	1,751	1,786	1,743	1,722	1,690	1,678	1,674	1,673
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	134	136	138	140	143	145	147	149	152	154
Commercial Customers	16	17	18	18	19	20	21	22	23	23
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	150	153	156	159	162	165	168	171	174	177

**Appendix B
Demand Forecast
Expected Scenario**

LDS Church	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,324	5,323	5,323	5,347	5,323	5,323	5,323	5,347	5,323	5,323
Commercial Therms	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189	5,161	5,161
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	10,485	10,484	10,484	10,535	10,484	10,484	10,484	10,535	10,484	10,484
Daily BaseLoad Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	60	60	60	60	60	60	60	60	60	60
Therms Per Residential Customer	1,331	1,331	1,331	1,337	1,331	1,331	1,331	1,337	1,331	1,331
Therms Per Commercial Customer	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189	5,161	5,161
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5

Longview South Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,186,084	1,186,798	1,217,832	1,253,801	1,280,412	1,311,442	1,342,467	1,377,721	1,404,633	1,435,634
Commercial Therms	4,519,432	4,575,960	4,633,741	4,709,297	4,750,932	4,808,746	4,866,560	4,938,862	4,982,431	5,040,245
Industrial Therms	198,359	194,569	190,839	187,717	183,404	179,687	175,973	172,676	168,526	164,629
Ind., Inst., & Cncl. Interup. Therms	88,753	88,713	88,706	89,042	88,695	88,723	88,757	89,003	88,727	88,710
Total Core Therms	5,962,629	6,045,040	6,131,118	6,239,857	6,303,444	6,385,598	6,473,757	6,576,262	6,644,316	6,729,417
Daily BaseLoad Therms	5,049	5,117	3,557	3,935	5,404	5,457	5,408	3,819	4,703	4,243
Peak Day Therms	58,844	59,668	60,471	59,631	60,410	62,997	63,798	64,724	65,525	64,421
Therms Per Residential Customer	553	551	550	550	547	546	545	546	543	542
Therms Per Commercial Customer	4,855	4,841	4,829	4,835	4,806	4,795	4,784	4,788	4,763	4,752
Therms Per Industrial Customer	15,258	14,967	14,680	14,440	14,108	13,822	13,536	13,283	12,964	12,679
Residential Customers	2,092	2,154	2,216	2,278	2,339	2,401	2,462	2,524	2,586	2,647
Commercial Customers	931	945	960	974	989	1,003	1,017	1,032	1,046	1,061
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	3,037	3,113	3,189	3,266	3,342	3,418	3,494	3,570	3,646	3,722

Madras	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	716,845	727,350	738,095	753,141	759,966	770,876	781,787	796,543	803,600	814,538
Commercial Therms	1,243,304	1,255,160	1,267,405	1,286,587	1,292,450	1,304,882	1,317,315	1,335,808	1,342,180	1,354,644
Industrial Therms	919,981	929,044	938,392	953,225	957,481	966,973	976,464	990,820	995,428	1,004,943
Ind., Inst., & Cncl. Interup. Therms	293,016	292,939	292,939	294,556	293,016	293,016	293,016	294,401	293,016	293,016
Total Core Therms	3,173,146	3,204,493	3,236,831	3,287,510	3,302,913	3,335,748	3,368,582	3,417,573	3,434,224	3,467,140
Daily BaseLoad Therms	1,561	1,595	1,614	1,614	1,615	1,634	1,670	1,704	1,723	1,723
Peak Day Therms	27,361	27,646	27,932	27,353	27,634	28,789	29,079	29,359	29,650	29,633
Therms Per Residential Customer	541	536	531	530	523	519	515	509	506	506
Therms Per Commercial Customer	3,256	3,277	3,293	3,322	3,331	3,351	3,369	3,400	3,405	3,421
Therms Per Industrial Customer	5,110	5,164	5,213	5,295	5,319	5,371	5,428	5,504	5,530	5,580
Residential Customers	1,325	1,357	1,389	1,421	1,452	1,484	1,516	1,548	1,579	1,611
Commercial Customers	382	383	385	386	388	389	391	393	394	396
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,726	1,759	1,793	1,826	1,859	1,892	1,926	1,959	1,992	2,026

McCleary (Aberdeen/Hoquiam)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,598,665	2,622,637	2,647,398	2,714,881	2,738,023	2,772,832	2,807,641	2,852,996	2,877,402	2,912,225
Commercial Therms	3,245,974	3,261,841	3,278,822	3,309,943	3,314,107	3,331,065	3,348,049	3,375,952	3,382,180	3,399,274
Industrial Therms	216,701	214,439	212,246	210,885	207,927	205,739	203,552	201,955	199,169	196,984
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,061,360	6,108,917	6,158,467	6,235,709	6,260,057	6,309,627	6,359,262	6,430,904	6,458,750	6,508,483
Daily BaseLoad Therms	5,690	5,717	4,718	4,844	5,846	5,875	5,901	4,927	5,651	5,002
Peak Day Therms	38,021	38,334	38,647	37,042	37,339	39,698	40,010	40,439	40,751	38,936
Therms Per Residential Customer	708	706	704	705	701	699	697	698	694	693
Therms Per Commercial Customer	4,512	4,504	4,501	4,515	4,494	4,488	4,485	4,493	4,475	4,471
Therms Per Industrial Customer	16,669	16,495	16,327	16,222	15,994	15,826	15,658	15,535	15,321	15,153
Residential Customers	3,672	3,731	3,790	3,849	3,909	3,968	4,027	4,086	4,145	4,204
Commercial Customers	719	724	729	733	738	742	747	751	756	760
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,404	4,468	4,532	4,596	4,659	4,723	4,786	4,850	4,914	4,978

Milton-Freewater	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	110,325	111,519	112,751	114,653	115,269	116,502	117,734	119,547	120,214	121,447
Commercial Therms	316,907	321,836	326,883	333,615	337,137	342,188	347,240	353,674	357,367	362,418
Industrial Therms	19,248	18,574	17,907	17,341	16,581	15,914	15,246	14,650	13,915	13,247
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	446,480	451,929	457,541	465,609	468,987	474,604	480,220	487,871	491,496	497,112
Daily BaseLoad Therms	373	374	366	372	398	403	404	394	413	402
Peak Day Therms	5,103	5,167	5,231	5,126	5,188	5,424	5,488	5,554	5,618	5,499
Therms Per Residential Customer	445	440	436	434	428	424	421	419	413	410
Therms Per Commercial Customer	2,957	2,948	2,940	2,948	2,927	2,921	2,914	2,919	2,901	2,895
Therms Per Industrial Customer	4,529	4,370	4,213	4,080	3,901	3,744	3,587	3,447	3,274	3,117
Residential Customers	248	254	259	264	270	275	280	285	291	296
Commercial Customers	107	109	111	113	115	117	119	121	123	125
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	359	367	374	381	389	396	403	411	418	425

**Appendix B
Demand Forecast
Expected Scenario**

Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.85%	0.84%	1.23%	0.43%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	125,639	126,645	126,250	127,414	127,470	128,076	128,681	129,855	129,901	130,507
Commercial Therms	418,883	422,892	426,869	432,507	434,832	438,809	442,786	448,499	450,753	454,730
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	543,922	548,537	553,120	559,921	562,302	566,885	571,468	578,355	580,654	585,237
Daily Baseload Therms	549	553	558	563	567	572	577	582	587	591
Peak Day Therms	5,992	6,042	6,092	6,146	6,196	6,241	6,291	6,341	6,391	6,446
Therms Per Residential Customer	568	568	568	569	566	566	566	569	566	566
Therms Per Commercial Customer	9,309	9,311	9,246	9,202	9,059	8,994	8,921	8,970	8,955	8,902
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	221	222	224	225	226	227	228	229	231
Commercial Customers	45	45	46	47	48	48	49	50	50	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	265	267	269	271	273	275	276	278	280	282

Moses Lake	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.44%	0.37%	0.82%	-0.17%	0.34%	0.31%	0.69%	-0.11%	0.28%
Residential Therms	301,792	303,522	305,021	308,035	307,719	309,147	310,469	313,100	313,006	314,228
Commercial Therms	2,314,414	2,327,776	2,338,923	2,360,574	2,358,573	2,369,061	2,378,558	2,396,996	2,396,782	2,405,554
Industrial Therms	116,601	113,442	110,823	108,690	106,213	103,722	101,433	99,665	97,023	94,899
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,732,807	2,744,740	2,754,767	2,771,299	2,772,505	2,781,930	2,790,459	2,809,762	2,808,811	2,814,681
Daily Baseload Therms	2,637	2,644	2,661	2,690	2,701	2,716	2,719	2,709	2,736	2,762
Peak Day Therms	16,985	17,023	17,049	16,647	16,659	17,191	17,209	17,308	17,325	16,823
Therms Per Residential Customer	421	423	424	428	427	429	430	433	433	434
Therms Per Commercial Customer	6,048	6,070	6,091	6,138	6,124	6,144	6,155	6,199	6,185	6,200
Therms Per Industrial Customer	14,575	14,180	13,853	13,586	13,277	12,965	12,679	12,458	12,128	11,862
Residential Customers	717	718	719	720	721	722	722	723	723	724
Commercial Customers	383	384	384	385	385	386	386	387	388	388
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,108	1,110	1,111	1,112	1,113	1,115	1,116	1,117	1,119	1,120

Moxee (Beauchene)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	644,256	655,937	667,687	682,652	690,930	702,177	713,201	726,973	734,429	744,680
Commercial Therms	533,345	561,642	589,857	620,666	645,467	672,483	698,953	727,643	749,964	774,583
Industrial Therms	643,034	633,876	624,895	616,972	606,996	598,368	589,937	582,486	573,627	565,658
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,820,636	1,851,455	1,882,439	1,920,290	1,943,392	1,973,027	2,002,091	2,037,102	2,058,020	2,084,921
Daily Baseload Therms	315	349	396	502	525	374	397	439	579	593
Peak Day Therms	10,977	11,239	11,497	11,419	11,663	12,359	12,999	12,945	13,172	12,903
Therms Per Residential Customer	592	587	582	580	573	568	564	562	556	552
Therms Per Commercial Customer	8,432	8,652	8,903	9,184	9,321	9,550	9,685	9,922	9,977	10,147
Therms Per Industrial Customer	52,138	50,710	49,992	49,031	47,921	46,931	45,969	44,807	43,293	42,424
Residential Customers	1,089	1,117	1,147	1,177	1,207	1,236	1,264	1,293	1,321	1,349
Commercial Customers	63	65	66	68	69	70	72	73	75	76
Industrial Customers	12	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,165	1,195	1,226	1,257	1,289	1,319	1,349	1,379	1,410	1,439

North Bend	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		4.26%	4.15%	4.70%	3.19%	3.66%	3.54%	4.01%	2.82%	3.23%
Residential Therms	5,247	5,439	5,628	5,863	6,017	6,214	6,413	6,656	6,824	7,030
Commercial Therms	191,527	200,158	208,926	219,180	226,617	235,318	244,032	254,194	261,740	270,538
Industrial Therms	10,370	10,368	10,368	10,444	10,376	10,371	10,373	10,428	10,375	10,379
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	207,139	215,966	224,923	235,487	243,010	251,903	260,819	271,278	278,939	287,947
Daily Baseload Therms	34	33	33	34	34	34	34	33	34	34
Peak Day Therms	3,375	3,533	3,690	3,740	3,895	4,161	4,320	4,475	4,633	4,666
Therms Per Residential Customer	1,312	1,360	1,407	1,466	1,504	1,553	1,603	1,664	1,706	1,758
Therms Per Commercial Customer	2,238	2,214	2,195	2,199	2,169	2,154	2,141	2,144	2,121	2,109
Therms Per Industrial Customer	5,185	5,184	5,184	5,222	5,188	5,186	5,187	5,214	5,188	5,189
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	86	90	95	100	105	109	114	119	123	128
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	92	96	101	106	111	115	120	125	129	134

Nyssa-Ontario	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.03%	1.03%	1.53%	0.51%	1.00%	0.99%	1.45%	0.50%	0.96%
Residential Therms	2,127,117	2,152,106	2,177,386	2,214,783	2,228,428	2,253,715	2,279,002	2,315,998	2,329,739	2,355,026
Commercial Therms	2,578,437	2,612,089	2,646,081	2,694,004	2,714,572	2,748,575	2,782,577	2,830,099	2,850,725	2,884,728
Industrial Therms	474,140	478,146	482,213	487,718	489,944	494,036	498,126	503,425	506,307	510,400
Ind., Inst., & Cmcl. Interup. Therms	913,777	913,649	913,651	913,270	913,777	913,778	913,780	918,012	913,777	913,778
Total Core Therms	6,093,471	6,155,990	6,219,330	6,314,775	6,346,721	6,410,105	6,473,486	6,567,534	6,600,548	6,663,932
Daily Baseload Therms	3,853	3,880	3,922	3,962	3,985	4,006	4,030	4,046	4,094	4,142
Peak Day Therms	43,914	44,369	44,824	44,546	44,991	46,322	46,776	47,370	47,824	47,357
Therms Per Residential Customer	553	553	553	556	552	552	552	555	552	551
Therms Per Commercial Customer	2,725	2,726	2,726	2,740	2,728	2,729	2,728	2,743	2,730	2,731
Therms Per Industrial Customer	20,105	19,717	19,161	18,879	18,488	18,130	17,685	17,510	17,163	16,873
Residential Customers	3,843	3,891	3,938	3,986	4,034	4,081	4,129	4,176	4,224	4,271
Commercial Customers	946	958	971	983	995	1,007	1,020	1,032	1,044	1,056
Industrial Customers	24	24	25	26	27	27	28	29	30	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,814	4,874	4,935	4,996	5,056	5,117	5,178	5,238	5,299	5,359

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Othello										
Total Therms Pct. Growth		0.71%	0.65%	0.89%	0.35%	0.62%	0.67%	1.03%	0.36%	0.62%
Residential Therms	628,859	630,107	631,274	635,301	633,676	634,813	636,055	640,191	638,613	639,794
Commercial Therms	1,378,172	1,393,252	1,407,102	1,424,723	1,435,793	1,449,238	1,464,039	1,483,415	1,494,848	1,508,839
Industrial Therms	211,336	211,336	211,336	212,249	211,336	211,336	211,335	212,249	211,336	211,336
Ind., Inst., & Cmcl. Interup. Therms	86,069	86,068	86,068	86,383	86,069	86,069	86,069	86,381	86,069	86,069
Total Core Therms	2,304,436	2,320,762	2,335,780	2,358,656	2,366,874	2,381,456	2,397,499	2,422,236	2,430,866	2,446,038
Daily Baseload Therms	1,722	1,736	1,749	1,765	1,779	1,791	1,805	1,824	1,839	1,851
Peak Day Therms	12,495	12,563	12,625	12,652	12,721	12,806	12,872	13,000	13,002	13,039
Therms Per Residential Customer	570	569	567	568	564	562	561	562	558	556
Therms Per Commercial Customer	4,504	4,490	4,467	4,459	4,429	4,407	4,393	4,389	4,367	4,347
Therms Per Industrial Customer	23,482	23,482	23,482	23,583	23,482	23,482	23,482	23,583	23,482	23,482
Residential Customers	1,103	1,108	1,114	1,119	1,124	1,129	1,135	1,140	1,145	1,151
Commercial Customers	306	310	315	320	324	329	333	338	342	347
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,419	1,429	1,439	1,448	1,458	1,468	1,478	1,488	1,498	1,508
Patterson										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	41	50	58	66	75	84	92	100	109	118
Commercial Therms	305,623	305,459	305,458	306,050	305,623	305,623	305,623	305,722	305,621	305,621
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	305,664	305,509	305,516	306,116	305,698	305,707	305,716	305,822	305,730	305,740
Daily Baseload Therms	151	154	150	148	151	151	152	152	148	147
Peak Day Therms	359	361	362	362	361	361	363	359	360	360
Therms Per Residential Customer	41	50	58	66	75	84	92	100	109	118
Therms Per Commercial Customer	61,125	61,092	61,092	61,210	61,125	61,125	61,125	61,144	61,124	61,124
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	2,883,913	2,914,407	2,945,310	2,992,060	3,007,818	3,038,730	3,069,642	3,115,714	3,131,723	3,162,635
Commercial Therms	2,394,799	2,412,937	2,431,416	2,462,062	2,468,876	2,487,361	2,505,846	2,535,770	2,542,954	2,561,439
Industrial Therms	157,896	157,886	157,894	158,796	157,897	157,893	157,900	158,747	157,928	157,922
Ind., Inst., & Cmcl. Interup. Therms	671,445	671,343	671,343	674,022	671,445	671,445	671,445	673,818	671,445	671,445
Total Core Therms	6,108,054	6,156,572	6,205,963	6,286,940	6,306,036	6,355,430	6,404,833	6,484,049	6,504,050	6,553,441
Daily Baseload Therms	4,722	4,765	4,798	4,801	4,826	4,869	4,918	4,965	4,989	4,996
Peak Day Therms	63,067	63,578	64,088	63,773	64,277	65,695	66,205	66,792	67,302	66,869
Therms Per Residential Customer	561	560	558	560	555	554	554	556	559	549
Therms Per Commercial Customer	3,112	3,103	3,093	3,100	3,076	3,068	3,059	3,065	3,043	3,035
Therms Per Industrial Customer	26,316	26,314	26,316	26,466	26,316	26,315	26,317	26,468	26,321	26,320
Residential Customers	5,138	5,207	5,277	5,346	5,415	5,484	5,553	5,622	5,691	5,760
Commercial Customers	769	778	786	794	803	811	819	827	836	844
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,915	5,992	6,070	6,147	6,224	6,302	6,379	6,456	6,534	6,611
Plymouth										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,675	9,678	9,745	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,936	28,929	28,931	29,107	28,926	28,928	28,931	29,107	28,926	28,928
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,659,364	1,710,914	1,762,868	1,825,691	1,867,476	1,919,420	1,971,347	2,033,851	2,075,393	2,127,284
Commercial Therms	1,760,717	1,786,280	1,812,250	1,848,776	1,864,825	1,890,827	1,916,844	1,952,515	1,969,022	1,995,049
Industrial Therms	424,459	425,031	425,695	428,796	427,131	427,803	428,477	431,298	429,834	430,516
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,844,540	3,922,225	4,000,813	4,103,263	4,159,433	4,238,050	4,316,668	4,417,664	4,474,249	4,552,849
Daily Baseload Therms	2,500	2,520	2,567	2,686	2,736	2,785	2,801	2,826	2,908	2,991
Peak Day Therms	37,175	37,938	38,701	38,439	39,182	41,000	41,763	42,536	43,299	42,908
Therms Per Residential Customer	604	603	603	606	602	602	602	605	601	601
Therms Per Commercial Customer	3,304	3,298	3,295	3,309	3,287	3,284	3,279	3,292	3,272	3,268
Therms Per Industrial Customer	13,264	13,282	13,303	13,400	13,348	13,369	13,390	13,478	13,432	13,454
Residential Customers	2,747	2,835	2,923	3,011	3,100	3,188	3,276	3,364	3,452	3,540
Commercial Customers	533	542	550	559	567	576	585	593	602	610
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,312	3,409	3,505	3,602	3,699	3,796	3,892	3,989	4,086	4,182

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sedro-Woolley Loop										
Total Thems Pct. Growth		0.77%	0.79%	1.23%	0.36%	0.79%	0.76%	1.19%	0.38%	0.78%
Residential Thems	17,539,642	17,678,500	17,820,378	18,045,428	18,109,032	18,254,191	18,400,241	18,623,705	18,695,313	18,844,626
Commercial Thems	9,919,291	10,002,014	10,086,528	10,215,157	10,258,561	10,345,029	10,432,028	10,560,863	10,607,907	10,696,651
Industrial Thems	1,125,547	1,125,407	1,125,406	1,129,381	1,125,547	1,125,546	1,125,545	1,129,104	1,125,547	1,125,546
Ind., Inst., & Cmcl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	28,584,500	28,805,921	29,032,312	29,387,966	29,493,139	29,724,766	29,957,814	30,313,672	30,428,767	30,667,023
Daily Baseload Thems	27,012	27,139	25,881	25,454	27,842	27,972	28,104	27,266	27,731	26,385
Peak Day Thems	167,769	168,975	170,189	168,470	169,678	174,349	175,598	177,330	178,601	176,316
Thems Per Residential Customer	656	652	648	647	641	638	635	634	629	626
Thems Per Commercial Customer	2,971	2,969	2,967	2,979	2,966	2,965	2,964	2,976	2,964	2,964
Thems Per Industrial Customer	12,541	12,401	12,200	12,144	11,953	11,745	11,624	11,434	11,293	11,172
Residential Customers	26,752	27,124	27,496	27,870	28,242	28,615	28,987	29,360	29,733	30,105
Commercial Customers	3,338	3,369	3,399	3,429	3,459	3,489	3,519	3,549	3,579	3,609
Industrial Customers	90	91	92	93	94	96	97	99	100	101
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	30,180	30,584	30,988	31,391	31,795	32,199	32,603	33,008	33,411	33,815
South Hermiston										
Total Thems Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Thems	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Thems	9,678	9,677	9,678	9,745	9,675	9,676	9,678	9,745	9,675	9,676
Industrial Thems	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	28,936	28,929	28,931	29,107	28,926	28,928	28,931	29,107	28,926	28,928
Daily Baseload Thems	6	6	6	6	6	6	6	6	6	6
Peak Day Thems	222	222	222	223	223	222	222	222	222	222
Thems Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Thems Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Thems Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Thems Pct. Growth		1.95%	1.93%	2.43%	1.35%	1.83%	1.79%	2.24%	1.26%	1.70%
Residential Thems	237,016	242,703	248,427	255,491	259,938	265,664	271,389	278,445	282,860	288,586
Commercial Thems	85,615	86,234	86,864	87,934	88,139	88,771	89,402	90,445	90,664	91,295
Industrial Thems	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	322,631	328,937	335,291	343,425	348,078	354,434	360,790	368,890	373,524	379,881
Daily Baseload Thems	134	136	139	142	145	148	150	147	152	153
Peak Day Thems	2,797	2,854	2,911	2,909	2,965	3,076	3,133	3,184	3,241	3,240
Thems Per Residential Customer	670	668	665	667	661	659	658	659	654	653
Thems Per Commercial Customer	2,400	2,336	2,286	2,250	2,199	2,161	2,124	2,095	2,045	2,006
Thems Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	354	364	373	383	393	403	413	423	432	442
Commercial Customers	36	37	38	39	40	41	42	43	44	46
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	389	400	411	422	433	444	455	466	477	488
Stearns (Sunriver)										
Total Thems Pct. Growth		0.99%	0.98%	1.47%	0.47%	0.95%	0.95%	1.44%	0.43%	0.92%
Residential Thems	3,879,886	3,928,359	3,976,739	4,046,126	4,073,703	4,122,151	4,170,609	4,241,236	4,267,740	4,316,228
Commercial Thems	1,140,793	1,142,846	1,144,860	1,151,656	1,148,856	1,150,870	1,152,884	1,159,833	1,156,920	1,158,934
Industrial Thems	44,925	44,774	44,560	44,519	44,130	43,915	43,700	43,658	43,270	43,055
Ind., Inst., & Cmcl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	5,065,605	5,115,979	5,166,159	5,242,300	5,266,689	5,316,936	5,367,193	5,444,726	5,467,930	5,518,216
Daily Baseload Thems	5,576	5,618	5,658	5,714	5,753	5,792	5,835	5,900	5,936	5,972
Peak Day Thems	41,683	42,110	42,535	43,097	43,524	43,854	44,279	44,747	45,174	45,699
Thems Per Residential Customer	1,024	1,024	1,024	1,029	1,024	1,024	1,024	1,030	1,024	1,024
Thems Per Commercial Customer	5,195	5,195	5,204	5,213	5,198	5,202	5,193	5,224	5,198	5,197
Thems Per Industrial Customer	14,975	14,925	14,853	14,840	14,710	14,638	14,567	14,553	14,423	14,352
Residential Customers	3,790	3,837	3,884	3,931	3,978	4,025	4,072	4,119	4,166	4,213
Commercial Customers	220	220	220	221	221	221	222	222	223	223
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,013	4,060	4,107	4,155	4,202	4,250	4,297	4,344	4,392	4,439
Sumas SPE Loop										
Total Thems Pct. Growth		0.99%	1.02%	1.45%	0.62%	1.02%	1.02%	1.36%	0.68%	1.02%
Residential Thems	32,057,722	32,320,540	32,596,014	33,020,609	33,165,809	33,450,560	33,738,440	34,149,157	34,323,061	34,620,453
Commercial Thems	16,876,423	17,059,433	17,249,782	17,514,876	17,642,206	17,838,967	18,037,892	18,297,468	18,441,966	18,647,463
Industrial Thems	1,972,772	2,028,983	2,086,441	2,151,658	2,203,881	2,263,276	2,323,323	2,389,533	2,445,245	2,507,276
Ind., Inst., & Cmcl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	50,906,917	51,408,956	51,932,237	52,687,143	53,011,897	53,552,802	54,099,655	54,836,157	55,210,272	55,775,192
Daily Baseload Thems	28,947	29,244	13,774	14,164	30,208	30,523	30,838	14,507	20,480	15,088
Peak Day Thems	476,417	481,430	486,493	474,142	479,147	501,020	506,308	510,618	514,020	503,971
Thems Per Residential Customer	698	694	691	691	685	682	679	679	674	671
Thems Per Commercial Customer	3,084	3,057	3,033	3,022	2,989	2,968	2,948	2,938	2,910	2,893
Thems Per Industrial Customer	24,506	24,227	23,982	23,863	23,592	23,413	23,233	23,162	22,960	22,845
Residential Customers	45,945	46,568	47,191	47,816	48,441	49,066	49,691	50,319	50,946	51,573
Commercial Customers	5,472	5,580	5,687	5,795	5,903	6,011	6,120	6,228	6,337	6,446
Industrial Customers	81	84	87	90	93	97	100	103	107	110
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	51,498	52,231	52,966	53,702	54,438	55,174	55,911	56,650	57,389	58,129

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sunnyside										
Total Therms Pct. Growth		1.52%	1.50%	1.93%	0.97%	1.37%	1.33%	1.70%	0.82%	1.19%
Residential Therms	1,081,354	1,098,026	1,114,734	1,137,150	1,147,734	1,163,725	1,179,400	1,200,249	1,209,600	1,224,375
Commercial Therms	1,751,875	1,780,031	1,808,248	1,844,715	1,884,013	1,891,020	1,917,492	1,951,417	1,968,527	1,993,140
Industrial Therms	655,871	663,944	672,165	682,741	688,462	696,330	704,042	713,720	718,920	726,090
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,489,011	3,542,000	3,595,146	3,664,606	3,700,209	3,751,075	3,800,935	3,865,486	3,897,047	3,943,404
Daily Baseload Therms	2,613	2,635	2,674	2,751	2,782	2,849	2,849	2,872	2,927	2,974
Peak Day Therms	23,664	24,021	24,374	24,164	24,500	25,447	25,777	26,142	26,456	26,714
Therms Per Residential Customer	547	547	547	550	547	547	547	549	545	544
Therms Per Commercial Customer	3,264	3,265	3,261	3,278	3,263	3,256	3,256	3,265	3,248	3,244
Therms Per Industrial Customer	38,575	38,865	37,342	37,930	38,248	38,685	37,886	37,564	37,838	38,215
Residential Customers	1,976	2,006	2,036	2,067	2,097	2,128	2,158	2,188	2,219	2,249
Commercial Customers	537	545	555	563	571	580	589	598	606	615
Industrial Customers	17	17	18	18	18	18	19	19	19	19
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,529	2,568	2,609	2,647	2,686	2,725	2,765	2,805	2,844	2,883
Umatilla										
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.81%	1.21%	1.19%	1.61%	0.74%	1.15%
Residential Therms	432,169	445,766	459,350	475,372	486,571	500,154	513,737	530,085	540,974	554,557
Commercial Therms	486,423	495,696	504,955	516,692	523,505	532,763	542,021	553,984	560,587	569,845
Industrial Therms	984,925	986,258	987,576	992,145	990,193	991,511	992,826	997,469	995,458	996,779
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,903,516	1,927,720	1,951,880	1,984,210	2,000,268	2,024,428	2,048,585	2,081,539	2,097,019	2,121,180
Daily Baseload Therms	2,329	2,350	2,370	2,379	2,398	2,418	2,439	2,452	2,470	2,488
Peak Day Therms	11,004	11,176	11,348	11,588	11,740	11,882	12,054	12,245	12,416	12,641
Therms Per Residential Customer	462	460	458	458	454	452	451	451	448	446
Therms Per Commercial Customer	3,380	3,382	3,381	3,392	3,374	3,370	3,372	3,390	3,370	3,369
Therms Per Industrial Customer	140,704	140,894	141,082	141,735	141,456	141,644	141,832	142,496	142,208	142,397
Residential Customers	936	970	1,004	1,038	1,072	1,106	1,140	1,174	1,208	1,243
Commercial Customers	144	147	149	152	155	158	161	163	166	169
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,087	1,123	1,160	1,197	1,234	1,271	1,308	1,345	1,382	1,419
Walla Walla										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,000,250	7,103,774	7,197,773	7,325,836	7,384,609	7,478,611	7,568,970	7,689,151	7,742,311	7,826,390
Commercial Therms	6,379,907	6,442,665	6,498,956	6,583,972	6,611,092	6,667,301	6,720,957	6,799,273	6,823,224	6,872,466
Industrial Therms	204,006	210,829	217,165	224,392	229,768	236,121	242,299	249,225	254,297	260,178
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	13,584,164	13,757,268	13,913,894	14,134,200	14,225,469	14,382,032	14,532,227	14,737,649	14,819,832	14,959,034
Daily Baseload Therms	11,161	11,230	11,346	11,559	11,687	11,817	11,865	11,901	12,062	12,221
Peak Day Therms	155,865	157,971	159,885	159,316	161,146	165,417	167,224	168,923	170,644	169,811
Therms Per Residential Customer	593	592	590	592	586	586	584	585	580	578
Therms Per Commercial Customer	4,803	4,778	4,752	4,746	4,700	4,675	4,650	4,643	4,600	4,575
Therms Per Industrial Customer	10,737	11,000	10,858	11,081	10,941	10,733	10,972	10,836	10,937	10,841
Residential Customers	11,804	11,999	12,192	12,385	12,577	12,769	12,961	13,152	13,342	13,532
Commercial Customers	1,328	1,348	1,368	1,387	1,407	1,426	1,445	1,464	1,483	1,502
Industrial Customers	19	19	20	20	21	22	22	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,367	13,580	13,792	14,005	14,217	14,428	14,639	14,849	15,058
Wenatchee										
Total Therms Pct. Growth		0.77%	0.89%	1.40%	0.38%	0.84%	0.84%	1.28%	0.44%	0.85%
Residential Therms	598,248	603,041	608,028	616,405	618,232	623,222	628,213	636,081	638,216	643,206
Commercial Therms	3,670,074	3,689,651	3,714,692	3,759,073	3,765,708	3,789,848	3,814,299	3,855,761	3,865,434	3,891,220
Industrial Therms	361,419	372,622	383,928	397,048	406,705	418,016	429,328	442,275	451,990	463,302
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,629,740	4,665,314	4,706,648	4,772,526	4,790,644	4,831,087	4,871,839	4,934,118	4,955,640	4,997,728
Daily Baseload Therms	4,173	4,161	4,203	4,324	4,366	4,408	4,399	4,368	4,463	4,559
Peak Day Therms	32,344	32,575	32,834	31,571	31,815	33,670	33,925	34,257	34,520	33,113
Therms Per Residential Customer	435	433	431	431	427	425	423	424	420	418
Therms Per Commercial Customer	5,301	5,280	5,270	5,285	5,249	5,237	5,226	5,237	5,207	5,198
Therms Per Industrial Customer	25,070	24,841	25,595	25,343	25,419	26,126	25,505	26,016	25,828	25,739
Residential Customers	1,376	1,394	1,412	1,430	1,448	1,466	1,484	1,502	1,519	1,537
Commercial Customers	692	699	705	711	717	724	730	736	742	749
Industrial Customers	14	15	15	16	16	16	17	17	18	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,083	2,108	2,132	2,157	2,181	2,205	2,230	2,255	2,279	2,304
Woodland										
Total Therms Pct. Growth		3.32%	3.29%	3.73%	2.64%	3.00%	2.91%	3.12%	2.47%	2.68%
Residential Therms	450,646	469,334	488,333	510,083	526,789	545,828	564,871	585,837	603,007	622,066
Commercial Therms	791,077	807,792	825,261	847,694	861,148	878,667	896,190	916,434	931,304	948,847
Industrial Therms	690,100	718,780	747,972	780,781	807,115	836,351	865,587	896,907	924,130	953,366
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,931,823	1,995,906	2,061,566	2,138,558	2,195,052	2,260,846	2,326,649	2,399,178	2,458,440	2,524,279
Daily Baseload Therms	2,270	2,333	2,029	2,013	2,780	2,657	2,747	2,396	2,926	2,402
Peak Day Therms	13,534	13,989	14,444	13,124	13,527	15,810	16,265	16,720	17,176	15,542
Therms Per Residential Customer	589	590	592	597	596	598	599	602	602	603
Therms Per Commercial Customer	3,475	3,455	3,435	3,437	3,406	3,389	3,373	3,371	3,344	3,332
Therms Per Industrial Customer	38,697	39,748	39,367	39,367	40,188	39,826	39,645	40,615	40,180	40,001
Residential Customers	765	795	824	854	884	913	943	973	1,002	1,032
Commercial Customers	228	234	240	247	253	259	266	272	279	285
Industrial Customers	18	18	19	20	20	21	22	22	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,011	1,047	1,084	1,121	1,157	1,194	1,231	1,266	1,304	1,341

**Appendix B
Demand Forecast
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Chief Ranch										
Total Therms Pct. Growth		-0.03%	-0.02%	0.11%	-0.05%	-0.04%	-0.03%	0.13%	-0.05%	-0.04%
Residential Therms	336,088	335,992	335,923	336,288	336,114	335,979	335,863	336,305	336,134	335,994
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	336,088	335,992	335,923	336,288	336,114	335,979	335,863	336,305	336,134	335,994
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	168,044	167,996	167,962	168,144	168,057	167,990	167,931	168,152	168,067	167,997
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Loop										
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	12,966,414	13,167,723	13,370,929	13,647,025	13,774,154	13,968,661	14,159,320	14,413,058	14,526,991	14,704,253
Commercial Therms	13,179,609	13,412,326	13,646,794	13,952,094	14,111,810	14,336,243	14,556,237	14,835,748	14,980,341	15,184,878
Industrial Therms	3,212,531	3,320,042	3,427,354	3,550,011	3,639,733	3,742,462	3,843,158	3,955,063	4,037,289	4,130,910
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	29,358,554	29,900,090	30,445,017	31,149,130	31,525,698	32,047,366	32,558,716	33,203,870	33,544,621	34,020,041
Daily Baseload Therms	19,901	20,035	20,439	21,376	21,716	22,098	22,264	22,281	22,960	23,440
Peak Day Therms	256,941	261,571	266,140	261,682	266,003	279,729	284,028	288,389	292,486	286,385
Therms Per Residential Customer	658	659	660	665	662	662	663	666	663	662
Therms Per Commercial Customer	3,695	3,702	3,709	3,735	3,722	3,727	3,730	3,748	3,731	3,731
Therms Per Industrial Customer	36,062	36,186	36,268	36,473	36,246	36,305	36,342	36,480	36,372	36,342
Residential Customers	19,696	19,974	20,253	20,532	20,810	21,089	21,367	21,646	21,925	22,204
Commercial Customers	3,567	3,623	3,679	3,735	3,791	3,847	3,903	3,959	4,015	4,070
Industrial Customers	89	92	95	97	100	103	106	108	111	114
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	23,352	23,689	24,026	24,364	24,702	25,039	25,376	25,713	26,051	26,388

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Training Center										
Total Therms Pct. Growth		0.62%	0.62%	1.22%	0.00%	0.58%	0.57%	1.13%	-0.05%	0.52%
Residential Therms	18,287	18,646	19,005	19,467	19,712	20,056	20,392	20,826	21,040	21,353
Commercial Therms	350,598	352,524	354,456	358,537	358,293	360,140	361,952	365,850	365,443	367,137
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	368,885	371,170	373,461	378,005	378,006	380,195	382,344	386,676	386,483	388,491
Daily Baseload Therms	44	46	47	44	45	45	47	46	47	47
Peak Day Therms	3,519	3,541	3,563	3,554	3,576	3,626	3,646	3,665	3,685	3,674
Therms Per Residential Customer	789	777	781	779	771	771	758	769	751	758
Therms Per Commercial Customer	3,229	3,222	3,230	3,247	3,228	3,230	3,232	3,252	3,234	3,235
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	23	24	24	25	26	26	27	27	28	28
Commercial Customers	109	109	110	110	111	112	112	113	113	114
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	132	133	134	135	137	138	139	140	141	142

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Zillah (Toppenish)										
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.49%	0.72%
Residential Therms	1,049,414	1,054,218	1,063,603	1,077,450	1,079,522	1,086,597	1,092,844	1,102,980	1,107,346	1,113,925
Commercial Therms	1,943,414	1,967,447	1,993,169	2,030,657	2,045,932	2,070,574	2,094,729	2,124,057	2,141,294	2,163,752
Industrial Therms	783,092	782,293	782,262	784,252	783,061	783,061	783,095	784,645	783,061	783,061
Ind., Inst., & Cmcl. Interrup. Therms	66,678	67,032	67,463	68,006	68,226	68,599	69,015	69,403	69,787	70,132
Total Core Therms	3,842,998	3,872,989	3,906,496	3,962,365	3,976,741	4,008,831	4,040,684	4,082,086	4,101,487	4,130,869
Daily Baseload Therms	2,855	2,898	1,127	1,189	3,199	2,892	3,025	1,181	2,318	1,201
Peak Day Therms	34,049	34,353	34,654	30,882	31,140	35,583	35,864	36,190	36,457	32,398
Therms Per Residential Customer	547	546	545	544	544	543	542	543	540	539
Therms Per Commercial Customer	3,742	3,737	3,735	3,755	3,733	3,729	3,725	3,729	3,713	3,705
Therms Per Industrial Customer	32,629	32,596	31,290	31,450	31,322	31,220	31,220	30,179	30,118	30,118
Residential Customers	1,920	1,936	1,952	1,969	1,985	2,001	2,017	2,033	2,049	2,066
Commercial Customers	519	526	534	541	548	555	562	570	577	584
Industrial Customers	24	24	25	25	25	25	25	26	26	26
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,464	2,488	2,512	2,535	2,559	2,582	2,606	2,630	2,653	2,677

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Zone 10										
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,314,967	3,345,764	3,377,763	3,426,421	3,443,197	3,473,859	3,504,292	3,545,807	3,563,016	3,591,175
Commercial Therms	6,414,519	6,651,666	6,890,704	7,158,171	7,366,205	7,595,659	7,820,623	8,057,196	8,254,673	8,464,139
Industrial Therms	1,722,701	1,729,891	1,738,079	1,753,343	1,763,210	1,770,957	1,782,901	1,785,799	1,785,799	1,792,972
Ind., Inst., & Cmcl. Interrup. Therms	66,678	67,032	67,463	68,006	68,226	68,599	69,015	69,403	69,787	70,132
Total Core Therms	11,518,865	11,794,354	12,074,029	12,406,440	12,632,972	12,901,326	13,164,887	13,455,307	13,673,275	13,918,418
Daily Baseload Therms	8,168	8,372	7,484	7,799	10,019	9,219	9,445	8,734	10,164	9,214
Peak Day Therms	76,886	78,128	79,357	72,921	73,935	83,121	84,271	85,579	86,672	78,854
Therms Per Residential Customer	618	617	616	618	614	613	612	613	609	608
Therms Per Commercial Customer	4,619	4,718	4,816	4,934	5,007	5,093	5,168	5,254	5,313	5,378
Therms Per Industrial Customer	29,702	29,783	28,968	29,231	29,256	29,387	29,192	28,756	28,803	28,919
Residential Customers	5,361	5,422	5,483	5,543	5,604	5,665	5,725	5,786	5,847	5,907
Commercial Customers	1,389	1,410	1,431	1,451	1,471	1,491	1,513	1,534	1,554	1,574
Industrial Customers	58	58	60	60	60	60	61	62	62	62
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,809	6,891	6,975	7,055	7,136	7,217	7,300	7,383	7,463	7,544

**Appendix B
Demand Forecast
Expected Scenario**

Zone 11	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.67%	1.66%	2.14%	1.07%	1.52%	1.47%	1.85%	0.93%	1.32%
Residential Therms	14,252,480	14,470,784	14,691,233	14,991,294	15,120,882	15,340,114	15,547,261	15,823,309	15,947,072	16,140,014
Commercial Therms	18,444,431	18,739,985	19,041,173	19,439,917	19,637,615	19,926,191	20,209,472	20,576,612	20,759,527	21,205,936
Industrial Therms	4,344,104	4,447,614	4,551,217	4,673,476	4,756,849	4,856,227	4,953,770	5,065,889	5,142,616	5,233,977
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	37,041,014	37,658,383	38,283,623	39,104,786	39,523,346	40,122,531	40,710,502	41,464,811	41,849,215	42,399,927
Daily Baseload Therms	25,735	25,909	26,436	27,606	28,023	28,306	28,487	28,540	29,469	30,269
Peak Day Therms	307,993	313,159	318,303	312,429	317,264	333,679	338,503	343,583	348,197	340,342
Therms Per Residential Customer	641	641	642	646	642	643	642	645	642	641
Therms Per Commercial Customer	4,091	4,095	4,101	4,127	4,110	4,113	4,114	4,132	4,114	4,114
Therms Per Industrial Customer	35,656	35,510	35,556	35,517	35,214	35,233	35,030	35,078	34,806	34,662
Residential Customers	22,241	22,567	22,893	23,221	23,548	23,874	24,199	24,525	24,851	25,175
Commercial Customers	4,509	4,577	4,643	4,711	4,778	4,845	4,912	4,979	5,046	5,113
Industrial Customers	122	125	128	132	135	138	141	144	148	151
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	26,872	27,248	27,645	28,063	28,461	28,856	29,253	29,648	30,045	30,439

Zone 20	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	17,450,239	17,861,083	18,246,808	18,732,760	19,024,773	19,419,587	19,808,462	20,288,944	20,573,402	20,954,029
Commercial Therms	19,661,222	20,014,808	20,347,502	20,780,078	21,020,939	21,360,913	21,696,573	22,125,717	22,364,869	22,699,222
Industrial Therms	978,865	987,902	996,653	1,009,856	1,015,448	1,024,976	1,034,688	1,048,412	1,054,054	1,063,966
Ind., Inst., & Cmcl. Interup. Therms	290,381	290,346	290,346	291,594	290,381	290,381	291,523	290,381	290,381	290,381
Total Core Therms	38,380,706	39,154,139	39,881,309	40,814,288	41,351,541	42,095,888	42,830,085	43,754,997	44,262,707	45,007,598
Daily Baseload Therms	33,465	34,005	34,051	34,619	35,888	36,468	37,020	37,055	37,967	37,984
Peak Day Therms	309,140	314,931	320,347	319,626	324,993	337,521	343,015	349,198	354,643	352,480
Therms Per Residential Customer	552	547	542	541	533	529	526	524	518	515
Therms Per Commercial Customer	4,354	4,335	4,314	4,315	4,276	4,259	4,241	4,243	4,209	4,195
Therms Per Industrial Customer	23,875	24,095	23,730	24,044	24,177	24,404	24,635	24,962	24,513	24,743
Residential Customers	31,613	32,631	33,641	34,653	35,664	36,675	37,685	38,694	39,701	40,707
Commercial Customers	4,515	4,617	4,717	4,816	4,916	5,016	5,116	5,215	5,313	5,411
Industrial Customers	41	41	42	42	42	42	42	42	43	43
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	36,171	37,291	38,402	39,513	40,624	41,735	42,845	43,953	45,060	46,163

Zone 24	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,480,099	4,524,180	4,568,886	4,638,361	4,659,159	4,703,560	4,747,767	4,815,053	4,836,089	4,879,916
Commercial Therms	4,200,326	4,249,610	4,299,567	4,372,108	4,400,510	4,450,513	4,500,542	4,571,846	4,600,865	4,650,936
Industrial Therms	621,944	636,023	650,149	666,503	678,832	693,719	709,042	726,292	740,594	756,793
Ind., Inst., & Cmcl. Interup. Therms	913,777	913,649	913,651	918,270	913,777	913,778	913,780	918,012	913,777	913,778
Total Core Therms	10,216,146	10,323,462	10,432,252	10,595,242	10,652,279	10,761,571	10,871,131	11,031,203	11,091,325	11,201,424
Daily Baseload Therms	5,962	6,027	6,104	6,193	6,235	6,291	6,355	6,413	6,515	6,599
Peak Day Therms	84,068	84,914	85,759	84,892	85,716	88,446	89,291	90,294	91,138	89,996
Therms Per Residential Customer	608	607	607	610	606	606	605	608	605	604
Therms Per Commercial Customer	2,838	2,837	2,836	2,851	2,837	2,837	2,836	2,849	2,837	2,838
Therms Per Industrial Customer	23,396	23,340	23,082	23,116	23,011	22,933	22,750	22,875	22,788	22,761
Residential Customers	7,374	7,452	7,531	7,609	7,687	7,765	7,843	7,920	7,997	8,074
Commercial Customers	1,480	1,498	1,516	1,533	1,551	1,569	1,587	1,605	1,622	1,639
Industrial Customers	27	27	28	29	30	30	31	32	33	33
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,882	8,979	9,076	9,172	9,269	9,365	9,461	9,557	9,652	9,747

Zone 26	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,642,414	1,692,240	1,742,721	1,801,071	1,844,444	1,895,155	1,945,644	2,002,525	2,046,849	2,097,352
Commercial Therms	5,756,603	5,829,624	5,904,801	6,003,866	6,057,885	6,133,144	6,208,407	6,359,241	6,359,241	6,434,524
Industrial Therms	888,464	913,354	938,816	968,503	990,524	1,016,043	1,041,565	1,069,589	1,092,661	1,118,200
Ind., Inst., & Cmcl. Interup. Therms	88,753	88,716	88,706	89,042	88,695	88,723	88,757	89,003	88,727	88,710
Total Core Therms	8,376,235	8,523,950	8,675,054	8,862,483	8,981,749	9,133,064	9,284,394	9,462,695	9,587,478	9,738,786
Daily Baseload Therms	7,712	7,846	7,978	8,139	8,578	8,507	8,549	8,610	8,020	7,036
Peak Day Therms	73,932	75,195	76,457	74,150	75,337	80,357	81,618	82,997	84,258	81,379
Therms Per Residential Customer	524	523	523	525	522	522	521	523	521	520
Therms Per Commercial Customer	4,581	4,560	4,541	4,540	4,506	4,488	4,472	4,469	4,439	4,423
Therms Per Industrial Customer	27,060	27,608	27,612	27,804	28,233	28,223	28,278	28,843	28,754	28,795
Residential Customers	3,134	3,234	3,333	3,434	3,533	3,633	3,732	3,832	3,931	4,031
Commercial Customers	1,257	1,278	1,300	1,322	1,344	1,366	1,388	1,410	1,433	1,455
Industrial Customers	33	33	34	35	35	36	37	37	38	39
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,425	4,546	4,669	4,792	4,913	5,036	5,158	5,280	5,403	5,525

Zone 30-S	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	25,855,682	26,247,999	26,643,124	27,160,186	27,438,198	27,833,435	28,228,672	28,743,296	29,020,740	29,415,991
Commercial Therms	15,688,591	15,908,835	16,130,081	16,420,931	16,575,947	16,797,190	17,018,497	17,305,850	17,462,023	17,683,412
Industrial Therms	658,291	661,891	665,594	672,124	673,129	676,838	680,547	686,829	687,962	691,695
Ind., Inst., & Cmcl. Interup. Therms	1,673,759	1,676,136	1,676,202	1,682,778	1,676,333	1,676,333	1,676,333	1,682,519	1,676,333	1,676,333
Total Core Therms	43,876,323	44,494,860	45,115,001	45,936,018	46,363,607	46,983,796	47,604,050	48,418,495	48,847,079	49,467,430
Daily Baseload Therms	38,674	39,233	38,730	39,326	40,747	41,268	41,826	41,360	42,618	42,423
Peak Day Therms	336,389	341,175	345,957	345,535	350,254	360,603	365,383	370,472	375,254	374,135
Therms Per Residential Customer	683	682	682	684	681	680	680	682	679	679
Therms Per Commercial Customer	4,027	4,023	4,020	4,034	4,015	4,011	4,009	4,021	4,003	4,001
Therms Per Industrial Customer	23,510	23,639	23,771	24,004	24,040	24,173	24,305	24,530	24,571	24,703
Residential Customers	37,851	38,461	39,072	39,685	40,296	40,906	41,517	42,129	42,740	43,352
Commercial Customers	3,896	3,954	4,012	4,070	4,129	4,187	4,245	4,304	4,362	4,420
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	41,777	42,446	43,114	43,785	44,454	45,124	45,792	46,463	47,132	47,802

**Appendix B
Demand Forecast
Expected Scenario**

Zone 30-W	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.95%	0.97%	1.40%	0.55%	0.97%	0.97%	1.33%	0.59%	0.96%
Residential Therms	58,480,783	58,972,279	59,485,762	60,267,470	60,533,041	61,057,039	61,584,954	62,351,198	62,652,667	63,193,259
Commercial Therms	32,544,649	32,894,376	33,250,566	33,751,875	33,980,533	34,346,918	34,715,810	35,211,073	35,461,414	35,838,666
Industrial Therms	4,010,658	4,073,074	4,136,633	4,215,445	4,266,939	4,332,783	4,399,239	4,478,455	4,533,931	4,602,324
Ind., Inst., & Cmcl. Interup. Therms	83,640	83,644	83,644	83,752	83,870	83,470	83,470	83,740	83,470	83,470
Total Core Therms	95,119,550	96,026,193	96,956,444	98,318,542	98,863,984	99,820,210	100,783,475	102,124,465	102,731,483	103,717,719
Daily Baseload Therms	70,469	71,137	54,553	54,605	73,140	73,752	74,446	57,505	64,129	57,475
Peak Day Therms	765,091	772,688	780,318	765,249	772,805	803,196	811,105	818,610	826,654	811,084
Therms Per Residential Customer	678	675	672	672	666	663	661	661	656	654
Therms Per Commercial Customer	3,104	3,088	3,074	3,073	3,048	3,036	3,024	3,023	3,002	2,991
Therms Per Industrial Customer	19,733	19,629	19,582	19,592	19,432	19,300	19,225	19,228	19,117	19,057
Residential Customers	86,288	87,435	88,584	89,734	90,883	92,032	93,182	94,336	95,487	96,639
Commercial Customers	10,484	10,651	10,816	10,982	11,147	11,313	11,480	11,647	11,813	11,980
Industrial Customers	203	208	211	215	220	225	229	233	237	242
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	96,977	98,295	99,612	100,932	102,251	103,571	104,892	106,217	107,539	108,861

Zone GTN	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	38,869,086	40,064,001	41,258,746	42,684,737	43,660,971	44,858,202	46,055,680	47,490,209	48,455,244	49,653,488
Commercial Therms	22,010,296	22,355,185	22,690,104	23,148,308	23,367,174	23,703,527	24,040,089	24,490,364	24,715,472	25,052,571
Industrial Therms	3,051,655	3,138,718	3,226,396	3,330,634	3,403,202	3,491,239	3,579,301	3,682,625	3,755,682	3,843,838
Ind., Inst., & Cmcl. Interup. Therms	293,016	292,929	292,939	294,556	293,016	293,016	294,401	293,016	293,016	293,016
Total Core Therms	64,224,054	65,850,844	67,468,184	69,458,235	70,724,363	72,345,985	73,968,086	75,961,599	77,219,414	78,842,913
Daily Baseload Therms	49,583	50,897	52,116	53,408	54,390	55,601	56,962	58,348	59,723	60,788
Peak Day Therms	614,468	630,095	645,695	650,777	666,150	692,759	708,401	724,232	739,886	743,281
Therms Per Residential Customer	768	768	768	772	767	767	767	771	767	767
Therms Per Commercial Customer	3,128	3,127	3,124	3,138	3,120	3,118	3,115	3,128	3,111	3,109
Therms Per Industrial Customer	27,410	27,353	27,381	27,545	27,408	27,382	27,340	27,482	27,397	27,375
Residential Customers	50,620	52,188	53,754	55,323	56,891	58,460	60,029	61,602	63,172	64,743
Commercial Customers	7,036	7,149	7,263	7,377	7,489	7,602	7,717	7,830	7,945	8,059
Industrial Customers	111	115	118	121	124	128	131	134	137	140
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	57,768	59,452	61,135	62,822	64,505	66,191	67,878	69,567	71,254	72,943

Zone ME-OR	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.11%	1.12%	1.61%	0.62%	1.08%	1.07%	1.50%	0.62%	1.04%
Residential Therms	6,157,677	6,248,639	6,340,960	6,467,940	6,527,549	6,619,890	6,712,306	6,836,703	6,897,630	6,999,911
Commercial Therms	6,768,686	6,845,984	6,924,701	7,037,756	7,084,004	7,162,725	7,241,493	7,351,409	7,399,449	7,478,126
Industrial Therms	1,377,068	1,383,188	1,389,393	1,401,021	1,401,851	1,408,039	1,414,239	1,425,682	1,426,711	1,432,879
Ind., Inst., & Cmcl. Interup. Therms	1,380,053	1,379,720	1,379,720	1,385,664	1,380,053	1,380,053	1,380,054	1,384,997	1,380,053	1,380,053
Total Core Therms	15,683,483	15,857,530	16,034,774	16,292,381	16,393,457	16,570,708	16,748,093	16,998,791	17,103,842	17,280,969
Daily Baseload Therms	14,261	14,410	14,506	14,647	14,784	14,934	15,091	15,193	15,410	15,464
Peak Day Therms	136,054	137,560	139,064	137,367	138,829	143,829	145,330	147,096	148,598	146,389
Therms Per Residential Customer	540	539	537	535	535	533	532	533	529	529
Therms Per Commercial Customer	3,568	3,563	3,559	3,571	3,549	3,545	3,540	3,551	3,533	3,529
Therms Per Industrial Customer	52,460	51,229	50,987	51,414	51,444	49,990	50,062	50,467	50,503	48,987
Residential Customers	11,398	11,601	11,803	12,006	12,209	12,411	12,613	12,815	13,018	13,220
Commercial Customers	1,897	1,921	1,946	1,971	1,996	2,021	2,045	2,070	2,094	2,119
Industrial Customers	26	27	27	27	27	28	28	28	28	29
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	13,324	13,551	13,778	14,006	14,234	14,461	14,688	14,916	15,142	15,371

Zone ME-WA	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,000,250	7,103,774	7,197,773	7,325,834	7,384,409	7,478,611	7,568,970	7,689,151	7,742,311	7,826,390
Commercial Therms	6,379,907	6,442,665	6,498,956	6,583,972	6,611,992	6,667,301	6,720,957	6,799,273	6,823,224	6,872,466
Industrial Therms	204,006	210,829	217,165	224,392	229,748	236,121	242,299	249,225	254,297	260,178
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	13,584,164	13,757,268	13,913,894	14,134,204	14,225,469	14,382,032	14,532,227	14,737,649	14,819,832	14,959,034
Daily Baseload Therms	11,161	11,230	11,346	11,559	11,687	11,817	11,865	11,901	12,062	12,221
Peak Day Therms	155,865	157,971	159,855	159,316	161,146	165,417	167,224	168,923	170,644	169,811
Therms Per Residential Customer	593	592	590	592	587	586	584	585	580	578
Therms Per Commercial Customer	4,803	4,778	4,752	4,746	4,700	4,675	4,650	4,643	4,600	4,575
Therms Per Industrial Customer	10,737	11,000	10,858	11,081	10,941	10,733	10,972	10,836	10,937	10,841
Residential Customers	11,804	11,999	12,192	12,385	12,577	12,769	12,961	13,152	13,342	13,532
Commercial Customers	1,328	1,348	1,368	1,387	1,407	1,426	1,445	1,464	1,483	1,502
Industrial Customers	19	19	20	20	21	22	22	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,367	13,580	13,792	14,005	14,217	14,428	14,639	14,849	15,058

Oregon	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.37%	1.81%
Residential Therms	49,506,862	50,836,821	52,168,592	53,791,039	54,847,680	56,181,653	57,515,753	59,141,966	60,188,963	61,523,314
Commercial Therms	32,979,308	33,450,779	33,914,371	34,558,171	34,851,689	35,316,766	35,782,125	36,417,619	36,715,785	37,181,633
Industrial Therms	5,050,666	5,157,929	5,265,937	5,396,158	5,483,885	5,592,997	5,702,582	5,834,599	5,922,987	6,033,511
Ind., Inst., & Cmcl. Interup. Therms	2,586,846	2,586,308	2,586,310	2,598,490	2,586,846	2,586,846	2,586,850	2,597,410	2,586,846	2,586,846
Total Core Therms	90,123,683	92,031,836	93,935,210	96,345,858	97,770,099	99,678,264	101,587,310	103,991,593	105,414,581	107,325,306
Daily Baseload Therms	69,805	71,334	72,726	74,247	75,409	76,827	78,408	79,954	81,447	82,851
Peak Day Therms	834,590	852,549	870,518	873,035	890,695	925,034	943,021	961,621	979,622	979,666
Therms Per Residential Customer	713	714	714	718	714	714	715	715	715	715
Therms Per Commercial Customer	3,167	3,165	3,162	3,176	3,158	3,156	3,153	3,165	3,149	3,146
Therms Per Industrial Customer	30,765	30,520	30,395	30,498	30,312	30,083	29,961	30,075	29,939	29,734
Residential Customers	69,393	71,241	73,087	74,938	76,787	78,635	80,484	82,337	84,186	86,038
Commercial Customers	10,413	10,568	10,725	10,881	11,036	11,192	11,349	11,505	11,661	11,817
Industrial Customers	164	169	173	177	181	186	190	194	198	203
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	79,974	81,982	83,989	86,000	88,008	90,017	92,027	94,040	96,04	

Appendix B
Demand Forecast
Expected Scenario

Washington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.42%	1.39%	1.84%	0.91%	1.33%	1.31%	1.68%	0.87%	1.24%
Residential Therms	127,996,615	129,696,942	131,365,214	133,706,137	134,797,343	136,497,799	138,188,277	140,444,231	141,546,057	143,218,211
Commercial Therms	104,889,922	106,481,959	108,063,782	110,138,809	111,250,217	112,827,315	114,390,241	116,376,298	117,484,971	119,018,364
Industrial Therms	12,807,088	13,024,554	13,244,156	13,517,659	13,688,000	13,906,197	14,123,045	14,381,300	14,551,341	14,763,312
Ind., Inst., & Cmcl. Interup. Therms	2,203,032	2,205,691	2,206,181	2,215,172	2,207,106	2,207,507	2,207,957	2,216,189	2,208,699	2,209,026
Total Core Therms	247,896,857	251,409,146	254,899,334	259,576,777	261,942,667	265,438,817	268,909,620	273,418,018	275,791,068	279,208,913
Daily BaseLoad Therms	195,384	197,733	178,578	181,852	208,081	209,337	211,637	191,703	204,429	196,624
Peak Day Therms	2,025,295	2,053,248	2,080,594	2,049,226	2,075,734	2,163,895	2,191,118	2,219,362	2,246,323	2,208,084
Therms Per Residential Customer	645	643	640	641	636	633	631	631	627	624
Therms Per Commercial Customer	3,831	3,825	3,820	3,832	3,811	3,806	3,800	3,809	3,789	3,784
Therms Per Industrial Customer	25,415	25,434	25,311	25,417	25,313	25,269	25,227	25,256	25,125	25,093
Residential Customers	198,293	201,750	205,198	208,654	212,104	215,554	219,001	222,454	225,900	229,343
Commercial Customers	27,378	27,836	28,287	28,740	29,192	29,645	30,100	30,553	31,004	31,455
Industrial Customers	504	512	523	532	541	550	560	569	579	588
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	226,182	230,104	234,016	237,933	241,844	245,757	249,668	253,583	257,490	261,393
System	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.60%	1.57%	2.03%	1.06%	1.50%	1.47%	1.87%	1.01%	1.40%
Residential Therms	177,503,677	180,533,763	183,553,806	187,496,176	189,645,023	192,679,452	195,704,030	199,586,197	201,735,020	204,741,525
Commercial Therms	137,869,230	139,932,739	141,978,153	144,696,980	146,101,905	148,144,080	150,172,465	152,793,917	154,200,757	156,199,997
Industrial Therms	17,857,755	18,182,483	18,510,094	18,915,817	19,171,885	19,499,194	19,825,628	20,215,899	20,474,328	20,796,823
Ind., Inst., & Cmcl. Interup. Therms	4,789,878	4,791,999	4,792,491	4,813,662	4,793,952	4,794,355	4,794,807	4,813,599	4,795,545	4,795,875
Total Core Therms	338,020,540	343,440,983	348,834,544	355,922,635	359,712,766	365,117,082	370,496,930	377,409,611	381,205,649	386,534,219
Daily BaseLoad Therms	265,189	269,067	251,304	256,099	283,489	286,164	290,046	271,658	286,076	279,474
Peak Day Therms	2,859,884	2,905,816	2,951,112	2,922,261	2,966,429	3,088,929	3,134,139	3,180,984	3,225,945	3,187,750
Therms Per Residential Customer	1,298	1,298	1,299	1,306	1,302	1,303	1,305	1,313	1,309	1,312
Therms Per Commercial Customer	4,224	4,243	4,255	4,295	4,286	4,302	4,316	4,349	4,345	4,357
Therms Per Industrial Customer	51,612	52,115	52,635	53,460	53,695	54,223	54,750	55,549	55,803	56,332
Residential Customers	267,686	272,990	278,285	283,592	288,891	294,189	299,485	304,791	310,086	315,380
Commercial Customers	37,791	38,404	39,012	39,621	40,229	40,837	41,449	42,058	42,665	43,272
Industrial Customers	668	681	697	709	722	736	750	763	777	791
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	306,156	312,086	318,005	323,932	329,852	335,773	341,695	347,623	353,539	359,455

