

Appendix B-1

Demand Forecast Model Escalation Rates

Cascade Natural Gas
2010 IRP Demand Forecast
Economic Indicators

PROJECTED EMPLOYMENT GROWTH

	ADAMS, WA	BENTON, WA	CHELAN, WA	COWLITZ, WA	DOUGLAS, WA	FRANKLIN, WA	GRANT, WA	GRAYS HARBOR, WA	ISLAND, WA	KITSAP, WA	MASON, WA	SKAGIT, WA	SNOHOMISH, WA	WALLA WALLA, WA	WHATCOM, WA	YAKIMA, WA
HIGH 2010	-0.45%	0.63%	-0.03%	-0.37%	0.38%	0.17%	0.01%	-0.08%	0.09%	0.48%	1.12%	0.96%	1.19%	-0.19%	1.14%	-0.60%
HIGH 2011	0.92%	2.00%	1.34%	0.72%	1.22%	1.64%	1.55%	0.99%	1.51%	1.77%	1.77%	1.85%	1.69%	0.60%	2.10%	1.07%
HIGH 2012	0.91%	2.01%	1.34%	0.71%	1.24%	1.65%	1.57%	1.00%	1.51%	1.77%	1.82%	1.84%	1.69%	0.62%	2.10%	1.07%
HIGH 2013	0.98%	2.00%	1.32%	0.71%	1.25%	1.67%	1.56%	1.01%	1.50%	1.77%	1.79%	1.84%	1.69%	0.60%	2.10%	1.06%
HIGH 2014	0.92%	2.01%	1.34%	0.69%	1.28%	1.64%	1.57%	1.00%	1.51%	1.77%	1.81%	1.84%	1.70%	0.59%	2.10%	1.06%
HIGH 2015	1.04%	2.00%	1.31%	0.70%	1.26%	1.66%	1.57%	1.00%	1.51%	1.77%	1.79%	1.85%	1.70%	0.61%	2.10%	1.06%
HIGH 2016	0.93%	2.00%	1.32%	0.69%	1.24%	1.64%	1.58%	1.01%	1.52%	1.77%	1.80%	1.85%	1.70%	0.60%	2.09%	1.06%
HIGH 2017	0.98%	2.00%	1.30%	0.69%	1.23%	1.66%	1.59%	0.98%	1.53%	1.77%	1.82%	1.85%	1.71%	0.58%	2.10%	1.05%
HIGH 2018	0.90%	2.00%	1.30%	0.69%	1.26%	1.67%	1.60%	0.97%	1.52%	1.77%	1.79%	1.86%	1.71%	0.59%	2.10%	1.05%
HIGH 2019	0.98%	2.00%	1.29%	0.69%	1.21%	1.66%	1.60%	0.99%	1.52%	1.77%	1.79%	1.86%	1.71%	0.60%	2.10%	1.05%
HIGH 2020	1.00%	2.00%	1.28%	0.67%	1.22%	1.65%	1.60%	0.99%	1.55%	1.77%	1.80%	1.86%	1.71%	0.59%	2.10%	1.04%
HIGH 2021	0.96%	2.00%	1.28%	0.68%	1.27%	1.65%	1.61%	0.97%	1.54%	1.77%	1.81%	1.87%	1.72%	0.59%	2.09%	1.04%
HIGH 2022	1.01%	2.00%	1.28%	0.68%	1.25%	1.66%	1.62%	0.95%	1.54%	1.77%	1.79%	1.87%	1.72%	0.59%	2.10%	1.03%
HIGH 2023	0.94%	2.00%	1.26%	0.67%	1.23%	1.66%	1.62%	0.96%	1.53%	1.77%	1.77%	1.87%	1.72%	0.58%	2.10%	1.03%
HIGH 2024	1.01%	1.99%	1.26%	0.65%	1.21%	1.66%	1.64%	0.98%	1.54%	1.77%	1.81%	1.87%	1.72%	0.57%	2.10%	1.02%
HIGH 2025	0.96%	1.99%	1.25%	0.66%	1.26%	1.67%	1.65%	0.95%	1.55%	1.77%	1.78%	1.88%	1.72%	0.58%	2.10%	1.02%
HIGH 2026	0.99%	1.99%	1.25%	0.66%	1.21%	1.66%	1.64%	0.96%	1.54%	1.77%	1.79%	1.87%	1.73%	0.57%	2.09%	1.02%
HIGH 2027	0.99%	1.98%	1.23%	0.65%	1.25%	1.66%	1.65%	0.95%	1.54%	1.77%	1.79%	1.87%	1.73%	0.59%	2.10%	1.02%
HIGH 2028	1.02%	1.99%	1.24%	0.64%	1.22%	1.66%	1.65%	0.94%	1.55%	1.77%	1.78%	1.88%	1.73%	0.57%	2.10%	1.01%
HIGH 2029	0.96%	1.99%	1.22%	0.64%	1.23%	1.67%	1.67%	0.94%	1.55%	1.78%	1.79%	1.88%	1.73%	0.58%	2.10%	1.01%
HIGH 2030	1.02%	1.98%	1.21%	0.65%	1.25%	1.66%	1.68%	0.94%	1.56%	1.78%	1.79%	1.89%	1.73%	0.58%	2.09%	1.00%
MID 2010	-0.73%	0.17%	-0.38%	-0.66%	-0.04%	-0.22%	-0.35%	-0.42%	-0.28%	0.05%	0.57%	0.45%	0.64%	-0.51%	0.59%	-0.85%
MID 2011	0.77%	1.67%	1.12%	0.60%	1.01%	1.37%	1.29%	0.83%	1.26%	1.47%	1.48%	1.54%	1.41%	0.50%	1.75%	0.89%
MID 2012	0.76%	1.67%	1.12%	0.59%	1.03%	1.37%	1.31%	0.84%	1.26%	1.47%	1.52%	1.53%	1.41%	0.51%	1.75%	0.89%
MID 2013	0.82%	1.67%	1.10%	0.59%	1.04%	1.39%	1.30%	0.84%	1.25%	1.47%	1.49%	1.54%	1.41%	0.50%	1.75%	0.89%
MID 2014	0.77%	1.67%	1.11%	0.57%	1.06%	1.37%	1.31%	0.83%	1.26%	1.48%	1.51%	1.54%	1.41%	0.49%	1.75%	0.89%
MID 2015	0.86%	1.67%	1.09%	0.58%	1.05%	1.39%	1.31%	0.83%	1.26%	1.48%	1.49%	1.54%	1.42%	0.51%	1.75%	0.88%
MID 2016	0.78%	1.67%	1.10%	0.58%	1.03%	1.37%	1.31%	0.84%	1.27%	1.47%	1.50%	1.54%	1.42%	0.50%	1.75%	0.88%
MID 2017	0.82%	1.67%	1.09%	0.58%	1.02%	1.38%	1.33%	0.82%	1.27%	1.48%	1.52%	1.54%	1.42%	0.48%	1.75%	0.87%
MID 2018	0.75%	1.67%	1.08%	0.57%	1.05%	1.39%	1.33%	0.81%	1.27%	1.47%	1.49%	1.55%	1.42%	0.49%	1.75%	0.88%
MID 2019	0.82%	1.67%	1.07%	0.57%	1.01%	1.38%	1.34%	0.82%	1.27%	1.48%	1.49%	1.55%	1.42%	0.50%	1.75%	0.87%
MID 2020	0.83%	1.67%	1.07%	0.56%	1.01%	1.38%	1.33%	0.83%	1.29%	1.47%	1.50%	1.55%	1.43%	0.49%	1.75%	0.86%
MID 2021	0.80%	1.66%	1.06%	0.56%	1.06%	1.38%	1.34%	0.81%	1.28%	1.48%	1.51%	1.56%	1.43%	0.49%	1.75%	0.86%
MID 2022	0.85%	1.66%	1.06%	0.57%	1.04%	1.38%	1.35%	0.79%	1.28%	1.48%	1.49%	1.55%	1.43%	0.50%	1.75%	0.86%
MID 2023	0.78%	1.67%	1.05%	0.56%	1.02%	1.38%	1.35%	0.80%	1.27%	1.48%	1.48%	1.56%	1.43%	0.48%	1.75%	0.86%
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MID 2028	0.85%	1.66%	1.03%	0.53%	1.02%	1.38%	1.38%	0.78%	1.29%	1.48%	1.48%	1.57%	1.44%	0.47%	1.75%	0.84%
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LOW 2010	-1.05%	-0.36%	-0.78%	-1.00%	-0.52%	-0.66%	-0.76%	-0.82%	-0.71%	-0.46%	-0.05%	-0.15%	0.00%	-0.88%	-0.03%	-1.15%
LOW 2011	0.59%	1.29%	0.86%	0.46%	0.78%	1.05%	0.99%	0.64%	0.97%	1.13%	1.14%	1.18%	1.08%	0.38%	1.35%	0.69%
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LOW 2019	0.63%	1.28%	0.83%	0.44%	0.78%	1.06%	1.03%	0.63%	0.98%	1.14%	1.15%	1.19%	1.10%	0.38%	1.35%	0.67%
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LOW 2021	0.62%	1.28%	0.82%	0.43%	0.81%	1.06%	1.03%	0.62%	0.99%	1.14%	1.16%	1.20%	1.10%	0.38%	1.34%	0.67%
LOW 2022	0.65%	1.28%	0.82%	0.44%	0.80%	1.07%	1.04%	0.61%	0.99%	1.14%	1.15%	1.20%	1.10%	0.38%	1.34%	0.66%
LOW 2023	0.60%	1.28%	0.81%	0.43%	0.79%	1.07%	1.04%	0.62%	0.98%	1.14%	1.14%	1.20%	1.10%	0.37%	1.35%	0.66%
LOW 2024	0.65%	1.28%	0.81%	0.42%	0.77%	1.06%	1.05%	0.63%	0.99%	1.14%	1.16%	1.20%	1.11%	0.37%	1.35%	0.66%
LOW 2025	0.61%	1.28%	0.80%	0.42%	0.81%	1.07%	1.06%	0.61%	1.00%	1.14%	1.14%	1.20%	1.11%	0.37%	1.34%	0.66%
LOW 2026	0.64%	1.28%	0.80%	0.42%	0.78%	1.06%	1.05%	0.62%	0.99%	1.14%	1.15%	1.20%	1.11%	0.37%	1.34%	0.65%
LOW 2027	0.63%	1.27%	0.79%	0.42%	0.80%	1.06%	1.06%	0.61%	0.99%	1.14%	1.15%	1.20%	1.11%	0.38%	1.35%	0.65%
LOW 2028	0.66%	1.28%	0.79%	0.41%	0.79%	1.06%	1.06%	0.60%	1.00%	1.14%	1.14%	1.21%	1.11%	0.37%	1.35%	0.65%
LOW 2029	0.61%	1.27%	0.79%	0.41%	0.79%	1.07%	1.07%	0.60%	1.00%	1.14%	1.15%	1.21%	1.11%	0.37%	1.34%	0.65%
LOW 2030	0.65%	1.27%	0.77%	0.42%	0.80%	1.07%	1.07%	0.60%	1.00%	1.14%	1.15%	1.21%	1.11%	0.37%	1.34%	0.64%

Cascade Natural Gas
2010 IRP Demand Forecast
Economic Indicators

PROJECTED HOUSEHOLDS GROWTH

	ADAMS, WA	BENTON, WA	CHELAN, WA	COWLITZ, WA	DOUGLAS, WA	FRANKLIN, WA	GRANT, WA	GRAYS HARBOR, WA	ISLAND, WA	KITSAP, WA	MASON, WA	SKAGIT, WA	SNOHOMISH, WA	WALLA WALLA, WA	WHATCOM, WA	YAKIMA, WA	
HIGH	2010	-1.07%	0.62%	-0.52%	-1.13%	-0.14%	0.53%	0.08%	-1.52%	-0.13%	0.27%	0.46%	0.37%	0.19%	-1.18%	0.88%	-1.10%
	2011	1.05%	2.74%	1.62%	1.00%	2.00%	2.65%	2.20%	0.60%	1.99%	2.40%	2.59%	2.49%	2.32%	0.96%	2.99%	1.03%
	2012	1.04%	2.69%	1.60%	0.99%	1.97%	2.58%	2.16%	0.59%	1.95%	2.35%	2.53%	2.43%	2.28%	0.94%	2.92%	1.02%
	2013	1.01%	2.62%	1.56%	0.96%	1.93%	2.50%	2.11%	0.58%	1.91%	2.30%	2.47%	2.36%	2.22%	0.93%	2.84%	0.99%
	2014	0.99%	2.56%	1.52%	0.93%	1.89%	2.43%	2.05%	0.55%	1.86%	2.25%	2.41%	2.30%	2.17%	0.90%	2.76%	0.97%
	2015	0.96%	2.50%	1.49%	0.91%	1.85%	2.36%	2.00%	0.53%	1.81%	2.19%	2.34%	2.24%	2.11%	0.88%	2.68%	0.94%
	2016	0.91%	2.43%	1.45%	0.88%	1.81%	2.28%	1.95%	0.51%	1.77%	2.14%	2.28%	2.17%	2.06%	0.85%	2.61%	0.91%
	2017	0.90%	2.37%	1.42%	0.85%	1.77%	2.22%	1.90%	0.49%	1.72%	2.08%	2.22%	2.11%	2.01%	0.82%	2.53%	0.89%
	2018	0.86%	2.32%	1.38%	0.82%	1.73%	2.15%	1.85%	0.46%	1.68%	2.03%	2.15%	2.05%	1.95%	0.79%	2.46%	0.86%
	2019	0.84%	2.26%	1.35%	0.80%	1.70%	2.09%	1.81%	0.44%	1.63%	1.98%	2.10%	1.99%	1.90%	0.76%	2.40%	0.83%
	2020	0.83%	2.22%	1.32%	0.77%	1.67%	2.03%	1.76%	0.42%	1.60%	1.94%	2.05%	1.94%	1.86%	0.74%	2.34%	0.81%
	2021	0.79%	2.17%	1.30%	0.76%	1.64%	1.98%	1.73%	0.41%	1.57%	1.90%	2.00%	1.89%	1.82%	0.72%	2.28%	0.80%
	2022	0.76%	2.12%	1.26%	0.74%	1.60%	1.92%	1.68%	0.39%	1.53%	1.85%	1.95%	1.84%	1.78%	0.68%	2.22%	0.77%
	2023	0.74%	2.07%	1.24%	0.71%	1.58%	1.86%	1.64%	0.37%	1.49%	1.80%	1.89%	1.79%	1.73%	0.64%	2.16%	0.75%
	2024	0.72%	2.03%	1.21%	0.69%	1.54%	1.82%	1.60%	0.35%	1.45%	1.76%	1.84%	1.75%	1.69%	0.61%	2.11%	0.73%
2025	0.70%	1.98%	1.18%	0.66%	1.51%	1.76%	1.56%	0.33%	1.42%	1.72%	1.79%	1.70%	1.65%	0.57%	2.05%	0.71%	
2026	0.66%	1.93%	1.14%	0.64%	1.47%	1.71%	1.51%	0.31%	1.38%	1.67%	1.74%	1.65%	1.60%	0.55%	2.00%	0.68%	
2027	0.63%	1.89%	1.12%	0.62%	1.45%	1.66%	1.48%	0.29%	1.35%	1.64%	1.70%	1.61%	1.57%	0.52%	1.95%	0.66%	
2028	0.60%	1.85%	1.10%	0.60%	1.42%	1.62%	1.44%	0.28%	1.32%	1.60%	1.66%	1.56%	1.53%	0.49%	1.90%	0.64%	
2029	0.59%	1.81%	1.07%	0.58%	1.39%	1.57%	1.41%	0.26%	1.29%	1.56%	1.61%	1.53%	1.49%	0.46%	1.85%	0.62%	
2030	0.55%	1.78%	1.05%	0.56%	1.37%	1.53%	1.37%	0.25%	1.26%	1.53%	1.57%	1.49%	1.46%	0.45%	1.81%	0.61%	
MID	2010	-1.20%	0.28%	-0.72%	-1.26%	-0.38%	0.21%	-0.20%	-1.60%	-0.38%	-0.03%	0.14%	0.06%	-0.09%	-1.30%	0.51%	-1.23%
	2011	0.92%	2.41%	1.42%	0.88%	1.75%	2.32%	1.93%	0.53%	1.75%	2.10%	2.27%	2.18%	2.04%	0.84%	2.62%	0.90%
	2012	0.91%	2.36%	1.40%	0.86%	1.73%	2.26%	1.89%	0.52%	1.71%	2.06%	2.22%	2.13%	2.00%	0.83%	2.56%	0.89%
	2013	0.89%	2.30%	1.37%	0.84%	1.69%	2.20%	1.85%	0.50%	1.68%	2.02%	2.17%	2.07%	1.95%	0.82%	2.49%	0.87%
	2014	0.86%	2.25%	1.34%	0.82%	1.66%	2.13%	1.80%	0.49%	1.63%	1.97%	2.11%	2.02%	1.90%	0.79%	2.42%	0.85%
	2015	0.84%	2.19%	1.31%	0.80%	1.62%	2.07%	1.76%	0.47%	1.59%	1.92%	2.06%	1.96%	1.85%	0.77%	2.35%	0.83%
	2016	0.80%	2.14%	1.27%	0.77%	1.59%	2.00%	1.71%	0.44%	1.55%	1.87%	2.00%	1.90%	1.80%	0.75%	2.29%	0.80%
	2017	0.79%	2.08%	1.24%	0.74%	1.55%	1.95%	1.67%	0.43%	1.51%	1.83%	1.95%	1.85%	1.76%	0.72%	2.22%	0.78%
	2018	0.75%	2.03%	1.21%	0.72%	1.52%	1.88%	1.62%	0.40%	1.47%	1.78%	1.89%	1.80%	1.71%	0.69%	2.16%	0.75%
	2019	0.73%	1.98%	1.19%	0.70%	1.49%	1.83%	1.58%	0.39%	1.43%	1.74%	1.84%	1.75%	1.67%	0.66%	2.10%	0.73%
	2020	0.73%	1.94%	1.16%	0.68%	1.46%	1.78%	1.55%	0.37%	1.40%	1.70%	1.80%	1.70%	1.63%	0.65%	2.05%	0.71%
	2021	0.69%	1.90%	1.14%	0.66%	1.44%	1.74%	1.51%	0.36%	1.37%	1.66%	1.75%	1.66%	1.60%	0.63%	2.00%	0.70%
	2022	0.67%	1.86%	1.11%	0.65%	1.41%	1.69%	1.48%	0.34%	1.34%	1.62%	1.71%	1.62%	1.56%	0.59%	1.95%	0.68%
	2023	0.65%	1.82%	1.08%	0.62%	1.38%	1.64%	1.44%	0.32%	1.31%	1.58%	1.66%	1.57%	1.52%	0.56%	1.90%	0.66%
	2024	0.63%	1.78%	1.06%	0.60%	1.35%	1.59%	1.40%	0.31%	1.28%	1.54%	1.61%	1.53%	1.48%	0.54%	1.85%	0.64%
2025	0.61%	1.74%	1.03%	0.58%	1.33%	1.55%	1.37%	0.29%	1.24%	1.51%	1.57%	1.49%	1.45%	0.50%	1.80%	0.62%	
2026	0.57%	1.70%	1.00%	0.56%	1.29%	1.50%	1.33%	0.27%	1.21%	1.47%	1.53%	1.45%	1.41%	0.48%	1.75%	0.60%	
2027	0.56%	1.66%	0.98%	0.54%	1.27%	1.46%	1.30%	0.26%	1.19%	1.44%	1.49%	1.41%	1.37%	0.46%	1.71%	0.58%	
2028	0.52%	1.63%	0.96%	0.53%	1.25%	1.42%	1.27%	0.24%	1.16%	1.40%	1.45%	1.37%	1.34%	0.43%	1.67%	0.56%	
2029	0.52%	1.59%	0.94%	0.51%	1.22%	1.38%	1.24%	0.23%	1.13%	1.37%	1.41%	1.34%	1.31%	0.41%	1.63%	0.55%	
2030	0.49%	1.56%	0.92%	0.49%	1.20%	1.34%	1.21%	0.22%	1.10%	1.34%	1.38%	1.30%	1.28%	0.39%	1.59%	0.53%	
LOW	2010	-1.25%	0.16%	-0.79%	-1.30%	-0.47%	0.09%	-0.29%	-1.63%	-0.47%	-0.13%	0.03%	-0.05%	-0.19%	-1.34%	0.37%	-1.27%
	2011	0.88%	2.29%	1.35%	0.83%	1.66%	2.21%	1.83%	0.50%	1.66%	2.00%	2.16%	2.07%	1.93%	0.80%	2.49%	0.86%
	2012	0.87%	2.24%	1.33%	0.82%	1.64%	2.15%	1.80%	0.49%	1.63%	1.96%	2.11%	2.03%	1.90%	0.79%	2.43%	0.85%
	2013	0.85%	2.19%	1.30%	0.80%	1.61%	2.09%	1.76%	0.48%	1.59%	1.92%	2.06%	1.97%	1.85%	0.78%	2.36%	0.83%
	2014	0.82%	2.13%	1.27%	0.78%	1.58%	2.03%	1.71%	0.46%	1.55%	1.87%	2.01%	1.92%	1.81%	0.75%	2.30%	0.81%
	2015	0.80%	2.08%	1.24%	0.76%	1.54%	1.97%	1.67%	0.44%	1.51%	1.83%	1.95%	1.86%	1.76%	0.73%	2.24%	0.78%
	2016	0.76%	2.03%	1.21%	0.73%	1.51%	1.90%	1.63%	0.42%	1.47%	1.78%	1.90%	1.81%	1.71%	0.71%	2.17%	0.76%
	2017	0.75%	1.98%	1.18%	0.71%	1.48%	1.85%	1.58%	0.40%	1.43%	1.74%	1.85%	1.76%	1.67%	0.68%	2.11%	0.74%
	2018	0.72%	1.93%	1.15%	0.68%	1.44%	1.79%	1.54%	0.38%	1.40%	1.69%	1.80%	1.71%	1.63%	0.65%	2.05%	0.71%
	2019	0.70%	1.89%	1.13%	0.66%	1.41%	1.74%	1.50%	0.37%	1.36%	1.65%	1.75%	1.66%	1.59%	0.63%	2.00%	0.70%
	2020	0.69%	1.85%	1.10%	0.65%	1.39%	1.69%	1.47%	0.35%	1.33%	1.61%	1.71%	1.62%	1.55%	0.61%	1.95%	0.68%
	2021	0.66%	1.81%	1.08%	0.63%	1.37%	1.65%	1.44%	0.34%	1.30%	1.58%	1.66%	1.58%	1.52%	0.60%	1.90%	0.66%
	2022	0.64%	1.77%	1.05%	0.61%	1.34%	1.60%	1.40%	0.32%	1.27%	1.54%	1.62%	1.54%	1.48%	0.56%	1.85%	0.65%
	2023	0.62%	1.73%	1.03%	0.59%	1.31%	1.55%	1.37%	0.30%	1.24%	1.50%	1.58%	1.49%	1.44%	0.53%	1.80%	0.63%
	2024	0.60%	1.69%	1.01%	0.57%	1.28%	1.51%	1.33%	0.29%	1.21%	1.47%	1.53%	1.46%	1.41%	0.51%	1.76%	0.61%
2025	0.58%	1.65%	0.98%	0.55%	1.26%	1.47%	1.30%	0.28%	1.18%	1.43%	1.49%	1.42%	1.37%	0.48%	1.71%	0.59%	
2026	0.55%	1.61%	0.95%	0.53%	1.23%	1.42%	1.26%	0.26%	1.15%	1.39%	1.45%	1.38%	1.34%	0.46%	1.66%	0.57%	
2027	0.53%	1.58%	0.94%	0.52%	1.21%	1.39%	1.23%	0.24%	1.13%	1.36%	1.41%	1.34%	1.31%	0.43%	1.62%	0.55%	
2028	0.50%	1.54%	0.91%	0.50%	1.19%	1.35%	1.20%	0.23%	1.10%	1.33%	1.38%	1.30%	1.27%	0.41%	1.58%	0.54%	
2029	0.49%	1.51%	0.89%	0.48%	1.16%	1.31%	1.17%	0.22%	1.07%	1.30%	1.34%	1.27%	1.24%	0.39%	1.54%	0.52%	
2030	0.46%	1.48%	0.87%	0.47%	1.14%	1.27%	1.15%	0.21%	1.05%	1.27%	1.31%	1.24%	1.21%	0.37%	1.51%	0.50%	