**Appendix B
Demand Forecast
Expected Scenario**

7th Day School	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,930	29,106	28,926	28,929	28,931	29,106	28,926	28,928	28,931	29,107
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	222	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,935	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Therms	53,997	54,442	54,446	54,677	54,919	55,378	55,396	55,638	55,874	56,347
Commercial Therms	30,307	30,429	30,303	30,303	30,307	30,429	30,307	30,307	30,303	30,425
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	84,305	84,871	84,749	84,981	85,226	85,807	85,703	85,945	86,177	86,772
Daily BaseLoad Therms	57	57	58	58	58	58	58	58	59	59
Peak Day Therms	768	783	785	787	789	799	794	796	798	801
Therms Per Residential Customer	771	778	767	770	774	780	780	773	776	783
Therms Per Commercial Customer	3,367	3,381	3,367	3,367	3,367	3,381	3,367	3,367	3,367	3,381
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	70	70	71	71	71	71	71	72	72	72
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	79	79	80	80	80	80	80	81	81	81
Arlington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Therms	3,459,084	3,493,071	3,496,419	3,515,217	3,534,651	3,568,228	3,571,439	3,589,701	3,607,090	3,640,722
Commercial Therms	2,437,559	2,484,640	2,510,673	2,546,988	2,583,567	2,629,823	2,654,661	2,689,940	2,724,494	2,770,824
Industrial Therms	502,362	511,776	516,937	524,183	531,488	540,736	545,666	552,706	559,597	568,856
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,399,005	6,489,487	6,524,029	6,586,389	6,649,706	6,738,788	6,771,766	6,832,348	6,891,181	6,980,402
Daily BaseLoad Therms	5,914	6,017	6,128	6,195	6,266	6,219	6,283	6,398	6,511	6,566
Peak Day Therms	49,424	51,422	51,903	52,380	52,852	51,787	53,810	54,272	54,733	55,222
Therms Per Residential Customer	666	668	664	663	663	664	661	660	659	661
Therms Per Commercial Customer	3,178	3,184	3,164	3,158	3,152	3,157	3,138	3,131	3,123	3,129
Therms Per Industrial Customer	18,606	18,955	19,862	20,161	20,442	20,798	20,987	22,108	22,384	22,754
Residential Customers	5,196	5,231	5,266	5,301	5,335	5,370	5,404	5,439	5,474	5,508
Commercial Customers	771	780	792	807	820	833	846	859	872	885
Industrial Customers	27	27	26	26	26	26	26	25	25	25
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,990	6,039	6,085	6,133	6,181	6,229	6,276	6,323	6,371	6,419
Athens	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Therms	336,610	341,183	343,196	346,570	350,231	354,622	356,798	360,236	363,362	367,978
Commercial Therms	141,865	143,600	144,173	145,369	146,691	148,360	149,013	150,231	151,316	153,067
Industrial Therms	87,274	93,164	98,311	103,873	109,525	115,425	120,557	126,105	131,558	137,665
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	565,749	577,947	585,680	595,812	606,447	618,406	626,348	636,573	646,236	658,710
Daily BaseLoad Therms	194	208	222	186	228	206	209	223	238	195
Peak Day Therms	4,107	4,698	4,783	4,869	4,954	4,523	5,141	5,226	5,311	5,414
Therms Per Residential Customer	554	555	551	550	549	549	546	545	544	544
Therms Per Commercial Customer	1,889	1,889	1,874	1,874	1,873	1,874	1,861	1,855	1,845	1,852
Therms Per Industrial Customer	21,819	23,291	21,067	20,775	21,905	23,085	20,966	21,018	21,926	22,944
Residential Customers	607	615	622	630	638	646	653	661	669	676
Commercial Customers	75	76	77	78	79	80	81	82	83	83
Industrial Customers	4	4	5	5	5	5	6	6	6	6
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	686	695	704	713	721	730	739	748	757	765
Baker	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Therms	2,464,196	2,493,406	2,497,148	2,513,624	2,530,392	2,559,229	2,562,511	2,578,226	2,593,145	2,621,727
Commercial Therms	1,742,424	1,766,022	1,772,026	1,786,989	1,802,383	1,826,274	1,832,407	1,847,378	1,861,905	1,886,082
Industrial Therms	258,937	272,790	285,138	298,694	312,935	328,415	342,144	357,311	372,796	389,622
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,465,557	4,532,218	4,554,312	4,599,308	4,645,710	4,713,918	4,737,061	4,782,914	4,827,846	4,897,431
Daily BaseLoad Therms	2,466	2,511	2,552	2,593	2,650	2,719	2,719	2,763	2,807	2,874
Peak Day Therms	41,714	43,150	43,514	43,877	44,241	43,508	44,984	45,347	45,710	46,089
Therms Per Residential Customer	670	673	670	669	669	672	669	669	668	671
Therms Per Commercial Customer	3,088	3,106	3,093	3,093	3,098	3,115	3,102	3,105	3,107	3,124
Therms Per Industrial Customer	86,312	90,930	95,046	99,565	104,312	109,472	114,048	119,104	124,265	129,874
Residential Customers	3,676	3,702	3,729	3,755	3,780	3,806	3,831	3,856	3,881	3,905
Commercial Customers	564	569	573	578	582	586	591	595	599	604
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,243	4,274	4,305	4,335	4,365	4,395	4,425	4,454	4,483	4,512

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Bend Loop										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.50%	1.42%	1.90%	1.65%	2.36%
Residential Therms	35,633,546	36,885,355	37,543,183	38,433,485	39,308,329	40,388,033	41,053,468	41,934,822	42,791,750	43,891,295
Commercial Therms	14,728,018	15,010,519	15,140,017	15,346,461	15,554,731	15,841,834	15,949,211	16,176,228	16,381,632	16,673,622
Industrial Therms	997,412	1,028,281	1,050,561	1,077,099	1,103,807	1,135,031	1,157,191	1,183,939	1,210,625	1,242,525
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	51,549,176	52,924,154	53,753,761	54,857,044	55,966,867	57,365,698	58,179,869	59,284,989	60,384,007	61,807,442
Daily Baseload Therms	39,310	40,230	41,133	41,958	42,836	43,456	44,277	45,190	46,108	47,016
Peak Day Therms	496,137	512,625	523,312	534,000	544,689	549,240	566,216	576,916	587,619	598,472
Therms Per Residential Customer	766	771	767	767	767	771	768	768	768	772
Therms Per Commercial Customer	2,927	2,942	2,926	2,926	2,925	2,940	2,925	2,924	2,924	2,938
Therms Per Industrial Customer	18,277	18,146	17,882	17,706	17,544	17,440	17,229	17,097	16,952	16,924
Residential Customers	46,744	47,868	48,989	50,110	51,231	52,356	53,478	54,600	55,723	56,849
Commercial Customers	5,032	5,103	5,174	5,246	5,317	5,388	5,460	5,532	5,603	5,675
Industrial Customers	55	57	59	61	63	65	67	69	71	73
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	51,830	53,027	54,222	55,416	56,611	57,809	59,005	60,201	61,398	62,597
Bremerton (Shelton)										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	26,864,196	27,344,297	27,584,139	27,944,505	28,307,359	28,793,765	29,029,728	29,290,157	29,747,973	30,240,616
Commercial Therms	14,488,432	14,753,729	14,896,553	15,100,812	15,306,436	15,575,082	15,715,886	15,920,181	16,123,038	16,394,998
Industrial Therms	500,607	508,663	512,385	518,281	524,219	532,374	536,037	541,934	547,787	556,041
Ind., Inst., & Cmcl. Interup. Therms	1,676,333	1,682,778	1,676,204	1,676,204	1,676,333	1,682,778	1,676,333	1,676,333	1,676,204	1,682,649
Total Core Therms	43,529,567	44,289,467	44,669,280	45,239,802	45,814,344	46,583,999	46,957,985	47,538,604	48,095,001	48,874,303
Daily Baseload Therms	37,836	38,344	38,878	39,373	39,911	40,251	40,745	41,282	41,820	42,333
Peak Day Therms	339,415	348,103	352,569	357,035	361,498	362,101	370,637	375,099	379,560	384,241
Therms Per Residential Customer	677	679	676	676	675	678	675	675	674	677
Therms Per Commercial Customer	3,901	3,916	3,899	3,899	3,896	3,911	3,894	3,893	3,891	3,906
Therms Per Industrial Customer	33,374	33,911	34,159	34,552	34,948	35,492	35,736	36,129	36,519	37,069
Residential Customers	39,699	40,252	40,804	41,355	41,907	42,460	43,012	43,564	44,116	44,668
Commercial Customers	3,714	3,767	3,821	3,875	3,929	3,983	4,036	4,090	4,144	4,198
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	43,430	44,036	44,642	45,247	45,853	46,460	47,065	47,671	48,277	48,883
Brouillette Hop										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,930	29,106	28,926	28,929	28,931	29,106	28,926	28,928	28,931	29,107
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	223	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,935	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	7,917,128	8,094,875	8,184,196	8,308,433	8,431,645	8,590,829	8,659,397	8,767,440	8,868,093	9,012,092
Commercial Therms	5,649,253	5,976,230	6,040,255	6,130,652	6,220,963	6,338,118	6,390,492	6,472,107	6,549,217	6,658,476
Industrial Therms	291,576	294,817	295,662	297,740	299,902	303,205	304,099	306,217	308,269	311,634
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,057,957	14,365,921	14,520,113	14,736,825	14,952,510	15,232,152	15,353,988	15,545,765	15,725,579	15,982,202
Daily Baseload Therms	10,814	11,077	11,220	10,729	11,128	11,722	11,839	11,950	12,055	11,356
Peak Day Therms	86,562	91,567	92,898	94,145	95,360	93,760	98,214	99,292	100,312	101,895
Therms Per Residential Customer	487	486	479	476	472	470	464	460	456	454
Therms Per Commercial Customer	3,946	3,960	3,934	3,928	3,923	3,936	3,910	3,904	3,896	3,909
Therms Per Industrial Customer	22,429	22,678	22,743	22,903	23,069	23,323	23,392	23,555	23,713	23,972
Residential Customers	16,261	16,667	17,072	17,473	17,873	18,273	18,670	19,065	19,459	19,852
Commercial Customers	1,482	1,509	1,535	1,561	1,586	1,610	1,634	1,658	1,681	1,703
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	17,756	18,190	18,620	19,047	19,472	19,896	20,317	20,736	21,153	21,568
Castle Rock										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	39,929	40,565	40,802	41,236	41,668	42,314	42,540	42,976	43,417	44,074
Commercial Therms	139,703	140,196	139,566	139,488	139,395	139,886	139,240	139,161	139,097	139,584
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	179,632	180,761	180,367	180,724	181,063	182,200	181,780	182,137	182,513	183,658
Daily Baseload Therms	244	244	244	244	244	245	245	245	245	246
Peak Day Therms	1,221	1,205	1,208	1,211	1,213	1,235	1,219	1,222	1,225	1,228
Therms Per Residential Customer	408	405	397	392	388	385	380	375	371	369
Therms Per Commercial Customer	2,910	2,921	2,908	2,906	2,904	2,914	2,901	2,899	2,898	2,908
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	98	100	103	105	107	110	112	115	117	119
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	146	148	151	153	155	158	160	163	165	167

**Appendix B
Demand Forecast
Expected Scenario**

Chemult	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.05%	0.56%	-0.46%	0.04%	0.03%	0.54%	-0.48%	0.02%	0.02%	0.53%
Residential Therms	13,837	13,930	13,887	13,908	13,928	14,013	13,960	13,974	13,965	14,044
Commercial Therms	41,325	41,540	41,327	41,327	41,325	41,540	41,325	41,325	41,327	41,542
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	55,162	55,470	55,213	55,235	55,253	55,553	55,286	55,299	55,312	55,605
Daily Baseload Therms	44	44	44	44	44	44	44	44	44	44
Peak Day Therms	401	399	400	400	400	401	400	400	400	400
Therms Per Residential Customer	512	516	514	515	516	519	517	518	518	521
Therms Per Commercial Customer	2,066	2,077	2,066	2,066	2,066	2,077	2,066	2,066	2,066	2,077
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	27	27	27	27	27	27	27	27	27	27
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	47	47	47	47	47	47	47	47	47	47
Dehawn Dairy	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%
Residential Therms	3,863	3,875	3,863	3,863	3,863	3,875	3,863	3,863	3,863	3,875
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,863	3,875	3,863	3,863	3,863	3,875	3,863	3,863	3,863	3,875
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	1,932	1,937	1,932	1,932	1,932	1,937	1,932	1,932	1,932	1,937
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.17%	0.65%	-0.41%	0.15%	0.24%	0.66%	-0.31%	0.17%	0.07%	0.64%
Residential Therms	14,687	14,755	14,674	14,674	14,685	14,756	14,686	14,686	14,674	14,741
Commercial Therms	97,475	98,135	97,750	97,921	98,175	98,848	98,566	98,757	98,853	99,507
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	112,161	112,889	112,424	112,595	112,860	113,603	113,253	113,442	113,527	114,248
Daily Baseload Therms	52	52	52	43	54	53	53	53	53	46
Peak Day Therms	997	1,094	1,095	1,097	1,098	1,004	1,101	1,103	1,104	1,106
Therms Per Residential Customer	612	615	611	611	612	612	612	612	611	614
Therms Per Commercial Customer	7,498	7,549	7,519	7,532	7,552	7,604	7,582	7,597	7,604	7,654
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.10%	1.51%	0.65%	1.07%	1.07%	1.47%	0.42%	1.02%	1.00%	1.43%
Residential Therms	6,235,242	6,336,152	6,382,325	6,456,019	6,530,323	6,632,499	6,678,022	6,751,720	6,824,770	6,928,198
Commercial Therms	3,989,635	4,051,374	4,079,242	4,124,203	4,169,615	4,232,199	4,259,841	4,304,919	4,349,576	4,413,007
Industrial Therms	472,944	473,230	470,588	469,399	468,246	468,519	465,926	464,737	463,512	463,771
Ind., Inst., & Cmcl. Interup. Therms	83,470	83,752	83,464	83,464	83,470	83,752	83,470	83,470	83,464	83,464
Total Core Therms	10,781,291	10,944,509	11,015,629	11,133,085	11,251,654	11,416,968	11,487,259	11,604,846	11,721,323	11,888,722
Daily Baseload Therms	10,014	10,143	10,280	10,385	10,488	10,520	10,618	10,754	10,894	10,998
Peak Day Therms	80,220	82,200	83,067	83,933	84,799	84,641	86,607	87,473	88,339	89,284
Therms Per Residential Customer	639	642	639	639	639	642	639	639	638	641
Therms Per Commercial Customer	3,482	3,491	3,471	3,465	3,461	3,470	3,451	3,446	3,442	3,451
Therms Per Industrial Customer	157,648	157,743	156,863	156,466	156,082	156,173	155,309	154,912	154,504	154,590
Residential Customers	9,752	9,870	9,987	10,104	10,221	10,338	10,455	10,572	10,689	10,807
Commercial Customers	1,146	1,161	1,175	1,190	1,205	1,220	1,235	1,249	1,264	1,279
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	10,902	11,034	11,166	11,298	11,429	11,561	11,694	11,825	11,957	12,089
Finley	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.18%	1.73%	0.52%	1.11%	1.13%	1.68%	0.48%	1.05%	1.02%	1.64%
Residential Therms	20,226	20,602	20,747	21,011	21,280	21,666	21,812	22,080	22,343	22,739
Commercial Therms	73,903	75,152	75,505	76,312	77,145	78,413	78,748	79,537	80,313	81,606
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	94,129	95,754	96,251	97,322	98,425	100,079	100,560	101,617	102,656	104,345
Daily Baseload Therms	26	25	26	8	16	26	27	27	28	5
Peak Day Therms	710	747	754	760	767	756	787	793	800	814
Therms Per Residential Customer	511	508	501	496	493	491	483	479	475	475
Therms Per Commercial Customer	5,685	5,781	5,808	5,870	5,934	6,032	6,058	6,118	6,178	6,277
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	40	41	41	42	43	44	45	46	47	48
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	53	54	54	55	56	57	58	59	60	61

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Gilchrist										
Total Therms Pct. Growth	0.56%	1.05%	-0.65%	0.43%	0.39%	0.86%	-0.22%	0.26%	0.22%	0.22%
Residential Therms	126,586	127,901	127,913	128,496	129,023	130,115	129,890	130,245	130,550	131,463
Commercial Therms	153,329	154,941	154,793	155,439	156,024	157,392	156,982	157,375	157,712	158,882
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	279,914	282,842	282,706	283,935	285,047	287,507	286,872	287,620	288,262	290,345
Daily Baseload Therms	156	157	157	158	158	159	160	160	160	161
Peak Day Therms	2,202	2,220	2,230	2,240	2,248	2,251	2,263	2,269	2,273	2,279
Therms Per Residential Customer	663	670	670	673	676	681	680	681	682	686
Therms Per Commercial Customer	3,194	3,228	3,159	3,172	3,184	3,212	3,204	3,212	3,219	3,242
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	191	191	191	191	191	191	191	191	191	192
Commercial Customers	48	48	49	49	49	49	49	49	49	49
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	239	239	240	240	240	240	240	240	240	241
Grandview										
Total Therms Pct. Growth	3.61%	3.61%	2.87%	2.97%	2.85%	2.82%	2.20%	2.28%	2.08%	2.25%
Residential Therms	633,825	642,063	644,832	650,244	655,882	663,410	665,673	670,323	674,379	681,283
Commercial Therms	3,900,538	4,057,321	4,190,787	4,330,257	4,467,797	4,605,618	4,720,686	4,839,817	4,951,178	5,071,836
Industrial Therms	42,901	43,126	42,874	42,871	42,898	43,127	42,900	42,900	42,873	43,100
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,577,264	4,742,511	4,878,493	5,023,372	5,166,577	5,312,156	5,429,259	5,553,040	5,668,430	5,794,218
Daily Baseload Therms	4,306	3,432	3,501	4,843	5,050	5,098	4,041	4,044	4,079	5,699
Peak Day Therms	15,997	19,799	20,235	20,656	21,040	17,706	21,896	22,251	22,593	23,008
Therms Per Residential Customer	562	563	559	558	557	557	553	551	549	549
Therms Per Commercial Customer	17,272	17,692	17,999	18,316	18,629	18,927	19,125	19,327	19,506	19,703
Therms Per Industrial Customer	4,290	4,313	4,287	4,287	4,290	4,313	4,290	4,290	4,287	4,310
Residential Customers	1,128	1,140	1,153	1,165	1,178	1,191	1,203	1,216	1,228	1,241
Commercial Customers	226	229	233	236	240	243	247	250	254	257
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,363	1,380	1,396	1,412	1,428	1,444	1,460	1,476	1,492	1,509
Hermiston										
Total Therms Pct. Growth	1.20%	1.68%	0.65%	1.16%	1.17%	1.63%	0.62%	1.10%	1.06%	1.58%
Residential Therms	2,730,075	2,787,655	2,814,683	2,857,310	2,900,863	2,959,353	2,986,370	3,029,024	3,070,697	3,130,072
Commercial Therms	3,429,711	3,486,868	3,510,416	3,551,178	3,593,032	3,650,872	3,674,695	3,715,476	3,755,127	3,813,626
Industrial Therms	183,176	184,096	183,131	183,131	183,176	184,096	183,176	183,176	183,131	184,051
Ind., Inst., & Cncl. Interup. Therms	708,609	711,642	708,376	708,377	708,609	711,642	708,608	708,608	708,377	711,411
Total Core Therms	7,051,571	7,170,261	7,216,606	7,299,995	7,385,679	7,505,964	7,552,848	7,636,284	7,717,333	7,839,359
Daily Baseload Therms	6,865	6,936	6,999	7,078	7,192	7,243	7,317	7,385	7,454	7,573
Peak Day Therms	51,497	54,462	55,080	55,697	56,312	54,784	57,714	58,329	58,943	59,734
Therms Per Residential Customer	527	530	526	526	526	528	525	525	524	527
Therms Per Commercial Customer	3,961	3,980	3,961	3,962	3,964	3,964	3,965	3,966	3,966	3,966
Therms Per Industrial Customer	22,897	23,012	22,891	22,891	22,897	23,012	22,897	22,897	22,891	23,006
Residential Customers	5,177	5,262	5,347	5,432	5,517	5,602	5,687	5,772	5,857	5,942
Commercial Customers	866	876	886	896	906	916	927	937	947	957
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,051	6,147	6,242	6,337	6,432	6,527	6,622	6,718	6,812	6,908
Huntington										
Total Therms Pct. Growth	2.14%	2.74%	1.47%	2.07%	2.09%	2.68%	1.41%	2.01%	1.99%	2.58%
Residential Therms	79,041	80,905	81,819	83,225	84,649	86,635	87,587	89,056	90,525	92,554
Commercial Therms	39,870	41,265	42,151	43,316	44,515	46,011	46,935	48,175	49,429	51,013
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	118,911	122,170	123,970	126,540	129,185	132,646	134,522	137,231	139,953	143,567
Daily Baseload Therms	11	11	12	13	13	12	12	13	14	14
Peak Day Therms	1,305	1,357	1,384	1,412	1,440	1,446	1,500	1,529	1,558	1,590
Therms Per Residential Customer	506	510	509	510	512	516	514	516	517	521
Therms Per Commercial Customer	1,655	1,645	1,621	1,604	1,590	1,587	1,564	1,554	1,549	1,550
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	156	159	161	163	166	168	170	173	175	178
Commercial Customers	24	25	26	27	28	29	30	31	32	33
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	180	184	187	190	194	197	200	204	207	210

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDS Church										
Total Therns Pct. Growth	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%
Residential Therns	5,323	5,347	5,323	5,323	5,323	5,347	5,323	5,323	5,323	5,347
Commercial Therns	5,161	5,188	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189
Industrial Therns	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therns	-	-	-	-	-	-	-	-	-	-
Total Core Therns	10,484	10,535	10,484	10,484	10,484	10,535	10,484	10,484	10,484	10,535
Daily Baseload Therns	9	9	9	9	9	9	9	9	9	9
Peak Day Therns	60	60	60	60	60	60	60	60	60	60
Therns Per Residential Customer	1,331	1,337	1,331	1,331	1,331	1,337	1,331	1,331	1,331	1,337
Therns Per Commercial Customer	5,161	5,188	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189
Therns Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Longview South Loop										
Total Therns Pct. Growth	1.26%	1.61%	0.85%	1.22%	1.23%	1.55%	0.83%	1.16%	1.12%	1.49%
Residential Therns	1,466,632	1,503,093	1,528,316	1,559,276	1,590,681	1,627,560	1,652,752	1,683,697	1,714,144	1,751,419
Commercial Therns	5,098,059	5,173,934	5,212,495	5,270,277	5,329,557	5,406,236	5,445,459	5,503,273	5,559,525	5,636,977
Industrial Therns	161,134	157,907	153,685	150,008	146,378	143,124	139,009	135,352	131,664	128,388
Ind., Inst., & Cmcl. Interup. Therns	88,498	89,087	88,711	88,704	88,731	89,029	88,721	88,755	88,714	89,029
Total Core Therns	6,814,523	6,924,021	6,983,208	7,088,265	7,155,348	7,285,950	7,325,941	7,411,078	7,494,047	7,605,813
Daily Baseload Therns	5,825	5,883	5,949	4,096	5,049	4,212	6,267	4,233	6,300	4,676
Peak Day Therns	45,197	48,055	48,855	49,654	70,452	69,338	72,185	72,982	73,779	74,717
Therns Per Residential Customer	541	543	540	539	538	540	537	536	536	537
Therns Per Commercial Customer	4,743	4,750	4,723	4,714	4,706	4,714	4,689	4,681	4,672	4,680
Therns Per Industrial Customer	12,395	12,147	11,822	11,539	11,260	11,010	10,693	10,412	10,128	9,876
Residential Customers	2,709	2,771	2,832	2,894	2,955	3,017	3,078	3,140	3,201	3,262
Commercial Customers	1,075	1,089	1,104	1,118	1,133	1,147	1,161	1,176	1,190	1,205
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	3,798	3,874	3,950	4,026	4,102	4,177	4,253	4,329	4,405	4,481

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Madras										
Total Therns Pct. Growth	0.95%	1.47%	0.37%	0.91%	0.93%	1.42%	0.35%	0.87%	0.83%	1.39%
Residential Therns	825,448	840,824	846,988	857,814	868,866	884,339	890,329	900,997	911,427	927,072
Commercial Therns	1,367,076	1,386,490	1,391,514	1,403,851	1,416,560	1,436,070	1,441,025	1,453,181	1,464,952	1,484,643
Industrial Therns	1,014,434	1,029,485	1,033,082	1,042,501	1,052,192	1,067,331	1,070,851	1,080,131	1,089,128	1,104,420
Ind., Inst., & Cmcl. Interup. Therns	293,016	294,556	292,939	292,939	293,016	294,556	293,016	293,016	292,939	294,479
Total Core Therns	3,499,974	3,551,355	3,564,523	3,597,105	3,630,635	3,682,297	3,695,222	3,727,325	3,758,445	3,810,615
Daily Baseload Therns	1,724	1,758	1,796	1,833	1,833	1,829	1,867	1,867	1,905	1,921
Peak Day Therns	29,315	30,511	30,800	31,089	31,377	30,694	31,938	32,222	32,506	32,780
Therns Per Residential Customer	502	502	496	494	491	486	483	481	481	481
Therns Per Commercial Customer	3,441	3,475	3,472	3,492	3,506	3,544	3,541	3,559	3,573	3,607
Therns Per Industrial Customer	56,357	57,194	57,393	57,917	58,455	59,294	59,492	60,007	60,507	61,357
Residential Customers	1,643	1,675	1,706	1,738	1,770	1,801	1,833	1,865	1,896	1,928
Commercial Customers	397	399	401	402	404	405	407	408	410	412
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,059	2,093	2,126	2,159	2,193	2,225	2,259	2,292	2,325	2,359

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
McCleary (Aberdeen/Hoquiam)										
Total Therns Pct. Growth	0.74%	1.17%	0.31%	0.75%	0.78%	1.15%	0.32%	0.73%	0.69%	1.13%
Residential Therns	2,947,061	2,994,922	3,015,889	3,050,717	3,086,562	3,135,040	3,156,424	3,191,287	3,225,088	3,274,176
Commercial Therns	3,416,309	3,446,756	3,449,201	3,446,249	3,484,501	3,515,370	3,518,689	3,535,755	3,551,596	3,582,714
Industrial Therns	194,803	193,315	190,364	188,188	186,073	184,557	181,708	179,533	177,299	175,759
Ind., Inst., & Cmcl. Interup. Therns	-	-	-	-	-	-	-	-	-	-
Total Core Therns	6,558,173	6,634,993	6,655,454	6,705,153	6,757,136	6,834,967	6,856,820	6,906,576	6,953,983	7,032,647
Daily Baseload Therns	6,056	6,125	6,151	5,079	5,846	6,282	6,309	6,334	6,360	5,400
Peak Day Therns	39,231	41,806	42,118	42,429	42,740	40,951	43,486	43,796	44,106	44,544
Therns Per Residential Customer	691	693	688	687	686	688	683	682	681	683
Therns Per Commercial Customer	4,467	4,480	4,456	4,452	4,449	4,464	4,441	4,437	4,432	4,446
Therns Per Industrial Customer	14,985	14,870	14,643	14,476	14,313	14,197	13,978	13,810	13,638	13,520
Residential Customers	4,264	4,323	4,382	4,441	4,500	4,559	4,619	4,678	4,737	4,796
Commercial Customers	765	769	774	779	783	788	792	797	801	806
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,041	5,105	5,169	5,232	5,296	5,360	5,424	5,487	5,551	5,615

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Milton-Freewater										
Total Therns Pct. Growth	1.13%	1.61%	0.58%	1.09%	1.12%	1.57%	0.57%	1.05%	1.00%	1.52%
Residential Therns	122,680	124,598	125,118	126,350	127,625	129,570	130,105	131,338	132,527	134,498
Commercial Therns	367,470	374,266	377,457	382,504	387,700	394,590	397,831	402,882	407,778	414,758
Industrial Therns	12,580	11,978	11,244	10,577	9,913	9,297	8,581	7,914	7,244	6,614
Ind., Inst., & Cmcl. Interup. Therns	-	-	-	-	-	-	-	-	-	-
Total Core Therns	502,729	510,843	513,820	519,432	525,238	533,458	536,518	542,134	547,549	555,871
Daily Baseload Therns	429	432	433	423	443	457	462	463	463	458
Peak Day Therns	5,561	5,811	5,875	5,939	6,003	5,873	6,132	6,196	6,260	6,325
Therns Per Residential Customer	407	406	401	398	396	395	390	388	385	385
Therns Per Commercial Customer	2,890	2,898	2,878	2,872	2,868	2,877	2,859	2,854	2,848	2,857
Therns Per Industrial Customer	2,960	2,818	2,646	2,489	2,332	2,188	2,019	1,862	1,704	1,556
Residential Customers	301	307	312	317	323	328	333	339	344	349
Commercial Customers	127	129	131	133	135	137	139	141	143	145
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	433	440	447	455	462	469	477	484	491	499

**Appendix B
Demand Forecast
Expected Scenario**

Mission Tap	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.39%	1.18%	0.39%	0.77%	0.76%	1.15%	0.35%	0.74%	0.74%	1.37%
Residential Therms	131,112	132,297	132,332	132,938	133,543	134,139	134,743	135,349	135,974	137,180
Commercial Therms	458,708	464,472	466,680	470,657	474,629	480,455	482,596	486,574	490,556	496,443
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	589,820	596,769	599,012	603,595	608,173	615,194	617,340	621,943	626,531	633,623
Daily Baseload Therms	596	601	606	611	615	620	625	629	634	639
Peak Day Therms	6,496	6,540	6,590	6,640	6,690	6,745	6,790	6,840	6,890	6,939
Therms Per Residential Customer	565	567	565	565	565	567	564	563	564	566
Therms Per Commercial Customer	8,821	8,875	8,778	8,716	8,695	8,696	8,618	8,536	8,569	8,547
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	232	233	234	235	236	238	239	240	241	242
Commercial Customers	52	52	53	54	55	55	56	57	57	58
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	284	286	287	289	291	293	295	297	299	300

Moses Lake	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.26%	0.69%	-0.15%	0.21%	0.25%	0.64%	-0.23%	0.25%	0.16%	0.65%
Residential Therms	315,408	318,067	317,816	318,250	319,991	322,493	321,931	323,075	323,919	326,476
Commercial Therms	2,413,728	2,432,199	2,430,841	2,437,628	2,445,592	2,462,534	2,458,463	2,466,307	2,471,646	2,489,027
Industrial Therms	92,865	91,283	88,577	86,856	84,970	83,672	81,643	79,682	78,150	76,762
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,822,001	2,841,549	2,837,235	2,843,399	2,850,553	2,868,700	2,862,037	2,869,064	2,873,715	2,892,265
Daily Baseload Therms	2,773	2,761	2,763	2,774	2,801	2,809	2,820	2,820	2,818	2,831
Peak Day Therms	16,834	17,448	17,466	17,472	17,481	17,046	17,575	17,586	17,587	17,878
Therms Per Residential Customer	435	439	438	439	440	443	442	443	443	447
Therms Per Commercial Customer	6,213	6,252	6,240	6,246	6,260	6,291	6,274	6,284	6,289	6,325
Therms Per Industrial Customer	11,608	11,410	11,072	10,857	10,621	10,459	10,205	9,960	9,769	9,595
Residential Customers	725	725	726	727	728	728	729	730	731	731
Commercial Customers	389	389	390	390	391	391	392	393	393	394
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,121	1,122	1,124	1,125	1,126	1,128	1,129	1,130	1,132	1,133

Moxee (Beauchene)	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.26%	1.59%	0.74%	1.11%	1.08%	1.38%	0.55%	0.91%	0.84%	1.23%
Residential Therms	754,647	767,880	773,459	782,520	791,440	803,552	807,824	815,560	822,823	833,918
Commercial Therms	798,518	825,429	843,962	865,718	886,895	911,133	926,294	944,852	962,526	984,333
Industrial Therms	557,944	551,404	543,199	536,299	529,709	523,928	516,869	510,970	505,198	500,491
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,111,109	2,144,713	2,160,620	2,184,537	2,208,044	2,238,613	2,250,987	2,271,382	2,290,548	2,318,742
Daily Baseload Therms	617	431	467	517	663	476	497	534	534	691
Peak Day Therms	13,109	13,928	14,127	14,317	14,500	14,264	14,958	15,116	15,267	15,534
Therms Per Residential Customer	548	547	540	536	533	531	525	521	517	516
Therms Per Commercial Customer	10,237	10,416	10,441	10,525	10,632	10,698	10,729	10,717	10,775	10,817
Therms Per Industrial Customer	41,846	41,098	40,237	39,726	38,759	38,336	37,590	36,716	35,872	35,122
Residential Customers	1,377	1,405	1,432	1,459	1,486	1,513	1,539	1,565	1,590	1,616
Commercial Customers	78	79	81	82	83	85	86	88	89	91
Industrial Customers	13	13	14	14	14	14	14	14	14	14
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,468	1,497	1,526	1,555	1,583	1,611	1,639	1,667	1,694	1,721

North Bend	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	3.11%	3.63%	2.26%	2.89%	2.85%	3.35%	1.99%	2.55%	2.45%	3.15%
Residential Therms	7,225	7,489	7,644	7,856	8,073	8,337	8,491	8,704	8,917	9,204
Commercial Therms	279,286	289,747	296,627	305,482	314,487	325,302	332,054	340,780	349,383	360,655
Industrial Therms	10,376	10,439	10,368	10,368	10,375	10,441	10,371	10,368	10,368	10,435
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	296,886	307,675	314,639	323,707	332,934	344,080	350,916	359,858	368,668	380,294
Daily Baseload Therms	34	34	33	33	34	34	34	34	34	34
Peak Day Therms	4,821	5,106	5,265	5,425	5,584	5,590	5,898	6,058	6,218	6,373
Therms Per Residential Customer	1,809	1,872	1,911	1,964	2,018	2,084	2,123	2,176	2,229	2,301
Therms Per Commercial Customer	2,101	2,107	2,083	2,076	2,072	2,079	2,057	2,051	2,047	2,055
Therms Per Industrial Customer	5,188	5,219	5,184	5,184	5,187	5,221	5,186	5,187	5,184	5,217
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	133	138	142	147	152	157	161	166	171	176
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	139	144	148	153	158	163	167	172	177	182

Nyssa-Ontario	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,380,313	2,418,484	2,430,720	2,456,000	2,481,624	2,520,331	2,532,367	2,557,655	2,582,585	2,621,821
Commercial Therms	2,918,715	2,967,694	2,986,473	3,020,466	3,054,869	3,104,561	3,123,034	3,157,037	3,190,612	3,240,989
Industrial Therms	513,930	519,441	522,869	526,132	530,291	535,840	538,529	542,622	546,613	552,166
Ind., Inst., & Cmcl. Interup. Therms	913,780	913,270	913,648	913,649	913,780	918,270	913,777	913,778	913,651	918,141
Total Core Therms	6,726,738	6,823,889	6,852,910	6,916,248	6,980,563	7,079,002	7,107,707	7,171,092	7,232,460	7,323,116
Daily Baseload Therms	4,157	4,154	4,181	4,225	4,275	4,289	4,311	4,333	4,360	4,399
Peak Day Therms	47,799	49,325	49,778	50,230	50,682	50,311	51,734	52,185	52,635	53,240
Therms Per Residential Customer	551	554	551	550	550	553	550	550	550	552
Therms Per Commercial Customer	2,731	2,746	2,732	2,733	2,733	2,748	2,735	2,735	2,735	2,749
Therms Per Industrial Customer	16,490	16,360	16,064	15,863	15,521	15,457	15,206	15,003	14,740	14,659
Residential Customers	4,319	4,367	4,414	4,462	4,509	4,557	4,605	4,652	4,700	4,747
Commercial Customers	1,069	1,081	1,093	1,105	1,118	1,130	1,142	1,154	1,167	1,179
Industrial Customers	31	32	33	33	34	35	35	36	37	38
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,420	5,480	5,541	5,601	5,662	5,723	5,783	5,844	5,904	5,965

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Othello										
Total Therms Pct. Growth	0.67%	1.04%	0.36%	0.64%	0.69%	1.02%	0.36%	0.69%	0.69%	1.09%
Residential Therms	641,654	645,282	643,688	644,931	646,279	650,531	648,954	650,305	651,673	656,104
Commercial Therms	1,523,939	1,544,066	1,555,776	1,570,557	1,586,616	1,606,968	1,618,898	1,635,044	1,651,569	1,674,186
Industrial Therms	211,335	212,249	211,336	211,336	211,335	212,249	211,336	211,336	211,336	212,249
Ind., Inst., & Cmcl. Interup. Therms	86,069	86,383	86,068	86,068	86,069	86,383	86,069	86,069	86,068	86,382
Total Core Therms	2,462,997	2,487,980	2,496,869	2,512,892	2,530,299	2,556,130	2,565,259	2,582,755	2,600,645	2,628,921
Daily Baseload Therms	1,865	1,885	1,901	1,914	1,928	1,947	1,963	1,979	1,994	2,016
Peak Day Therms	13,107	13,192	13,266	13,332	13,404	13,437	13,540	13,612	13,686	13,754
Therms Per Residential Customer	555	556	552	550	549	550	546	545	544	545
Therms Per Commercial Customer	4,332	4,334	4,310	4,299	4,287	4,287	4,268	4,258	4,249	4,258
Therms Per Industrial Customer	23,482	23,583	23,482	23,482	23,482	23,583	23,482	23,482	23,482	23,583
Residential Customers	1,156	1,161	1,167	1,172	1,177	1,183	1,188	1,193	1,199	1,204
Commercial Customers	352	356	361	365	370	375	379	384	389	393
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,518	1,528	1,538	1,547	1,557	1,567	1,577	1,587	1,597	1,607
Patterson										
Total Therms Pct. Growth	0.00%	0.14%	-0.19%	0.00%	0.06%	0.14%	-0.14%	0.00%	-0.05%	0.14%
Residential Therms	126	135	143	151	159	167	175	184	192	199
Commercial Therms	305,623	306,051	305,459	305,458	305,621	306,051	305,623	305,623	305,459	305,885
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	305,750	306,186	305,602	305,609	305,780	306,219	305,709	305,807	305,650	306,084
Daily Baseload Therms	151	151	154	150	147	151	151	152	155	148
Peak Day Therms	199	359	360	362	364	195	361	362	364	360
Therms Per Residential Customer	126	135	143	151	159	167	175	184	192	199
Therms Per Commercial Customer	61,210	61,210	61,092	61,092	61,124	61,210	61,125	61,125	61,092	61,177
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth	0.75%	1.24%	0.24%	0.74%	0.75%	1.22%	0.23%	0.72%	0.70%	1.20%
Residential Therms	3,193,547	3,241,141	3,255,169	3,286,073	3,317,452	3,365,678	3,379,541	3,410,454	3,440,872	3,489,720
Commercial Therms	2,579,924	2,610,925	2,616,660	2,635,140	2,654,002	2,685,354	2,691,114	2,709,599	2,727,692	2,759,390
Industrial Therms	157,900	158,772	157,884	157,892	157,931	158,773	157,892	157,898	157,888	158,784
Ind., Inst., & Cmcl. Interup. Therms	671,445	674,022	671,343	671,343	671,445	674,022	671,445	671,445	671,343	673,920
Total Core Therms	6,602,816	6,684,860	6,701,056	6,750,448	6,800,830	6,883,826	6,899,992	6,949,396	6,997,794	7,081,814
Daily Baseload Therms	5,021	5,084	5,129	5,162	5,186	5,230	5,280	5,326	5,326	5,352
Peak Day Therms	67,371	68,910	69,420	69,929	70,438	70,042	71,537	72,046	72,554	73,146
Therms Per Residential Customer	548	550	545	544	543	545	540	539	539	541
Therms Per Commercial Customer	3,027	3,034	3,012	3,004	2,998	3,005	2,984	2,977	2,970	2,978
Therms Per Industrial Customer	26,317	26,442	26,314	26,315	26,322	26,462	26,315	26,316	26,315	26,444
Residential Customers	5,829	5,898	5,968	6,036	6,106	6,175	6,244	6,313	6,382	6,451
Commercial Customers	852	860	869	877	885	894	902	910	918	927
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,688	6,766	6,843	6,921	6,998	7,075	7,153	7,230	7,307	7,385
Plymouth										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,930	29,106	28,926	28,929	28,931	29,106	28,926	28,928	28,931	29,107
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	223	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth	1.73%	2.27%	1.09%	1.64%	1.64%	2.16%	1.01%	1.54%	1.49%	2.06%
Residential Therms	2,179,140	2,243,784	2,282,552	2,334,347	2,386,738	2,452,505	2,490,599	2,542,384	2,593,484	2,660,348
Commercial Therms	2,021,108	2,058,383	2,072,825	2,098,895	2,125,504	2,163,366	2,177,823	2,203,928	2,229,477	2,267,923
Industrial Therms	431,205	434,256	432,478	433,174	433,974	437,050	435,374	436,078	436,685	439,787
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,631,453	4,736,423	4,787,855	4,866,415	4,946,216	5,052,922	5,103,796	5,182,390	5,259,646	5,368,058
Daily Baseload Therms	3,040	3,063	3,075	3,122	3,208	3,306	3,354	3,363	3,371	3,471
Peak Day Therms	43,650	45,597	46,360	47,122	47,884	47,385	49,420	50,183	50,944	51,718
Therms Per Residential Customer	601	604	600	600	600	603	599	599	599	602
Therms Per Commercial Customer	3,266	3,280	3,258	3,255	3,252	3,268	3,247	3,244	3,241	3,255
Therms Per Industrial Customer	13,475	13,396	13,105	13,126	13,151	13,244	13,193	13,214	13,233	13,327
Residential Customers	3,628	3,716	3,804	3,891	3,979	4,067	4,155	4,243	4,330	4,418
Commercial Customers	619	628	636	645	654	662	671	679	688	697
Industrial Customers	32	32	33	33	33	33	33	33	33	33
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,279	4,376	4,473	4,569	4,666	4,762	4,859	4,955	5,051	5,148

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sedro-Woolley Loop										
Total Therms Pct. Growth	0.78%	1.21%	0.34%	0.78%	0.79%	1.21%	0.35%	0.78%	0.77%	1.21%
Residential Therms	18,951,127	19,229,887	19,296,748	19,450,494	19,407,668	19,849,563	19,920,541	20,076,905	20,236,144	20,485,384
Commercial Therms	10,786,503	10,921,923	10,966,302	11,057,887	11,151,497	11,291,061	11,337,982	11,432,320	11,526,003	11,649,831
Industrial Therms	1,125,545	1,129,381	1,125,408	1,125,407	1,125,545	1,129,381	1,125,547	1,125,546	1,125,406	1,129,242
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,907,174	31,281,191	31,388,458	31,633,788	31,884,709	32,270,004	32,384,070	32,636,770	32,887,553	33,284,458
Daily BaseLoad Therms	28,966	29,441	29,577	28,268	28,821	30,343	30,483	30,625	30,767	29,388
Peak Day Therms	177,575	182,952	184,260	185,576	186,900	185,007	190,086	191,441	192,804	194,700
Therms Per Residential Customer	623	623	618	616	613	614	609	607	605	605
Therms Per Commercial Customer	2,964	2,977	2,965	2,966	2,966	2,980	2,969	2,970	2,971	2,985
Therms Per Industrial Customer	11,008	10,974	10,735	10,634	10,536	10,385	10,263	10,125	10,041	9,993
Residential Customers	30,478	30,851	31,224	31,596	31,968	32,342	32,714	33,087	33,459	33,832
Commercial Customers	3,639	3,669	3,699	3,729	3,759	3,789	3,819	3,849	3,879	3,909
Industrial Customers	102	103	105	106	107	109	110	111	112	113
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	34,219	34,623	35,027	35,431	35,835	36,240	36,643	37,047	37,450	37,855
South Hermiston										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	28,929	29,106	28,926	28,929	28,931	29,106	28,926	28,928	28,931	29,107
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	222	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Therms Pct. Growth	1.67%	2.16%	1.10%	1.59%	1.58%	2.06%	1.02%	1.50%	1.46%	1.97%
Residential Therms	294,311	301,570	305,736	311,460	317,233	324,609	328,706	334,431	340,103	347,594
Commercial Therms	91,526	93,008	93,175	93,806	94,451	95,544	95,713	96,344	96,961	98,067
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	386,237	394,578	398,911	405,266	411,683	420,153	424,419	430,776	437,065	445,661
Daily BaseLoad Therms	161	158	159	162	168	169	172	173	175	175
Peak Day Therms	3,296	3,406	3,463	3,520	3,578	3,564	3,685	3,742	3,800	3,850
Therms Per Residential Customer	651	653	648	647	646	647	643	642	641	643
Therms Per Commercial Customer	1,973	1,951	1,905	1,876	1,849	1,834	1,803	1,781	1,758	1,741
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	452	462	472	482	491	501	511	521	531	541
Commercial Customers	47	48	49	50	51	52	53	54	55	56
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	499	510	521	532	543	553	564	575	586	597
Stearns (Sunriver)										
Total Therms Pct. Growth	0.91%	1.41%	0.40%	0.89%	0.88%	1.38%	0.37%	0.86%	0.85%	1.35%
Residential Therms	4,344,721	4,436,279	4,461,972	4,510,478	4,558,930	4,631,521	4,656,168	4,704,705	4,752,316	4,826,962
Commercial Therms	1,140,948	1,167,851	1,165,023	1,167,037	1,169,011	1,175,948	1,173,047	1,175,061	1,177,115	1,184,084
Industrial Therms	42,840	42,793	42,412	42,196	41,980	41,930	41,551	41,336	41,122	41,068
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,568,509	5,646,922	5,669,406	5,719,712	5,769,922	5,849,399	5,870,766	5,921,101	5,971,553	6,052,116
Daily BaseLoad Therms	6,011	6,078	6,120	6,159	6,195	6,255	6,294	6,336	6,378	6,439
Peak Day Therms	46,125	46,495	46,921	47,347	47,772	48,347	48,669	49,094	49,520	49,992
Therms Per Residential Customer	1,025	1,030	1,025	1,025	1,025	1,030	1,025	1,025	1,025	1,031
Therms Per Commercial Customer	5,206	5,216	5,201	5,204	5,196	5,226	5,200	5,199	5,208	5,216
Therms Per Industrial Customer	14,280	14,264	14,137	14,065	13,993	13,977	13,850	13,779	13,707	13,689
Residential Customers	4,260	4,307	4,354	4,401	4,448	4,495	4,542	4,589	4,637	4,684
Commercial Customers	223	224	224	224	225	225	226	226	226	227
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,486	4,534	4,581	4,629	4,676	4,723	4,771	4,818	4,866	4,914
Sumas SPE Loop										
Total Therms Pct. Growth	1.02%	1.43%	0.59%	1.03%	1.06%	1.43%	0.63%	1.03%	1.00%	1.43%
Residential Therms	34,921,083	35,370,536	35,520,726	35,831,090	36,156,131	36,624,157	36,793,712	37,118,112	37,434,352	37,921,942
Commercial Therms	18,855,199	19,138,630	19,271,038	19,485,498	19,708,722	20,004,860	20,149,396	20,373,559	20,593,452	20,902,971
Industrial Therms	2,569,982	2,641,232	2,696,410	2,761,145	2,827,571	2,902,406	2,960,540	3,028,204	3,095,527	3,174,138
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	56,346,263	57,150,398	57,488,174	58,077,733	58,692,425	59,531,424	59,903,647	60,519,876	61,123,330	61,999,051
Daily BaseLoad Therms	32,147	32,520	32,852	32,852	32,852	33,917	34,269	34,622	34,990	35,320
Peak Day Therms	509,311	531,509	537,149	542,848	548,612	534,713	559,213	565,165	571,179	576,112
Therms Per Residential Customer	669	670	664	662	661	662	657	656	654	655
Therms Per Commercial Customer	2,876	2,872	2,845	2,831	2,818	2,816	2,793	2,781	2,770	2,770
Therms Per Industrial Customer	22,743	22,720	22,564	22,479	22,427	22,427	22,302	22,266	22,230	22,262
Residential Customers	52,201	52,830	53,460	54,089	54,720	55,352	55,984	56,616	57,249	57,883
Commercial Customers	6,555	6,664	6,774	6,884	6,994	7,104	7,214	7,325	7,436	7,547
Industrial Customers	113	116	120	123	126	129	133	136	139	143
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	58,869	59,611	60,353	61,096	61,839	62,585	63,331	64,077	64,824	65,573

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sunnyside										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.78%	1.27%
Residential Therms	1,238,345	1,258,405	1,245,188	1,278,070	1,290,373	1,309,155	1,313,983	1,314,982	1,335,392	1,352,444
Commercial Therms	2,017,071	2,049,438	2,042,432	2,084,187	2,105,470	2,135,123	2,144,846	2,143,438	2,181,014	2,208,208
Industrial Therms	733,602	742,339	746,244	752,581	758,824	767,284	770,310	775,720	780,796	788,516
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,988,478	4,050,182	4,073,864	4,114,838	4,154,967	4,211,561	4,229,159	4,264,139	4,297,201	4,349,167
Daily BaseLoad Therms	3,000	3,031	3,043	3,072	3,121	3,164	3,189	3,206	3,210	3,262
Peak Day Therms	26,403	27,392	27,671	27,939	28,197	27,803	28,729	28,956	29,174	29,435
Therms Per Residential Customer	543	545	541	539	538	538	534	532	529	530
Therms Per Commercial Customer	3,236	3,241	3,219	3,211	3,200	3,201	3,175	3,164	3,150	3,147
Therms Per Industrial Customer	38,247	37,117	37,312	37,629	37,941	36,537	36,681	36,939	37,181	37,107
Residential Customers	2,280	2,310	2,340	2,371	2,401	2,432	2,462	2,493	2,523	2,553
Commercial Customers	623	632	641	649	658	667	676	684	692	702
Industrial Customers	19	20	20	20	20	21	21	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,922	2,962	3,001	3,040	3,079	3,120	3,158	3,197	3,236	3,276
Umatilla										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	568,132	584,732	595,394	608,978	622,542	639,412	649,778	663,361	676,965	694,113
Commercial Therms	579,104	591,210	597,687	606,946	616,186	628,469	634,750	644,009	653,287	665,748
Industrial Therms	998,096	1,002,724	1,000,746	1,002,061	1,003,364	1,008,013	1,005,996	1,007,313	1,008,645	1,013,318
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,145,340	2,178,665	2,193,627	2,217,985	2,242,092	2,275,894	2,290,524	2,314,683	2,338,898	2,373,179
Daily BaseLoad Therms	2,507	2,520	2,541	2,561	2,579	2,588	2,608	2,630	2,651	2,660
Peak Day Therms	12,813	12,951	13,122	13,293	13,444	13,715	13,828	13,999	14,169	14,344
Therms Per Residential Customer	445	446	443	442	441	442	439	438	437	438
Therms Per Commercial Customer	3,365	3,380	3,363	3,366	3,361	3,376	3,357	3,359	3,360	3,374
Therms Per Industrial Customer	142,585	143,246	142,964	143,152	143,338	144,002	143,714	143,902	144,092	144,760
Residential Customers	1,277	1,311	1,345	1,379	1,413	1,447	1,481	1,515	1,549	1,584
Commercial Customers	172	175	178	180	183	186	189	192	194	197
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,456	1,493	1,530	1,566	1,603	1,640	1,677	1,714	1,751	1,788
Walla Walla										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,907,579	8,021,590	8,057,512	8,127,026	8,196,100	8,298,706	8,322,614	8,382,335	8,437,428	8,530,673
Commercial Therms	6,919,673	6,994,024	7,005,244	7,044,358	7,083,389	7,149,551	7,152,904	7,185,099	7,213,804	7,273,195
Industrial Therms	265,924	272,547	276,817	281,988	287,139	293,236	296,890	301,605	306,102	311,776
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	15,093,176	15,288,161	15,339,573	15,453,372	15,566,629	15,741,493	15,772,408	15,869,039	15,957,334	16,115,644
Daily BaseLoad Therms	12,335	12,368	12,390	12,416	12,616	12,760	12,849	12,850	12,846	12,965
Peak Day Therms	171,404	175,423	176,895	178,267	179,602	178,200	182,047	183,214	184,313	185,319
Therms Per Residential Customer	576	577	572	569	567	566	561	558	555	555
Therms Per Commercial Customer	4,549	4,542	4,495	4,468	4,442	4,432	4,386	4,358	4,329	4,320
Therms Per Industrial Customer	10,817	10,866	10,647	10,777	10,635	10,728	10,603	10,400	10,495	10,393
Residential Customers	13,721	13,909	14,096	14,281	14,467	14,651	14,835	15,018	15,200	15,383
Commercial Customers	1,521	1,540	1,558	1,577	1,595	1,613	1,631	1,649	1,666	1,684
Industrial Customers	25	25	26	26	27	27	28	29	29	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	15,267	15,474	15,680	15,884	16,088	16,291	16,493	16,695	16,895	17,095
Wenatchee										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	648,197	656,582	657,987	662,974	668,181	676,670	678,187	683,177	687,943	696,521
Commercial Therms	3,917,352	3,963,383	3,970,563	3,998,553	4,028,330	4,076,962	4,086,402	4,116,164	4,144,617	4,194,752
Industrial Therms	474,613	488,009	497,138	508,443	519,899	533,486	542,567	553,879	565,027	578,800
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,040,162	5,107,974	5,125,688	5,169,971	5,216,409	5,287,118	5,307,356	5,353,220	5,397,586	5,470,083
Daily BaseLoad Therms	4,602	4,572	4,563	4,608	4,709	4,787	4,834	4,826	4,817	4,898
Peak Day Therms	33,364	35,393	35,668	35,946	36,227	34,830	36,873	37,161	37,451	37,820
Therms Per Residential Customer	417	417	414	412	411	411	408	407	405	406
Therms Per Commercial Customer	5,189	5,206	5,174	5,169	5,165	5,185	5,158	5,154	5,149	5,171
Therms Per Industrial Customer	26,367	26,027	26,165	26,186	25,995	26,674	26,360	26,375	26,906	26,510
Residential Customers	1,555	1,573	1,591	1,609	1,627	1,645	1,663	1,680	1,698	1,716
Commercial Customers	755	761	767	774	780	786	792	799	805	811
Industrial Customers	18	19	19	19	20	20	21	21	21	22
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,328	2,353	2,377	2,402	2,427	2,451	2,475	2,500	2,524	2,549
Woodland										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	641,128	663,293	678,853	697,903	717,467	740,005	755,706	774,805	793,352	816,241
Commercial Therms	966,392	988,782	1,000,612	1,018,140	1,036,686	1,059,448	1,071,923	1,089,511	1,106,027	1,129,129
Industrial Therms	982,602	1,015,747	1,040,388	1,069,580	1,099,617	1,133,208	1,158,203	1,187,440	1,215,742	1,249,735
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,590,122	2,667,822	2,719,853	2,785,624	2,853,770	2,932,660	2,985,832	3,051,755	3,115,121	3,195,105
Daily BaseLoad Therms	3,295	3,144	3,203	3,284	3,402	3,731	3,527	3,622	3,681	3,811
Peak Day Therms	15,945	18,543	18,999	19,456	19,912	17,961	20,824	21,281	21,738	22,192
Therms Per Residential Customer	604	608	605	606	608	611	609	610	610	614
Therms Per Commercial Customer	3,322	3,324	3,294	3,284	3,275	3,282	3,257	3,246	3,236	3,242
Therms Per Industrial Customer	40,800	40,630	40,273	41,006	40,727	40,593	41,120	40,946	40,638	41,428
Residential Customers	1,062	1,091	1,121	1,151	1,181	1,210	1,240	1,270	1,300	1,330
Commercial Customers	291	304	304	310	317	323	329	336	342	348
Industrial Customers	24	25	26	26	27	28	28	29	30	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,377	1,414	1,451	1,487	1,524	1,561	1,598	1,635	1,672	1,708

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Yakima Chief Ranch										
Total Therms Pct. Growth	-0.04%	0.12%	-0.06%	-0.02%	-0.04%	0.11%	-0.06%	-0.03%	-0.03%	0.12%
Residential Therms	335,874	336,291	336,105	336,035	335,908	336,289	336,092	335,976	335,880	336,283
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	335,874	336,291	336,105	336,035	335,908	336,289	336,092	335,976	335,880	336,283
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	167,937	168,145	168,052	168,018	167,954	168,145	168,046	167,988	167,940	168,142
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Yakima Loop										
Total Therms Pct. Growth	1.36%	1.81%	0.71%	1.19%	1.16%	1.58%	0.52%	0.97%	0.90%	1.39%
Residential Therms	14,876,605	15,122,839	15,201,739	15,358,395	15,513,367	15,740,527	15,797,200	15,930,950	16,055,759	16,265,606
Commercial Therms	15,383,752	15,654,224	15,758,831	15,939,590	16,118,368	16,366,634	16,445,752	16,600,090	16,744,135	16,972,251
Industrial Therms	4,221,939	4,328,603	4,394,010	4,476,738	4,558,197	4,654,475	4,708,057	4,778,701	4,844,964	4,931,821
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	34,482,297	35,105,666	35,354,581	35,774,723	36,189,932	36,761,637	36,951,009	37,309,740	37,644,858	38,169,678
Daily BaseLoad Therms	23,894	23,961	23,957	24,272	24,919	25,456	25,726	25,724	25,635	26,196
Peak Day Therms	290,122	304,300	307,947	311,470	314,856	307,427	321,417	324,414	327,303	330,296
Therms Per Residential Customer	662	664	660	659	657	659	654	652	650	651
Therms Per Commercial Customer	3,728	3,743	3,718	3,712	3,705	3,715	3,686	3,674	3,661	3,666
Therms Per Industrial Customer	36,344	36,400	36,066	35,910	35,704	35,712	35,421	35,267	35,087	35,040
Residential Customers	22,482	22,761	23,040	23,318	23,597	23,876	24,155	24,433	24,712	24,991
Commercial Customers	4,127	4,182	4,238	4,294	4,350	4,406	4,462	4,518	4,574	4,630
Industrial Customers	116	119	122	125	128	130	133	136	138	141
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	26,725	27,063	27,400	27,737	28,075	28,412	28,750	29,087	29,424	29,761

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Yakima Training Center										
Total Therms Pct. Growth	0.50%	1.08%	-0.14%	0.45%	0.44%	1.01%	-0.21%	0.38%	0.35%	0.95%
Residential Therms	21,657	22,071	22,235	22,511	22,781	23,161	23,281	23,517	23,742	24,092
Commercial Therms	368,788	372,591	371,882	373,371	374,831	378,483	377,539	378,810	380,013	383,482
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	390,445	394,663	394,116	395,882	397,612	401,645	400,820	402,327	403,754	407,574
Daily BaseLoad Therms	47	48	47	49	50	47	47	49	51	49
Peak Day Therms	3,692	3,740	3,757	3,774	3,790	3,774	3,820	3,834	3,848	3,861
Therms Per Residential Customer	747	755	741	740	735	728	713	713	718	709
Therms Per Commercial Customer	3,230	3,252	3,224	3,230	3,220	3,242	3,215	3,213	3,209	3,223
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	29	29	30	30	31	32	32	33	33	34
Commercial Customers	114	115	115	116	116	117	117	118	118	119
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	143	144	145	146	147	149	149	151	152	153