Cascade Natural Gas
2010 IRP Demand Forecast
Economic Indicators

PROJECTED INCOME GROWTH

	ADAMS, WA	BENTON, WA	CHELAN, WA	COWLITZ, WA	DOUGLAS, WA	FRANKLIN, WA	GRANT, WA	GRAYS HARBOR, WA	ISLAND, WA	KITSAP, WA	MASON, WA	SKAGIT, WA	SNOHOMISH, WA	WALLA WALLA, WA	WHATCOM, WA	YAKIMA, WA	
HIGH	2010	-3.41%	-1.78%	-2.05%	-1.28%	-1.59%	-4.79%	-1.80%	-1.58%	-1.54%	-2.74%	-1.92%	-1.47%	-1.70%	-2.11%	-2.79%	
HIGH	2011	0.85%	0.47%	0.61%	0.76%	0.16%	0.15%	0.16%	1.46%	0.92%	0.72%	0.62%	0.69%	0.40%	0.64%	0.58%	0.62%
HIGH	2012	1.04%	0.57%	0.78%	0.81%	0.36%	0.39%	0.42%	1.51%	0.95%	0.76%	0.68%	0.79%	0.44%	0.78%	0.70%	0.87%
HIGH	2013	1.18%	0.66%	0.91%	0.87%	0.50%	0.57%	0.60%	1.55%	1.00%	0.81%	0.75%	0.89%	0.50%	0.87%	0.80%	1.04%
HIGH	2014	1.28%	0.73%	1.00%	0.92%	0.61%	0.70%	0.73%	1.60%	1.05%	0.86%	0.82%	0.98%	0.57%	0.94%	0.89%	1.16%
HIGH	2015	1.36%	0.80%	1.07%	0.96%	0.69%	0.82%	0.84%	1.63%	1.10%	0.91%	0.88%	1.06%	0.63%	1.01%	0.97%	1.25%
HIGH	2016	1.44%	0.87%	1.13%	1.01%	0.76%	0.93%	0.93%	1.68%	1.15%	0.96%	0.95%	1.13%	0.70%	1.05%	1.05%	1.32%
HIGH	2017	1.48%	0.94%	1.19%	1.05%	0.83%	1.02%	1.01%	1.71%	1.20%	1.01%	1.01%	1.20%	0.76%	1.10%	1.13%	1.39%
HIGH	2018	1.55%	1.00%	1.24%	1.09%	0.89%	1.10%	1.09%	1.75%	1.25%	1.06%	1.07%	1.27%	0.82%	1.15%	1.20%	1.44%
HIGH	2019	1.60%	1.05%	1.28%	1.13%	0.94%	1.18%	1.15%	1.78%	1.29%	1.11%	1.13%	1.33%	0.88%	1.19%	1.26%	1.49%
HIGH	2020	1.61%	1.10%	1.32%	1.17%	0.98%	1.25%	1.21%	1.81%	1.33%	1.15%	1.17%	1.38%	0.93%	1.22%	1.32%	1.53%
HIGH	2021	1.68%	1.15%	1.35%	1.20%	1.02%	1.31%	1.26%	1.83%	1.37%	1.19%	1.23%	1.43%	0.98%	1.25%	1.37%	1.57%
HIGH	2022	1.71%	1.19%	1.39%	1.23%	1.06%	1.37%	1.32%	1.86%	1.41%	1.23%	1.27%	1.49%	1.03%	1.28%	1.43%	1.60%
HIGH	2023	1.75%	1.24%	1.42%	1.27%	1.10%	1.44%	1.37%	1.89%	1.45%	1.27%	1.32%	1.54%	1.08%	1.31%	1.48%	1.64%
HIGH	2024	1.77%	1.28%	1.45%	1.30%	1.14%	1.49%	1.42%	1.91%	1.48%	1.30%	1.37%	1.59%	1.13%	1.34%	1.53%	1.67%
HIGH	2025	1.80%	1.32%	1.49%	1.34%	1.17%	1.54%	1.47%	1.94%	1.52%	1.34%	1.41%	1.63%	1.18%	1.38%	1.58%	1.71%
HIGH	2026	1.85%	1.37%	1.52%	1.37%	1.21%	1.60%	1.52%	1.97%	1.56%	1.38%	1.45%	1.68%	1.22%	1.41%	1.63%	1.74%
HIGH	2027	1.87%	1.41%	1.54%	1.40%	1.24%	1.64%	1.56%	1.99%	1.59%	1.41%	1.49%	1.73%	1.26%	1.43%	1.68%	1.77%
HIGH	2028	1.91%	1.44%	1.57%	1.43%	1.26%	1.69%	1.60%	2.00%	1.62%	1.45%	1.52%	1.77%	1.30%	1.46%	1.72%	1.79%
HIGH	2029	1.91%	1.47%	1.59%	1.45%	1.29%	1.74%	1.63%	2.02%	1.65%	1.47%	1.57%	1.80%	1.35%	1.49%	1.76%	1.81%
HIGH	2030	1.95%	1.51%	1.61%	1.48%	1.32%	1.78%	1.67%	2.04%	1.68%	1.50%	1.59%	1.84%	1.38%	1.50%	1.80%	1.84%
MID	2010	-3.19%	-1.84%	-2.07%	-1.43%	-1.68%	-4.35%	-3.25%	-1.86%	-1.67%	-1.64%	-2.64%	-1.96%	-1.58%	-1.77%	-2.12%	-2.68%
MID	2011	0.71%	0.39%	0.51%	0.64%	0.13%	0.12%	0.13%	1.22%	0.76%	0.60%	0.51%	0.57%	0.33%	0.54%	0.48%	0.51%
MID	2012	0.87%	0.47%	0.65%	0.68%	0.30%	0.33%	0.35%	1.26%	0.79%	0.63%	0.57%	0.66%	0.37%	0.65%	0.58%	0.73%
MID	2013	0.98%	0.55%	0.76%	0.72%	0.42%	0.48%	0.50%	1.29%	0.83%	0.67%	0.63%	0.74%	0.42%	0.72%	0.67%	0.87%
MID	2014	1.07%	0.61%	0.83%	0.76%	0.51%	0.59%	0.61%	1.33%	0.87%	0.72%	0.68%	0.82%	0.47%	0.79%	0.74%	0.96%
MID	2015	1.13%	0.67%	0.89%	0.80%	0.57%	0.69%	0.70%	1.36%	0.92%	0.76%	0.74%	0.88%	0.53%	0.84%	0.81%	1.04%
MID	2016	1.20%	0.73%	0.94%	0.84%	0.63%	0.77%	0.77%	1.40%	0.96%	0.80%	0.79%	0.94%	0.58%	0.88%	0.88%	1.10%
MID	2017	1.24%	0.78%	0.99%	0.88%	0.69%	0.85%	0.84%	1.43%	1.00%	0.85%	0.84%	1.00%	0.63%	0.92%	0.94%	1.16%
MID	2018	1.29%	0.83%	1.03%	0.91%	0.74%	0.92%	0.91%	1.46%	1.04%	0.89%	0.89%	1.06%	0.69%	0.96%	1.00%	1.20%
MID	2019	1.33%	0.88%	1.06%	0.95%	0.78%	0.98%	0.96%	1.48%	1.08%	0.92%	0.94%	1.11%	0.73%	0.99%	1.05%	1.24%
MID	2020	1.35%	0.92%	1.10%	0.97%	0.82%	1.04%	1.01%	1.50%	1.11%	0.96%	0.98%	1.15%	0.77%	1.02%	1.10%	1.28%
MID	2021	1.40%	0.96%	1.13%	1.00%	0.85%	1.09%	1.05%	1.53%	1.14%	0.99%	1.02%	1.20%	0.81%	1.04%	1.14%	1.31%
MID	2022	1.42%	0.99%	1.16%	1.03%	0.88%	1.14%	1.10%	1.55%	1.17%	1.02%	1.06%	1.24%	0.86%	1.07%	1.19%	1.34%
MID	2023	1.46%	1.03%	1.18%	1.06%	0.91%	1.20%	1.14%	1.58%	1.20%	1.06%	1.10%	1.28%	0.90%	1.10%	1.23%	1.37%
MID	2024	1.48%	1.07%	1.21%	1.09%	0.95%	1.24%	1.18%	1.59%	1.24%	1.09%	1.14%	1.32%	0.94%	1.12%	1.28%	1.40%
MID	2025	1.50%	1.10%	1.24%	1.12%	0.98%	1.29%	1.22%	1.61%	1.27%	1.12%	1.17%	1.36%	0.98%	1.15%	1.32%	1.42%
MID	2026	1.54%	1.14%	1.27%	1.15%	1.01%	1.33%	1.27%	1.64%	1.30%	1.15%	1.21%	1.40%	1.02%	1.17%	1.36%	1.45%
MID	2027	1.56%	1.17%	1.28%	1.17%	1.03%	1.37%	1.30%	1.66%	1.32%	1.18%	1.25%	1.44%	1.05%	1.19%	1.40%	1.47%
MID	2028	1.59%	1.20%	1.31%	1.19%	1.05%	1.41%	1.33%	1.67%	1.35%	1.21%	1.27%	1.47%	1.09%	1.22%	1.43%	1.49%
MID	2029	1.59%	1.23%	1.33%	1.21%	1.08%	1.45%	1.36%	1.69%	1.38%	1.23%	1.30%	1.50%	1.12%	1.24%	1.47%	1.51%
MID	2030	1.62%	1.26%	1.34%	1.23%	1.10%	1.48%	1.39%	1.70%	1.40%	1.25%	1.32%	1.53%	1.15%	1.25%	1.50%	1.53%
LOW	2010	-2.95%	-1.91%	-2.08%	-1.59%	-1.78%	-3.84%	-3.00%	-1.92%	-1.78%	-1.75%	-2.52%	-2.00%	-1.71%	-1.85%	-2.12%	-2.55%
LOW	2011	0.55%	0.30%	0.39%	0.49%	0.10%	0.09%	0.10%	0.94%	0.59%	0.47%	0.40%	0.44%	0.26%	0.41%	0.37%	0.40%
LOW	2012	0.67%	0.37%	0.50%	0.52%	0.23%	0.25%	0.27%	0.97%	0.61%	0.49%	0.44%	0.51%	0.28%	0.50%	0.45%	0.56%
LOW	2013	0.76%	0.42%	0.58%	0.56%	0.32%	0.37%	0.38%	1.00%	0.64%	0.52%	0.48%	0.57%	0.32%	0.56%	0.51%	0.67%
LOW	2014	0.82%	0.47%	0.64%	0.59%	0.39%	0.45%	0.47%	1.02%	0.67%	0.55%	0.53%	0.63%	0.36%	0.61%	0.57%	0.74%
LOW	2015	0.87%	0.52%	0.68%	0.62%	0.44%	0.53%	0.54%	1.05%	0.71%	0.58%	0.57%	0.68%	0.40%	0.65%	0.63%	0.80%
LOW	2016	0.93%	0.56%	0.72%	0.65%	0.49%	0.59%	0.60%	1.07%	0.74%	0.62%	0.61%	0.73%	0.45%	0.67%	0.68%	0.85%
LOW	2017	0.95%	0.60%	0.76%	0.68%	0.53%	0.65%	0.65%	1.10%	0.77%	0.65%	0.65%	0.77%	0.49%	0.71%	0.72%	0.89%
LOW	2018	0.99%	0.64%	0.79%	0.70%	0.57%	0.71%	0.70%	1.12%	0.80%	0.68%	0.69%	0.81%	0.53%	0.74%	0.77%	0.93%
LOW	2019	1.03%	0.68%	0.82%	0.73%	0.60%	0.76%	0.74%	1.14%	0.83%	0.71%	0.72%	0.85%	0.56%	0.76%	0.81%	0.96%
LOW	2020	1.04%	0.71%	0.84%	0.75%	0.63%	0.80%	0.78%	1.16%	0.85%	0.74%	0.75%	0.89%	0.60%	0.78%	0.85%	0.98%
LOW	2021	1.08%	0.74%	0.87%	0.77%	0.65%	0.84%	0.81%	1.18%	0.88%	0.76%	0.79%	0.92%	0.63%	0.80%	0.88%	1.01%
LOW	2022	1.09%	0.76%	0.89%	0.79%	0.68%	0.88%	0.85%	1.19%	0.90%	0.79%	0.82%	0.95%	0.66%	0.82%	0.92%	1.03%
LOW	2023	1.12%	0.79%	0.91%	0.82%	0.70%	0.92%	0.88%	1.21%	0.93%	0.81%	0.85%	0.99%	0.69%	0.84%	0.95%	1.05%
LOW	2024	1.14%	0.82%	0.93%	0.84%	0.73%	0.95%	0.91%	1.23%	0.95%	0.84%	0.88%	1.02%	0.72%	0.86%	0.98%	1.07%
LOW	2025	1.15%	0.85%	0.95%	0.86%	0.75%	0.99%	0.94%	1.24%	0.98%	0.86%	0.90%	1.05%	0.75%	0.89%	1.02%	1.10%
LOW	2026	1.19%	0.88%	0.98%	0.88%	0.78%	1.03%	0.97%	1.26%	1.00%	0.89%	0.93%	1.08%	0.78%	0.90%	1.05%	1.12%
LOW	2027	1.20%	0.90%	0.99%	0.90%	0.80%	1.06%	1.00%	1.28%	1.02%	0.91%	0.96%	1.11%	0.81%	0.92%	1.08%	1.13%
LOW	2028	1.23%	0.92%	1.01%	0.91%	0.81%	1.09%	1.02%	1.29%	1.04%	0.93%	0.98%	1.13%	0.84%	0.94%	1.10%	1.15%
LOW	2029	1.22%	0.95%	1.02%	0.93%	0.83%	1.11%	1.05%	1.30%	1.06%	0.95%	1.00%	1.16%	0.86%	0.95%	1.13%	1.16%
LOW	2030	1.25%	0.97%	1.03%	0.95%	0.85%	1.14%	1.07%	1.31%	1.08%	0.97%	1.02%	1.18%	0.89%	0.96%	1.15%	1.18%

Appendix B-2

Demand Forecast Model Summary Tables

A Note on Low, Medium & High Scenarios

Included in the following pages are tables and charts illustrating Cascade's best guess estimate of future therm demand under low, medium and high scenarios. To form these scenarios, the underlying economic variables (employment, income and number of households) that form the basis for Cascade's forecasts are modified based on economic patterns from the past three decades. Simply put, a medium forecast is created then these base economic variables are decreased or increased and the regressions re-run to create low and high scenarios, respectively. Further details about how these scenarios are created can be found in the text of this IRP under the chapter entitled "Demand Forecast."

A somewhat counter-intuitive result of this method of constructing the low and high scenarios is that Cascade's customers' estimated requirements under the high scenario, which represents good economic conditions, can be *lower* than estimated requirements under the medium scenario (see the charts for Aberdeen, Baker and Yakima). What the high scenario represents under this methodology is a historically-based representation of the load during good economic times. Under certain circumstances high economic growth can lead to lower or negative demand growth among certain classes of customers. The non-linear appearance of forecasted load is primarily a result of the response of industrial customers to robust growth in the underlying economic indicators.

There are several hypotheses that can be used to explain this phenomenon. First, high exogenous income growth may have a negative effect on industrial output. As labor becomes more expensive, factories can become victim to decreased competitiveness and may scale back production as a response. Alternatively, high endogenous income growth can result from increased production on the part of industrial customers who may be able to save money by taking their increased gas demand to non-core rate schedules.

The pattern of divergence between scenarios across Cascade's districts is illustrative of the structural diversity of the regional economies within Cascade's geographically disparate service territory. While we do not know the true cause of decreased demand that can occur under a strong economy in some districts, the projections published here are based on the relationship between Cascade's historic load and the economics that produced these loads and are Cascade's best estimate of future load.

Cascade Natural Gas
2010 IRP Demand Forecast
Medium Scenario

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
Aberdeen																								
Total Thems Pct. Growth		-2.85%	-0.92%	0.43%	0.53%	0.37%	0.30%	0.49%	0.47%	0.37%	0.28%	0.42%	0.41%	0.38%	0.17%	0.52%	0.34%	0.29%	0.29%	0.29%	0.29%	0.28%	0.25%	
Residential Thems	3,907,331	3,844,689	3,790,462	3,773,158	3,783,522	3,773,463	3,783,522	3,868,977	3,859,959	3,855,619	3,867,544	3,920,000	3,940,671	3,984,834	3,992,759	4,000,360	4,017,907	4,025,150	4,028,820	4,030,875				
Commercial Thems	5,429,998	5,177,159	5,135,264	5,226,000	5,300,610	5,338,784	5,347,121	5,372,797	5,416,837	5,454,330	5,485,988	5,492,384	5,535,640	5,582,267	5,588,196	5,600,072	5,635,862	5,665,385	5,679,377	5,709,034	5,742,176	5,772,409		
Industrial Thems	376,556	387,688	395,427	399,862	408,149	410,361	417,141	425,303	435,426	447,291	461,292	478,228	497,464	519,264	543,618	570,965	600,245	632,452	668,965	709,965	758,258	814,222		
Ind., Inst., & Cncl. Intermup. Thems	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258		
Total Core Thems	10,447,182	10,148,113	10,055,433	10,098,478	10,151,590	10,188,733	10,218,660	10,288,184	10,317,804	10,355,739	10,388,462	10,428,179	10,470,806	10,516,498	10,528,510	10,583,123	10,618,802	10,649,840	10,676,781	10,708,666	10,738,142	10,764,855		
Daily BaseLoad Thems	8,885	8,831	8,552	8,588	8,634	8,665	8,692	8,734	8,807	8,832	8,832	8,869	8,905	8,939	8,954	9,031	9,057	9,080	9,107	9,132	9,158	9,185		
Peak Day Thems	82,423	81,962	81,349	81,710	82,338	82,953	83,557	84,149	84,724	85,279	85,828	86,369	86,896	87,407	87,904	88,396	88,887	89,325	89,711	90,204	90,627	91,048		
Thems Per Residential Customer	940	729	726	719	710	700	711	707	708	707	708	707	706	704	702	704	702	701	701	699	696	696		
Thems Per Commercial Customer	4,840	4,709	4,724	4,779	4,796	4,786	4,794	4,786	4,794	4,786	4,794	4,786	4,794	4,786	4,794	4,786	4,794	4,786	4,794	4,786	4,794	4,786		
Thems Per Industrial Customer	26,688	24,933	24,941	25,239	25,234	25,485	25,943	26,728	27,034	27,418	27,920	28,468	29,167	29,918	30,719	31,572	32,476	33,432	34,441	35,504	36,622	37,796		
Residential Customers	5,280	5,273	5,229	5,251	5,289	5,308	5,362	5,397	5,434	5,464	5,496	5,527	5,558	5,587	5,615	5,643	5,669	5,695	5,719	5,743	5,766	5,788		
Commercial Customers	1,122	1,089	1,087	1,093	1,105	1,116	1,127	1,138	1,149	1,159	1,170	1,181	1,192	1,203	1,213	1,224	1,234	1,245	1,255	1,265	1,275	1,286		
Industrial Customers	14	16	16	16	16	16	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14		
Interupble Customers	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Total Core Customers	6,418	6,380	6,334	6,362	6,411	6,459	6,506	6,552	6,597	6,643	6,688	6,733	6,778	6,823	6,868	6,913	6,958	7,003	7,048	7,093	7,138	7,183		
Bellingham																								
Total Thems Pct. Growth		-2.82%	0.51%	1.02%	1.52%	1.77%	1.99%	1.83%	1.59%	1.56%	1.72%	1.59%	1.38%	1.29%	1.29%	1.57%	1.58%	1.25%	1.35%	1.18%	1.11%	1.12%		
Residential Thems	30,430,845	30,371,470	30,786,235	31,323,597	31,953,714	32,597,822	33,271,087	33,995,521	34,762,252	35,572,925	36,426,961	37,324,100	38,266,961	39,259,961	40,299,961	41,389,961	42,529,961	43,719,961	44,959,961	46,249,961	47,589,961	48,979,961	50,419,961	
Commercial Thems	15,232,543	14,822,832	14,974,586	15,168,424	15,400,658	15,748,792	16,079,792	16,390,626	16,697,392	17,000,100	17,308,752	17,623,440	17,944,160	18,270,912	18,608,688	18,957,488	19,317,312	19,688,160	20,060,032	20,442,928	20,836,848	21,241,824	21,657,856	
Industrial Thems	7,407,240	6,284,384	6,179,688	6,169,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	6,179,688	
Ind., Inst., & Cncl. Intermup. Thems	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	
Total Core Thems	53,040,051	51,642,689	51,111,919	51,642,689	52,444,521	53,444,521	54,444,521	55,444,521	56,444,521	57,444,521	58,444,521	59,444,521	60,444,521	61,444,521	62,444,521	63,444,521	64,444,521	65,444,521	66,444,521	67,444,521	68,444,521	69,444,521	70,444,521	
Daily BaseLoad Thems	52,819	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	51,807	
Peak Day Thems	687,742	691,555	699,472	714,956	732,652	750,486	768,473	786,518	804,631	823,210	841,743	860,433	879,292	898,305	917,482	936,800	956,254	975,842	995,564	1,015,541	1,035,828	1,056,590	1,077,800	
Thems Per Residential Customer	758	756	754	747	744	744	742	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	
Thems Per Commercial Customer	3,265	3,157	3,143	3,113	3,089	3,073	3,062	3,046	3,033	3,023	3,011	2,994	2,982	2,966	2,958	2,946	2,934	2,921	2,908	2,895	2,882	2,869	2,856	
Thems Per Industrial Customer	185,181	157,528	149,167	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	152,059	
Residential Customers	40,169	40,414	40,837	41,735	42,765	43,806	44,866	45,915	46,985	48,063	49,152	50,259	51,383	52,525	53,685	54,861	56,053	57,261	58,485	59,725	60,989	62,277	63,589	
Commercial Customers	4,666	4,695	4,764	4,877	5,001	5,125	5,249	5,371	5,493	5,614	5,735	5,855	5,974	6,093	6,211	6,328	6,444	6,560	6,676	6,791	6,906	7,021	7,136	
Industrial Customers	40	40	40	39	39	39	38	38	38	37	37	37	37	37	36	36	36	36	36	36	36	36	36	
Interupble Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Total Core Customers	44,878	45,152	45,643	46,654	47,809	48,972	50,146	51,327	52,519	53,718	54,927	56,147	57,377	58,618	59,870	61,130	62,400	63,679	64,968	66,268	67,579	68,890		
Bremerton																								
Total Thems Pct. Growth		-2.22%	0.79%	2.19%	2.61%	2.64%	2.67%	2.62%	2.52%	2.48%	2.50%	2.45%	2.37%	2.32%	2.32%	2.36%	2.39%	2.25%	2.22%	2.24%	2.17%	2.13%	2.09%	
Residential Thems	20,587,402	20,277,608	20,386,555	20,792,007	21,285,197	21,789,427	22,338,337	22,834,302	23,382,300	23,888,122	24,395,568	24,928,973	25,455,383	25,976,259	26,515,884	27,080,400	27,615,732	28,159,000	28,711,888	29,245,432	29,797,728	30,331,602	30,865,476	
Commercial Thems	9,662,771	9,293,700	9,420,962	9,676,568	9,987,792	10,318,396	10,666,047	11,021,981	11,388,317	11,761,134	12,081,248	12,451,911	13,195,413	13,584,148	13,995,558	14,362,031	14,703,000	15,028,416	15,328,800	15,603,264	15,852,304	16,084,416	16,299,216	
Industrial Thems	12,338	12,235	12,442	12,442	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	13,383	
Ind., Inst., & Cncl. Intermup. Thems	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	357,624	
Total Core Thems	30,625,135	29,941,187	30,178,953	30,838,961	31,644,474	32,479,255	33,388,844	34,244,414	35,088,934	35,990,491	36,844,831	37,651,428	38,428,777	39,176,259	39,899,000	40,588,000	41,248,000	41,879,000	42,479,000	43,049,000	43,589,000	44,099,000	44,569,000	
Daily BaseLoad Thems																								

Cascade Natural Gas
2010 IRP Demand Forecast
Medium Scenario

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Moses Lake																							
Total Thems Pct. Growth		-3.40%	-0.27%	0.80%	1.02%	0.97%	1.01%	1.09%	0.96%	0.85%	0.84%	0.91%	0.80%	0.75%	0.67%	1.03%	0.72%	0.66%	0.68%	0.65%	0.63%	1.56%	
Residential Thems	1,128,284	1,117,615	1,068,300	1,087,752	1,091,579	1,100,110	1,116,631	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	1,125,083	1,122,327	
Commercial Thems	2,636,699	2,511,960	2,511,960	2,550,058	2,535,568	2,554,795	2,574,989	2,596,560	2,613,259	2,630,081	2,648,776	2,667,152	2,681,993	2,696,903	2,714,548	2,731,743	2,745,666	2,759,722	2,773,301	2,786,478	2,800,967	2,815,991	
Industrial Thems	423,447	414,764	427,816	461,391	487,628	504,300	521,471	528,110	543,491	560,330	569,520	582,360	602,137	623,280	641,499	660,608	677,351	693,528	708,474	720,500	729,000	743,256	
Ind., Inst., & Cncl. Interm. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Thems	4,188,430	4,046,680	4,035,085	4,068,201	4,116,775	4,150,683	4,193,516	4,238,203	4,279,874	4,315,557	4,351,557	4,389,713	4,391,731	4,428,990	4,460,195	4,486,278	4,538,465	4,568,974	4,599,116	4,630,362	4,660,484	4,689,778	
Daily BaseLoad Thems	3,668	3,543	3,564	3,579	3,600	3,635	3,672	3,712	3,742	3,779	3,811	3,846	3,877	3,923	3,966	4,001	4,028	4,058	4,092	4,127	4,162	4,199	
Peak Day Thems	79,509	79,529	79,891	79,577	80,885	81,576	82,574	84,503	84,503	85,486	86,370	87,313	88,224	89,126	90,016	90,902	91,770	92,611	93,440	94,245	95,049	95,822	
Thems Per Residential Customer	6.08	5.94	5.96	5.77	5.72	5.71	5.71	5.71	5.67	5.62	5.60	5.58	5.53	5.46	5.43	5.46	5.41	5.36	5.33	5.28	5.22	5.16	
Thems Per Commercial Customer	4,179	4,000	3,965	3,977	3,963	3,965	3,962	3,953	3,921	3,913	3,903	3,888	3,873	3,863	3,852	3,838	3,821	3,803	3,782	3,759	3,732	3,709	
Thems Per Industrial Customer	23,832	23,138	23,561	24,507	24,858	24,864	24,991	25,373	25,345	25,710	25,622	25,403	25,223	25,084	24,748	24,544	24,286	24,057	23,877	23,664	23,428	23,183	
Residential Customers	1,659	1,664	1,643	1,684	1,698	1,708	1,723	1,737	1,750	1,762	1,773	1,783	1,792	1,800	1,808	1,815	1,821	1,827	1,832	1,837	1,842	1,847	
Commercial Customers	631	628	629	634	640	646	652	658	664	671	677	683	690	696	703	709	716	722	729	735	742	749	
Industrial Customers	18	18	18	19	20	20	21	22	23	24	25	26	27	28	29	31	32	33	35	36	38	39	
Intermptible Customers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Customers	2,905	2,910	2,908	2,912	2,943	2,948	2,966	2,988	2,987	2,997	3,008	3,018	3,028	3,038	3,048	3,058	3,068	3,078	3,088	3,098	3,108	3,118	
Mount Vernon																							
Total Thems Pct. Growth		-2.85%	-0.49%	0.39%	1.11%	1.15%	1.53%	2.05%	2.03%	1.72%	1.73%	2.07%	2.06%	1.79%	1.70%	2.16%	2.55%	1.91%	1.96%	2.20%	2.51%	2.10%	
Residential Thems	25,468,003	25,370,257	25,186,779	25,338,776	25,643,703	26,028,841	26,526,629	27,100,728	27,579,343	28,047,219	28,603,299	29,197,262	29,711,833	30,200,317	30,803,326	31,643,006	32,251,059	32,936,566	33,537,286	34,100,139	34,831,866	35,535,232	
Commercial Thems	15,865,718	14,977,602	15,008,878	15,114,025	15,373,829	15,722,116	16,100,090	16,541,866	16,957,717	17,288,664	17,784,182	18,178,338	18,574,863	18,966,662	19,462,611	19,984,960	20,422,770	20,907,342	21,436,899	21,924,388	22,498,336	22,987,118	
Industrial Thems	1,832,734	1,672,055	1,622,014	1,522,173	1,426,055	1,343,291	1,271,278	1,206,627	1,139,027	1,069,465	986,731	934,091	890,624	858,759	824,512	784,752	753,596	718,830	698,377	672,779	648,835	648,835	
Ind., Inst., & Cncl. Interm. Thems	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	
Total Core Thems	43,892,125	42,145,184	41,940,648	42,101,934	42,563,322	43,719,223	44,943,604	46,943,074	47,965,424	48,943,074	49,965,424	50,943,074	51,965,424	52,943,074	53,965,424	55,965,424	57,965,424	59,965,424	61,965,424	63,965,424	65,965,424	67,965,424	
Daily BaseLoad Thems	42,599	41,287	41,984	41,255	41,328	41,384	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	41,419	
Peak Day Thems	486,691	487,841	487,291	494,427	503,813	513,400	523,472	533,762	544,350	555,276	566,530	578,055	590,021	602,267	614,900	627,849	641,234	654,961	669,606	683,608	698,525	714,941	
Thems Per Residential Customer	720	715	711	705	708	708	708	708	708	708	708	708	708	708	708	708	708	708	708	708	708	708	
Thems Per Commercial Customer	3,539	3,329	3,319	3,288	3,280	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	3,289	
Thems Per Industrial Customer	20,322	17,829	17,861	17,852	17,856	17,864	17,867	18,064	18,111	18,279	18,364	18,421	18,421	18,421	18,421	18,421	18,421	18,421	18,421	18,421	18,421	18,421	
Residential Customers	35,394	35,469	35,462	35,020	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	35,003	
Commercial Customers	4,480	4,499	4,521	4,597	4,688	4,780	4,874	4,969	5,065	5,162	5,260	5,360	5,462	5,565	5,668	5,769	5,874	5,981	6,088	6,196	6,306	6,422	
Industrial Customers	93	93	90	85	80	75	71	67	63	59	56	53	51	48	46	44	42	40	38	37	35	34	
Intermptible Customers	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total Core Customers	39,968	40,062	40,017	40,003	41,074	42,169	43,890	45,834	47,703	49,600	51,525	53,473	55,444	57,439	59,469	61,537	63,644	65,791	67,980	70,213	72,494		
Sunnyside																							
Total Thems Pct. Growth		-3.00%	-0.87%	-1.23%	-0.60%	-0.95%	-0.49%	0.40%	0.93%	0.95%	0.44%	0.36%	0.64%	-0.05%	0.47%	0.77%	0.12%	0.16%	0.42%	0.19%	0.12%	0.17%	
Residential Thems	3,221,397	3,187,084	3,168,776	3,150,444	3,143,130	3,149,059	3,174,004	3,204,002	3,224,531	3,236,504	3,261,881	3,291,058	3,304,465	3,311,887	3,323,049	3,330,263	3,408,637	3,424,668	3,452,811	3,471,135	3,484,577	3,496,501	
Commercial Thems	4,827,358	4,648,088	4,632,606	4,632,250	4,663,344	4,745,778	4,848,625	4,974,819	4,817,919	4,848,625	4,898,796	4,954,150	4,979,257	5,017,753	5,052,332	5,078,222	5,104,964	5,136,522	5,168,775	5,181,875	5,204,336	5,204,336	
Industrial Thems	1,330,670	1,357,814	1,310,591	1,210,568	1,130,211	1,050,560	980,993	941,061	902,560	854,119	804,770	784,740	764,544	748,624	730,100	708,621	738,637	712,379	698,778	668,037	643,282	624,675	
Ind., Inst., & Cncl. Interm. Thems	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	37,359	
Total Core Thems	9,556,984	9,270,155	9,189,332	9,078,621	9,024,204	9,012,904	9,016,841	9,048,685	9,096,912	9,104,899	9,145,126	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	9,177,242	
Daily BaseLoad Thems	6,696	6,495	6,498	6,379	6,359	6,321	6,318	6,348	6,374	6,378	6,386	6,430	6,430	6,430	6,430	6,430	6,430	6,430	6,430	6,430	6,430	6,430	
Peak Day Thems	98,050	97,721	97,665	98,665	98,499	98,891	99,312	99,719	100,114	100,494	100,863	101,224	101,676	102,116	102,244	102,560	102,865	103,157	103,438	103,710	103,970	104,228	
Thems Per Residential Customer	613	608	606	599	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598	
Thems Per Commercial Customer	3,705	3,513	3,508	3,494	3,491	3,497	3,510	3,519	3,526	3,532	3,545	3,555	3,561	3,566	3,581	3,594	3,601	3,611	3,623	3,632	3,641	3,650	
Thems Per Industrial Customer	28,316	28,540	27,882	26,388	25,406	24,918	24,428	23,761	23,159	22,609	22,104	20,965	20,292	19,685	19,117	18,706	18,265	17,810	17,526	17,526	17,526	17,526	
Residential Customers	5,258	5,240	5,239	5,257	5,280	5,323	5,340	5,367	5,385	5,403	5,423	5,442	5,460	5,477	5,495	5,511	5,527	5,543	5,559	5,574	5,587	5,600	
Commercial Customers	1,330	1,323	1,321	1,327	1,336</																		

Cascade Natural Gas
2010 IRP Demand Forecast
Medium Scenario

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Yakima																							
Total Thems Pct. Growth		-2.0%	-0.8%	-0.4%	0.0%	0.4%	0.9%	0.9%	0.9%	0.5%	0.5%	0.8%	0.9%	0.5%	0.4%	0.2%	0.5%	0.8%	0.9%	0.9%	0.5%	0.5%	
Residential Thems	13,231,368	13,117,486	13,186,798	13,181,655	13,250,814	13,370,684	13,567,029	13,795,540	13,958,186	14,106,883	14,302,559	14,522,029	14,777,113	15,054,252	15,348,215	15,614,027	15,848,116	16,071,155	16,286,156	16,496,156	16,701,156	16,901,156	
Commercial Thems	13,019,439	12,834,511	12,568,665	12,345,048	12,302,269	12,468,873	12,568,778	12,650,185	12,714,324	12,774,135	12,828,001	12,876,347	12,927,083	13,021,155	13,100,076	13,168,214	13,212,545	13,259,352	13,310,936	13,357,684	13,392,835	13,434,889	
Industrial Thems	3,096,141	2,933,886	2,905,248	2,796,715	2,704,186	2,643,700	2,601,580	2,569,663	2,499,300	2,445,141	2,415,256	2,368,919	2,312,999	2,258,196	2,211,295	2,164,620	2,114,816	2,068,428	2,048,178	2,008,608	1,973,804	1,937,846	
Ind., Inst., & Cncl. Interm. Thems	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	
Total Core Thems	29,504,432	28,433,426	28,602,241	28,472,861	28,497,755	28,633,632	28,883,872	29,155,873	29,319,303	29,476,444	29,724,588	29,965,890	30,117,878	30,238,150	30,486,379	30,864,386	31,011,685	31,209,853	31,460,514	31,645,514	31,806,389	31,976,258	
Daily BaseLoad Thems	21,301	20,819	20,652	20,559	20,527	20,675	20,717	20,823	21,052	21,170	21,283	21,357	21,482	21,578	21,748	22,032	22,408	22,535	22,535	22,498	22,366	23,088	
Peak Day Thems	305,047	300,223	304,806	307,376	310,617	314,270	317,727	321,179	324,620	328,074	331,521	334,969	338,412	341,860	345,304	348,746	352,189	355,618	359,054	362,472	365,890	369,309	
Thems Per Residential Customer	664	663	660	663	670	677	679	683	687	692	694	697	697	695	695	695	695	695	695	695	695	695	
Thems Per Commercial Customer	3,943	3,825	3,816	3,792	3,778	3,774	3,774	3,775	3,775	3,774	3,769	3,768	3,768	3,767	3,769	3,774	3,770	3,774	3,771	3,713	3,705	3,698	
Thems Per Industrial Customer	40,249	37,269	36,895	35,980	35,457	35,293	35,419	35,352	35,477	34,849	34,740	34,429	34,073	33,749	34,029	33,783	34,144	33,827	33,421	33,165	32,887	32,621	
Residential Customers	19,070	19,206	19,121	19,287	19,517	19,748	19,981	20,213	20,444	20,677	20,910	21,143	21,376	21,610	21,844	22,078	22,313	22,547	22,782	23,017	23,253	23,489	
Commercial Customers	3,302	3,251	3,238	3,256	3,280	3,304	3,328	3,351	3,374	3,396	3,418	3,440	3,461	3,482	3,502	3,522	3,542	3,561	3,579	3,597	3,615	3,633	
Industrial Customers	77	79	79	78	76	75	74	72	71	70	69	68	67	66	65	65	64	63	62	62	61	61	
Intermittible Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Total Core Customers	22,452	22,539	22,442	22,623	22,877	23,151	23,385	23,639	23,893	24,147	24,401	24,654	24,908	25,162	25,415	25,668	25,922	26,174	26,427	26,679	26,932	27,185	
Baker																							
Total Thems Pct. Growth		-0.4%	-0.8%	-0.8%	-0.6%	-0.3%	-0.2%	0.0%	-0.0%	-0.0%	0.1%	0.1%	0.0%	0.0%	0.1%	0.2%	0.1%	0.2%	0.2%	0.1%	0.1%	0.3%	
Residential Thems	2,243,586	2,272,912	2,276,485	2,289,891	2,285,473	2,286,876	2,277,979	2,293,142	2,301,631	2,308,870	2,322,206	2,336,272	2,346,551	2,353,858	2,361,320	2,369,390	2,377,360	2,411,076	2,425,081	2,444,133	2,460,144	2,475,549	
Commercial Thems	1,762,765	1,714,604	1,670,468	1,622,244	1,642,971	1,635,243	1,620,745	1,624,751	1,618,387	1,612,466	1,607,369	1,601,033	1,595,645	1,589,188	1,582,973	1,579,521	1,571,835	1,565,889	1,568,968	1,569,222	1,569,222	1,569,222	
Industrial Thems	56,153	76,291	81,330	73,265	62,771	53,832	46,370	40,224	35,080	30,668	26,800	23,603	20,825	18,493	16,370	14,568	13,052	11,713	10,537	9,528	8,640	7,928	
Ind., Inst., & Cncl. Interm. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Thems	4,062,494	4,064,806	4,028,291	3,995,400	3,971,215	3,955,801	3,950,964	3,956,118	3,955,997	3,951,844	3,946,224	3,940,868	3,936,252	3,931,438	3,926,773	3,922,189	3,917,699	3,913,211	3,908,723	3,904,235	3,900,747	3,897,259	
Daily BaseLoad Thems	3,336	3,256	3,262	3,256	3,245	3,233	3,223	3,214	3,205	3,211	3,218	3,225	3,231	3,238	3,245	3,251	3,258	3,264	3,271	3,278	3,285	3,292	
Peak Day Thems	25,970	26,266	26,338	26,414	26,493	26,572	26,673	26,779	26,894	27,015	27,142	27,262	27,409	27,560	27,697	27,863	28,037	28,215	28,391	28,583	28,785	29,009	
Thems Per Residential Customer	675	672	669	666	661	660	661	662	661	662	661	662	661	662	661	662	663	664	663	662	661	661	
Thems Per Commercial Customer	3,638	3,599	3,575	3,547	3,521	3,500	3,481	3,460	3,437	3,415	3,395	3,373	3,350	3,325	3,305	3,283	3,259	3,236	3,214	3,190	3,166	3,142	
Thems Per Industrial Customer	28,077	26,636	26,124	25,665	25,253	24,889	24,567	24,289	24,057	23,867	23,710	23,586	23,482	23,388	23,303	23,228	23,162	23,105	23,057	23,018	22,987	22,964	
Residential Customers	3,326	3,382	3,401	3,414	3,425	3,436	3,445	3,455	3,465	3,475	3,485	3,495	3,505	3,515	3,525	3,535	3,545	3,555	3,565	3,575	3,585	3,595	
Commercial Customers	490	477	467	466	467	467	467	468	471	472	474	475	476	478	479	481	482	484	485	487	488	491	
Industrial Customers	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3	
Intermittible Customers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Customers	3,816	3,862	3,872	3,883	3,895	3,907	3,921	3,937	3,954	3,972	3,990	4,008	4,029	4,052	4,072	4,096	4,122	4,148	4,174	4,202	4,232	4,265	
Band																							
Total Thems Pct. Growth		0.1%	1.4%	1.4%	2.0%	2.5%	3.1%	3.7%	2.9%	2.4%	2.3%	2.7%	2.8%	2.6%	2.2%	2.6%	3.0%	3.4%	2.9%	2.5%	2.0%	2.6%	
Residential Thems	29,034,005	29,311,494	29,573,160	29,975,027	30,494,488	31,119,250	31,975,254	32,790,191	33,511,344	34,196,658	35,006,143	35,864,879	36,875,772	37,929,801	39,026,344	40,161,214	41,334,518	42,546,000	43,795,430	45,082,722	46,406,972	47,770,188	
Commercial Thems	18,308,461	18,266,673	18,267,980	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	18,268,056	
Industrial Thems	1,897,103	1,723,987	1,644,903	1,534,300	1,465,367	1,430,412	1,421,244	1,402,137	1,371,713	1,347,659	1,323,024	1,303,928	1,289,700	1,276,524	1,264,376	1,253,252	1,243,152	1,234,072	1,226,000	1,218,928	1,212,856	1,207,784	
Ind., Inst., & Cncl. Interm. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Thems	48,239,569	49,322,164	50,268,063	50,733,383	51,729,052	52,819,962	54,026,564	55,260,374	56,638,117	58,164,527	59,849,227	61,683,807	63,671,501	65,814,681	68,114,714	70,574,982	73,194,580	75,974,072	78,912,864	82,019,216	85,306,048	88,784,176	
Daily BaseLoad Thems	41,488	41,541	42,151	42,748	43,625	44,736	46,088	47,694	49,548	51,648	53,996	56,592	59,436	62,524	65,956	69,732	73,852	78,316	83,124	88,276	93,784	99,648	
Peak Day Thems	664,373	669,111	674,146	679,389	684,832	690,475	696,318	702,361	708,604	715,047	721,690	728,433	735,276	742,219	749,262	756,405	763,648	770,991	778,434	785,877	793,420	801,063	
Thems Per Residential Customer	763	765	769	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	
Thems Per Commercial Customer	3,046	3,002	3,024	3,000	2,988	3,017	3,055	3,080	3,104	3,127	3,159	3,189	3,218	3,246	3,274	3,301	3,328	3,354	3,381	3,407	3,434	3,461	
Thems Per Industrial Customer	36,483	33,747	33,347	32,057	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	31,454	
Residential Customers	37,068	37,367	37,815	38,330	39,343	40,861	42,912	45,479	48,546	52,113	56,180	60,747	65,814	71,381	77,448	84,015	91,082	98,649	106,716	115,283	124,350	133,917	
Commercial Customers	6,011	6,085	6,220	6,408	6,610	6,812	7,014	7,216	7,418	7,620	7,822												

Cascade Natural Gas
2010 IRP Demand Forecast
Low Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Aberdeen																						
Total Thems Pct. Growth	-3.72%	-1.00%	0.35%	0.44%	0.29%	0.23%	0.41%	0.39%	0.31%	0.21%	0.35%	0.34%	0.31%	0.11%	0.46%	0.29%	0.23%	0.20%	0.24%	0.23%	0.20%	
Residential Thems	3,841,095	3,768,217	3,766,270	3,764,945	3,797,258	3,820,759	3,820,759	3,840,982	3,850,893	3,870,201	3,892,478	3,903,682	3,918,473	3,961,327	3,960,234	3,974,658	3,977,790	4,000,612	4,001,914	4,011,915	4,011,915	
Commercial Thems	5,159,681	5,111,483	5,196,323	5,262,897	5,294,452	5,296,474	5,316,705	5,353,300	5,384,671	5,390,300	5,416,684	5,447,739	5,488,354	5,496,500	5,495,181	5,525,200	5,549,179	5,567,996	5,582,269	5,609,960	5,635,033	
Industrial Thems	386,548	388,644	395,499	398,009	403,433	416,390	424,763	430,760	437,267	443,267	449,267	455,267	461,267	467,267	473,267	479,267	485,267	491,267	497,267	503,267	509,267	
Ind., Inst. & Cmcd. Intermup. Thems	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	739,258	
Total Core Thems	10,126,121	10,024,641	10,059,380	10,104,464	10,133,300	10,156,501	10,181,147	10,238,382	10,287,819	10,321,619	10,362,869	10,402,713	10,442,267	10,481,517	10,454,034	10,484,111	10,508,287	10,529,423	10,548,608	10,575,488	10,598,177	
Daily BaseLoad Thems	8,612	8,536	8,558	8,593	8,618	8,638	8,673	8,703	8,734	8,763	8,793	8,823	8,853	8,883	8,913	8,943	8,973	8,998	9,023	9,048	9,073	
Peak Day Thems	81,945	81,167	81,499	82,018	82,564	83,100	83,622	84,129	84,719	85,286	85,930	86,650	87,356	88,038	88,774	89,574	90,439	91,374	92,378	93,451	94,594	
Thems Per Residential Customer	729	725	719	714	711	711	712	711	709	709	709	707	704	704	706	706	705	705	704	702	699	
Thems Per Commercial Customer	4,710	4,727	4,749	4,785	4,797	4,780	4,797	4,795	4,777	4,789	4,787	4,778	4,783	4,777	4,783	4,787	4,791	4,791	4,791	4,791	4,791	
Thems Per Industrial Customer	24,945	24,104	22,365	21,285	21,042	21,191	21,025	20,524	20,109	20,104	19,823	19,324	18,760	18,637	18,172	17,792	17,628	17,205	16,758	16,385		
Residential Customers	5,268	5,221	5,239	5,276	5,294	5,308	5,341	5,373	5,404	5,433	5,462	5,492	5,524	5,559	5,598	5,637	5,682	5,732	5,787	5,846		
Commercial Customers	1,096	1,081	1,086	1,095	1,104	1,113	1,122	1,130	1,139	1,148	1,157	1,165	1,174	1,182	1,190	1,198	1,206	1,214	1,222	1,230		
Industrial Customers	15	16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14		
Interupible Customers	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Total Core Customers	6,381	6,326	6,343	6,387	6,429	6,471	6,511	6,551	6,599	6,626	6,663	6,699	6,733	6,767	6,800	6,832	6,862	6,892	6,920	6,948		

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Bellingham																					
Total Thems Pct. Growth	-3.38%	0.29%	0.79%	1.31%	1.50%	1.78%	1.63%	1.39%	1.30%	1.53%	1.41%	1.20%	1.11%	1.39%	1.41%	1.08%	1.08%	1.08%	1.01%	0.94%	0.95%
Residential Thems	30,420,546	30,343,192	30,962,324	31,514,810	32,099,377	32,822,205	33,209,273	33,746,337	34,265,789	34,801,498	35,337,816	35,838,872	36,315,823	36,818,296	37,362,377	37,852,708	38,315,468	38,795,915	39,240,177	39,688,040	40,117,724
Commercial Thems	14,801,613	14,841,258	15,189,399	15,396,907	15,696,672	16,002,838	16,288,433	16,520,486	16,788,340	17,031,245	17,263,863	17,462,549	17,642,546	17,870,800	18,049,677	18,294,102	18,569,599	18,869,718	19,069,526	19,809,225	19,914,646
Industrial Thems	6,273,906	6,451,448	6,590,965	6,822,721	6,912,711	6,800,865	6,912,711	6,902,284	6,935,702	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877	6,942,877
Ind., Inst. & Cmcd. Intermup. Thems	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423	169,423
Total Core Thems	51,965,488	51,814,109	52,222,132	52,963,862	53,968,183	54,685,131	55,321,221	55,947,230	56,747,230	57,611,230	58,547,230	59,511,230	60,517,230	61,561,230	62,641,230	63,759,230	64,919,230	66,124,230	67,374,230	68,669,230	70,014,230
Daily BaseLoad Thems	51,965	51,411	52,014	52,824	53,804	54,826	55,873	56,942	58,037	59,164	60,329	61,531	62,771	64,049	65,366	66,722	68,118	69,554	71,032	72,554	
Peak Day Thems	688,765	694,068	707,212	722,445	737,735	753,065	768,465	783,930	799,374	814,906	830,500	846,170	861,997	877,887	893,825	909,805	925,824	941,300	957,375	973,489	
Thems Per Residential Customer	756	754	751	748	745	743	743	739	733	730	727	723	718	710	703	711	710	707	704	699	
Thems Per Commercial Customer	3,157	3,145	3,117	3,095	3,081	3,073	3,059	3,040	3,021	3,007	2,989	2,966	2,941	2,925	2,907	2,882	2,859	2,838	2,813	2,787	
Thems Per Industrial Customer	157,689	155,981	151,703	150,369	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	145,425	
Residential Customers	40,214	40,458	41,249	42,108	43,008	43,853	44,762	45,675	46,571	47,472	48,375	49,268	50,154	51,125	52,049	52,977	53,906	54,847	55,789	56,736	
Commercial Customers	4,688	4,750	4,857	4,974	5,091	5,208	5,323	5,438	5,551	5,664	5,788	5,899	6,009	6,128	6,246	6,363	6,483	6,604	6,726	6,851	
Industrial Customers	40	39	39	39	38	38	38	37	37	37	37	37	36	36	36	36	35	35	35	35	
Interupible Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Total Core Customers	44,945	45,291	46,140	47,143	48,140	49,142	50,140	51,153	52,162	53,178	54,194	55,216	56,242	57,273	58,300	59,342	60,381	61,425	62,473	63,524	

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Bremerton																					
Total Thems Pct. Growth	2.53%	0.45%	1.85%	2.28%	2.31%	2.34%	2.29%	2.20%	2.16%	2.14%	2.06%	2.01%	2.05%	2.01%	2.05%	2.08%	1.94%	1.92%	1.93%	1.87%	1.83%
Residential Thems	20,177,623	20,207,580	20,537,526	20,951,391	21,373,606	21,808,044	22,246,654	22,675,040	23,099,205	23,522,273	23,966,830	24,395,690	24,818,147	25,250,474	25,762,957	26,133,390	26,569,478	26,994,474	27,421,297	27,845,958	28,268,900
Commercial Thems	9,261,151	9,360,832	9,586,105	9,886,913	10,164,103	10,478,230	10,785,791	11,403,427	11,729,847	12,064,843	12,368,536	12,642,540	13,047,075	13,363,662	14,079,585	14,437,309	14,791,253	15,147,614	15,471,253	15,811,314	
Industrial Thems	12,386	12,895	11,745	14,377	14,549	14,338	14,319	14,543	14,479	14,464	14,426	14,495	14,804	14,459	14,221	14,253	14,190	13,938	13,863	13,816	
Ind., Inst. & Cmcd. Intermup. Thems	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Total Core Thems	29,627,274	29,638,248	30,485,099	31,198,304	31,969,881	32,656,248	33,484,388	34,139,138	34,873,914	35,624,228	36,342,428	37,091,984	37,889,984	38,690,984	39,472,484	40,238,824	41,016,974	41,809,484	42,594,474	43,369,484	44,147,474
Daily BaseLoad Thems	33,888	33,741	34,369	35,152	35,983	36,864	37,793	38,776	39,805	40,884	41,918	42,903	43,851	44,876	45,850	46,220	47,113	47,993	48,873	49,749	
Peak Day Thems	338,656	340,198	346,834	354,934	363,091	371,326	379,622	388,001	396,433	404,953	414,556	424,283	431,020	438,657	446,776	454,760	462,666	470,566	478,466	486,316	
Thems Per Residential Customer	729	729	721	724	721	720	716	710	706	701	696	691									

Cascade Natural Gas
2010 IRP Demand Forecast
Low Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Moses Lake																						
Total Thems Pct. Growth	-4.64%	-0.50%	0.62%	0.80%	0.77%	0.82%	0.80%	0.90%	0.77%	0.66%	0.67%	0.73%	0.61%	0.55%	0.51%	0.86%	0.53%	0.47%	0.51%	0.46%	0.43%	0.36%
Residential Thems	1,114,430	1,090,910	1,082,350	1,081,250	1,084,550	1,096,340	1,108,160	1,113,640	1,123,130	1,131,680	1,139,810	1,147,610	1,155,220	1,162,750	1,170,200	1,177,650	1,185,100	1,192,550	1,200,000	1,207,450	1,214,900	1,222,350
Commercial Thems	2,697,204	2,591,733	2,506,284	2,518,390	2,534,275	2,553,140	2,569,522	2,583,047	2,596,744	2,610,299	2,623,634	2,636,830	2,650,000	2,663,150	2,676,300	2,689,450	2,702,600	2,715,750	2,728,900	2,742,050	2,755,200	2,768,350
Industrial Thems	407,839	418,817	445,966	466,959	479,966	492,973	505,980	518,987	531,994	544,999	557,999	570,999	583,999	596,999	609,999	622,999	635,999	648,999	661,999	674,999	687,999	700,999
Ind., Inst. & Cncl. Interm. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Thems	4,029,473	4,009,400	4,034,204	4,066,644	4,097,223	4,131,328	4,168,564	4,200,995	4,238,391	4,276,555	4,314,822	4,353,089	4,391,356	4,429,623	4,467,890	4,506,157	4,544,424	4,582,691	4,620,958	4,659,225	4,697,492	4,735,759
Daily BaseLoad Thems	3,529	3,511	3,513	3,561	3,589	3,618	3,647	3,676	3,705	3,734	3,763	3,792	3,821	3,850	3,879	3,908	3,937	3,966	3,995	4,024	4,053	4,082
Peak Day Thems	79,378	78,639	79,200	80,089	80,961	81,835	82,670	83,517	84,327	85,134	85,947	86,759	87,566	88,373	89,180	90,000	90,820	91,640	92,460	93,280	94,100	94,920
Thems Per Residential Customer	699	694	695	677	672	671	672	668	664	662	661	658	656	654	652	647	642	640	638	636	634	631
Thems Per Commercial Customer	3,988	3,963	3,976	3,963	3,964	3,967	3,968	3,978	3,988	3,997	4,002	4,006	4,010	4,014	4,018	4,022	4,026	4,030	4,034	4,038	4,042	4,046
Thems Per Industrial Customer	23,070	23,500	24,464	24,846	24,710	24,159	23,830	23,738	23,982	23,053	22,724	22,802	22,923	23,048	23,173	23,298	23,423	23,548	23,673	23,798	23,923	24,048
Residential Customers	1,861	1,838	1,851	1,874	1,895	1,917	1,938	1,959	1,979	1,998	2,018	2,037	2,055	2,073	2,090	2,107	2,124	2,139	2,154	2,169	2,184	2,198
Commercial Customers	627	627	630	635	641	646	651	656	661	666	672	677	682	687	693	698	703	708	714	719	725	730
Industrial Customers	18	18	18	19	19	20	21	21	21	22	23	23	24	25	25	26	27	28	29	30	31	32
Intermittent Customers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Customers	2,505	2,482	2,500	2,528	2,555	2,583	2,609	2,636	2,662	2,687	2,713	2,737	2,762	2,786	2,809	2,832	2,855	2,877	2,898	2,919	2,942	
Mount Vernon																						
Total Thems Pct. Growth	-4.17%	-0.98%	-0.11%	0.60%	1.01%	1.48%	1.50%	1.20%	1.20%	1.54%	1.52%	1.24%	1.16%	1.62%	2.00%	1.36%	1.42%	1.65%	1.46%	1.39%	1.55%	
Residential Thems	20,094,589	24,757,190	24,793,084	24,895,825	25,113,390	26,443,672	25,824,504	26,117,862	26,396,452	26,732,478	27,138,753	27,445,267	27,722,267	28,100,761	28,627,637	29,038,488	29,396,626	29,840,511	30,224,150	30,606,820	30,989,728	31,372,150
Commercial Thems	14,899,322	14,892,219	14,907,623	15,125,948	15,410,670	15,790,262	16,007,610	16,380,796	16,689,173	17,064,628	17,414,421	17,718,767	18,022,460	18,326,614	18,630,908	19,180,566	19,545,744	19,908,669	20,352,789	20,792,405	21,120,226	21,500,000
Industrial Thems	1,677,716	1,632,485	1,536,481	1,443,468	1,363,297	1,293,469	1,227,312	1,164,337	1,107,227	1,058,728	962,548	918,383	882,805	848,033	813,966	782,738	754,588	727,251	717,251	704,588	692,251	677,197
Ind., Inst. & Cncl. Interm. Thems	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980	124,980
Total Core Thems	41,796,608	41,386,874	41,342,148	41,596,221	42,022,242	42,622,248	43,273,868	43,796,975	44,098,768	44,621,263	45,322,962	46,211,262	46,828,680	47,445,911	48,124,180	48,868,680	49,572,244	50,312,248	51,084,150	51,892,248	52,735,943,114	53,619,150
Daily BaseLoad Thems	40,524	40,524	40,524	41,157	41,791	42,425	42,869	43,513	44,157	44,801	45,445	46,089	46,733	47,377	48,021	48,765	49,509	50,253	51,000	51,744	52,488	
Peak Day Thems	482,854	479,427	483,552	489,786	496,203	502,811	509,609	516,407	523,205	530,003	536,801	543,600	550,398	557,196	564,000	570,800	577,600	584,400	591,200	598,000	604,800	611,600
Thems Per Residential Customer	715	711	706	696	688	680	672	664	656	648	640	632	624	616	608	600	592	584	576	568	560	552
Thems Per Commercial Customer	3,329	3,317	3,285	3,275	3,282	3,305	3,319	3,325	3,333	3,335	3,370	3,377	3,383	3,408	3,430	3,441	3,455	3,476	3,490	3,503	3,518	
Thems Per Industrial Customer	17,627	17,628	17,628	17,611	17,651	17,664	18,010	18,046	18,082	18,268	18,268	18,302	18,341	18,433	18,525	18,617	18,683	18,765	18,855	18,925	19,024	
Residential Customers	35,082	34,736	35,079	35,521	35,976	38,446	38,531	37,430	37,544	39,015	39,015	40,741	41,345	41,965	42,608	43,262	43,936	44,625	45,400	46,188	46,980	
Commercial Customers	4,476	4,483	4,544	4,619	4,695	4,772	4,850	4,928	5,006	5,086	5,166	5,249	5,328	5,409	5,491	5,574	5,658	5,741	5,826	5,911	6,001	
Industrial Customers	93	91	86	81	76	72	68	65	61	58	55	53	50	48	46	44	42	40	39	37	36	
Intermittent Customers	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total Core Customers	39,653	39,372	39,710	40,222	40,740	41,262	41,850	42,423	43,013	43,618	44,230	44,878	45,529	46,199	46,884	47,580	48,300	49,044	49,801	50,573	51,400	
Sunnyside																						
Total Thems Pct. Growth	-4.67%	-0.89%	-1.23%	-0.60%	-0.60%	0.49%	0.40%	0.04%	0.05%	0.45%	0.36%	0.05%	-0.04%	0.48%	0.78%	0.13%	0.19%	0.43%	0.29%	0.13%	0.18%	
Residential Thems	3,197,653	3,169,481	3,149,054	3,140,502	3,145,002	3,169,170	3,201,002	3,215,900	3,226,711	3,249,944	3,277,321	3,288,970	3,294,086	3,315,842	3,371,883	3,385,290	3,399,342	3,425,330	3,441,564	3,453,105	3,462,500	
Commercial Thems	4,655,960	4,643,496	4,650,893	4,679,644	4,689,200	4,719,176	4,767,412	4,844,009	4,879,597	4,959,587	5,019,557	5,080,854	5,098,235	5,189,718	5,126,896	5,156,432	5,189,718	5,216,971	5,241,974	5,265,450		
Industrial Thems	1,345,568	1,295,061	1,193,718	1,102,884	1,041,983	1,004,764	958,629	918,560	893,103	861,536	823,448	785,576	767,055	745,497	715,793	689,734	670,289	645,895	621,516	603,338		
Ind., Inst. & Cncl. Interm. Thems	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	77,359	
Total Core Thems	9,266,540	9,184,387	9,071,424	9,016,302	9,055,944	9,092,417	9,202,248	9,186,928	9,142,471	9,079,827	9,015,800	8,942,111	8,872,840	8,802,111	8,724,111	8,650,111	8,582,111	8,514,111	8,446,111	8,378,111	8,310,111	
Daily BaseLoad Thems	6,482	6,435	6,355	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	6,314	
Peak Day Thems	97,743	97,694	98,051	98,504	98,946	99,378	99,796	100,203	100,596	100,979	101,354	101,720	102,078	102,426	102,765	103,094	103,414	103,724	104,024	104,314	104,594	
Thems Per Residential Customer	608	605	600	595	590	585	580	575	570	565	560	555	550	545	540	535	530	525	520	515	510	
Thems Per Commercial Customer	3,513	3,508	3,493	3,488	3,494	3,506	3,514	3,518	3,523	3,535	3,543	3,548	3,551	3,565	3,576	3,582	3,589	3,600	3,607	3,614	3,621	
Thems Per Industrial Customer	28,496	27,888	26,435	25,091	23,645	22,644	21,444	20,244	19,044	17,844	16,644	15,444	14,244	13,044	11,844	10,644	9,444	8,244				