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Zillah (Toppenish)										
Total Therms Pct. Growth	0.69%	1.14%	0.07%	0.61%	0.69%	1.04%	0.06%	0.52%	0.39%	0.94%
Residential Therms	1,120,397	1,132,345	1,131,656	1,137,306	1,143,902	1,155,188	1,154,447	1,159,595	1,163,288	1,173,478
Commercial Therms	2,185,587	2,217,512	2,224,882	2,244,712	2,264,246	2,295,717	2,302,192	2,319,138	2,332,979	2,340,213
Industrial Therms	783,061	786,282	782,289	782,240	783,061	786,252	783,061	783,094	782,296	785,449
Ind., Inst., & Cmcl. Interup. Therms	70,389	70,821	71,016	71,356	71,724	72,015	72,179	72,486	72,689	73,079
Total Core Therms	4,159,434	4,206,959	4,209,843	4,236,635	4,264,933	4,309,172	4,311,878	4,334,313	4,351,252	4,392,219
Daily BaseLoad Therms	3,351	3,097	3,138	1,187	2,381	3,453	3,097	3,232	3,270	1,252
Peak Day Therms	32,620	37,268	37,505	37,733	37,952	33,729	38,417	38,610	38,794	39,030
Therms Per Residential Customer	538	540	535	534	533	534	530	528	526	527
Therms Per Commercial Customer	3,697	3,706	3,674	3,664	3,655	3,661	3,629	3,616	3,597	3,598
Therms Per Industrial Customer	30,118	29,212	28,974	28,973	29,002	29,031	27,966	27,968	27,939	28,052
Residential Customers	2,082	2,098	2,114	2,130	2,146	2,163	2,179	2,195	2,211	2,227
Commercial Customers	591	598	606	613	620	627	634	641	649	656
Industrial Customers	26	27	27	27	27	27	28	28	28	28
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,700	2,724	2,748	2,771	2,794	2,818	2,842	2,865	2,889	2,912

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Zone 10										
Total Therms Pct. Growth	1.71%	2.01%	1.12%	1.48%	1.47%	1.70%	0.90%	1.21%	1.09%	1.46%
Residential Therms	3,618,651	3,661,639	3,669,787	3,694,630	3,720,479	3,760,481	3,766,238	3,787,875	3,806,721	3,843,613
Commercial Therms	8,667,865	8,895,463	9,050,809	9,236,019	9,420,962	9,624,315	9,757,313	9,915,983	10,062,320	10,243,835
Industrial Therms	1,799,943	1,813,488	1,812,187	1,816,493	1,825,704	1,835,404	1,837,189	1,842,633	1,846,746	1,858,667
Ind., Inst., & Cmcl. Interup. Therms	70,389	70,821	71,016	71,356	71,724	72,015	72,179	72,486	72,689	73,079
Total Core Therms	14,156,848	14,441,411	14,602,799	14,820,499	15,038,869	15,295,215	15,432,919	15,618,976	15,788,475	16,019,194
Daily BaseLoad Therms	11,505	10,411	10,545	9,994	11,444	12,593	11,227	11,354	11,443	11,123
Peak Day Therms	79,726	89,971	90,940	91,875	92,774	84,062	94,666	95,458	96,220	97,172
Therms Per Residential Customer	606	607	603	601	599	600	595	593	590	590
Therms Per Commercial Customer	5,436	5,504	5,532	5,576	5,618	5,670	5,680	5,707	5,721	5,755
Therms Per Industrial Customer	28,954	28,373	28,315	28,414	28,527	28,247	27,836	27,919	27,981	28,055
Residential Customers	5,968	6,028	6,089	6,150	6,210	6,271	6,332	6,392	6,453	6,514
Commercial Customers	1,595	1,616	1,636	1,656	1,677	1,697	1,718	1,738	1,759	1,780
Industrial Customers	62	64	64	64	64	65	66	66	66	66
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	7,625	7,709	7,791	7,871	7,952	8,034	8,116	8,197	8,279	8,361

**Appendix B
Demand Forecast
Expected Scenario**

Zone 11	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.86%	0.94%	0.87%	1.36%
Residential Therms	16,327,755	16,596,257	16,662,324	16,853,416	17,022,907	17,271,275	17,333,850	17,480,687	17,617,851	17,847,962
Commercial Therms	21,286,298	21,645,792	21,782,980	22,023,571	22,244,213	22,600,444	22,708,748	22,922,072	23,121,384	23,436,685
Industrial Therms	5,322,570	5,430,733	5,490,778	5,572,308	5,652,603	5,751,242	5,801,087	5,871,109	5,937,143	6,027,532
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	42,936,623	43,672,782	43,956,081	44,449,295	44,939,724	45,622,961	45,843,704	46,273,867	46,676,379	47,312,178
Daily BaseLoad Therms	30,603	30,441	30,478	30,917	31,826	32,432	32,579	32,589	32,538	33,359
Peak Day Therms	344,561	361,729	365,876	369,886	373,755	364,616	381,466	384,928	388,270	391,928
Therms Per Residential Customer	640	643	638	637	635	637	632	630	627	628
Therms Per Commercial Customer	4,109	4,125	4,099	4,092	4,086	4,097	4,067	4,057	4,044	4,051
Therms Per Industrial Customer	34,675	34,572	34,246	34,064	33,780	33,831	33,484	33,280	33,138	32,967
Residential Customers	25,500	25,825	26,150	26,474	26,798	27,122	27,445	27,768	28,090	28,414
Commercial Customers	5,181	5,248	5,315	5,382	5,449	5,516	5,583	5,651	5,717	5,785
Industrial Customers	154	157	160	164	167	170	173	176	179	183
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	30,835	31,230	31,625	32,019	32,414	32,808	33,202	33,595	33,987	34,382
Zone 20	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.59%	2.02%	0.99%	1.44%	1.43%	1.88%	0.85%	1.32%	1.27%	1.76%
Residential Therms	21,329,879	21,809,054	22,054,700	22,408,691	22,763,851	23,229,823	23,451,673	23,790,876	24,121,348	24,579,797
Commercial Therms	23,029,951	23,459,344	23,672,055	23,998,969	24,303,150	24,733,093	24,927,328	25,236,087	25,536,949	25,963,205
Industrial Therms	1,073,898	1,088,148	1,092,863	1,102,725	1,112,546	1,127,088	1,132,216	1,141,728	1,151,551	1,166,222
Ind., Inst., & Cmcl. Interrup. Therms	290,381	291,594	290,346	290,346	290,381	291,594	290,381	290,346	291,594	291,559
Total Core Therms	45,724,109	46,448,140	47,109,965	47,788,731	48,469,928	49,381,598	49,801,598	50,459,072	51,100,194	52,000,783
Daily BaseLoad Therms	39,373	40,001	40,451	40,342	41,282	42,220	42,727	43,213	43,646	43,436
Peak Day Therms	357,721	371,496	376,725	381,842	386,929	384,582	397,846	402,818	407,739	413,574
Therms Per Residential Customer	511	511	505	501	498	497	492	489	486	485
Therms Per Commercial Customer	4,181	4,185	4,152	4,138	4,125	4,132	4,100	4,088	4,076	4,084
Therms Per Industrial Customer	24,974	25,306	25,415	25,062	25,285	25,616	25,732	25,948	26,172	25,916
Residential Customers	41,711	42,715	43,715	44,711	45,707	46,703	47,696	48,687	49,677	50,667
Commercial Customers	5,509	5,606	5,702	5,797	5,891	5,986	6,080	6,173	6,266	6,358
Industrial Customers	43	43	43	44	44	44	44	44	44	45
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	47,265	48,365	49,461	50,554	51,645	52,735	53,822	54,906	55,989	57,072
Zone 24	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	4,923,550	4,992,796	5,009,687	5,052,849	5,096,686	5,166,195	5,182,465	5,224,936	5,266,254	5,336,102
Commercial Therms	4,701,008	4,774,981	4,800,650	4,850,771	4,901,766	4,976,846	5,002,375	5,052,590	5,101,945	5,178,084
Industrial Therms	772,867	792,231	807,207	824,827	843,225	864,255	880,673	899,933	919,409	941,787
Ind., Inst., & Cmcl. Interrup. Therms	913,780	918,270	913,648	913,649	913,780	918,270	913,777	913,778	913,651	918,141
Total Core Therms	11,311,205	11,478,277	11,531,192	11,642,096	11,755,458	11,925,566	11,979,290	12,091,238	12,201,260	12,374,114
Daily BaseLoad Therms	6,634	6,677	6,746	6,830	6,939	6,977	7,042	7,109	7,182	7,287
Peak Day Therms	90,818	93,832	94,676	95,520	96,363	95,264	98,218	99,061	99,903	100,919
Therms Per Residential Customer	604	607	603	603	603	606	602	602	601	604
Therms Per Commercial Customer	2,837	2,851	2,837	2,837	2,838	2,852	2,838	2,838	2,838	2,852
Therms Per Industrial Customer	22,620	22,798	22,738	22,806	22,888	22,945	22,924	22,977	22,937	23,159
Residential Customers	8,151	8,227	8,304	8,380	8,455	8,531	8,606	8,681	8,756	8,830
Commercial Customers	1,657	1,675	1,692	1,710	1,727	1,745	1,763	1,780	1,798	1,816
Industrial Customers	34	35	36	36	37	38	38	39	40	41
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	9,843	9,938	10,032	10,127	10,221	10,314	10,408	10,501	10,594	10,687
Zone 26	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,147,855	2,207,127	2,248,155	2,298,609	2,350,018	2,410,091	2,451,218	2,501,708	2,551,150	2,611,981
Commercial Therms	6,599,809	6,608,996	6,658,165	6,733,398	6,811,295	6,911,656	6,962,281	7,037,605	7,110,145	7,211,615
Industrial Therms	1,143,742	1,173,659	1,194,079	1,219,593	1,246,000	1,276,337	1,297,218	1,322,797	1,347,412	1,378,128
Ind., Inst., & Cmcl. Interrup. Therms	88,698	89,087	88,711	88,704	88,731	89,029	88,721	88,755	88,714	89,029
Total Core Therms	9,890,104	10,078,869	10,189,109	10,340,303	10,496,044	10,687,114	10,799,437	10,950,865	11,097,421	11,290,751
Daily BaseLoad Therms	9,515	9,421	9,550	9,294	8,842	10,340	10,190	10,251	10,380	8,251
Peak Day Therms	82,562	88,163	89,423	90,683	91,942	88,730	94,589	95,848	97,105	98,497
Therms Per Residential Customer	520	522	519	519	519	521	518	518	518	520
Therms Per Commercial Customer	4,410	4,411	4,380	4,366	4,353	4,357	4,330	4,316	4,304	4,307
Therms Per Industrial Customer	29,264	29,341	29,243	29,686	29,667	29,740	30,051	30,064	29,998	30,512
Residential Customers	4,131	4,230	4,330	4,429	4,529	4,629	4,728	4,828	4,927	5,027
Commercial Customers	1,476	1,498	1,520	1,542	1,565	1,586	1,608	1,630	1,652	1,674
Industrial Customers	39	40	41	41	42	43	43	44	45	45
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,647	5,770	5,892	6,014	6,137	6,259	6,380	6,503	6,625	6,747
Zone 30-S	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	29,811,257	30,339,219	30,600,027	30,995,222	31,393,920	31,928,805	32,186,152	32,581,444	32,973,061	33,514,791
Commercial Therms	17,904,741	18,200,485	18,345,754	18,567,061	18,790,938	19,090,452	19,234,575	19,455,936	19,674,634	19,977,710
Industrial Therms	695,410	701,978	702,749	706,469	710,292	716,931	721,467	725,086	728,691	731,800
Ind., Inst., & Cmcl. Interrup. Therms	1,676,333	1,682,778	1,676,204	1,676,204	1,676,333	1,682,778	1,676,333	1,676,333	1,676,204	1,682,649
Total Core Therms	50,087,740	50,924,460	51,324,734	51,944,955	52,571,482	53,418,966	53,814,805	54,435,100	55,048,984	55,906,950
Daily BaseLoad Therms	43,892	44,469	45,029	44,452	45,757	46,533	47,054	47,616	48,180	47,733
Peak Day Therms	378,846	389,909	394,687	399,644	404,238	403,052	414,122	418,896	423,666	428,785
Therms Per Residential Customer	677	681	677	677	676	679	676	675	675	678
Therms Per Commercial Customer	3,998	4,012	3,992	3,990	3,988	4,002	3,984	3,981	3,978	3,993
Therms Per Industrial Customer	24,836	25,071	25,098	25,231	25,368	25,605	25,634	25,767	25,896	26,136
Residential Customers	43,962	44,574	45,186	45,796	46,407	47,019	47,631	48,241	48,852	49,464
Commercial Customers	4,479	4,537	4,595	4,654	4,712	4,770	4,828	4,887	4,945	5,004
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	48,471	49,141	49,811	50,480	51,149	51,820	52,489	53,158	53,827	54,498

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Zone 30-W										
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	43,378,135	64,558,389	64,825,043	65,382,262	65,959,844	66,805,721	67,095,095	67,670,474	68,235,026	69,110,144
Commercial Therms	36,218,617	36,747,110	36,977,108	37,364,528	37,763,537	38,308,909	38,552,262	38,951,235	39,244,038	39,907,952
Industrial Therms	4,671,334	4,756,123	4,809,845	4,880,636	4,953,352	5,041,545	5,098,180	5,171,694	5,244,544	5,336,511
Ind., Inst., & Cncl. Interup. Therms	83,470	83,752	83,644	83,464	83,470	83,752	83,470	83,470	83,644	83,746
Total Core Therms	104,711,556	106,145,373	106,695,460	107,710,890	108,759,223	110,239,928	110,829,007	111,876,873	112,907,082	114,438,354
Daily BaseLoad Therms	77,233	78,294	79,011	60,483	67,603	81,173	81,829	82,576	83,339	63,643
Peak Day Therms	819,020	850,685	858,987	867,351	875,783	858,673	892,352	900,994	909,704	917,973
Therms Per Residential Customer	652	652	648	646	644	645	641	639	637	639
Therms Per Commercial Customer	2,981	2,984	2,962	2,954	2,946	2,950	2,931	2,924	2,916	2,921
Therms Per Industrial Customer	18,970	19,012	18,912	18,868	18,846	18,800	18,715	18,727	18,708	18,752
Residential Customers	97,791	98,946	100,101	101,255	102,409	103,566	104,722	105,880	107,036	108,197
Commercial Customers	12,148	12,315	12,483	12,650	12,818	12,987	13,155	13,323	13,492	13,661
Industrial Customers	246	250	254	259	263	268	272	276	280	285
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	110,186	111,512	112,839	114,165	115,491	116,822	118,150	119,480	120,810	122,143
Zone GTN										
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	50,851,798	52,325,288	53,245,633	54,443,683	55,649,579	57,148,559	58,051,362	59,250,280	60,441,078	61,965,941
Commercial Therms	25,389,784	25,859,989	26,061,406	26,398,531	26,740,399	27,217,884	27,416,897	27,754,292	28,087,015	28,572,200
Industrial Therms	3,522,004	4,038,756	4,107,497	4,195,577	4,284,764	4,392,952	4,461,188	4,549,256	4,636,156	4,745,851
Ind., Inst., & Cncl. Interup. Therms	292,876	294,556	292,939	292,939	293,016	294,556	293,016	292,939	294,479	294,479
Total Core Therms	80,466,662	82,518,589	83,707,475	85,330,730	86,967,758	89,023,961	90,222,463	91,846,845	93,457,188	95,578,470
Daily BaseLoad Therms	61,734	63,198	64,524	65,744	67,125	67,956	69,165	70,569	71,919	73,404
Peak Day Therms	758,677	787,049	802,710	818,367	834,023	836,071	865,551	881,214	896,878	912,766
Therms Per Residential Customer	767	771	767	766	767	770	766	766	766	770
Therms Per Commercial Customer	3,107	3,121	3,102	3,100	3,099	3,113	3,095	3,094	3,092	3,106
Therms Per Industrial Customer	27,321	27,381	27,157	27,170	27,133	27,215	27,106	27,119	27,099	27,210
Residential Customers	66,314	67,889	69,460	71,031	72,602	74,177	75,750	77,322	78,895	80,470
Commercial Customers	8,172	8,286	8,401	8,515	8,630	8,743	8,857	8,971	9,085	9,200
Industrial Customers	144	148	151	154	158	161	165	168	171	174
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	74,631	76,323	78,013	79,701	81,390	83,082	84,773	86,462	88,152	89,847
Zone ME-OR										
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	7,082,164	7,211,606	7,265,893	7,358,219	7,452,257	7,583,373	7,637,357	7,729,781	7,820,398	7,953,561
Commercial Therms	7,556,781	7,671,341	7,713,073	7,791,794	7,872,239	7,988,099	8,029,999	8,108,772	8,185,756	8,303,232
Industrial Therms	1,439,025	1,450,734	1,451,315	1,457,534	1,463,099	1,475,605	1,476,201	1,482,405	1,488,466	1,500,432
Ind., Inst., & Cncl. Interup. Therms	1,380,054	1,385,664	1,379,719	1,379,720	1,380,054	1,385,664	1,380,053	1,379,720	1,379,720	1,385,331
Total Core Therms	17,458,024	17,719,346	17,810,000	17,987,267	18,168,459	18,432,741	18,523,609	18,701,012	18,874,341	19,142,555
Daily BaseLoad Therms	15,612	15,782	15,930	16,021	16,243	16,300	16,450	16,611	16,767	16,878
Peak Day Therms	147,844	153,371	154,870	156,367	157,861	155,683	161,142	162,635	164,127	165,922
Therms Per Residential Customer	528	529	525	524	524	525	521	521	520	522
Therms Per Commercial Customer	3,524	3,537	3,516	3,512	3,510	3,523	3,502	3,499	3,495	3,508
Therms Per Industrial Customer	49,197	49,598	48,512	48,183	48,394	48,780	47,619	47,437	47,631	48,014
Residential Customers	13,423	13,625	13,828	14,030	14,232	14,435	14,638	14,840	15,041	15,244
Commercial Customers	2,144	2,169	2,194	2,218	2,243	2,268	2,293	2,318	2,342	2,367
Industrial Customers	29	29	30	30	30	30	31	31	31	31
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	15,599	15,825	16,053	16,280	16,507	16,735	16,963	17,191	17,417	17,644
Zone ME-WA										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,907,579	8,021,590	8,057,512	8,127,028	8,196,100	8,298,706	8,322,614	8,382,335	8,437,428	8,530,673
Commercial Therms	6,919,673	6,994,024	7,005,244	7,044,358	7,083,389	7,149,551	7,152,904	7,185,099	7,213,804	7,275,999
Industrial Therms	265,924	272,547	276,817	281,988	287,139	292,236	296,890	301,605	306,102	311,776
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	15,093,176	15,288,161	15,339,573	15,453,372	15,566,629	15,741,493	15,772,408	15,869,039	15,957,334	16,115,644
Daily BaseLoad Therms	12,335	12,368	12,390	12,475	12,616	12,760	12,849	12,850	12,846	12,965
Peak Day Therms	171,404	175,423	176,895	178,267	179,602	178,200	182,047	183,214	184,313	185,319
Therms Per Residential Customer	576	577	572	569	567	566	561	558	555	555
Therms Per Commercial Customer	4,549	4,542	4,495	4,468	4,442	4,432	4,386	4,358	4,329	4,320
Therms Per Industrial Customer	10,817	10,866	10,647	10,777	10,635	10,728	10,603	10,400	10,495	10,393
Residential Customers	13,721	13,909	14,096	14,281	14,467	14,651	14,835	15,018	15,200	15,381
Commercial Customers	1,521	1,540	1,558	1,577	1,595	1,613	1,631	1,649	1,666	1,684
Industrial Customers	25	25	26	26	27	27	28	29	29	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	15,267	15,474	15,680	15,884	16,088	16,291	16,493	16,695	16,895	17,095
Oregon										
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	62,857,513	64,529,690	65,521,213	66,854,752	68,188,522	69,898,128	70,871,183	72,204,998	73,527,731	75,255,604
Commercial Therms	37,647,573	38,306,310	38,575,129	39,041,096	39,514,404	40,182,829	40,449,271	40,915,654	41,374,716	42,053,516
Industrial Therms	4,143,896	6,281,721	6,366,020	6,477,938	6,591,898	6,732,812	6,818,062	6,931,595	7,044,031	7,188,070
Ind., Inst., & Cncl. Interup. Therms	2,538,850	2,598,490	2,598,306	2,598,308	2,598,850	2,598,490	2,598,846	2,598,848	2,598,310	2,597,950
Total Core Therms	109,235,621	111,716,212	113,068,667	114,960,092	116,891,674	119,412,258	120,725,363	122,639,094	124,532,788	127,095,140
Daily BaseLoad Therms	83,980	85,657	87,201	88,596	90,317	91,233	92,658	94,289	95,868	97,549
Peak Day Therms	997,339	1,034,252	1,052,256	1,070,253	1,088,247	1,087,018	1,124,911	1,142,911	1,160,908	1,179,606
Therms Per Residential Customer	715	719	715	715	716	720	716	716	716	720
Therms Per Commercial Customer	3,144	3,158	3,139	3,138	3,136	3,150	3,132	3,131	3,129	3,143
Therms Per Industrial Customer	29,633	29,701	29,382	29,334	29,254	29,358	29,137	29,104	29,058	29,180
Residential Customers	87,888	89,741	91,591	93,440	95,289	97,143	98,993	100,843	102,691	104,546
Commercial Customers	11,973	12,130	12,287	12,443	12,600	12,756	12,913	13,069	13,225	13,382
Industrial Customers	207	212	217	221	225	229	234	238	242	246
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	100,073	102,087	104,099	106,108	108,118	110,131	112,144	114,154	116,162	118,178

**Appendix B
Demand Forecast
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Washington										
Total Therms Pct. Growth	1.21%	1.63%	0.70%	1.14%	1.14%	1.54%	0.63%	1.06%	1.01%	1.46%
Residential Therms	144,881,111	147,193,275	148,137,548	149,759,855	151,404,140	153,704,902	154,606,840	156,195,398	157,742,595	160,038,941
Commercial Therms	120,536,954	122,551,214	123,492,114	124,955,905	126,437,482	128,418,422	129,295,430	130,704,017	132,063,274	134,014,195
Industrial Therms	14,972,821	15,236,675	15,379,318	15,582,213	15,787,638	16,044,784	16,180,524	16,373,033	16,558,583	16,810,636
Ind., Inst., & Cmcl. Interup. Therms	2,209,272	2,218,032	2,209,741	2,210,074	2,210,640	2,219,168	2,211,085	2,211,425	2,211,417	2,220,062
Total Core Therms	282,600,157	287,199,195	289,218,721	292,508,047	295,841,900	300,387,276	302,293,879	305,483,873	308,575,869	313,083,855
Daily BaseLoad Therms	224,457	225,404	227,454	205,956	219,389	238,051	238,455	240,449	242,371	220,509
Peak Day Therms	2,233,840	2,327,376	2,353,534	2,379,369	2,405,022	2,361,913	2,457,088	2,482,155	2,507,018	2,533,250
Therms Per Residential Customer	622	623	618	616	614	615	610	608	606	607
Therms Per Commercial Customer	3,778	3,787	3,764	3,757	3,751	3,760	3,737	3,729	3,720	3,728
Therms Per Industrial Customer	25,098	25,091	24,946	24,912	24,856	24,856	24,709	24,674	24,656	24,655
Residential Customers	232,784	236,228	239,666	243,096	246,527	249,961	253,389	256,814	260,235	263,663
Commercial Customers	31,908	32,359	32,809	33,257	33,707	34,155	34,602	35,050	35,498	35,946
Industrial Customers	597	607	617	626	635	646	655	664	672	682
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	265,295	269,201	273,098	276,986	280,875	284,769	288,653	292,535	296,412	300,298
System										
Total Therms Pct. Growth	1.37%	1.81%	0.84%	1.29%	1.29%	1.71%	0.77%	1.21%	1.16%	1.63%
Residential Therms	207,738,623	211,722,965	213,658,761	216,614,607	219,604,662	223,603,030	225,478,024	228,400,396	231,270,326	235,294,565
Commercial Therms	158,184,527	160,857,525	162,067,243	163,997,000	165,951,886	168,601,250	169,744,701	171,619,671	173,437,991	176,067,711
Industrial Therms	21,116,717	21,518,396	21,745,338	22,060,150	22,379,536	22,777,595	22,998,586	23,304,628	23,602,615	23,996,706
Ind., Inst., & Cmcl. Interup. Therms	4,796,122	4,816,522	4,796,047	4,796,382	4,797,490	4,817,659	4,797,931	4,798,274	4,797,726	4,818,012
Total Core Therms	391,835,989	398,915,408	402,267,389	407,468,140	412,733,574	419,795,534	423,019,242	428,122,968	433,108,657	440,176,994
Daily BaseLoad Therms	308,437	311,061	314,655	294,552	309,706	329,284	331,113	334,739	338,239	318,078
Peak Day Therms	3,231,179	3,361,628	3,405,789	3,449,622	3,493,249	3,448,931	3,581,999	3,625,066	3,667,926	3,712,856
Therms Per Residential Customer	1,315	1,323	1,320	1,323	1,327	1,336	1,334	1,338	1,341	1,352
Therms Per Commercial Customer	4,373	4,408	4,397	4,413	4,423	4,461	4,449	4,463	4,473	4,507
Therms Per Industrial Customer	56,859	57,697	57,895	58,419	58,957	59,800	59,994	60,509	61,009	61,860
Residential Customers	320,672	325,969	331,257	336,536	341,815	347,104	352,382	357,657	362,927	368,209
Commercial Customers	43,881	44,489	45,096	45,700	46,307	46,911	47,515	48,119	48,723	49,328
Industrial Customers	804	819	833	846	861	875	889	902	914	928
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	365,368	371,287	377,197	383,094	388,994	394,901	400,797	406,689	412,574	418,476

**Appendix B
Demand Forecast
High Scenario**

7th Day School	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,383	30,375	30,378	30,562	30,372	30,374	30,377	30,563	30,372	30,374
Daily BaseLoad Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	233	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.23%	0.25%	0.67%	-0.15%	0.26%	0.26%	0.63%	-0.11%	0.26%
Residential Therms	54,454	54,659	54,875	55,323	55,322	55,545	55,770	56,207	56,230	56,462
Commercial Therms	31,823	31,818	31,818	31,950	31,823	31,823	31,823	31,941	31,823	31,823
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	86,277	86,478	86,693	87,273	87,145	87,368	87,593	88,149	88,052	88,285
Daily BaseLoad Therms	59	59	59	59	59	59	60	60	60	60
Peak Day Therms	798	800	802	792	794	808	811	813	815	805
Therms Per Residential Customer	801	804	790	796	796	799	802	792	792	795
Therms Per Commercial Customer	3,536	3,535	3,535	3,550	3,536	3,536	3,536	3,549	3,536	3,536
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	68	68	70	70	70	70	70	71	71	71
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	77	77	79	79	79	79	79	80	80	80
Arlington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.13%	1.08%	1.52%	0.67%	1.09%	1.08%	1.43%	0.68%	1.04%
Residential Therms	3,427,088	3,447,186	3,467,044	3,502,791	3,508,446	3,529,254	3,549,948	3,584,057	3,591,059	3,611,628
Commercial Therms	2,163,221	2,203,291	2,241,653	2,290,264	2,320,651	2,360,848	2,400,826	2,449,271	2,480,273	2,520,008
Industrial Therms	448,475	456,425	464,080	473,811	479,839	487,861	495,838	505,517	511,682	519,611
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,038,785	6,106,902	6,172,776	6,266,866	6,308,937	6,377,962	6,446,612	6,538,845	6,583,013	6,651,246
Daily BaseLoad Therms	5,563	5,678	5,749	5,765	5,790	5,863	5,983	6,087	6,164	6,187
Peak Day Therms	48,203	48,734	49,238	48,322	48,828	50,822	51,347	51,893	52,416	51,393
Therms Per Residential Customer	707	703	700	700	694	691	687	687	681	678
Therms Per Commercial Customer	3,409	3,365	3,323	3,296	3,244	3,209	3,172	3,148	3,104	3,072
Therms Per Industrial Customer	15,465	15,739	16,876	17,229	17,449	17,740	18,030	19,423	19,660	19,964
Residential Customers	4,849	4,901	4,953	5,005	5,058	5,111	5,164	5,218	5,271	5,325
Commercial Customers	635	655	675	695	715	736	757	778	799	820
Industrial Customers	29	29	28	28	28	28	28	26	26	26
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,512	5,584	5,655	5,728	5,801	5,874	5,948	6,022	6,096	6,171
Athens	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.10%	2.13%	2.51%	1.66%	2.00%	1.98%	2.13%	1.72%	1.83%
Residential Therms	318,195	321,518	325,057	329,920	332,261	335,784	339,385	343,570	346,552	350,010
Commercial Therms	136,477	137,630	138,885	140,746	141,457	142,704	143,961	145,532	146,519	147,745
Industrial Therms	33,415	39,206	45,029	51,074	56,705	62,524	68,346	74,350	80,046	85,844
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	488,087	498,354	508,971	521,740	530,424	541,012	551,713	563,452	573,117	583,000
Daily BaseLoad Therms	188	201	171	170	188	191	204	191	222	174
Peak Day Therms	3,896	3,987	4,077	3,728	3,810	4,362	4,452	4,557	4,647	4,231
Therms Per Residential Customer	600	594	588	584	576	571	565	561	555	549
Therms Per Commercial Customer	2,042	2,025	2,018	2,004	1,971	1,951	1,934	1,925	1,911	1,895
Therms Per Industrial Customer	33,415	18,450	17,451	19,793	21,976	14,359	15,051	16,373	17,628	12,603
Residential Customers	530	541	553	565	577	588	601	613	624	637
Commercial Customers	67	69	70	72	73	74	76	77	77	78
Industrial Customers	1	2	3	3	3	4	5	5	5	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	598	612	625	638	651	666	680	693	706	722
Baker	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.06%	1.06%	1.57%	0.56%	1.04%	1.03%	1.47%	0.58%	1.01%
Residential Therms	2,401,466	2,420,190	2,439,251	2,471,137	2,477,706	2,496,409	2,514,891	2,544,868	2,551,543	2,569,584
Commercial Therms	1,672,143	1,687,509	1,703,221	1,727,787	1,735,149	1,750,868	1,766,588	1,790,209	1,798,106	1,813,825
Industrial Therms	155,194	165,770	176,333	187,724	198,333	209,667	221,461	234,010	246,001	258,713
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,228,802	4,273,469	4,318,805	4,386,648	4,411,188	4,456,945	4,502,940	4,569,087	4,596,649	4,642,123
Daily BaseLoad Therms	2,205	2,244	2,280	2,332	2,352	2,389	2,430	2,474	2,530	2,568
Peak Day Therms	41,040	41,424	41,808	41,182	41,554	42,976	43,359	43,759	44,142	43,429
Therms Per Residential Customer	707	704	700	701	694	691	688	688	682	680
Therms Per Commercial Customer	3,228	3,213	3,200	3,204	3,175	3,164	3,153	3,154	3,131	3,119
Therms Per Industrial Customer	51,731	55,257	58,778	62,575	66,111	69,889	73,820	78,003	82,000	86,238
Residential Customers	3,397	3,440	3,483	3,526	3,569	3,612	3,654	3,697	3,739	3,781
Commercial Customers	518	525	532	539	546	553	560	568	574	582
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,918	3,968	4,018	4,068	4,118	4,168	4,218	4,267	4,316	4,365

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Bend Loop										
Total Therms Pct. Growth		2.74%	2.64%	3.11%	1.99%	2.45%	2.39%	2.84%	1.79%	2.23%
Residential Therms	28,481,892	29,394,014	30,304,181	31,381,660	32,133,467	33,045,828	33,958,449	35,045,677	35,787,528	36,701,035
Commercial Therms	13,293,087	13,518,763	13,733,496	14,021,067	14,166,291	14,382,092	14,598,044	14,886,402	15,031,306	15,247,808
Industrial Therms	772,798	799,995	826,990	857,771	881,620	909,099	936,645	967,970	991,949	1,019,499
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	42,547,777	43,712,773	44,864,666	46,260,498	47,181,378	48,337,019	49,493,177	50,900,049	51,810,782	52,968,542
Daily Baseload Therms	20,969	21,744	22,416	22,983	23,539	24,206	24,993	25,791	26,465	27,010
Peak Day Therms	414,701	425,889	437,051	443,270	454,332	470,731	481,930	493,261	504,472	509,855
Therms Per Residential Customer	801	790	778	772	758	748	738	733	720	712
Therms Per Commercial Customer	3,076	3,053	3,029	3,020	2,982	2,959	2,936	2,928	2,892	2,871
Therms Per Industrial Customer	22,509	21,357	20,392	19,610	18,752	18,047	17,358	16,838	16,237	15,705
Residential Customers	35,553	37,229	38,928	40,658	42,411	44,189	45,991	47,823	49,675	51,551
Commercial Customers	4,321	4,428	4,534	4,643	4,751	4,861	4,972	5,084	5,197	5,310
Industrial Customers	34	37	41	44	47	50	54	57	61	65
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	39,908	41,694	43,503	45,344	47,209	49,100	51,017	52,964	54,933	56,926
Bremerton (Shelton)										
Total Therms Pct. Growth		1.51%	1.49%	1.91%	1.02%	1.42%	1.40%	1.80%	0.95%	1.35%
Residential Therms	24,419,847	24,796,129	25,174,513	25,667,571	25,935,184	26,313,633	26,692,083	27,184,816	27,450,504	27,828,955
Commercial Therms	13,064,749	13,279,344	13,493,821	13,766,537	13,924,932	14,139,441	14,353,950	14,626,393	14,783,835	14,998,345
Industrial Therms	463,670	469,824	476,015	484,301	488,462	494,654	500,846	509,118	513,254	519,446
Ind., Inst., & Cncl. Interup. Therms	1,757,447	1,759,943	1,760,012	1,766,917	1,760,150	1,760,150	1,766,645	1,760,150	1,760,150	1,760,150
Total Core Therms	39,705,712	40,305,240	40,904,361	41,685,325	42,108,728	42,707,877	43,307,028	44,086,972	44,507,744	45,106,895
Daily Baseload Therms	34,633	35,193	35,712	36,206	36,645	37,163	37,722	38,254	38,815	39,293
Peak Day Therms	313,286	317,982	322,678	323,918	328,540	336,960	341,641	346,535	351,228	351,959
Therms Per Residential Customer	714	708	702	700	691	686	680	678	670	665
Therms Per Commercial Customer	4,113	4,077	4,042	4,026	3,976	3,943	3,911	3,896	3,850	3,821
Therms Per Industrial Customer	30,911	31,322	31,734	32,287	32,564	32,977	33,390	33,941	34,217	34,630
Residential Customers	34,179	35,006	35,840	36,683	37,530	38,384	39,244	40,112	40,985	41,864
Commercial Customers	3,176	3,257	3,338	3,420	3,503	3,586	3,670	3,754	3,840	3,925
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	37,372	38,280	39,195	40,120	41,050	41,987	42,931	43,883	44,841	45,807
Brouillette Hop										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,383	30,375	30,378	30,562	30,372	30,374	30,377	30,563	30,372	30,374
Daily Baseload Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	234	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth		2.69%	2.40%	2.86%	1.75%	2.24%	2.12%	2.48%	1.49%	1.80%
Residential Therms	6,638,121	6,828,422	7,001,528	7,211,170	7,345,279	7,518,481	7,685,338	7,863,154	8,006,168	8,162,090
Commercial Therms	4,987,467	5,115,192	5,233,549	5,378,791	5,469,325	5,587,938	5,703,040	5,841,439	5,926,194	6,035,328
Industrial Therms	284,789	286,845	288,956	292,290	293,252	295,383	297,525	300,735	301,820	303,983
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	11,910,377	12,230,459	12,524,033	12,882,252	13,107,855	13,401,803	13,685,923	14,025,327	14,234,183	14,501,400
Daily Baseload Therms	9,251	9,473	9,131	9,193	10,162	10,358	10,546	10,299	10,679	10,265
Peak Day Therms	76,171	78,124	79,883	79,279	80,953	85,592	87,279	89,430	91,046	89,430
Therms Per Residential Customer	548	535	523	514	500	490	480	472	461	452
Therms Per Commercial Customer	4,200	4,140	4,085	4,054	3,982	3,933	3,884	3,856	3,796	3,755
Therms Per Industrial Customer	21,907	22,065	22,227	22,484	22,558	22,722	22,887	23,133	23,217	23,383
Residential Customers	12,118	12,752	13,386	14,031	14,685	15,350	16,020	16,699	17,385	18,077
Commercial Customers	1,188	1,235	1,281	1,327	1,373	1,421	1,468	1,515	1,561	1,607
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,319	14,000	14,680	15,371	16,072	16,783	17,502	18,227	18,959	19,698
Castle Rock										
Total Therms Pct. Growth		0.21%	0.20%	0.62%	-0.22%	0.20%	0.20%	0.65%	-0.25%	0.20%
Residential Therms	37,394	37,848	38,299	38,942	39,201	39,654	40,107	40,771	41,016	41,471
Commercial Therms	147,467	147,407	147,331	147,838	147,161	147,083	147,005	147,557	146,848	146,768
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	184,861	185,255	185,630	186,780	186,362	186,737	187,112	188,328	187,864	188,239
Daily Baseload Therms	254	254	254	256	255	255	255	255	256	256
Peak Day Therms	1,233	1,235	1,238	1,261	1,264	1,247	1,250	1,254	1,256	1,279
Therms Per Residential Customer	506	490	473	459	443	429	417	406	393	383
Therms Per Commercial Customer	3,072	3,071	3,069	3,080	3,066	3,064	3,063	3,074	3,059	3,058
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	74	77	81	85	89	93	96	100	104	108
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	122	125	129	133	137	141	144	148	152	156

**Appendix B
Demand Forecast
High Scenario**

Chemult	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.08%	0.07%	0.58%	-0.44%	0.07%	0.06%	0.58%	-0.46%	0.06%
Residential Therms	14,158	14,201	14,243	14,354	14,325	14,363	14,400	14,504	14,468	14,499
Commercial Therms	43,390	43,393	43,393	43,617	43,392	43,392	43,392	43,620	43,392	43,392
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	57,549	57,594	57,636	57,971	57,717	57,755	57,792	58,125	57,860	57,891
Daily Baseload Therms	46	46	46	46	46	46	46	46	46	46
Peak Day Therms	416	417	417	419	419	418	418	419	419	420
Therms Per Residential Customer	545	546	548	552	551	552	554	558	556	527
Therms Per Commercial Customer	2,170	2,170	2,170	2,181	2,170	2,170	2,170	2,181	2,170	2,170
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	26	26	26	26	26	26	26	26	26	28
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	46	46	46	46	46	46	46	46	46	48
Dehawn Dairy	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%
Residential Therms	4,056	4,057	4,057	4,068	4,056	4,056	4,056	4,068	4,056	4,056
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,056	4,057	4,057	4,068	4,056	4,056	4,056	4,068	4,056	4,056
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	12	12	12	12	12	12	12	12	12	12
Therms Per Residential Customer	2,028	2,028	2,028	2,034	2,028	2,028	2,028	2,034	2,028	2,028
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.05%	0.14%	0.70%	-0.31%	0.15%	0.15%	0.45%	-0.17%	0.15%
Residential Therms	15,420	15,407	15,407	15,491	15,421	15,421	15,420	15,467	15,419	15,418
Commercial Therms	100,626	100,696	100,855	101,585	101,286	101,466	102,123	102,123	101,974	102,149
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	116,046	116,103	116,262	117,076	116,707	116,886	117,063	117,590	117,393	117,568
Daily Baseload Therms	54	53	44	46	54	54	54	45	56	46
Peak Day Therms	1,133	1,134	1,135	1,038	1,039	1,140	1,141	1,143	1,144	1,045
Therms Per Residential Customer	642	642	642	645	643	643	642	644	644	642
Therms Per Commercial Customer	7,740	7,746	7,758	7,814	7,791	7,805	7,819	7,856	7,844	7,858
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.23%	1.21%	1.63%	0.76%	1.16%	1.15%	1.54%	0.73%	1.11%
Residential Therms	5,772,548	5,849,395	5,926,763	6,030,617	6,082,403	6,159,786	6,237,168	6,340,597	6,392,238	6,449,621
Commercial Therms	3,716,994	3,745,106	3,812,045	3,875,486	3,904,533	3,953,539	4,000,570	4,063,673	4,094,867	4,141,980
Industrial Therms	508,954	507,667	506,418	506,787	504,021	502,772	501,524	501,763	499,088	497,840
Ind., Inst., & Cmcl. Interup. Therms	87,633	87,637	87,637	87,940	87,644	87,644	87,644	87,927	87,644	87,644
Total Core Therms	10,086,149	10,209,805	10,332,863	10,500,830	10,580,601	10,703,741	10,826,906	10,993,960	11,073,837	11,197,084
Daily Baseload Therms	9,477	9,617	9,728	9,802	9,876	9,979	10,118	10,261	10,369	10,443
Peak Day Therms	76,087	76,996	77,906	77,875	78,773	80,704	81,614	82,596	83,506	83,334
Therms Per Residential Customer	673	668	663	662	655	650	646	645	638	634
Therms Per Commercial Customer	3,724	3,691	3,656	3,638	3,592	3,561	3,530	3,514	3,471	3,443
Therms Per Industrial Customer	169,651	169,222	168,806	168,929	168,007	167,591	167,175	167,254	166,363	165,947
Residential Customers	8,581	8,757	8,933	9,112	9,291	9,471	9,652	9,835	10,019	10,204
Commercial Customers	998	1,020	1,043	1,065	1,088	1,110	1,133	1,157	1,180	1,203
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	9,583	9,781	9,980	10,181	10,382	10,585	10,790	10,996	11,203	11,411
Finley	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.34%	1.24%	1.87%	0.66%	1.26%	1.23%	1.75%	0.69%	1.21%
Residential Therms	18,527	18,792	19,055	19,433	19,594	19,866	20,138	20,514	20,685	20,960
Commercial Therms	68,827	69,733	70,566	71,866	72,310	73,192	74,068	75,340	75,827	76,721
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	87,354	88,525	89,621	91,299	91,904	93,058	94,206	95,854	96,512	97,682
Daily Baseload Therms	23	24	7	6	24	25	26	7	15	7
Peak Day Therms	684	692	698	690	697	727	734	748	756	738
Therms Per Residential Customer	607	592	577	562	542	529	514	506	492	483
Therms Per Commercial Customer	5,294	5,364	5,428	5,528	5,562	5,630	5,698	5,795	5,833	5,902
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	31	32	33	35	36	38	39	41	42	43
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	44	45	46	48	49	51	52	54	55	56

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Gilchrist										
Total Therms Pct. Growth		0.88%	0.86%	1.36%	0.29%	0.76%	0.73%	1.20%	0.13%	0.61%
Residential Therms	123,019	124,145	125,296	127,010	127,480	128,595	129,491	131,063	131,305	132,141
Commercial Therms	150,050	151,317	152,568	154,634	154,983	156,118	157,209	159,097	159,213	160,138
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	273,069	275,462	277,865	281,652	282,463	284,623	286,700	290,151	290,518	292,279
Daily BaseLoad Therms	152	153	154	156	157	158	159	161	162	163
Peak Day Therms	2,155	2,174	2,192	2,206	2,224	2,246	2,261	2,278	2,292	2,300
Therms Per Residential Customer	661	657	663	669	670	675	680	688	688	691
Therms Per Commercial Customer	3,262	3,289	3,212	3,255	3,263	3,287	3,207	3,246	3,246	3,267
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	189	189	189	190	190	191	191	191	191	191
Commercial Customers	46	46	48	48	48	48	49	49	49	49
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	235	235	237	237	238	238	240	240	240	240
Grandview										
Total Therms Pct. Growth		6.67%	6.27%	6.17%	5.19%	5.06%	4.72%	4.49%	4.02%	3.86%
Residential Therms	596,100	603,176	610,550	620,623	625,452	632,505	639,454	647,862	652,832	659,271
Commercial Therms	2,308,821	2,498,639	2,688,601	2,884,666	3,064,388	3,246,304	3,424,622	3,600,591	3,768,583	3,934,370
Industrial Therms	45,046	45,017	45,014	45,284	45,046	45,045	45,044	45,226	45,043	45,046
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,949,967	3,146,832	3,344,165	3,550,573	3,734,886	3,923,854	4,109,121	4,293,679	4,466,458	4,638,687
Daily BaseLoad Therms	2,000	2,132	2,993	3,214	3,375	2,796	2,888	4,002	4,235	4,430
Peak Day Therms	14,641	15,230	15,814	13,965	14,389	17,580	18,125	18,727	19,244	16,434
Therms Per Residential Customer	595	591	587	586	580	577	572	570	565	561
Therms Per Commercial Customer	12,109	12,737	13,354	13,948	14,441	14,916	15,348	15,747	16,089	16,403
Therms Per Industrial Customer	4,505	4,502	4,501	4,528	4,505	4,504	4,504	4,523	4,504	4,505
Residential Customers	1,002	1,021	1,040	1,059	1,078	1,097	1,117	1,137	1,156	1,176
Commercial Customers	191	196	201	207	212	218	223	229	234	240
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,202	1,227	1,251	1,275	1,300	1,325	1,350	1,375	1,400	1,426
Hermiston										
Total Therms Pct. Growth		1.31%	1.32%	1.84%	0.80%	1.27%	1.26%	1.68%	0.80%	1.21%
Residential Therms	2,418,346	2,462,350	2,507,107	2,566,442	2,597,680	2,642,466	2,687,251	2,745,007	2,777,007	2,821,793
Commercial Therms	3,172,782	3,214,625	3,257,421	3,316,779	3,344,180	3,386,980	3,429,799	3,486,924	3,515,658	3,558,433
Industrial Therms	192,334	192,287	192,287	193,301	192,334	192,334	192,334	193,207	192,334	192,334
Ind., Inst., & Cncl. Interup. Therms	744,038	743,795	743,796	747,224	744,038	744,039	744,040	746,738	744,038	744,039
Total Core Therms	6,527,500	6,613,058	6,700,612	6,823,746	6,878,232	6,965,819	7,053,424	7,171,875	7,229,037	7,316,598
Daily BaseLoad Therms	6,414	6,484	6,563	6,688	6,737	6,815	6,886	6,950	7,077	7,163
Peak Day Therms	49,536	50,190	50,842	49,543	50,169	52,954	53,604	54,417	55,068	53,450
Therms Per Residential Customer	559	553	547	545	536	531	526	523	516	511
Therms Per Commercial Customer	4,149	4,121	4,096	4,091	4,048	4,024	4,001	3,993	3,955	3,922
Therms Per Industrial Customer	24,042	24,036	24,036	24,163	24,042	24,042	24,042	24,151	24,042	24,042
Residential Customers	4,326	4,453	4,582	4,712	4,844	4,976	5,109	5,244	5,381	5,518
Commercial Customers	765	780	795	811	826	842	857	873	889	905
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,100	5,242	5,386	5,532	5,679	5,826	5,976	6,127	6,279	6,431
Huntington										
Total Therms Pct. Growth		2.37%	2.33%	2.94%	1.67%	2.23%	2.22%	2.77%	1.61%	2.15%
Residential Therms	49,165	70,489	71,824	73,621	74,562	75,929	77,312	79,141	80,125	81,550
Commercial Therms	30,842	31,888	32,939	34,222	35,085	36,166	37,275	38,625	39,541	40,694
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	100,007	102,376	104,763	107,843	109,647	112,095	114,588	117,766	119,666	122,243
Daily BaseLoad Therms	10	11	11	10	10	10	11	12	12	12
Peak Day Therms	1,122	1,148	1,174	1,181	1,207	1,255	1,281	1,311	1,338	1,342
Therms Per Residential Customer	517	513	511	512	506	504	501	502	497	494
Therms Per Commercial Customer	1,918	1,827	1,746	1,764	1,682	1,628	1,561	1,518	1,494	1,472
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	134	137	140	144	147	151	154	158	161	165
Commercial Customers	16	17	19	19	21	22	24	25	26	28
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	150	155	159	163	168	173	178	183	188	193

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
LDS Church										
Total Therms Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,591	5,589	5,589	5,614	5,589	5,589	5,589	5,614	5,589	5,589
Commercial Therms	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	11,010	11,008	11,008	11,062	11,008	11,008	11,008	11,062	11,008	11,008
Daily BaseLoad Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	63	63	63	63	63	63	63	63	63	63
Therms Per Residential Customer	1,397	1,397	1,397	1,404	1,397	1,397	1,397	1,404	1,397	1,397
Therms Per Commercial Customer	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5
Longview South Loop										
Total Therms Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,213,888	1,246,138	1,278,724	1,316,491	1,344,432	1,377,015	1,409,591	1,446,607	1,474,864	1,507,415
Commercial Therms	4,745,404	4,804,758	4,865,428	4,944,762	4,988,479	5,049,183	5,109,888	5,185,805	5,231,552	5,292,257
Industrial Therms	208,277	204,297	200,380	197,102	192,575	188,671	184,772	181,310	176,952	173,071
Ind., Inst., & Cmcl. Interrup. Therms	93,191	93,148	93,141	93,494	93,130	93,463	93,463	93,163	93,163	93,145
Total Core Therms	6,260,360	6,348,242	6,437,874	6,551,849	6,618,616	6,708,028	6,797,445	6,907,175	6,976,532	7,065,888
Daily BaseLoad Therms	5,301	5,372	5,375	4,131	5,674	5,730	5,678	4,010	4,939	4,455
Peak Day Therms	61,808	62,652	63,495	62,612	66,147	66,147	66,988	67,940	68,802	67,442
Therms Per Residential Customer	580	570	561	555	544	536	529	523	514	507
Therms Per Commercial Customer	5,098	5,045	4,995	4,964	4,898	4,853	4,807	4,778	4,720	4,678
Therms Per Industrial Customer	16,021	15,715	15,414	15,162	14,813	14,513	14,213	13,947	13,612	13,313
Residential Customers	2,092	2,185	2,279	2,374	2,470	2,568	2,667	2,767	2,868	2,971
Commercial Customers	931	952	974	996	1,018	1,040	1,063	1,085	1,108	1,131
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	3,037	3,151	3,267	3,384	3,503	3,623	3,744	3,867	3,991	4,116
Madras										
Total Therms Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	752,687	763,717	775,000	790,798	797,964	809,420	820,876	836,371	843,780	855,265
Commercial Therms	1,305,469	1,317,918	1,330,776	1,350,917	1,357,072	1,370,127	1,383,181	1,402,599	1,409,289	1,422,376
Industrial Therms	965,980	975,496	985,311	1,000,886	1,005,355	1,015,321	1,025,287	1,040,361	1,045,199	1,055,190
Ind., Inst., & Cmcl. Interrup. Therms	307,667	307,586	307,586	309,284	307,667	307,667	307,667	309,121	307,667	307,667
Total Core Therms	3,331,804	3,364,717	3,398,673	3,451,885	3,468,059	3,502,535	3,537,011	3,588,451	3,605,936	3,640,497
Daily BaseLoad Therms	1,639	1,675	1,695	1,694	1,696	1,715	1,753	1,789	1,809	1,810
Peak Day Therms	28,729	29,028	29,328	28,721	29,015	30,229	30,533	30,827	31,132	30,485
Therms Per Residential Customer	568	556	545	538	525	516	507	501	490	482
Therms Per Commercial Customer	3,419	3,436	3,443	3,479	3,470	3,484	3,496	3,520	3,519	3,527
Therms Per Industrial Customer	53,666	54,194	54,740	55,605	55,853	56,407	56,960	57,798	58,067	58,622
Residential Customers	1,325	1,373	1,421	1,470	1,519	1,569	1,619	1,670	1,721	1,773
Commercial Customers	382	384	386	388	391	393	396	398	400	403
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,726	1,776	1,827	1,877	1,929	1,981	2,034	2,087	2,141	2,196
McCleary (Aberdeen/Hoquiam)										
Total Therms Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,726,619	2,764,269	2,800,768	2,850,625	2,874,924	2,911,474	2,948,023	2,995,646	3,021,272	3,057,836
Commercial Therms	3,408,272	3,424,933	3,442,763	3,475,440	3,479,813	3,497,608	3,515,412	3,544,750	3,551,289	3,569,236
Industrial Therms	227,536	225,161	222,859	221,429	218,323	216,026	213,729	212,053	209,127	206,833
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,364,428	6,414,363	6,466,390	6,547,494	6,573,060	6,625,108	6,677,225	6,752,449	6,781,688	6,833,907
Daily BaseLoad Therms	5,975	6,002	6,024	6,086	6,139	6,168	6,196	6,254	6,282	6,310
Peak Day Therms	39,922	40,251	40,579	38,894	39,206	41,683	42,011	42,461	42,789	40,883
Therms Per Residential Customer	743	735	727	723	713	706	700	695	686	680
Therms Per Commercial Customer	4,738	4,714	4,696	4,696	4,660	4,639	4,623	4,617	4,584	4,567
Therms Per Industrial Customer	17,503	17,320	17,143	17,033	16,794	16,617	16,441	16,312	16,087	15,910
Residential Customers	3,672	3,761	3,850	3,940	4,031	4,122	4,214	4,307	4,401	4,496
Commercial Customers	719	727	733	740	747	754	760	768	775	782
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,404	4,500	4,596	4,693	4,791	4,889	4,988	5,088	5,189	5,290
Milton-Freewater										
Total Therms Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	115,842	117,095	118,389	120,386	121,032	122,327	123,621	125,524	126,225	127,519
Commercial Therms	332,753	337,927	343,227	350,295	353,994	359,298	364,602	371,357	375,236	380,539
Industrial Therms	20,210	19,503	18,802	18,208	17,410	16,709	16,008	15,383	14,610	13,909
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	468,804	474,525	480,418	488,889	492,436	498,334	504,231	512,264	516,071	521,968
Daily BaseLoad Therms	392	393	384	391	417	423	425	413	422	422
Peak Day Therms	5,358	5,425	5,493	5,383	5,448	5,696	5,763	5,831	5,898	5,774
Therms Per Residential Customer	467	457	448	442	431	423	416	410	401	395
Therms Per Commercial Customer	3,105	3,067	3,032	3,013	2,966	2,935	2,903	2,885	2,844	2,816
Therms Per Industrial Customer	4,755	4,589	4,424	4,284	4,097	3,932	3,767	3,619	3,438	3,273
Residential Customers	248	256	264	272	281	289	297	306	314	323
Commercial Customers	107	110	113	116	119	122	126	129	132	135
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	359	371	382	393	404	416	427	439	451	462

**Appendix B
Demand Forecast
High Scenario**

Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.85%	0.84%	1.23%	0.43%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	131,291	131,927	132,563	133,285	133,844	134,480	135,115	136,348	136,396	137,022
Commercial Therms	439,827	444,037	448,213	454,132	456,573	460,749	464,925	470,924	473,291	477,467
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	571,118	575,963	580,776	587,917	590,417	595,229	600,041	607,273	609,687	614,499
Daily Baseload Therms	576	581	586	591	596	601	606	611	616	621
Peak Day Therms	6,291	6,344	6,396	6,453	6,506	6,553	6,606	6,658	6,710	6,768
Therms Per Residential Customer	596	595	593	593	588	586	585	587	583	580
Therms Per Commercial Customer	9,774	9,732	9,586	9,457	9,214	9,226	9,074	8,941	8,897	8,789
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	222	224	226	228	229	231	232	234	236
Commercial Customers	45	46	47	48	50	50	51	53	53	54
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	265	267	270	274	277	279	282	285	287	291
Moses Lake	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.44%	0.37%	0.82%	-0.17%	0.34%	0.31%	0.69%	-0.11%	0.28%
Residential Therms	316,882	318,698	320,272	323,437	323,105	324,605	325,992	328,755	328,656	329,939
Commercial Therms	2,430,134	2,444,165	2,455,869	2,478,603	2,476,502	2,487,514	2,497,485	2,516,846	2,516,621	2,525,832
Industrial Therms	122,431	119,114	116,364	114,124	111,523	108,908	106,504	104,649	101,874	99,644
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,849,448	2,881,977	2,892,505	2,916,164	2,911,130	2,921,027	2,929,982	2,950,250	2,947,152	2,955,415
Daily Baseload Therms	2,768	2,777	2,794	2,825	2,836	2,852	2,855	2,844	2,873	2,900
Peak Day Therms	17,834	17,874	17,901	17,480	17,492	18,051	18,070	18,173	18,191	17,644
Therms Per Residential Customer	442	444	445	449	448	449	450	453	453	454
Therms Per Commercial Customer	6,351	6,366	6,384	6,429	6,409	6,427	6,432	6,475	6,454	6,465
Therms Per Industrial Customer	15,304	14,889	14,545	14,266	13,940	13,613	13,313	13,081	12,734	12,455
Residential Customers	717	718	720	720	722	723	724	725	726	727
Commercial Customers	383	384	385	386	386	387	388	389	390	391
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,108	1,110	1,112	1,114	1,116	1,118	1,120	1,122	1,124	1,126
Moxee (Beauchene)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	676,469	688,734	701,072	716,785	725,476	737,285	748,861	763,321	771,151	781,914
Commercial Therms	560,013	589,724	619,349	651,699	677,740	706,107	733,901	764,025	787,462	813,312
Industrial Therms	675,186	665,570	656,139	647,821	637,346	628,286	619,434	611,610	602,309	593,941
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,911,668	1,944,028	1,976,561	2,016,305	2,040,562	2,071,679	2,102,196	2,138,957	2,160,921	2,189,168
Daily Baseload Therms	330	367	416	527	552	393	417	461	607	622
Peak Day Therms	11,526	11,801	12,072	11,990	12,246	12,977	13,229	13,992	13,831	13,549
Therms Per Residential Customer	621	609	596	586	572	561	561	543	531	522
Therms Per Commercial Customer	8,854	8,969	9,138	9,333	9,360	9,510	9,529	9,684	9,620	9,709
Therms Per Industrial Customer	5,475	52,893	52,144	50,973	49,655	48,471	47,324	45,834	43,871	42,857
Residential Customers	1,089	1,131	1,177	1,223	1,269	1,315	1,360	1,407	1,453	1,499
Commercial Customers	63	66	68	70	72	74	77	79	82	84
Industrial Customers	12	13	13	13	13	13	13	13	14	14
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,165	1,209	1,257	1,306	1,354	1,402	1,451	1,499	1,549	1,596
North Bend	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		4.26%	4.15%	4.70%	3.19%	3.66%	3.54%	4.01%	2.82%	3.23%
Residential Therms	5,509	5,711	5,910	6,156	6,318	6,524	6,734	6,989	7,166	7,382
Commercial Therms	201,099	210,166	219,373	230,139	237,948	247,084	256,233	266,904	274,827	284,045
Industrial Therms	10,888	10,887	10,887	10,966	10,894	10,890	10,892	10,949	10,894	10,898
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	217,496	226,764	236,169	247,261	255,161	264,498	273,859	284,842	292,886	302,344
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	3,543	3,709	3,875	3,927	4,089	4,369	4,536	4,698	4,865	4,899
Therms Per Residential Customer	1,377	1,428	1,477	1,539	1,580	1,631	1,684	1,747	1,791	1,845
Therms Per Commercial Customer	2,350	2,264	2,190	2,146	2,068	2,010	1,957	1,922	1,865	1,821
Therms Per Industrial Customer	5,444	5,443	5,443	5,483	5,447	5,445	5,446	5,475	5,447	5,449
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	86	93	100	107	115	123	131	139	147	156
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	92	99	106	113	121	129	137	145	153	162
Nyssa-Ontario	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.03%	1.03%	1.53%	0.51%	1.00%	0.99%	1.45%	0.50%	0.96%
Residential Therms	2,233,473	2,259,711	2,286,255	2,325,522	2,339,849	2,366,401	2,392,952	2,431,798	2,446,226	2,472,777
Commercial Therms	2,707,358	2,742,694	2,778,385	2,820,704	2,850,301	2,886,004	2,921,706	2,971,604	2,993,261	3,028,964
Industrial Therms	497,847	502,053	506,323	512,104	514,441	518,738	523,033	528,596	531,623	535,920
Ind., Inst., & Cmcl. Interup. Therms	959,466	959,332	959,333	964,183	959,466	959,467	959,469	963,912	959,466	959,467
Total Core Therms	6,398,145	6,463,789	6,530,297	6,630,514	6,664,057	6,730,610	6,797,160	6,895,911	6,930,575	6,997,129
Daily Baseload Therms	4,045	4,074	4,118	4,160	4,184	4,206	4,231	4,248	4,299	4,350
Peak Day Therms	46,109	46,588	47,065	46,773	47,240	48,639	49,115	49,739	50,215	49,725
Therms Per Residential Customer	581	577	574	573	566	563	559	559	553	549
Therms Per Commercial Customer	2,862	2,844	2,825	2,823	2,794	2,777	2,760	2,758	2,730	2,716
Therms Per Industrial Customer	21,110	20,423	19,490	18,959	18,334	17,733	17,019	16,680	16,142	15,672
Residential Customers	3,843	3,914	3,986	4,059	4,131	4,204	4,278	4,352	4,427	4,501
Commercial Customers	946	964	983	1,002	1,020	1,039	1,058	1,077	1,096	1,115
Industrial Customers	24	25	26	27	28	29	31	32	33	34
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,814	4,904	4,997	5,089	5,181	5,274	5,368	5,462	5,557	5,651