Cascade Natural Gas
2010 IRP Demand Forecast
Low Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Yakima																						
Total Thems Pct. Growth	-3.06%	-0.91%	-0.57%	-0.03%	0.36%	0.79%	0.79%	0.44%	0.42%	0.72%	0.69%	0.38%	0.28%	0.70%	1.11%	0.45%	0.68%	0.46%	0.38%	0.41%	0.41%	
Residential Thems	13,278,424	13,117,300	13,083,114	13,121,319	13,209,139	13,371,763	13,566,142	13,809,020	14,108,251	14,358,322	14,580,222	14,784,333	14,962,222	15,116,222	15,248,222	15,358,222	15,448,222	15,528,222	15,608,222	15,688,222	15,768,222	15,848,222
Commercial Thems	12,427,778	12,345,282	12,329,475	12,372,790	12,445,498	12,542,070	12,650,196	12,776,299	12,920,244	13,082,544	13,262,544	13,460,244	13,676,244	13,910,244	14,162,244	14,432,244	14,718,244	15,020,244	15,338,244	15,672,244	16,022,244	16,388,244
Industrial Thems	2,102,386	2,070,682	2,060,296	2,078,699	2,109,699	2,151,344	2,204,699	2,270,244	2,348,244	2,438,244	2,540,244	2,654,244	2,780,244	2,918,244	3,068,244	3,230,244	3,404,244	3,590,244	3,788,244	3,998,244	4,222,244	4,460,244
Ind., Inst. & Cncl. Intermup. Thems	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484	150,484
Total Core Thems	28,787,072	28,523,828	28,362,228	28,354,292	28,456,311	28,651,699	28,907,244	29,155,811	29,365,901	29,540,279	29,682,010	29,784,279	29,846,446	29,872,465	29,872,465	29,846,446	29,784,279	29,682,010	29,540,279	29,365,901	29,155,811	28,907,244
Daily BaseLoad Thems	20,786	20,595	20,479	20,473	20,547	20,709	20,872	20,964	21,052	21,133	21,203	21,267	21,325	21,377	21,423	21,460	21,489	21,512	21,530	21,545	21,558	21,569
Peak Day Thems	305,405	303,516	303,397	308,236	311,077	313,913	316,750	319,539	322,244	324,888	327,488	329,950	332,288	334,519	336,650	338,688	340,633	342,488	344,250	345,922	347,500	348,988
Thems Per Residential Customer	693	690	683	679	677	678	682	682	683	685	686	686	686	686	686	686	686	686	686	686	686	686
Thems Per Commercial Customer	3,825	3,816	3,792	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779	3,779
Thems Per Industrial Customer	37,258	36,894	36,993	37,349	37,541	37,779	38,064	38,399	38,784	39,219	39,704	40,239	40,824	41,459	42,144	42,879	43,664	44,500	45,385	46,320	47,305	48,340
Residential Customers	19,148	19,022	19,146	19,333	19,521	19,709	19,896	20,082	20,268	20,454	20,639	20,825	21,010	21,194	21,378	21,561	21,744	21,927	22,110	22,293	22,476	22,659
Commercial Customers	3,249	3,225	3,251	3,274	3,297	3,319	3,341	3,363	3,383	3,404	3,424	3,444	3,464	3,483	3,502	3,520	3,538	3,555	3,572	3,588	3,606	3,624
Industrial Customers	79	79	79	76	75	74	73	71	70	69	68	67	66	66	65	64	63	63	62	61	61	61
Intermupible Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Core Customers	22,478	22,339	22,478	22,687	22,896	23,105	23,314	23,519	23,725	23,931	24,135	24,339	24,543	24,746	24,948	25,150	25,350	25,549	25,747	25,944	26,141	26,338
Baker																						
Total Thems Pct. Growth	-0.62%	-0.98%	-0.93%	-0.72%	-0.51%	-0.19%	-0.50%	-0.21%	-0.22%	-0.03%	-0.01%	-0.10%	-0.16%	0.01%	0.46%	0.90%	0.00%	0.00%	0.16%	0.08%	0.05%	0.19%
Residential Thems	2,284,152	2,263,756	2,253,276	2,245,100	2,242,445	2,249,818	2,260,917	2,266,340	2,268,458	2,277,053	2,287,820	2,299,271	2,299,791	2,300,295	2,301,688	2,303,072	2,304,446	2,305,810	2,307,174	2,308,538	2,309,902	2,311,266
Commercial Thems	1,713,071	1,687,612	1,647,866	1,627,488	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000	1,628,000
Industrial Thems	79,485	78,241	78,894	78,617	79,843	82,200	84,949	87,662	90,375	93,088	95,801	98,514	101,227	103,940	106,653	109,366	112,079	114,792	117,505	120,218	122,931	125,644
Ind., Inst. & Cncl. Intermup. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Thems	4,076,708	4,029,629	3,980,146	3,950,172	3,900,445	3,906,818	3,924,967	3,944,340	3,963,713	3,983,086	3,999,240	4,015,271	4,031,202	4,047,133	4,063,064	4,078,995	4,094,926	4,110,857	4,126,788	4,142,719	4,158,650	4,174,581
Daily BaseLoad Thems	3,315	3,281	3,253	3,229	3,207	3,187	3,167	3,147	3,127	3,107	3,087	3,067	3,047	3,027	3,007	2,987	2,967	2,947	2,927	2,907	2,887	2,867
Peak Day Thems	26,165	26,190	26,220	26,254	26,290	26,343	26,403	26,470	26,542	26,618	26,698	26,782	26,869	26,949	27,032	27,118	27,206	27,296	27,388	27,482	27,578	27,674
Thems Per Residential Customer	672	669	665	661	658	655	652	649	646	643	640	637	634	631	628	625	622	619	616	613	610	607
Thems Per Commercial Customer	3,609	3,589	3,564	3,542	3,523	3,508	3,490	3,471	3,452	3,435	3,418	3,399	3,379	3,358	3,336	3,313	3,290	3,267	3,244	3,221	3,198	3,175
Thems Per Industrial Customer	27,889	27,680	27,540	27,368	27,166	26,934	26,672	26,380	26,058	25,716	25,354	24,972	24,570	24,148	23,706	23,244	22,762	22,260	21,738	21,196	20,634	20,052
Residential Customers	3,369	3,352	3,339	3,334	3,330	3,326	3,322	3,318	3,314	3,310	3,306	3,302	3,298	3,294	3,290	3,286	3,282	3,278	3,274	3,270	3,266	3,262
Commercial Customers	475	465	462	462	462	463	463	463	464	464	464	464	464	464	464	464	464	464	464	464	464	464
Industrial Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Intermupible Customers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Customers	3,847	3,839	3,835	3,830	3,826	3,823	3,820	3,817	3,814	3,811	3,808	3,805	3,802	3,799	3,796	3,793	3,790	3,787	3,784	3,781	3,778	3,775
Ontario																						
Total Thems Pct. Growth	-2.29%	-0.34%	-0.27%	-1.53%	-0.04%	1.24%	0.83%	-0.10%	0.21%	1.05%	0.64%	-0.21%	0.47%	1.13%	1.55%	0.04%	0.19%	0.57%	0.21%	0.09%	0.10%	
Residential Thems	2,096,226	2,081,253	2,053,436	2,032,748	2,026,329	2,038,114	2,052,020	2,068,116	2,084,827	2,102,736	2,121,488	2,141,520	2,162,480	2,184,000	2,207,000	2,231,500	2,257,500	2,284,000	2,311,000	2,338,500	2,366,500	2,395,000
Commercial Thems	2,533,207	2,527,024	2,428,110	2,387,946	2,374,028	2,422,332	2,446,232	2,443,391	2,447,216	2,451,238	2,454,238	2,457,238	2,460,238	2,463,238	2,466,238	2,469,238	2,472,238	2,475,238	2,478,238	2,481,238	2,484,238	2,487,238
Industrial Thems	386,533	400,244	409,579	399,170	397,536	396,989	396,627	396,381	396,144	395,916	395,698	395,480	395,262	395,044	394,826	394,608	394,390	394,172	393,954	393,736	393,518	393,300
Ind., Inst. & Cncl. Intermup. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Thems	5,015,966	5,008,521	4,891,125	4,720,864	4,700,893	4,861,456	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276	4,901,276
Daily BaseLoad Thems	3,735	3,722	3,621	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566	3,566
Peak Day Thems	30,676	30,659	30,627	30,592	31,088	31,115	31,272	31,388	31,496	31,616	31,741	31,872	32,008	32,148	32,292	32,440	32,592	32,748	32,908	33,072	33,240	33,412
Thems Per Residential Customer	577	571	562	554	551	552	555	554	552	553	555	553	550	550	550	550	550	550	550	550	550	550
Thems Per Commercial Customer	2,918	2,888	2,740	2,684	2,689	2,744	2,769	2,781	2,792	2,806	2,816	2,826	2,836	2,846	2,856	2,866	2,876	2,886	2,896	2,906	2,916	2,926
Thems Per Industrial Customer	55,474	54,158	52,064	50,149	48,460	47,841	48,445	49,081	49,757	50,473	51,229	52,025	52,861	53,737	54,653	55,609	56,605	57,641	58,717	59,833	60,989	62,185
Residential Customers	3,624	3,585	3,558	3,556	3,579	3,592	3,602	3,611	3,619	3,627	3,635	3,643	3,651	3,659	3,667	3,675	3,683	3,691	3,699	3,707	3,715	3,723
Commercial Customers	869	861	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863
Industrial Customers	7	7																				

Cascade Natural Gas
2010 IRP Demand Forecast
Low Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Washington																						
Total Thems Pct. Growth	-3.33%	-0.26%	0.56%	1.09%	1.34%	1.60%	1.57%	1.33%	1.31%	1.50%	1.45%	1.29%	1.17%	1.44%	1.65%	1.22%	1.23%	1.36%	1.22%	1.16%	1.16%	
Residential Thems	117,675,313	117,185,863	118,156,707	119,691,293	121,460,181	123,926,554	125,873,964	127,836,925	129,722,727	131,663,415	134,071,536	135,996,021	137,803,467	139,624,331	142,745,698	144,726,561	146,721,262	148,967,643	151,023,227	152,989,553	154,793,156	
Commercial Thems	90,459,249	90,861,020	91,602,776	92,588,847	94,483,567	96,153,293	97,718,131	99,160,905	100,615,522	102,211,504	103,715,356	105,107,200	106,457,568	108,050,130	109,577,500	110,944,043	112,332,489	113,805,204	115,161,662	116,480,986	117,793,393	
Industrial Thems	14,735,275	14,401,524	13,796,456	13,308,193	13,051,694	12,861,190	12,820,247	12,956,207	12,403,383	12,343,960	12,256,622	12,066,915	11,902,384	11,588,400	11,286,598	11,792,242	11,726,413	11,732,072	11,684,126	11,633,127	11,621,294	
Ind., Inst., & Cmnd. Intermup. Thems	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	
Total Core Thems	224,913,648	224,482,617	225,542,780	227,992,133	231,038,793	234,145,817	236,433,253	241,616,847	244,775,843	248,442,489	252,266,924	255,266,946	258,197,220	261,146,671	266,246,605	268,487,256	272,817,975	276,538,729	279,860,825	283,137,476	286,418,654	
Daily Baseoad Thems	206,337	205,850	207,117	209,483	212,385	215,875	219,343	222,383	225,388	228,268	232,233	235,231	238,090	241,603	245,643	248,736	251,895	255,409	258,607	261,693	264,834	
Peak Day Thems	2,731,010	2,733,959	2,776,150	2,826,860	2,879,185	2,932,147	2,985,621	3,039,611	3,094,232	3,149,445	3,205,362	3,261,870	3,319,035	3,376,797	3,435,123	3,494,098	3,553,603	3,613,760	3,674,572	3,736,409	3,798,488	
Thems Per Residential Customer	699	696	692	688	685	685	685	683	681	680	679	677	674	672	674	672	669	666	666	663	660	
Thems Per Commercial Customer	3,777	3,768	3,748	3,734	3,697	3,726	3,720	3,701	3,687	3,678	3,666	3,662	3,656	3,644	3,634	3,626	3,618	3,613	3,603	3,593	3,582	
Thems Per Industrial Customer	40,405	40,059	39,220	39,001	39,265	39,520	40,327	40,457	40,655	41,202	41,544	41,840	42,171	42,741	42,741	42,887	43,112	43,535	43,737	43,887	44,093	
Residential Customers	168,239	168,276	170,792	173,983	177,216	180,483	183,625	187,157	190,547	193,981	197,458	200,984	204,551	208,161	211,810	215,505	219,239	223,019	226,845	230,718	234,678	
Commercial Customers	23,551	24,061	24,442	24,856	25,351	25,868	26,266	26,725	27,184	27,645	28,108	28,574	29,040	29,508	29,976	30,446	30,916	31,387	31,859	32,332	32,798	
Industrial Customers	364	360	351	341	333	325	318	311	305	300	295	290	286	282	278	275	272	269	267	265	264	
Interupible Customers	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
Total Core Customers	192,269	192,711	195,599	199,235	202,915	206,640	210,404	214,207	218,051	221,940	225,875	229,863	233,892	237,966	242,080	246,241	250,442	254,690	258,986	263,330	267,735	
Oregon																						
Total Thems Pct. Growth	-1.68%	0.42%	0.38%	1.09%	1.60%	2.29%	2.19%	1.94%	1.60%	2.07%	1.95%	1.49%	1.33%	2.01%	2.45%	1.50%	1.50%	1.88%	1.54%	1.42%	1.45%	
Residential Thems	39,599,925	39,671,729	39,882,259	40,297,135	40,862,266	41,664,775	42,570,258	43,290,074	43,895,867	44,695,528	45,554,131	46,209,320	46,783,253	47,599,593	48,544,881	49,538,458	50,241,958	51,119,944	51,863,096	52,542,963	53,255,800	
Commercial Thems	28,064,683	28,981,024	29,185,179	29,671,518	30,384,440	31,297,225	32,085,177	32,730,620	33,411,154	34,292,299	35,064,964	35,794,219	36,395,901	37,247,267	38,196,140	38,813,526	39,549,857	40,422,451	41,194,797	41,894,062	42,697,096	
Industrial Thems	3,210,221	3,097,353	2,922,177	2,803,043	2,733,301	2,702,275	2,654,473	2,587,216	2,530,258	2,503,563	2,463,048	2,348,183	2,335,238	2,313,705	2,276,907	2,236,200	2,216,281	2,183,838	2,148,965	2,124,965	2,124,965	
Ind., Inst., & Cmnd. Intermup. Thems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Core Thems	71,415,038	71,716,086	71,989,615	72,771,669	73,980,207	75,664,474	77,389,999	78,377,086	79,637,278	81,491,880	83,882,143	84,320,372	85,438,336	87,152,166	88,264,727	90,622,991	92,607,115	93,397,275	95,261,730	96,546,199	97,847,852	
Daily Baseoad Thems	62,829	62,251	62,478	63,146	64,179	65,619	67,030	68,115	69,191	71,667	73,028	73,981	75,444	77,272	78,414	79,613	81,050	82,322	83,470	84,663	84,663	
Peak Day Thems	818,347	822,742	835,752	851,037	866,319	881,565	896,832	912,069	927,500	942,415	957,556	972,747	987,880	1,002,948	1,018,040	1,033,093	1,048,106	1,062,999	1,077,942	1,092,808	1,107,941	
Thems Per Residential Customer	716	722	716	712	716	712	716	712	716	712	716	712	716	712	716	712	716	712	716	712	716	
Thems Per Commercial Customer	3,097	3,095	3,054	3,039	3,047	3,074	3,089	3,090	3,094	3,117	3,130	3,130	3,128	3,155	3,176	3,181	3,191	3,211	3,220	3,227	3,238	
Thems Per Industrial Customer	39,238	39,728	37,214	36,556	36,222	36,370	36,200	36,096	36,256	36,180	36,060	36,270	36,093	36,518	36,285	36,708	37,131	37,573	38,025	38,495	38,995	
Residential Customers	54,634	54,884	55,678	56,613	57,552	58,489	59,431	60,372	61,312	62,252	63,192	64,138	65,083	66,024	66,970	67,916	68,858	69,804	70,750	71,695	72,666	
Commercial Customers	9,237	9,363	9,556	9,763	10,100	10,387	10,593	10,797	11,001	11,203	11,405	11,606	11,805	12,003	12,200	12,394	12,588	12,780	12,971	13,154	13,154	
Industrial Customers	82	80	78	77	75	74	73	72	72	71	71	70	70	69	69	69	69	70	70	70	70	
Interupible Customers																						
Total Core Customers	63,952	64,327	65,313	66,454	67,600	68,744	69,891	71,038	72,190	73,334	74,466	75,614	76,758	77,898	79,042	80,186	81,322	82,461	83,599	84,735	85,890	
System																						
Total Thems Pct. Growth	-2.94%	-0.10%	0.52%	1.09%	1.41%	1.77%	1.72%	1.41%	1.38%	1.84%	1.58%	1.31%	1.21%	1.58%	1.85%	1.20%	1.31%	1.45%	1.30%	1.22%	1.23%	
Residential Thems	157,275,238	156,823,592	159,037,666	159,988,428	162,322,547	165,257,329	168,444,222	171,096,939	173,616,594	176,549,343	179,626,026	182,205,371	184,586,720	187,493,924	191,500,579	194,265,019	196,962,320	200,066,687	202,806,323	205,531,617	208,190,000	
Commercial Thems	119,084,132	119,642,023	120,787,956	122,830,365	124,867,607	127,400,317	129,803,308	131,891,555	134,007,076	136,503,903	138,780,320	140,811,419	142,763,458	145,297,486	147,703,640	149,757,668	151,882,346	154,227,655	156,136,460	158,339,048	160,390,430	
Industrial Thems	17,815,696	17,499,277	16,672,864	16,111,228	15,794,995	15,668,435	15,463,820	15,172,423	14,533,641	14,647,513	14,698,869	14,476,718	14,251,567	14,243,838	14,203,302	14,063,749	13,966,613	13,948,352	13,782,123	13,746,259	13,782,123	
Ind., Inst., & Cmnd. Intermup. Thems	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	
Total Core Thems	296,288,877	295,988,703	297,532,395	300,763,829	305,618,960	310,469,882	315,745,162	320,942,727	324,613,121	329,934,569	335,139,966	339,927,318	343,635,596	349,988,659	355,251,331	360,128,427	364,845,088	370,296,595	375,994,555	379,686,995	384,366,900	
Daily Baseoad Thems	288,366	288,102	289,596	272,829	276,844	281,495	286,379	290,478	294,659	299,422	304,200	308,257	312,071	317,447	322,915	327,151	331,077	336,499	340,590	345,163	349,497	
Peak Day Thems	3,549,657	3,556,701	3,610,942	3,677,896	3,745,504	3,813,712	3,882,453	4,021,482	4,091,861													