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Othello										
Total Therms Pct. Growth		0.71%	0.65%	0.99%	0.35%	0.62%	0.67%	1.03%	0.36%	0.62%
Residential Therms	640,302	661,612	662,838	667,046	665,340	666,553	667,859	672,201	670,544	671,784
Commercial Therms	1,447,081	1,462,914	1,477,457	1,495,960	1,507,583	1,521,700	1,537,241	1,557,585	1,569,590	1,584,281
Industrial Therms	221,903	221,903	221,902	222,862	221,903	221,903	221,902	222,862	221,903	221,903
Ind., Inst., & Cmcl. Interup. Therms	90,372	90,372	90,372	90,702	90,372	90,372	90,373	90,700	90,372	90,372
Total Core Therms	2,419,658	2,436,801	2,452,569	2,476,589	2,485,218	2,500,529	2,517,373	2,543,348	2,552,409	2,568,340
Daily Baseload Therms	1,808	1,823	1,836	1,853	1,868	1,881	1,896	1,916	1,931	1,943
Peak Day Therms	13,120	13,191	13,256	13,285	13,357	13,446	13,515	13,577	13,652	13,691
Therms Per Residential Customer	599	596	592	592	586	583	580	580	574	572
Therms Per Commercial Customer	4,729	4,681	4,624	4,583	4,520	4,466	4,422	4,387	4,374	4,289
Therms Per Industrial Customer	24,656	24,656	24,656	24,762	24,656	24,656	24,656	24,762	24,656	24,656
Residential Customers	1,103	1,111	1,119	1,127	1,135	1,143	1,151	1,159	1,167	1,175
Commercial Customers	306	313	320	326	334	341	348	355	362	369
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,419	1,433	1,448	1,463	1,478	1,494	1,508	1,524	1,539	1,555
Patterson										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	43	53	61	70	78	88	97	105	115	124
Commercial Therms	320,904	320,732	320,731	321,352	320,904	320,904	320,905	321,008	320,902	320,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	320,947	320,784	320,792	321,422	320,993	320,992	321,001	321,114	321,016	321,027
Daily Baseload Therms	159	162	157	155	159	159	159	159	155	154
Peak Day Therms	377	379	380	204	206	379	381	376	378	208
Therms Per Residential Customer	43	53	61	70	78	88	97	105	115	124
Therms Per Commercial Customer	64,181	64,146	64,146	64,270	64,181	64,181	64,181	64,202	64,180	64,181
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	3,028,109	3,060,127	3,092,575	3,141,663	3,158,209	3,190,667	3,223,125	3,271,500	3,288,309	3,320,767
Commercial Therms	2,514,539	2,533,584	2,552,987	2,585,165	2,592,320	2,611,729	2,631,139	2,662,558	2,670,101	2,689,511
Industrial Therms	165,791	165,780	165,789	166,736	165,791	165,787	165,795	166,685	165,825	165,818
Ind., Inst., & Cmcl. Interup. Therms	705,017	704,910	704,910	707,723	705,017	705,017	705,017	707,509	705,017	705,017
Total Core Therms	6,413,456	6,464,401	6,516,261	6,601,287	6,621,338	6,673,201	6,725,075	6,808,251	6,829,253	6,881,113
Daily Baseload Therms	4,958	5,004	5,038	5,042	5,068	5,113	5,164	5,213	5,239	5,246
Peak Day Therms	66,220	66,757	67,293	66,962	67,491	68,980	69,515	70,132	70,667	70,212
Therms Per Residential Customer	589	584	578	576	568	563	559	557	549	545
Therms Per Commercial Customer	3,268	3,241	3,214	3,204	3,164	3,138	3,114	3,104	3,067	3,044
Therms Per Industrial Customer	27,632	27,630	27,631	27,789	27,632	27,631	27,632	27,781	27,637	27,636
Residential Customers	5,138	5,242	5,346	5,451	5,557	5,663	5,770	5,878	5,986	6,096
Commercial Customers	769	782	794	807	819	832	845	858	870	884
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,915	6,031	6,148	6,265	6,384	6,502	6,622	6,743	6,864	6,986
Plymouth										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,383	30,375	30,378	30,562	30,372	30,374	30,377	30,563	30,372	30,374
Daily Baseload Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	234	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,742,333	1,796,460	1,851,011	1,916,975	1,960,850	2,015,391	2,069,914	2,135,544	2,179,163	2,233,648
Commercial Therms	1,848,753	1,875,593	1,902,862	1,941,215	1,958,066	1,985,368	2,012,686	2,050,140	2,067,473	2,094,801
Industrial Therms	445,682	446,283	446,980	450,236	448,488	449,193	449,901	452,863	451,326	452,042
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,036,767	4,118,336	4,200,853	4,308,426	4,367,404	4,449,952	4,532,501	4,638,547	4,697,962	4,780,492
Daily Baseload Therms	2,448	2,470	2,519	2,640	2,691	2,742	2,740	2,788	2,872	2,956
Peak Day Therms	39,034	39,835	40,636	40,361	41,141	43,050	43,851	44,663	45,464	45,053
Therms Per Residential Customer	634	624	614	609	596	588	580	575	565	557
Therms Per Commercial Customer	3,470	3,435	3,406	3,394	3,346	3,318	3,289	3,278	3,235	3,209
Therms Per Industrial Customer	13,928	13,946	13,968	14,070	14,015	14,037	14,059	14,152	14,104	14,126
Residential Customers	2,747	2,879	3,014	3,150	3,288	3,428	3,570	3,714	3,860	4,008
Commercial Customers	533	546	559	572	585	598	612	625	639	653
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,312	3,457	3,604	3,754	3,905	4,059	4,214	4,372	4,531	4,693

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sedro-Woolley Loop										
Total Thems Pct. Growth		0.77%	0.79%	1.23%	0.36%	0.79%	0.76%	1.19%	0.39%	0.78%
Residential Thems	18,416,646	18,562,425	18,711,397	18,945,600	19,014,404	19,166,901	19,320,253	19,554,991	19,630,078	19,786,858
Commercial Thems	10,415,256	10,502,115	10,590,854	10,725,916	10,771,488	10,862,281	10,953,430	11,088,906	11,138,303	11,231,494
Industrial Thems	1,181,824	1,181,678	1,181,677	1,185,850	1,181,824	1,181,823	1,181,822	1,185,559	1,181,824	1,181,823
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	30,013,725	30,246,217	30,483,928	30,857,366	30,967,796	31,211,004	31,455,705	31,829,356	31,950,205	32,200,375
Daily Baseload Thems	28,363	28,496	27,175	26,727	29,234	29,371	29,509	28,629	29,118	27,704
Peak Day Thems	176,157	177,424	178,698	176,894	178,162	183,066	184,377	186,197	187,531	185,132
Thems Per Residential Customer	688	680	671	666	655	648	641	636	627	620
Thems Per Commercial Customer	3,120	3,103	3,088	3,087	3,060	3,046	3,032	3,031	3,007	2,994
Thems Per Industrial Customer	13,168	12,950	12,635	12,528	12,250	11,916	11,734	11,399	11,210	11,025
Residential Customers	26,752	27,310	27,873	28,440	29,010	29,584	30,162	30,745	31,330	31,918
Commercial Customers	3,338	3,385	3,429	3,475	3,520	3,566	3,612	3,658	3,705	3,751
Industrial Customers	90	91	94	95	96	99	101	104	105	107
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	30,180	30,786	31,396	32,009	32,627	33,249	33,875	34,507	35,140	35,777
South Hermiston										
Total Thems Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Thems	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Thems	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Thems	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	30,383	30,375	30,378	30,562	30,372	30,374	30,377	30,563	30,372	30,374
Daily Baseload Thems	6	6	7	6	6	6	6	6	6	6
Peak Day Thems	233	233	233	234	234	233	233	234	233	233
Thems Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Thems Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Thems Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Thems Pct. Growth		1.95%	1.93%	2.43%	1.35%	1.83%	1.79%	2.24%	1.26%	1.70%
Residential Thems	248,867	254,839	260,848	268,266	272,935	278,947	284,958	292,367	297,003	303,015
Commercial Thems	89,896	90,545	91,208	92,331	92,546	93,209	93,872	94,967	95,197	95,860
Industrial Thems	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	338,763	345,384	352,056	360,596	365,481	372,156	378,830	387,334	392,200	398,875
Daily Baseload Thems	141	143	146	149	152	156	157	155	160	165
Peak Day Thems	2,937	2,996	3,056	3,055	3,114	3,220	3,290	3,343	3,403	3,402
Thems Per Residential Customer	704	692	680	673	659	650	640	634	622	614
Thems Per Commercial Customer	2,520	2,412	2,327	2,259	2,181	2,117	2,057	2,004	1,930	1,870
Thems Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	354	368	383	399	414	429	445	461	477	494
Commercial Customers	36	38	39	41	42	44	46	47	49	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	389	406	423	440	456	473	491	509	527	545
Stearns (Sunriver)										
Total Thems Pct. Growth		0.99%	0.98%	1.47%	0.47%	0.95%	0.95%	1.44%	0.43%	0.92%
Residential Thems	4,073,881	4,124,777	4,175,576	4,246,432	4,277,388	4,328,259	4,379,140	4,453,297	4,481,127	4,532,039
Commercial Thems	1,197,832	1,199,988	1,202,103	1,209,239	1,206,299	1,208,414	1,210,529	1,217,824	1,214,766	1,216,880
Industrial Thems	47,172	47,013	46,788	46,745	46,336	46,110	45,885	45,841	45,434	45,208
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	5,318,885	5,371,778	5,424,467	5,504,416	5,530,024	5,582,783	5,635,553	5,716,962	5,741,326	5,794,127
Daily Baseload Thems	5,762	5,807	5,849	5,908	5,950	5,991	6,036	6,105	6,144	6,182
Peak Day Thems	43,768	44,215	44,662	45,251	45,700	46,046	46,493	46,985	47,432	47,984
Thems Per Residential Customer	1,075	1,068	1,062	1,061	1,050	1,044	1,038	1,037	1,026	1,021
Thems Per Commercial Customer	5,455	5,449	5,459	5,457	5,441	5,441	5,423	5,456	5,421	5,415
Thems Per Industrial Customer	15,724	15,671	15,596	15,582	15,445	15,370	15,295	15,280	15,145	15,069
Residential Customers	3,790	3,861	3,932	4,003	4,075	4,147	4,220	4,293	4,366	4,440
Commercial Customers	220	220	220	222	222	222	223	223	224	225
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,013	4,084	4,155	4,228	4,299	4,372	4,446	4,519	4,593	4,668
Sumas SPE Loop										
Total Thems Pct. Growth		0.99%	1.02%	1.45%	0.62%	1.02%	1.02%	1.36%	0.68%	1.02%
Residential Thems	33,660,607	33,936,567	34,225,818	34,671,460	34,824,099	35,123,086	35,425,362	35,856,617	36,039,215	36,351,475
Commercial Thems	17,720,244	17,912,405	18,112,271	18,390,620	18,524,316	18,730,915	18,939,787	19,212,341	19,364,065	19,579,836
Industrial Thems	2,071,410	2,130,432	2,190,763	2,259,241	2,314,075	2,376,439	2,439,489	2,509,009	2,567,507	2,632,640
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	53,452,262	53,979,404	54,528,852	55,321,501	55,662,491	56,230,441	56,804,638	57,577,967	57,970,787	58,563,951
Daily Baseload Thems	30,415	30,727	14,463	14,872	31,719	32,049	32,380	15,232	21,504	15,842
Peak Day Thems	500,238	505,501	510,818	497,849	503,104	526,071	531,623	536,149	541,821	529,710
Thems Per Residential Customer	733	724	716	711	700	693	686	681	672	666
Thems Per Commercial Customer	3,238	3,180	3,125	3,085	3,023	2,975	2,929	2,894	2,842	2,802
Thems Per Industrial Customer	25,732	24,954	24,249	23,711	23,041	22,487	21,947	21,548	21,030	20,619
Residential Customers	45,945	46,879	47,821	48,771	49,726	50,688	51,658	52,636	53,620	54,610
Commercial Customers	5,472	5,633	5,796	5,961	6,128	6,296	6,466	6,639	6,812	6,988
Industrial Customers	81	85	90	95	100	106	111	116	122	128
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	51,498	52,598	53,707	54,827	55,955	57,090	58,235	59,391	60,554	61,726

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sunnyside										
Total Therms Pct. Growth		1.52%	1.50%	1.93%	0.97%	1.37%	1.33%	1.70%	0.82%	1.19%
Residential Therms	1,152,422	1,152,927	1,170,470	1,194,008	1,205,121	1,221,912	1,238,370	1,260,367	1,270,080	1,285,383
Commercial Therms	1,839,469	1,869,032	1,898,640	1,936,951	1,957,214	1,985,571	2,013,367	2,048,987	2,066,954	2,092,297
Industrial Therms	688,571	697,141	705,773	716,878	722,885	731,146	739,244	749,406	754,866	762,995
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,681,032	3,717,100	3,774,904	3,847,837	3,885,219	3,938,629	3,990,982	4,058,760	4,091,900	4,140,575
Daily BaseLoad Therms	2,744	2,766	2,808	2,888	2,921	2,960	2,991	3,016	3,073	3,123
Peak Day Therms	24,848	25,222	25,593	25,372	25,725	26,719	27,066	27,449	27,779	27,419
Therms Per Residential Customer	575	571	566	565	558	554	549	548	540	536
Therms Per Commercial Customer	3,428	3,402	3,369	3,362	3,321	3,296	3,265	3,250	3,211	3,185
Therms Per Industrial Customer	40,504	40,709	38,143	38,743	39,068	39,514	38,100	37,367	37,639	38,014
Residential Customers	1,976	2,021	2,067	2,113	2,160	2,207	2,254	2,302	2,350	2,398
Commercial Customers	537	549	564	576	589	602	617	630	644	657
Industrial Customers	17	17	19	19	19	19	19	20	20	20
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,529	2,587	2,649	2,708	2,768	2,828	2,890	2,953	3,014	3,075
Umatilla										
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.81%	1.21%	1.19%	1.61%	0.74%	1.15%
Residential Therms	453,777	468,054	482,317	499,141	510,900	525,162	539,424	556,590	568,022	582,284
Commercial Therms	510,744	520,481	530,203	542,526	549,680	559,401	569,123	581,683	588,616	598,337
Industrial Therms	1,034,171	1,035,571	1,036,955	1,041,753	1,039,702	1,041,086	1,042,468	1,047,343	1,045,231	1,046,617
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,998,692	2,024,106	2,049,474	2,083,420	2,100,382	2,125,649	2,151,014	2,185,616	2,207,870	2,227,239
Daily BaseLoad Therms	2,446	2,468	2,488	2,498	2,518	2,538	2,561	2,574	2,593	2,612
Peak Day Therms	11,554	11,735	11,916	12,167	12,348	12,476	12,656	12,857	13,037	13,273
Therms Per Residential Customer	485	474	464	457	446	438	430	424	415	408
Therms Per Commercial Customer	3,549	3,519	3,486	3,463	3,413	3,379	3,352	3,343	3,295	3,266
Therms Per Industrial Customer	147,739	147,939	148,136	148,822	148,529	148,727	148,924	149,620	149,319	149,517
Residential Customers	936	987	1,039	1,092	1,146	1,200	1,256	1,312	1,369	1,427
Commercial Customers	144	148	152	157	161	166	170	174	179	183
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,087	1,142	1,198	1,256	1,314	1,373	1,432	1,493	1,555	1,617
Walla Walla										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,350,263	7,458,963	7,557,662	7,692,128	7,753,839	7,852,541	7,947,419	8,073,609	8,129,427	8,217,710
Commercial Therms	6,698,903	6,764,798	6,823,904	6,913,171	6,941,646	7,000,666	7,057,005	7,139,236	7,164,385	7,216,089
Industrial Therms	214,206	221,370	228,023	235,611	241,256	247,927	254,414	261,686	267,012	273,187
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,263,372	14,445,131	14,609,589	14,840,910	14,936,742	15,101,134	15,258,838	15,474,532	15,560,824	15,706,986
Daily BaseLoad Therms	11,719	11,792	11,914	12,136	12,271	12,408	12,458	12,496	12,665	12,802
Peak Day Therms	163,658	165,870	167,848	167,282	169,203	173,688	175,585	177,370	179,177	178,302
Therms Per Residential Customer	623	617	610	607	597	592	586	582	574	568
Therms Per Commercial Customer	5,043	4,980	4,918	4,878	4,797	4,740	4,683	4,646	4,573	4,519
Therms Per Industrial Customer	11,274	11,500	11,120	11,279	10,941	10,494	10,708	10,368	10,410	10,159
Residential Customers	11,804	12,097	12,388	12,682	12,977	13,275	13,574	13,874	14,175	14,477
Commercial Customers	1,328	1,358	1,388	1,417	1,447	1,477	1,507	1,537	1,567	1,597
Industrial Customers	19	19	21	21	22	24	24	25	26	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,475	13,796	14,120	14,446	14,776	15,104	15,436	15,767	16,101
Wenatchee										
Total Therms Pct. Growth		0.77%	0.89%	1.40%	0.38%	0.84%	0.84%	1.28%	0.44%	0.85%
Residential Therms	628,146	633,193	638,429	647,225	649,143	654,383	659,623	667,885	670,126	675,366
Commercial Therms	3,853,577	3,874,134	3,900,427	3,947,027	3,953,993	3,979,341	4,005,013	4,048,550	4,058,706	4,085,781
Industrial Therms	379,490	391,254	403,124	416,900	427,040	438,917	450,794	464,389	474,590	486,467
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,861,227	4,898,580	4,941,980	5,011,153	5,030,177	5,072,641	5,115,431	5,180,824	5,203,422	5,247,615
Daily BaseLoad Therms	4,381	4,369	4,413	4,540	4,584	4,628	4,619	4,587	4,686	4,787
Peak Day Therms	33,961	34,203	34,476	33,150	33,405	35,354	35,621	35,970	36,246	34,768
Therms Per Residential Customer	456	451	446	444	437	433	428	426	420	416
Therms Per Commercial Customer	5,566	5,519	5,484	5,476	5,415	5,379	5,345	5,333	5,280	5,250
Therms Per Industrial Customer	26,323	25,586	26,362	25,557	25,367	26,072	24,832	25,204	24,665	24,237
Residential Customers	1,376	1,403	1,430	1,457	1,485	1,512	1,540	1,568	1,596	1,624
Commercial Customers	692	702	711	721	730	740	749	759	769	778
Industrial Customers	14	15	15	16	17	17	18	18	19	20
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,083	2,120	2,156	2,194	2,232	2,269	2,307	2,345	2,384	2,422
Woodland										
Total Therms Pct. Growth		3.32%	3.29%	3.73%	2.64%	3.00%	2.91%	3.12%	2.47%	2.68%
Residential Therms	473,178	492,801	512,750	535,587	553,129	573,120	593,115	615,129	633,157	653,170
Commercial Therms	830,631	848,181	866,524	890,079	904,206	922,600	941,000	962,255	977,869	996,289
Industrial Therms	724,605	754,719	785,371	819,820	847,470	878,169	908,867	941,753	970,336	1,001,034
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,028,414	2,095,701	2,164,644	2,245,486	2,304,805	2,373,889	2,442,982	2,519,137	2,581,362	2,650,493
Daily BaseLoad Therms	2,383	2,450	2,131	2,114	2,919	2,790	2,884	2,516	3,072	2,522
Peak Day Therms	14,210	14,688	15,166	13,780	14,203	16,600	17,079	17,556	18,035	16,319
Therms Per Residential Customer	618	609	600	594	584	576	568	563	554	547
Therms Per Commercial Customer	3,648	3,580	3,513	3,469	3,397	3,339	3,284	3,245	3,180	3,135
Therms Per Industrial Customer	40,632	41,449	40,085	39,260	39,831	38,629	37,733	38,439	37,284	36,481
Residential Customers	765	810	855	901	948	995	1,044	1,093	1,143	1,194
Commercial Customers	228	237	247	257	266	276	287	297	307	318
Industrial Customers	18	18	20	21	21	23	24	25	26	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,011	1,065	1,121	1,179	1,235	1,294	1,355	1,414	1,477	1,539

**Appendix B
Demand Forecast
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Chief Ranch										
Total Therms Pct. Growth		-0.03%	-0.02%	0.11%	-0.05%	-0.04%	-0.03%	0.13%	-0.05%	-0.04%
Residential Therms	352,893	352,792	352,719	353,102	352,920	352,778	352,656	353,120	352,941	352,794
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	352,893	352,792	352,719	353,102	352,920	352,778	352,656	353,120	352,941	352,794
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	176,446	176,396	176,360	176,551	176,460	176,389	176,328	176,560	176,470	176,397
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Loop										
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	13,614,735	13,826,109	14,039,475	14,329,377	14,462,862	14,667,094	14,867,286	15,133,711	15,253,341	15,439,465
Commercial Therms	13,838,589	14,082,942	14,329,134	14,649,699	14,817,401	15,053,055	15,284,049	15,577,536	15,729,358	15,944,122
Industrial Therms	3,373,158	3,486,044	3,598,722	3,727,511	3,821,720	3,929,585	4,035,316	4,152,817	4,239,153	4,337,456
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,826,482	31,395,095	31,967,331	32,706,587	33,101,983	33,649,735	34,186,652	34,864,064	35,221,852	35,721,043
Daily BaseLoad Therms	20,897	21,036	21,461	22,445	22,802	23,203	23,377	23,394	24,108	24,822
Peak Day Therms	249,788	274,649	279,468	274,766	279,303	293,716	298,230	302,809	307,110	300,704
Therms Per Residential Customer	691	687	684	684	676	672	668	667	660	655
Therms Per Commercial Customer	3,879	3,857	3,836	3,834	3,793	3,770	3,746	3,738	3,696	3,670
Therms Per Industrial Customer	37,865	37,451	36,998	36,674	35,894	35,493	35,089	34,796	34,294	33,869
Residential Customers	19,696	20,113	20,534	20,958	21,385	21,815	22,247	22,682	23,121	23,561
Commercial Customers	3,567	3,651	3,736	3,821	3,907	3,993	4,080	4,168	4,256	4,345
Industrial Customers	89	93	97	102	106	111	115	119	124	128
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	23,352	23,858	24,367	24,881	25,398	25,918	26,441	26,969	27,500	28,034

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Training Center										
Total Therms Pct. Growth		0.62%	0.62%	1.22%	0.00%	0.58%	0.57%	1.13%	-0.05%	0.52%
Residential Therms	19,202	19,578	19,955	20,441	20,698	21,058	21,412	21,868	22,093	22,421
Commercial Therms	368,128	370,150	372,179	376,464	376,208	378,147	380,050	384,143	383,715	385,494
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	387,329	389,728	392,134	396,905	396,906	399,205	401,462	406,010	405,807	407,915
Daily BaseLoad Therms	46	48	49	47	47	47	49	49	49	50
Peak Day Therms	3,695	3,718	3,741	3,732	3,754	3,807	3,829	3,849	3,869	3,857
Therms Per Residential Customer	829	802	801	788	771	765	759	748	719	723
Therms Per Commercial Customer	3,390	3,370	3,373	3,381	3,352	3,347	3,341	3,355	3,329	3,322
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	23	24	25	26	27	28	29	29	31	31
Commercial Customers	109	110	110	111	112	113	114	115	115	116
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	132	134	135	137	139	140	143	144	146	147

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Zillah (Toppenish)										
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.48%	0.72%
Residential Therms	1,102,094	1,109,029	1,116,783	1,131,222	1,133,498	1,140,927	1,148,537	1,159,179	1,162,713	1,169,621
Commercial Therms	2,040,795	2,065,819	2,092,827	2,132,190	2,148,229	2,174,103	2,199,445	2,230,260	2,248,359	2,271,939
Industrial Therms	822,247	821,407	821,375	825,565	822,214	822,214	822,250	823,878	822,214	822,214
Ind., Inst., & Cmcl. Interup. Therms	70,012	70,384	70,836	71,406	71,637	72,028	72,466	72,873	73,276	73,639
Total Core Therms	4,035,147	4,066,639	4,101,821	4,160,483	4,175,578	4,209,272	4,242,718	4,286,190	4,306,561	4,337,413
Daily BaseLoad Therms	2,997	3,043	3,183	3,248	3,359	3,036	3,177	3,240	3,434	3,421
Peak Day Therms	35,752	36,071	36,387	32,426	32,697	37,362	37,657	37,999	38,280	34,018
Therms Per Residential Customer	574	570	567	568	562	559	556	554	549	546
Therms Per Commercial Customer	3,929	3,898	3,869	3,864	3,818	3,788	3,760	3,741	3,701	3,671
Therms Per Industrial Customer	34,260	34,225	34,211	32,375	32,244	32,244	32,085	30,476	30,414	30,414
Residential Customers	1,920	1,944	1,969	1,993	2,018	2,042	2,067	2,092	2,117	2,142
Commercial Customers	519	530	541	552	563	574	585	596	607	619
Industrial Customers	24	24	26	26	26	26	26	27	27	27
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,464	2,499	2,536	2,571	2,607	2,643	2,679	2,716	2,752	2,789

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Zone 10										
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,480,716	3,513,052	3,546,651	3,597,742	3,615,357	3,647,552	3,679,506	3,723,097	3,741,166	3,770,733
Commercial Therms	6,735,245	6,984,249	7,235,239	7,516,079	7,734,515	7,975,442	8,211,655	8,460,055	8,667,407	8,887,346
Industrial Therms	1,808,836	1,816,386	1,824,962	1,841,556	1,843,110	1,851,370	1,859,505	1,872,046	1,875,089	1,882,621
Ind., Inst., & Cmcl. Interup. Therms	70,012	70,384	70,836	71,406	71,637	72,028	72,466	72,873	73,276	73,639
Total Core Therms	12,094,608	12,384,071	12,671,709	13,026,783	13,266,620	13,546,392	13,823,131	14,128,072	14,356,939	14,614,338
Daily BaseLoad Therms	8,577	8,791	7,858	8,189	10,520	9,680	9,918	9,171	10,673	9,675
Peak Day Therms	80,730	82,035	83,325	76,567	77,632	87,277	88,485	89,857	91,006	82,796
Therms Per Residential Customer	649	644	640	638	631	627	622	619	613	608
Therms Per Commercial Customer	4,850	4,917	4,982	5,069	5,110	5,162	5,201	5,251	5,277	5,307
Therms Per Industrial Customer	31,187	31,250	29,916	30,188	30,213	30,349	29,977	29,210	29,258	29,375
Residential Customers	5,361	5,453	5,544	5,636	5,729	5,822	5,916	6,010	6,105	6,201
Commercial Customers	1,389	1,421	1,452	1,483	1,514	1,545	1,579	1,611	1,643	1,675
Industrial Customers	58	58	61	61	61	61	62	64	64	64
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,809	6,932	7,058	7,181	7,305	7,429	7,558	7,687	7,812	7,940

**Appendix B
Demand Forecast
High Scenario**

Zone 11	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.67%	1.66%	2.14%	1.07%	1.52%	1.47%	1.85%	0.93%	1.32%
Residential Therms	14,945,103	15,194,323	15,425,795	15,740,964	15,885,327	16,107,119	16,324,624	16,614,475	16,744,426	16,947,013
Commercial Therms	19,366,652	19,676,984	19,993,231	20,411,913	20,619,496	20,922,501	21,219,946	21,604,392	21,797,503	22,077,233
Industrial Therms	4,561,309	4,669,995	4,778,778	4,907,149	4,994,691	5,099,038	5,201,458	5,319,184	5,399,747	5,495,676
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	38,893,064	39,541,302	40,197,804	41,060,025	41,499,514	42,128,659	42,746,028	43,538,051	43,941,676	44,519,924
Daily BaseLoad Therms	27,022	27,205	27,757	28,986	29,424	29,721	29,912	29,967	30,942	31,782
Peak Day Therms	323,392	328,817	334,219	328,050	333,127	350,364	355,428	360,763	365,607	357,359
Therms Per Residential Customer	673	668	664	664	656	651	647	645	638	633
Therms Per Commercial Customer	4,295	4,268	4,244	4,240	4,193	4,167	4,140	4,130	4,084	4,056
Therms Per Industrial Customer	37,439	36,784	36,440	35,907	35,139	34,803	34,165	33,855	33,212	32,713
Residential Customers	22,241	22,729	23,223	23,722	24,223	24,726	25,233	25,743	26,257	26,771
Commercial Customers	4,509	4,611	4,711	4,814	4,917	5,021	5,126	5,231	5,337	5,443
Industrial Customers	122	127	131	137	142	147	152	157	163	168
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	26,872	27,467	28,065	28,672	29,282	29,893	30,511	31,131	31,756	32,383

Zone 20	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	18,322,751	18,754,137	19,159,148	19,669,398	19,976,012	20,390,566	20,798,885	21,203,392	21,602,072	22,001,731
Commercial Therms	20,644,283	21,015,548	21,364,877	21,819,082	22,071,987	22,428,959	22,781,402	23,232,002	23,483,112	23,834,183
Industrial Therms	1,027,808	1,037,297	1,046,486	1,060,349	1,066,220	1,076,225	1,086,401	1,100,833	1,106,757	1,117,164
Ind., Inst., & Cmcl. Interup. Therms	304,900	304,864	304,864	306,174	304,900	304,901	304,901	305,100	304,900	304,901
Total Core Therms	40,299,742	41,111,846	41,875,374	42,855,003	43,419,119	44,200,651	44,971,590	45,942,326	46,496,842	47,257,979
Daily BaseLoad Therms	35,138	35,705	35,753	36,350	37,683	38,291	38,871	38,907	39,865	39,884
Peak Day Therms	324,597	330,678	336,365	335,607	341,243	354,397	360,166	366,658	372,375	370,104
Therms Per Residential Customer	580	566	552	543	528	517	506	498	486	477
Therms Per Commercial Customer	4,572	4,502	4,433	4,388	4,305	4,245	4,186	4,148	4,077	4,025
Therms Per Industrial Customer	25,068	25,300	24,623	24,949	25,088	25,323	25,562	25,902	25,118	25,354
Residential Customers	31,613	33,140	34,680	36,247	37,836	39,450	41,083	42,739	44,414	46,109
Commercial Customers	4,515	4,668	4,819	4,972	5,127	5,284	5,443	5,601	5,761	5,921
Industrial Customers	41	41	43	43	43	43	43	43	44	44
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	36,171	37,851	39,544	41,264	43,008	44,778	46,570	48,385	50,221	52,076

Zone 24	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,704,104	4,750,389	4,797,330	4,870,279	4,892,117	4,938,738	4,985,155	5,055,806	5,077,893	5,123,912
Commercial Therms	4,410,343	4,462,090	4,514,545	4,590,714	4,620,535	4,673,039	4,725,570	4,800,439	4,830,908	4,883,483
Industrial Therms	653,041	667,824	682,656	699,828	712,774	728,405	744,494	762,606	777,624	794,633
Ind., Inst., & Cmcl. Interup. Therms	959,466	959,332	959,333	964,183	959,466	959,467	959,469	963,912	959,466	959,467
Total Core Therms	10,726,954	10,839,635	10,953,865	11,125,004	11,184,893	11,299,650	11,414,687	11,582,764	11,645,891	11,761,995
Daily BaseLoad Therms	6,240	6,329	6,409	6,503	6,546	6,606	6,672	6,734	6,800	6,929
Peak Day Therms	88,272	89,160	90,047	89,136	90,002	92,869	93,755	94,808	95,695	94,496
Therms Per Residential Customer	638	634	630	630	623	620	616	610	607	607
Therms Per Commercial Customer	2,980	2,941	2,942	2,942	2,910	2,894	2,877	2,874	2,846	2,832
Therms Per Industrial Customer	24,546	24,211	23,558	23,319	22,949	22,584	22,070	21,983	21,640	21,344
Residential Customers	7,374	7,492	7,610	7,728	7,847	7,967	8,086	8,206	8,326	8,447
Commercial Customers	1,480	1,507	1,534	1,561	1,588	1,615	1,643	1,670	1,697	1,725
Industrial Customers	27	28	29	30	31	32	34	35	36	37
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,882	9,027	9,174	9,320	9,467	9,615	9,764	9,912	10,060	10,210

Zone 26	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,724,535	1,776,873	1,829,867	1,891,125	1,936,877	1,989,913	2,042,947	2,102,461	2,149,192	2,202,220
Commercial Therms	6,044,434	6,121,105	6,200,041	6,304,059	6,340,779	6,439,801	6,518,827	6,616,657	6,677,203	6,732,250
Industrial Therms	932,887	959,022	985,757	1,016,928	1,040,050	1,066,845	1,093,644	1,123,068	1,147,294	1,174,110
Ind., Inst., & Cmcl. Interup. Therms	93,191	93,148	93,141	93,494	93,190	93,160	93,195	93,453	93,163	93,145
Total Core Therms	8,795,047	8,950,148	9,108,807	9,305,606	9,430,836	9,589,718	9,748,613	9,935,830	10,066,852	10,225,725
Daily BaseLoad Therms	8,097	8,238	8,277	8,556	8,906	8,933	8,976	8,941	8,421	7,388
Peak Day Therms	77,628	78,954	80,280	77,858	79,103	84,374	85,698	87,147	88,471	85,448
Therms Per Residential Customer	550	541	533	527	517	510	503	497	489	483
Therms Per Commercial Customer	4,810	4,747	4,688	4,648	4,576	4,521	4,468	4,431	4,366	4,317
Therms Per Industrial Customer	28,413	28,879	28,496	28,341	28,670	28,273	27,980	28,432	27,965	27,665
Residential Customers	3,134	3,284	3,435	3,590	3,746	3,905	4,065	4,228	4,393	4,561
Commercial Customers	1,257	1,289	1,323	1,356	1,390	1,424	1,459	1,493	1,529	1,565
Industrial Customers	33	33	35	36	36	38	39	40	41	42
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,425	4,607	4,793	4,983	5,173	5,368	5,564	5,762	5,965	6,169

Zone 30-S	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	27,148,466	27,560,398	27,975,281	28,518,196	28,810,108	29,225,106	29,640,106	30,180,462	30,471,776	30,886,791
Commercial Therms	16,473,021	16,704,277	16,936,585	17,241,977	17,404,745	17,637,050	17,869,422	18,171,143	18,335,124	18,567,583
Industrial Therms	691,206	694,985	698,874	705,730	706,786	710,680	714,575	721,171	722,381	726,279
Ind., Inst., & Cmcl. Interup. Therms	1,357,447	1,359,943	1,360,012	1,366,917	1,360,150	1,360,150	1,360,149	1,366,645	1,360,150	1,360,150
Total Core Therms	46,070,140	46,719,603	47,370,751	48,232,820	48,681,788	49,332,986	49,984,253	50,839,421	51,289,432	51,940,803
Daily BaseLoad Therms	40,608	41,195	40,646	41,292	42,784	43,332	43,917	43,428	44,749	44,445
Peak Day Therms	353,208	358,233	363,255	362,812	367,766	378,633	383,652	388,996	394,016	392,824
Therms Per Residential Customer	717	711	705	702	693	688	682	679	671	666
Therms Per Commercial Customer	4,229	4,193	4,160	4,145	4,096	4,064	4,034	4,018	3,974	3,945
Therms Per Industrial Customer	24,686	24,821	24,960	25,205	25,242	25,381	25,521	25,756	25,799	25,939
Residential Customers	37,851	38,767	39,690	40,623	41,561	42,506	43,458	44,419	45,386	46,360
Commercial Customers	3,896	3,984	4,071	4,160	4,249	4,340	4,430	4,522	4,614	4,707
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	41,777	42,780	43,791	44,813	45,841	46,876	47,918	48,971	50,030	51,097

**Appendix B
Demand Forecast
High Scenario**

Zone 30-W	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.95%	0.97%	1.40%	0.55%	0.97%	0.97%	1.33%	0.59%	0.96%
Residential Therms	41,404,822	61,924,043	42,460,075	63,280,846	63,559,692	64,109,990	64,664,203	65,468,760	65,785,302	66,352,922
Commercial Therms	34,171,881	34,539,096	34,913,093	35,439,469	35,679,559	36,064,264	36,451,601	36,971,626	37,234,486	37,630,599
Industrial Therms	4,211,191	4,276,728	4,343,464	4,426,217	4,480,286	4,549,422	4,619,200	4,702,377	4,760,628	4,832,440
Ind., Inst., & Cmcl. Interrup. Therms	87,633	87,637	87,637	87,940	87,644	87,644	87,644	87,927	87,644	87,644
Total Core Therms	99,875,527	100,827,503	101,804,270	103,234,472	103,807,182	104,811,219	105,822,649	107,230,690	107,868,059	108,903,605
Daily Baseload Therms	73,993	74,694	57,281	57,335	76,797	77,439	78,168	60,380	67,336	60,349
Peak Day Therms	803,346	811,323	819,334	803,512	811,445	843,356	851,660	859,541	867,987	851,638
Therms Per Residential Customer	712	704	696	692	682	675	668	664	655	649
Therms Per Commercial Customer	3,259	3,218	3,179	3,154	3,105	3,070	3,035	3,013	2,970	2,939
Therms Per Industrial Customer	20,719	20,402	20,168	19,988	19,615	19,248	18,980	18,774	18,485	18,242
Residential Customers	86,288	88,009	89,743	91,492	93,249	95,018	96,800	98,598	100,405	102,222
Commercial Customers	10,484	10,734	10,984	11,237	11,492	11,749	12,010	12,273	12,537	12,804
Industrial Customers	203	210	215	221	228	236	243	250	258	265
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	96,977	98,953	100,943	102,951	104,970	107,005	109,054	111,123	113,200	115,291

Zone GTN	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	40,812,540	42,067,202	43,321,682	44,818,974	45,844,022	47,101,114	48,358,463	49,864,720	50,878,005	52,136,161
Commercial Therms	23,110,812	23,472,944	23,824,609	24,305,723	24,535,533	24,888,703	25,242,092	25,719,083	25,951,245	26,305,200
Industrial Therms	3,204,237	3,295,654	3,387,716	3,497,166	3,573,362	3,665,801	3,758,267	3,866,756	3,943,466	4,036,630
Ind., Inst., & Cmcl. Interrup. Therms	307,667	307,586	307,586	309,284	307,667	307,667	309,121	307,667	307,667	307,667
Total Core Therms	67,435,256	69,143,386	70,841,592	72,931,146	74,260,584	75,963,285	77,666,499	79,759,681	81,080,384	82,785,568
Daily Baseload Therms	38,796	39,950	40,964	41,906	42,647	43,669	44,893	46,124	47,231	48,009
Peak Day Therms	645,191	661,600	677,980	683,315	699,457	727,397	743,821	760,443	776,880	780,445
Therms Per Residential Customer	806	794	783	776	761	751	741	735	722	713
Therms Per Commercial Customer	3,285	3,258	3,229	3,176	3,126	3,124	3,114	3,114	3,074	3,050
Therms Per Industrial Customer	28,781	28,299	27,944	27,726	27,188	26,756	26,306	26,077	25,638	25,238
Residential Customers	50,620	52,971	55,357	57,786	60,248	62,746	65,280	67,856	70,460	73,101
Commercial Customers	7,036	7,206	7,378	7,552	7,725	7,901	8,080	8,260	8,442	8,624
Industrial Customers	111	116	121	126	131	137	143	148	154	160
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	57,768	60,294	62,857	65,465	68,105	70,785	73,504	76,264	79,057	81,886

Zone ME-OR	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.11%	1.12%	1.61%	0.62%	1.08%	1.07%	1.50%	0.62%	1.04%
Residential Therms	6,465,561	6,561,071	6,658,008	6,791,338	6,853,926	6,950,885	7,047,922	7,178,538	7,242,512	7,339,406
Commercial Therms	7,107,120	7,188,283	7,270,936	7,389,643	7,438,205	7,520,862	7,603,568	7,718,979	7,769,421	7,852,032
Industrial Therms	1,445,921	1,452,347	1,458,862	1,471,072	1,471,943	1,478,441	1,484,951	1,496,966	1,498,046	1,504,523
Ind., Inst., & Cmcl. Interrup. Therms	1,449,055	1,448,706	1,448,706	1,454,947	1,449,055	1,449,056	1,449,057	1,454,247	1,449,055	1,449,056
Total Core Therms	16,467,657	16,650,407	16,836,513	17,107,000	17,213,130	17,399,244	17,585,498	17,848,730	17,959,035	18,145,018
Daily Baseload Therms	14,974	15,131	15,231	15,379	15,523	15,680	15,846	15,952	16,180	16,237
Peak Day Therms	142,856	144,438	146,017	144,235	145,771	151,020	152,966	154,451	156,028	153,708
Therms Per Residential Customer	567	561	554	551	543	537	531	528	521	516
Therms Per Commercial Customer	3,746	3,718	3,690	3,679	3,633	3,607	3,581	3,571	3,532	3,507
Therms Per Industrial Customer	55,083	53,054	52,420	52,859	52,890	49,940	49,846	50,249	50,285	46,926
Residential Customers	11,398	11,702	12,008	12,318	12,631	12,946	13,264	13,585	13,909	14,236
Commercial Customers	1,897	1,933	1,970	2,009	2,047	2,085	2,123	2,162	2,200	2,239
Industrial Customers	26	27	28	28	28	30	30	30	30	32
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	13,324	13,664	14,009	14,357	14,708	15,063	15,419	15,779	16,141	16,509

Zone ME-WA	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,350,262	7,458,943	7,557,462	7,692,128	7,753,839	7,852,541	7,947,419	8,073,609	8,129,427	8,217,710
Commercial Therms	6,698,903	6,764,798	6,823,904	6,913,171	6,941,646	7,000,666	7,057,005	7,139,236	7,164,385	7,216,889
Industrial Therms	214,206	221,370	228,023	235,611	241,256	247,927	254,414	261,686	267,012	273,187
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,263,372	14,445,131	14,609,589	14,840,910	14,936,742	15,101,134	15,258,838	15,474,532	15,560,824	15,706,986
Daily Baseload Therms	11,719	11,792	11,914	12,136	12,271	12,408	12,458	12,498	12,665	12,832
Peak Day Therms	163,658	165,870	167,848	167,282	169,203	173,688	175,585	177,370	179,177	178,302
Therms Per Residential Customer	623	617	610	607	597	592	586	582	574	568
Therms Per Commercial Customer	5,043	4,980	4,918	4,878	4,797	4,740	4,683	4,646	4,573	4,519
Therms Per Industrial Customer	11,274	11,500	11,720	11,279	10,941	10,708	10,368	10,410	10,410	10,159
Residential Customers	11,804	12,097	12,388	12,682	12,977	13,275	13,574	13,874	14,175	14,477
Commercial Customers	1,328	1,358	1,388	1,417	1,447	1,477	1,507	1,537	1,567	1,597
Industrial Customers	19	19	21	21	22	24	24	25	26	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,475	13,796	14,120	14,446	14,776	15,104	15,436	15,767	16,101

Oregon	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.37%	1.81%
Residential Therms	51,982,204	53,378,662	54,777,020	56,480,591	57,590,066	58,990,737	60,391,540	62,099,065	63,198,410	64,599,479
Commercial Therms	34,628,274	35,123,318	35,610,090	36,286,079	36,594,273	37,082,604	37,571,230	38,238,501	38,551,575	39,040,715
Industrial Therms	5,303,200	5,415,825	5,529,234	5,668,066	5,758,079	5,872,647	5,987,711	6,126,329	6,219,136	6,335,186
Ind., Inst., & Cmcl. Interrup. Therms	2,716,188	2,715,623	2,715,625	2,728,415	2,716,188	2,716,191	2,716,193	2,727,280	2,716,189	2,716,191
Total Core Therms	94,629,867	96,632,428	98,631,970	101,163,150	102,458,466	104,662,179	106,666,674	109,161,175	110,685,309	112,691,571
Daily Baseload Therms	60,030	61,410	62,603	63,788	64,737	65,955	67,412	68,810	70,251	71,715
Peak Day Therms	876,319	895,197	914,044	916,687	935,230	971,286	990,172	1,009,702	1,028,603	1,028,649
Therms Per Residential Customer	749	740	731	726	713	705	697	693	682	674
Therms Per Commercial Customer	3,326	3,299	3,272	3,263	3,221	3,197	3,172	3,162	3,124	3,101
Therms Per Industrial Customer	32,304	31,595	31,056	30,809	30,254	29,531	29,012	28,794	28,328	27,644
Residential Customers	69,393	72,164	74,975	77,832	80,726	83,659	86,630	89,647	92,695	95,784
Commercial Customers	10,413	10,646	10,883	11,121	11,360	11,601	11,846	12,092	12,339	12,588
Industrial Customers	164	171	178	184	190	199	206	213	220	229
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	79,974	82,986	86,040	89,141	92,281	95,462	98,687	101,		

**Appendix B
Demand Forecast
High Scenario**

Washington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.42%	1.39%	1.84%	0.91%	1.33%	1.31%	1.68%	0.87%	1.24%
Residential Therms	134,396,656	136,181,789	137,954,480	140,390,398	141,537,212	143,322,687	145,097,691	147,466,446	148,623,361	150,379,123
Commercial Therms	110,134,418	111,806,058	113,466,970	115,645,749	116,812,727	118,468,681	120,109,859	122,195,112	123,359,220	124,949,283
Industrial Therms	13,447,443	13,675,782	13,906,364	14,193,542	14,372,401	14,601,508	14,829,197	15,100,365	15,278,908	15,501,478
Ind., Inst., & Cmcl. Interup. Therms	2,313,183	2,315,975	2,316,490	2,325,931	2,317,461	2,317,882	2,318,354	2,326,999	2,319,133	2,319,478
Total Core Therms	260,291,700	263,979,604	267,644,304	272,555,619	275,039,801	278,710,758	282,355,102	287,088,922	289,580,622	293,169,361
Daily BaseLoad Therms	205,153	207,620	187,507	190,944	218,485	219,804	222,219	201,289	214,650	206,455
Peak Day Therms	2,126,559	2,155,910	2,184,624	2,151,687	2,179,520	2,272,090	2,300,674	2,330,330	2,358,639	2,318,489
Therms Per Residential Customer	678	669	661	656	645	638	631	626	616	610
Therms Per Commercial Customer	4,023	3,984	3,947	3,928	3,876	3,841	3,807	3,787	3,740	3,707
Therms Per Industrial Customer	26,686	26,495	26,085	25,978	25,648	25,361	25,092	24,881	24,527	24,282
Residential Customers	198,293	203,478	208,703	213,991	219,321	224,702	230,128	235,612	241,135	246,700
Commercial Customers	27,378	28,064	28,748	29,439	30,137	30,840	31,553	32,268	32,987	33,711
Industrial Customers	504	516	533	546	560	576	591	607	623	638
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	226,182	232,065	237,992	243,984	250,025	256,125	262,279	268,494	274,752	281,057
System	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.60%	1.57%	2.03%	1.06%	1.50%	1.47%	1.87%	1.01%	1.40%
Residential Therms	186,378,860	189,560,451	192,731,500	196,870,988	199,127,277	202,313,425	205,489,232	209,565,511	211,821,771	214,978,602
Commercial Therms	144,762,693	146,929,375	149,077,059	151,931,828	153,407,000	155,551,285	157,681,088	160,433,613	161,910,795	164,009,997
Industrial Therms	18,750,643	19,091,607	19,435,598	19,861,607	20,130,480	20,474,155	20,816,909	21,226,694	21,498,044	21,836,664
Ind., Inst., & Cmcl. Interup. Therms	5,029,372	5,031,599	5,032,116	5,054,345	5,033,650	5,034,073	5,034,547	5,054,279	5,035,322	5,035,668
Total Core Therms	354,921,567	360,613,032	366,276,273	373,718,769	377,696,407	383,372,937	389,021,716	396,280,007	400,245,932	405,840,931
Daily BaseLoad Therms	265,183	269,029	250,110	254,732	283,222	285,759	289,631	270,099	284,901	277,630
Peak Day Therms	3,002,878	3,051,107	3,098,667	3,068,375	3,114,750	3,243,376	3,290,846	3,340,033	3,387,242	3,347,138
Therms Per Residential Customer	1,363	1,356	1,351	1,353	1,343	1,339	1,336	1,339	1,331	1,329
Therms Per Commercial Customer	4,436	4,449	4,453	4,490	4,472	4,483	4,491	4,516	4,506	4,510
Therms Per Industrial Customer	54,193	54,721	55,267	56,133	56,380	56,934	57,487	58,327	58,594	59,149
Residential Customers	267,686	275,642	283,678	291,823	300,048	308,361	316,759	325,259	333,830	342,484
Commercial Customers	37,791	38,711	39,631	40,560	41,496	42,441	43,399	44,359	45,326	46,299
Industrial Customers	668	688	711	730	751	775	797	820	842	868
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	306,156	315,051	324,032	333,125	342,306	351,587	360,966	370,449	380,009	389,662

**Appendix B
Demand Forecast
High Scenario**

7th Day School	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,161	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,377	30,562	30,372	30,375	30,377	30,562	30,372	30,375	30,378	30,562
Daily BaseLoad Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	233	233	233	233	234	233	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Therms	56,697	57,164	57,169	57,411	57,665	58,147	58,166	58,420	58,668	59,164
Commercial Therms	31,823	31,950	31,818	31,818	31,823	31,950	31,823	31,823	31,818	31,946
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	88,520	89,114	88,987	89,230	89,488	90,097	89,989	90,242	90,486	91,110
Daily BaseLoad Therms	60	60	61	61	61	61	61	61	62	62
Peak Day Therms	807	822	824	826	828	838	838	838	838	841
Therms Per Residential Customer	798	805	788	792	795	802	802	789	792	799
Therms Per Commercial Customer	3,536	3,550	3,535	3,535	3,536	3,550	3,536	3,536	3,535	3,550
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	71	71	73	73	73	73	73	74	74	74
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	80	80	82	82	82	82	82	83	83	83
Arlington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Therms	3,632,038	3,667,725	3,671,240	3,690,978	3,711,383	3,746,640	3,750,011	3,749,186	3,787,445	3,822,759
Commercial Therms	2,559,437	2,608,872	2,636,207	2,674,337	2,712,745	2,761,315	2,787,394	2,824,437	2,860,719	2,909,365
Industrial Therms	527,880	537,365	542,783	550,393	558,063	567,773	572,949	580,342	587,576	597,299
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,718,955	6,813,961	6,850,230	6,915,708	6,982,191	7,075,727	7,110,354	7,173,965	7,235,740	7,329,422
Daily BaseLoad Therms	6,210	6,318	6,435	6,505	6,579	6,530	6,597	6,718	6,836	6,994
Peak Day Therms	51,895	53,993	54,498	54,999	55,494	54,376	56,501	56,986	57,470	57,983
Therms Per Residential Customer	675	675	669	663	663	663	657	654	651	651
Therms Per Commercial Customer	3,039	3,020	2,976	2,946	2,918	2,899	2,859	2,831	2,803	2,788
Therms Per Industrial Customer	20,267	20,647	22,082	22,391	22,703	23,098	23,309	23,055	23,367	23,787
Residential Customers	5,379	5,433	5,487	5,541	5,595	5,650	5,704	5,759	5,814	5,869
Commercial Customers	842	864	886	908	930	952	975	998	1,021	1,044
Industrial Customers	26	26	25	25	25	25	25	23	23	23
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6,247	6,323	6,397	6,473	6,549	6,627	6,704	6,780	6,858	6,936
Athens	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Therms	353,440	358,242	360,356	363,899	367,743	372,353	374,638	378,247	381,530	386,377
Commercial Therms	148,959	150,780	151,382	152,637	154,026	155,777	156,463	157,743	158,881	160,120
Industrial Therms	91,638	97,822	103,226	109,066	115,002	121,196	126,585	132,411	138,136	144,548
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	594,036	606,844	614,964	625,603	636,770	649,327	657,686	668,401	678,548	691,445
Daily BaseLoad Therms	203	218	233	195	239	216	219	235	250	205
Peak Day Therms	4,313	4,933	5,023	5,112	5,202	4,749	5,398	5,488	5,577	5,684
Therms Per Residential Customer	544	542	535	530	526	523	517	513	509	506
Therms Per Commercial Customer	1,873	1,862	1,836	1,827	1,817	1,809	1,786	1,770	1,751	1,750
Therms Per Industrial Customer	13,453	14,361	12,124	11,570	12,200	12,857	10,962	10,765	11,230	11,751
Residential Customers	649	661	674	687	699	712	724	737	750	763
Commercial Customers	80	81	82	84	85	86	88	89	91	92
Industrial Customers	7	7	9	9	9	9	12	12	12	12
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	736	749	765	780	793	807	824	839	853	867
Baker	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Therms	2,587,406	2,618,077	2,622,006	2,639,306	2,656,912	2,687,191	2,690,636	2,707,137	2,722,802	2,752,813
Commercial Therms	1,829,545	1,854,323	1,860,627	1,876,339	1,892,502	1,917,587	1,924,027	1,939,747	1,955,000	1,980,386
Industrial Therms	271,884	286,429	299,395	313,629	328,582	344,836	359,251	375,177	391,436	409,103
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,688,834	4,758,829	4,782,027	4,829,274	4,877,995	4,949,614	4,973,914	5,022,060	5,069,238	5,142,302
Daily BaseLoad Therms	2,590	2,637	2,680	2,722	2,783	2,811	2,855	2,901	2,948	3,017
Peak Day Therms	43,799	45,307	45,689	46,071	46,453	45,883	47,233	47,614	47,995	48,394
Therms Per Residential Customer	677	678	671	669	666	667	662	659	657	658
Therms Per Commercial Customer	3,108	3,113	3,088	3,077	3,070	3,076	3,052	3,044	3,035	3,040
Therms Per Industrial Customer	90,628	95,476	99,798	104,543	109,527	114,945	119,750	125,059	130,479	136,368
Residential Customers	3,823	3,864	3,905	3,946	3,987	4,027	4,067	4,107	4,146	4,185
Commercial Customers	589	596	602	610	616	623	630	637	644	651
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,414	4,463	4,511	4,559	4,606	4,653	4,700	4,747	4,793	4,840

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Bend Loop										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.50%	1.42%	1.90%	1.85%	2.36%
Residential Therms	37,614,722	38,729,622	39,441,343	40,355,159	41,273,745	42,408,274	43,104,144	44,021,045	44,931,336	46,085,860
Commercial Therms	15,464,620	15,761,045	15,897,018	16,113,784	16,332,468	16,633,925	16,767,671	16,985,039	17,200,714	17,507,303
Industrial Therms	1,047,492	1,079,695	1,103,089	1,130,954	1,158,997	1,191,783	1,215,050	1,243,136	1,271,156	1,304,651
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	54,126,634	55,570,362	56,441,450	57,599,897	58,765,210	60,233,982	61,088,865	62,249,240	63,403,206	64,897,814
Daily Baseload Therms	27,549	28,358	29,167	29,842	30,517	30,900	31,568	32,392	33,222	33,904
Peak Day Therms	520,944	538,256	549,478	560,700	571,923	576,702	594,526	605,762	617,000	628,396
Therms Per Residential Customer	704	699	688	681	674	670	660	653	647	644
Therms Per Commercial Customer	2,851	2,845	2,810	2,791	2,772	2,768	2,736	2,718	2,700	2,696
Therms Per Industrial Customer	15,249	14,854	14,370	13,977	13,612	13,298	12,926	12,626	12,322	12,128
Residential Customers	53,450	55,377	57,323	59,291	61,281	63,298	65,334	67,390	69,469	71,575
Commercial Customers	5,425	5,540	5,656	5,773	5,891	6,010	6,130	6,250	6,371	6,494
Industrial Customers	69	73	77	81	85	90	94	98	103	108
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	58,943	60,990	63,056	65,145	67,257	69,398	71,557	73,739	75,944	78,176
Bremerton (Shelton)										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	28,207,405	28,711,514	28,963,348	29,341,730	29,722,728	30,233,453	30,481,213	30,859,665	31,235,372	31,752,648
Commercial Therms	15,212,854	15,491,416	15,641,381	15,855,853	16,071,757	16,353,837	16,501,681	16,716,190	16,929,189	17,214,747
Industrial Therms	525,638	534,096	538,004	544,195	550,430	558,992	562,839	569,051	575,177	583,843
Ind., Inst., & Cncl. Interup. Therms	1,760,149	1,766,917	1,760,014	1,760,014	1,760,149	1,766,917	1,760,150	1,760,014	1,766,914	1,766,781
Total Core Therms	45,708,045	46,508,942	46,902,747	47,501,792	48,105,864	48,913,199	49,355,883	49,905,035	50,499,752	51,318,019
Daily Baseload Therms	39,728	40,261	40,822	41,341	41,907	42,364	42,782	43,346	43,911	44,453
Peak Day Therms	356,595	365,508	370,198	374,886	379,573	380,206	393,854	398,538	403,450	408,450
Therms Per Residential Customer	640	658	650	646	641	640	633	628	624	623
Therms Per Commercial Customer	3,792	3,779	3,736	3,709	3,682	3,672	3,632	3,607	3,582	3,573
Therms Per Industrial Customer	35,043	35,606	35,867	36,280	36,695	37,266	37,523	37,935	38,345	38,923
Residential Customers	42,749	43,642	44,540	45,443	46,352	47,270	48,192	49,118	50,052	50,993
Commercial Customers	4,012	4,099	4,187	4,275	4,365	4,454	4,543	4,635	4,726	4,818
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	46,778	47,758	48,743	49,735	50,734	51,741	52,752	53,770	54,795	55,828
Brouillette Hop										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,160	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,377	30,562	30,372	30,375	30,377	30,562	30,372	30,375	30,378	30,562
Daily Baseload Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	234	233	233	233	234	233	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	8,312,985	8,499,619	8,593,406	8,723,854	8,853,227	9,020,370	9,092,367	9,205,813	9,311,498	9,462,696
Commercial Therms	6,141,716	6,275,041	6,342,268	6,437,184	6,532,012	6,655,024	6,710,016	6,795,713	6,876,678	6,991,400
Industrial Therms	306,155	309,557	310,445	312,627	314,897	318,365	319,304	321,528	323,682	327,216
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,760,856	15,084,217	15,246,119	15,473,666	15,700,136	15,993,759	16,121,687	16,323,053	16,511,858	16,781,312
Daily Baseload Therms	11,354	11,630	11,781	11,266	11,685	12,308	12,431	12,548	12,657	11,924
Peak Day Therms	90,891	96,145	97,543	98,853	100,128	98,448	103,125	104,257	105,328	106,990
Therms Per Residential Customer	443	436	426	417	410	404	394	387	379	374
Therms Per Commercial Customer	3,716	3,695	3,641	3,605	3,573	3,558	3,508	3,478	3,448	3,437
Therms Per Industrial Customer	23,550	23,812	23,880	24,048	24,223	24,490	24,562	24,733	24,899	25,170
Residential Customers	18,776	19,480	20,189	20,901	21,619	22,344	23,072	23,805	24,542	25,286
Commercial Customers	1,653	1,698	1,742	1,785	1,828	1,871	1,913	1,954	1,995	2,034
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	20,442	21,191	21,944	22,699	23,460	24,227	24,998	25,772	26,550	27,333
Castle Rock										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	41,925	42,594	42,842	43,298	43,751	44,430	44,667	45,125	45,588	46,278
Commercial Therms	146,688	147,206	146,544	146,463	146,365	146,880	146,202	146,119	146,051	146,563
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	188,614	189,799	189,386	189,761	190,116	191,310	190,869	191,244	191,639	192,841
Daily Baseload Therms	256	256	256	256	257	258	257	257	257	258
Peak Day Therms	1,282	1,265	1,268	1,271	1,274	1,297	1,280	1,283	1,286	1,289
Therms Per Residential Customer	373	366	355	347	339	333	325	317	311	306
Therms Per Commercial Customer	3,056	3,067	3,053	3,051	3,049	3,060	3,046	3,044	3,043	3,053
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	112	116	121	125	129	134	138	142	147	151
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	160	164	169	173	177	182	186	190	195	199