Cascade Natural Gas
2010 IRP Demand Forecast
High Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Aberdeen																					
Total Themes Pct. Growth	3.31%	0.93%	0.42%	0.52%	0.35%	0.28%	0.46%	0.44%	0.33%	0.24%	0.38%	0.37%	0.33%	0.31%	0.46%	0.28%	0.22%	0.19%	0.23%	0.21%	0.17%
Daily BaseLoad Themes	3,683,719	3,737,429	3,781,929	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252	3,783,252
Peak Day Themes	5,193,136	5,151,781	5,243,259	5,138,010	5,355,862	5,363,344	5,387,835	5,420,174	5,465,594	5,474,525	5,488,123	5,528,145	5,581,040	5,580,810	5,590,538	5,621,901	5,645,896	5,644,456	5,679,277	5,705,265	5,729,332
Commercial Themes	387,332	386,470	352,913	334,263	314,543	306,287	298,026	285,070	273,136	267,332	268,667	264,833	264,833	260,840	255,862	214,545	208,260	203,843	203,843	188,177	182,630
Industrial Themes	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238	739,238
Int. Inst. & Cncd. Interp. Themes	16,169,834	16,215,564	16,111,289	16,169,834	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216
Total Core Customers	16,169,834	16,215,564	16,111,289	16,169,834	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216	16,265,216
Daily BaseLoad Themes	8,649	8,568	8,605	8,649	8,679	8,704	8,744	8,782	8,812	8,833	8,866	8,899	8,929	8,959	8,989	9,005	9,026	9,043	9,063	9,082	9,108
Peak Day Themes	82,210	81,600	82,065	82,529	83,118	83,517	83,916	84,315	84,714	85,113	85,512	85,911	86,310	86,709	87,108	87,507	87,906	88,305	88,704	89,103	89,502
Commercial Themes	729	724	718	712	709	706	703	700	697	694	691	688	685	682	679	676	673	670	667	664	661
Industrial Themes	4,307	4,273	4,239	4,205	4,171	4,137	4,103	4,069	4,035	4,001	3,967	3,933	3,900	3,866	3,832	3,798	3,764	3,730	3,696	3,662	3,628
Int. Inst. & Cncd. Interp. Themes	24,888	23,818	21,881	20,708	20,161	20,086	19,785	19,023	18,261	17,785	17,085	16,383	15,681	14,979	14,277	13,575	12,873	12,171	11,469	10,767	10,065
Residential Customers	5,281	5,243	5,270	5,314	5,357	5,399	5,440	5,479	5,517	5,555	5,591	5,627	5,661	5,694	5,726	5,757	5,787	5,816	5,844	5,871	5,897
Commercial Customers	1,103	1,083	1,070	1,129	1,142	1,156	1,169	1,182	1,195	1,208	1,222	1,235	1,248	1,261	1,274	1,287	1,299	1,312	1,324	1,334	1,348
Industrial Customers	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Interruption Customers	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total Core Customers	6,401	6,334	6,339	6,447	6,503	6,528	6,513	6,663	6,716	6,767	6,818	6,869	6,920	6,971	7,022	7,073	7,124	7,175	7,226	7,277	7,328
Bellingham																					
Total Themes Pct. Growth	2.61%	0.79%	1.27%	1.39%	1.69%	2.19%	2.02%	1.73%	1.71%	1.87%	1.72%	1.80%	1.39%	1.69%	1.69%	1.69%	1.33%	1.42%	1.25%	1.17%	1.12%
Daily BaseLoad Themes	30,743,274	31,055,919	31,683,439	32,401,528	33,132,053	33,863,611	34,639,154	35,349,898	36,038,346	36,741,660	37,441,468	38,090,743	38,730,010	39,384,270	40,035,561	40,714,275	41,318,408	41,934,255	42,576,711	43,217,694	43,825,319
Peak Day Themes	14,876,472	15,054,918	15,284,304	15,874,448	16,468,450	16,920,233	17,300,326	17,658,027	18,038,346	18,420,174	18,803,468	19,188,220	19,574,430	19,961,990	20,350,910	20,741,200	21,132,850	21,525,960	21,920,530	22,317,560	22,717,000
Commercial Themes	6,285,603	6,202,150	6,012,872	5,847,294	5,598,385	5,128,844	4,620,220	4,262,068	3,943,728	3,654,798	3,397,883	3,172,842	2,987,879	2,847,887	2,737,332	2,641,047	2,558,214	2,480,819	2,407,851	2,338,919	2,273,033
Industrial Themes	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423	189,423
Int. Inst. & Cncd. Interp. Themes	32,074,803	32,482,479	33,199,059	34,085,484	35,169,311	36,388,117	37,762,242	39,211,962	40,824,617	42,561,271	44,428,139	46,425,317	48,552,610	50,819,340	53,222,732	55,773,047	58,466,581	61,304,514	64,299,965	67,466,636	70,818,669
Total Core Customers	32,074,803	32,482,479	33,199,059	34,085,484	35,169,311	36,388,117	37,762,242	39,211,962	40,824,617	42,561,271	44,428,139	46,425,317	48,552,610	50,819,340	53,222,732	55,773,047	58,466,581	61,304,514	64,299,965	67,466,636	70,818,669
Daily BaseLoad Themes	51,266	51,667	52,325	53,246	54,304	55,483	56,811	57,603	58,586	60,706	61,615	62,744	63,520	64,587	65,446	66,211	67,258	68,056	68,856	69,656	70,706
Peak Day Themes	685,712	708,233	724,862	767,058	788,956	788,956	832,328	877,139	899,987	923,098	946,613	970,226	994,250	1,018,455	1,042,864	1,067,798	1,092,590	1,118,355	1,144,229	1,169,950	1,194,200
Commercial Themes	756	752	749	744	740	736	732	727	722	717	712	706	699	694	689	683	678	673	668	663	658
Industrial Themes	3,157	3,137	3,101	3,044	3,004	2,988	2,965	2,932	2,904	2,871	2,843	2,812	2,782	2,752	2,722	2,692	2,662	2,632	2,602	2,572	2,542
Int. Inst. & Cncd. Interp. Themes	157,002	158,859	161,488	163,213	165,500	168,155	170,916	173,256	175,250	176,953	178,350	179,550	180,550	181,350	182,000	182,500	182,900	183,200	183,500	183,800	184,100
Residential Customers	40,643	41,244	42,359	43,054	44,757	46,058	47,355	48,630	49,942	51,272	52,621	53,989	55,377	56,785	58,210	59,654	61,116	62,600	64,103	65,627	67,181
Commercial Customers	4,712	4,298	4,530	4,072	3,308	3,500	3,794	3,925	4,062	4,207	4,356	4,507	4,657	4,807	4,957	5,107	5,257	5,407	5,557	5,707	5,857
Industrial Customers	40	40	39	38	38	38	38	38	37	37	37	36	36	36	36	36	36	36	36	36	35
Interruption Customers	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Core Customers	48,238	48,889	47,260	48,068	50,054	51,497	52,816	54,313	55,766	57,237	58,727	60,236	61,764	63,311	64,878	66,466	68,075	69,706	71,359	73,034	74,804
Bremerton																					
Total Themes Pct. Growth	-1.55%	1.21%	2.62%	3.02%	3.05%	3.08%	3.02%	2.92%	2.87%	2.88%	2.87%	2.89%	2.75%	2.73%	2.72%	2.61%	2.58%	2.59%	2.52%	2.40%	2.44%
Daily BaseLoad Themes	20,381,118	20,560,809	21,041,755	21,614,473	22,193,468	22,791,859	23,396,223	23,994,931	24,600,504	25,199,520	25,814,837	26,423,885	27,030,377	27,602,213	28,209,512	28,814,130	29,438,716	30,071,965	30,718,197	31,424,542	32,093,319
Peak Day Themes	9,352,208	9,535,915	9,851,170	10,228,987	10,630,101	11,063,517	11,521,027	12,005,877	12,517,023	13,054,600	13,620,100	14,211,105	14,824,130	15,458,673	16,124,310	16,822,500	17,554,631	18,326,910	19,143,840	19,999,980	20,899,980
Commercial Themes	12,146	12,389	11,126	13,528	13,472	13,042	12,746	12,600	12,147	11,742	11,400	11,102	11,028	10,863	10,301	9,970	9,513	9,184	8,878	8,619	8,015
Industrial Themes	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604	37,604
Int. Inst. & Cncd. Interp. Themes	30,163,065	30,468,636	31,263,075	32,211,611	33,194,644	34,215,734	35,240,420	36,277,323	37,316,880	38,369,388	39,434,931	41,680,887	42,860,977	43,972,013	45,124,922	46,318,510	47,554,265	48,833,810	50,158,840	51,541,920	52,984,640
Total Core Customers	30,163,065	30,468,636	31,263,075	32,211,611	33,194,644	34,215,734	35,240,420	36,277,323	37,316,880	38,369,388	39,434,931	41,680,887	42,860,977	43,972,013	45,124,922	46,318,510	47,554,265	48,833,810	50,158,840	51,541,920	52,984,640
Daily BaseLoad Themes	33,927	34,337	35,235	37,411	37,411	37,411	38,726	40,885	42,957	43,269	44,496										

Cascade Natural Gas
2010 IRP Demand Forecast
High Scenario

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Washington																					
Total Themes Pct. Growth	-3.49%	0.27%	1.90%	1.82%	1.87%	2.13%	2.10%	1.96%	1.83%	2.02%	1.97%	1.77%	1.69%	1.96%	2.18%	1.74%	1.75%	1.88%	1.74%	1.68%	1.69%
Residential Themes	118,026,759	119,377,785	121,201,426	123,614,953	126,284,119	129,337,786	132,800,453	136,683,120	140,905,787	145,488,454	150,431,121	155,743,788	161,426,455	167,489,122	173,931,789	180,754,456	187,967,123	195,569,790	203,562,457	211,955,124	220,747,791
Commercial Themes	91,034,236	91,625,469	92,953,275	94,700,768	96,825,257	99,300,746	102,125,235	105,300,724	108,843,213	112,765,702	117,088,191	121,810,680	126,933,169	132,455,658	138,378,147	144,700,636	151,423,125	158,545,614	166,068,103	174,000,592	182,343,081
Industrial Themes	14,726,608	14,414,056	13,760,126	13,025,196	12,200,266	11,300,336	10,350,406	9,375,476	8,385,546	7,380,616	6,360,686	5,330,756	4,290,826	3,250,896	2,210,966	1,170,036	70,106	20,176	20,176	20,176	20,176
Incl. Int. & Cntrl. Interrup. Themes	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811
Total Core Themes	236,520,344	237,451,681	239,844,641	243,473,718	248,330,795	254,034,336	260,700,810	268,380,304	277,149,311	287,014,318	298,144,325	310,578,332	324,412,339	339,746,346	356,580,353	375,014,360	395,148,367	417,082,374	440,916,381	466,750,388	494,584,395
Daily BaseLoad Themes	208,194	209,867	211,320	214,909	219,074	223,979	229,724	236,309	243,744	252,029	261,164	271,149	282,084	293,969	306,804	320,589	335,424	351,259	368,094	385,929	404,764
Peak Day Themes	2,761,037	2,763,806	2,846,615	2,921,096	2,997,205	3,075,014	3,154,334	3,235,301	3,317,899	3,402,295	3,488,500	3,576,666	3,666,600	3,758,510	3,852,181	3,947,811	4,045,413	4,145,004	4,246,575	4,350,126	4,455,657
Themes Per Residential Customer	699	696	690	682	671	658	641	621	600	577	554	531	508	485	462	439	416	393	370	347	324
Themes Per Commercial Customer	3,777	3,765	3,741	3,723	3,703	3,680	3,656	3,630	3,603	3,576	3,548	3,520	3,492	3,464	3,436	3,408	3,380	3,352	3,324	3,296	3,268
Themes Per Industrial Customer	40,431	40,133	39,334	38,534	37,734	36,934	36,134	35,334	34,534	33,734	32,934	32,134	31,334	30,534	29,734	28,934	28,134	27,334	26,534	25,734	24,934
Residential Customers	170,246	171,634	173,584	176,087	179,099	182,602	186,614	191,126	196,138	201,650	207,662	214,174	221,186	228,698	236,710	245,222	254,234	263,746	273,758	284,270	295,282
Commercial Customers	24,104	24,337	24,847	25,437	26,037	26,637	27,247	27,867	28,487	29,107	29,727	30,347	30,967	31,587	32,207	32,827	33,447	34,067	34,687	35,307	35,927
Industrial Customers	364	369	360	340	332	324	317	311	306	301	296	291	286	281	276	271	266	261	256	251	246
Interruptible Customers	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Total Core Customers	194,729	196,345	200,796	206,079	211,479	217,069	222,832	228,781	234,949	241,273	247,762	254,426	261,264	268,276	275,462	282,824	290,371	298,114	306,051	314,184	322,517
Oregon																					
Total Themes Pct. Growth	-0.42%	1.35%	1.21%	1.89%	2.41%	3.05%	3.80%	4.56%	5.32%	6.07%	6.82%	7.57%	8.32%	9.07%	9.82%	10.57%	11.32%	12.07%	12.82%	13.57%	14.32%
Residential Themes	40,043,008	40,415,969	40,866,246	41,727,843	42,828,160	44,176,077	45,772,514	47,518,951	49,415,388	51,461,825	53,658,262	56,004,699	58,501,136	61,147,573	63,944,010	66,890,447	69,986,884	73,233,321	76,629,758	80,176,195	83,872,632
Commercial Themes	29,033,211	29,751,271	30,243,378	31,004,599	31,997,692	33,205,695	34,589,916	36,156,137	37,902,358	39,828,579	41,944,799	44,261,020	46,777,241	49,493,462	52,419,683	55,555,904	58,902,125	62,458,346	66,224,567	70,200,788	74,387,009
Industrial Themes	3,256,710	3,143,306	2,966,246	2,845,862	2,775,686	2,745,946	2,699,084	2,631,720	2,552,561	2,462,144	2,355,334	2,232,144	2,103,554	1,969,564	1,831,174	1,688,184	1,540,194	1,387,204	1,229,214	1,066,224	899,234
Incl. Int. & Cntrl. Interrup. Themes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Themes	72,332,927	73,309,546	74,185,670	75,578,334	77,402,538	79,737,719	82,653,746	86,189,426	89,970,311	94,014,699	98,334,083	102,947,466	107,860,850	113,074,234	118,587,618	124,401,002	130,514,386	136,927,770	143,641,154	150,654,538	157,967,922
Daily BaseLoad Themes	62,623	63,626	64,378	65,662	67,124	68,768	70,592	72,596	74,780	77,144	79,688	82,402	85,286	88,340	91,564	94,958	98,522	102,256	106,170	110,264	114,538
Peak Day Themes	825,289	834,922	853,430	874,306	896,382	919,658	945,134	972,810	1,002,686	1,034,762	1,069,138	1,105,814	1,144,690	1,185,766	1,229,042	1,274,518	1,322,194	1,372,070	1,424,146	1,478,422	1,534,898
Themes Per Residential Customer	227	225	220	217	214	210	206	202	198	194	190	186	182	178	174	170	166	162	158	154	150
Themes Per Commercial Customer	3,108	3,149	3,124	3,121	3,142	3,162	3,208	3,221	3,233	3,239	3,213	3,204	3,167	3,144	3,121	3,098	3,075	3,052	3,029	3,006	2,983
Themes Per Industrial Customer	39,355	38,478	36,813	35,788	35,242	35,149	34,738	34,004	33,347	32,569	31,667	30,649	29,521	28,293	26,965	25,537	24,009	22,381	20,753	19,125	17,497
Residential Customers	35,177	35,722	36,867	38,203	39,736	41,469	43,402	45,535	47,868	50,401	53,134	56,067	59,200	62,533	66,066	69,799	73,732	77,965	82,498	87,331	92,464
Commercial Customers	4,262	4,449	4,660	4,933	5,266	5,659	6,102	6,595	7,138	7,731	8,374	9,067	9,810	10,603	11,446	12,339	13,282	14,275	15,318	16,411	17,554
Industrial Customers	83	82	81	80	79	78	78	77	77	77	77	77	78	78	79	79	80	81	82	83	84
Interruptible Customers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Core Customers	64,461	65,252	66,629	68,215	69,799	71,594	73,605	75,827	78,259	80,891	83,723	86,755	90,000	93,455	97,120	101,000	105,100	109,420	113,960	118,720	123,700
System																					
Total Themes Pct. Growth	2.00%	0.53%	1.12%	1.68%	2.00%	2.36%	3.30%	4.56%	6.07%	7.82%	9.82%	12.07%	14.57%	17.32%	20.32%	23.57%	27.07%	30.82%	34.82%	39.07%	43.57%
Residential Themes	159,078,196	160,750,654	162,187,696	165,342,736	168,913,347	173,137,568	177,961,800	183,406,032	189,480,264	196,204,496	203,588,728	211,632,960	220,347,192	229,731,424	239,795,656	250,539,888	261,964,120	274,068,352	286,852,584	300,326,816	314,491,048
Commercial Themes	120,067,447	121,376,740	123,196,653	125,705,387	128,622,449	131,914,588	135,606,727	139,702,866	144,209,005	149,135,144	154,481,283	160,257,422	166,473,561	173,139,700	180,255,839	187,832,000	195,868,139	204,364,278	213,320,417	222,736,556	232,612,695
Industrial Themes	17,863,218	17,501,762	16,726,372	15,866,552	14,866,732	13,766,912	12,587,092	11,347,272	10,067,452	8,787,632	7,507,812	6,227,992	4,948,172	3,668,352	2,388,532	1,108,712	20,892	20,892	20,892	20,892	20,892
Incl. Int. & Cntrl. Interrup. Themes	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811	2,033,811
Total Core Themes	299,042,772	301,663,977	304,144,532	309,251,333	315,436,639	322,848,979	331,604,827	341,794,315	353,433,803	366,633,291	381,352,779	407,674,267	435,796,755	466,731,243	501,571,731	541,411,219	586,250,707	636,090,195	690,929,683	750,769,171	816,608,659
Daily BaseLoad Themes	271,017	272,463	276,688	283,472	292,198	293,003	298,812	305,862	314,136	323,660	334,434	346,458	359,732	374,256	389,980	406,904	425,028	444,352	464,876	486,600	509,524
Peak Day Themes	3,386,223	3,413,747	3,700,640	3,795,403	3,892,602	4,002,364	4,124,626	4,259,388	4,407,650	4,568,412	4,742,674	4,930,436	5,132,698	5,349,460	5,581,722	5,829,484	6,092,746	6,371,508	6,665,770	6,975,532	7,300,794
Themes Per Residential Customer	708	703	698	688	680	669	657</														

Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

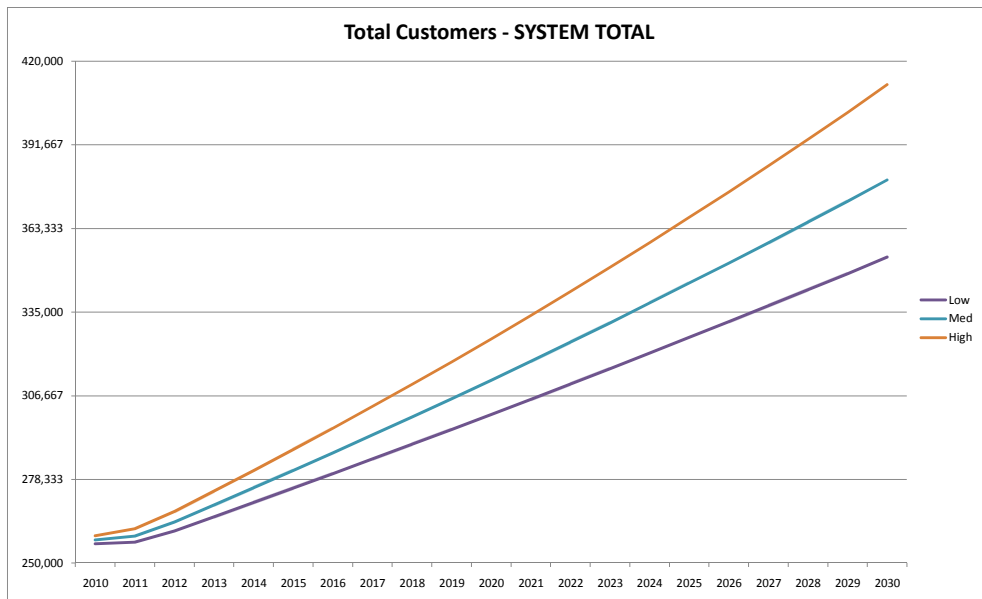
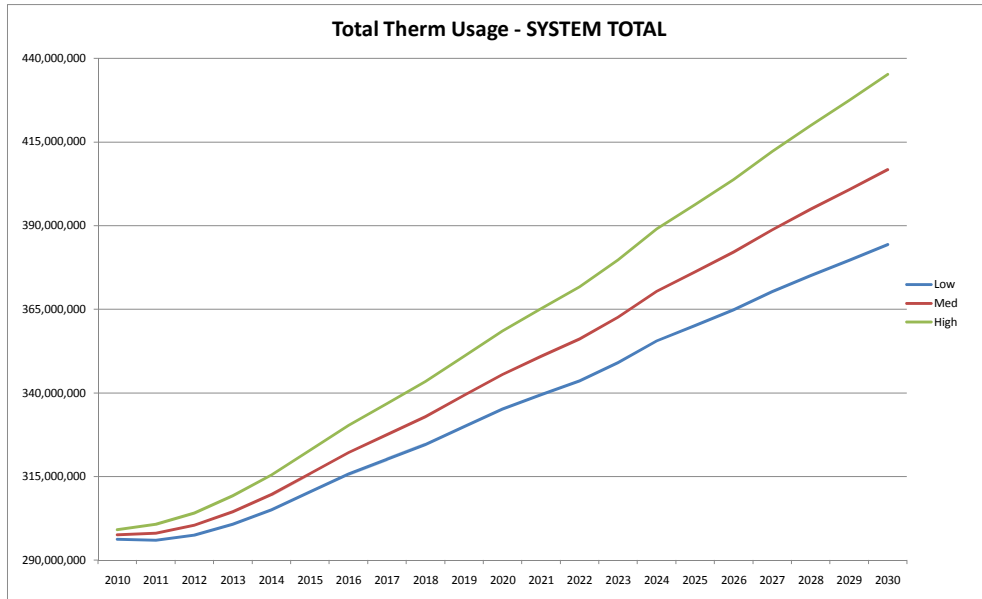
SYSTEM TOTAL

	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
2009	204,317,151	100,939,795	305,256,945	203,429,021	100,520,411	303,949,433	204,317,151	100,939,795	305,256,945	-2.93%	-2.96%	-2.94%	-2.09%	-2.12%	-2.10%	-1.99%	-2.00%	-2.00%
2010	198,335,356	97,953,521	296,288,877	199,179,282	98,387,640	297,566,922	200,241,632	98,921,139	299,162,771	-0.10%	-0.10%	-0.10%	0.17%	0.18%	0.18%	0.53%	0.54%	0.53%
2011	198,141,656	97,857,048	295,998,703	199,523,317	98,567,324	298,090,641	201,302,106	99,459,861	300,761,967	0.50%	0.56%	0.52%	0.76%	0.83%	0.79%	1.10%	1.18%	1.12%
2012	199,130,083	98,402,312	297,532,395	201,047,595	99,389,115	300,436,710	203,514,700	100,629,832	304,144,532	1.07%	1.13%	1.09%	1.33%	1.40%	1.35%	1.65%	1.73%	1.68%
2013	201,254,116	99,509,713	300,763,829	203,719,806	100,780,060	304,499,866	206,879,095	102,372,235	309,251,330	1.40%	1.44%	1.41%	1.66%	1.72%	1.68%	1.98%	2.04%	2.00%
2014	204,073,108	100,945,852	305,018,960	207,105,436	102,509,361	309,614,796	210,974,496	104,462,163	315,436,659	1.76%	1.78%	1.77%	2.02%	2.06%	2.03%	2.34%	2.38%	2.35%
2015	207,664,379	102,745,512	310,409,892	211,291,046	104,616,295	315,907,341	215,902,803	106,946,175	322,848,978	1.71%	1.73%	1.72%	1.97%	2.00%	1.98%	2.28%	2.32%	2.30%
2016	211,219,133	104,526,029	315,745,162	215,458,748	106,713,755	322,172,503	220,834,082	109,431,520	330,265,602	1.40%	1.43%	1.41%	1.66%	1.70%	1.67%	1.96%	2.02%	1.98%
2017	214,170,226	106,024,501	320,194,727	219,025,947	108,531,318	327,557,265	225,168,745	111,639,648	336,808,393	1.37%	1.40%	1.38%	1.63%	1.67%	1.64%	1.93%	1.99%	1.95%
2018	217,099,083	107,514,038	324,613,121	222,585,500	110,347,576	332,933,077	229,515,696	113,856,618	343,372,314	1.63%	1.65%	1.64%	1.89%	1.92%	1.90%	2.20%	2.24%	2.21%
2019	220,641,915	109,292,534	329,934,449	226,793,536	112,470,263	339,263,800	234,560,915	116,404,353	350,965,268	1.57%	1.59%	1.58%	1.83%	1.86%	1.84%	2.14%	2.18%	2.15%
2020	224,105,978	111,033,088	335,139,066	230,941,438	114,564,378	345,505,816	239,571,866	118,936,675	358,506,542	1.30%	1.33%	1.31%	1.56%	1.60%	1.57%	1.86%	1.92%	1.88%
2021	227,013,407	112,513,911	339,527,318	234,534,303	116,400,302	350,934,605	244,032,131	121,213,848	365,245,978	1.20%	1.24%	1.21%	1.45%	1.51%	1.47%	1.76%	1.82%	1.78%
2022	229,729,682	113,905,874	343,635,556	237,944,805	118,152,149	356,096,954	248,325,011	123,414,828	371,739,839	1.57%	1.59%	1.58%	1.83%	1.86%	1.84%	2.14%	2.18%	2.15%
2023	233,346,715	115,722,140	349,068,855	242,307,672	120,354,094	362,661,766	253,650,770	125,105,077	379,755,847	1.85%	1.85%	1.85%	2.12%	2.12%	2.12%	2.43%	2.45%	2.44%
2024	237,667,372	117,863,960	355,531,331	247,434,500	122,911,615	370,346,115	259,817,177	129,188,255	389,005,702	1.28%	1.31%	1.29%	1.54%	1.58%	1.55%	1.85%	1.90%	1.87%
2025	240,710,162	119,410,083	360,120,247	251,245,710	124,855,587	376,101,297	264,624,432	131,638,552	396,262,984	1.30%	1.33%	1.31%	1.56%	1.60%	1.58%	1.87%	1.92%	1.89%
2026	243,845,007	121,000,083	364,845,089	255,171,254	126,854,817	382,026,072	269,583,042	134,162,457	403,745,498	1.49%	1.51%	1.49%	1.75%	1.78%	1.76%	2.07%	2.10%	2.08%
2027	247,474,464	122,822,041	370,296,505	259,638,293	129,109,515	388,747,808	275,157,420	136,978,504	412,135,725	1.29%	1.32%	1.30%	1.55%	1.59%	1.56%	1.87%	1.91%	1.88%
2028	250,665,220	124,339,375	375,104,595	263,666,592	131,160,294	394,826,886	280,295,140	139,592,584	419,887,724	1.21%	1.24%	1.22%	1.47%	1.51%	1.49%	1.79%	1.83%	1.80%
2029	253,701,954	125,984,641	379,686,595	267,552,298	133,145,105	400,697,403	285,313,454	142,152,928	427,466,382	1.22%	1.26%	1.23%	1.49%	1.53%	1.50%	1.81%	1.85%	1.82%
2030	256,800,169	127,566,337	384,366,506	271,525,538	135,180,453	406,705,991	290,464,154	144,787,188	435,251,342									

	Peak Day - BaseLoad						Annual Change											
	Low		Medium		High		Low		Medium		High							
	BaseLoad	Peak	BaseLoad	Peak	BaseLoad	Peak	Base	Peak	Base	Peak	Base	Peak						
2009	276,547	3,293,024	3,569,571	275,398	3,275,852	3,551,251	276,547	3,293,024	3,569,571	-2.96%	-0.35%	-0.55%	-2.12%	0.67%	0.45%	-2.00%	0.68%	0.47%
2010	268,366	3,281,491	3,549,857	269,555	3,297,722	3,567,278	271,017	3,315,306	3,586,233	-0.10%	0.22%	0.19%	0.18%	0.54%	0.52%	0.54%	0.93%	0.90%
2011	268,102	3,288,600	3,556,701	270,047	3,315,624	3,585,672	272,493	3,346,254	3,618,747	0.56%	1.60%	1.53%	0.83%	1.94%	1.85%	1.18%	2.33%	2.25%
2012	269,595	3,341,346	3,610,942	272,299	3,379,806	3,652,105	275,698	3,424,347	3,700,405	1.13%	1.91%	1.85%	1.40%	2.25%	2.18%	1.73%	2.65%	2.58%
2013	272,629	3,405,267	3,677,896	276,110	3,455,718	3,731,828	280,472	3,514,931	3,795,403	1.44%	1.87%	1.84%	1.72%	2.20%	2.17%	2.04%	2.60%	2.56%
2014	276,564	3,468,940	3,745,504	280,848	3,531,862	3,812,709	286,198	3,606,405	3,892,602	1.78%	1.82%	1.82%	2.06%	2.16%	2.15%	2.38%	2.56%	2.54%
2015	281,495	3,532,218	3,813,712	286,620	3,608,084	3,894,704	293,003	3,698,604	3,991,607	1.73%	1.81%	1.80%	2.00%	2.14%	2.13%	2.32%	2.54%	2.52%
2016	286,373	3,596,080	3,882,453	292,366	3,685,382	3,977,748	299,812	3,792,541	4,092,354	1.43%	1.81%	1.78%	1.70%	2.15%	2.13%	2.02%	2.54%	2.50%
2017	290,478	3,661,251	3,951,729	297,346	3,764,492	4,061,839	305,862	3,888,966	4,194,848	1.40%	1.79%	1.77%	1.67%	2.13%	2.10%	1.99%	2.52%	2.48%
2018	294,559	3,726,923	4,021,482	302,322	3,844,618	4,146,940	311,936	3,987,131	4,299,067	1.65%	1.76%	1.75%	1.92%	2.09%	2.08%	2.24%	2.49%	2.46%
2019	299,432	3,792,429	4,091,861	306,138	3,925,083	4,233,221	318,916	4,086,305	4,405,221	1.59%	1.75%	1.74%	1.86%	2.08%	2.07%	2.18%	2.48%	2.45%
2020	304,200	3,858,658	4,162,858	313,875	4,006,793	4,320,668	325,854	4,187,452	4,513,306	1.33%	1.73%	1.72%	1.60%	2.09%	2.06%	1.91%	2.48%	2.44%
2021	308,257	3,926,360	4,234,617	318,905	4,090,580	4,409,485	332,093	4,291,497	4,623,590	1.24%	1.74%	1.71%	1.51%	2.08%	2.04%	1.82%	2.47%	2.43%
2022	312,071	3,994,845	4,306,916	323,705	4,175,706	4,499,411	338,123	4,397,648	4,735,771	1.59%	1.70%	1.69%	1.86%	2.04%	2.02%	1.88%	2.43%	2.41%
2023	317,047	4,062,968	4,379,745	329,327	4,260,727	4,590,464	345,499	4,504,401	4,849,894	1.85%	1.66%	1.68%	1.12%	2.00%	2.01%	2.45%	2.39%	2.39%
2024	322,915	4,130,247	4,453,162	336,744	4,345,959	4,682,704	353,941	4,612,093	4,966,034	1.31%	1.69%	1.66%	1.58%	2.03%	2.00%	1.90%	2.42%	2.38%
2025	327,151	4,200,040	4,527,191	342,070	4,434,121	4,776,191	360,654	4,723,642	5,084,296	1.33%	1.67%	1.64%	1.60%	2.01%	1.98%	1.92%	2.40%	2.36%
2026	331,507	4,270,133	4,601,640	347,547	4,523,154	4,870,702	367,568	4,836,846	5,204,414	1.51%	1.64%	1.63%	1.78%	1.98%	1.97%	2.10%	2.37%	2.35%
2027	336,499	4,340,260	4,676,759	353,725	4,612,810	4,966,535	375,283	4,951,484	5,326,767	1.32%	1.64%	1.62%	1.59%	1.98%	1.96%	1.91%	2.37%	2.34%
2028	340,930	4,411,584	4,752,513	359,343	4,704,342	5,063,685	382,445	5,068,938	5,451,383	1.24%	1.63%	1.61%	1.51%	1.98%	1.94%	1.83%	2.36%	2.33%
2029	345,163	4,483,693	4,828,857	364,781	4,797,301	5,162,083	389,460	5,188,717	5,578,177	1.26%	1.63%	1.61%	1.53%	1.98%	1.95%	1.85%	2.36%	2.33%
2030	349,497	4,556,932	4,906,429	370,357	4,892,135	5,262,493	396,677	5,311,336	5,700,103									