**Appendix B
Demand Forecast
High Scenario**

Chemult	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.05%	0.56%	-0.46%	0.04%	0.03%	0.54%	-0.89%	0.02%	0.02%	0.53%
Residential Therms	14,528	14,626	14,581	14,604	14,624	14,713	14,659	14,672	14,685	14,747
Commercial Therms	43,392	43,617	43,393	43,393	43,392	43,617	43,392	43,392	43,393	43,619
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	57,920	58,244	57,974	57,997	58,016	58,331	58,050	58,064	58,078	58,385
Daily Baseload Therms	46	46	46	46	46	46	46	46	46	46
Peak Day Therms	421	419	420	420	420	422	420	420	420	420
Therms Per Residential Customer	528	532	530	531	532	535	533	534	534	537
Therms Per Commercial Customer	2,170	2,181	2,170	2,170	2,170	2,181	2,170	2,170	2,170	2,181
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	28	28	28	28	28	28	28	28	28	28
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	48	48	48	48	48	48	48	48	48	48
Dehawn Dairy	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%
Residential Therms	4,056	4,068	4,057	4,057	4,056	4,068	4,056	4,056	4,057	4,068
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,056	4,068	4,057	4,057	4,056	4,068	4,056	4,056	4,057	4,068
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	12	12	12	12	12	12	12	12	12	12
Therms Per Residential Customer	2,028	2,034	2,028	2,028	2,028	2,034	2,028	2,028	2,028	2,034
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.17%	0.65%	-0.41%	0.15%	0.24%	0.66%	-0.31%	0.17%	0.07%	0.64%
Residential Therms	15,421	15,492	15,407	15,407	15,419	15,493	15,421	15,420	15,407	15,478
Commercial Therms	102,348	103,041	102,638	102,817	103,084	103,790	103,495	103,695	103,796	104,482
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	117,769	118,534	118,045	118,225	118,503	119,284	118,915	119,114	119,203	119,960
Daily Baseload Therms	55	55	55	45	57	55	55	56	55	48
Peak Day Therms	1,047	1,149	1,150	1,152	1,153	1,054	1,157	1,158	1,160	1,162
Therms Per Residential Customer	643	646	642	642	642	642	643	642	642	645
Therms Per Commercial Customer	7,873	7,926	7,895	7,909	7,930	7,984	7,961	7,977	7,984	8,037
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.10%	1.51%	0.65%	1.07%	1.07%	1.47%	0.42%	1.02%	1.00%	1.43%
Residential Therms	6,547,004	6,652,960	6,701,452	6,776,820	6,856,839	6,964,124	7,011,923	7,089,306	7,166,009	7,274,608
Commercial Therms	4,189,117	4,253,943	4,283,204	4,330,414	4,378,095	4,443,809	4,472,833	4,520,166	4,567,055	4,633,657
Industrial Therms	496,591	496,892	494,117	492,869	491,658	491,945	489,222	487,974	486,888	486,960
Ind., Inst., & Cmcl. Interup. Therms	87,644	87,940	87,637	87,637	87,644	87,940	87,644	87,644	87,644	87,637
Total Core Therms	11,320,355	11,491,734	11,566,411	11,689,740	11,814,236	11,987,817	12,061,622	12,185,089	12,307,389	12,483,159
Daily Baseload Therms	10,515	10,650	10,794	10,905	11,013	11,045	11,148	11,292	11,439	11,547
Peak Day Therms	84,231	86,310	87,220	88,130	89,039	88,873	90,937	91,847	92,756	93,748
Therms Per Residential Customer	630	629	622	619	615	614	608	605	601	600
Therms Per Commercial Customer	3,415	3,402	3,361	3,335	3,311	3,299	3,261	3,238	3,215	3,205
Therms Per Industrial Customer	165,530	165,631	164,706	164,290	163,886	163,982	163,074	162,658	162,229	162,320
Residential Customers	10,390	10,577	10,766	10,955	11,145	11,337	11,530	11,723	11,918	12,114
Commercial Customers	1,227	1,250	1,274	1,298	1,322	1,347	1,371	1,396	1,421	1,446
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	11,621	11,832	12,044	12,257	12,472	12,688	12,905	13,123	13,343	13,564
Finley	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.18%	1.73%	0.52%	1.11%	1.13%	1.68%	0.48%	1.05%	1.02%	1.64%
Residential Therms	21,237	21,632	21,784	22,061	22,344	22,749	22,903	23,184	23,460	23,876
Commercial Therms	77,598	78,910	79,280	80,127	81,002	82,333	82,685	83,514	84,329	85,687
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	98,835	100,542	101,064	102,188	103,346	105,082	105,588	106,698	107,789	109,562
Daily Baseload Therms	27	26	27	8	17	28	28	29	30	5
Peak Day Therms	745	784	791	798	805	794	826	833	840	855
Therms Per Residential Customer	472	463	453	444	437	429	418	411	403	399
Therms Per Commercial Customer	5,969	6,070	6,098	6,164	6,231	6,333	6,360	6,424	6,487	6,591
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	45	47	48	50	51	53	55	56	58	60
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	58	60	61	63	64	66	68	69	71	73

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Gilchrist										
Total Therms Pct. Growth	0.56%	1.05%	-0.65%	0.43%	0.39%	0.86%	-0.22%	0.26%	0.22%	0.27%
Residential Therms	132,915	134,296	134,308	134,921	135,474	136,621	136,365	136,757	137,076	138,036
Commercial Therms	160,995	162,688	162,533	163,211	163,825	165,261	164,831	165,244	165,598	166,826
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	293,910	296,984	296,841	298,132	299,300	301,882	301,215	302,001	302,675	304,862
Daily BaseLoad Therms	164	165	165	166	166	167	168	168	168	169
Peak Day Therms	2,312	2,331	2,342	2,352	2,360	2,364	2,376	2,382	2,387	2,393
Therms Per Residential Customer	693	699	699	703	706	712	710	711	712	716
Therms Per Commercial Customer	3,285	3,319	3,215	3,229	3,241	3,269	3,261	3,269	3,276	3,300
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	192	192	192	192	192	192	192	192	193	193
Commercial Customers	49	49	51	51	51	51	51	51	51	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	241	241	243	243	243	243	243	243	243	243
Grandview										
Total Therms Pct. Growth	3.61%	3.61%	2.87%	2.97%	2.85%	2.82%	2.20%	2.28%	2.08%	2.25%
Residential Therms	665,516	674,167	677,074	682,756	688,676	696,580	698,957	703,840	708,098	715,347
Commercial Therms	4,095,565	4,260,187	4,400,326	4,546,769	4,691,187	4,835,899	4,956,720	5,081,808	5,198,737	5,325,428
Industrial Therms	45,046	45,283	45,017	45,014	45,043	45,284	45,045	45,045	45,016	45,255
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,806,127	4,979,636	5,122,418	5,274,540	5,424,906	5,577,763	5,700,722	5,830,692	5,951,851	6,086,029
Daily BaseLoad Therms	4,521	3,603	3,676	5,085	5,302	5,353	4,243	4,247	4,283	5,984
Peak Day Therms	16,797	20,789	21,247	21,688	22,113	18,591	22,991	23,364	23,723	24,158
Therms Per Residential Customer	557	554	548	543	539	537	530	526	521	518
Therms Per Commercial Customer	16,681	16,958	17,124	17,294	17,465	17,618	17,677	17,737	17,781	17,836
Therms Per Industrial Customer	4,505	4,528	4,502	4,501	4,504	4,528	4,504	4,504	4,502	4,525
Residential Customers	1,196	1,216	1,236	1,256	1,277	1,297	1,318	1,338	1,359	1,380
Commercial Customers	246	251	257	263	269	274	280	287	292	299
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,451	1,477	1,503	1,529	1,555	1,582	1,608	1,635	1,662	1,689
Hermiston										
Total Therms Pct. Growth	1.20%	1.68%	0.65%	1.16%	1.17%	1.63%	0.62%	1.10%	1.06%	1.58%
Residential Therms	2,866,579	2,927,038	2,955,418	3,000,175	3,045,906	3,107,321	3,135,689	3,180,475	3,224,232	3,286,575
Commercial Therms	3,601,196	3,661,212	3,685,937	3,728,736	3,772,683	3,833,415	3,858,430	3,901,250	3,942,884	4,004,517
Industrial Therms	192,334	193,301	192,287	192,287	192,334	193,301	192,334	192,334	192,287	193,254
Ind., Inst., & Cncl. Interup. Therms	744,040	747,224	743,795	743,795	744,040	747,224	744,038	744,039	743,796	746,981
Total Core Therms	7,404,149	7,528,775	7,577,437	7,664,995	7,754,964	7,881,262	7,930,491	8,018,099	8,103,200	8,231,327
Daily BaseLoad Therms	7,208	7,283	7,349	7,432	7,552	7,605	7,683	7,754	7,826	7,952
Peak Day Therms	54,071	57,185	57,834	58,481	59,128	57,523	60,999	61,245	61,890	62,720
Therms Per Residential Customer	507	505	498	494	490	488	478	478	474	473
Therms Per Commercial Customer	3,910	3,906	3,866	3,846	3,826	3,824	3,766	3,766	3,746	3,745
Therms Per Industrial Customer	24,042	24,163	24,036	24,036	24,042	24,163	24,042	24,042	24,036	24,157
Residential Customers	5,656	5,795	5,936	6,077	6,220	6,364	6,509	6,655	6,801	6,950
Commercial Customers	921	937	953	970	986	1,002	1,019	1,036	1,053	1,069
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,586	6,741	6,898	7,056	7,215	7,375	7,537	7,700	7,863	8,029
Huntington										
Total Therms Pct. Growth	2.14%	2.74%	1.47%	2.07%	2.09%	2.68%	1.41%	2.01%	1.98%	2.58%
Residential Therms	82,993	84,951	85,910	87,386	88,903	90,966	91,966	93,509	95,051	97,182
Commercial Therms	41,863	43,328	44,259	45,481	46,741	48,312	49,281	50,584	51,900	53,564
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	124,856	128,279	130,169	132,867	135,644	139,278	141,248	144,093	146,951	150,746
Daily BaseLoad Therms	12	12	13	13	14	12	13	14	15	14
Peak Day Therms	1,370	1,425	1,453	1,483	1,512	1,518	1,575	1,605	1,636	1,670
Therms Per Residential Customer	492	493	488	485	484	484	480	477	475	476
Therms Per Commercial Customer	1,430	1,393	1,349	1,311	1,276	1,252	1,214	1,187	1,166	1,149
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	169	172	176	180	184	188	192	196	200	204
Commercial Customers	29	31	33	35	37	39	41	43	45	47
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	198	203	209	215	220	227	232	238	245	251

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDS Church										
Total Therms Pct. Growth	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%
Residential Therms	5,589	5,614	5,589	5,589	5,589	5,614	5,589	5,589	5,589	5,614
Commercial Therms	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	11,008	11,062	11,008	11,008	11,008	11,062	11,008	11,008	11,008	11,062
Daily BaseLoad Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	63	63	63	63	63	63	63	63	63	63
Therms Per Residential Customer	1,397	1,404	1,397	1,397	1,397	1,404	1,397	1,397	1,397	1,404
Therms Per Commercial Customer	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5
Longview South Loop										
Total Therms Pct. Growth	1.26%	1.61%	0.85%	1.22%	1.23%	1.55%	0.83%	1.16%	1.12%	1.49%
Residential Therms	1,539,964	1,578,247	1,604,732	1,637,240	1,670,215	1,708,938	1,735,390	1,767,882	1,799,851	1,838,990
Commercial Therms	5,352,961	5,432,631	5,473,120	5,533,791	5,596,035	5,676,549	5,717,732	5,778,437	5,837,502	5,918,626
Industrial Therms	169,191	165,802	161,370	157,508	153,697	150,280	145,960	142,120	138,247	134,807
Ind., Inst., & Cmcl. Interrup. Therms	93,133	93,541	93,147	93,139	93,167	93,481	93,193	93,150	93,150	93,481
Total Core Therms	7,155,249	7,270,222	7,332,368	7,421,678	7,513,115	7,629,248	7,692,238	7,781,632	7,868,750	7,966,104
Daily BaseLoad Therms	6,116	6,177	6,246	6,301	6,301	6,522	6,581	6,545	6,615	6,615
Peak Day Therms	68,457	71,458	72,298	73,137	73,975	72,805	75,794	76,631	77,467	78,453
Therms Per Residential Customer	501	496	488	483	477	473	466	461	456	453
Therms Per Commercial Customer	4,639	4,614	4,559	4,521	4,484	4,464	4,413	4,379	4,344	4,325
Therms Per Industrial Customer	13,015	12,754	12,413	12,116	11,823	11,560	11,228	10,932	10,634	10,370
Residential Customers	3,075	3,180	3,285	3,392	3,501	3,610	3,720	3,832	3,944	4,058
Commercial Customers	1,154	1,177	1,201	1,224	1,248	1,272	1,296	1,320	1,344	1,369
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,243	4,371	4,500	4,631	4,763	4,896	5,030	5,165	5,302	5,440
Madras										
Total Therms Pct. Growth	0.95%	1.47%	0.37%	0.91%	0.93%	1.42%	0.35%	0.87%	0.83%	1.39%
Residential Therms	866,720	882,865	889,337	900,705	912,310	928,556	934,846	946,046	956,999	973,426
Commercial Therms	1,435,430	1,455,814	1,461,089	1,474,043	1,487,388	1,507,873	1,513,077	1,525,840	1,538,199	1,558,875
Industrial Therms	1,065,156	1,080,959	1,084,737	1,094,626	1,104,802	1,120,698	1,124,393	1,134,137	1,143,584	1,159,641
Ind., Inst., & Cmcl. Interrup. Therms	307,667	309,284	307,586	307,586	307,667	309,284	307,667	307,667	307,586	309,203
Total Core Therms	3,674,973	3,728,922	3,742,749	3,776,960	3,812,167	3,866,411	3,879,983	3,913,691	3,946,368	4,001,145
Daily BaseLoad Therms	1,810	1,846	1,885	1,905	1,925	1,901	1,920	1,960	2,000	2,017
Peak Day Therms	30,781	32,036	32,340	32,643	32,946	32,228	33,535	33,833	34,131	34,419
Therms Per Residential Customer	475	470	460	454	447	443	435	429	423	420
Therms Per Commercial Customer	3,542	3,570	3,559	3,574	3,580	3,613	3,601	3,614	3,621	3,648
Therms Per Industrial Customer	59,175	60,053	60,263	60,813	61,378	62,261	62,466	63,008	63,532	64,425
Residential Customers	1,826	1,879	1,932	1,986	2,040	2,095	2,150	2,206	2,262	2,319
Commercial Customers	405	408	411	412	416	417	420	422	425	427
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,250	2,306	2,361	2,417	2,475	2,531	2,590	2,647	2,706	2,765
McCleary (Aberdeen/Hoquiam)										
Total Therms Pct. Growth	0.74%	1.17%	0.31%	0.75%	0.78%	1.15%	0.32%	0.73%	0.69%	1.13%
Residential Therms	2,094,414	2,144,668	2,166,643	2,203,252	2,240,890	2,291,792	2,314,245	2,350,852	2,386,342	2,437,885
Commercial Therms	3,587,124	3,619,094	3,621,661	3,639,561	3,658,727	3,691,138	3,694,623	3,712,543	3,729,176	3,761,848
Industrial Therms	204,543	202,981	199,883	197,597	195,377	193,785	190,793	188,510	186,164	184,547
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,886,081	6,966,743	6,988,226	7,040,411	7,094,993	7,176,715	7,199,662	7,251,904	7,301,682	7,384,279
Daily BaseLoad Therms	6,359	6,431	6,458	6,533	6,138	6,596	6,625	6,651	6,677	6,700
Peak Day Therms	41,193	43,896	44,224	44,551	44,877	42,998	45,660	45,986	46,312	46,771
Therms Per Residential Customer	674	671	662	657	651	649	641	636	630	628
Therms Per Commercial Customer	4,549	4,550	4,511	4,495	4,478	4,481	4,444	4,428	4,410	4,411
Therms Per Industrial Customer	15,734	15,614	15,376	15,200	15,029	14,907	14,676	14,501	14,320	14,196
Residential Customers	4,590	4,686	4,782	4,879	4,976	5,075	5,173	5,273	5,372	5,473
Commercial Customers	788	795	803	810	817	824	831	838	846	853
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,392	5,494	5,598	5,701	5,806	5,911	6,018	6,124	6,231	6,339
Milton-Freewater										
Total Therms Pct. Growth	1.13%	1.61%	0.58%	1.09%	1.12%	1.57%	0.57%	1.05%	1.00%	1.52%
Residential Therms	128,814	130,828	131,374	132,668	134,006	136,049	136,611	137,905	139,153	141,223
Commercial Therms	385,843	392,979	396,330	401,630	407,085	414,319	417,723	423,026	428,167	435,496
Industrial Therms	13,209	12,577	11,806	11,106	10,409	9,762	9,010	8,309	7,606	6,945
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	527,865	536,385	539,511	545,404	551,499	560,131	563,343	569,241	574,926	583,664
Daily BaseLoad Therms	451	454	455	444	465	480	485	487	487	481
Peak Day Therms	5,839	6,101	6,169	6,236	6,303	6,167	6,439	6,506	6,573	6,642
Therms Per Residential Customer	388	384	376	370	365	362	354	349	344	342
Therms Per Commercial Customer	2,788	2,775	2,735	2,709	2,686	2,674	2,638	2,615	2,592	2,582
Therms Per Industrial Customer	3,108	2,959	2,778	2,613	2,449	2,297	2,120	1,955	1,790	1,634
Residential Customers	332	341	349	358	367	376	386	395	404	413
Commercial Customers	138	142	145	148	152	155	158	162	165	169
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	474	487	498	511	523	535	548	561	573	586

**Appendix B
Demand Forecast
High Scenario**

Mission Tap	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.78%	1.18%	0.58%	0.77%	0.76%	1.15%	0.35%	0.74%	0.74%	1.23%
Residential Therms	137,668	138,912	138,949	139,585	140,221	141,476	141,502	142,137	142,773	144,039
Commercial Therms	481,643	487,696	490,014	494,190	498,361	504,478	506,726	510,902	515,084	521,266
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	619,311	626,608	628,963	633,775	638,581	645,954	648,228	653,040	657,857	665,305
Daily Baseload Therms	626	631	636	641	646	651	656	661	666	671
Peak Day Therms	6,820	6,867	6,920	6,972	7,025	7,082	7,129	7,182	7,234	7,286
Therms Per Residential Customer	578	579	575	574	573	573	568	567	566	567
Therms Per Commercial Customer	8,624	8,649	8,488	8,363	8,299	8,250	8,121	7,975	7,988	7,911
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	238	240	242	243	245	247	249	251	252	254
Commercial Customers	56	56	58	59	60	61	62	64	64	66
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	294	296	299	302	305	308	311	315	317	320

Moses Lake	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.26%	0.69%	-0.15%	0.21%	0.25%	0.64%	-0.23%	0.25%	0.16%	0.65%
Residential Therms	331,178	333,970	333,707	334,766	335,990	338,618	338,027	339,228	340,115	342,800
Commercial Therms	2,534,414	2,553,809	2,552,383	2,559,509	2,567,871	2,585,661	2,581,386	2,589,622	2,595,228	2,613,479
Industrial Therms	97,509	95,847	93,006	91,199	89,219	87,856	85,725	83,666	82,058	80,600
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,963,101	2,983,627	2,979,094	2,985,474	2,993,080	3,012,135	3,005,139	3,012,517	3,017,401	3,036,879
Daily Baseload Therms	2,911	2,899	2,901	2,913	2,911	2,949	2,941	2,961	2,959	2,972
Peak Day Therms	17,676	18,320	18,339	18,346	18,355	17,898	18,454	18,465	18,466	18,542
Therms Per Residential Customer	455	458	457	458	458	461	460	461	461	464
Therms Per Commercial Customer	6,474	6,511	6,493	6,495	6,505	6,532	6,511	6,515	6,516	6,550
Therms Per Industrial Customer	12,189	11,981	11,626	11,400	11,152	10,982	10,716	10,458	10,257	10,075
Residential Customers	729	729	731	732	733	734	735	736	737	738
Commercial Customers	391	392	393	394	395	396	396	398	398	399
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,128	1,130	1,132	1,134	1,136	1,138	1,139	1,142	1,144	1,145

Moxee (Beauchene)	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.26%	1.59%	0.74%	1.11%	1.08%	1.38%	0.55%	0.91%	0.84%	1.23%
Residential Therms	792,380	806,274	812,132	821,646	831,012	843,729	848,215	856,338	863,965	875,614
Commercial Therms	838,444	866,701	886,160	909,004	931,240	956,690	972,609	992,094	1,010,653	1,033,550
Industrial Therms	585,842	578,974	570,359	563,114	556,194	550,125	542,712	536,518	530,458	525,516
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,216,665	2,251,949	2,268,651	2,293,764	2,318,446	2,350,544	2,363,536	2,384,951	2,405,075	2,434,679
Daily Baseload Therms	648	452	490	543	696	687	500	522	561	725
Peak Day Therms	13,765	14,624	14,833	15,033	15,225	14,978	15,706	15,872	16,030	16,311
Therms Per Residential Customer	513	526	496	488	480	475	465	458	451	446
Therms Per Commercial Customer	9,690	9,781	9,788	9,702	9,732	9,691	9,653	9,541	9,529	9,478
Therms Per Industrial Customer	42,273	41,389	40,397	39,884	38,677	38,255	37,398	36,311	35,267	34,329
Residential Customers	1,545	1,592	1,638	1,685	1,731	1,778	1,824	1,870	1,916	1,962
Commercial Customers	87	89	91	94	96	99	101	104	106	109
Industrial Customers	14	14	14	14	14	14	15	15	15	15
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,646	1,695	1,744	1,793	1,841	1,891	1,939	1,989	2,037	2,087

North Bend	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	3.11%	3.63%	2.26%	2.88%	2.85%	3.35%	1.99%	2.55%	2.45%	3.15%
Residential Therms	7,597	7,843	8,026	8,248	8,476	8,754	8,916	9,140	9,342	9,645
Commercial Therms	293,250	304,235	311,458	320,756	330,211	341,567	348,657	357,819	366,852	378,688
Industrial Therms	10,894	10,961	10,887	10,887	10,893	10,963	10,890	10,892	10,887	10,956
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	311,741	323,059	330,371	339,892	349,581	361,284	368,462	377,850	387,101	399,309
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	5,062	5,362	5,529	5,696	5,863	5,869	6,193	6,361	6,529	6,692
Therms Per Residential Customer	1,899	1,966	2,006	2,062	2,119	2,229	2,285	2,341	2,341	2,416
Therms Per Commercial Customer	1,782	1,758	1,708	1,675	1,647	1,627	1,586	1,559	1,536	1,521
Therms Per Industrial Customer	5,447	5,480	5,443	5,443	5,447	5,482	5,445	5,446	5,443	5,478
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	165	173	182	192	200	210	220	230	239	249
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	171	179	188	198	206	216	226	236	245	255

Nyssa-Ontario	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,499,329	2,539,408	2,552,255	2,578,800	2,605,706	2,646,348	2,658,985	2,685,537	2,711,714	2,752,912
Commercial Therms	3,064,650	3,116,079	3,135,797	3,171,489	3,207,612	3,259,789	3,279,186	3,314,888	3,350,142	3,403,038
Industrial Therms	539,626	545,413	548,173	552,439	556,805	562,632	565,456	569,753	573,944	579,774
Ind., Inst., & Cmcl. Interup. Therms	959,469	964,181	959,330	959,332	959,469	964,183	959,466	959,467	959,333	964,048
Total Core Therms	7,063,074	7,165,084	7,195,555	7,262,060	7,329,591	7,432,953	7,463,093	7,529,646	7,595,133	7,699,772
Daily Baseload Therms	4,364	4,362	4,390	4,436	4,489	4,503	4,527	4,550	4,578	4,619
Peak Day Therms	50,189	51,792	52,267	52,742	53,216	52,826	54,321	54,794	55,267	55,902
Therms Per Residential Customer	546	546	540	537	534	534	528	525	522	522
Therms Per Commercial Customer	2,700	2,699	2,671	2,657	2,643	2,642	2,615	2,603	2,588	2,588
Therms Per Industrial Customer	15,092	14,836	14,398	14,075	13,570	13,416	13,057	12,749	12,370	12,206
Residential Customers	4,577	4,652	4,728	4,805	4,881	4,959	5,037	5,115	5,193	5,272
Commercial Customers	1,135	1,155	1,174	1,194	1,214	1,234	1,254	1,274	1,294	1,315
Industrial Customers	36	37	38	39	41	42	43	45	46	47
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,748	5,844	5,941	6,039	6,137	6,235	6,335	6,434	6,534	6,635

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Othello										
Total Therms Pct. Growth	0.67%	1.04%	0.36%	0.64%	0.69%	1.02%	0.36%	0.68%	0.69%	1.09%
Residential Therms	673,107	677,546	675,673	677,178	678,593	683,087	681,404	682,820	684,256	688,909
Commercial Therms	1,600,135	1,621,249	1,633,564	1,649,085	1,665,947	1,687,316	1,699,843	1,716,797	1,734,147	1,757,895
Industrial Therms	221,902	222,862	221,903	221,903	221,902	222,862	221,903	221,903	221,902	222,862
Ind., Inst., & Cmcl. Interup. Therms	90,373	90,702	90,372	90,372	90,373	90,702	90,372	90,372	90,372	90,701
Total Core Therms	2,585,517	2,612,379	2,621,712	2,638,537	2,656,814	2,683,937	2,693,522	2,711,892	2,730,678	2,760,367
Daily BaseLoad Therms	1,958	1,979	1,996	2,010	2,024	2,044	2,061	2,077	2,094	2,116
Peak Day Therms	13,762	13,852	13,929	13,999	14,074	14,109	14,216	14,292	14,370	14,442
Therms Per Residential Customer	569	569	563	561	558	558	553	550	548	548
Therms Per Commercial Customer	4,246	4,221	4,170	4,135	4,097	4,071	4,029	3,995	3,963	3,949
Therms Per Industrial Customer	24,656	24,762	24,656	24,656	24,656	24,762	24,656	24,656	24,656	24,762
Residential Customers	1,183	1,192	1,200	1,208	1,216	1,224	1,233	1,241	1,249	1,258
Commercial Customers	377	384	392	399	407	414	422	430	438	445
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,570	1,586	1,601	1,617	1,633	1,649	1,665	1,681	1,697	1,713
Patterson										
Total Therms Pct. Growth	0.00%	0.14%	-0.19%	0.00%	0.06%	0.14%	-0.14%	0.00%	-0.05%	0.14%
Residential Therms	133	142	150	159	167	176	184	193	201	209
Commercial Therms	320,905	321,354	320,732	320,731	320,902	321,354	320,904	320,904	320,732	321,179
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	321,037	321,495	320,882	320,889	321,049	321,530	321,088	321,097	320,933	321,388
Daily BaseLoad Therms	159	159	162	158	154	159	159	159	162	155
Peak Day Therms	209	377	378	380	382	205	379	380	382	378
Therms Per Residential Customer	133	142	150	159	167	176	184	193	201	209
Therms Per Commercial Customer	64,181	64,271	64,146	64,146	64,180	64,271	64,181	64,181	64,146	64,236
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth	0.75%	1.24%	0.24%	0.74%	0.75%	1.22%	0.23%	0.72%	0.70%	1.20%
Residential Therms	3,353,225	3,403,198	3,417,927	3,450,376	3,483,325	3,533,961	3,548,518	3,580,976	3,612,915	3,664,206
Commercial Therms	2,708,520	2,741,471	2,747,493	2,766,897	2,786,702	2,819,621	2,825,670	2,845,079	2,864,076	2,897,359
Industrial Therms	165,795	166,711	165,778	165,787	165,828	166,711	165,786	165,793	165,782	166,724
Ind., Inst., & Cmcl. Interup. Therms	705,017	707,723	704,910	704,910	705,017	707,723	705,017	705,017	704,910	707,616
Total Core Therms	6,932,957	7,019,103	7,036,109	7,087,970	7,140,871	7,228,017	7,244,991	7,296,866	7,347,684	7,435,904
Daily BaseLoad Therms	5,272	5,339	5,386	5,420	5,445	5,491	5,544	5,592	5,640	5,620
Peak Day Therms	70,740	72,356	72,891	73,425	73,960	73,545	75,114	75,648	76,182	76,803
Therms Per Residential Customer	540	539	532	528	524	523	516	512	508	507
Therms Per Commercial Customer	3,022	3,014	2,978	2,956	2,936	2,930	2,895	2,876	2,857	2,851
Therms Per Industrial Customer	27,632	27,785	27,630	27,631	27,638	27,785	27,631	27,632	27,630	27,787
Residential Customers	6,205	6,315	6,427	6,538	6,650	6,763	6,877	6,991	7,105	7,221
Commercial Customers	896	910	923	936	949	962	976	989	1,003	1,016
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	7,109	7,232	7,356	7,481	7,606	7,733	7,860	7,987	8,115	8,244
Plymouth										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,160	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,377	30,562	30,372	30,375	30,377	30,562	30,372	30,375	30,378	30,562
Daily BaseLoad Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	234	233	233	233	234	233	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth	1.73%	2.27%	1.09%	1.64%	1.64%	2.16%	1.01%	1.54%	1.49%	2.06%
Residential Therms	2,288,097	2,355,973	2,396,680	2,451,064	2,506,075	2,575,131	2,615,129	2,669,503	2,723,159	2,793,365
Commercial Therms	2,122,163	2,161,302	2,176,466	2,203,839	2,231,779	2,271,535	2,286,714	2,314,124	2,340,950	2,381,319
Industrial Therms	452,766	455,969	454,102	454,833	455,672	458,902	457,143	457,882	458,520	461,777
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,863,026	4,973,244	5,027,248	5,109,736	5,193,527	5,305,568	5,358,966	5,441,509	5,522,629	5,636,461
Daily BaseLoad Therms	3,007	3,033	3,047	3,096	3,183	3,284	3,334	3,345	3,354	3,457
Peak Day Therms	45,833	47,877	48,678	49,478	50,279	49,755	51,891	52,692	53,492	54,304
Therms Per Residential Customer	550	547	537	531	525	522	514	508	503	501
Therms Per Commercial Customer	3,184	3,176	3,133	3,110	3,087	3,081	3,042	3,020	2,999	2,993
Therms Per Industrial Customer	14,149	13,976	13,553	13,575	13,600	13,696	13,644	13,666	13,685	13,782
Residential Customers	4,157	4,308	4,461	4,615	4,771	4,930	5,089	5,251	5,413	5,578
Commercial Customers	666	680	695	709	723	737	752	766	781	796
Industrial Customers	32	33	34	34	34	34	34	34	34	34
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,855	5,021	5,189	5,358	5,528	5,701	5,875	6,051	6,228	6,407

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sedro-Woolley Loop										
Total Therms Pct. Growth	0.78%	1.21%	0.34%	0.78%	0.79%	1.21%	0.35%	0.78%	0.77%	1.21%
Residential Therms	19,944,684	20,191,382	20,261,585	20,422,019	20,588,051	20,842,041	20,916,547	21,082,850	21,247,951	21,509,454
Commercial Therms	11,325,828	11,468,020	11,514,617	11,610,781	11,709,071	11,855,614	11,904,881	12,002,935	12,102,302	12,253,323
Industrial Therms	1,181,822	1,185,850	1,181,679	1,181,678	1,181,822	1,185,850	1,181,824	1,181,823	1,181,677	1,185,704
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	32,452,534	32,845,252	32,957,881	33,215,478	33,478,944	33,883,505	34,003,273	34,268,608	34,531,930	34,948,681
Daily Baseload Therms	30,414	30,913	31,056	29,681	30,262	31,860	32,007	32,156	32,306	30,858
Peak Day Therms	186,454	192,100	193,473	194,854	196,244	194,258	199,591	201,013	202,444	204,435
Therms Per Residential Customer	613	610	601	595	590	587	579	574	568	566
Therms Per Commercial Customer	2,981	2,983	2,958	2,947	2,936	2,938	2,916	2,906	2,895	2,898
Therms Per Industrial Customer	10,748	10,683	10,313	10,167	10,026	9,751	9,602	9,364	9,243	9,162
Residential Customers	32,511	33,108	33,708	34,311	34,917	35,529	36,143	36,760	37,381	38,006
Commercial Customers	3,799	3,845	3,892	3,940	3,988	4,035	4,083	4,131	4,180	4,229
Industrial Customers	110	111	115	116	118	122	123	126	128	129
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	36,419	37,064	37,714	38,367	39,023	39,686	40,349	41,017	41,688	42,364
South Hermiston										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,160	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	30,377	30,562	30,372	30,375	30,377	30,562	30,372	30,375	30,378	30,564
Daily Baseload Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	234	233	233	234	233	234	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Therms Pct. Growth	1.67%	2.16%	1.10%	1.59%	1.58%	2.06%	1.02%	1.50%	1.46%	1.97%
Residential Therms	309,626	316,649	321,023	327,033	333,094	340,839	345,141	351,153	357,109	364,974
Commercial Therms	96,522	97,658	97,834	98,496	99,173	100,322	100,499	101,161	101,809	102,970
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	405,549	414,306	418,857	425,529	432,268	441,161	445,640	452,314	458,918	467,944
Daily Baseload Therms	169	166	167	171	176	177	181	182	184	184
Peak Day Therms	3,461	3,576	3,636	3,696	3,756	3,742	3,869	3,930	3,990	4,042
Therms Per Residential Customer	606	601	591	584	577	573	563	557	551	546
Therms Per Commercial Customer	1,818	1,777	1,713	1,669	1,628	1,600	1,558	1,525	1,490	1,461
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	510	527	543	560	578	595	613	630	648	666
Commercial Customers	53	55	57	59	61	63	65	66	68	71
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	563	582	601	619	639	658	677	696	716	737
Stearns (Sunriver)										
Total Therms Pct. Growth	0.91%	1.41%	0.40%	0.89%	0.88%	1.38%	0.37%	0.86%	0.85%	1.35%
Residential Therms	4,582,958	4,658,093	4,685,070	4,736,002	4,786,877	4,863,097	4,888,976	4,939,940	4,990,983	5,068,310
Commercial Therms	1,218,995	1,226,243	1,223,274	1,225,389	1,227,462	1,234,745	1,231,699	1,233,814	1,235,971	1,243,290
Industrial Therms	44,982	44,933	44,532	44,306	44,080	44,027	43,629	43,403	43,178	43,122
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,846,935	5,929,269	5,952,877	6,005,698	6,058,418	6,141,869	6,164,304	6,217,156	6,270,131	6,354,722
Daily Baseload Therms	6,224	6,293	6,338	6,380	6,418	6,481	6,523	6,568	6,612	6,676
Peak Day Therms	48,422	48,820	49,267	49,714	50,161	50,764	51,102	51,549	51,996	52,492
Therms Per Residential Customer	1,015	1,015	1,004	999	994	994	984	979	974	974
Therms Per Commercial Customer	5,424	5,423	5,407	5,407	5,389	5,421	5,387	5,381	5,391	5,387
Therms Per Industrial Customer	14,994	14,978	14,844	14,769	14,693	14,676	14,543	14,468	14,393	14,374
Residential Customers	4,514	4,589	4,664	4,740	4,816	4,892	4,969	5,046	5,124	5,202
Commercial Customers	225	226	227	227	228	229	229	229	229	231
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,742	4,818	4,894	4,969	5,046	5,123	5,201	5,278	5,356	5,436
Sumas SPE Loop										
Total Therms Pct. Growth	1.02%	1.43%	0.59%	1.03%	1.06%	1.43%	0.63%	1.03%	1.00%	1.43%
Residential Therms	36,667,136	37,139,062	37,296,764	37,622,645	37,963,937	38,455,365	38,633,398	38,974,020	39,306,068	39,818,038
Commercial Therms	19,797,958	20,095,562	20,234,591	20,459,774	20,694,158	21,005,103	21,156,865	21,392,237	21,623,124	21,948,119
Industrial Therms	2,698,481	2,773,293	2,831,231	2,899,202	2,968,950	3,047,527	3,108,567	3,179,614	3,250,303	3,332,844
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	59,163,575	60,007,917	60,362,585	60,981,620	61,627,046	62,507,995	62,898,830	63,545,871	64,179,495	65,099,001
Daily Baseload Therms	33,776	34,146	34,495	34,243	34,244	35,613	35,983	36,353	36,739	37,346
Peak Day Therms	534,776	558,084	564,007	569,991	576,042	561,449	587,173	593,424	599,738	604,917
Therms Per Residential Customer	659	656	647	642	636	634	626	621	616	614
Therms Per Commercial Customer	2,763	2,736	2,689	2,654	2,622	2,599	2,559	2,529	2,499	2,481
Therms Per Industrial Customer	20,235	19,934	19,531	19,195	18,924	18,665	18,329	18,083	17,844	17,662
Residential Customers	55,603	56,613	57,625	58,643	59,668	60,702	61,741	62,787	63,840	64,902
Commercial Customers	7,166	7,345	7,526	7,709	7,894	8,080	8,269	8,459	8,651	8,845
Industrial Customers	133	139	145	151	157	163	170	176	182	189
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	62,906	64,098	65,296	66,503	67,719	68,946	70,180	71,422	72,673	73,935

**Appendix B
Demand Forecast
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sunnyside										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.79%	1.27%
Residential Therms	1,300,263	1,321,325	1,328,447	1,341,974	1,355,207	1,374,613	1,379,682	1,391,231	1,402,161	1,420,064
Commercial Therms	2,117,924	2,151,910	2,165,554	2,188,396	2,210,744	2,241,879	2,252,109	2,271,610	2,290,064	2,318,618
Industrial Therms	749,715	779,456	783,556	790,210	796,745	805,648	808,625	814,504	819,836	827,942
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,187,902	4,252,691	4,277,557	4,320,580	4,362,716	4,422,140	4,440,616	4,477,346	4,512,061	4,566,625
Daily Baseload Therms	3,150	3,183	3,195	3,226	3,277	3,322	3,349	3,366	3,370	3,425
Peak Day Therms	27,724	28,742	29,054	29,336	29,607	29,193	30,165	30,404	30,633	30,966
Therms Per Residential Customer	531	529	522	517	513	510	503	498	492	490
Therms Per Commercial Customer	3,154	3,136	3,095	3,067	3,036	3,016	2,973	2,945	2,913	2,890
Therms Per Industrial Customer	37,881	36,012	36,201	36,509	36,812	34,625	34,762	35,006	35,235	34,959
Residential Customers	2,447	2,496	2,545	2,595	2,644	2,695	2,745	2,796	2,847	2,899
Commercial Customers	672	686	700	714	728	743	758	771	786	802
Industrial Customers	20	22	22	22	22	23	23	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,139	3,203	3,267	3,330	3,394	3,461	3,526	3,591	3,657	3,725
Umatilla										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	596,547	613,968	625,164	639,427	653,669	671,382	682,267	696,529	710,814	728,819
Commercial Therms	608,059	620,770	627,571	637,293	646,995	659,892	666,488	676,209	685,952	699,036
Industrial Therms	1,048,001	1,052,860	1,050,783	1,052,164	1,053,532	1,058,414	1,056,296	1,057,679	1,059,078	1,063,983
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,252,607	2,287,599	2,303,518	2,328,884	2,354,196	2,389,688	2,405,050	2,430,417	2,455,843	2,491,838
Daily Baseload Therms	2,633	2,646	2,648	2,689	2,708	2,718	2,738	2,761	2,784	2,793
Peak Day Therms	13,454	13,598	13,778	13,958	14,137	14,401	14,519	14,699	14,878	15,082
Therms Per Residential Customer	401	397	389	384	378	375	368	363	358	356
Therms Per Commercial Customer	3,235	3,223	3,181	3,162	3,132	3,122	3,081	3,061	3,041	3,031
Therms Per Industrial Customer	149,714	150,409	150,112	150,309	150,505	151,202	150,899	151,097	151,297	151,998
Residential Customers	1,486	1,545	1,606	1,667	1,728	1,791	1,855	1,918	1,983	2,049
Commercial Customers	188	193	197	202	207	211	216	221	226	231
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,681	1,745	1,810	1,875	1,942	2,010	2,078	2,146	2,216	2,286
Walla Walla										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	8,302,958	8,422,670	8,440,388	8,533,377	8,605,905	8,713,641	8,738,745	8,801,452	8,859,299	8,957,207
Commercial Therms	7,265,657	7,343,725	7,355,506	7,396,576	7,437,558	7,507,029	7,510,549	7,544,353	7,574,494	7,636,855
Industrial Therms	279,220	286,175	290,658	296,088	301,496	307,898	311,734	316,685	321,407	327,364
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	15,847,835	16,052,569	16,106,552	16,226,041	16,344,960	16,528,568	16,561,028	16,662,490	16,755,201	16,921,426
Daily Baseload Therms	12,952	12,986	13,010	13,099	13,247	13,398	13,492	13,493	13,488	13,614
Peak Day Therms	179,974	184,194	185,740	187,381	188,982	187,110	191,149	192,375	193,529	194,585
Therms Per Residential Customer	562	558	550	544	538	534	526	520	514	511
Therms Per Commercial Customer	4,466	4,433	4,361	4,310	4,260	4,227	4,160	4,112	4,063	4,033
Therms Per Industrial Customer	10,018	9,963	9,594	9,480	9,407	9,432	9,213	8,883	8,939	8,730
Residential Customers	14,780	15,084	15,389	15,692	15,998	16,304	16,610	16,917	17,225	17,534
Commercial Customers	1,627	1,657	1,687	1,716	1,746	1,776	1,805	1,835	1,864	1,894
Industrial Customers	28	29	30	31	32	33	34	36	36	37
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	16,435	16,769	17,106	17,439	17,776	18,112	18,449	18,788	19,125	19,465
Wenatchee										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	680,607	689,412	690,886	696,123	701,590	710,503	712,096	717,236	722,340	731,358
Commercial Therms	4,113,219	4,161,552	4,169,091	4,198,481	4,229,746	4,280,810	4,290,932	4,321,972	4,351,848	4,404,489
Industrial Therms	498,344	512,409	521,994	533,865	545,894	560,160	569,696	581,573	593,278	607,740
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,292,170	5,363,373	5,381,972	5,428,469	5,477,230	5,551,474	5,572,723	5,620,881	5,667,466	5,743,587
Daily Baseload Therms	4,833	4,800	4,791	4,838	4,944	5,026	5,076	5,067	5,058	5,143
Peak Day Therms	35,033	37,162	37,451	37,743	38,038	36,572	38,716	39,019	39,324	39,711
Therms Per Residential Customer	412	410	404	401	397	395	390	387	382	382
Therms Per Commercial Customer	5,219	5,215	5,162	5,136	5,112	5,111	5,064	5,041	5,016	5,018
Therms Per Industrial Customer	24,829	24,020	23,986	23,745	23,225	23,832	23,215	22,995	23,457	22,668
Residential Customers	1,652	1,681	1,709	1,738	1,767	1,796	1,826	1,855	1,885	1,915
Commercial Customers	788	798	808	817	827	838	847	857	868	878
Industrial Customers	20	21	22	22	24	24	25	25	25	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,460	2,500	2,539	2,578	2,618	2,658	2,698	2,738	2,778	2,819
Woodland										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	673,185	696,458	712,795	732,799	753,340	777,005	793,491	813,545	833,019	857,053
Commercial Therms	1,014,711	1,038,221	1,050,642	1,069,047	1,088,521	1,112,420	1,125,519	1,143,986	1,161,328	1,185,586
Industrial Therms	1,031,732	1,066,534	1,092,407	1,123,059	1,154,598	1,189,868	1,216,114	1,246,811	1,276,529	1,312,222
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,719,628	2,801,213	2,855,845	2,924,905	2,996,458	3,079,293	3,135,123	3,204,343	3,270,877	3,354,860
Daily Baseload Therms	3,460	3,301	3,363	3,443	3,512	3,572	3,918	3,803	3,865	3,840
Peak Day Therms	16,743	19,470	19,949	20,429	20,908	18,859	21,865	22,345	22,825	23,302
Therms Per Residential Customer	541	537	528	522	516	513	505	500	495	492
Therms Per Commercial Customer	3,092	3,060	3,002	2,963	2,924	2,902	2,853	2,816	2,782	2,762
Therms Per Industrial Customer	37,017	36,199	35,311	35,783	34,945	34,268	34,559	33,926	33,163	33,668
Residential Customers	1,245	1,298	1,351	1,405	1,459	1,514	1,570	1,627	1,684	1,742
Commercial Customers	328	339	350	361	372	383	394	406	418	429
Industrial Customers	28	29	31	31	33	35	35	37	38	39
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,601	1,667	1,732	1,797	1,864	1,932	2,000	2,070	2,140	2,210

**Appendix B
Demand Forecast
High Scenario**

Yakima Chief Ranch	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	-0.04%	0.12%	-0.06%	-0.02%	-0.04%	0.11%	-0.06%	-0.03%	-0.03%	0.12%
Residential Therms	352,667	353,105	352,910	352,837	352,703	353,104	352,897	352,774	352,674	353,097
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	352,667	353,105	352,910	352,837	352,703	353,104	352,897	352,774	352,674	353,097
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	176,334	176,553	176,455	176,419	176,352	176,552	176,448	176,387	176,337	176,549
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2

Yakima Loop	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.36%	1.81%	0.71%	1.19%	1.16%	1.58%	0.52%	0.97%	0.90%	1.39%
Residential Therms	15,620,436	15,878,981	15,961,826	16,126,315	16,289,035	16,527,553	16,587,060	16,727,497	16,858,546	17,078,887
Commercial Therms	16,152,940	16,436,936	16,546,773	16,736,570	16,924,287	17,184,966	17,268,039	17,430,094	17,581,341	17,820,863
Industrial Therms	4,433,036	4,545,033	4,613,711	4,700,574	4,786,107	4,887,199	4,943,460	5,017,635	5,087,213	5,178,412
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	36,206,412	36,860,950	37,122,309	37,563,459	37,999,429	38,599,719	38,798,560	39,175,227	39,527,100	40,078,162
Daily BaseLoad Therms	25,089	25,159	25,154	25,486	26,165	26,729	27,013	27,010	26,916	27,505
Peak Day Therms	304,629	319,515	323,344	327,043	330,599	332,799	337,488	340,635	343,668	346,611
Therms Per Residential Customer	651	649	641	636	631	629	621	615	610	607
Therms Per Commercial Customer	3,642	3,633	3,585	3,556	3,527	3,513	3,464	3,432	3,399	3,383
Therms Per Industrial Customer	33,509	33,176	32,487	31,983	31,431	31,121	30,570	30,150	29,718	29,398
Residential Customers	24,004	24,451	24,900	25,352	25,806	26,264	26,724	27,186	27,651	28,119
Commercial Customers	4,435	4,525	4,616	4,707	4,799	4,891	4,985	5,078	5,172	5,267
Industrial Customers	132	137	142	147	152	157	162	166	171	176
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	28,571	29,113	29,658	30,206	30,757	31,312	31,870	32,430	32,994	33,562

Yakima Training Center	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.50%	1.08%	-0.14%	0.45%	0.44%	1.01%	-0.21%	0.38%	0.35%	0.95%
Residential Therms	22,740	23,175	23,346	23,637	23,920	24,319	24,445	24,693	24,929	25,296
Commercial Therms	387,227	391,221	390,476	392,040	393,573	397,407	396,416	397,750	399,013	402,656
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	409,967	414,396	413,822	415,677	417,493	421,727	420,861	422,443	423,942	427,952
Daily BaseLoad Therms	50	49	51	52	52	49	50	51	53	52
Peak Day Therms	3,877	3,926	3,945	3,963	3,980	3,962	4,011	4,026	4,041	4,054
Therms Per Residential Customer	702	707	686	680	669	654	652	629	633	616
Therms Per Commercial Customer	3,308	3,324	3,285	3,288	3,265	3,283	3,247	3,237	3,227	3,233
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	32	33	34	35	36	37	37	39	39	41
Commercial Customers	117	118	119	119	121	121	122	123	124	125
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	149	150	153	154	156	158	160	162	163	166

Zillah (Toppenish)	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.69%	1.14%	0.07%	0.61%	0.69%	1.04%	0.06%	0.52%	0.39%	0.94%
Residential Therms	1,176,417	1,188,942	1,188,239	1,194,171	1,201,097	1,212,947	1,212,149	1,217,575	1,221,452	1,232,152
Commercial Therms	2,294,647	2,328,387	2,326,126	2,356,948	2,379,558	2,410,503	2,417,302	2,435,095	2,449,628	2,478,223
Industrial Therms	822,214	825,596	821,404	821,373	822,214	825,565	822,214	822,248	821,411	824,721
Ind., Inst., & Cmcl. Interup. Therms	73,908	74,362	74,566	74,924	75,311	75,615	75,788	76,110	76,323	76,733
Total Core Therms	4,367,405	4,417,307	4,420,335	4,447,417	4,478,180	4,524,631	4,527,472	4,551,028	4,568,815	4,611,830
Daily BaseLoad Therms	3,519	3,251	3,295	1,246	2,500	3,626	3,251	3,393	3,433	1,315
Peak Day Therms	34,251	39,132	39,380	39,619	39,849	35,416	40,338	40,540	40,734	40,981
Therms Per Residential Customer	543	542	536	532	529	529	522	519	515	514
Therms Per Commercial Customer	3,640	3,627	3,576	3,545	3,516	3,502	3,451	3,420	3,383	3,366
Therms Per Industrial Customer	30,414	29,003	28,722	28,721	28,751	28,735	27,232	27,234	27,206	27,315
Residential Customers	2,167	2,192	2,218	2,243	2,269	2,295	2,300	2,346	2,372	2,398
Commercial Customers	630	642	653	665	677	688	700	712	724	736
Industrial Customers	27	28	29	29	29	29	30	30	30	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,826	2,864	2,901	2,938	2,975	3,013	3,052	3,089	3,127	3,165

Zone 10	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.71%	2.01%	1.12%	1.48%	1.47%	1.70%	0.90%	1.21%	1.09%	1.46%
Residential Therms	3,799,583	3,844,721	3,853,276	3,879,362	3,906,503	3,948,505	3,954,550	3,977,269	3,997,057	4,035,794
Commercial Therms	9,101,258	9,340,237	9,503,350	9,697,820	9,892,009	10,105,531	10,245,179	10,411,782	10,565,436	10,756,027
Industrial Therms	1,899,940	1,904,162	1,902,797	1,909,418	1,916,989	1,930,325	1,929,049	1,934,764	1,939,083	1,951,600
Ind., Inst., & Cmcl. Interup. Therms	73,908	74,362	74,566	74,924	75,311	75,615	75,788	76,110	76,323	76,733
Total Core Therms	14,864,690	15,163,482	15,333,989	15,561,524	15,790,812	16,059,976	16,204,545	16,399,925	16,577,899	16,820,154
Daily BaseLoad Therms	12,080	10,931	11,073	10,494	12,037	13,222	11,789	11,921	12,015	11,479
Peak Day Therms	83,713	94,470	95,487	96,469	97,413	88,265	99,400	100,231	101,031	102,031
Therms Per Residential Customer	603	601	594	589	584	582	575	570	564	562
Therms Per Commercial Customer	5,329	5,360	5,354	5,364	5,371	5,387	5,364	5,359	5,339	5,338
Therms Per Industrial Customer	29,368	28,374	28,298	28,396	28,509	27,976	27,378	27,459	27,520	27,535
Residential Customers	6,296	6,393	6,490	6,587	6,685	6,784	6,883	6,983	7,082	7,184
Commercial Customers	1,708	1,743	1,775	1,808	1,842	1,876	1,910	1,943	1,979	2,015
Industrial Customers	64	67	67	67	67	69	70	70	70	71
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,069	8,203	8,333	8,463	8,595	8,730	8,864	8,997	9,133	9,271

**Appendix B
Demand Forecast
High Scenario**

Zone 11	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.88%	0.94%	0.87%	1.36%
Residential Therms	17,144,143	17,426,070	17,516,440	17,696,087	17,874,053	18,134,838	18,200,542	18,354,721	18,496,743	18,740,360
Commercial Therms	22,350,613	22,728,082	22,872,129	23,124,751	23,377,424	23,730,467	23,844,206	24,088,175	24,277,453	24,608,518
Industrial Therms	5,588,698	5,702,249	5,765,316	5,850,923	5,935,234	6,038,804	6,091,141	6,164,664	6,234,001	6,328,908
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	45,083,454	45,856,421	46,153,885	46,671,760	47,186,711	47,904,109	48,135,889	48,587,560	49,010,197	49,677,787
Daily Baseload Therms	32,133	31,963	32,002	32,463	33,417	34,054	34,208	34,218	34,165	35,027
Peak Day Therms	361,789	379,815	384,169	388,381	392,443	382,846	400,539	404,174	407,683	411,525
Therms Per Residential Customer	628	627	618	613	608	606	597	592	586	584
Therms Per Commercial Customer	4,026	4,016	3,964	3,934	3,903	3,889	3,838	3,805	3,770	3,755
Therms Per Industrial Customer	32,450	31,978	31,350	30,864	30,257	30,055	29,660	29,011	28,660	28,220
Residential Customers	27,291	27,813	28,339	28,866	29,398	29,932	30,468	31,007	31,548	32,094
Commercial Customers	5,552	5,660	5,769	5,879	5,990	6,101	6,213	6,326	6,439	6,554
Industrial Customers	172	178	184	190	196	201	207	212	218	224
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	33,015	33,651	34,292	34,935	35,583	36,234	36,888	37,546	38,204	38,872

Zone 20	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.59%	2.02%	0.99%	1.44%	1.43%	1.88%	0.85%	1.32%	1.27%	1.76%
Residential Therms	22,396,373	22,899,507	23,157,435	23,529,125	23,902,043	24,391,315	24,624,257	24,980,419	25,327,416	25,808,788
Commercial Therms	24,181,449	24,632,312	24,855,657	25,186,317	25,518,308	25,969,748	26,173,694	26,497,891	26,813,796	27,261,365
Industrial Therms	1,127,593	1,142,555	1,147,506	1,157,861	1,168,174	1,183,443	1,188,827	1,198,814	1,209,128	1,224,533
Ind., Inst., & Cmcl. Interup. Therms	304,901	306,174	304,864	304,864	304,901	306,174	304,901	304,901	304,901	306,137
Total Core Therms	48,010,315	48,980,547	49,465,463	50,178,167	50,893,436	51,880,639	52,291,678	52,982,025	53,655,205	54,600,233
Daily Baseload Therms	41,342	42,001	42,474	42,359	43,346	44,331	44,863	45,374	45,828	45,608
Peak Day Therms	375,607	390,071	395,561	400,934	406,275	401,811	417,738	422,959	428,126	434,253
Therms Per Residential Customer	468	462	451	443	436	431	421	414	407	403
Therms Per Commercial Customer	3,976	3,945	3,880	3,835	3,792	3,768	3,709	3,670	3,631	3,611
Therms Per Industrial Customer	25,591	25,930	26,043	25,344	25,570	25,904	26,022	26,241	26,467	25,853
Residential Customers	47,823	49,556	51,305	53,069	54,851	56,654	58,471	60,304	62,153	64,023
Commercial Customers	6,082	6,244	6,406	6,567	6,729	6,893	7,057	7,221	7,385	7,550
Industrial Customers	44	44	44	46	46	46	46	46	46	47
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	53,951	55,846	57,757	59,684	61,628	63,595	65,575	67,572	69,586	71,622

Zone 24	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	5,169,728	5,242,436	5,260,171	5,305,492	5,351,520	5,424,505	5,441,588	5,486,183	5,529,567	5,602,907
Commercial Therms	4,936,058	5,013,730	5,040,682	5,093,309	5,146,855	5,225,688	5,252,494	5,305,219	5,357,042	5,436,988
Industrial Therms	811,510	831,842	847,568	866,068	885,387	907,468	924,707	944,930	965,380	988,877
Ind., Inst., & Cmcl. Interup. Therms	959,469	964,183	959,330	959,332	959,469	964,183	959,466	959,467	959,333	964,048
Total Core Therms	11,876,765	12,052,191	12,107,751	12,224,201	12,343,231	12,521,845	12,578,255	12,695,799	12,811,323	12,992,820
Daily Baseload Therms	6,966	7,011	7,083	7,172	7,285	7,326	7,395	7,465	7,541	7,651
Peak Day Therms	95,399	98,523	99,410	100,296	101,181	100,028	103,129	104,014	104,899	105,965
Therms Per Residential Customer	603	603	597	594	591	591	585	583	580	580
Therms Per Commercial Customer	2,816	2,814	2,786	2,771	2,757	2,756	2,729	2,716	2,701	2,701
Therms Per Industrial Customer	20,939	20,920	20,636	20,499	20,107	20,194	19,949	19,814	19,543	19,583
Residential Customers	8,548	8,688	8,809	8,931	9,052	9,173	9,295	9,417	9,539	9,661
Commercial Customers	1,753	1,781	1,809	1,838	1,867	1,896	1,925	1,954	1,983	2,013
Industrial Customers	39	40	41	42	44	45	46	48	49	50
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	10,360	10,511	10,661	10,812	10,963	11,115	11,267	11,419	11,572	11,725

Zone 26	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,255,248	2,317,483	2,360,562	2,413,539	2,467,519	2,530,595	2,572,779	2,626,793	2,678,708	2,742,580
Commercial Therms	6,835,299	6,939,446	6,991,073	7,070,068	7,151,859	7,257,240	7,310,395	7,389,485	7,465,653	7,572,193
Industrial Therms	1,200,929	1,232,342	1,253,782	1,280,573	1,308,300	1,340,154	1,362,078	1,388,937	1,414,782	1,447,035
Ind., Inst., & Cmcl. Interup. Therms	93,133	93,541	93,147	93,139	93,167	93,481	93,157	93,193	93,150	93,081
Total Core Therms	10,384,609	10,582,812	10,698,564	10,857,318	11,020,846	11,221,470	11,339,409	11,498,408	11,652,292	11,855,289
Daily Baseload Therms	9,991	9,892	10,027	7,658	9,284	10,857	10,700	10,764	10,899	8,663
Peak Day Therms	86,691	92,571	93,894	95,217	96,539	93,166	99,318	100,640	101,960	103,422
Therms Per Residential Customer	477	473	465	460	455	451	445	440	435	432
Therms Per Commercial Customer	4,272	4,241	4,181	4,136	4,094	4,070	4,016	3,975	3,937	3,913
Therms Per Industrial Customer	28,012	27,716	27,294	27,607	27,234	26,953	27,139	26,839	26,448	26,809
Residential Customers	4,730	4,901	5,075	5,250	5,427	5,607	5,788	5,971	6,156	6,343
Commercial Customers	1,600	1,636	1,672	1,709	1,747	1,783	1,820	1,859	1,896	1,935
Industrial Customers	43	44	46	46	48	50	50	52	53	54
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,374	6,583	6,794	7,007	7,223	7,441	7,660	7,883	8,107	8,333

Zone 30-S	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	31,301,819	31,856,182	32,130,031	32,544,983	32,963,618	33,525,245	33,795,459	34,210,516	34,621,715	35,190,533
Commercial Therms	18,799,978	19,110,510	19,263,041	19,495,414	19,730,483	20,044,975	20,196,304	20,428,733	20,658,365	20,976,595
Industrial Therms	730,181	737,077	737,887	741,792	745,807	752,777	753,632	757,540	761,340	766,390
Ind., Inst., & Cmcl. Interup. Therms	1,760,149	1,766,917	1,760,014	1,760,014	1,760,149	1,766,917	1,760,150	1,760,150	1,760,014	1,766,781
Total Core Therms	52,592,126	53,470,685	53,890,973	54,542,203	55,200,058	56,089,914	56,505,544	57,156,939	57,801,434	58,702,299
Daily Baseload Therms	46,087	46,692	47,280	46,675	48,045	48,860	49,406	49,997	50,589	50,120
Peak Day Therms	397,788	409,404	414,422	419,437	424,449	423,204	434,828	439,840	444,850	450,225
Therms Per Residential Customer	661	659	651	647	642	640	633	629	625	623
Therms Per Commercial Customer	3,916	3,905	3,861	3,834	3,808	3,798	3,758	3,733	3,708	3,699
Therms Per Industrial Customer	26,078	26,324	26,353	26,493	26,636	26,885	26,915	27,055	27,191	27,442
Residential Customers	47,339	48,328	49,322	50,321	51,328	52,344	53,365	54,391	55,424	56,466
Commercial Customers	4,801	4,894	4,989	5,085	5,181	5,278	5,375	5,473	5,572	5,671
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	52,170	53,252	54,341	55,436	56,540	57,652	58,770	59,894	61,026	62,167

**Appendix B
Demand Forecast
High Scenario**

Zone 30-W	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	66,925,042	67,786,308	68,064,297	68,651,377	69,256,807	70,146,008	70,449,850	71,053,999	71,646,768	72,545,650
Commercial Therms	38,029,547	38,584,466	38,825,964	39,232,755	39,651,713	40,224,356	40,479,874	40,898,796	41,311,240	41,903,349
Industrial Therms	4,904,901	4,993,929	5,050,337	5,124,668	5,201,020	5,293,622	5,353,089	5,430,279	5,506,771	5,603,336
Ind., Inst., & Cmcl. Interup. Therms	87,444	87,940	87,637	87,637	87,444	87,940	87,444	87,444	87,637	87,934
Total Core Therms	109,947,134	111,452,642	112,030,235	113,096,437	114,197,183	115,751,926	116,370,457	117,470,719	118,552,434	120,140,269
Daily Baseload Therms	81,095	82,208	82,962	83,507	70,983	85,232	85,920	86,704	87,506	86,825
Peak Day Therms	859,971	893,219	901,936	910,719	919,572	901,606	936,969	946,044	955,189	963,872
Therms Per Residential Customer	643	640	632	626	621	619	611	606	601	599
Therms Per Commercial Customer	2,909	2,891	2,851	2,823	2,797	2,782	2,746	2,722	2,698	2,685
Therms Per Industrial Customer	17,944	17,826	17,528	17,322	17,146	16,887	16,663	16,495	16,333	16,228
Residential Customers	104,051	105,896	107,751	109,616	111,492	113,384	115,285	117,197	119,120	121,059
Commercial Customers	13,074	13,345	13,620	13,896	14,175	14,456	14,739	15,025	15,313	15,604
Industrial Customers	273	280	288	296	303	313	321	329	337	345
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	117,400	119,523	121,660	123,809	125,971	128,154	130,346	132,552	134,772	137,010

Zone GTN	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	53,394,387	54,941,552	55,907,916	57,165,868	58,432,058	60,005,986	60,953,932	62,212,796	63,463,130	65,064,238
Commercial Therms	26,659,273	27,152,989	27,364,476	27,718,458	28,077,419	28,578,778	28,787,741	29,142,007	29,491,366	30,000,811
Industrial Therms	4,128,604	4,240,694	4,312,872	4,405,356	4,499,002	4,612,599	4,684,248	4,776,719	4,867,964	4,963,143
Ind., Inst., & Cmcl. Interup. Therms	307,667	309,284	307,586	307,586	307,667	309,284	307,667	307,667	307,586	309,203
Total Core Therms	84,489,931	86,644,519	87,892,850	89,597,267	91,314,144	93,586,647	94,733,588	96,439,188	98,130,046	100,357,395
Daily Baseload Therms	48,732	50,047	51,245	52,259	53,375	53,862	54,861	56,147	57,379	58,558
Peak Day Therms	796,611	826,402	842,846	859,286	875,724	877,875	908,829	925,275	941,722	958,404
Therms Per Residential Customer	705	700	688	681	673	669	659	652	645	642
Therms Per Commercial Customer	3,027	3,019	2,980	2,958	2,936	2,894	2,874	2,853	2,828	2,848
Therms Per Industrial Customer	24,804	24,495	23,939	23,630	23,255	22,990	22,603	22,327	22,016	21,819
Residential Customers	75,774	78,486	81,225	83,995	86,798	89,640	92,508	95,406	98,335	101,302
Commercial Customers	8,808	8,994	9,183	9,371	9,562	9,753	9,946	10,141	10,336	10,534
Industrial Customers	166	173	180	186	193	201	207	214	221	228
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	84,750	87,654	90,589	93,554	96,555	99,594	102,662	105,762	108,892	112,066

Zone ME-OR	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	7,436,272	7,572,187	7,629,188	7,726,130	7,824,870	7,962,542	8,019,225	8,116,270	8,211,418	8,351,239
Commercial Therms	7,934,620	8,054,908	8,098,727	8,181,383	8,265,851	8,387,504	8,431,499	8,514,210	8,595,044	8,718,393
Industrial Therms	1,510,977	1,523,271	1,523,881	1,530,411	1,537,104	1,549,385	1,550,011	1,556,526	1,562,889	1,575,453
Ind., Inst., & Cmcl. Interup. Therms	1,449,057	1,454,947	1,448,705	1,448,706	1,449,057	1,454,947	1,449,055	1,449,056	1,448,706	1,454,597
Total Core Therms	18,330,926	18,605,314	18,700,500	18,886,630	19,076,882	19,354,378	19,449,790	19,636,063	19,818,058	20,099,863
Daily Baseload Therms	16,392	16,571	16,727	16,822	17,055	17,115	17,273	17,442	17,605	17,722
Peak Day Therms	155,237	161,040	162,613	164,185	165,754	163,467	169,199	170,767	172,333	174,218
Therms Per Residential Customer	511	508	501	495	492	483	479	475	475	473
Therms Per Commercial Customer	3,481	3,474	3,434	3,412	3,390	3,384	3,346	3,325	3,304	3,299
Therms Per Industrial Customer	47,128	47,511	45,133	44,134	44,327	44,681	44,123	44,451	44,621	44,955
Residential Customers	14,566	14,898	15,233	15,570	15,910	16,253	16,599	16,947	17,296	17,650
Commercial Customers	2,279	2,318	2,358	2,398	2,438	2,478	2,520	2,561	2,601	2,643
Industrial Customers	32	32	34	35	35	35	37	38	38	38
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	16,879	17,250	17,627	18,005	18,384	18,768	19,158	19,548	19,937	20,332

Zone ME-WA	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	8,302,958	8,422,670	8,460,388	8,533,377	8,605,905	8,712,641	8,738,745	8,801,452	8,859,299	8,957,207
Commercial Therms	7,265,657	7,343,725	7,355,506	7,396,576	7,437,558	7,507,029	7,510,549	7,544,353	7,574,494	7,636,855
Industrial Therms	2,792,220	2,861,775	2,903,658	2,960,088	3,014,496	3,078,988	3,113,734	3,166,685	3,217,407	3,274,344
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	18,360,835	18,628,170	18,720,552	18,890,041	19,058,969	19,292,664	19,363,038	19,492,939	19,651,200	19,872,406
Daily Baseload Therms	12,952	12,986	13,010	13,099	13,247	13,398	13,492	13,493	13,488	13,614
Peak Day Therms	179,974	184,194	185,740	187,181	188,582	187,110	191,149	192,375	193,529	194,585
Therms Per Residential Customer	562	558	550	544	538	534	526	520	514	511
Therms Per Commercial Customer	4,466	4,433	4,361	4,310	4,260	4,227	4,160	4,112	4,063	4,033
Therms Per Industrial Customer	10,018	9,963	9,594	9,680	9,407	9,432	9,213	8,883	8,939	8,730
Residential Customers	14,780	15,084	15,389	15,692	15,998	16,304	16,610	16,917	17,225	17,534
Commercial Customers	1,627	1,657	1,687	1,716	1,746	1,776	1,805	1,835	1,864	1,894
Industrial Customers	28	29	30	31	32	33	34	36	36	37
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	16,435	16,769	17,106	17,439	17,776	18,112	18,449	18,788	19,125	19,465

Oregon	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	66,000,387	67,756,175	68,797,275	70,197,490	71,608,448	73,393,033	74,414,745	75,815,249	77,204,116	79,018,385
Commercial Therms	39,529,952	40,221,626	40,503,885	40,993,150	41,490,125	42,191,970	42,471,734	42,961,436	43,443,852	44,156,192
Industrial Therms	6,451,990	6,595,808	6,694,320	6,801,835	6,921,493	7,069,452	7,158,965	7,278,174	7,396,233	7,547,473
Ind., Inst., & Cmcl. Interup. Therms	2,716,193	2,728,414	2,715,621	2,715,622	2,716,193	2,728,415	2,716,188	2,716,191	2,715,625	2,727,848
Total Core Therms	114,697,622	117,302,024	118,701,102	120,708,098	122,736,259	125,382,870	126,761,633	128,771,050	130,759,426	133,449,998
Daily Baseload Therms	72,091	73,629	75,056	76,253	77,716	78,303	79,529	81,054	82,556	83,931
Peak Day Therms	1,047,206	1,085,965	1,104,869	1,123,764	1,142,659	1,141,349	1,181,157	1,200,056	1,218,954	1,238,587
Therms Per Residential Customer	667	664	654	647	641	638	628	623	617	614
Therms Per Commercial Customer	3,079	3,072	3,034	3,013	2,992	2,987	2,951	2,931	2,912	2,907
Therms Per Industrial Customer	27,189	26,928	26,213	25,828	25,430	25,226	24,657	24,326	24,009	23,852
Residential Customers	98,908	102,072	105,266	108,496	111,760	115,067	118,402	121,770	125,170	128,614
Commercial Customers	12,840	13,094	13,351	13,607	13,867	14,127	14,391	14,655	14,920	15,189
Industrial Customers	237	245	255	263	272	280	290	299	308	316
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	111,989	115,415								

**Appendix B
Demand Forecast
High Scenario**

Washington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.21%	1.63%	0.70%	1.14%	1.14%	1.54%	0.63%	1.06%	1.01%	1.46%
Residential Therms	152,125,165	154,552,940	155,544,430	157,247,849	158,976,449	161,390,147	162,337,181	164,005,170	165,629,724	168,040,911
Commercial Therms	126,563,800	128,678,777	129,466,719	131,203,701	132,759,356	134,839,345	135,740,201	137,239,216	138,666,437	140,714,903
Industrial Therms	15,721,462	15,998,509	16,148,284	16,361,323	16,577,020	16,847,023	16,989,551	17,191,685	17,386,513	17,651,167
Ind., Inst., & Cmcl. Interrup. Therms	2,319,735	2,328,933	2,320,228	2,320,578	2,321,172	2,330,127	2,321,639	2,321,997	2,321,987	2,331,065
Total Core Therms	296,730,163	301,559,159	303,679,661	307,133,451	310,633,995	315,406,642	317,408,571	320,758,067	324,004,661	328,738,047
Daily BaseLoad Therms	235,679	236,674	238,827	216,254	230,358	249,953	250,378	252,472	254,490	231,535
Peak Day Therms	2,345,533	2,443,744	2,471,210	2,498,338	2,525,273	2,480,008	2,579,942	2,606,263	2,632,368	2,659,913
Therms Per Residential Customer	603	599	590	584	578	574	566	560	554	551
Therms Per Commercial Customer	3,675	3,658	3,610	3,579	3,549	3,533	3,488	3,459	3,428	3,413
Therms Per Industrial Customer	24,086	23,849	23,486	23,263	23,007	22,783	22,467	22,233	22,056	21,865
Residential Customers	252,310	257,972	263,671	269,402	275,179	281,009	286,870	292,771	298,709	304,701
Commercial Customers	34,444	35,179	35,918	36,660	37,410	38,163	38,919	39,681	40,449	41,223
Industrial Customers	653	671	688	703	721	739	756	773	788	807
Interruption Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	287,414	293,829	300,283	306,773	313,316	319,918	326,552	333,232	339,954	346,739

System	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.37%	1.81%	0.84%	1.29%	1.29%	1.71%	0.77%	1.21%	1.16%	1.63%
Residential Therms	218,125,552	222,309,115	224,341,705	227,445,339	230,584,897	234,783,181	236,751,926	239,820,418	242,833,840	247,059,296
Commercial Therms	166,093,752	168,900,403	170,170,604	172,196,851	174,249,480	177,031,315	178,231,935	180,200,653	182,109,889	184,871,095
Industrial Therms	22,172,552	22,594,316	22,832,604	23,163,157	23,498,513	23,916,475	24,148,516	24,469,859	24,782,746	25,196,641
Ind., Inst., & Cmcl. Interrup. Therms	5,035,928	5,057,348	5,035,849	5,038,201	5,037,364	5,058,541	5,037,827	5,038,187	5,037,813	5,058,913
Total Core Therms	411,427,384	418,861,182	422,380,763	427,841,549	433,370,254	440,789,512	444,170,204	449,529,117	454,764,087	462,187,944
Daily BaseLoad Therms	307,770	310,303	313,883	292,507	308,074	328,257	329,907	333,525	337,016	315,466
Peak Day Therms	3,392,739	3,529,709	3,576,079	3,622,103	3,667,933	3,621,378	3,761,099	3,806,319	3,851,322	3,898,499
Therms Per Residential Customer	1,327	1,332	1,325	1,325	1,325	1,331	1,325	1,326	1,327	1,334
Therms Per Commercial Customer	4,520	4,549	4,530	4,540	4,542	4,576	4,555	4,563	4,566	4,593
Therms Per Industrial Customer	59,702	60,582	60,790	61,340	61,905	62,790	62,993	63,535	64,059	64,953
Residential Customers	351,218	360,044	368,938	377,898	386,938	396,075	405,272	414,541	423,879	433,315
Commercial Customers	47,284	48,273	49,269	50,268	51,277	52,290	53,310	54,337	55,369	56,413
Industrial Customers	890	916	943	967	993	1,020	1,047	1,072	1,096	1,124
Interruption Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	399,403	409,244	419,160	429,144	439,219	449,396	459,639	469,961	480,355	490,862

**Appendix B
Demand Forecast
Low Scenario**

7th Day School	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Therms	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Therms	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cmcl. Interrup. Therms										
Total Core Therms	27,489	27,482	27,485	27,651	27,479	27,482	27,484	27,652	27,480	27,482
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	212	211	211	211	211	211	211
Therms Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Therms Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838
Therms Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.23%	0.25%	0.67%	-0.15%	0.26%	0.26%	0.63%	-0.11%	0.26%
Residential Therms	49,268	49,454	49,649	50,054	50,054	50,255	50,459	50,854	50,874	51,085
Commercial Therms	28,792	28,788	28,788	28,907	28,792	28,792	28,792	28,899	28,792	28,792
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	78,060	78,242	78,436	78,961	78,846	79,047	79,251	79,754	79,666	79,877
Daily BaseLoad Therms	53	53	54	54	54	54	54	54	54	54
Peak Day Therms	722	724	726	717	718	731	733	735	737	728
Therms Per Residential Customer	725	727	725	731	731	734	737	737	737	740
Therms Per Commercial Customer	3,199	3,199	3,199	3,212	3,199	3,199	3,199	3,211	3,199	3,199
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	68	68	69	69	69	69	69	69	69	69
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	77	77	78	78	78	78	78	78	78	78
Arlington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.13%	1.08%	1.52%	0.67%	1.09%	1.08%	1.43%	0.68%	1.04%
Residential Therms	3,100,699	3,118,883	3,136,849	3,169,191	3,174,309	3,193,134	3,211,858	3,242,718	3,249,053	3,267,643
Commercial Therms	1,957,200	1,993,454	2,028,162	2,072,144	2,099,637	2,136,005	2,172,175	2,216,007	2,244,056	2,280,007
Industrial Therms	405,763	412,956	419,881	428,686	434,140	441,398	448,616	457,373	462,950	470,124
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,463,662	5,525,292	5,584,893	5,670,021	5,708,086	5,770,537	5,832,649	5,916,098	5,956,059	6,017,774
Daily BaseLoad Therms	5,033	5,137	5,201	5,216	5,239	5,304	5,413	5,507	5,577	5,598
Peak Day Therms	43,612	44,093	44,549	43,720	44,178	45,982	46,457	46,951	47,424	46,499
Therms Per Residential Customer	640	641	642	647	645	647	649	653	652	653
Therms Per Commercial Customer	3,084	3,108	3,131	3,167	3,178	3,203	3,226	3,261	3,272	3,296
Therms Per Industrial Customer	13,992	14,240	14,733	15,042	15,233	15,488	15,741	16,340	16,539	16,796
Residential Customers	4,849	4,866	4,883	4,900	4,918	4,935	4,952	4,969	4,986	5,003
Commercial Customers	635	641	648	654	661	667	673	680	686	692
Industrial Customers	29	29	29	29	29	29	29	28	28	28
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,512	5,536	5,559	5,583	5,607	5,630	5,654	5,677	5,700	5,723
Athens	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.10%	2.13%	2.51%	1.66%	2.00%	1.98%	2.13%	1.72%	1.83%
Residential Therms	287,891	290,897	294,099	298,499	300,617	303,805	307,063	310,849	313,547	316,676
Commercial Therms	123,479	124,522	125,658	127,341	127,985	129,113	130,269	131,672	132,565	133,674
Industrial Therms	30,233	35,472	40,741	46,210	51,305	56,569	61,837	67,269	72,423	77,669
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	441,603	450,892	460,498	472,051	479,908	489,487	499,169	509,790	518,534	528,019
Daily BaseLoad Therms	170	182	155	154	172	172	185	172	201	157
Peak Day Therms	3,525	3,607	3,689	3,373	3,447	3,947	4,028	4,123	4,204	3,828
Therms Per Residential Customer	543	545	547	551	553	555	559	560	560	562
Therms Per Commercial Customer	1,848	1,853	1,862	1,874	1,870	1,874	1,880	1,890	1,894	1,899
Therms Per Industrial Customer	30,233	25,798	27,654	31,367	34,825	31,239	33,668	36,625	39,431	36,246
Residential Customers	530	534	538	542	545	549	553	557	560	564
Commercial Customers	67	67	67	68	68	69	69	70	70	70
Industrial Customers	1	1	1	1	1	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	598	603	607	611	615	620	624	628	632	636
Baker	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.06%	1.06%	1.57%	0.56%	1.04%	1.03%	1.47%	0.58%	1.01%
Residential Therms	2,172,755	2,189,695	2,206,941	2,235,790	2,241,734	2,258,655	2,275,377	2,302,499	2,308,539	2,324,862
Commercial Therms	1,512,891	1,526,794	1,541,010	1,563,236	1,569,897	1,584,119	1,598,341	1,619,713	1,626,858	1,641,080
Industrial Therms	140,414	149,983	159,539	169,845	179,444	189,699	200,369	211,724	222,572	234,073
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,826,059	3,866,472	3,907,491	3,968,872	3,991,075	4,032,474	4,074,088	4,133,936	4,157,969	4,200,016
Daily BaseLoad Therms	1,995	2,030	2,063	2,110	2,128	2,162	2,199	2,239	2,289	2,323
Peak Day Therms	37,131	37,479	37,826	37,240	37,597	38,883	39,229	39,582	39,938	39,293
Therms Per Residential Customer	640	642	644	650	649	651	654	659	658	660
Therms Per Commercial Customer	2,921	2,934	2,948	2,978	2,977	2,991	3,005	3,032	3,034	3,048
Therms Per Industrial Customer	46,805	49,994	53,180	56,615	59,815	63,233	66,790	70,575	74,191	78,024
Residential Customers	3,397	3,411	3,426	3,440	3,454	3,467	3,481	3,495	3,508	3,521
Commercial Customers	518	520	523	525	527	530	532	534	536	538
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,918	3,935	3,951	3,968	3,984	4,000	4,016	4,032	4,047	4,062

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Bend Loop										
Total Therms Pct. Growth		2.74%	2.64%	3.11%	1.99%	2.45%	2.39%	2.84%	1.79%	2.23%
Residential Therms	25,749,332	26,594,585	27,418,070	28,392,931	29,073,136	29,898,605	30,724,327	31,707,992	32,379,192	33,205,698
Commercial Therms	12,027,078	12,231,262	12,425,543	12,485,727	12,817,120	13,012,369	13,207,773	13,468,649	13,599,752	13,795,636
Industrial Therms	699,198	723,805	748,229	776,079	797,657	822,519	847,440	875,782	897,477	922,585
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	38,495,608	39,549,651	40,591,842	41,854,737	42,687,913	43,733,493	44,779,540	46,052,422	46,876,422	47,923,919
Daily BaseLoad Therms	31,174	32,061	32,881	33,707	34,430	35,253	36,134	37,045	37,914	38,665
Peak Day Therms	375,206	385,328	395,427	401,054	411,062	425,899	436,032	446,284	456,427	461,297
Therms Per Residential Customer	725	736	748	763	770	781	792	807	813	824
Therms Per Commercial Customer	2,783	2,807	2,829	2,866	2,873	2,894	2,916	2,951	2,958	2,979
Therms Per Industrial Customer	20,365	20,461	20,588	20,816	20,883	21,043	21,191	21,445	21,540	21,703
Residential Customers	35,553	36,111	36,661	37,204	37,738	38,266	38,786	39,301	39,808	40,309
Commercial Customers	4,321	4,357	4,392	4,427	4,461	4,496	4,530	4,564	4,597	4,631
Industrial Customers	34	35	36	37	38	39	40	41	42	43
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	39,908	40,503	41,089	41,668	42,238	42,800	43,356	43,906	44,447	44,983
Bremerton (Shelton)										
Total Therms Pct. Growth		1.51%	1.49%	1.91%	1.02%	1.42%	1.40%	1.80%	0.95%	1.35%
Residential Therms	22,094,147	22,434,593	22,776,940	23,223,400	23,465,166	23,807,573	24,149,980	24,595,784	24,836,172	25,178,579
Commercial Therms	11,820,486	12,014,645	12,208,696	12,455,438	12,598,748	12,792,827	12,986,907	13,233,403	13,375,851	13,569,931
Industrial Therms	419,511	425,079	430,680	438,177	441,942	447,544	453,146	460,630	464,373	469,975
Ind., Inst., & Cncl. Interup. Therms	1,590,071	1,592,329	1,592,392	1,598,659	1,592,517	1,592,516	1,598,393	1,592,517	1,592,516	1,592,516
Total Core Therms	35,924,215	36,466,646	37,008,708	37,715,294	38,096,372	38,640,460	39,192,550	39,888,211	40,268,912	40,811,001
Daily BaseLoad Therms	31,335	31,841	32,311	32,757	33,155	33,624	34,129	34,611	35,118	35,551
Peak Day Therms	283,449	287,698	291,945	293,069	297,249	304,860	309,104	313,532	317,777	318,439
Therms Per Residential Customer	646	651	656	664	665	670	675	682	684	688
Therms Per Commercial Customer	3,722	3,751	3,780	3,825	3,838	3,867	3,895	3,939	3,951	3,979
Therms Per Industrial Customer	27,967	28,339	28,712	29,212	29,463	29,836	30,210	30,709	30,958	31,332
Residential Customers	34,179	34,455	34,728	35,001	35,270	35,537	35,803	36,067	36,328	36,588
Commercial Customers	3,176	3,203	3,230	3,256	3,282	3,308	3,334	3,360	3,385	3,410
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	37,372	37,675	37,975	38,274	38,569	38,863	39,154	39,443	39,731	40,016
Brouillette Hop										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Therms	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Therms	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,489	27,482	27,485	27,651	27,479	27,482	27,484	27,652	27,480	27,482
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	212	212	211	211	211	211	211
Therms Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Therms Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,838	1,839	1,852	1,838	1,838
Therms Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth		2.69%	2.40%	2.86%	1.75%	2.24%	2.12%	2.48%	1.49%	1.88%
Residential Therms	6,005,919	6,170,096	6,334,716	6,524,392	6,645,728	6,802,435	6,953,401	7,132,377	7,243,676	7,384,748
Commercial Therms	4,512,470	4,628,031	4,735,116	4,866,526	4,948,437	5,065,753	5,159,912	5,285,111	5,361,794	5,460,535
Industrial Therms	257,667	259,526	261,437	264,453	265,323	267,252	269,190	272,093	273,075	275,032
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	10,776,055	11,065,653	11,331,268	11,655,371	11,859,488	12,125,440	12,382,502	12,689,582	12,878,546	13,120,314
Daily BaseLoad Therms	8,370	8,571	8,262	8,317	9,194	9,372	9,542	9,318	9,662	9,287
Peak Day Therms	68,917	70,684	72,276	71,729	73,243	77,441	78,967	80,913	82,375	80,913
Therms Per Residential Customer	496	501	505	512	514	518	522	528	529	532
Therms Per Commercial Customer	3,800	3,845	3,887	3,947	3,967	4,007	4,045	4,099	4,117	4,152
Therms Per Industrial Customer	19,821	19,964	20,111	20,343	20,409	20,558	20,707	20,930	21,006	21,156
Residential Customers	12,118	12,329	12,534	12,735	12,933	13,128	13,319	13,507	13,692	13,874
Commercial Customers	1,188	1,204	1,218	1,233	1,247	1,262	1,276	1,289	1,302	1,315
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,319	13,546	13,765	13,981	14,193	14,403	14,608	14,810	15,008	15,202
Castle Rock										
Total Therms Pct. Growth		0.21%	0.20%	0.62%	-0.22%	0.20%	0.20%	0.65%	-0.25%	0.20%
Residential Therms	33,832	34,243	34,652	35,234	35,468	36,878	36,287	36,888	37,110	37,521
Commercial Therms	133,423	133,368	133,299	133,758	133,145	133,075	133,004	133,504	132,862	132,790
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	167,255	167,612	167,951	168,992	168,613	168,953	169,292	170,392	169,972	170,311
Daily BaseLoad Therms	230	229	229	231	231	230	230	231	231	232
Peak Day Therms	1,115	1,118	1,120	1,141	1,143	1,128	1,131	1,134	1,137	1,157
Therms Per Residential Customer	458	457	455	455	452	450	449	450	447	447
Therms Per Commercial Customer	2,780	2,779	2,777	2,787	2,774	2,772	2,771	2,781	2,768	2,766
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	74	75	76	77	79	80	81	82	83	84
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	122	123	124	125	127	128	129	130	131	132

**Appendix B
Demand Forecast
Low Scenario**

Chemult	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.08%	0.07%	0.58%	-0.44%	0.07%	0.06%	0.58%	-0.46%	0.05%
Residential Therms	12,810	12,849	12,887	12,987	12,961	12,995	13,029	13,124	13,090	13,119
Commercial Therms	39,258	39,240	39,260	39,463	39,259	39,259	39,259	39,466	39,259	39,259
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	52,068	52,109	52,147	52,450	52,220	52,254	52,288	52,590	52,349	52,378
Daily Baseload Therms	42	42	41	42	42	42	42	42	42	42
Peak Day Therms	377	377	377	379	379	378	378	379	379	380
Therms Per Residential Customer	493	494	496	499	498	500	501	505	503	495
Therms Per Commercial Customer	1,963	1,963	1,963	1,973	1,963	1,963	1,963	1,973	1,963	1,963
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	26	26	26	26	26	26	26	26	26	27
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	46	46	46	46	46	46	46	46	46	47
Dehawn Dairy	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%
Residential Therms	3,670	3,670	3,670	3,681	3,670	3,670	3,670	3,681	3,670	3,670
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,670	3,670	3,670	3,681	3,670	3,670	3,670	3,681	3,670	3,670
Daily Baseload Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	1,835	1,835	1,835	1,840	1,835	1,835	1,835	1,840	1,835	1,835
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.05%	0.14%	0.70%	-0.31%	0.15%	0.15%	0.45%	-0.17%	0.15%
Residential Therms	13,951	13,940	13,940	14,015	13,952	13,952	13,951	13,994	13,950	13,950
Commercial Therms	91,043	91,106	91,249	91,910	91,640	91,802	91,963	92,397	92,262	92,421
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	104,994	105,046	105,189	105,926	105,592	105,754	105,914	106,391	106,213	106,371
Daily Baseload Therms	49	48	40	42	49	49	41	50	42	42
Peak Day Therms	1,025	1,026	1,027	939	940	1,031	1,032	1,034	1,035	946
Therms Per Residential Customer	581	581	581	584	581	581	581	583	581	581
Therms Per Commercial Customer	7,003	7,008	7,019	7,070	7,049	7,062	7,074	7,107	7,097	7,109
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.23%	1.21%	1.63%	0.76%	1.16%	1.15%	1.54%	0.73%	1.11%
Residential Therms	5,222,800	5,292,310	5,362,310	5,456,273	5,503,127	5,573,140	5,643,152	5,736,731	5,783,454	5,853,467
Commercial Therms	3,362,995	3,406,524	3,448,993	3,506,392	3,534,482	3,577,012	3,619,544	3,676,656	3,704,880	3,747,505
Industrial Therms	460,482	459,317	458,188	458,521	456,019	454,889	453,760	453,976	451,556	450,426
Ind., Inst., & Cmcl. Interup. Therms	79,287	79,291	79,291	79,565	79,297	79,297	79,297	79,553	79,297	79,297
Total Core Therms	9,125,564	9,237,442	9,348,781	9,500,752	9,572,924	9,684,337	9,795,772	9,946,916	10,019,186	10,130,695
Daily Baseload Therms	8,574	8,701	8,801	8,869	8,936	9,028	9,154	9,284	9,381	9,448
Peak Day Therms	68,840	69,663	70,486	70,458	71,271	73,018	73,841	74,730	75,553	75,397
Therms Per Residential Customer	609	613	617	623	624	628	632	639	640	644
Therms Per Commercial Customer	3,369	3,388	3,405	3,437	3,440	3,458	3,475	3,506	3,509	3,527
Therms Per Industrial Customer	153,494	153,106	152,729	152,840	152,006	151,630	151,253	151,325	150,519	150,142
Residential Customers	8,581	8,640	8,698	8,756	8,813	8,870	8,927	8,983	9,039	9,095
Commercial Customers	998	1,006	1,013	1,020	1,027	1,034	1,042	1,049	1,056	1,063
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	9,583	9,649	9,715	9,780	9,844	9,908	9,972	10,036	10,099	10,161
Finley	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.34%	1.24%	1.87%	0.66%	1.26%	1.23%	1.75%	0.69%	1.21%
Residential Therms	16,762	17,002	17,240	17,582	17,728	17,974	18,220	18,560	18,715	18,964
Commercial Therms	62,272	63,092	63,846	65,022	65,423	66,222	67,014	68,165	68,605	69,414
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	79,034	80,094	81,086	82,604	83,151	84,195	85,234	86,725	87,320	88,379
Daily Baseload Therms	21	22	6	6	22	23	23	6	13	6
Peak Day Therms	619	626	632	624	630	658	664	677	684	668
Therms Per Residential Customer	550	550	550	553	549	549	549	553	551	552
Therms Per Commercial Customer	4,790	4,853	4,911	5,002	5,033	5,094	5,155	5,243	5,277	5,340
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	31	31	31	32	32	33	33	34	34	34
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	44	44	44	45	45	46	46	47	47	47

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Gilchrist										
Total Therms Pct. Growth		0.89%	0.86%	1.36%	0.29%	0.76%	0.73%	1.20%	0.13%	0.61%
Residential Therms	111,303	112,340	113,363	114,921	115,339	116,267	117,159	118,572	119,800	119,556
Commercial Therms	135,760	136,906	138,038	139,907	140,223	141,249	142,237	143,945	144,050	144,887
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	247,063	249,246	251,402	254,828	255,562	257,516	259,396	262,517	262,850	264,443
Daily Baseload Therms	137	138	140	141	142	143	144	145	146	147
Peak Day Therms	1,950	1,967	1,983	1,996	2,012	2,032	2,046	2,061	2,074	2,081
Therms Per Residential Customer	589	594	600	607	609	614	618	626	627	630
Therms Per Commercial Customer	2,951	2,976	2,969	3,009	3,016	3,038	3,027	-	3,063	3,083
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	189	189	189	189	189	189	189	189	190	190
Commercial Customers	46	46	47	47	47	47	47	47	47	47
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	235	235	236	236	236	236	236	236	237	237
Grandview										
Total Therms Pct. Growth		6.67%	6.27%	6.17%	5.19%	5.06%	4.72%	4.49%	4.02%	3.86%
Residential Therms	539,328	545,730	552,403	561,516	565,885	572,267	578,554	586,161	590,657	596,483
Commercial Therms	2,088,934	2,260,674	2,432,544	2,609,936	2,772,541	2,937,132	3,098,468	3,257,678	3,409,671	3,559,668
Industrial Therms	40,756	40,730	40,727	40,971	40,756	40,755	40,754	40,919	40,753	40,756
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,669,018	2,847,134	3,025,673	3,212,423	3,379,183	3,550,153	3,717,776	3,884,757	4,041,081	4,196,907
Daily Baseload Therms	1,809	1,929	2,708	2,908	3,053	2,530	2,613	3,621	3,832	4,008
Peak Day Therms	13,247	13,780	14,308	12,635	13,018	15,906	16,399	16,944	17,412	14,868
Therms Per Residential Customer	538	541	545	550	551	554	557	561	562	564
Therms Per Commercial Customer	10,956	11,744	12,526	13,319	14,027	14,734	15,414	16,073	16,687	17,283
Therms Per Industrial Customer	4,076	4,073	4,073	4,097	4,076	4,075	4,075	4,092	4,075	4,076
Residential Customers	1,002	1,008	1,014	1,020	1,027	1,033	1,039	1,045	1,051	1,057
Commercial Customers	191	193	194	196	198	199	201	203	204	206
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,202	1,211	1,218	1,226	1,234	1,242	1,250	1,258	1,265	1,273
Hermiston										
Total Therms Pct. Growth		1.31%	1.32%	1.84%	0.80%	1.27%	1.26%	1.68%	0.80%	1.21%
Residential Therms	2,188,027	2,227,840	2,268,335	2,322,019	2,350,282	2,390,802	2,431,323	2,483,578	2,512,530	2,553,051
Commercial Therms	2,870,612	2,908,470	2,947,190	3,000,895	3,025,687	3,064,411	3,103,151	3,154,836	3,180,834	3,219,534
Industrial Therms	174,017	173,974	173,974	174,891	174,017	174,017	174,017	174,806	174,017	174,017
Ind., Inst., & Cncl. Interup. Therms	673,177	672,958	672,959	676,060	673,177	673,178	673,179	675,620	673,177	673,178
Total Core Therms	5,905,833	5,983,243	6,062,458	6,173,866	6,223,163	6,302,408	6,381,669	6,488,840	6,540,558	6,619,779
Daily Baseload Therms	5,803	5,867	5,938	6,051	6,095	6,166	6,230	6,288	6,403	6,480
Peak Day Therms	44,818	45,410	46,000	44,824	45,391	47,910	48,499	49,234	49,823	48,359
Therms Per Residential Customer	506	510	514	522	523	527	531	538	540	544
Therms Per Commercial Customer	3,754	3,778	3,804	3,840	3,855	3,880	3,905	3,946	3,955	3,979
Therms Per Industrial Customer	21,752	21,747	21,747	21,861	21,752	21,752	21,752	21,851	21,752	21,752
Residential Customers	4,326	4,368	4,410	4,452	4,494	4,534	4,575	4,615	4,655	4,695
Commercial Customers	765	770	775	780	785	790	795	800	804	809
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,100	5,147	5,194	5,241	5,287	5,333	5,379	5,424	5,469	5,513
Huntington										
Total Therms Pct. Growth		2.37%	2.33%	2.94%	1.67%	2.23%	2.22%	2.77%	1.61%	2.15%
Residential Therms	62,578	63,775	64,984	66,609	67,461	68,668	69,949	71,603	72,494	73,783
Commercial Therms	27,904	28,851	29,802	30,963	31,744	32,722	33,725	34,947	35,776	36,818
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	90,482	92,626	94,785	97,572	99,205	101,420	103,675	106,550	108,270	110,601
Daily Baseload Therms	9	10	10	9	9	9	10	10	11	11
Peak Day Therms	1,015	1,039	1,062	1,069	1,092	1,135	1,159	1,186	1,211	1,214
Therms Per Residential Customer	468	472	478	486	488	493	498	507	509	514
Therms Per Commercial Customer	1,735	1,744	1,754	1,806	1,806	1,822	1,832	1,858	1,877	1,904
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	134	135	136	137	138	139	140	141	142	144
Commercial Customers	16	17	17	17	18	18	18	19	19	19
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	150	152	153	154	156	157	159	160	162	163

**Appendix B
Demand Forecast
Low Scenario**

LDS Church	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,058	5,056	5,056	5,079	5,056	5,056	5,056	5,079	5,056	5,056
Commercial Therms	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	9,961	9,959	9,959	10,008	9,959	9,959	10,009	9,959	9,959	9,959
Daily BaseLoad Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	57	57	57	57	57	57	57	57	57	57
Therms Per Residential Customer	1,265	1,264	1,264	1,270	1,264	1,264	1,264	1,270	1,264	1,264
Therms Per Commercial Customer	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5

Longview South Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,098,280	1,127,459	1,156,940	1,191,111	1,216,391	1,245,870	1,275,344	1,308,835	1,334,401	1,363,852
Commercial Therms	4,293,461	4,347,162	4,402,054	4,473,832	4,513,386	4,568,309	4,623,232	4,691,919	4,733,309	4,788,232
Industrial Therms	188,441	184,840	181,297	178,331	174,234	170,702	167,174	164,043	160,100	156,588
Ind., Inst., & Cmcl. Interup. Therms	84,315	84,277	84,271	84,590	84,260	84,267	84,319	84,553	84,291	84,274
Total Core Therms	5,644,497	5,743,738	5,824,562	5,927,864	5,988,271	6,069,168	6,150,069	6,249,349	6,312,101	6,392,946
Daily BaseLoad Therms	4,796	4,861	3,379	3,738	5,133	5,184	5,137	3,629	4,468	4,030
Peak Day Therms	55,921	56,685	57,448	56,649	57,390	59,847	60,609	61,487	62,249	61,200
Therms Per Residential Customer	525	531	537	545	550	556	562	569	573	579
Therms Per Commercial Customer	4,612	4,634	4,658	4,698	4,704	4,728	4,750	4,787	4,796	4,818
Therms Per Industrial Customer	14,495	14,218	13,946	13,718	13,403	13,131	12,860	12,619	12,315	12,045
Residential Customers	2,092	2,123	2,154	2,184	2,213	2,242	2,271	2,300	2,328	2,355
Commercial Customers	931	938	945	952	959	966	973	980	987	994
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	3,037	3,075	3,113	3,150	3,187	3,223	3,258	3,294	3,329	3,363

Madras	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	681,002	690,982	701,191	715,484	721,968	732,333	742,697	756,716	763,420	773,811
Commercial Therms	1,181,139	1,192,402	1,204,035	1,222,258	1,227,827	1,239,638	1,251,450	1,269,018	1,275,071	1,286,911
Industrial Therms	873,982	882,591	891,472	905,564	909,607	918,624	927,641	941,279	945,656	954,695
Ind., Inst., & Cmcl. Interup. Therms	278,365	278,292	278,292	279,828	278,366	278,365	278,365	279,681	278,366	278,365
Total Core Therms	3,014,489	3,044,268	3,074,989	3,123,134	3,137,768	3,168,960	3,200,153	3,246,694	3,262,513	3,293,783
Daily BaseLoad Therms	2,287	2,335	2,341	2,353	2,351	2,375	2,425	2,459	2,472	2,485
Peak Day Therms	25,993	26,264	26,535	25,986	26,252	27,350	27,625	27,891	28,167	27,581
Therms Per Residential Customer	514	515	517	521	520	522	524	528	527	529
Therms Per Commercial Customer	3,093	3,118	3,141	3,163	3,160	3,215	3,239	3,277	3,287	3,309
Therms Per Industrial Customer	48,555	49,033	49,526	50,309	50,534	51,035	51,536	52,293	52,536	53,039
Residential Customers	1,325	1,341	1,357	1,372	1,388	1,403	1,418	1,433	1,447	1,462
Commercial Customers	382	382	383	384	385	386	386	387	388	389
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,726	1,743	1,759	1,775	1,792	1,808	1,823	1,839	1,854	1,870

McCleary (Aberdeen/Hoquiam)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,448,751	2,501,005	2,534,028	2,579,137	2,601,122	2,634,190	2,667,259	2,710,346	2,732,532	2,766,613
Commercial Therms	3,083,675	3,098,749	3,114,881	3,144,446	3,148,402	3,164,503	3,180,665	3,207,154	3,213,071	3,229,310
Industrial Therms	205,866	203,717	201,634	200,341	197,531	195,452	193,374	191,858	189,210	187,135
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	5,738,292	5,803,471	5,850,543	5,923,923	5,947,054	5,994,146	6,041,299	6,109,359	6,135,813	6,183,059
Daily BaseLoad Therms	5,406	5,431	4,483	4,602	5,554	5,581	5,606	4,681	5,369	4,751
Peak Day Therms	36,120	36,418	36,715	35,190	35,472	37,713	38,010	38,417	38,714	36,989
Therms Per Residential Customer	672	676	679	686	687	690	694	700	700	704
Therms Per Commercial Customer	4,286	4,293	4,303	4,330	4,322	4,330	4,340	4,362	4,357	4,366
Therms Per Industrial Customer	15,836	15,671	15,510	15,411	15,195	15,035	14,875	14,768	14,555	14,395
Residential Customers	3,672	3,702	3,731	3,760	3,789	3,818	3,846	3,874	3,902	3,930
Commercial Customers	719	722	724	726	728	731	733	735	737	740
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,404	4,436	4,468	4,499	4,530	4,561	4,592	4,622	4,653	4,683

Milton-Freewater	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	104,809	105,943	107,114	108,921	109,505	110,676	111,848	113,570	114,203	115,375
Commercial Therms	301,862	305,744	310,539	316,934	320,280	325,079	329,878	335,990	339,499	344,297
Industrial Therms	18,285	17,645	17,012	16,474	15,752	15,118	14,484	13,918	13,219	12,585
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	424,156	429,332	434,664	442,329	445,538	450,873	456,209	463,477	466,921	472,257
Daily BaseLoad Therms	355	356	348	354	378	382	384	374	392	382
Peak Day Therms	4,848	4,909	4,969	4,870	4,929	5,153	5,214	5,276	5,337	5,224
Therms Per Residential Customer	423	423	423	426	423	424	424	427	425	426
Therms Per Commercial Customer	2,809	2,827	2,845	2,878	2,882	2,900	2,918	2,948	2,954	2,972
Therms Per Industrial Customer	4,302	4,152	4,003	3,876	3,706	3,557	3,408	3,275	3,110	2,961
Residential Customers	248	251	253	256	259	261	264	266	269	271
Commercial Customers	107	108	109	110	111	112	113	114	115	116
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	359	363	367	370	374	377	381	384	388	391

**Appendix B
Demand Forecast
Low Scenario**

Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.85%	0.84%	1.23%	0.43%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	118,387	119,342	119,938	121,044	121,097	121,672	122,247	123,363	123,406	123,982
Commercial Therms	397,938	401,747	405,526	410,881	413,090	416,868	420,647	426,074	428,215	431,994
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	516,726	521,110	525,464	531,925	534,187	538,540	542,894	549,437	551,622	555,975
Daily BaseLoad Therms	521	526	530	535	539	544	548	553	557	562
Peak Day Therms	5,692	5,740	5,787	5,839	5,886	5,929	5,977	6,024	6,071	6,123
Therms Per Residential Customer	539	541	542	545	544	545	546	550	549	550
Therms Per Commercial Customer	8,843	8,887	8,897	8,934	8,887	8,945	8,949	8,980	8,996	9,008
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	221	221	222	223	223	224	224	225	225
Commercial Customers	45	45	46	46	46	47	47	47	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	265	266	267	268	269	270	271	272	272	273
Moses Lake	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.44%	0.37%	0.82%	-0.17%	0.34%	0.31%	0.69%	-0.11%	0.28%
Residential Therms	286,703	288,346	289,770	292,634	292,333	293,690	294,946	297,445	297,355	298,517
Commercial Therms	2,198,693	2,211,387	2,221,977	2,242,546	2,240,645	2,250,608	2,259,630	2,277,146	2,276,943	2,285,276
Industrial Therms	110,771	107,770	105,282	103,255	100,902	98,536	96,361	94,682	92,172	90,154
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,596,167	2,607,503	2,617,028	2,638,434	2,633,880	2,642,834	2,650,936	2,669,274	2,666,471	2,673,946
Daily BaseLoad Therms	2,505	2,512	2,528	2,556	2,566	2,580	2,583	2,573	2,600	2,624
Peak Day Therms	16,136	16,172	16,196	15,815	15,826	16,331	16,349	16,443	16,459	15,982
Therms Per Residential Customer	400	402	404	407	407	408	410	413	413	414
Therms Per Commercial Customer	5,746	5,773	5,796	5,846	5,836	5,859	5,876	5,920	5,913	5,931
Therms Per Industrial Customer	13,846	13,471	13,160	12,907	12,613	12,317	12,045	11,835	11,522	11,269
Residential Customers	717	718	718	719	719	719	720	720	721	721
Commercial Customers	383	383	383	384	384	384	385	385	385	385
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,108	1,109	1,109	1,110	1,111	1,111	1,112	1,112	1,113	1,114
Moxee (Beauchene)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	612,043	623,141	634,303	648,520	656,383	667,068	677,541	690,624	697,708	707,446
Commercial Therms	506,678	533,560	560,364	589,633	613,193	638,859	664,005	691,261	712,465	735,854
Industrial Therms	610,882	602,182	593,650	586,124	576,646	568,449	560,440	553,362	544,946	537,375
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,729,604	1,758,883	1,788,317	1,824,276	1,846,222	1,874,376	1,901,987	1,935,247	1,955,119	1,980,675
Daily BaseLoad Therms	299	332	376	477	499	356	377	417	550	563
Peak Day Therms	10,429	10,677	10,922	10,848	11,079	11,741	11,969	12,298	12,513	12,258
Therms Per Residential Customer	562	565	567	573	572	575	577	582	581	583
Therms Per Commercial Customer	8,011	8,336	8,655	9,017	9,263	9,570	9,825	10,147	10,329	10,587
Therms Per Industrial Customer	49,531	48,498	47,811	47,048	46,134	45,329	44,545	43,699	42,624	41,900
Residential Customers	1,089	1,103	1,118	1,133	1,147	1,161	1,174	1,187	1,200	1,213
Commercial Customers	63	64	65	65	66	67	68	68	69	70
Industrial Customers	12	12	12	12	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,165	1,180	1,195	1,210	1,225	1,240	1,254	1,268	1,282	1,295
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
North Bend	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		4.26%	4.15%	4.70%	3.19%	3.66%	3.54%	4.01%	2.82%	3.23%
Residential Therms	4,985	5,167	5,347	5,570	5,716	5,903	6,093	6,323	6,483	6,679
Commercial Therms	181,946	190,150	198,480	208,221	215,286	223,552	231,830	241,484	248,653	257,011
Industrial Therms	9,851	9,850	9,850	9,922	9,857	9,853	9,855	9,907	9,856	9,860
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	196,782	205,168	213,677	223,712	230,860	239,307	247,778	257,714	264,992	273,550
Daily BaseLoad Therms	32	31	31	33	33	33	32	31	32	33
Peak Day Therms	3,206	3,356	3,506	3,553	3,700	3,953	4,104	4,251	4,402	4,432
Therms Per Residential Customer	1,246	1,292	1,337	1,392	1,429	1,476	1,523	1,581	1,621	1,670
Therms Per Commercial Customer	2,126	2,161	2,198	2,252	2,274	2,309	2,343	2,393	2,415	2,448
Therms Per Industrial Customer	4,926	4,925	4,925	4,961	4,928	4,928	4,927	4,953	4,928	4,930
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	86	88	90	92	95	97	99	101	103	105
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	92	94	96	98	101	103	105	107	109	111
Nyssa-Ontario	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.03%	1.03%	1.53%	0.51%	1.00%	0.99%	1.45%	0.50%	0.96%
Residential Therms	2,020,761	2,044,500	2,068,516	2,104,044	2,117,006	2,141,029	2,165,052	2,200,198	2,213,252	2,237,275
Commercial Therms	2,449,515	2,481,485	2,513,777	2,559,304	2,578,844	2,611,146	2,643,449	2,688,594	2,708,189	2,740,491
Industrial Therms	450,433	454,239	458,102	463,332	465,446	469,334	473,220	478,254	480,992	484,880
Ind., Inst., & Cmcl. Interup. Therms	868,088	867,947	867,968	872,356	868,088	868,090	868,091	872,111	868,088	868,090
Total Core Therms	5,788,798	5,848,190	5,908,364	5,999,036	6,029,388	6,089,599	6,149,812	6,239,157	6,270,520	6,330,736
Daily BaseLoad Therms	3,640	3,666	3,726	3,764	3,786	3,806	3,828	3,844	3,889	3,935
Peak Day Therms	41,718	42,151	42,583	42,319	42,741	44,006	44,437	45,002	45,433	44,989
Therms Per Residential Customer	526	529	532	538	538	541	543	549	549	552
Therms Per Commercial Customer	2,589	2,606	2,623	2,654	2,658	2,674	2,691	2,721	2,724	2,741
Therms Per Industrial Customer	19,100	18,993	18,799	18,765	18,611	18,506	18,351	18,357	18,225	18,143
Residential Customers	3,843	3,867	3,891	3,914	3,937	3,961	3,984	4,007	4,030	4,052
Commercial Customers	946	952	958	964	970	976	982	988	994	1,000
Industrial Customers	24	24	24	25	25	25	26	26	26	27
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,814	4,844	4,874	4,904	4,934	4,963	4,993	5,022	5,051	5,080

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Othello										
Total Therms Pct. Growth		0.71%	0.65%	0.89%	0.35%	0.62%	0.87%	1.03%	0.36%	0.62%
Residential Therms	597,416	598,601	599,710	603,536	601,992	603,072	604,263	608,182	606,682	607,804
Commercial Therms	1,399,263	1,323,589	1,336,746	1,353,487	1,344,004	1,376,776	1,390,837	1,409,244	1,420,105	1,433,397
Industrial Therms	200,749	200,749	200,749	201,637	200,749	200,749	200,749	201,637	200,749	200,749
Ind., Inst., & Cmcl. Interup. Therms	81,766	81,765	81,765	82,064	81,766	81,766	81,766	82,062	81,766	81,766
Total Core Therms	2,189,214	2,204,724	2,218,991	2,240,723	2,248,531	2,262,383	2,277,624	2,301,124	2,309,323	2,323,736
Daily BaseLoad Therms	1,636	1,649	1,661	1,676	1,690	1,702	1,715	1,733	1,747	1,758
Peak Day Therms	11,871	11,934	11,993	12,019	12,085	12,165	12,228	12,284	12,351	12,387
Therms Per Residential Customer	542	541	541	543	541	540	540	542	540	540
Therms Per Commercial Customer	4,279	4,295	4,305	4,328	4,330	4,340	4,355	4,381	4,387	4,397
Therms Per Industrial Customer	22,308	22,308	22,308	22,404	22,308	22,308	22,308	22,404	22,308	22,308
Residential Customers	1,103	1,106	1,108	1,111	1,113	1,116	1,119	1,121	1,124	1,127
Commercial Customers	306	308	310	313	315	317	319	322	324	326
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,419	1,424	1,429	1,434	1,438	1,443	1,448	1,453	1,458	1,462
Patterson										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	39	48	55	63	71	79	88	95	104	112
Commercial Therms	290,342	290,185	290,185	290,747	290,342	290,342	290,342	290,436	290,339	290,341
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	290,381	290,233	290,240	290,810	290,413	290,421	290,430	290,531	290,443	290,453
Daily BaseLoad Therms	144	147	142	141	144	144	144	144	140	140
Peak Day Therms	341	343	344	345	343	343	345	341	342	348
Therms Per Residential Customer	39	48	55	63	71	79	88	95	104	112
Therms Per Commercial Customer	58,068	58,037	58,037	58,149	58,068	58,068	58,068	58,087	58,068	58,068
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	2,739,718	2,768,686	2,798,044	2,842,457	2,857,427	2,886,794	2,916,160	2,959,928	2,975,137	3,004,504
Commercial Therms	2,275,059	2,292,290	2,309,845	2,338,959	2,345,432	2,362,993	2,380,554	2,408,981	2,415,806	2,433,367
Industrial Therms	150,001	149,992	149,999	150,856	150,002	149,998	150,005	150,810	150,032	150,026
Ind., Inst., & Cmcl. Interup. Therms	637,873	637,776	637,776	640,321	637,873	637,873	637,873	640,127	637,873	637,873
Total Core Therms	5,802,651	5,848,743	5,895,665	5,972,593	5,990,734	6,037,658	6,084,592	6,159,846	6,178,848	6,225,769
Daily BaseLoad Therms	4,486	4,527	4,558	4,561	4,585	4,626	4,672	4,717	4,740	4,746
Peak Day Therms	59,914	60,399	60,884	60,385	61,063	62,410	62,895	63,462	63,937	63,525
Therms Per Residential Customer	533	535	537	542	542	544	546	551	550	552
Therms Per Commercial Customer	2,857	2,944	2,970	2,992	2,985	2,991	2,998	3,019	3,013	3,019
Therms Per Industrial Customer	25,000	24,999	25,000	25,143	25,000	25,000	25,001	25,135	25,005	25,004
Residential Customers	5,138	5,173	5,207	5,241	5,275	5,309	5,342	5,376	5,409	5,441
Commercial Customers	769	774	778	782	786	790	794	798	802	806
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,915	5,953	5,992	6,030	6,068	6,106	6,143	6,180	6,217	6,254
Plymouth										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Therms	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Therms	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,489	27,482	27,485	27,651	27,479	27,482	27,484	27,652	27,480	27,482
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	212	212	211	211	211	211	211
Therms Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Therms Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,838	1,839	1,852	1,838	1,838
Therms Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,576,396	1,625,368	1,674,724	1,734,406	1,774,102	1,823,449	1,872,780	1,932,159	1,971,623	2,020,920
Commercial Therms	1,672,681	1,696,966	1,721,637	1,756,337	1,771,584	1,796,286	1,821,001	1,854,889	1,870,571	1,895,296
Industrial Therms	403,236	403,780	404,410	407,356	405,775	406,412	407,053	409,733	408,343	408,990
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,652,313	3,726,114	3,800,771	3,898,099	3,951,461	4,026,147	4,100,824	4,196,781	4,250,537	4,325,207
Daily BaseLoad Therms	2,463	2,480	2,526	2,642	2,688	2,735	2,749	2,771	2,850	2,931
Peak Day Therms	35,317	36,041	36,766	36,517	37,223	38,950	39,674	40,409	41,134	40,762
Therms Per Residential Customer	574	582	591	603	608	616	624	635	640	647
Therms Per Commercial Customer	3,139	3,159	3,180	3,219	3,222	3,242	3,262	3,299	3,303	3,322
Therms Per Industrial Customer	12,601	12,618	12,638	12,730	12,680	12,700	12,720	12,804	12,761	12,781
Residential Customers	2,747	2,791	2,835	2,877	2,919	2,961	3,002	3,042	3,082	3,121
Commercial Customers	533	537	541	546	550	554	558	562	566	570
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,312	3,360	3,408	3,455	3,501	3,547	3,592	3,636	3,680	3,724

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sedro-Woolley Loop										
Total Thems Pct. Growth		0.77%	0.79%	1.23%	0.36%	0.79%	0.76%	1.19%	0.39%	0.78%
Residential Thems	16,642,680	16,794,574	16,929,359	17,141,257	17,203,580	17,341,481	17,480,229	17,692,520	17,760,547	17,902,395
Commercial Thems	9,423,327	9,501,914	9,582,201	9,704,400	9,745,633	9,827,778	9,910,427	10,032,820	10,077,512	10,162,009
Industrial Thems	1,069,269	1,069,137	1,069,136	1,072,912	1,069,269	1,069,269	1,072,649	1,072,649	1,069,269	1,069,269
Ind., Inst., & Cncl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	27,155,276	27,365,625	27,580,696	27,918,569	28,018,482	28,238,528	28,459,923	28,797,989	28,907,328	29,133,672
Daily Baseload Thems	25,662	25,782	24,587	24,181	26,450	26,574	26,699	25,903	26,345	25,066
Peak Day Thems	159,380	160,526	161,679	160,047	161,194	165,631	166,818	168,464	169,671	167,501
Thems Per Residential Customer	623	623	624	628	626	627	628	631	630	631
Thems Per Commercial Customer	2,823	2,833	2,845	2,868	2,868	2,880	2,891	2,915	2,915	2,927
Thems Per Industrial Customer	11,914	11,846	11,750	11,743	11,632	11,535	11,475	11,409	11,319	11,260
Residential Customers	26,752	26,938	27,123	27,307	27,489	27,671	27,851	28,030	28,208	28,384
Commercial Customers	3,338	3,354	3,369	3,383	3,398	3,413	3,428	3,442	3,457	3,471
Industrial Customers	90	90	91	91	92	93	93	94	94	95
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	30,180	30,382	30,582	30,782	30,979	31,176	31,371	31,566	31,759	31,951
South Hermiston										
Total Thems Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Thems	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Thems	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Thems	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cncl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	27,489	27,482	27,485	27,651	27,479	27,482	27,484	27,652	27,480	27,482
Daily Baseload Thems	6	6	6	6	6	6	6	6	6	6
Peak Day Thems	211	211	211	212	211	211	211	211	211	211
Thems Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Thems Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,838	1,839	1,852	1,838	1,838
Thems Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Thems Pct. Growth		1.95%	1.93%	2.43%	1.35%	1.83%	1.79%	2.24%	1.26%	1.70%
Residential Thems	225,165	230,568	236,006	242,716	246,941	252,380	257,819	264,522	268,717	274,156
Commercial Thems	81,334	81,922	82,521	83,537	83,732	84,332	84,932	85,923	86,131	86,730
Industrial Thems	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	306,499	312,490	318,527	326,254	330,674	336,712	342,751	350,445	354,848	360,887
Daily Baseload Thems	128	129	132	135	138	141	142	140	145	149
Peak Day Thems	2,657	2,711	2,765	2,764	2,817	2,922	2,976	3,025	3,079	3,078
Thems Per Residential Customer	637	643	649	659	662	668	675	684	687	693
Thems Per Commercial Customer	2,280	2,257	2,241	2,237	2,214	2,202	2,191	2,188	2,164	2,151
Thems Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	354	359	363	368	373	378	382	387	391	396
Commercial Customers	36	36	37	37	38	38	39	39	40	40
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	389	395	400	406	411	416	421	426	431	436
Stearns (Sunriver)										
Total Thems Pct. Growth		0.99%	0.98%	1.47%	0.47%	0.95%	0.95%	1.44%	0.43%	0.92%
Residential Thems	3,685,892	3,731,941	3,777,902	3,843,879	3,870,018	3,916,044	3,962,079	4,029,174	4,056,353	4,100,416
Commercial Thems	1,083,753	1,085,704	1,087,617	1,094,073	1,091,413	1,093,327	1,095,240	1,101,841	1,099,074	1,100,987
Industrial Thems	42,679	42,535	42,332	42,293	41,923	41,719	41,515	41,475	41,107	40,902
Ind., Inst., & Cncl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	4,812,325	4,860,180	4,907,851	4,980,185	5,003,355	5,051,090	5,098,833	5,172,490	5,194,534	5,242,306
Daily Baseload Thems	5,297	5,337	5,375	5,428	5,465	5,503	5,543	5,605	5,640	5,674
Peak Day Thems	39,599	40,004	40,408	40,942	41,347	41,661	42,065	42,510	42,915	43,414
Thems Per Residential Customer	972	979	985	996	997	1,002	1,008	1,020	1,020	1,026
Thems Per Commercial Customer	4,935	4,940	4,948	4,967	4,954	4,960	4,961	4,990	4,971	4,975
Thems Per Industrial Customer	14,226	14,178	14,111	14,098	13,974	13,906	13,838	13,825	13,702	13,634
Residential Customers	3,790	3,814	3,837	3,860	3,883	3,906	3,929	3,952	3,974	3,997
Commercial Customers	220	220	220	220	220	220	221	221	221	221
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,013	4,037	4,060	4,084	4,107	4,130	4,153	4,176	4,198	4,221
Sumas SPE Loop										
Total Thems Pct. Growth		0.99%	1.02%	1.45%	0.62%	1.02%	1.02%	1.36%	0.68%	1.02%
Residential Thems	30,454,836	30,704,513	30,966,214	31,369,579	31,507,519	31,778,033	32,051,519	32,441,700	32,606,908	32,889,430
Commercial Thems	16,032,602	16,206,461	16,387,293	16,639,132	16,760,096	16,947,019	17,135,997	17,382,594	17,519,868	17,715,090
Industrial Thems	1,874,133	1,927,534	1,982,119	2,044,075	2,093,687	2,150,112	2,207,157	2,270,056	2,322,983	2,381,912
Ind., Inst., & Cncl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	48,361,571	48,838,507	49,335,626	50,052,786	50,361,302	50,875,164	51,394,673	52,094,350	52,449,759	52,986,432
Daily Baseload Thems	27,518	27,801	28,084	28,458	28,698	28,997	29,296	29,595	29,894	30,193
Peak Day Thems	452,596	457,358	462,169	450,435	455,190	475,969	480,992	485,087	490,219	478,773
Thems Per Residential Customer	663	664	665	669	668	669	671	675	674	676
Thems Per Commercial Customer	2,930	2,933	2,937	2,954	2,948	2,954	2,960	2,977	2,974	2,982
Thems Per Industrial Customer	23,281	23,471	23,676	23,980	24,127	24,354	24,577	24,884	25,060	25,310
Residential Customers	45,945	46,257	46,566	46,875	47,181	47,485	47,788	48,089	48,389	48,687
Commercial Customers	5,472	5,526	5,579	5,632	5,685	5,737	5,788	5,840	5,891	5,941
Industrial Customers	81	82	84	85	87	88	90	91	93	94
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	51,498	51,865	52,229	52,592	52,952	53,310	53,666	54,020	54,372	54,722