	Therm 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	
2009	159,776,817	145,480,128	305,256,945	159,021,353	144,928,079	303,949,433	159,776,817	145,480,128	305,256,945	-1.57%	-4.44%	-2.94%	-0.55%	-3.80%	-2.10%	-0.44%	-3.71%	-2.00%	
2010	157,275,238	139,013,639	296,288,877	158,147,364	139,419,558	297,566,922	159,078,166	140,084,575	299,162,771	-0.29%	0.12%	-0.10%	0.06%	0.30%	0.18%	0.45%	0.63%	0.53%	
2011	156,823,592	139,175,111	295,998,703	158,247,710	139,842,931	298,090,641	159,793,654	140,966,834	300,761,967	0.77%	0.23%	0.52%	1.12%	0.41%	0.79%	1.50%	0.70%	1.12%	
2012	158,037,966	139,494,429	297,532,395	160,027,016	140,409,694	300,436,710	162,187,696	141,556,836	304,144,532	1.23%	0.92%	1.09%	1.58%	1.09%	1.35%	1.95%	1.37%	1.68%	
2013	159,988,428	140,775,401	300,763,829	162,559,181	141,940,685	304,499,866	165,342,736	143,908,594	309,251,330	1.46%	1.66%	1.63%	1.47%	1.61%	1.54%	1.68%	2.16%	1.82%	2.00%
2014	162,322,547	142,696,413	305,018,960	165,494,108	144,120,688	309,614,796	168,913,347	146,623,311	315,436,659	1.81%	1.72%	1.77%	2.15%	1.89%	2.03%	2.50%	2.18%	2.35%	
2015	165,257,329	145,562,312	310,819,641	168,058,153	146,849,188	314,907,341</													

SYSTEM TOTAL



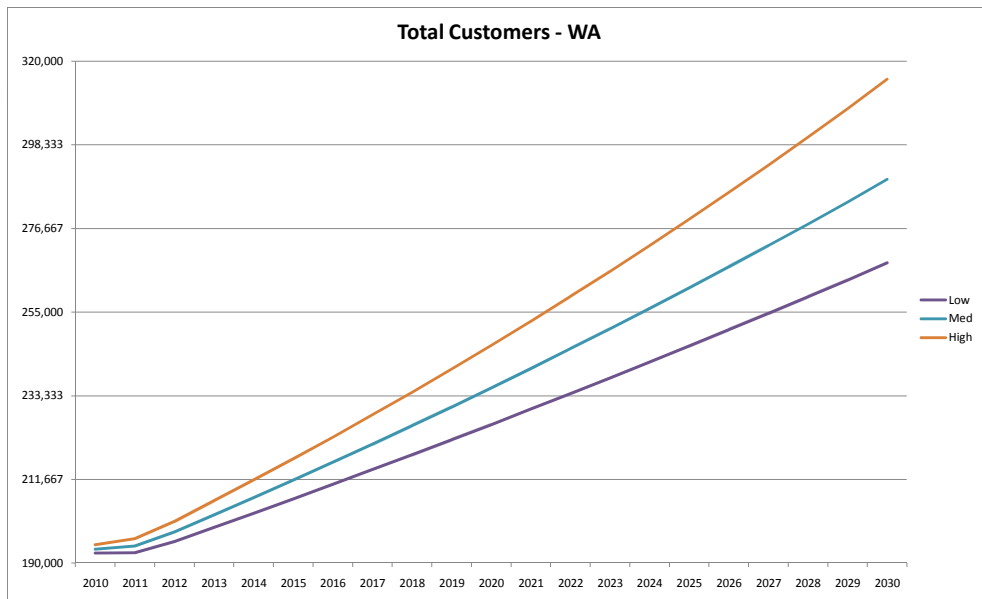
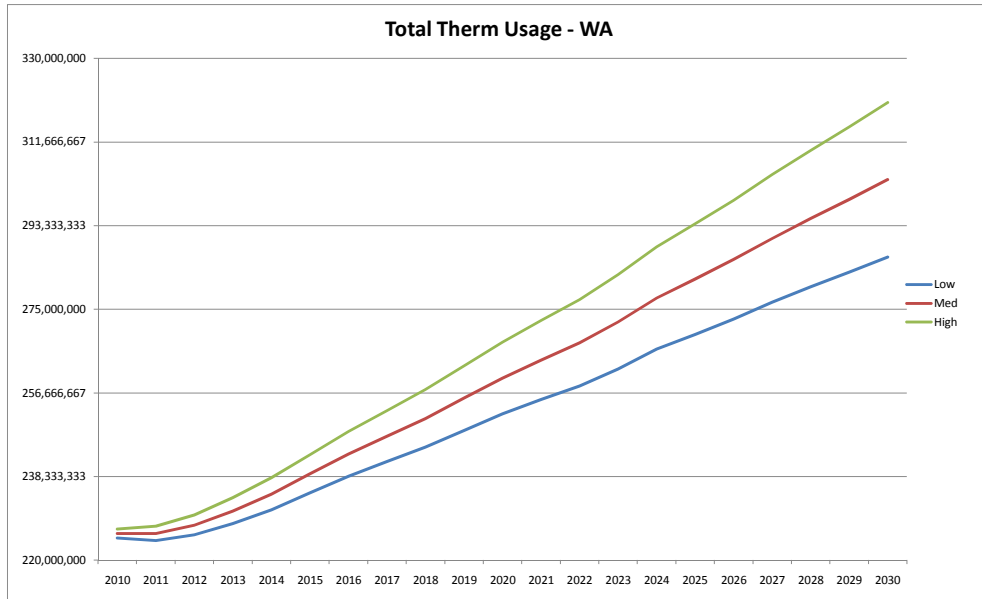
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

WA	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						
2009	154,752,567	77,866,521	232,619,088	153,946,896	77,498,767	231,445,663	154,752,567	77,866,521	232,619,088	-3.35%	-3.28%	-3.33%	-2.44%	-2.39%	-2.43%	-2.53%	-2.41%	-2.49%									
2010	149,560,921	75,312,926	224,873,848	150,186,648	75,644,719	225,831,368	150,839,142	75,990,702	226,829,848	-0.28%	-0.24%	-0.26%	-0.02%	0.04%	0.00%	0.25%	0.32%	0.27%									
2011	149,147,219	75,135,398	224,282,617	150,159,564	75,673,415	225,832,979	151,214,588	76,236,442	227,451,031	0.53%	0.62%	0.56%	0.80%	0.89%	0.83%	1.06%	1.17%	1.10%									
2012	151,530,804	76,461,329	227,992,133	153,350,457	77,430,901	230,781,357	155,231,078	78,441,948	233,673,026	1.06%	1.14%	1.09%	1.32%	1.42%	1.35%	1.58%	1.70%	1.62%									
2013	153,518,129	77,520,624	231,038,753	155,763,494	78,717,900	234,481,394	158,072,245	79,961,875	238,034,121	1.31%	1.39%	1.34%	1.57%	1.66%	1.60%	1.83%	1.94%	1.87%									
2014	155,951,350	78,794,467	234,745,817	158,642,390	80,229,992	238,872,382	161,395,461	81,715,799	243,111,260	1.58%	1.64%	1.60%	1.85%	1.92%	1.87%	2.10%	2.19%	2.13%									
2015	158,375,018	80,600,235	238,975,253	161,526,492	81,741,873	243,268,365	164,735,702	83,476,154	248,211,856	1.55%	1.61%	1.57%	1.82%	1.88%	1.84%	2.07%	2.15%	2.10%									
2016	160,454,172	81,162,675	241,616,847	164,071,386	83,093,654	247,165,040	167,740,034	85,078,932	252,819,967	1.31%	1.38%	1.33%	1.58%	1.65%	1.60%	1.82%	1.92%	1.86%									
2017	162,516,701	82,259,142	244,775,843	166,611,245	84,445,723	251,056,967	170,747,872	86,687,058	257,439,930	1.29%	1.35%	1.31%	1.55%	1.63%	1.57%	1.79%	1.89%	1.83%									
2018	164,921,310	83,521,379	248,442,689	169,516,462	85,975,821	255,492,282	174,142,347	88,484,853	262,627,200	1.48%	1.53%	1.50%	1.74%	1.81%	1.77%	1.99%	2.07%	2.02%									
2019	167,291,911	84,765,012	252,056,924	172,402,577	87,495,253	259,897,830	177,531,812	90,279,799	267,811,611	1.44%	1.49%	1.45%	1.70%	1.77%	1.72%	1.95%	2.03%	1.97%									
2020	169,347,495	85,859,452	255,206,946	174,977,801	88,868,103	263,845,904	180,614,157	91,930,991	272,545,148	1.23%	1.29%	1.25%	1.49%	1.57%	1.52%	1.74%	1.83%	1.77%									
2021	171,294,255	86,902,964	258,197,220	177,452,583	90,194,704	267,647,287	183,603,596	93,540,402	277,145,598	1.15%	1.22%	1.17%	1.41%	1.49%	1.44%	1.65%	1.75%	1.69%									
2022	173,731,622	88,185,049	261,916,671	180,450,932	91,777,204	272,228,136	187,148,506	95,423,620	282,572,126	1.42%	1.48%	1.44%	1.69%	1.75%	1.71%	1.93%	2.01%	1.95%									
2023	176,586,001	89,659,703	266,246,605	183,906,718	93,572,654	277,479,373	191,188,805	97,339,388	288,728,192	1.64%	1.67%	1.65%	1.92%	1.96%	1.93%	2.16%	2.22%	2.18%									
2024	178,708,456	90,788,800	269,497,256	186,609,407	95,013,289	281,622,696	194,456,438	99,201,662	293,748,098	1.20%	1.26%	1.22%	1.47%	1.54%	1.49%	1.71%	1.80%	1.74%									
2025	180,876,460	91,941,514	272,817,975	189,374,607	96,486,231	285,860,838	197,820,590	101,285,627	298,888,162	1.21%	1.27%	1.23%	1.48%	1.55%	1.50%	1.72%	1.81%	1.75%									
2026	183,134,553	93,224,176	276,338,729	192,440,462	98,105,175	290,545,637	201,482,116	103,043,396	304,525,513	1.35%	1.40%	1.36%	1.62%	1.68%	1.64%	1.86%	1.94%	1.89%									
2027	185,511,161	94,391,664	279,902,825	195,268,700	99,611,474	294,880,173	204,928,067	104,891,726	309,819,793	1.20%	1.25%	1.22%	1.47%	1.54%	1.49%	1.71%	1.79%	1.74%									
2028	187,619,505	95,517,972	283,137,476	198,018,968	101,082,317	299,101,285	208,307,732	106,711,753	315,019,484	1.14%	1.19%	1.16%	1.41%	1.48%	1.43%	1.65%	1.74%	1.68%									
2029	189,754,238	96,664,415	286,418,654	200,814,019	102,583,938	303,397,957	211,754,639	108,576,002	320,330,641	1.14%	1.20%	1.16%	1.41%	1.49%	1.44%	1.65%	1.75%	1.69%									

WA	Peak Day - BaseLoad												Annual Change								
	Low				Medium				High				Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2009	213,333	2,536,915	2,750,248	212,325	2,523,394	2,735,719	213,333	2,536,915	2,750,248	-3.28%	-0.46%	-0.68%	-2.39%	0.60%	0.37%	-2.41%	0.63%	0.39%			
2010	206,337	2,525,173	2,731,510	207,246	2,538,573	2,745,819	208,194	2,552,843	2,761,037	-0.24%	0.12%	0.09%	0.04%	0.46%	0.33%	0.32%	0.87%	0.83%			
2011	205,850	2,528,109	2,733,959	207,324	2,550,301	2,757,626	208,867	2,574,959	2,783,826	0.62%	1.58%	1.51%	0.89%	1.93%	1.85%	1.17%	2.34%	2.26%			
2012	207,417	2,568,033	2,775,150	209,171	2,599,555	2,808,726	211,320	2,635,296	2,846,615	1.14%	1.92%	1.86%	1.42%	2.28%	2.21%	1.70%	2.69%	2.62%			
2013	209,183	2,617,376	2,826,860	212,139	2,658,715	2,870,855	214,909	2,706,187	2,861,615	1.39%	1.89%	1.85%	1.66%	2.24%	2.20%	1.94%	2.66%	2.61%			
2014	212,385	2,666,800	2,879,185	215,665	2,718,366	2,934,032	219,074	2,778,131	2,997,205	1.64%	1.86%	1.84%	1.92%	2.21%	2.19%	2.19%	2.63%	2.60%			
2015	215,875	2,716,272	2,932,147	219,808	2,778,489	2,998,297	223,879	2,851,122	3,075,001	1.61%	1.84%	1.82%	1.88%	2.20%	2.18%	2.15%	2.62%	2.58%			
2016	219,343	2,766,277	2,985,621	223,950	2,839,561	3,063,512	228,702	2,925,633	3,154,334	1.38%	1.84%	1.81%	1.65%	2.20%	2.16%	1.92%	2.62%	2.57%			
2017	222,363	2,810,297	3,039,661	227,654	2,902,093	3,129,747	233,093	3,059,808	3,235,301	1.35%	1.83%	1.80%	1.63%	2.19%	2.15%	1.89%	2.60%	2.55%			
2018	225,368	2,868,665	3,094,232	231,358	2,965,627	3,196,985	237,499	3,080,398	3,317,897	1.33%	1.83%	1.80%	1.63%	2.19%	2.15%	1.89%	2.60%	2.55%			
2019	228,266	2,920,620	3,149,445	235,550	3,029,809	3,265,359	242,424	3,159,870	3,402,295	1.49%	1.90%	1.77%	1.77%	2.16%	2.13%	2.03%	2.57%	2.53%			
2020	232,233	2,973,069	3,205,302	239,713	3,095,153	3,334,866	247,342	3,241,158	3,488,900	1.29%	1.80%	1.76%	1.57%	2.16%	2.13%	2.03%	2.57%	2.53%			
2021	235,231	3,026,638	3,261,870	243,474	3,162,137	3,405,611	251,866	3,324,800	3,576,666	1.42%	1.80%	1.76%	1.57%	2.16%	2.13%	2.03%	2.57%	2.53%			
2022	238,090	3,080,945	3,319,035	247,109	3,230,361	3,477,466	256,275	3,410,375	3,666,650	1.48%	1.76%	1.74%	1.55%	2.16%	2.13%	2.01%	2.54%	2.51%			
2023	241,603	3,135,194	3,376,797	251,444	3,299,022	3,550,467	261,435	3,497,075	3,758,510	1.67%	1.73%	1.73%	1.96%	2.10%	2.09%	2.22%	2.51%	2.49%			
2024	245,643	3,189,480	3,435,123	256,363	3,368,185	3,624,548	267,231	3,584,950	3,852,181	1.26%	1.75%	1.72%	1.54%	2.12%	2.08%	1.80%	2.54%	2.48%			
2025	248,736	3,245,361	3,494,098	260,310	3,439,540	3,699,859	272,032	3,675,839	3,947,871	1.27%	1.74%	1.70%	1.55%	2.10%	2.06%	1.81%	2.52%	2.47%			
2026	251,895	3,301,709	3,553,603	264,346	3,511,908	3,776,254	276,947	3,768,466	4,045,413	1.40%	1.72%	1.69%	1.68%	2.08%	2.06%	1.94%	2.50%	2.46%			
2027	255,409	3,358,351	3,613,760	268,781	3,585,103	3,853,884	282,311	3,862,639	4,145,004	1.25%	1.72%	1.68%	1.54%	2.09%	2.05%	1.79%	2.50%	2.45%			
2028	258,607	3,415,964	3,674,572	272,908	3,659,874	3,932,782	287,375	3,959,340	4,246,715	1.19%	1.71%	1.67%	1.48%	2.08%	2.04%	1.74%	2.50%	2.45%			
2029	261,693	3,474,355	3,736,049	276,938	3,736,019	4,012,956	292,361	4,058,205	4,350,566	1.20%	1.71%	1.67%	1.49%	2.08%	2.04%	1.75%	2.50%	2.45%			
2030	264,834	3,533,654	3,798,488	281,052	3,813,734	4,094,786	297,468	4,159,513	4,456,981												

WA	Therm 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						
2009	119,892,025	112,727,063	232,619,088	119,283,247	112,162,416	231,445,663	119,892,025	112,727,063	232,619,088	-1.85%	-4.90%	-3.33%	-0.77%	-4.19%	-2.43%	-0.71%	-4.38%	-2.49%						
2010	117,675,313	107,198,535	224,873,848	118,364,129	107,467,238	225,831,368	119,035,190	1																

WA



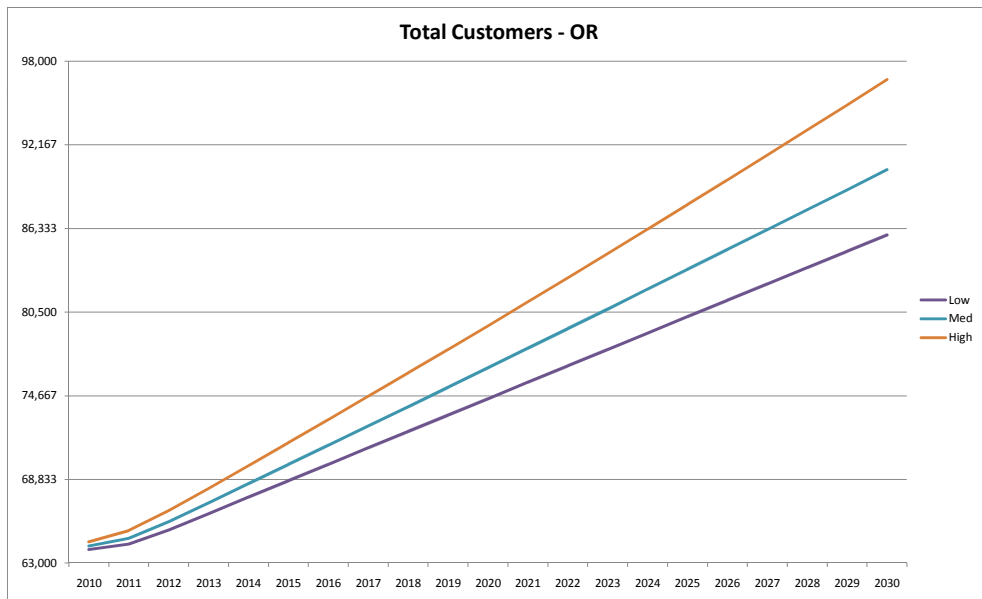
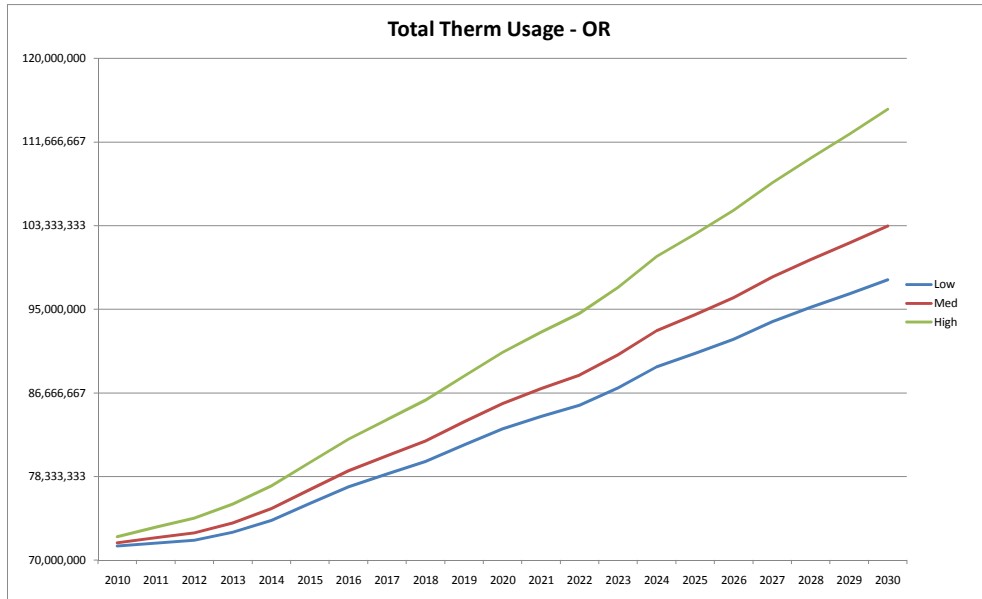
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

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	Heating	BaseLoad	Total			
2009	49,564,584	23,073,273	72,637,857	49,482,125	23,021,645	72,503,770	49,564,584	23,073,273	72,637,857	-1.59%	-1.88%	-1.68%	-0.99%	-1.21%	-1.06%	-0.33%	-0.62%	-0.42%						
2010	48,774,435	22,640,594	71,415,030	48,992,634	22,742,921	71,735,554	49,402,490	22,930,437	72,332,927	0.45%	0.36%	0.42%	0.76%	0.66%	0.73%	1.39%	1.28%	1.35%						
2011	48,994,437	22,721,649	71,716,086	49,363,753	22,893,909	72,257,662	50,087,517	23,223,418	73,310,936	0.39%	0.37%	0.38%	0.67%	0.64%	0.66%	1.22%	1.18%	1.21%						
2012	49,185,015	22,804,600	71,989,615	49,693,629	23,041,355	72,735,164	50,697,739	23,498,131	74,195,870	1.09%	1.07%	1.09%	1.36%	1.34%	1.35%	1.87%	1.84%	1.86%						
2013	49,723,312	23,048,384	72,771,695	50,369,349	23,349,159	73,718,509	51,648,017	23,930,287	75,578,304	1.67%	1.64%	1.66%	1.93%	1.89%	1.92%	2.43%	2.38%	2.41%						
2014	50,554,979	23,425,228	73,980,207	51,341,942	23,791,461	75,133,403	52,920,250	24,500,288	77,402,538	2.29%	2.24%	2.28%	2.55%	2.50%	2.53%	3.03%	2.98%	3.02%						
2015	51,713,029	23,951,045	75,664,074	52,648,657	24,386,302	77,034,959	54,507,342	25,230,376	79,737,719	2.19%	2.15%	2.18%	2.44%	2.40%	2.43%	2.92%	2.87%	2.90%						
2016	52,844,114	24,465,794	77,309,909	53,932,256	24,971,882	78,904,138	56,098,380	25,955,366	82,053,746	1.65%	1.62%	1.64%	1.90%	1.87%	1.89%	2.37%	2.32%	2.35%						
2017	53,716,054	24,861,826	78,577,880	54,954,561	25,437,664	80,392,225	57,428,711	26,560,715	83,989,426	1.61%	1.58%	1.60%	1.86%	1.82%	1.85%	2.33%	2.29%	2.32%						
2018	54,582,382	25,254,896	79,837,278	55,974,255	25,901,854	81,876,109	58,767,824	27,169,560	85,937,384	2.09%	2.04%	2.07%	2.33%	2.29%	2.31%	2.81%	2.76%	2.79%						
2019	55,720,605	25,771,775	81,492,380	57,277,075	26,494,442	83,771,517	60,418,568	27,919,500	88,338,068	1.96%	1.93%	1.95%	2.20%	2.17%	2.19%	2.68%	2.64%	2.67%						
2020	56,814,067	26,268,076	83,082,143	58,538,860	27,069,125	85,607,986	62,040,055	28,656,876	90,696,931	1.50%	1.47%	1.49%	1.74%	1.71%	1.73%	2.22%	2.18%	2.21%						
2021	57,915,097	26,754,460	84,669,557	59,683,341	27,562,200	87,245,541	63,667,541	29,282,857	92,700,830	1.33%	1.31%	1.33%	1.57%	1.54%	1.56%	2.06%	2.02%	2.04%						
2022	58,435,427	27,002,910	85,438,337	60,492,222	27,957,445	88,449,666	64,721,815	29,874,426	94,596,241	2.02%	1.98%	2.01%	2.26%	2.22%	2.24%	2.75%	2.70%	2.74%						
2023	59,615,097	28,204,256	87,819,353	61,856,740	28,576,489	90,433,229	66,502,269	30,681,456	97,183,721	2.46%	2.42%	2.45%	2.70%	2.67%	2.69%	3.20%	3.15%	3.18%						
2024	61,080,470	29,541,256	90,621,726	63,438,303	29,338,961	92,777,264	68,628,372	31,649,137	100,277,510	1.51%	1.48%	1.50%	1.74%	1.72%	1.74%	2.24%	2.20%	2.23%						
2025	62,001,706	28,621,285	90,622,991	64,636,303	29,842,297	94,478,601	70,167,994	32,346,892	102,514,886	1.56%	1.53%	1.55%	1.80%	1.76%	1.79%	2.20%	2.16%	2.22%						
2026	62,968,547	29,058,568	92,027,115	65,796,647	30,368,587	96,165,234	71,780,452	33,076,885	104,857,338	1.89%	1.86%	1.88%	2.13%	2.09%	2.12%	2.64%	2.59%	2.63%						
2027	64,159,911	29,597,865	93,757,776	67,197,831	31,004,340	98,202,171	73,675,304	33,934,909	107,610,213	1.55%	1.52%	1.54%	1.79%	1.76%	1.78%	2.30%	2.26%	2.28%						
2028	65,154,060	30,047,671	95,201,730	68,397,892	31,548,821	99,946,713	75,367,073	34,700,858	110,067,931	1.42%	1.39%	1.42%	1.66%	1.63%	1.65%	2.17%	2.13%	2.16%						
2029	66,082,449	30,466,669	96,549,119	69,533,330	32,062,788	101,596,118	77,005,723	35,441,176	112,446,898	1.46%	1.43%	1.45%	1.69%	1.66%	1.69%	2.21%	2.17%	2.20%						
2030	67,045,930	30,901,922	97,947,852	70,711,519	32,596,515	103,308,034	78,709,515	36,211,185	114,920,700															