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sunnyside										
Total Therms Pct. Growth		1.52%	1.50%	1.93%	0.97%	1.37%	1.33%	1.70%	0.82%	1.19%
Residential Therms	1,027,287	1,043,124	1,058,997	1,080,293	1,090,347	1,105,539	1,120,430	1,140,232	1,149,120	1,162,964
Commercial Therms	1,664,281	1,691,029	1,717,836	1,752,479	1,770,813	1,796,469	1,821,618	1,853,846	1,870,101	1,893,483
Industrial Therms	622,992	630,747	638,556	648,604	654,039	661,513	668,840	678,034	682,974	689,796
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,314,561	3,364,900	3,415,389	3,481,376	3,515,199	3,563,521	3,610,888	3,672,211	3,702,195	3,746,234
Daily BaseLoad Therms	2,482	2,503	2,540	2,613	2,643	2,678	2,707	2,729	2,781	2,825
Peak Day Therms	22,481	22,820	23,156	22,956	23,275	24,175	24,488	24,835	25,133	24,808
Therms Per Residential Customer	520	524	528	535	536	539	543	548	549	552
Therms Per Commercial Customer	3,101	3,126	3,149	3,189	3,198	3,220	3,240	3,273	3,279	3,297
Therms Per Industrial Customer	36,647	37,012	36,491	37,065	37,376	37,803	37,612	37,707	37,981	38,360
Residential Customers	1,976	1,991	2,006	2,021	2,036	2,050	2,065	2,080	2,094	2,108
Commercial Customers	537	541	546	550	554	558	562	566	570	574
Industrial Customers	17	17	17	17	17	17	18	18	18	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,529	2,549	2,549	2,588	2,607	2,626	2,645	2,664	2,682	2,701
Umatilla										
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.81%	1.21%	1.19%	1.61%	0.74%	1.15%
Residential Therms	410,560	423,478	436,382	451,604	462,243	475,146	488,050	503,581	513,925	526,829
Commercial Therms	462,101	470,911	479,707	490,875	497,329	506,125	514,920	526,285	532,557	541,353
Industrial Therms	935,678	936,945	938,197	942,538	940,683	941,935	943,185	947,596	945,685	946,940
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,808,340	1,831,334	1,854,286	1,884,999	1,900,255	1,923,206	1,946,155	1,977,462	1,992,168	2,015,121
Daily BaseLoad Therms	2,213	2,233	2,251	2,260	2,278	2,297	2,317	2,339	2,346	2,363
Peak Day Therms	10,454	10,618	10,781	11,008	11,172	11,288	11,451	11,632	11,795	12,009
Therms Per Residential Customer	439	444	450	458	461	467	472	480	483	488
Therms Per Commercial Customer	3,211	3,242	3,272	3,315	3,327	3,355	3,385	3,431	3,441	3,468
Therms Per Industrial Customer	133,668	133,849	134,028	134,468	134,383	134,562	134,741	135,371	135,098	135,277
Residential Customers	936	953	969	986	1,002	1,018	1,034	1,049	1,064	1,079
Commercial Customers	144	145	147	148	149	151	152	153	155	156
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,087	1,105	1,123	1,141	1,159	1,176	1,193	1,210	1,226	1,243
Walla Walla										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	6,650,238	6,748,586	6,837,885	6,959,544	7,015,378	7,104,680	7,190,522	7,304,694	7,355,195	7,435,071
Commercial Therms	6,060,912	6,120,532	6,174,008	6,254,773	6,280,537	6,333,936	6,384,910	6,459,309	6,482,063	6,528,842
Industrial Therms	193,806	200,287	206,306	213,172	218,280	224,315	230,184	236,763	241,582	247,170
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	12,904,956	13,069,404	13,218,200	13,427,490	13,514,195	13,662,931	13,805,616	14,000,767	14,078,840	14,211,882
Daily BaseLoad Therms	10,603	10,669	10,779	10,981	11,103	11,226	11,271	11,306	11,459	11,610
Peak Day Therms	148,073	150,073	151,862	151,350	153,089	157,146	158,862	160,477	162,112	161,221
Therms Per Residential Customer	563	567	570	576	576	579	586	586	588	588
Therms Per Commercial Customer	4,563	4,573	4,580	4,607	4,594	4,601	4,608	4,631	4,637	4,621
Therms Per Industrial Customer	10,200	10,495	10,581	10,865	10,923	10,964	11,230	11,316	11,484	11,563
Residential Customers	11,804	11,902	11,997	12,092	12,186	12,279	12,371	12,462	12,552	12,642
Commercial Customers	1,328	1,338	1,348	1,358	1,367	1,377	1,386	1,395	1,404	1,413
Industrial Customers	19	19	19	20	20	20	20	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,259	13,364	13,469	13,573	13,676	13,777	13,878	13,977	14,076
Wenatchee										
Total Therms Pct. Growth		0.77%	0.89%	1.40%	0.38%	0.84%	0.84%	1.28%	0.44%	0.85%
Residential Therms	548,325	572,889	577,427	585,585	587,320	592,061	596,802	604,277	606,305	611,046
Commercial Therms	3,486,570	3,505,168	3,528,957	3,571,119	3,577,423	3,600,356	3,623,584	3,662,974	3,672,162	3,696,640
Industrial Therms	343,348	353,991	364,731	377,195	386,369	397,116	407,862	420,162	429,391	440,137
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,398,253	4,432,048	4,471,315	4,533,900	4,551,112	4,589,533	4,628,247	4,687,412	4,707,858	4,747,842
Daily BaseLoad Therms	3,964	3,953	3,993	4,108	4,148	4,187	4,179	4,150	4,240	4,331
Peak Day Therms	30,727	30,946	31,192	29,993	30,224	31,987	32,229	32,544	32,794	31,457
Therms Per Residential Customer	413	414	414	417	416	417	418	420	419	420
Therms Per Commercial Customer	5,036	5,039	5,051	5,089	5,076	5,086	5,097	5,130	5,122	5,134
Therms Per Industrial Customer	23,816	24,067	24,798	25,088	25,429	26,136	26,164	26,821	27,015	27,304
Residential Customers	1,376	1,385	1,394	1,403	1,412	1,420	1,429	1,438	1,446	1,455
Commercial Customers	692	696	699	702	705	708	711	714	717	720
Industrial Customers	14	15	15	15	15	15	16	16	16	16
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,083	2,095	2,107	2,120	2,132	2,143	2,156	2,167	2,179	2,191
Woodland										
Total Therms Pct. Growth		3.32%	3.29%	3.73%	2.64%	3.00%	2.91%	3.12%	2.47%	2.68%
Residential Therms	428,113	445,867	463,916	484,578	500,450	518,537	536,628	556,545	572,856	590,963
Commercial Therms	751,524	767,402	783,998	805,309	818,091	834,734	851,381	870,612	884,739	901,404
Industrial Therms	655,595	682,841	710,574	741,742	766,759	794,534	822,308	852,062	877,923	905,698
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	1,835,232	1,896,111	1,958,488	2,031,630	2,085,299	2,147,804	2,210,317	2,279,219	2,335,518	2,398,065
Daily BaseLoad Therms	2,156	2,216	1,928	1,913	2,641	2,524	2,610	2,276	2,779	2,282
Peak Day Therms	12,857	13,289	13,722	12,468	12,850	15,019	15,452	15,884	16,317	14,765
Therms Per Residential Customer	559	572	584	599	608	620	631	644	653	664
Therms Per Commercial Customer	3,301	3,326	3,352	3,397	3,409	3,434	3,460	3,498	3,511	3,538
Therms Per Industrial Customer	36,762	38,024	38,590	39,418	40,492	41,023	41,631	42,892	43,295	43,870
Residential Customers	765	780	795	809	823	837	850	864	877	890
Commercial Customers	228	231	234	237	240	243	246	249	252	255
Industrial Customers	18	18	18	19	19	19	20	20	20	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,011	1,029	1,047	1,065	1,082	1,099	1,116	1,132	1,149	1,165

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Yakima Chief Ranch										
Total Therms Pct. Growth		-0.03%	-0.02%	0.11%	-0.05%	-0.04%	-0.03%	0.13%	-0.05%	-0.04%
Residential Therms	319,284	319,193	319,127	319,474	319,308	319,180	319,070	319,489	319,327	319,194
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	319,284	319,193	319,127	319,474	319,308	319,180	319,070	319,489	319,327	319,194
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	159,642	159,596	159,564	159,737	159,654	159,590	159,535	159,745	159,664	159,597
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Yakima Loop										
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	12,318,093	12,509,337	12,702,382	12,964,674	13,085,446	13,270,228	13,451,354	13,692,405	13,800,642	13,969,040
Commercial Therms	12,520,629	12,741,709	12,964,454	13,254,489	13,406,220	13,619,431	13,828,426	14,093,961	14,231,324	14,425,634
Industrial Therms	3,051,905	3,154,040	3,255,987	3,372,510	3,457,747	3,555,339	3,651,000	3,751,310	3,835,425	3,924,265
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,890,626	28,405,086	28,922,823	29,591,674	29,949,413	30,444,998	30,930,780	31,543,676	31,867,390	32,319,039
Daily Baseload Therms	18,906	19,033	19,417	20,307	20,430	20,993	21,151	21,167	21,812	22,458
Peak Day Therms	244,094	248,492	252,852	248,598	252,703	265,743	269,827	273,970	277,862	272,046
Therms Per Residential Customer	625	631	636	645	646	651	656	663	664	668
Therms Per Commercial Customer	3,510	3,544	3,578	3,631	3,645	3,706	3,706	3,750	3,760	3,785
Therms Per Industrial Customer	34,259	34,883	35,479	36,206	36,542	37,082	37,592	38,204	38,539	38,965
Residential Customers	19,696	19,835	19,973	20,111	20,247	20,383	20,517	20,651	20,784	20,916
Commercial Customers	3,567	3,595	3,623	3,651	3,678	3,705	3,732	3,759	3,785	3,811
Industrial Customers	89	90	92	93	95	96	97	98	100	101
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	23,352	23,521	23,688	23,855	24,020	24,184	24,346	24,508	24,669	24,829
Yakima Training Center										
Total Therms Pct. Growth		0.62%	0.62%	1.22%	0.00%	0.58%	0.57%	1.13%	-0.05%	0.52%
Residential Therms	17,373	17,714	18,054	18,494	18,727	19,053	19,372	19,785	19,988	20,286
Commercial Therms	333,068	334,897	336,734	340,610	340,329	342,133	343,855	347,558	347,171	348,780
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	350,441	352,611	354,788	359,104	359,106	361,186	363,227	367,343	367,159	369,066
Daily Baseload Therms	42	43	44	42	42	43	45	44	45	45
Peak Day Therms	3,343	3,364	3,385	3,377	3,397	3,445	3,464	3,462	3,501	3,490
Therms Per Residential Customer	750	751	760	768	769	776	775	789	784	794
Therms Per Commercial Customer	3,067	3,072	3,085	3,111	3,100	3,109	3,118	3,145	3,134	3,142
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	23	24	24	24	24	25	25	25	25	26
Commercial Customers	109	109	109	109	110	110	110	111	111	111
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	132	133	133	134	134	135	135	136	136	137
Zillah (Toppenish)										
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.48%	0.72%
Residential Therms	997,123	1,003,407	1,010,423	1,023,577	1,025,546	1,032,267	1,039,152	1,048,781	1,051,978	1,058,229
Commercial Therms	1,846,433	1,869,074	1,893,510	1,929,125	1,943,636	1,967,046	1,989,992	2,017,854	2,034,229	2,055,544
Industrial Therms	743,937	743,178	743,149	746,940	743,908	743,908	743,941	745,413	743,908	743,908
Ind., Inst., & Cmcl. Interrup. Therms	63,344	63,681	64,090	64,605	64,815	65,169	65,564	65,933	66,297	66,625
Total Core Therms	3,650,841	3,679,340	3,711,171	3,764,247	3,777,904	3,808,389	3,838,649	3,877,981	3,896,413	3,924,326
Daily Baseload Therms	2,712	2,754	2,792	2,839	2,839	2,874	2,874	2,912	2,912	2,950
Peak Day Therms	32,347	32,635	32,921	32,937	32,937	33,804	34,071	34,380	34,634	34,781
Therms Per Residential Customer	519	520	522	526	525	527	528	531	531	530
Therms Per Commercial Customer	3,555	3,574	3,596	3,639	3,643	3,662	3,681	3,709	3,716	3,732
Therms Per Industrial Customer	30,997	30,966	30,333	30,487	30,364	30,314	30,314	29,830	29,770	29,770
Residential Customers	1,920	1,928	1,936	1,944	1,952	1,960	1,968	1,976	1,984	1,992
Commercial Customers	519	523	527	530	534	537	541	544	547	551
Industrial Customers	24	24	25	25	25	25	25	25	25	25
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,464	2,476	2,488	2,500	2,511	2,523	2,534	2,546	2,557	2,568
Zone 10										
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,149,219	3,178,476	3,208,875	3,255,100	3,271,037	3,300,166	3,329,077	3,368,516	3,384,865	3,411,616
Commercial Therms	6,093,793	6,319,083	6,546,168	6,800,262	6,997,895	7,215,876	7,429,592	7,654,336	7,841,939	8,040,932
Industrial Therms	1,636,566	1,643,397	1,651,175	1,666,170	1,667,576	1,675,049	1,682,409	1,693,756	1,696,509	1,703,324
Ind., Inst., & Cmcl. Interrup. Therms	63,344	63,681	64,090	64,605	64,815	65,169	65,564	65,933	66,297	66,625
Total Core Therms	10,942,922	11,204,636	11,470,308	11,786,137	12,001,323	12,256,259	12,506,642	12,762,541	12,989,611	13,222,497
Daily Baseload Therms	7,760	7,954	7,110	7,409	7,409	8,518	8,758	8,973	8,297	9,656
Peak Day Therms	73,041	74,222	75,389	69,275	70,238	78,965	80,058	81,300	82,338	74,911
Therms Per Residential Customer	587	589	592	597	597	599	601	605	605	606
Therms Per Commercial Customer	4,388	4,516	4,643	4,790	4,895	5,013	5,125	5,244	5,338	5,438
Therms Per Industrial Customer	28,217	28,314	27,987	28,241	28,265	28,391	28,360	28,243	28,289	28,403
Residential Customers	5,361	5,392	5,422	5,452	5,482	5,511	5,541	5,570	5,599	5,628
Commercial Customers	1,389	1,399	1,410	1,420	1,430	1,439	1,450	1,460	1,469	1,479
Industrial Customers	58	58	59	59	59	59	59	60	60	60
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,809	6,850	6,892	6,931	6,971	7,011	7,051	7,090	7,129	7,167

**Appendix B
Demand Forecast
Low Scenario**

Zone 11	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.67%	1.66%	2.14%	1.07%	1.52%	1.47%	1.85%	0.93%	1.32%
Residential Therms	13,539,855	13,747,245	13,956,671	14,241,824	14,372,438	14,573,108	14,749,897	15,032,144	15,149,719	15,333,013
Commercial Therms	17,522,209	17,802,985	18,089,113	18,467,921	18,655,735	18,929,882	19,198,998	19,546,831	19,721,551	19,974,440
Industrial Therms	4,126,899	4,225,234	4,323,656	4,439,802	4,519,006	4,613,415	4,706,081	4,812,595	4,885,486	4,972,278
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	35,188,963	35,775,464	36,349,441	37,149,547	37,547,179	38,116,405	38,674,977	39,391,570	39,756,755	40,279,931
Daily BaseLoad Therms	24,448	24,614	25,114	26,225	26,621	26,891	27,063	27,113	27,995	28,755
Peak Day Therms	292,593	297,501	302,388	296,807	301,401	316,995	321,578	326,404	330,788	323,325
Therms Per Residential Customer	609	614	618	627	628	632	637	644	644	648
Therms Per Commercial Customer	3,886	3,919	3,953	4,007	4,019	4,050	4,079	4,125	4,134	4,160
Therms Per Industrial Customer	33,873	34,201	34,618	35,058	35,218	35,594	35,845	36,273	36,405	36,652
Residential Customers	22,241	22,404	22,566	22,727	22,887	23,045	23,202	23,358	23,513	23,667
Commercial Customers	4,509	4,543	4,576	4,609	4,642	4,674	4,706	4,738	4,770	4,802
Industrial Customers	122	124	125	127	128	130	131	133	134	136
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	26,872	27,070	27,267	27,463	27,657	27,849	28,040	28,230	28,418	28,604

Zone 20	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	16,577,727	16,968,029	17,334,467	17,796,122	18,073,534	18,448,607	18,818,039	19,274,497	19,544,732	19,906,328
Commercial Therms	18,678,161	19,014,067	19,330,126	19,741,074	19,969,892	20,292,868	20,611,745	21,019,430	21,246,625	21,564,261
Industrial Therms	929,921	938,507	946,821	959,364	964,675	973,728	982,934	995,491	1,001,351	1,010,767
Ind., Inst., & Cmcl. Interrup. Therms	275,862	275,829	275,829	277,014	275,862	275,862	276,947	276,947	275,862	275,862
Total Core Therms	36,461,671	37,196,432	37,887,243	38,773,574	39,283,964	39,991,065	40,689,581	41,566,866	42,068,571	42,757,219
Daily BaseLoad Therms	31,792	32,305	32,348	32,888	34,094	34,644	35,169	35,202	36,068	36,085
Peak Day Therms	293,683	299,185	304,330	303,644	308,744	320,645	325,844	331,738	336,911	334,856
Therms Per Residential Customer	524	528	531	538	538	542	545	551	551	555
Therms Per Commercial Customer	4,137	4,164	4,188	4,233	4,238	4,263	4,288	4,331	4,337	4,362
Therms Per Industrial Customer	22,681	22,890	22,815	23,117	23,245	23,463	23,685	24,000	23,854	24,078
Residential Customers	31,613	32,122	32,619	33,109	33,591	34,066	34,533	34,994	35,447	35,894
Commercial Customers	4,515	4,566	4,616	4,664	4,712	4,760	4,807	4,853	4,899	4,944
Industrial Customers	41	41	42	42	42	42	42	42	42	42
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	36,171	36,731	37,278	37,816	38,346	38,869	39,383	39,891	40,390	40,882

Zone 24	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,256,094	4,297,971	4,340,442	4,406,443	4,426,201	4,468,382	4,510,379	4,574,301	4,594,284	4,635,920
Commercial Therms	3,990,310	4,037,129	4,084,588	4,153,503	4,180,484	4,227,988	4,275,515	4,343,254	4,370,822	4,418,389
Industrial Therms	590,847	604,221	617,641	633,178	644,891	659,033	673,589	689,977	703,564	718,954
Ind., Inst., & Cmcl. Interrup. Therms	868,088	867,967	867,968	872,356	868,088	868,090	868,091	872,111	868,088	868,090
Total Core Therms	9,705,339	9,807,289	9,910,640	10,065,480	10,119,665	10,223,492	10,327,575	10,479,643	10,536,759	10,641,353
Daily BaseLoad Therms	5,664	5,726	5,799	5,883	5,923	5,977	6,037	6,093	6,189	6,269
Peak Day Therms	79,865	80,668	81,471	80,647	81,430	84,024	84,826	85,779	86,582	85,496
Therms Per Residential Customer	577	580	582	588	588	590	593	599	598	601
Therms Per Commercial Customer	2,496	2,711	2,726	2,757	2,759	2,775	2,790	2,818	2,821	2,837
Therms Per Industrial Customer	22,226	22,448	22,568	22,866	23,025	23,237	23,399	23,749	23,937	24,186
Residential Customers	7,374	7,413	7,452	7,491	7,529	7,567	7,605	7,643	7,680	7,717
Commercial Customers	1,480	1,489	1,498	1,507	1,515	1,524	1,533	1,541	1,549	1,558
Industrial Customers	27	27	27	28	28	28	29	29	29	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	8,882	8,930	8,979	9,026	9,074	9,121	9,168	9,214	9,259	9,305

Zone 26	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,540,294	1,607,647	1,655,594	1,711,078	1,752,412	1,800,397	1,848,381	1,902,399	1,944,507	1,992,485
Commercial Therms	5,468,773	5,538,143	5,609,561	5,703,673	5,754,991	5,826,486	5,897,987	5,986,499	6,041,279	6,112,798
Industrial Therms	844,041	867,686	891,875	920,078	940,998	965,241	989,487	1,016,109	1,038,028	1,062,290
Ind., Inst., & Cmcl. Interrup. Therms	84,315	84,277	84,271	84,590	84,260	84,287	84,319	84,553	84,291	84,274
Total Core Therms	7,957,423	8,097,753	8,241,301	8,419,358	8,532,661	8,676,411	8,820,174	8,989,561	9,108,104	9,251,847
Daily BaseLoad Therms	7,326	7,453	7,579	7,602	7,622	7,649	7,682	7,719	7,761	7,804
Peak Day Therms	70,235	71,435	72,634	70,443	71,570	76,339	77,537	78,847	80,046	77,310
Therms Per Residential Customer	498	505	512	521	526	533	540	549	554	560
Therms Per Commercial Customer	4,352	4,369	4,388	4,424	4,427	4,446	4,465	4,497	4,503	4,521
Therms Per Industrial Customer	25,707	26,327	26,692	27,207	27,729	28,085	28,473	29,144	29,424	29,802
Residential Customers	3,134	3,184	3,233	3,282	3,329	3,376	3,422	3,468	3,513	3,557
Commercial Customers	1,257	1,268	1,278	1,289	1,300	1,310	1,321	1,331	1,342	1,352
Industrial Customers	33	33	33	34	34	34	35	35	35	36
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	4,425	4,485	4,546	4,606	4,664	4,722	4,779	4,835	4,891	4,946

Zone 30-S	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	24,562,898	24,935,598	25,310,968	25,802,176	26,066,288	26,441,763	26,817,240	27,206,131	27,569,703	27,945,192
Commercial Therms	14,904,161	15,113,394	15,323,577	15,599,884	15,747,149	15,957,330	16,167,572	16,440,557	16,588,922	16,799,242
Industrial Therms	625,377	628,796	632,314	638,518	639,473	642,996	646,520	652,488	653,383	657,110
Ind., Inst., & Cmcl. Interrup. Therms	1,590,071	1,592,329	1,592,392	1,596,639	1,592,517	1,592,516	1,592,516	1,596,393	1,592,517	1,592,516
Total Core Therms	41,682,507	42,270,117	42,859,251	43,639,218	44,045,427	44,634,606	45,223,848	45,997,570	46,404,725	46,994,040
Daily BaseLoad Therms	36,741	37,272	36,793	37,359	38,709	39,205	39,735	39,292	40,487	40,302
Peak Day Therms	319,549	324,116	328,659	328,258	332,741	342,573	347,114	351,948	356,491	355,428
Therms Per Residential Customer	649	654	658	666	667	672	676	684	685	690
Therms Per Commercial Customer	3,826	3,851	3,876	3,917	3,926	3,951	3,975	4,015	4,024	4,048
Therms Per Industrial Customer	22,335	22,457	22,583	22,804	22,838	22,964	23,090	23,303	23,342	23,468
Residential Customers	37,851	38,156	38,459	38,761	39,059	39,355	39,649	39,941	40,231	40,518
Commercial Customers	3,896	3,925	3,954	3,982	4,011	4,039	4,067	4,095	4,123	4,150
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	41,777	42,111	42,443	42,773	43,100	43,424	43,746	44,066	44,383	44,698

**Appendix B
Demand Forecast
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Zone 30-W										
Total Therms Pct. Growth		0.95%	0.97%	1.40%	0.55%	0.97%	0.96%	1.33%	0.59%	0.96%
Residential Therms	55,556,744	54,026,514	54,511,494	57,254,098	57,504,389	58,004,188	58,505,709	59,233,639	59,520,034	60,033,596
Commercial Therms	30,917,417	31,249,658	31,588,037	32,064,281	32,281,507	32,629,573	32,980,020	33,450,519	33,688,244	34,046,732
Industrial Therms	3,810,125	3,869,420	3,929,801	4,004,673	4,053,592	4,116,144	4,179,277	4,254,532	4,307,235	4,372,208
Ind., Inst., & Cmcl. Interrup. Therms	79,287	79,291	79,291	79,565	79,297	79,297	79,297	79,553	79,297	79,297
Total Core Therms	90,363,573	91,224,883	92,108,623	93,402,616	93,920,785	94,829,201	95,744,302	97,018,243	97,594,910	98,531,833
Daily BaseLoad Therms	66,946	67,580	51,826	51,875	69,483	70,064	70,723	54,629	60,923	54,601
Peak Day Therms	726,836	734,054	741,302	726,987	734,165	743,036	777,680	777,680	785,321	770,530
Therms Per Residential Customer	644	645	646	651	649	651	652	656	656	657
Therms Per Commercial Customer	2,949	2,957	2,966	2,988	2,986	2,996	3,006	3,027	3,027	3,038
Therms Per Industrial Customer	18,746	18,841	18,965	19,151	19,193	19,281	19,395	19,585	19,654	19,778
Residential Customers	86,288	86,862	87,432	88,000	88,563	89,123	89,679	90,234	90,785	91,332
Commercial Customers	10,484	10,568	10,649	10,731	10,812	10,892	10,972	11,051	11,130	11,208
Industrial Customers	203	205	207	209	211	213	215	217	219	221
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	96,977	97,636	98,290	98,941	99,587	100,229	100,868	101,504	102,135	102,762
Zone GTN										
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	36,925,632	38,060,802	39,195,810	40,550,500	41,477,924	42,615,293	43,752,894	45,115,697	46,032,482	47,170,813
Commercial Therms	20,909,782	21,237,425	21,555,598	21,990,892	22,198,815	22,518,351	22,838,084	23,269,646	23,479,698	23,999,943
Industrial Therms	2,899,072	2,981,782	3,065,076	3,164,103	3,233,041	3,316,677	3,400,336	3,498,494	3,561,898	3,651,646
Ind., Inst., & Cmcl. Interrup. Therms	278,365	278,292	278,292	279,328	278,366	278,365	279,681	278,366	278,366	278,365
Total Core Therms	61,012,851	62,558,301	64,094,775	65,988,324	67,188,146	68,728,686	70,249,680	72,163,518	73,358,413	74,900,767
Daily BaseLoad Therms	49,720	51,026	52,215	53,499	54,743	55,663	57,016	58,384	59,726	60,789
Peak Day Therms	583,744	598,590	613,410	618,238	632,842	658,121	672,981	688,000	702,891	706,117
Therms Per Residential Customer	729	740	751	766	773	783	793	808	814	824
Therms Per Commercial Customer	2,972	2,994	3,015	3,052	3,058	3,079	3,099	3,135	3,140	3,161
Therms Per Industrial Customer	26,040	26,378	26,761	27,280	27,521	27,879	28,229	28,731	28,996	29,352
Residential Customers	50,620	51,404	52,175	52,935	53,684	54,422	55,150	55,869	56,578	57,279
Commercial Customers	7,036	7,092	7,149	7,205	7,259	7,314	7,369	7,423	7,477	7,530
Industrial Customers	111	113	115	116	117	119	120	122	123	124
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	57,768	58,610	59,439	60,257	61,061	61,856	62,640	63,415	64,179	64,934
Zone ME-OR										
Total Therms Pct. Growth		1.11%	1.12%	1.61%	0.62%	1.08%	1.07%	1.50%	0.62%	1.04%
Residential Therms	5,849,793	5,936,207	6,023,912	6,144,543	6,201,171	6,288,896	6,376,691	6,494,868	6,552,748	6,640,415
Commercial Therms	6,430,252	6,503,685	6,578,466	6,685,868	6,729,804	6,804,589	6,879,419	6,983,838	7,029,476	7,104,219
Industrial Therms	1,308,214	1,314,028	1,319,923	1,330,969	1,331,758	1,337,637	1,343,527	1,354,398	1,355,375	1,361,235
Ind., Inst., & Cmcl. Interrup. Therms	1,311,050	1,310,734	1,310,734	1,316,381	1,311,050	1,311,051	1,311,052	1,315,747	1,311,050	1,311,051
Total Core Therms	14,899,309	15,064,654	15,233,035	15,477,761	15,573,784	15,742,173	15,910,689	16,148,851	16,248,650	16,416,921
Daily BaseLoad Therms	13,548	13,690	13,780	13,914	14,045	14,187	14,337	14,433	14,639	14,691
Peak Day Therms	129,251	130,682	132,111	130,499	131,888	136,637	138,063	139,741	141,168	139,609
Therms Per Residential Customer	513	516	519	525	526	529	532	537	538	541
Therms Per Commercial Customer	3,390	3,407	3,424	3,457	3,458	3,475	3,492	3,524	3,528	3,543
Therms Per Industrial Customer	49,837	49,353	49,392	49,806	49,835	49,431	49,601	50,002	50,038	49,943
Residential Customers	11,398	11,499	11,600	11,699	11,798	11,895	11,991	12,087	12,182	12,276
Commercial Customers	1,897	1,909	1,921	1,934	1,946	1,958	1,970	1,982	1,994	2,005
Industrial Customers	26	27	27	27	27	27	27	27	27	27
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	13,324	13,437	13,550	13,662	13,772	13,882	13,990	14,098	14,204	14,311
Zone ME-WA										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	6,650,232	6,740,586	6,837,885	6,959,544	7,015,378	7,104,680	7,190,522	7,304,604	7,355,195	7,435,017
Commercial Therms	6,060,918	6,120,532	6,174,008	6,254,773	6,280,537	6,333,936	6,384,910	6,459,309	6,482,063	6,528,842
Industrial Therms	193,806	200,287	206,306	213,172	218,280	224,315	230,184	236,763	241,582	247,170
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	12,904,956	13,069,404	13,218,200	13,427,490	13,514,195	13,662,931	13,805,616	14,000,767	14,078,840	14,211,082
Daily BaseLoad Therms	10,603	10,669	10,779	10,981	11,103	11,226	11,271	11,306	11,459	11,610
Peak Day Therms	148,072	150,073	151,862	151,350	153,089	157,146	158,862	160,477	162,112	161,321
Therms Per Residential Customer	563	567	570	576	576	579	581	586	586	588
Therms Per Commercial Customer	4,563	4,573	4,580	4,607	4,594	4,601	4,608	4,631	4,617	4,621
Therms Per Industrial Customer	10,200	10,495	10,581	10,865	10,923	10,964	11,230	11,316	11,484	11,563
Residential Customers	11,804	11,902	11,997	12,092	12,186	12,279	12,371	12,462	12,552	12,642
Commercial Customers	1,328	1,338	1,348	1,358	1,367	1,377	1,386	1,395	1,404	1,413
Industrial Customers	19	19	19	20	20	20	20	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	13,151	13,259	13,364	13,469	13,573	13,676	13,777	13,878	13,977	14,076
Oregon										
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.31%	1.81%
Residential Therms	47,031,519	48,294,980	49,560,163	51,101,487	52,105,297	53,372,571	54,639,964	56,184,866	57,179,515	58,447,148
Commercial Therms	31,330,343	31,778,239	32,218,652	32,830,263	33,109,104	33,550,928	33,993,019	34,596,738	34,879,996	35,322,551
Industrial Therms	4,786,133	4,900,032	5,002,640	5,128,250	5,209,690	5,313,347	5,417,453	5,542,869	5,626,838	5,731,835
Ind., Inst., & Cmcl. Interrup. Therms	2,637,504	2,456,993	2,456,994	2,468,564	2,457,504	2,457,506	2,457,508	2,457,539	2,457,504	2,457,506
Total Core Therms	85,617,499	87,430,244	89,238,450	91,528,546	92,881,595	94,694,352	96,507,943	98,792,012	100,143,852	101,959,040
Daily BaseLoad Therms	68,932	70,441	71,793	73,296	74,441	75,827	77,389	78,909	80,554	81,749
Peak Day Therms	792,860	809,940	826,992	829,384	846,160	878,783	895,870	913,540	930,641	930,883
Therms Per Residential Customer	687	696	709	714	722	731	743	748	756	764
Therms Per Commercial Customer	3,009	3,029	3,049	3,084	3,088	3,108	3,127	3,161	3,165	3,184
Therms Per Industrial Customer	29,227	29,415	29,647	30,095	30,252	30,468	30,723	31,156	31,342	31,576
Residential Customers	69,393	70,317	71,226	72,125	73,010	73,884	74,746	75,599	76,440	77,272
Commercial Customers	10,413	10,491	10,568	10,645	10,721	10,796	10,871	10,946	11,019	11,093
Industrial Customers	164	167	169	170	172	174	176	178	180	182
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	79,974	80,978	81,967	82,945	83,907	84,858	85,798	86,727	87,643	88,550

**Appendix B
Demand Forecast
Low Scenario**

Washington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.42%	1.39%	1.84%	0.91%	1.33%	1.31%	1.68%	0.87%	1.24%
Residential Therms	121,596,975	123,212,094	124,815,955	127,019,882	128,057,477	129,672,909	131,278,865	133,422,020	134,468,756	136,057,301
Commercial Therms	99,645,626	101,157,862	102,660,591	104,631,869	105,687,706	107,185,951	108,670,824	110,557,482	111,610,722	113,067,446
Industrial Therms	12,166,734	12,373,327	12,581,949	12,841,776	13,003,600	13,210,888	13,416,893	13,662,235	13,823,774	14,025,147
Ind., Inst., & Cmcl. Interup. Therms	2,092,880	2,095,406	2,095,872	2,104,413	2,096,751	2,097,131	2,097,599	2,105,380	2,098,264	2,098,575
Total Core Therms	235,502,015	238,838,689	242,154,367	246,597,940	248,845,534	252,166,879	255,464,140	259,747,117	262,001,515	265,248,469
Daily BaseLoad Therms	185,615	187,847	169,649	172,759	197,677	198,870	201,056	182,118	194,207	186,792
Peak Day Therms	1,924,030	1,950,585	1,976,565	1,946,765	1,971,947	2,055,700	2,081,562	2,108,394	2,134,007	2,097,680
Therms Per Residential Customer	613	616	619	624	624	627	630	635	635	638
Therms Per Commercial Customer	3,640	3,664	3,689	3,730	3,738	3,762	3,785	3,822	3,831	3,853
Therms Per Industrial Customer	24,144	24,357	24,501	24,806	24,914	25,096	25,274	25,529	25,618	25,796
Residential Customers	198,293	200,021	201,728	203,422	205,096	206,755	208,397	210,027	211,640	213,237
Commercial Customers	27,378	27,607	27,831	28,053	28,273	28,492	28,709	28,924	29,136	29,347
Industrial Customers	504	508	514	518	522	526	531	535	540	544
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	226,182	228,143	230,079	231,999	233,898	235,780	237,644	239,493	241,323	243,135
System	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.60%	1.57%	2.03%	1.06%	1.50%	1.47%	1.87%	1.01%	1.40%
Residential Therms	168,628,493	171,507,074	174,376,118	178,121,369	180,162,774	183,045,481	185,918,829	189,606,886	191,648,270	194,504,449
Commercial Therms	130,975,769	132,936,101	134,879,243	137,462,131	138,796,810	140,736,878	142,663,843	145,154,220	146,490,718	148,389,997
Industrial Therms	16,964,867	17,273,359	17,584,589	17,970,025	18,213,291	18,524,235	18,834,346	19,205,104	19,450,611	19,756,962
Ind., Inst., & Cmcl. Interup. Therms	4,530,384	4,552,399	4,552,867	4,572,979	4,554,255	4,554,637	4,555,066	4,572,919	4,555,768	4,556,081
Total Core Therms	321,119,514	326,268,932	331,392,817	338,126,505	341,727,130	346,981,231	351,972,084	358,530,129	362,145,367	367,207,509
Daily BaseLoad Therms	254,547	258,288	241,442	246,055	272,117	274,698	278,445	261,028	274,761	268,541
Peak Day Therms	2,716,890	2,740,526	2,803,556	2,776,148	2,818,108	2,934,483	2,977,432	3,021,934	3,064,648	3,028,363
Therms Per Residential Customer	1,233	1,239	1,246	1,258	1,260	1,266	1,274	1,286	1,288	1,295
Therms Per Commercial Customer	4,013	4,035	4,054	4,098	4,097	4,118	4,139	4,177	4,179	4,199
Therms Per Industrial Customer	49,031	49,510	50,003	50,787	51,011	51,511	52,012	52,772	53,013	53,515
Residential Customers	267,686	270,338	272,955	275,547	278,107	280,639	283,143	285,626	288,080	290,509
Commercial Customers	37,791	38,097	38,399	38,698	38,994	39,287	39,581	39,870	40,156	40,440
Industrial Customers	668	675	682	688	694	701	707	713	719	725
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	306,156	309,121	312,046	314,944	317,806	320,638	323,442	326,220	328,966	331,685

**Appendix B
Demand Forecast
Low Scenario**

7th Day School	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Therms	9,193	9,258	9,192	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Therms	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,484	27,651	27,480	27,482	27,484	27,651	27,479	27,482	27,485	27,652
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	211	211	212	211	211	211	211
Therms Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Therms Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Therms Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Acme	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Therms	51,297	51,720	51,724	51,944	52,173	52,609	52,626	52,856	53,080	53,530
Commercial Therms	28,792	28,907	28,788	28,988	28,792	28,907	28,792	28,792	28,788	28,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	80,089	80,627	80,512	80,731	80,965	81,516	81,418	81,648	81,868	82,433
Daily BaseLoad Therms	54	55	55	55	55	55	55	55	55	56
Peak Day Therms	730	743	745	747	747	750	740	754	758	761
Therms Per Residential Customer	742	750	744	748	751	757	757	755	759	765
Therms Per Commercial Customer	3,199	3,212	3,199	3,199	3,199	3,212	3,199	3,199	3,199	3,211
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	69	69	69	69	69	69	69	69	70	70
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	78	78	78	78	78	78	78	79	79	79
Arlington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Therms	3,286,130	3,318,418	3,321,598	3,339,456	3,357,918	3,389,817	3,392,847	3,410,216	3,426,736	3,458,686
Commercial Therms	2,315,681	2,360,408	2,385,140	2,419,639	2,454,389	2,498,332	2,521,928	2,555,443	2,588,270	2,632,282
Industrial Therms	477,243	486,187	491,090	497,974	504,914	513,699	518,383	525,071	531,617	540,413
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,079,055	6,165,013	6,197,827	6,257,069	6,317,221	6,401,849	6,433,178	6,490,730	6,546,622	6,631,382
Daily BaseLoad Therms	5,618	5,716	5,822	5,886	5,952	6,008	5,969	6,078	6,185	6,238
Peak Day Therms	46,953	48,851	49,308	49,761	50,209	49,198	51,120	51,559	51,997	52,461
Therms Per Residential Customer	655	659	657	660	660	664	663	664	665	669
Therms Per Commercial Customer	3,318	3,353	3,360	3,380	3,401	3,434	3,440	3,459	3,476	3,509
Therms Per Industrial Customer	17,050	17,369	17,876	18,126	18,379	18,699	18,869	19,487	19,730	20,057
Residential Customers	5,020	5,037	5,053	5,070	5,086	5,103	5,119	5,136	5,152	5,168
Commercial Customers	698	704	710	716	722	727	733	739	745	750
Industrial Customers	28	28	27	27	27	27	27	27	27	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5,746	5,769	5,791	5,813	5,835	5,858	5,880	5,902	5,924	5,945
Athens	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Therms	319,779	324,124	326,036	329,242	332,720	336,890	338,958	342,224	345,194	349,579
Commercial Therms	134,772	136,420	136,964	138,100	139,356	140,942	141,562	142,720	143,750	145,413
Industrial Therms	82,910	88,506	93,395	98,679	104,049	109,654	114,529	119,800	124,980	130,782
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	537,462	549,050	556,396	566,021	576,125	587,486	595,049	604,744	613,924	625,774
Daily BaseLoad Therms	184	197	211	176	216	196	198	212	226	185
Peak Day Therms	3,902	4,463	4,544	4,625	4,707	4,297	4,884	4,965	5,046	5,143
Therms Per Residential Customer	563	568	567	569	572	576	576	578	580	584
Therms Per Commercial Customer	1,902	1,914	1,910	1,917	1,926	1,937	1,934	1,939	1,941	1,956
Therms Per Industrial Customer	38,692	41,304	40,233	41,043	43,277	45,608	44,312	45,365	47,327	49,524
Residential Customers	567	571	575	578	582	585	589	592	596	599
Commercial Customers	71	71	72	72	72	73	73	74	74	74
Industrial Customers	2	2	2	2	2	2	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	640	644	649	653	656	660	664	668	672	676
Baker	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Therms	2,340,986	2,368,736	2,372,291	2,387,943	2,403,873	2,431,268	2,434,385	2,449,314	2,463,487	2,490,640
Commercial Therms	1,655,302	1,677,721	1,683,424	1,697,640	1,712,263	1,734,960	1,740,786	1,755,009	1,768,810	1,791,778
Industrial Therms	245,990	259,150	270,881	283,760	297,288	311,995	325,037	339,446	354,156	370,141
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,242,279	4,305,607	4,326,596	4,369,343	4,413,424	4,478,222	4,500,208	4,543,769	4,588,453	4,652,559
Daily BaseLoad Therms	2,343	2,386	2,425	2,463	2,518	2,543	2,583	2,625	2,667	2,730
Peak Day Therms	39,628	40,992	41,338	41,683	42,029	41,333	42,735	43,080	43,424	43,765
Therms Per Residential Customer	662	668	667	669	671	676	675	677	678	684
Therms Per Commercial Customer	3,062	3,091	3,090	3,103	3,119	3,148	3,147	3,161	3,174	3,204
Therms Per Industrial Customer	81,997	86,383	90,294	94,587	99,096	103,998	108,346	113,149	118,052	123,380
Residential Customers	3,534	3,547	3,559	3,572	3,584	3,596	3,608	3,620	3,631	3,643
Commercial Customers	541	543	545	547	549	551	553	555	557	559
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,078	4,092	4,107	4,122	4,136	4,150	4,164	4,178	4,191	4,205

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Bend Loop										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.59%	1.42%	1.90%	1.65%	2.36%
Residential Therms	34,032,369	35,041,085	35,685,025	36,511,810	37,342,915	38,369,392	39,000,795	39,835,583	40,652,165	41,694,729
Commercial Therms	13,991,617	14,259,993	14,383,017	14,579,138	14,776,994	15,049,742	15,170,750	15,367,417	15,562,551	15,839,941
Industrial Therms	947,731	976,867	998,033	1,023,244	1,048,616	1,078,279	1,099,331	1,124,742	1,150,093	1,180,399
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	48,971,718	50,277,945	51,066,074	52,114,192	53,168,525	54,497,413	55,270,876	56,320,743	57,364,810	58,717,068
Daily BaseLoad Therms	39,373	40,298	41,196	42,021	42,894	43,531	44,357	45,265	46,178	47,087
Peak Day Therms	471,330	486,994	497,147	507,300	517,454	521,778	537,905	548,070	558,238	568,549
Therms Per Residential Customer	834	849	854	864	874	888	893	903	912	926
Therms Per Commercial Customer	3,000	3,036	3,041	3,061	3,082	3,118	3,122	3,142	3,161	3,197
Therms Per Industrial Customer	21,887	22,145	22,226	22,399	22,577	22,832	22,920	23,100	23,266	23,558
Residential Customers	40,804	41,295	41,778	42,256	42,729	43,198	43,661	44,119	44,573	45,023
Commercial Customers	4,664	4,697	4,730	4,763	4,795	4,827	4,859	4,891	4,923	4,954
Industrial Customers	43	44	45	46	46	47	48	49	49	50
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	45,512	46,036	46,553	47,065	47,571	48,073	48,569	49,059	49,545	50,028
Bremerton (Shelton)										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	25,520,986	25,977,084	26,204,933	26,547,281	26,891,991	27,354,075	27,578,241	27,920,649	28,260,573	28,728,585
Commercial Therms	13,764,011	14,016,043	14,151,726	14,345,771	14,541,114	14,796,328	14,930,092	15,124,172	15,316,886	15,575,247
Industrial Therms	475,577	483,229	486,766	492,367	498,008	505,755	509,235	514,837	520,398	528,239
Ind., Inst., & Cncl. Interup. Therms	1,592,516	1,598,639	1,592,394	1,592,394	1,592,516	1,598,639	1,592,517	1,592,516	1,592,393	1,598,516
Total Core Therms	41,353,089	42,074,995	42,435,819	42,977,812	43,523,828	44,254,797	44,610,085	45,152,174	45,690,250	46,430,588
Daily BaseLoad Therms	35,944	36,426	36,934	37,404	37,916	38,239	38,707	39,218	39,729	40,219
Peak Day Therms	322,643	330,697	334,941	339,183	343,423	343,996	352,105	356,344	360,582	365,026
Therms Per Residential Customer	693	700	701	706	710	718	719	723	727	735
Therms Per Commercial Customer	4,006	4,051	4,061	4,088	4,115	4,158	4,168	4,194	4,220	4,263
Therms Per Industrial Customer	31,705	32,215	32,451	32,824	33,201	33,717	33,949	34,322	34,693	35,216
Residential Customers	36,846	37,103	37,357	37,610	37,860	38,110	38,358	38,604	38,848	39,092
Commercial Customers	3,436	3,460	3,485	3,510	3,534	3,558	3,582	3,606	3,630	3,653
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	40,299	40,580	40,859	41,136	41,411	41,685	41,957	42,227	42,495	42,762
Brouillette Hop										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Therms	9,193	9,258	9,192	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Therms	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,484	27,651	27,480	27,482	27,484	27,651	27,479	27,482	27,485	27,652
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	211	211	212	211	211	211	211
Therms Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Therms Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Therms Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Burbank Heights Loop										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	7,521,271	7,690,132	7,774,986	7,892,011	8,010,063	8,161,287	8,226,427	8,329,068	8,424,688	8,561,487
Commercial Therms	5,556,791	5,677,418	5,738,243	5,824,119	5,909,915	6,021,213	6,070,967	6,148,502	6,221,756	6,325,552
Industrial Therms	276,998	280,076	280,879	282,853	284,907	288,044	288,894	290,906	292,856	296,052
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	13,355,060	13,647,625	13,794,108	13,999,983	14,204,885	14,470,545	14,586,289	14,768,477	14,939,300	15,183,091
Daily BaseLoad Therms	10,273	10,523	10,659	10,193	10,572	11,136	11,247	11,353	11,452	10,789
Peak Day Therms	82,234	86,988	88,253	89,438	90,592	89,072	93,303	94,328	95,296	96,801
Therms Per Residential Customer	535	540	540	542	544	548	546	547	548	551
Therms Per Commercial Customer	4,186	4,238	4,247	4,275	4,303	4,351	4,354	4,378	4,400	4,444
Therms Per Industrial Customer	21,308	21,544	21,606	21,758	21,916	22,157	22,223	22,377	22,527	22,773
Residential Customers	14,053	14,228	14,401	14,570	14,737	14,902	15,064	15,223	15,380	15,536
Commercial Customers	1,328	1,340	1,351	1,362	1,373	1,384	1,394	1,404	1,414	1,424
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	15,393	15,581	15,765	15,946	16,123	16,299	16,471	16,641	16,807	16,972
Castle Rock										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	37,933	38,537	38,762	39,174	39,584	40,199	40,413	40,827	41,246	41,870
Commercial Therms	132,718	133,186	132,587	132,514	132,426	132,891	132,278	132,203	132,142	132,604
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	170,650	171,723	171,349	171,688	172,010	172,900	172,691	173,030	173,388	174,475
Daily BaseLoad Therms	232	232	232	232	232	232	232	232	232	232
Peak Day Therms	1,159	1,145	1,147	1,150	1,153	1,173	1,158	1,161	1,163	1,166
Therms Per Residential Customer	446	447	445	444	444	446	444	443	443	445
Therms Per Commercial Customer	2,765	2,775	2,762	2,761	2,759	2,769	2,756	2,754	2,753	2,763
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	85	86	87	88	89	90	91	92	93	94
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	133	134	135	136	137	138	139	140	141	142

**Appendix B
Demand Forecast
Low Scenario**

Chemult	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.05%	0.56%	-0.46%	0.04%	0.03%	0.54%	-0.48%	0.02%	0.02%	0.53%
Residential Therms	13,146	13,233	13,192	13,213	13,231	13,312	13,262	13,275	13,286	13,340
Commercial Therms	39,259	39,463	39,260	39,260	39,259	39,463	39,259	39,259	39,260	39,464
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	52,404	52,697	52,453	52,473	52,491	52,775	52,521	52,534	52,546	52,825
Daily Baseload Therms	42	42	42	42	42	42	42	42	42	42
Peak Day Therms	381	379	380	380	380	381	380	380	380	380
Therms Per Residential Customer	496	499	498	499	499	502	500	501	501	504
Therms Per Commercial Customer	1,963	1,973	1,963	1,963	1,963	1,973	1,963	1,963	1,963	1,973
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	27	27	27	27	27	27	27	27	27	27
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	47	47	47	47	47	47	47	47	47	47
Dehawn Dairy	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%
Residential Therms	3,670	3,681	3,670	3,670	3,670	3,681	3,670	3,670	3,670	3,681
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,670	3,681	3,670	3,670	3,670	3,681	3,670	3,670	3,670	3,681
Daily Baseload Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	1,835	1,840	1,835	1,835	1,835	1,840	1,835	1,835	1,835	1,840
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Deming	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.17%	0.65%	-0.41%	0.15%	0.24%	0.66%	-0.31%	0.17%	0.07%	0.64%
Residential Therms	13,952	14,017	13,940	13,940	13,950	14,018	13,952	13,951	13,940	14,004
Commercial Therms	92,601	93,228	92,863	93,025	93,266	93,905	93,638	93,819	93,910	94,532
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	106,553	107,245	106,803	106,965	107,217	107,923	107,590	107,770	107,850	108,536
Daily Baseload Therms	49	50	49	41	51	50	50	50	50	43
Peak Day Therms	947	1,039	1,041	1,042	1,043	954	1,046	1,048	1,049	1,051
Therms Per Residential Customer	581	584	581	581	581	581	581	581	581	584
Therms Per Commercial Customer	7,123	7,171	7,143	7,156	7,174	7,223	7,203	7,217	7,224	7,272
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	37	37	37	37	37	37	37	37	37	37
East Stanwood Loop	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.10%	1.51%	0.65%	1.07%	1.07%	1.47%	0.42%	1.02%	1.00%	1.43%
Residential Therms	5,923,479	6,019,345	6,063,219	6,132,218	6,203,807	6,300,874	6,344,121	6,414,134	6,483,532	6,581,788
Commercial Therms	3,790,153	3,848,805	3,875,280	3,917,993	3,961,134	4,020,589	4,046,849	4,089,674	4,132,098	4,192,356
Industrial Therms	449,297	449,569	447,058	445,929	444,834	445,093	442,629	441,500	440,337	440,583
Ind., Inst., & Cmcl. Interrup. Therms	79,297	79,565	79,291	79,291	79,297	79,565	79,297	79,297	79,291	79,559
Total Core Therms	10,242,226	10,397,284	10,464,848	10,576,431	10,689,070	10,846,120	10,912,896	11,024,604	11,135,257	11,294,286
Daily Baseload Therms	9,513	9,636	9,766	9,866	9,964	9,994	10,087	10,217	10,350	10,448
Peak Day Therms	76,209	78,090	78,913	79,736	80,559	80,409	82,277	83,100	83,922	84,819
Therms Per Residential Customer	647	654	655	659	662	669	670	673	677	683
Therms Per Commercial Customer	3,543	3,575	3,577	3,594	3,611	3,643	3,644	3,661	3,678	3,709
Therms Per Industrial Customer	149,766	149,856	149,019	148,643	148,278	148,364	147,543	147,167	146,779	146,861
Residential Customers	9,150	9,205	9,259	9,314	9,368	9,421	9,475	9,528	9,581	9,633
Commercial Customers	1,070	1,077	1,083	1,090	1,097	1,104	1,110	1,117	1,124	1,130
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	10,223	10,285	10,347	10,408	10,469	10,529	10,589	10,649	10,708	10,767
Finley	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.18%	1.73%	0.52%	1.11%	1.13%	1.68%	0.48%	1.05%	1.02%	1.64%
Residential Therms	19,214	19,572	19,709	19,960	20,216	20,583	20,722	20,976	21,226	21,602
Commercial Therms	70,208	71,394	71,729	72,496	73,287	74,492	74,810	75,561	76,298	77,526
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	89,422	90,966	91,439	92,456	93,504	95,075	95,532	96,536	97,524	99,128
Daily Baseload Therms	24	24	24	7	15	25	26	26	27	5
Peak Day Therms	674	710	716	722	728	718	748	754	760	773
Therms Per Residential Customer	553	556	554	555	557	560	558	559	559	564
Therms Per Commercial Customer	5,401	5,492	5,518	5,577	5,637	5,730	5,755	5,812	5,869	5,964
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	35	35	36	36	36	37	37	38	38	38
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	48	48	49	49	49	50	50	51	51	51

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Gilchrist										
Total Therms Pct. Growth	0.56%	1.05%	-0.65%	0.43%	0.39%	0.86%	-0.22%	0.26%	0.22%	0.22%
Residential Therms	120,256	121,506	121,517	122,071	122,572	123,609	123,395	123,733	124,023	124,090
Commercial Therms	145,662	147,194	147,054	147,667	148,223	149,522	149,133	149,506	149,826	150,938
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	265,919	268,700	268,571	269,739	270,795	273,131	272,528	273,239	273,849	275,028
Daily Baseload Therms	148	149	149	150	151	152	152	152	152	153
Peak Day Therms	2,092	2,109	2,119	2,128	2,135	2,139	2,150	2,155	2,159	2,165
Therms Per Residential Customer	633	640	640	642	645	651	649	651	652	656
Therms Per Commercial Customer	3,100	3,132	3,097	3,110	3,122	3,149	3,141	3,149	3,155	3,179
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	190	190	190	190	190	190	190	190	190	190
Commercial Customers	47	47	47	47	47	47	47	47	47	47
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	237	237	237	237	237	237	238	238	238	238
Grandview										
Total Therms Pct. Growth	3.61%	3.61%	2.87%	2.97%	2.85%	2.82%	2.20%	2.28%	2.08%	2.25%
Residential Therms	602,134	609,960	612,591	617,732	623,088	630,239	632,390	636,807	640,660	647,219
Commercial Therms	3,705,511	3,854,455	3,981,248	4,113,744	4,244,407	4,375,338	4,484,651	4,597,826	4,703,619	4,818,244
Industrial Therms	40,756	40,970	40,730	40,727	40,753	40,971	40,755	40,755	40,729	40,945
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,348,400	4,505,385	4,634,568	4,772,203	4,908,248	5,046,548	5,157,794	5,275,388	5,385,009	5,506,407
Daily Baseload Therms	4,091	3,260	3,326	4,601	4,797	4,843	3,839	3,842	3,875	5,414
Peak Day Therms	15,197	18,809	19,223	19,623	20,007	16,821	20,801	21,139	21,463	21,857
Therms Per Residential Customer	566	571	570	572	573	577	576	577	577	580
Therms Per Commercial Customer	17,851	18,426	18,888	19,367	19,839	20,303	20,661	21,030	21,368	21,736
Therms Per Industrial Customer	4,076	4,097	4,073	4,073	4,075	4,097	4,075	4,075	4,073	4,094
Residential Customers	1,063	1,069	1,075	1,081	1,086	1,092	1,098	1,104	1,110	1,115
Commercial Customers	208	209	211	212	214	216	217	219	220	222
Industrial Customers	10	10	10	10	10	10	10	10	10	10
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,280	1,288	1,296	1,303	1,310	1,318	1,325	1,332	1,340	1,347
Hermiston										
Total Therms Pct. Growth	1.20%	1.68%	0.65%	1.16%	1.17%	1.63%	0.62%	1.10%	1.06%	1.58%
Residential Therms	2,593,571	2,648,272	2,673,949	2,714,445	2,755,820	2,811,386	2,837,052	2,877,573	2,917,163	2,973,568
Commercial Therms	3,258,225	3,312,525	3,334,896	3,373,619	3,413,380	3,468,328	3,490,960	3,529,703	3,567,371	3,623,134
Industrial Therms	174,017	174,891	173,974	173,974	174,017	174,891	174,017	174,017	173,974	174,849
Ind., Inst., & Cncl. Interup. Therms	673,179	676,060	672,957	672,958	673,179	676,060	673,177	673,178	672,959	675,840
Total Core Therms	6,698,992	6,811,749	6,855,776	6,934,995	7,016,396	7,130,666	7,175,206	7,254,470	7,331,466	7,447,391
Daily Baseload Therms	6,522	6,589	6,649	6,725	6,833	6,880	6,951	7,016	7,081	7,195
Peak Day Therms	48,922	51,738	52,326	52,912	53,497	52,044	54,828	55,412	55,995	56,747
Therms Per Residential Customer	548	555	556	560	564	571	572	576	579	586
Therms Per Commercial Customer	4,003	4,046	4,050	4,074	4,099	4,142	4,146	4,169	4,191	4,234
Therms Per Industrial Customer	21,752	21,861	21,747	21,747	21,752	21,861	21,752	21,752	21,747	21,856
Residential Customers	4,734	4,773	4,811	4,850	4,888	4,925	4,963	5,000	5,037	5,073
Commercial Customers	814	819	823	828	833	837	842	847	851	856
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,557	5,601	5,644	5,687	5,729	5,772	5,814	5,855	5,897	5,938
Huntington										
Total Therms Pct. Growth	2.14%	2.74%	1.47%	2.07%	2.09%	2.68%	1.41%	2.01%	1.98%	2.58%
Residential Therms	75,089	76,860	77,728	79,064	80,436	82,303	83,208	84,603	85,999	87,926
Commercial Therms	37,876	39,201	40,044	41,150	42,290	43,711	44,588	45,766	46,957	48,463
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	112,965	116,061	117,772	120,213	122,725	126,014	127,796	130,370	132,956	136,389
Daily Baseload Therms	11	11	12	12	12	11	11	12	13	13
Peak Day Therms	1,239	1,289	1,315	1,341	1,368	1,373	1,425	1,452	1,480	1,511
Therms Per Residential Customer	519	528	530	535	540	549	551	556	561	570
Therms Per Commercial Customer	1,920	1,947	1,953	1,969	1,987	2,018	2,023	2,043	2,065	2,099
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	145	146	147	148	149	150	151	152	153	154
Commercial Customers	20	20	21	21	21	22	22	22	23	23
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	164	166	167	169	170	172	173	174	176	177

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDS Church										
Total Therms Pct. Growth	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%
Residential Therms	5,056	5,079	5,056	5,056	5,056	5,056	5,056	5,056	5,056	5,079
Commercial Therms	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	9,959	10,008	9,959	9,959	9,959	10,008	9,959	9,959	9,959	10,008
Daily BaseLoad Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	57	57	57	57	57	57	57	57	57	57
Therms Per Residential Customer	1,264	1,270	1,264	1,264	1,264	1,270	1,264	1,264	1,264	1,270
Therms Per Commercial Customer	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	5	5	5	5	5	5	5	5	5	5
Longview South Loop										
Total Therms Pct. Growth	1.26%	1.61%	0.85%	1.22%	1.23%	1.55%	0.83%	1.16%	1.12%	1.49%
Residential Therms	1,393,300	1,427,938	1,451,900	1,481,312	1,511,147	1,546,182	1,570,114	1,599,512	1,628,436	1,663,848
Commercial Therms	4,843,155	4,915,237	4,951,871	5,006,763	5,063,079	5,135,925	5,173,186	5,228,110	5,281,549	5,355,128
Industrial Therms	153,078	150,012	146,001	142,507	139,059	135,968	132,059	128,585	125,081	121,969
Ind., Inst., & Cmcl. Interup. Therms	84,263	84,632	84,276	84,268	84,294	84,578	84,285	84,317	84,278	84,578
Total Core Therms	6,473,797	6,577,820	6,634,048	6,714,851	6,797,580	6,902,653	6,959,444	7,040,524	7,119,345	7,225,522
Daily BaseLoad Therms	5,534	5,588	5,652	5,891	4,796	5,901	5,954	5,922	5,985	4,442
Peak Day Therms	61,937	64,652	65,412	66,172	66,930	65,871	68,575	69,333	70,090	70,981
Therms Per Residential Customer	585	593	596	601	607	615	618	623	628	636
Therms Per Commercial Customer	4,841	4,880	4,884	4,906	4,930	4,969	4,974	4,996	5,016	5,055
Therms Per Industrial Customer	11,775	11,539	11,231	10,962	10,697	10,459	10,158	9,891	9,622	9,382
Residential Customers	2,383	2,410	2,437	2,463	2,489	2,515	2,541	2,566	2,591	2,616
Commercial Customers	1,000	1,007	1,014	1,020	1,027	1,034	1,040	1,046	1,053	1,059
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	3,397	3,431	3,464	3,497	3,530	3,563	3,595	3,627	3,658	3,689
Madras										
Total Therms Pct. Growth	0.95%	1.47%	0.37%	0.91%	0.93%	1.42%	0.35%	0.87%	0.83%	1.39%
Residential Therms	784,176	798,782	804,639	814,924	825,423	840,122	845,813	855,947	865,856	880,719
Commercial Therms	1,298,722	1,317,165	1,321,938	1,333,658	1,345,732	1,364,266	1,368,974	1,380,522	1,391,704	1,410,411
Industrial Therms	963,712	978,011	981,428	990,376	999,583	1,013,965	1,017,308	1,026,124	1,034,672	1,049,199
Ind., Inst., & Cmcl. Interup. Therms	278,365	279,828	278,292	278,292	278,365	278,365	278,365	278,365	278,292	279,755
Total Core Therms	3,324,976	3,373,787	3,386,297	3,417,250	3,449,103	3,498,182	3,510,461	3,540,958	3,570,523	3,620,084
Daily BaseLoad Therms	2,489	2,534	2,587	2,593	2,605	2,595	2,619	2,672	2,721	2,780
Peak Day Therms	27,849	28,985	29,260	29,534	29,808	29,159	30,341	30,611	30,880	31,141
Therms Per Residential Customer	531	536	535	537	539	543	544	544	546	550
Therms Per Commercial Customer	3,334	3,374	3,379	3,404	3,426	3,468	3,473	3,496	3,517	3,558
Therms Per Industrial Customer	53,540	54,334	54,524	55,021	55,532	56,331	56,517	57,007	57,482	58,289
Residential Customers	1,476	1,491	1,505	1,519	1,533	1,546	1,560	1,573	1,587	1,600
Commercial Customers	390	390	391	392	393	393	394	395	396	396
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,885	1,900	1,915	1,930	1,944	1,959	1,973	1,987	2,001	2,015
McCleary (Aberdeen/Hoquiam)										
Total Therms Pct. Growth	0.74%	1.17%	0.31%	0.75%	0.78%	1.15%	0.32%	0.73%	0.69%	1.13%
Residential Therms	2,799,708	2,845,176	2,865,094	2,896,181	2,932,224	2,978,288	2,998,603	3,031,723	3,063,834	3,110,467
Commercial Therms	3,245,493	3,274,418	3,276,740	3,292,936	3,310,277	3,339,601	3,342,754	3,358,967	3,374,016	3,403,576
Industrial Therms	185,063	183,650	180,846	178,778	176,770	175,329	172,622	170,556	168,434	166,911
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	6,230,264	6,303,244	6,322,681	6,369,896	6,419,280	6,493,218	6,513,979	6,561,247	6,606,284	6,681,015
Daily BaseLoad Therms	5,753	5,819	5,843	4,825	5,554	5,968	5,994	6,018	6,042	5,130
Peak Day Therms	37,270	39,716	40,012	40,308	40,603	38,903	41,312	41,607	41,901	42,317
Therms Per Residential Customer	707	714	714	717	721	728	731	734	734	741
Therms Per Commercial Customer	4,375	4,401	4,391	4,400	4,410	4,437	4,427	4,436	4,443	4,470
Therms Per Industrial Customer	14,236	14,127	13,911	13,752	13,598	13,487	13,279	13,120	12,956	12,844
Residential Customers	3,958	3,985	4,012	4,040	4,066	4,093	4,120	4,146	4,172	4,198
Commercial Customers	742	744	746	748	751	753	755	757	759	762
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,713	4,742	4,772	4,801	4,830	4,859	4,888	4,916	4,945	4,973
Milton-Freewater										
Total Therms Pct. Growth	1.13%	1.61%	0.58%	1.09%	1.12%	1.57%	0.57%	1.05%	1.00%	1.52%
Residential Therms	116,546	118,368	118,863	120,033	121,244	123,092	123,600	124,771	125,901	127,773
Commercial Therms	349,096	355,553	358,584	363,379	368,315	374,860	377,939	382,738	387,389	394,020
Industrial Therms	11,951	11,380	10,682	10,048	9,417	8,833	8,152	7,518	6,882	6,283
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	477,592	485,301	488,129	493,460	498,976	506,785	509,692	515,027	520,171	528,077
Daily BaseLoad Therms	408	411	411	402	421	434	439	440	440	435
Peak Day Therms	5,283	5,520	5,581	5,642	5,702	5,579	5,825	5,886	5,947	6,009
Therms Per Residential Customer	426	429	427	428	428	431	430	430	431	434
Therms Per Commercial Customer	2,989	3,021	3,023	3,040	3,059	3,090	3,093	3,110	3,126	3,157
Therms Per Industrial Customer	2,812	2,678	2,513	2,364	2,216	2,078	1,918	1,769	1,619	1,478
Residential Customers	273	276	278	281	283	285	288	290	292	295
Commercial Customers	117	118	119	120	120	121	122	123	124	125
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	395	398	401	404	408	411	414	417	420	424

**Appendix B
Demand Forecast
Low Scenario**

Mission Tap	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.78%	1.18%	0.38%	0.77%	0.76%	1.15%	0.35%	0.74%	0.74%	1.23%
Residential Therms	124,557	125,682	125,716	126,291	126,864	128,002	128,025	128,600	129,176	130,321
Commercial Therms	435,772	441,249	443,346	447,124	450,898	456,432	458,466	462,245	466,029	471,621
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	560,329	566,931	569,061	573,415	577,764	584,434	586,492	590,845	595,204	601,942
Daily Baseload Therms	566	571	576	580	584	589	593	598	603	607
Peak Day Therms	6,171	6,213	6,261	6,308	6,356	6,408	6,450	6,498	6,545	6,592
Therms Per Residential Customer	551	554	553	555	556	559	558	559	560	564
Therms Per Commercial Customer	9,006	9,090	9,061	9,067	9,094	9,150	9,129	9,123	9,177	9,220
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	226	227	227	228	228	229	229	230	231	231
Commercial Customers	48	49	49	49	50	50	50	51	51	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	274	275	276	277	278	279	280	281	281	282

Moses Lake	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.26%	0.69%	-0.15%	0.21%	0.25%	0.64%	-0.23%	0.25%	0.16%	0.65%
Residential Therms	299,637	302,164	301,925	302,884	303,991	306,369	305,834	306,921	307,723	310,152
Commercial Therms	2,293,041	2,310,589	2,309,299	2,315,746	2,323,312	2,339,407	2,335,540	2,342,991	2,348,063	2,364,576
Industrial Therms	88,222	86,719	84,148	82,513	80,722	79,489	77,561	75,698	74,243	72,924
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,680,901	2,699,472	2,695,373	2,701,144	2,708,025	2,725,265	2,718,935	2,725,610	2,730,029	2,747,652
Daily Baseload Therms	2,634	2,623	2,625	2,636	2,641	2,649	2,679	2,679	2,677	2,689
Peak Day Therms	15,992	16,576	16,593	16,599	16,607	16,193	16,696	16,706	16,708	16,994
Therms Per Residential Customer	416	419	418	420	421	424	423	424	425	428
Therms Per Commercial Customer	5,947	5,989	5,981	5,992	6,009	6,045	6,031	6,046	6,055	6,094
Therms Per Industrial Customer	11,028	10,840	10,519	10,314	10,090	9,936	9,695	9,462	9,280	9,115
Residential Customers	721	721	722	722	723	723	723	723	724	724
Commercial Customers	386	386	386	386	387	387	387	388	388	388
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,115	1,115	1,116	1,116	1,117	1,118	1,119	1,119	1,120	1,120

Moxee (Beauchene)	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.26%	1.59%	0.74%	1.11%	1.08%	1.38%	0.55%	0.91%	0.84%	1.23%
Residential Therms	716,915	729,486	734,786	743,394	751,868	763,374	767,433	774,782	781,682	792,222
Commercial Therms	758,592	784,158	801,764	822,432	842,551	865,576	879,979	897,609	914,400	935,116
Industrial Therms	530,047	523,834	516,039	509,484	503,223	497,732	491,026	485,421	479,938	475,467
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,005,554	2,037,478	2,052,589	2,075,310	2,097,642	2,126,682	2,138,437	2,157,813	2,176,020	2,202,805
Daily Baseload Therms	586	409	444	491	630	622	453	472	508	656
Peak Day Therms	12,454	13,231	13,420	13,602	13,775	13,551	14,210	14,360	14,504	14,757
Therms Per Residential Customer	585	589	588	589	591	594	592	593	593	597
Therms Per Commercial Customer	10,796	11,072	11,209	11,399	11,596	11,790	11,905	12,016	12,161	12,323
Therms Per Industrial Customer	41,329	40,717	39,987	39,479	38,755	38,332	37,701	37,046	36,409	35,858
Residential Customers	1,225	1,238	1,250	1,262	1,273	1,285	1,296	1,307	1,317	1,328
Commercial Customers	70	71	72	72	73	73	74	75	75	76
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,309	1,321	1,334	1,347	1,359	1,371	1,383	1,394	1,406	1,417

North Bend	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	3.11%	3.63%	2.26%	2.88%	2.85%	3.35%	1.99%	2.55%	2.45%	3.15%
Residential Therms	6,673	7,114	7,262	7,463	7,649	7,920	8,067	8,269	8,471	8,744
Commercial Therms	265,321	275,260	281,796	290,208	298,763	309,037	315,451	323,741	331,914	342,622
Industrial Therms	9,857	9,917	9,850	9,850	9,856	9,919	9,853	9,855	9,850	9,913
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	282,051	292,291	298,907	307,521	316,287	326,876	333,370	341,865	350,235	361,279
Daily Baseload Therms	33	32	31	31	32	32	32	32	31	32
Peak Day Therms	4,580	4,851	5,002	5,153	5,305	5,310	5,604	5,755	5,907	6,054
Therms Per Residential Customer	1,718	1,779	1,815	1,866	1,917	1,980	2,017	2,067	2,118	2,186
Therms Per Commercial Customer	2,482	2,531	2,546	2,579	2,615	2,663	2,676	2,707	2,738	2,787
Therms Per Industrial Customer	4,928	4,958	4,925	4,925	4,928	4,959	4,926	4,927	4,925	4,956
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	107	109	111	113	114	116	118	120	121	123
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	113	115	117	119	120	122	124	126	127	129

Nyssa-Ontario	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,261,298	2,297,560	2,309,184	2,333,200	2,357,543	2,394,315	2,405,749	2,429,772	2,453,455	2,490,730
Commercial Therms	2,772,779	2,819,309	2,837,149	2,869,442	2,902,125	2,940,333	2,966,882	2,999,185	3,031,081	3,078,939
Industrial Therms	488,233	493,469	495,966	499,826	503,776	509,048	511,603	515,491	519,283	524,557
Ind., Inst., & Cmcl. Interup. Therms	868,091	872,356	867,966	867,967	868,091	872,356	868,088	868,090	867,968	872,234
Total Core Therms	6,390,401	6,482,695	6,510,264	6,570,435	6,631,535	6,725,052	6,752,322	6,812,537	6,871,787	6,966,461
Daily Baseload Therms	3,949	3,947	3,972	4,014	4,061	4,074	4,096	4,116	4,142	4,180
Peak Day Therms	45,409	46,859	47,289	47,719	48,148	47,795	49,147	49,576	50,004	50,578
Therms Per Residential Customer	555	561	561	563	566	572	572	574	577	583
Therms Per Commercial Customer	2,757	2,787	2,789	2,806	2,822	2,852	2,853	2,869	2,884	2,914
Therms Per Industrial Customer	17,997	18,022	17,903	17,860	17,735	17,791	17,691	17,639	17,548	17,589
Residential Customers	4,075	4,097	4,120	4,142	4,164	4,186	4,208	4,230	4,251	4,273
Commercial Customers	1,006	1,011	1,017	1,023	1,029	1,034	1,040	1,045	1,051	1,056
Industrial Customers	27	27	28	28	28	29	29	29	30	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,109	5,137	5,165	5,194	5,222	5,250	5,278	5,305	5,333	5,360

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Othello										
Total Therms Pct. Growth	0.67%	1.04%	0.36%	0.64%	0.69%	1.02%	0.36%	0.68%	0.69%	1.09%
Residential Therms	69,001	613,018	611,504	612,685	613,945	616,500	617,790	619,059	623,399	623,399
Commercial Therms	1,447,742	1,466,863	1,477,987	1,492,029	1,507,285	1,526,619	1,537,953	1,553,292	1,568,991	1,590,476
Industrial Therms	200,769	201,637	200,769	200,769	200,769	201,637	200,769	200,769	200,769	201,637
Ind., Inst., & Cncl. Interup. Therms	81,766	82,064	81,765	81,765	81,766	82,064	81,766	81,766	81,765	82,063
Total Core Therms	2,339,277	2,363,581	2,372,025	2,387,248	2,403,784	2,428,324	2,436,996	2,453,617	2,470,613	2,497,475
Daily BaseLoad Therms	1,772	1,790	1,805	1,818	1,832	1,850	1,865	1,880	1,895	1,915
Peak Day Therms	12,451	12,532	12,603	12,666	12,734	12,766	12,863	12,931	13,002	13,066
Therms Per Residential Customer	539	542	539	539	539	541	539	538	538	541
Therms Per Commercial Customer	4,412	4,442	4,446	4,461	4,478	4,506	4,513	4,530	4,548	4,584
Therms Per Industrial Customer	22,308	22,404	22,308	22,308	22,308	22,404	22,308	22,308	22,308	22,404
Residential Customers	1,129	1,132	1,134	1,137	1,140	1,142	1,145	1,147	1,150	1,152
Commercial Customers	328	330	332	334	337	339	341	343	345	347
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	1,467	1,472	1,477	1,481	1,486	1,491	1,495	1,500	1,505	1,509
Patterson										
Total Therms Pct. Growth	0.00%	0.14%	-0.19%	0.00%	0.06%	0.14%	-0.14%	0.00%	-0.05%	0.14%
Residential Therms	120	128	136	143	151	159	167	175	182	190
Commercial Therms	290,342	290,749	290,186	290,185	290,340	290,749	290,342	290,342	290,186	290,591
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	290,462	290,877	290,322	290,328	290,491	290,908	290,508	290,517	290,348	290,780
Daily BaseLoad Therms	144	144	146	143	139	144	144	144	147	141
Peak Day Therms	189	341	342	344	345	186	343	344	346	342
Therms Per Residential Customer	120	128	136	143	151	159	167	175	182	190
Therms Per Commercial Customer	58,068	58,150	58,037	58,037	58,068	58,150	58,068	58,068	58,037	58,118
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	6	6	6	6	6	6	6	6	6	6
Pendleton										
Total Therms Pct. Growth	0.75%	1.24%	0.24%	0.74%	0.75%	1.22%	0.23%	0.72%	0.70%	1.20%
Residential Therms	3,033,870	3,079,084	3,092,410	3,121,769	3,151,580	3,197,394	3,210,564	3,239,931	3,268,828	3,315,234
Commercial Therms	2,450,928	2,480,379	2,485,827	2,503,383	2,521,301	2,551,086	2,556,558	2,574,119	2,591,307	2,621,420
Industrial Therms	150,005	150,833	149,990	149,998	150,035	150,834	149,997	150,003	149,993	150,845
Ind., Inst., & Cncl. Interup. Therms	637,873	640,321	637,776	637,776	637,873	640,321	637,873	637,873	637,776	640,224
Total Core Therms	6,272,675	6,350,617	6,366,003	6,412,925	6,460,788	6,539,634	6,554,992	6,601,926	6,647,905	6,727,723
Daily BaseLoad Therms	4,770	4,830	4,873	4,903	4,926	4,927	4,968	5,016	5,060	5,085
Peak Day Therms	64,003	65,465	65,949	66,433	66,916	66,540	67,960	68,444	68,927	69,489
Therms Per Residential Customer	554	559	558	560	560	567	569	571	576	576
Therms Per Commercial Customer	3,026	3,048	3,040	3,047	3,054	3,076	3,068	3,076	3,082	3,104
Therms Per Industrial Customer	25,001	25,139	24,998	25,000	25,006	25,139	25,000	25,000	24,999	25,141
Residential Customers	5,474	5,506	5,539	5,571	5,603	5,634	5,666	5,697	5,728	5,759
Commercial Customers	810	814	818	822	825	829	833	837	841	845
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	6,291	6,327	6,363	6,399	6,435	6,471	6,506	6,541	6,576	6,611
Plymouth										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Therms	9,193	9,258	9,192	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Therms	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	27,484	27,651	27,480	27,482	27,484	27,651	27,479	27,482	27,485	27,652
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	211	211	212	211	211	211	211
Therms Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Therms Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Therms Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Prineville										
Total Therms Pct. Growth	1.73%	2.27%	1.09%	1.64%	1.64%	2.16%	1.01%	1.54%	1.49%	2.06%
Residential Therms	2,070,183	2,131,595	2,168,425	2,217,629	2,267,401	2,329,880	2,366,069	2,415,264	2,463,810	2,527,330
Commercial Therms	1,920,053	1,955,464	1,969,184	1,995,950	2,019,229	2,055,198	2,068,932	2,093,732	2,118,003	2,154,527
Industrial Therms	409,645	412,543	410,854	411,515	412,275	415,197	413,606	414,274	414,851	417,798
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,399,881	4,499,601	4,548,462	4,623,095	4,698,905	4,800,275	4,848,606	4,923,270	4,996,664	5,099,655
Daily BaseLoad Therms	2,977	2,998	3,008	3,053	3,136	3,220	3,276	3,283	3,289	3,386
Peak Day Therms	41,468	43,317	44,042	44,766	45,490	45,016	46,949	47,673	48,397	49,132
Therms Per Residential Customer	655	667	670	677	685	696	699	706	713	724
Therms Per Commercial Customer	3,343	3,381	3,381	3,401	3,420	3,459	3,459	3,478	3,497	3,535
Therms Per Industrial Customer	12,801	12,809	12,642	12,662	12,686	12,776	12,727	12,748	12,765	12,856
Residential Customers	3,160	3,198	3,236	3,273	3,310	3,347	3,383	3,419	3,454	3,489
Commercial Customers	574	578	582	586	590	594	598	602	606	610
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	3,766	3,809	3,851	3,892	3,933	3,974	4,014	4,053	4,092	4,131

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sedro-Woolley Loop										
Total Thems Pct. Growth	0.78%	1.21%	0.34%	0.78%	0.79%	1.21%	0.35%	0.78%	0.77%	1.21%
Residential Thems	18,045,371	18,268,393	18,331,911	18,477,969	18,427,284	18,857,085	18,924,514	19,074,960	19,224,337	19,461,115
Commercial Thems	10,247,178	10,375,828	10,417,987	10,504,992	10,593,922	10,726,508	10,771,083	10,860,703	10,949,702	11,086,340
Industrial Thems	1,069,268	1,072,912	1,069,138	1,069,137	1,069,268	1,072,912	1,069,269	1,069,268	1,069,136	1,072,790
Ind., Inst., & Cmcl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	29,361,816	29,717,132	29,819,035	30,052,099	30,290,474	30,656,504	30,764,867	31,004,931	31,243,175	31,620,235
Daily Baseload Thems	27,517	27,949	28,098	26,854	27,380	28,826	28,959	29,093	29,229	27,919
Peak Day Thems	168,696	173,804	175,047	176,297	177,555	175,757	180,582	181,869	183,164	184,965
Thems Per Residential Customer	632	636	634	635	637	641	640	641	642	647
Thems Per Commercial Customer	2,940	2,964	2,964	2,977	2,990	3,016	3,016	3,029	3,042	3,068
Thems Per Industrial Customer	11,187	11,188	11,059	11,006	10,956	10,909	10,825	10,765	10,721	10,713
Residential Customers	28,560	28,735	28,908	29,081	29,252	29,423	29,592	29,761	29,928	30,095
Commercial Customers	3,486	3,500	3,514	3,529	3,543	3,557	3,571	3,585	3,599	3,613
Industrial Customers	96	96	97	97	98	98	99	99	100	100
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	32,141	32,331	32,519	32,707	32,893	33,078	33,262	33,445	33,627	33,808
South Hermiston										
Total Thems Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Thems	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Thems	9,193	9,258	9,192	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Thems	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cmcl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	27,484	27,651	27,480	27,482	27,484	27,651	27,479	27,482	27,485	27,652
Daily Baseload Thems	6	6	6	6	6	6	6	6	6	6
Peak Day Thems	211	211	211	211	211	211	211	211	211	211
Thems Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Thems Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Thems Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14	14	14	14	14	14	14	14	14	14
Stanfield										
Total Thems Pct. Growth	1.67%	2.16%	1.10%	1.59%	1.58%	2.06%	1.02%	1.50%	1.46%	1.97%
Residential Thems	279,595	286,492	290,449	295,887	301,371	308,378	312,271	317,710	323,098	330,214
Commercial Thems	87,330	88,357	88,516	89,116	89,728	90,767	90,927	91,527	92,113	93,164
Industrial Thems	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	366,925	374,849	378,966	385,003	391,099	399,145	403,198	409,237	415,212	423,378
Daily Baseload Thems	153	150	151	154	159	160	163	165	166	167
Peak Day Thems	3,131	3,235	3,290	3,344	3,399	3,385	3,501	3,555	3,610	3,657
Thems Per Residential Customer	699	708	710	716	722	722	734	739	745	754
Thems Per Commercial Customer	2,141	2,141	2,117	2,108	2,100	2,103	2,087	2,081	2,074	2,075
Thems Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	400	405	409	413	417	422	426	430	434	438
Commercial Customers	41	41	42	42	43	43	44	44	44	45
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	441	446	451	455	460	465	469	474	478	483
Stearns (Sunriver)										
Total Thems Pct. Growth	0.91%	1.41%	0.40%	0.89%	0.88%	1.38%	0.37%	0.86%	0.85%	1.35%
Residential Thems	4,146,485	4,214,465	4,238,873	4,284,954	4,330,984	4,399,945	4,423,340	4,469,470	4,515,651	4,585,614
Commercial Thems	1,102,900	1,109,458	1,106,772	1,108,685	1,110,561	1,117,151	1,114,394	1,116,308	1,118,259	1,124,882
Industrial Thems	40,698	40,653	40,291	40,087	39,881	39,834	39,474	39,269	39,066	39,015
Ind., Inst., & Cmcl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	5,290,084	5,364,577	5,385,936	5,433,726	5,481,426	5,556,929	5,577,227	5,625,046	5,672,976	5,749,510
Daily Baseload Thems	5,711	5,774	5,814	5,851	5,885	5,942	5,979	6,019	6,059	6,117
Peak Day Thems	43,819	44,170	44,575	44,979	45,383	45,929	46,235	46,640	47,044	47,493
Thems Per Residential Customer	1,032	1,043	1,043	1,049	1,055	1,066	1,066	1,071	1,077	1,088
Thems Per Commercial Customer	4,984	5,003	4,990	4,996	4,996	5,026	5,007	5,011	5,020	5,038
Thems Per Industrial Customer	13,566	13,551	13,430	13,362	13,294	13,278	13,158	13,090	13,022	13,005
Residential Customers	4,019	4,041	4,063	4,085	4,107	4,129	4,150	4,172	4,193	4,215
Commercial Customers	221	222	222	222	222	222	223	223	223	223
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	4,243	4,266	4,288	4,310	4,332	4,354	4,376	4,398	4,419	4,441
Sumas SPE Loop										
Total Thems Pct. Growth	1.02%	1.43%	0.59%	1.03%	1.06%	1.43%	0.63%	1.03%	1.00%	1.43%
Residential Thems	33,175,028	33,602,009	33,744,691	34,039,536	34,348,323	34,792,949	34,954,027	35,262,208	35,562,635	36,025,845
Commercial Thems	17,912,438	18,181,699	18,307,486	18,511,224	18,723,286	19,004,617	19,141,926	19,354,881	19,563,780	19,857,622
Industrial Thems	2,441,483	2,509,170	2,561,590	2,623,087	2,686,193	2,757,286	2,812,513	2,876,794	2,940,750	3,015,431
Ind., Inst., & Cmcl. Interrup. Thems	-	-	-	-	-	-	-	-	-	-
Total Core Thems	53,528,950	54,292,879	54,613,767	55,173,847	55,757,803	56,554,852	56,908,466	57,493,882	58,067,165	58,899,097
Daily Baseload Thems	30,559	30,894	31,209	14,696	20,759	32,221	32,556	32,891	33,240	15,494
Peak Day Thems	483,845	504,934	510,292	515,706	521,181	507,978	531,252	536,907	542,620	547,306
Thems Per Residential Customer	677	682	681	683	685	690	689	691	693	698
Thems Per Commercial Customer	2,990	3,009	3,006	3,015	3,025	3,046	3,045	3,055	3,065	3,088
Thems Per Industrial Customer	25,565	25,902	26,079	26,339	26,630	26,969	27,161	27,446	27,726	28,094
Residential Customers	48,983	49,279	49,572	49,864	50,155	50,444	50,732	51,019	51,304	51,588
Commercial Customers	5,992	6,042	6,091	6,141	6,190	6,238	6,287	6,335	6,383	6,431
Industrial Customers	96	97	98	100	101	102	104	105	106	107
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	55,070	55,417	55,762	56,104	56,445	56,785	57,123	57,459	57,793	58,126

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Sunnyside										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.78%	1.27%
Residential Therms	1,176,428	1,195,485	1,201,939	1,214,167	1,224,139	1,243,697	1,249,284	1,258,733	1,268,622	1,284,621
Commercial Therms	1,916,217	1,946,966	1,959,311	1,979,977	2,000,197	2,028,367	2,037,623	2,055,266	2,071,963	2,097,797
Industrial Therms	696,409	705,222	708,931	714,952	720,883	728,920	731,794	736,934	741,756	749,090
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	3,789,064	3,847,673	3,870,171	3,909,096	3,947,219	4,000,983	4,017,701	4,050,932	4,082,341	4,131,709
Daily BaseLoad Therms	2,850	2,880	2,891	2,919	2,965	3,005	3,030	3,045	3,049	3,098
Peak Day Therms	25,083	26,023	26,287	26,542	26,787	26,413	27,292	27,508	27,716	27,963
Therms Per Residential Customer	554	559	559	561	563	567	566	567	568	572
Therms Per Commercial Customer	3,312	3,342	3,341	3,354	3,365	3,390	3,384	3,392	3,398	3,418
Therms Per Industrial Customer	38,559	38,217	38,418	38,744	39,065	38,537	38,689	38,961	39,216	39,369
Residential Customers	2,123	2,137	2,151	2,165	2,179	2,193	2,206	2,220	2,233	2,247
Commercial Customers	579	583	587	590	594	598	602	606	610	614
Industrial Customers	18	18	18	18	18	18	19	19	19	19
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,719	2,738	2,756	2,774	2,791	2,810	2,827	2,845	2,862	2,880
Umatilla										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	539,733	555,495	565,625	578,529	591,415	607,441	617,289	630,193	643,117	659,408
Commercial Therms	550,148	561,649	567,802	576,598	585,377	597,045	603,013	611,808	620,623	632,461
Industrial Therms	948,192	952,588	950,708	951,958	953,195	957,613	955,696	956,947	958,213	962,652
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,038,073	2,069,732	2,084,135	2,107,086	2,129,987	2,162,099	2,175,998	2,198,949	2,221,953	2,254,520
Daily BaseLoad Therms	2,382	2,394	2,414	2,433	2,450	2,459	2,478	2,498	2,519	2,527
Peak Day Therms	12,173	12,303	12,466	12,628	12,791	13,030	13,137	13,299	13,461	13,645
Therms Per Residential Customer	493	501	504	509	514	521	523	528	533	541
Therms Per Commercial Customer	3,494	3,538	3,548	3,577	3,602	3,646	3,653	3,681	3,708	3,751
Therms Per Industrial Customer	135,456	136,084	135,815	135,994	136,171	136,802	136,528	136,707	136,888	137,522
Residential Customers	1,094	1,109	1,123	1,138	1,152	1,166	1,179	1,193	1,206	1,219
Commercial Customers	157	159	160	161	163	164	165	166	167	169
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,259	1,275	1,290	1,306	1,321	1,336	1,351	1,366	1,381	1,395
Walla Walla										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,512,200	7,620,511	7,654,637	7,720,674	7,786,295	7,883,771	7,906,483	7,963,218	8,015,556	8,104,140
Commercial Therms	6,573,689	6,644,322	6,654,981	6,692,140	6,729,220	6,792,074	6,795,259	6,825,844	6,853,114	6,909,535
Industrial Therms	252,628	258,290	262,977	267,889	272,782	278,574	282,405	286,525	290,797	296,187
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,338,517	14,523,753	14,572,595	14,680,704	14,788,297	14,954,419	14,983,788	15,075,587	15,159,467	15,309,862
Daily BaseLoad Therms	11,718	11,749	11,771	11,851	11,985	12,122	12,207	12,208	12,204	12,204
Peak Day Therms	162,834	166,652	168,050	169,354	170,622	169,290	172,944	174,053	175,097	176,054
Therms Per Residential Customer	590	595	593	594	596	599	598	598	598	601
Therms Per Commercial Customer	4,623	4,645	4,624	4,623	4,622	4,639	4,615	4,611	4,605	4,618
Therms Per Industrial Customer	11,676	11,847	11,816	11,998	12,026	12,206	12,209	12,186	12,332	12,384
Residential Customers	12,730	12,817	12,903	12,988	13,072	13,156	13,238	13,320	13,400	13,481
Commercial Customers	1,422	1,430	1,439	1,448	1,456	1,464	1,472	1,480	1,488	1,496
Industrial Customers	22	22	22	22	23	23	23	24	24	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14,173	14,269	14,365	14,458	14,551	14,643	14,734	14,824	14,912	15,001
Wenatchee										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	615,877	623,753	625,088	629,826	634,772	642,836	644,277	649,018	653,545	661,705
Commercial Therms	3,721,484	3,765,214	3,772,035	3,796,626	3,826,913	3,873,114	3,882,272	3,910,356	3,937,386	3,985,014
Industrial Therms	450,883	463,608	472,281	483,021	493,904	506,812	515,439	526,185	536,776	549,860
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	4,788,154	4,852,576	4,869,403	4,911,472	4,955,589	5,022,762	5,041,988	5,085,559	5,127,707	5,196,578
Daily BaseLoad Therms	4,372	4,343	4,335	4,377	4,473	4,548	4,592	4,585	4,576	4,653
Peak Day Therms	31,696	33,623	33,884	34,149	34,416	33,089	35,029	35,303	35,579	35,929
Therms Per Residential Customer	421	424	422	423	424	427	426	427	427	430
Therms Per Commercial Customer	5,147	5,186	5,175	5,190	5,207	5,249	5,241	5,258	5,274	5,317
Therms Per Industrial Customer	27,970	28,177	28,515	28,850	29,067	29,827	29,902	30,223	30,831	30,975
Residential Customers	1,463	1,472	1,480	1,488	1,497	1,505	1,513	1,521	1,529	1,537
Commercial Customers	723	726	729	732	735	738	741	744	747	750
Industrial Customers	16	16	17	17	17	17	17	17	17	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2,202	2,214	2,225	2,237	2,249	2,260	2,271	2,282	2,293	2,305
Woodland										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	609,072	630,128	644,910	663,008	681,593	703,005	717,920	736,065	753,684	775,429
Commercial Therms	918,072	939,343	950,581	967,233	984,852	1,006,475	1,018,327	1,035,035	1,050,726	1,072,673
Industrial Therms	933,472	964,960	988,369	1,016,101	1,044,636	1,076,547	1,100,293	1,128,068	1,154,955	1,187,248
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	2,460,616	2,534,431	2,583,860	2,646,343	2,711,081	2,784,027	2,826,540	2,899,168	2,959,365	3,035,349
Daily BaseLoad Therms	3,131	2,987	3,043	2,663	3,232	3,545	3,351	3,441	3,497	3,022
Peak Day Therms	15,148	17,616	18,049	18,483	18,917	17,063	19,783	20,217	20,651	21,083
Therms Per Residential Customer	675	688	695	705	716	729	736	745	754	767
Therms Per Commercial Customer	3,565	3,607	3,612	3,638	3,665	3,709	3,717	3,740	3,762	3,805
Therms Per Industrial Customer	44,979	45,628	45,969	47,031	47,517	48,151	48,994	49,498	49,890	51,071
Residential Customers	903	915	928	940	952	964	976	988	999	1,011
Commercial Customers	258	260	263	266	269	271	274	277	279	282
Industrial Customers	21	21	22	22	22	22	22	23	23	23
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	1,181	1,197	1,212	1,227	1,243	1,258	1,272	1,287	1,302	1,316

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Yakima Chief Ranch										
Total Therms Pct. Growth	-0.04%	0.12%	-0.06%	-0.02%	-0.04%	0.11%	-0.06%	-0.03%	-0.03%	0.12%
Residential Therms	319,080	319,476	319,299	319,234	319,112	319,475	319,287	319,177	319,086	319,469
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	319,080	319,476	319,299	319,234	319,112	319,475	319,287	319,177	319,086	319,469
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	159,540	159,738	159,650	159,617	159,556	159,737	159,644	159,588	159,543	159,734
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	2	2	2	2	2	2	2	2	2	2
Yakima Loop										
Total Therms Pct. Growth	1.36%	1.81%	0.71%	1.19%	1.16%	1.58%	0.52%	0.97%	0.90%	1.39%
Residential Therms	14,132,775	14,366,697	14,441,652	14,590,475	14,737,698	14,953,501	15,007,340	15,134,402	15,252,970	15,452,326
Commercial Therms	14,614,565	14,871,513	14,970,890	15,142,611	15,312,450	15,548,302	15,623,464	15,770,086	15,906,929	16,123,638
Industrial Therms	4,010,842	4,112,173	4,174,309	4,252,901	4,330,287	4,421,751	4,472,655	4,539,766	4,602,716	4,685,230
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	32,758,182	33,350,384	33,586,651	33,985,987	34,380,435	34,923,555	35,103,459	35,444,254	35,762,615	36,261,194
Daily BaseLoad Therms	22,699	22,763	22,759	23,058	23,673	24,183	24,440	24,438	24,353	24,686
Peak Day Therms	275,616	289,085	292,550	295,896	299,113	292,056	305,346	308,193	310,938	313,781
Therms Per Residential Customer	671	678	678	681	683	689	688	690	691	696
Therms Per Commercial Customer	3,808	3,849	3,849	3,868	3,886	3,920	3,914	3,927	3,936	3,966
Therms Per Industrial Customer	39,391	39,914	40,024	40,309	40,555	40,983	41,047	41,262	41,440	41,779
Residential Customers	21,048	21,178	21,308	21,437	21,565	21,692	21,819	21,945	22,070	22,194
Commercial Customers	3,838	3,864	3,890	3,915	3,941	3,966	3,991	4,016	4,041	4,066
Industrial Customers	102	103	104	106	107	108	109	110	111	112
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	24,987	25,145	25,302	25,457	25,612	25,766	25,919	26,071	26,222	26,372
Yakima Training Center										
Total Therms Pct. Growth	0.50%	1.08%	-0.14%	0.45%	0.44%	1.01%	-0.21%	0.38%	0.35%	0.95%
Residential Therms	20,575	20,968	21,123	21,386	21,642	22,003	22,117	22,341	22,554	22,887
Commercial Therms	350,348	353,962	353,288	354,703	356,090	359,559	358,662	359,869	361,012	364,308
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	370,923	374,929	374,411	376,088	377,731	381,562	380,779	382,211	383,567	387,195
Daily BaseLoad Therms	45	44	46	47	47	44	45	47	48	47
Peak Day Therms	3,508	3,553	3,569	3,585	3,601	3,585	3,629	3,643	3,656	3,668
Therms Per Residential Customer	793	805	801	805	807	809	811	807	814	814
Therms Per Commercial Customer	3,147	3,173	3,157	3,166	3,167	3,193	3,176	3,180	3,184	3,205
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	26	26	26	27	27	27	27	28	28	28
Commercial Customers	111	112	112	112	112	113	113	113	113	114
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	137	138	138	139	139	140	140	141	141	142
Zillah (Toppensish)										
Total Therms Pct. Growth	0.69%	1.14%	0.07%	0.61%	0.69%	1.04%	0.06%	0.52%	0.39%	0.94%
Residential Therms	1,064,377	1,075,727	1,075,073	1,080,441	1,086,707	1,097,429	1,096,724	1,101,616	1,105,123	1,114,804
Commercial Therms	2,076,308	2,106,636	2,113,638	2,132,477	2,152,933	2,180,931	2,187,083	2,203,181	2,216,331	2,242,207
Industrial Therms	743,908	746,968	743,175	743,147	743,908	746,940	743,908	743,939	743,181	746,176
Ind., Inst., & Cmcl. Interup. Therms	66,869	67,280	67,465	67,789	68,138	68,414	68,570	68,861	69,054	69,425
Total Core Therms	3,951,462	3,996,611	3,999,351	4,023,853	4,051,686	4,093,714	4,096,284	4,117,597	4,133,690	4,172,428
Daily BaseLoad Therms	3,183	2,942	2,981	1,128	2,262	3,280	2,942	3,070	3,106	1,190
Peak Day Therms	30,989	35,405	35,629	35,846	36,054	32,043	36,496	36,679	36,855	37,078
Therms Per Residential Customer	532	536	534	534	535	539	536	537	536	539
Therms Per Commercial Customer	3,746	3,778	3,768	3,779	3,793	3,820	3,809	3,816	3,817	3,840
Therms Per Industrial Customer	29,770	29,375	29,181	29,180	29,210	29,284	28,681	28,682	28,653	28,768
Residential Customers	1,999	2,007	2,015	2,023	2,030	2,038	2,045	2,053	2,061	2,068
Commercial Customers	554	558	561	564	568	571	574	577	581	584
Industrial Customers	25	25	25	25	25	26	26	26	26	26
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	2,580	2,591	2,602	2,613	2,624	2,635	2,647	2,657	2,668	2,679
Zone 10										
Total Therms Pct. Growth	1.71%	2.01%	1.12%	1.48%	1.47%	1.70%	0.90%	1.21%	1.09%	1.46%
Residential Therms	3,437,718	3,478,557	3,486,297	3,509,899	3,534,455	3,572,457	3,577,926	3,598,481	3,616,385	3,651,432
Commercial Therms	8,234,472	8,450,690	8,598,269	8,774,218	8,949,913	9,143,099	9,269,447	9,420,184	9,599,204	9,731,643
Industrial Therms	1,709,946	1,722,813	1,721,578	1,727,569	1,734,419	1,746,484	1,745,330	1,750,501	1,754,409	1,765,734
Ind., Inst., & Cmcl. Interup. Therms	66,869	67,280	67,465	67,789	68,138	68,414	68,570	68,861	69,054	69,425
Total Core Therms	13,449,005	13,719,340	13,873,609	14,079,474	14,286,925	14,530,465	14,661,273	14,838,028	14,999,052	15,218,235
Daily BaseLoad Therms	10,930	9,890	10,018	9,494	10,891	11,963	10,666	10,786	10,871	10,567
Peak Day Therms	75,740	85,473	86,393	87,282	88,135	79,859	89,933	90,685	91,409	92,314
Therms Per Residential Customer	608	612	610	611	613	616	614	615	615	618
Therms Per Commercial Customer	5,533	5,640	5,703	5,785	5,864	5,955	6,001	6,064	6,116	6,189
Therms Per Industrial Customer	28,476	28,298	28,259	28,357	28,470	28,434	28,218	28,301	28,364	28,496
Residential Customers	5,656	5,685	5,714	5,742	5,770	5,798	5,826	5,853	5,881	5,908
Commercial Customers	1,488	1,498	1,508	1,517	1,526	1,535	1,545	1,554	1,563	1,572
Industrial Customers	60	61	61	61	61	61	62	62	62	62
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	7,206	7,245	7,283	7,321	7,358	7,396	7,433	7,470	7,507	7,544

**Appendix B
Demand Forecast
Low Scenario**

Zone 11	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.88%	0.94%	0.87%	1.36%
Residential Therms	15,511,368	15,746,445	15,848,208	16,010,745	16,171,762	16,407,711	16,467,157	16,666,652	16,736,958	16,955,564
Commercial Therms	20,221,983	20,563,503	20,693,831	20,922,393	21,151,003	21,470,422	21,573,329	21,775,949	21,965,315	22,244,850
Industrial Therms	5,056,441	5,159,196	5,216,238	5,292,693	5,369,973	5,463,680	5,511,033	5,577,553	5,640,286	5,726,155
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	40,789,792	41,489,143	41,758,277	42,226,831	42,692,737	43,341,813	43,551,519	43,960,174	44,342,560	44,946,569
Daily Baseload Therms	29,072	28,919	28,954	29,371	30,235	30,810	30,950	30,960	30,911	31,691
Peak Day Therms	327,333	343,642	347,582	351,392	355,067	346,385	362,393	365,681	368,856	372,332
Therms Per Residential Customer	651	658	657	660	662	668	666	668	669	674
Therms Per Commercial Customer	4,184	4,227	4,227	4,247	4,267	4,305	4,300	4,314	4,326	4,360
Therms Per Industrial Customer	36,971	37,292	37,322	37,503	37,617	37,977	37,948	38,063	38,197	38,391
Residential Customers	23,819	23,971	24,121	24,270	24,418	24,566	24,712	24,857	25,001	25,145
Commercial Customers	4,833	4,864	4,896	4,926	4,957	4,987	5,017	5,047	5,077	5,107
Industrial Customers	137	138	140	141	143	144	145	147	148	149
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	28,789	28,973	29,156	29,337	29,518	29,697	29,874	30,051	30,226	30,401

Zone 20	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.59%	2.02%	0.99%	1.44%	1.43%	1.88%	0.85%	1.32%	1.27%	1.76%
Residential Therms	20,263,384	20,718,601	20,951,966	21,288,256	21,625,659	22,068,332	22,279,090	22,601,332	22,915,281	23,350,807
Commercial Therms	21,878,454	22,286,377	22,488,452	22,787,620	23,087,993	23,496,440	23,680,962	23,974,283	24,260,102	24,665,045
Industrial Therms	1,020,203	1,033,740	1,038,220	1,047,589	1,056,919	1,070,734	1,075,605	1,084,642	1,093,973	1,107,911
Ind., Inst., & Cmcl. Interup. Therms	275,862	277,014	275,829	275,829	275,862	277,014	275,862	275,862	275,829	276,981
Total Core Therms	43,437,903	44,315,733	44,754,467	45,399,294	46,064,433	46,912,520	47,311,519	47,936,118	48,545,155	49,400,743
Daily Baseload Therms	37,405	38,001	38,429	38,325	39,218	40,109	40,591	41,053	41,464	41,244
Peak Day Therms	339,835	352,921	357,889	362,750	367,583	365,353	377,954	382,677	387,352	392,895
Therms Per Residential Customer	558	563	563	566	569	574	573	576	578	583
Therms Per Commercial Customer	4,386	4,429	4,432	4,454	4,477	4,520	4,520	4,542	4,562	4,605
Therms Per Industrial Customer	24,303	24,625	24,732	24,684	24,904	25,229	25,344	25,557	25,777	25,835
Residential Customers	36,335	36,769	37,197	37,619	38,035	38,447	38,853	39,254	39,650	40,042
Commercial Customers	4,988	5,031	5,074	5,116	5,157	5,198	5,239	5,278	5,318	5,356
Industrial Customers	42	42	42	42	42	42	42	42	42	43
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	41,367	41,845	42,316	42,779	43,237	43,690	44,136	44,576	45,012	45,443

Zone 24	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	4,677,373	4,743,156	4,759,202	4,800,207	4,841,852	4,907,886	4,923,342	4,963,689	5,002,941	5,049,297
Commercial Therms	4,465,957	4,536,232	4,560,617	4,608,232	4,656,678	4,728,003	4,752,256	4,799,960	4,846,848	4,919,180
Industrial Therms	734,223	752,619	766,847	783,585	801,064	821,043	836,639	854,937	873,439	894,698
Ind., Inst., & Cmcl. Interup. Therms	868,091	872,356	867,966	867,967	868,091	872,356	868,088	868,090	867,968	872,234
Total Core Therms	10,745,645	10,904,363	10,954,632	11,059,991	11,167,685	11,329,288	11,380,326	11,486,676	11,591,197	11,755,408
Daily Baseload Therms	6,302	6,343	6,409	6,489	6,592	6,629	6,690	6,754	6,823	6,922
Peak Day Therms	86,277	89,140	89,942	90,744	91,544	90,501	93,307	94,108	94,908	95,873
Therms Per Residential Customer	603	609	608	611	613	619	618	620	623	628
Therms Per Commercial Customer	2,852	2,881	2,882	2,897	2,913	2,942	2,943	2,958	2,972	3,002
Therms Per Industrial Customer	24,349	24,772	24,976	25,288	25,507	25,972	26,211	26,531	26,799	27,258
Residential Customers	7,753	7,790	7,826	7,867	7,897	7,932	7,967	8,001	8,036	8,070
Commercial Customers	1,566	1,574	1,583	1,591	1,599	1,607	1,615	1,623	1,631	1,639
Industrial Customers	30	30	31	31	31	32	32	32	33	33
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	9,351	9,395	9,440	9,484	9,528	9,571	9,615	9,657	9,700	9,742

Zone 26	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,040,463	2,096,770	2,135,747	2,183,678	2,232,517	2,289,586	2,328,657	2,376,623	2,423,593	2,481,382
Commercial Therms	4,184,318	4,278,546	4,325,257	4,396,728	4,470,730	4,566,074	4,614,167	4,685,725	4,754,638	4,851,032
Industrial Therms	1,086,555	1,114,976	1,134,375	1,158,613	1,183,700	1,212,520	1,232,357	1,256,657	1,280,041	1,309,222
Ind., Inst., & Cmcl. Interup. Therms	84,263	84,632	84,276	84,268	84,294	84,578	84,285	84,317	84,278	84,578
Total Core Therms	9,395,599	9,574,925	9,679,653	9,823,288	9,971,242	10,152,759	10,259,465	10,403,322	10,542,550	10,726,213
Daily Baseload Therms	9,040	8,950	9,072	9,299	8,400	9,823	9,681	9,739	9,861	7,838
Peak Day Therms	78,434	83,755	84,952	86,149	87,345	84,293	89,860	91,055	92,250	93,572
Therms Per Residential Customer	567	575	579	585	592	600	604	610	616	624
Therms Per Commercial Customer	4,541	4,576	4,577	4,595	4,616	4,652	4,654	4,672	4,690	4,725
Therms Per Industrial Customer	30,390	30,844	31,078	31,652	32,005	32,457	32,900	33,254	33,553	34,231
Residential Customers	3,601	3,645	3,688	3,730	3,772	3,813	3,854	3,894	3,934	3,974
Commercial Customers	1,362	1,372	1,382	1,392	1,402	1,412	1,421	1,431	1,440	1,450
Industrial Customers	36	36	37	37	37	37	37	38	38	38
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	5,000	5,054	5,107	5,159	5,211	5,263	5,314	5,364	5,414	5,463

Zone 30-S	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	28,320,694	28,822,259	29,070,027	29,445,462	29,824,225	30,332,363	30,576,844	30,952,372	31,324,407	31,839,053
Commercial Therms	17,009,504	17,290,461	17,428,466	17,638,707	17,851,390	18,135,929	18,272,846	18,483,139	18,696,902	18,978,824
Industrial Therms	660,840	666,879	667,612	671,145	674,777	681,884	681,858	685,394	688,832	695,210
Ind., Inst., & Cmcl. Interup. Therms	1,592,516	1,598,831	1,592,394	1,592,394	1,592,516	1,598,639	1,592,517	1,592,516	1,592,392	1,598,516
Total Core Therms	47,583,355	48,378,239	48,758,499	49,347,708	49,942,908	50,748,015	51,124,044	51,713,421	52,296,534	53,111,462
Daily Baseload Therms	41,498	42,245	42,777	42,729	43,449	44,206	44,701	45,235	45,771	45,347
Peak Day Therms	359,903	370,413	374,953	379,491	384,026	382,899	393,416	397,951	402,483	407,346
Therms Per Residential Customer	694	701	703	707	711	719	720	724	728	735
Therms Per Commercial Customer	4,072	4,113	4,119	4,143	4,166	4,207	4,213	4,236	4,259	4,299
Therms Per Industrial Customer	23,594	23,817	23,843	23,969	24,099	24,324	24,352	24,478	24,601	24,829
Residential Customers	40,804	41,088	41,370	41,649	41,927	42,203	42,478	42,750	43,021	43,290
Commercial Customers	4,177	4,204	4,231	4,258	4,285	4,311	4,337	4,363	4,389	4,415
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	45,011	45,322	45,631	45,937	46,241	46,544	46,845	47,143	47,440	47,735

**Appendix B
Demand Forecast
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Zone 30-W										
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	40,551,229	61,330,470	61,583,793	62,113,149	62,660,919	63,465,435	63,740,341	64,286,951	64,823,285	65,454,637
Commercial Therms	34,007,686	34,909,755	35,128,253	35,496,302	35,875,361	36,393,643	36,624,648	37,003,672	37,376,837	37,912,554
Industrial Therms	4,437,768	4,518,316	4,549,353	4,636,604	4,705,685	4,789,468	4,843,271	4,913,110	4,982,316	5,049,685
Ind., Inst., & Cmcl. Interup. Therms	79,297	79,565	79,291	79,291	79,297	79,565	79,297	79,297	79,291	79,559
Total Core Therms	99,475,979	100,838,106	101,360,689	102,325,346	103,321,261	104,727,932	105,287,557	106,283,030	107,261,729	108,716,435
Daily Baseload Therms	73,371	74,379	75,061	57,459	64,222	77,115	77,738	78,447	79,172	60,440
Peak Day Therms	778,069	808,151	816,038	823,984	831,994	815,739	847,734	855,945	864,219	872,075
Therms Per Residential Customer	659	664	663	664	666	671	670	672	674	679
Therms Per Commercial Customer	3,049	3,072	3,071	3,082	3,095	3,119	3,119	3,131	3,143	3,169
Therms Per Industrial Customer	19,894	20,103	20,185	20,318	20,465	20,639	20,715	20,899	21,046	21,264
Residential Customers	91,876	92,418	92,957	93,492	94,024	94,555	95,082	95,607	96,129	96,649
Commercial Customers	11,286	11,363	11,440	11,516	11,592	11,668	11,742	11,817	11,891	11,965
Industrial Customers	223	225	226	228	230	232	234	235	237	238
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	103,386	104,007	104,624	105,237	105,847	106,456	107,060	107,660	108,258	108,854
Zone GTN										
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	48,309,208	49,709,022	50,583,352	51,721,499	52,867,103	54,291,132	55,148,794	56,267,769	57,419,028	58,867,642
Commercial Therms	24,120,295	24,566,990	24,758,336	25,078,605	25,403,378	25,856,990	26,046,052	26,366,578	26,682,665	27,143,590
Industrial Therms	3,735,403	3,836,818	3,902,122	3,985,798	4,070,526	4,173,304	4,238,129	4,321,793	4,404,348	4,508,558
Ind., Inst., & Cmcl. Interup. Therms	278,365	279,828	279,292	279,292	279,292	279,292	279,292	279,292	279,292	279,755
Total Core Therms	76,443,272	78,392,659	79,522,103	81,064,193	82,619,373	84,601,254	85,711,341	87,254,506	88,784,332	90,799,546
Daily Baseload Therms	61,737	63,183	64,503	65,693	67,049	67,890	69,081	70,475	71,814	73,249
Peak Day Therms	720,743	747,697	762,575	777,449	792,322	794,268	822,274	837,154	852,034	867,127
Therms Per Residential Customer	833	847	853	862	872	886	890	899	908	922
Therms Per Commercial Customer	3,181	3,218	3,221	3,241	3,261	3,298	3,300	3,320	3,339	3,375
Therms Per Industrial Customer	29,692	30,151	30,307	30,672	31,015	31,493	31,712	32,071	32,406	32,897
Residential Customers	57,971	58,655	59,330	59,997	60,657	61,311	61,956	62,595	63,228	63,855
Commercial Customers	7,582	7,635	7,688	7,739	7,791	7,841	7,892	7,942	7,992	8,042
Industrial Customers	126	127	129	130	131	133	134	135	136	137
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
Total Core Customers	65,680	66,418	67,147	67,867	68,579	69,285	69,983	70,673	71,356	72,035
Zone ME-OR										
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	6,728,055	6,851,026	6,902,599	6,990,308	7,079,644	7,204,205	7,255,489	7,343,292	7,429,378	7,555,883
Commercial Therms	7,178,942	7,287,774	7,327,419	7,402,204	7,478,627	7,588,694	7,628,499	7,703,333	7,776,469	7,888,070
Industrial Therms	1,367,074	1,378,198	1,378,749	1,384,657	1,390,713	1,401,824	1,402,391	1,408,285	1,414,043	1,425,410
Ind., Inst., & Cmcl. Interup. Therms	1,311,051	1,316,381	1,310,733	1,310,734	1,310,734	1,316,381	1,311,051	1,310,734	1,310,734	1,316,064
Total Core Therms	16,585,123	16,833,379	16,919,500	17,087,904	17,260,036	17,511,104	17,597,429	17,765,961	17,930,624	18,185,428
Daily Baseload Therms	14,831	14,993	15,134	15,220	15,431	15,485	15,628	15,781	15,929	16,034
Peak Day Therms	140,452	145,703	147,126	148,548	149,968	147,898	153,085	154,504	155,921	157,626
Therms Per Residential Customer	544	550	550	553	556	562	562	565	568	573
Therms Per Commercial Customer	3,559	3,592	3,591	3,608	3,625	3,658	3,657	3,673	3,689	3,722
Therms Per Industrial Customer	49,906	50,312	50,007	50,070	50,289	50,691	50,383	50,493	50,699	51,107
Residential Customers	12,349	12,442	12,554	12,645	12,735	12,825	12,914	13,002	13,089	13,177
Commercial Customers	2,017	2,029	2,040	2,052	2,063	2,074	2,086	2,097	2,108	2,119
Industrial Customers	27	27	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
Total Core Customers	14,416	14,520	14,623	14,726	14,828	14,929	15,030	15,129	15,227	15,326
Zone ME-WA										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,512,200	7,620,511	7,654,637	7,720,674	7,786,295	7,883,771	7,906,483	7,963,218	8,015,556	8,104,140
Commercial Therms	6,573,689	6,644,322	6,654,981	6,692,140	6,729,220	6,792,074	6,795,259	6,825,844	6,853,114	6,899,535
Industrial Therms	252,628	258,920	262,977	267,889	272,782	278,574	282,045	286,525	290,797	296,187
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
Total Core Therms	14,338,517	14,523,753	14,572,595	14,680,704	14,788,297	14,954,419	14,983,788	15,075,587	15,159,467	15,309,862
Daily Baseload Therms	11,718	11,749	11,771	11,851	11,985	12,122	12,207	12,208	12,204	12,317
Peak Day Therms	162,834	166,652	168,050	169,354	170,622	169,290	172,944	174,053	175,097	176,054
Therms Per Residential Customer	590	595	593	594	596	599	597	598	598	601
Therms Per Commercial Customer	4,623	4,645	4,624	4,623	4,622	4,639	4,615	4,611	4,605	4,618
Therms Per Industrial Customer	11,676	11,847	11,816	11,998	12,026	12,209	12,186	12,186	12,332	12,384
Residential Customers	12,730	12,817	12,903	12,988	13,072	13,156	13,238	13,320	13,400	13,481
Commercial Customers	1,422	1,430	1,439	1,448	1,456	1,464	1,472	1,480	1,488	1,496
Industrial Customers	22	22	22	22	23	23	23	24	24	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
Total Core Customers	14,173	14,249	14,365	14,458	14,551	14,643	14,734	14,824	14,912	15,001
Oregon										
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	59,714,637	61,303,205	62,245,153	63,512,014	64,788,599	66,403,222	67,327,625	68,594,751	69,851,348	71,492,823
Commercial Therms	35,765,194	36,390,995	36,646,373	37,089,041	37,538,683	38,173,687	38,426,807	38,869,871	39,305,981	39,950,840
Industrial Therms	5,836,701	5,961,635	6,047,718	6,154,041	6,262,304	6,396,171	6,477,159	6,585,015	6,691,830	6,828,666
Ind., Inst., & Cmcl. Interup. Therms	2,457,508	2,468,546	2,456,991	2,456,993	2,457,508	2,468,546	2,457,504	2,457,508	2,456,994	2,468,053
Total Core Therms	103,774,039	106,130,401	107,396,235	109,212,088	111,047,093	113,441,644	114,689,095	116,507,143	118,306,153	120,740,382
Daily Baseload Therms	82,870	84,519	86,045	87,402	89,072	90,004	91,399	93,010	94,566	96,225
Peak Day Therms	947,472	982,540	999,643	1,016,741	1,033,835	1,032,648	1,068,665	1,085,765	1,102,863	1,120,626
Therms Per Residential Customer	765	777	781	789	797	809	813	821	828	840
Therms Per Commercial Customer	3,203	3,238	3,240	3,259	3,278	3,313	3,315	3,333	3,351	3,386
Therms Per Industrial Customer	31,837	32,253	32,336	32,623	32,907	33,351	33,491	33,791	34,073	34,529
Residential Customers	78,093	78,906	79,709	80,503	81,288	82,067	82,837	83,599	84,353	85,102
Commercial Customers	11,166	11,238	11,310	11,381	11,452	11,522	11,593	11,662	11,731	11,800
Industrial Customers	183	185	187	189	190	192	193	195	196	198
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
Total Core Customers	89,446	90,333	91,211	92,077	92,935	93,785	94,627	95,460	96,284	97,103

**Appendix B
Demand Forecast
Low Scenario**

Washington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.21%	1.63%	0.70%	1.14%	1.14%	1.54%	0.63%	1.06%	1.01%	1.46%
Residential Therms	137,637,065	139,833,613	140,730,675	142,271,863	143,835,832	146,019,665	146,876,490	148,385,629	149,855,464	152,037,014
Commercial Therms	114,510,106	116,423,655	117,317,508	118,708,109	120,115,608	121,997,502	122,830,659	124,168,815	125,460,111	127,313,483
Industrial Therms	14,224,180	14,474,841	14,610,352	14,803,102	14,998,256	15,242,545	15,371,498	15,554,382	15,730,655	15,970,104
Ind., Inst., & Cmcl. Interup. Therms	2,098,808	2,107,130	2,099,254	2,099,570	2,100,108	2,108,210	2,100,530	2,100,854	2,100,846	2,109,059
Total Core Therms	268,470,149	272,839,239	274,757,789	277,882,644	281,049,804	285,367,911	287,179,186	290,209,680	293,147,076	297,429,659
Daily BaseLoad Therms	213,234	214,134	216,081	195,658	208,420	226,148	226,532	228,427	230,253	209,484
Peak Day Therms	2,122,148	2,211,007	2,235,857	2,260,401	2,284,771	2,243,817	2,334,234	2,358,047	2,381,667	2,406,587
Therms Per Residential Customer	641	646	646	648	651	656	656	658	660	665
Therms Per Commercial Customer	3,874	3,912	3,915	3,934	3,954	3,990	3,991	4,009	4,025	4,060
Therms Per Industrial Customer	25,992	26,224	26,287	26,451	26,606	26,837	26,879	27,041	27,196	27,413
Residential Customers	214,821	216,392	217,949	219,490	221,018	222,538	224,042	225,535	227,016	228,489
Commercial Customers	29,557	29,764	29,969	30,173	30,375	30,575	30,773	30,971	31,166	31,361
Industrial Customers	547	552	556	560	564	568	572	575	578	583
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
Total Core Customers	244,932	246,716	248,481	250,229	251,964	253,688	255,395	257,088	258,768	260,439
System	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.37%	1.81%	0.84%	1.29%	1.29%	1.71%	0.77%	1.21%	1.16%	1.63%
Residential Therms	197,351,692	201,136,818	202,975,828	205,783,877	208,624,430	212,422,877	214,204,123	216,980,379	219,706,812	223,529,837
Commercial Therms	150,275,300	152,814,650	153,963,881	155,797,150	157,654,292	160,171,189	161,257,467	163,038,687	164,766,093	167,264,322
Industrial Therms	20,060,881	20,442,477	20,658,070	20,957,143	21,260,560	21,638,715	21,848,657	22,139,396	22,422,484	22,798,770
Ind., Inst., & Cmcl. Interup. Therms	4,556,316	4,576,696	4,556,244	4,556,563	4,557,615	4,576,776	4,558,034	4,558,360	4,557,940	4,577,112
Total Core Therms	372,244,188	378,969,640	382,154,024	387,098,733	392,096,897	398,809,557	401,868,281	406,716,823	411,453,229	418,170,041
Daily BaseLoad Therms	296,104	298,653	302,127	283,060	297,492	316,152	317,931	321,437	324,818	305,709
Peak Day Therms	3,069,620	3,193,547	3,235,500	3,277,141	3,318,606	3,276,485	3,402,899	3,443,812	3,484,530	3,527,213
Therms Per Residential Customer	1,303	1,316	1,317	1,325	1,333	1,346	1,348	1,356	1,363	1,378
Therms Per Commercial Customer	4,220	4,261	4,257	4,278	4,297	4,339	4,335	4,355	4,372	4,413
Therms Per Industrial Customer	54,016	54,812	55,001	55,498	56,009	56,810	56,994	57,484	57,959	58,767
Residential Customers	292,914	295,299	297,658	299,993	302,307	304,605	306,879	309,134	311,368	313,590
Commercial Customers	40,722	41,002	41,280	41,554	41,827	42,098	42,366	42,633	42,897	43,161
Industrial Customers	731	737	743	748	754	760	765	770	775	780
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
Total Core Customers	334,378	337,049	339,692	342,306	344,899	347,473	350,022	352,548	355,051	357,542