OR	Peak Day - BaseLoad															Annual Change								
	Low					Medium					High					Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2009	63,214	756,109	819,324	63,073	752,459	815,532	63,214	756,109	819,324	-1.88%	0.03%	-0.12%	-1.21%	0.89%	0.73%	-0.62%	0.84%	0.73%						
2010	62,029	756,318	818,347	62,309	759,149	821,459	62,823	762,463	825,286	0.36%	0.55%	0.54%	0.66%	0.81%	0.80%	1.28%	1.16%	1.17%						
2011	62,251	760,491	822,742	62,723	765,323	828,046	63,626	771,296	834,922	0.37%	1.69%	1.59%	0.64%	1.95%	1.85%	1.18%	2.30%	2.22%						
2012	62,478	773,313	835,792	63,127	780,251	843,378	64,378	789,052	853,430	1.07%	1.89%	1.82%	1.34%	2.15%	2.09%	1.84%	2.50%	2.45%						
2013	63,146	787,891	851,037	63,970	797,003	860,973	65,562	808,744	874,306	1.64%	1.81%	1.80%	1.89%	2.07%	2.06%	2.38%	2.41%	2.41%						
2014	64,179	802,140	866,319	65,182	813,495	878,677	67,124	828,273	895,398	2.24%	1.72%	1.76%	2.50%	1.98%	2.02%	2.98%	2.32%	2.37%						
2015	65,169	815,945	881,565	66,812	829,596	896,407	69,124	847,482	916,606	2.15%	1.70%	1.73%	2.40%	1.96%	1.99%	2.87%	2.29%	2.34%						
2016	66,130	829,803	896,832	68,416	845,820	914,236	71,111	866,909	938,019	1.62%	1.71%	1.70%	1.87%	1.96%	1.95%	2.33%	2.29%	2.30%						
2017	67,050	843,954	912,069	69,692	862,399	932,092	72,769	888,778	959,547	1.58%	1.67%	1.66%	1.82%	1.92%	1.92%	2.29%	2.25%	2.25%						
2018	68,191	858,058	927,250	70,964	878,991	949,955	74,437	906,733	981,170	2.04%	1.60%	1.64%	2.29%	1.85%	1.88%	2.76%	2.17%	2.22%						
2019	70,606	871,809	942,415	72,588	895,274	967,861	76,492	926,434	1,002,926	1.93%	1.58%	1.61%	2.17%	1.89%	1.85%	2.64%	2.18%	2.18%						
2020	71,967	885,589	957,552	74,162	911,640	985,802	78,512	946,594	1,024,806	1.60%	1.59%	1.71%	1.84%	1.83%	2.18%	2.16%	2.16%							
2021	73,026	899,721	972,747	75,431	928,443	1,003,873	80,227	966,697	1,046,924	1.31%	1.41%	1.58%	1.54%	1.82%	1.80%	2.02%	2.13%	2.12%						
2022	73,981	913,900	987,880	76,596	945,346	1,021,941	81,848	987,274	1,069,121	1.98%	1.49%	1.53%	2.22%	1.73%	1.77%	2.70%	2.03%	2.08%						
2023	75,444	927,504	1,002,948	78,293	961,704	1,039,997	84,059	1,007,326	1,091,384	2.42%	1.43%	1.50%	2.67%	1.67%	1.75%	3.15%	1.97%	2.06%						
2024	77,272	940,768	1,018,040	80,381	977,774	1,058,155	86,710	1,027,143	1,113,853	1.48%	1.48%	1.48%	1.72%	1.72%	1.72%	2.20%	2.01%	2.03%						
2025	78,414	954,678	1,033,093	81,760	994,572	1,076,332	88,622	1,047,803	1,136,425	1.53%	1.44%	1.45%	1.76%	1.68%	1.68%	2.26%	1.96%	1.99%						
2026	79,613	968,424	1,048,036	83,202	1,011,246	1,094,447	90,622	1,068,380	1,159,001	1.86%	1.39%	1.43%	2.09%	1.63%	1.66%	2.59%	1.91%	1.96%						
2027	81,090	981,909	1,062,999	84,943	1,027,707	1,112,650	92,972	1,088,791	1,181,763	1.52%	1.40%	1.41%	1.76%	1.63%	1.64%	2.26%	1.91%	1.94%						
2028	82,322	995,619	1,079,942	86,435	1,044,468	1,130,904	95,071	1,109,598	1,204,668	1.39%	1.38%	1.38%	1.63%	1.61%	1.61%	2.13%	1.88%	1.90%						
2029	83,470	1,009,338	1,092,808	87,843	1,061,283	1,149,126	97,099	1,130,513	1,227,612	1.43%	1.38%	1.38%	1.66%	1.61%	1.62%	2.17%	1.89%	1.91%						
2030	84,663	1,023,278	1,107,941	89,306	1,078,401	1,167,707	99,209	1,151,823	1,251,032															

OR	Therm 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			
2009	39,884,791	32,753,065	72,637,857	39,738,107	32,765,663	72,503,770	39																	

OR



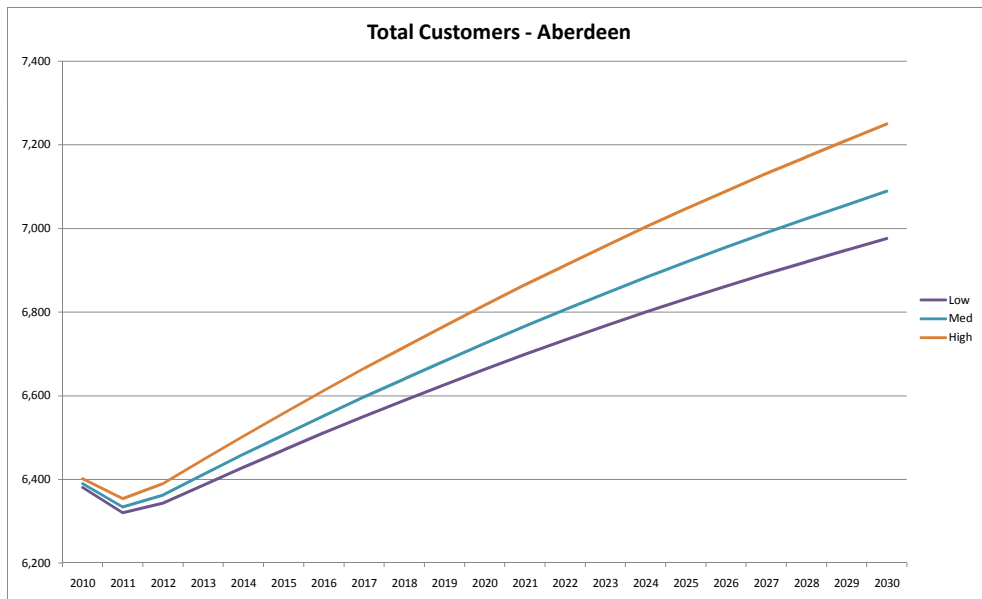
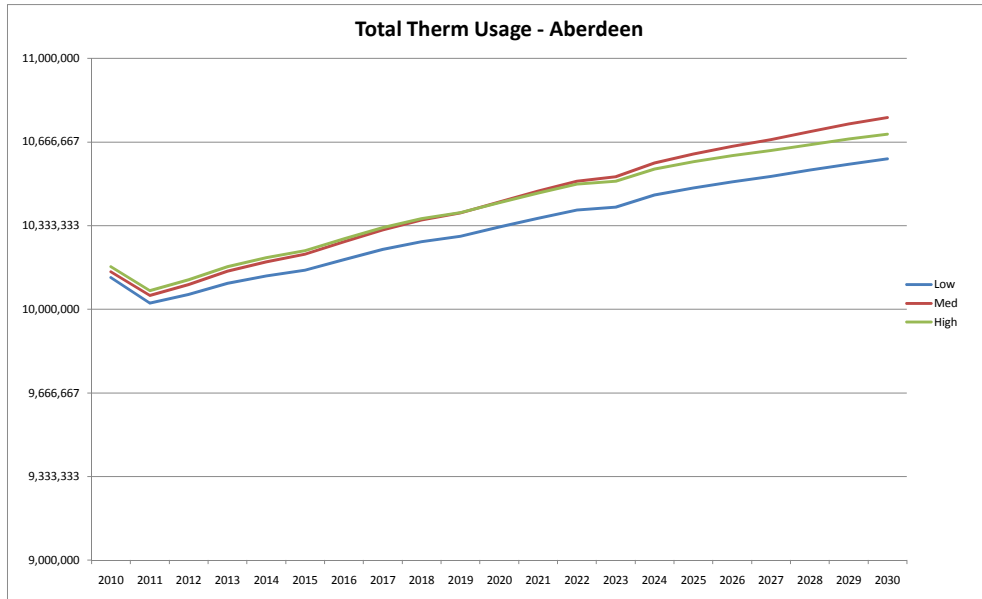
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Aberdeen																			
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		
2009	7,252,819	3,264,926	10,517,745	7,204,160	3,243,022	10,447,182	7,252,819	3,264,926	10,517,745										
2010	6,982,763	3,143,358	10,126,121	6,998,618	3,150,495	10,149,113	7,012,941	3,156,943	10,169,884	-3.72%	-3.72%	-3.72%	-2.85%	-2.85%	-2.85%	-3.31%	-3.31%	-3.31%	
2011	6,912,785	3,111,857	10,024,641	6,934,016	3,121,414	10,055,430	6,947,479	3,127,475	10,074,954	-1.00%	-1.00%	-1.00%	-0.92%	-0.92%	-0.92%	-0.93%	-0.93%	-0.93%	
2012	6,936,740	3,122,640	10,059,380	6,963,701	3,134,777	10,098,478	6,976,749	3,140,650	10,117,399	0.35%	0.35%	0.35%	0.43%	0.43%	0.43%	0.42%	0.42%	0.42%	
2013	6,967,541	3,136,505	10,104,046	7,000,270	3,151,239	10,151,509	7,012,759	3,156,861	10,169,619	0.44%	0.44%	0.44%	0.53%	0.53%	0.53%	0.52%	0.52%	0.52%	
2014	6,987,714	3,145,586	10,133,300	7,025,960	3,162,803	10,188,763	7,037,332	3,167,923	10,205,255	0.29%	0.29%	0.29%	0.37%	0.37%	0.37%	0.35%	0.35%	0.35%	
2015	7,003,712	3,152,788	10,156,501	7,047,291	3,172,406	10,219,696	7,057,041	3,176,795	10,233,836	0.23%	0.23%	0.23%	0.30%	0.30%	0.30%	0.28%	0.28%	0.28%	
2016	7,032,431	3,165,716	10,198,147	7,081,424	3,187,771	10,269,194	7,089,453	3,191,385	10,280,839	0.41%	0.41%	0.41%	0.48%	0.48%	0.48%	0.46%	0.46%	0.46%	
2017	7,060,176	3,187,206	10,238,382	7,114,447	3,202,637	10,317,084	7,120,543	3,205,881	10,325,923	0.39%	0.39%	0.39%	0.47%	0.47%	0.47%	0.44%	0.44%	0.44%	
2018	7,081,764	3,187,924	10,269,688	7,141,103	3,214,636	10,355,739	7,144,775	3,216,289	10,361,064	0.31%	0.31%	0.31%	0.37%	0.37%	0.37%	0.34%	0.34%	0.34%	
2019	7,096,883	3,194,730	10,291,613	7,161,172	3,223,670	10,384,842	7,161,971	3,224,030	10,386,001	0.21%	0.21%	0.21%	0.28%	0.28%	0.28%	0.24%	0.24%	0.24%	
2020	7,121,712	3,205,907	10,327,619	7,191,056	3,237,123	10,428,179	7,188,989	3,236,192	10,425,181	0.35%	0.35%	0.35%	0.42%	0.42%	0.42%	0.38%	0.38%	0.38%	
2021	7,146,087	3,216,880	10,362,967	7,220,451	3,250,355	10,470,806	7,215,422	3,248,091	10,463,513	0.34%	0.34%	0.34%	0.41%	0.41%	0.41%	0.37%	0.37%	0.37%	
2022	7,168,573	3,227,002	10,395,575	7,247,795	3,262,664	10,510,459	7,239,482	3,258,932	10,498,405	0.31%	0.31%	0.31%	0.38%	0.38%	0.38%	0.33%	0.33%	0.33%	
2023	7,176,641	3,230,634	10,407,275	7,260,242	3,268,268	10,528,510	7,247,733	3,262,636	10,510,369	0.11%	0.11%	0.11%	0.17%	0.17%	0.17%	0.13%	0.13%	0.13%	
2024	7,209,575	3,245,459	10,455,034	7,297,902	3,285,221	10,583,123	7,281,364	3,277,776	10,559,140	0.46%	0.46%	0.46%	0.52%	0.52%	0.52%	0.46%	0.46%	0.46%	
2025	7,229,625	3,254,485	10,484,110	7,322,506	3,296,296	10,618,802	7,301,726	3,286,942	10,588,668	0.28%	0.28%	0.28%	0.34%	0.34%	0.34%	0.28%	0.28%	0.28%	
2026	7,246,297	3,261,990	10,508,287	7,343,670	3,305,824	10,649,494	7,318,285	3,294,396	10,612,681	0.23%	0.23%	0.23%	0.29%	0.29%	0.29%	0.23%	0.23%	0.23%	
2027	7,260,873	3,268,552	10,529,425	7,362,432	3,314,269	10,676,701	7,331,947	3,300,546	10,632,493	0.20%	0.20%	0.20%	0.26%	0.26%	0.26%	0.19%	0.19%	0.19%	
2028	7,278,239	3,276,369	10,554,608	7,384,061	3,324,006	10,708,066	7,348,452	3,307,976	10,656,428	0.24%	0.24%	0.24%	0.29%	0.29%	0.29%	0.23%	0.23%	0.23%	
2029	7,294,706	3,283,782	10,578,488	7,404,800	3,333,342	10,738,142	7,363,904	3,314,932	10,678,835	0.23%	0.23%	0.23%	0.28%	0.28%	0.28%	0.21%	0.21%	0.21%	
2030	7,308,973	3,290,204	10,599,177	7,423,249	3,341,647	10,764,895	7,376,783	3,320,730	10,697,513	0.20%	0.20%	0.20%	0.25%	0.25%	0.25%	0.17%	0.17%	0.17%	

Peak Day - BaseLoad								Annual Change										
Low		Medium		High		Low		Medium		High								
Daily BaseLoad	Peak	Daily BaseLoad	Peak	Daily BaseLoad	Peak	Base	Peak	Base	Peak	Base	Peak							
2009	8,945	74,702	83,647	8,885	73,538	82,423	8,945	74,702	83,647									
2010	8,612	73,333	81,945	8,631	73,430	82,062	8,649	73,561	82,210	-3.72%	-1.83%	-2.03%	-2.85%	-0.15%	-0.44%	-3.31%	-1.53%	-1.72%
2011	8,526	72,642	81,167	8,552	72,798	81,349	8,568	73,032	81,600	-1.00%	-0.94%	-0.95%	-0.92%	-0.86%	-0.87%	-0.93%	-0.93%	-0.74%
2012	8,555	72,904	81,459	8,588	73,121	81,710	8,605	73,461	82,065	0.35%	0.36%	0.36%	0.43%	0.44%	0.44%	0.42%	0.59%	0.57%
2013	8,593	73,425	82,018	8,634	73,704	82,338	8,649	74,150	82,799	0.44%	0.71%	0.69%	0.53%	0.80%	0.77%	0.52%	0.94%	0.89%
2014	8,618	73,946	82,564	8,665	74,288	82,955	8,679	74,839	83,518	0.29%	0.71%	0.67%	0.37%	0.79%	0.75%	0.35%	0.93%	0.87%
2015	8,638	74,462	83,100	8,692	74,866	83,557	8,704	75,523	84,227	0.23%	0.70%	0.65%	0.30%	0.78%	0.73%	0.28%	0.91%	0.85%
2016	8,673	74,949	83,622	8,734	75,415	84,149	8,744	76,177	84,921	0.41%	0.65%	0.63%	0.48%	0.73%	0.71%	0.46%	0.87%	0.82%
2017	8,707	75,421	84,129	8,774	75,949	84,724	8,782	76,815	85,597	0.39%	0.63%	0.61%	0.47%	0.71%	0.68%	0.46%	0.84%	0.80%
2018	8,734	75,882	84,616	8,807	76,471	85,279	8,812	77,439	86,250	0.31%	0.61%	0.58%	0.37%	0.69%	0.65%	0.34%	0.81%	0.76%
2019	8,753	76,345	85,098	8,832	76,986	85,828	8,833	78,065	86,898	0.21%	0.61%	0.57%	0.28%	0.69%	0.64%	0.24%	0.81%	0.75%
2020	8,785	76,786	85,570	8,869	77,500	86,369	8,866	78,671	87,537	0.35%	0.58%	0.55%	0.42%	0.65%	0.62%	0.38%	0.78%	0.73%
2021	8,813	77,216	86,030	8,905	77,991	86,896	8,899	79,262	88,161	0.34%	0.56%	0.54%	0.41%	0.63%	0.61%	0.37%	0.75%	0.71%
2022	8,841	77,653	86,474	8,939	78,468	87,407	8,929	79,838	88,767	0.31%	0.54%	0.52%	0.38%	0.61%	0.59%	0.33%	0.73%	0.69%
2023	8,851	78,083	86,905	8,954	78,950	87,904	8,939	80,418	89,356	0.11%	0.54%	0.50%	0.17%	0.61%	0.57%	0.11%	0.73%	0.66%
2024	8,882	78,437	87,329	9,001	79,395	88,396	8,980	80,961	89,941	0.46%	0.49%	0.49%	0.52%	0.56%	0.56%	0.46%	0.68%	0.65%
2025	8,916	78,818	87,734	9,031	79,836	88,867	9,005	81,498	90,503	0.28%	0.49%	0.46%	0.34%	0.56%	0.53%	0.28%	0.66%	0.62%
2026	8,937	79,190	88,127	9,057	80,268	89,325	9,026	82,024	91,050	0.23%	0.47%	0.45%	0.29%	0.54%	0.52%	0.23%	0.65%	0.60%
2027	8,955	79,552	88,507	9,080	80,691	89,771	9,043	82,540	91,582	0.20%	0.46%	0.43%	0.26%	0.53%	0.50%	0.19%	0.63%	0.59%
2028	8,976	79,899	88,875	9,107	81,097	90,204	9,063	83,038	92,101	0.24%	0.44%	0.42%	0.29%	0.50%	0.48%	0.23%	0.60%	0.57%
2029	8,997	80,237	89,234	9,132	81,495	90,627	9,082	83,526	92,608	0.23%	0.42%	0.40%	0.28%	0.49%	0.47%	0.21%	0.59%	0.55%
2030	9,014	80,576	89,591	9,155	81,893	91,048	9,098	84,015	93,113	0.20%	0.42%	0.40%	0.25%	0.49%	0.46%	0.17%	0.59%	0.54%

Therm 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	
2009	3,977,893	6,539,851	10,517,745	3,907,331	6,539,851	10,447,182	3,977,893	6,539,851	10,517,745									
2010	3,841,095	6,285,026	10,126,121	3,844,688	6,304,424	10,149,113	3,849,719	6,320,166	10,169,884	-3.44%	-3.90%	-3.72%	-1.60%	-3.60%	-2.85%	-3.22%	-3.36%	-3.31%
2011	3,785,217	6,239,425	10,024,641	3,790,462	6,264,969	10,055,430	3,797,405	6,277,549	10,074,954	-1.45%	-0.73%	-1.00%	-1.41%	-0.63%	-0.92%	-1.36%	-0.67%	-0.93%
2012	3,766,270	6,293,110	10,059,380	3,773,158	6,325,320	10,098,478	3,781,929	6,335,470	10,117,399	-0.50%	0.86%	0.35%	-0.46%	0.96%	0.43%	-0.41%	0.92%	0.42%
2013	3,764,945	6,339,101	10,104,046	3,773,453	6,378,056	10,151,509	3,783,925	6,389,694	10,169,619	-0.04%	0.73%	0.44%	0.01%	0.83%	0.53%	0.05%	0.79%	0.52%
2014	3,773,443	6,359,858	10,133,300	3,783,522	6,405,240	10,188,763	3,795,532	6,405,240	10,205,255	0.23%	0.29%	0.27%	0.43%	0.37%	0.31%	0.38%	0.35%	0.35%
2015	3,797,326	6,359,174	10,156,501	3,808,977	6,410,719	10,219,696	3,822,417	6,411,419	10,233,836	0.63%	-0.01%	0.23%	0.67%	0.09%	0.30%	0.71%	0.03%	0.28%
2016	3,826,755	6,371,392	10,198,147	3,839,959	6,429,235	10,269,194	3,854,680	6,426,159	10,280,839	0.77%	0.19%	0.41%	0.81%	0.29%	0.48%	0.84%	0.23%	0.46%
2017	3,840,982	6,397,400	10,238,382	3,855,619	6,461,465	10,317,084	3,871,381	6,454,542	10,325,923	0.37%	0.41%	0.39%	0.41%	0.50%	0.47%	0.43%	0.44%	0.44%
2018	3,850,693	6,418,996	10,269,688	3,866,670	6,489,069	10,355,739	3,883,237	6,477,828	10,361,064	0.25%	0.31%	0.29%	0.29%	0.43%	0.37%	0.31%	0.36%	0.34%
2019	3,870,201	6,421,412	10,291,613	3,887,544	6,497,298	10,384,842	3,904,846	6,481,155	10,386,001	0.51%	0.04%	0.21%	0.54%	0.13%	0.28%	0.56%	0.05%	0.24%
2020	3,892,476	6,435,144	10,327,619	3,911,170	6,517,090	10,428,179	3,929,094											

Aberdeen

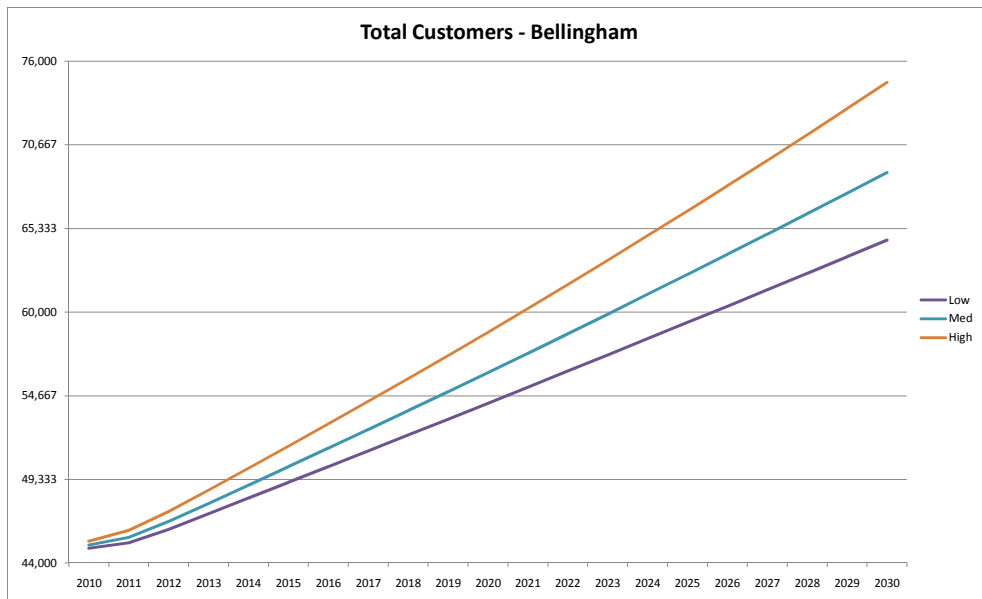
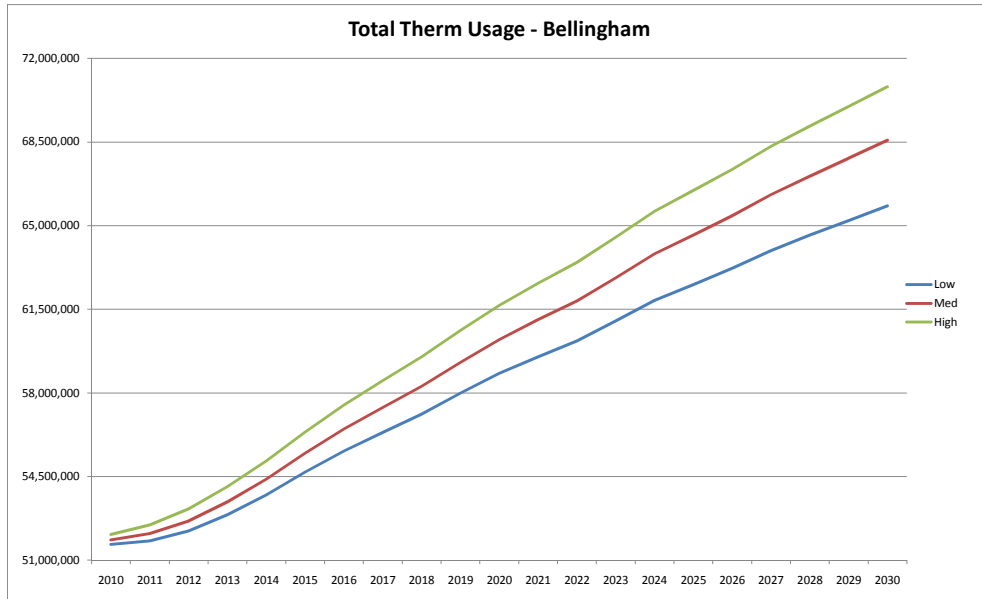


Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

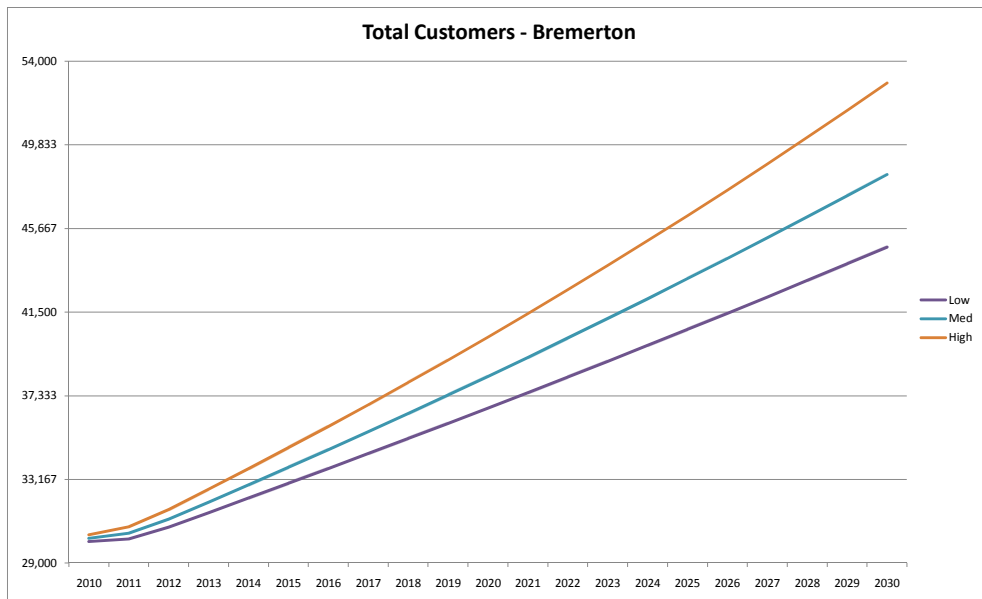
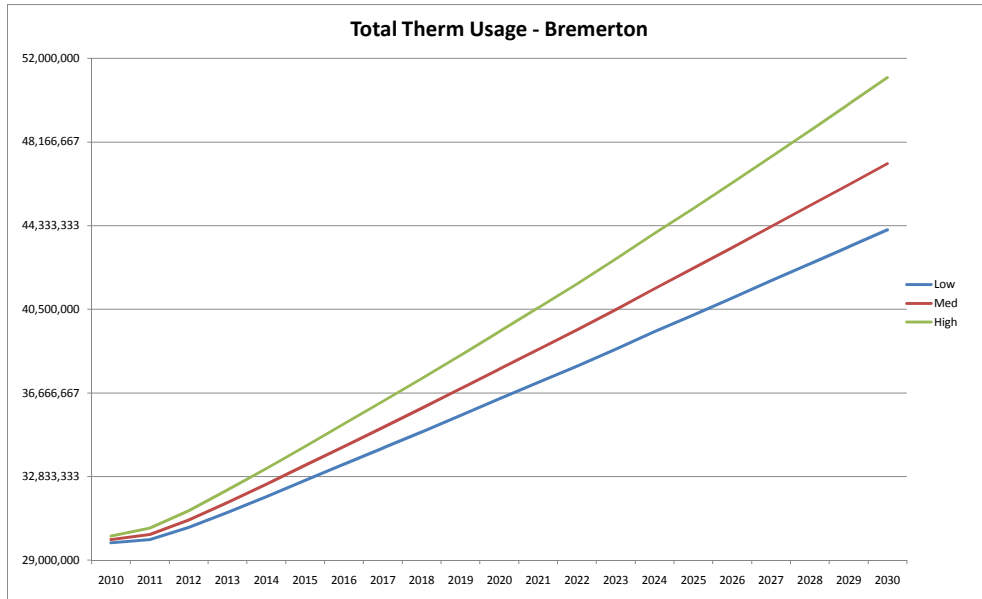
Bellingham																									
Annual Requirements (Therms)															Annual Change										
Low					Medium					High					Low			Medium			High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total		
2009	34,257,638	19,214,055	53,471,693	34,109,233	19,130,819	53,240,051	34,257,638	19,214,055	53,471,693																
2010	33,100,459	18,565,029	51,665,488	33,217,266	18,630,543	51,847,809	33,362,695	18,712,109	52,074,805	-3.38%	-3.38%	-3.38%	-2.62%	-2.62%	-2.62%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%	-2.61%
2011	33,193,748	18,617,352	51,811,099	33,386,468	18,725,442	52,111,910	33,623,874	18,858,596	52,482,470	0.28%	0.28%	0.28%	0.51%	0.51%	0.51%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%
2012	33,456,840	18,764,912	52,221,752	33,725,960	18,915,853	52,641,814	34,051,577	19,098,482	53,150,059	0.79%	0.79%	0.79%	1.02%	1.02%	1.02%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%
2013	33,893,719	19,009,944	52,903,662	34,240,230	19,204,291	53,444,521	34,650,881	19,434,613	54,085,494	1.31%	1.31%	1.31%	1.52%	1.52%	1.52%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%
2014	34,421,848	19,306,155	53,728,003	34,846,775	19,544,484	54,391,259	35,339,521	19,820,850	55,160,371	1.56%	1.56%	1.56%	1.77%	1.77%	1.77%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%
2015	35,035,050	19,650,081	54,685,131	35,540,095	19,933,346	55,473,441	36,113,314	20,254,847	56,368,161	1.78%	1.78%	1.78%	1.99%	1.99%	1.99%	2.19%	2.19%	2.19%	2.19%	2.19%	2.19%	2.19%	2.19%	2.19%	2.19%
2016	35,605,950	19,970,281	55,576,231	36,191,444	20,298,667	56,490,111	36,841,169	20,663,078	57,504,248	1.63%	1.63%	1.63%	1.83%	1.83%	1.83%	2.02%	2.02%	2.02%	2.02%	2.02%	2.02%	2.02%	2.02%	2.02%	2.02%
2017	36,100,097	20,247,433	56,347,530	36,765,581	20,620,683	57,386,263	37,486,781	21,025,182	58,511,962	1.39%	1.39%	1.39%	1.59%	1.59%	1.59%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%
2018	36,591,627	20,523,117	57,114,744	37,337,362	20,941,377	58,278,739	38,126,281	21,383,858	59,510,139	1.36%	1.36%	1.36%	1.56%	1.56%	1.56%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%
2019	37,153,295	20,838,140	57,991,434	37,981,345	21,302,568	59,283,913	38,837,727	21,782,886	60,620,613	1.53%	1.53%	1.53%	1.72%	1.72%	1.72%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%
2020	37,675,719	21,131,151	58,806,871	38,586,218	21,641,822	60,228,040	39,506,165	22,157,792	61,663,957	1.41%	1.41%	1.41%	1.59%	1.59%	1.59%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%
2021	38,127,295	21,384,426	59,511,721	39,119,214	21,940,763	61,059,977	40,097,552	22,489,483	62,587,035	1.20%	1.20%	1.20%	1.38%	1.38%	1.38%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
2022	38,550,634	21,621,864	60,172,498	39,623,656	22,223,689	61,847,346	40,656,275	22,802,854	63,459,129	1.11%	1.11%	1.11%	1.29%	1.29%	1.29%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
2023	39,088,076	21,923,300	61,011,376	40,246,237	22,572,876	62,819,112	41,337,467	23,154,913	64,529,729	1.39%	1.39%	1.39%	1.58%	1.58%	1.58%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%
2024	39,638,471	22,231,998	61,870,469	40,883,606	22,930,356	63,813,962	42,031,529	23,774,191	65,605,720	1.41%	1.41%	1.41%	1.58%	1.58%	1.58%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%	1.68%
2025	40,065,551	22,471,535	62,537,086	41,394,005	23,216,624	64,610,629	42,590,490	23,887,695	66,478,185	1.08%	1.08%	1.08%	1.25%	1.25%	1.25%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%
2026	40,498,310	22,714,256	63,212,566	41,910,833	23,506,496	65,417,329	43,154,865	24,204,236	67,359,101	1.08%	1.08%	1.08%	1.25%	1.25%	1.25%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%
2027	40,975,691	22,982,004	63,957,695	42,475,160	23,823,010	66,298,170	43,769,572	24,549,006	68,318,578	1.18%	1.18%	1.18%	1.35%	1.35%	1.35%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
2028	41,390,408	23,214,606	64,605,015	42,975,213	24,103,474	67,078,688	44,314,751	24,854,780	69,169,531	1.01%	1.01%	1.01%	1.18%	1.18%	1.18%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
2029	41,780,624	23,433,466	65,214,091	43,450,501	24,370,049	67,820,549	44,833,035	25,145,470	69,785,505	0.94%	0.94%	0.94%	1.11%	1.11%	1.11%	1.17%	1.17%	1.17%	1.17%	1.17%	1.17%	1.17%	1.17%	1.17%	1.17%
2030	42,178,839	23,656,813	65,835,652	43,935,370	24,641,997	68,577,367	45,363,093	25,442,763	70,805,856	0.95%	0.95%	0.95%	1.12%	1.12%	1.12%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%

Peak Day - BaseLoad															Annual Change										
Low					Medium					High					Low			Medium			High				
Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total		
2009	52,641	635,101	687,742	52,413	635,329	687,742	52,641	635,101	687,742																
2010	50,863	637,902	688,765	51,043	640,893	691,935	51,266	644,446	695,712	-3.38%	0.44%	0.15%	-2.62%	0.88%	0.61%	-2.61%	1.47%	1.16%	1.16%	1.16%	1.16%	1.16%	1.16%	1.16%	
2011	51,006	643,061	694,068	51,303	648,169	699,472	51,667	654,565	706,233	0.28%	0.81%	0.77%	0.51%	1.14%	1.09%	0.78%	1.57%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	
2012	51,411	655,801	707,212	51,824	663,141	714,965	52,325	672,537	724,862	0.79%	1.98%	1.89%	1.02%	2.31%	2.22%	1.27%	2.75%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	
2013	52,082	670,363	722,445	52,614	680,038	732,652	53,246	692,580	745,826	1.31%	2.22%	2.15%	1.52%	2.55%	2.47%	1.76%	2.98%	2.89%	2.89%	2.89%	2.89%	2.89%	2.89%	2.89%	
2014	52,894	684,841	737,735	53,547	696,940	750,484	54,304	712,754	767,058	1.56%	2.16%	2.12%	1.77%	2.49%	2.43%	1.99%	2.91%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	
2015	53,836	699,249	753,085	54,612	713,861	778,473	55,493	730,073	788,566	1.78%	2.10%	2.08%	1.99%	2.43%	2.40%	2.19%	2.85%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	
2016	54,713	713,752	768,465	55,613	730,963	786,576	56,611	753,697	810,308	1.63%	2.07%	2.04%	1.83%	2.40%	2.36%	2.02%	2.81%	2.76%	2.76%	2.76%	2.76%	2.76%	2.76%	2.76%	
2017	55,472	728,430	783,903	56,495	748,336	804,831	57,603	774,725	832,328	1.39%	2.06%	2.01%	1.59%	2.38%	2.32%	1.75%	2.79%	2.72%	2.72%	2.72%	2.72%	2.72%	2.72%	2.72%	
2018	56,228	743,146	799,374	57,374	765,836	823,210	58,586	790,007	854,593	1.36%	2.02%	1.97%	1.56%	2.34%	2.28%	1.71%	2.75%	2.67%	2.67%	2.67%	2.67%	2.67%	2.67%	2.67%	
2019	57,091	757,815	814,906	58,363	783,380	841,743	59,679	817,459	877,139	1.53%	1.93%	1.94%	1.72%	2.27%	2.25%	1.87%	2.70%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	
2020	57,984	772,607	830,506	59,293	801,140	860,505	60,706	839,261	899,967	1.41%	1.95%	1.91%	1.59%	2.27%	2.23%	1.72%	2.67%	2.60%	2.60%	2.60%	2.60%	2.60%	2.60%	2.60%	
2021	58,587	787,582	846,170	60,112	819,180	879,292	61,615	861,483	923,098	1.20%	1.94%	1.89%	1.38%	2.25%	2.19%	1.50%	2.65%	2.57%	2.57%	2.57%	2.57%	2.57%	2.57%	2.57%	
2022	59,238	802,659	861,807	60,887	837,418	898,305	62,474	884,039	946,513	1.11%	1.91%	1.86%	1.29%	2.23%	2.16%	1.39%	2.62%	2.54%	2.54%	2.54%	2.54%	2.54%	2.54%	2.54%	
2023	60,064	817,624	877,687	61,843	855,639	917,482	63,520	906,706	970,226	1.39%	1.86%	1.83%	1.57%	2.18%	2.13%	1.68%	2.56%	2.51%	2.51%	2.51%	2.51%	2.51%	2.51%	2.51%	
2024	60,910	832,616	893,525	62,823	873,977	936,800	64,587	929,621	994,208	1.41%	1.83%	1.80%	1.58%	2.14%	2.11%	1.68%	2.53%	2.47%	2.47%	2.47%	2.47%	2.47%	2.47%	2.47%	
2025	61,566	847,839	909,405	63,607	892,647	956,254	65,446	953,009	1,018,455	1.08%	1.83%	1.78%	1.25%	2.14%	2.08%	1.33%	2.52%	2.44%	2.44%	2.44%	2.44%	2.44%	2.44%	2.44%	
2026	62,231	863,093	925,324	64,401	911,440	975,842	66,313	976,651	1,042,964	1.08%	1.80%	1.75%	1.25%	2.11%	2.05%	1.33%	2.48%	2.41%	2.41%	2.41%	2.41%	2.41%	2.41%	2.41%	
2027	62,964	878,355	941,320	65,269	930,343	995,612	67,258	1,000,541	1,067,798	1.18%	1.77%	1.73%	1.35%	2.07%	2.03%	1.42%	2.45%	2.38%	2.38%	2.38%	2.38%	2.38%	2.38%	2.38%	
2028	63,602	893,773	957,375	66,037	949,504	1,015,541	68,095	1,024,833	1,092,928	1.01%	1.76%	1.71%	1.18%	2.06%	2.00%	1.25%	2.43%	2.35%	2.35%	2.35%	2.35%	2.35%	2.35%	2.35%	
2029	64,201	909,288	973,489	66,767	968,861	1,035,628	68,892	1,049,643	1,118,355	0.94%	1.74%	1.68%	1.1												

Bellingham



Bremerton



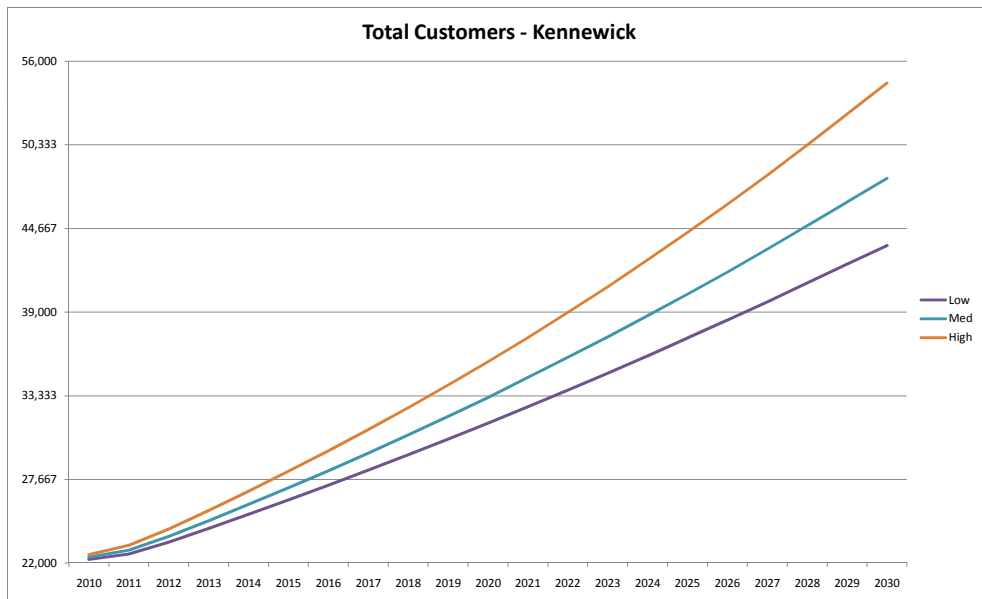
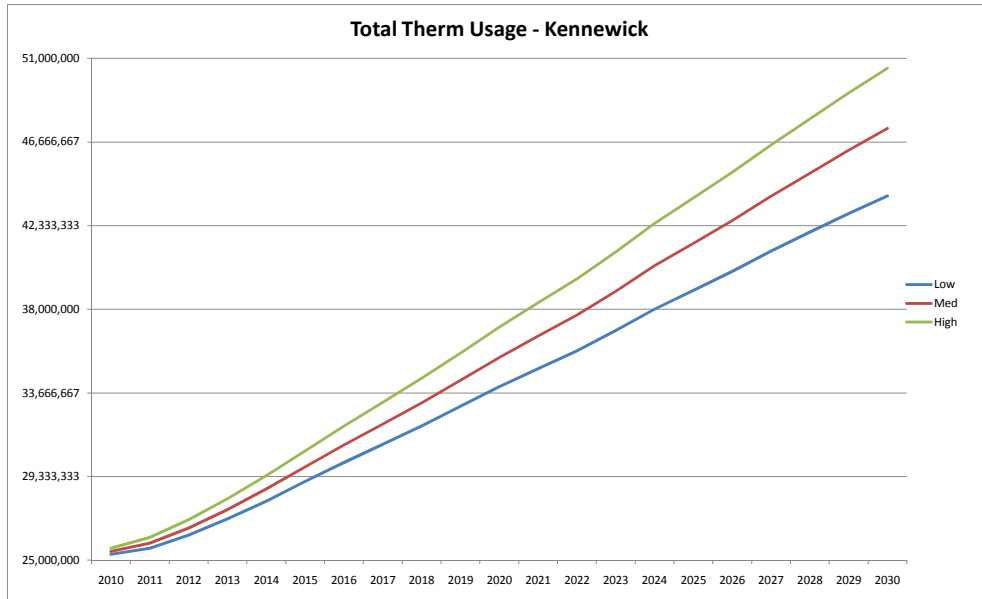
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Kennewick																	
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
2009	18,477,019	7,690,725	26,167,744	18,482,136	7,692,854	26,174,990	18,477,019	7,690,725	26,167,744								
2010	17,870,699	7,438,355	25,309,054	17,973,092	7,480,974	25,454,066	18,089,203	7,529,303	25,618,506	-3.28%	-3.28%	-3.28%	-2.75%	-2.75%	-2.75%	-2.10%	-2.10%
2011	18,095,459	7,531,907	25,627,366	18,275,715	7,606,936	25,882,651	18,482,891	7,693,169	26,176,060	1.26%	1.26%	1.26%	1.68%	1.68%	1.68%	2.18%	2.18%
2012	18,570,116	7,729,475	26,299,591	18,833,136	7,838,536	26,670,672	19,131,910	7,963,311	27,095,221	2.62%	2.62%	2.62%	3.04%	3.04%	3.04%	3.51%	3.51%
2013	19,163,989	7,976,664	27,140,653	19,511,936	8,121,490	27,633,425	19,906,264	8,285,622	28,191,886	3.20%	3.20%	3.20%	3.61%	3.61%	3.61%	4.05%	4.05%
2014	19,813,603	8,247,054	28,060,657	20,252,323	8,429,663	28,681,986	20,743,820	8,634,240	29,378,059	3.39%	3.39%	3.39%	3.79%	3.79%	3.79%	4.21%	4.21%
2015	20,524,844	8,543,095	29,067,938	21,059,632	8,765,691	29,825,322	21,651,280	9,011,953	30,663,233	3.59%	3.59%	3.59%	3.99%	3.99%	3.99%	4.37%	4.37%
2016	21,232,738	8,837,743	30,070,481	21,867,882	9,102,110	30,969,992	22,561,290	9,390,729	31,952,019	3.45%	3.45%	3.45%	3.84%	3.84%	3.84%	4.20%	4.20%
2017	21,895,842	9,113,748	31,009,590	22,633,953	9,420,973	32,054,927	23,428,896	9,751,854	33,180,749	3.12%	3.12%	3.12%	3.50%	3.50%	3.50%	3.85%	3.85%
2018	22,559,908	9,390,153	31,950,061	23,404,726	9,741,793	33,146,519	24,301,878	10,115,217	34,417,095	3.03%	3.03%	3.03%	3.41%	3.41%	3.41%	3.73%	3.73%
2019	23,277,023	9,688,639	32,965,662	24,234,541	10,087,189	34,321,729	25,236,942	10,504,420	35,741,362	3.18%	3.18%	3.18%	3.55%	3.55%	3.55%	3.85%	3.85%
2020	23,989,364	9,985,139	33,974,503	25,064,057	10,432,460	35,496,517	26,173,696	10,894,327	37,068,023	3.06%	3.06%	3.06%	3.42%	3.42%	3.42%	3.71%	3.71%
2021	24,657,111	10,263,076	34,920,187	25,851,009	10,760,014	36,611,023	27,066,808	11,266,069	38,332,877	2.78%	2.78%	2.78%	3.14%	3.14%	3.14%	3.41%	3.41%
2022	25,310,530	10,535,050	35,845,580	26,626,750	11,082,903	37,709,653	27,948,733	11,633,154	39,581,887	2.65%	2.65%	2.65%	3.00%	3.00%	3.00%	3.26%	3.26%
2023	26,046,389	10,841,338	36,887,727	27,493,163	11,443,531	38,936,694	28,925,422	12,039,683	40,961,505	2.91%	2.91%	2.91%	3.25%	3.25%	3.25%	3.49%	3.49%
2024	26,838,628	11,171,093	38,009,721	28,424,354	11,831,123	40,255,477	29,972,992	12,475,716	42,448,708	3.04%	3.04%	3.04%	3.39%	3.39%	3.39%	3.62%	3.62%
2025	27,523,528	11,566,170	39,089,698	29,425,598	12,172,951	41,418,549	30,903,515	12,863,029	43,766,544	2.55%	2.55%	2.55%	2.89%	2.89%	2.89%	3.10%	3.10%
2026	28,217,373	11,744,971	39,962,344	30,080,217	12,520,366	42,600,583	31,847,563	13,255,971	45,103,534	2.52%	2.52%	2.52%	2.85%	2.85%	2.85%	3.05%	3.05%
2027	28,955,611	12,052,249	41,007,860	30,966,039	12,889,053	43,855,093	32,845,809	13,671,473	46,517,283	2.62%	2.62%	2.62%	2.94%	2.94%	2.94%	3.13%	3.13%
2028	29,664,598	12,343,190	41,997,788	31,814,382	13,242,160	45,056,542	33,804,743	14,070,612	47,573,356	2.41%	2.41%	2.41%	2.74%	2.74%	2.74%	2.92%	2.92%
2029	30,338,960	12,628,043	42,967,003	32,650,929	13,590,358	46,241,288	34,750,845	14,464,410	49,215,255	2.31%	2.31%	2.31%	2.63%	2.63%	2.63%	2.80%	2.80%
2030	30,980,309	12,894,993	43,875,301	33,444,721	13,920,760	47,365,481	35,651,121	14,839,134	50,490,255	2.11%	2.11%	2.11%	2.43%	2.43%	2.43%	2.59%	2.59%

Peak Day - BaseLoad								Annual Change					
Low		Medium		High		Low		Medium		High			
Daily BaseLoad	Peak	Daily BaseLoad	Peak	Daily BaseLoad	Peak	Base	Peak	Base	Peak	Base	Peak		
2009	21,070	330,951	352,022	21,076	330,971	352,047	21,070	330,951	352,022				
2010	20,379	332,720	353,999	20,496	334,852	355,348	20,628	337,555	358,184	-3.28%	0.53%		
2011	20,635	338,281	358,917	20,841	342,129	362,970	21,077	347,191	368,268	1.26%	1.67%		
2012	21,177	350,477	371,653	21,475	356,209	377,684	21,817	363,872	385,690	2.62%	3.61%		
2013	21,854	364,603	386,457	22,251	372,376	394,626	22,700	382,875	405,575	3.20%	4.03%		
2014	22,595	379,021	401,616	23,095	388,987	412,082	23,655	402,549	426,204	3.39%	3.95%		
2015	23,406	393,693	417,099	24,016	406,001	430,016	24,690	422,852	447,542	3.59%	3.87%		
2016	24,213	408,699	432,912	24,937	423,507	448,445	25,728	443,885	469,613	3.45%	3.81%		
2017	24,969	424,084	449,053	25,811	441,554	467,365	26,717	465,704	492,422	3.12%	3.76%		
2018	25,726	439,802	465,238	26,690	460,101	486,791	27,713	488,278	515,991	3.03%	3.71%		
2019	26,544	455,800	482,345	27,636	479,099	506,735	28,779	511,565	540,343	3.18%	3.64%		
2020	27,357	472,183	499,240	28,556	498,663	527,245	29,847	535,096	565,544	3.06%	3.59%		
2021	28,118	488,985	517,103	29,479	518,832	548,312	30,866	560,725	591,591	2.78%	3.55%		
2022	28,863	506,169	535,032	30,364	539,575	569,398	31,872	586,623	618,495	2.65%	3.51%		
2023	29,702	523,628	553,330	31,352	560,787	592,140	32,985	613,298	646,283	2.91%	3.45%		
2024	30,606	541,367	571,973	32,414	582,474	614,884	34,180	640,743	674,923	3.04%	3.39%		
2025	31,387	559,601	590,988	33,351	604,862	638,213	35,241	669,233	704,474	2.55%	3.37%		
2026	32,178	578,181	610,359	34,302	627,813	662,115	36,318	698,614	734,932	2.52%	3.32%		
2027	33,020	597,056	630,076	35,312	651,261	686,574	37,456	728,824	766,280	2.62%	3.26%		
2028	33,817	616,372	650,189	36,280	675,385	711,665	38,550	760,076	798,625	2.41%	3.24%		
2029	34,597	636,075	670,672	37,234	700,125	737,359	39,629	792,310	831,939	2.31%	3.20%		
2030	35,329	655,311	690,639	38,139	724,537	762,676	40,655	824,459	865,114	2.11%	3.02%		

Therm 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
2009	12,039,314	14,128,430	26,167,744	12,039,314	14,135,676	26,174,990	12,039,314	14,128,430	26,167,744								
2010	11,497,684	13,811,370	25,309,054	11,571,788	13,882,277	25,454,066	11,660,670	13,957,836	25,618,506	-4.50%	-2.24%	-3.28%	-3.88%	-1.79%	-2.75%	-3.15%	-2.10%
2011	11,636,599	13,990,767	25,627,366	11,768,505	14,114,145	25,882,651	11,932,245	14,243,815	26,176,060	2.89%	2.40%	2.62%	3.70%	1.67%	1.68%	2.33%	2.05%
2012	11,972,963	14,326,628	26,299,591	12,167,065	14,503,607	26,670,672	12,410,925	14,684,295	27,095,221	2.89%	2.40%	2.62%	3.70%	1.67%	1.68%	2.33%	2.05%
2013	12,384,566	14,756,087	27,140,653	12,645,195	14,988,231	27,633,425	12,974,495	15,217,391	28,191,886	3.44%	3.00%	3.20%	3.93%	3.34%	3.61%	4.54%	3.63%
2014	12,828,323	15,232,334	28,060,657	13,160,184	15,521,802	28,681,986	13,580,627	15,797,432	28,956,233	3.58%	3.23%	3.39%	4.07%	3.56%	3.79%	4.63%	4.21%
2015	13,319,316	15,748,622	29,067,938	13,727,762	16,097,560	29,825,322	14,245,918	16,413,210	30,663,233	3.83%	3.39%	3.59%	4.31%	3.71%	3.99%	4.90%	4.37%
2016	13,836,279	16,234,202	30,070,481	14,326,692	16,643,301	30,969,993	14,949,023	17,002,996	31,952,019	3.88%	3.08%	3.45%	4.36%	3.89%	3.94%	4.94%	4.20%
2017	14,325,514	16,684,076	31,009,590	14,901,373	17,153,554	32,054,927	15,632,000	17,548,749	33,180,749	3.54%	2.77%	3.12%	4.01%	3.07%	3.50%	4.57%	3.21%
2018	14,813,527	17,136,535	31,950,061	15,479,104	17,667,415	33,146,519	16,323,113	18,093,981	34,417,095	3.41%	2.71%	3.03%	3.88%	3.00%	3.41%	4.42%	3.11%
2019	15,338,508	17,627,154	32,965,662	16,099,977	18,221,753	34,321,729	17,064,870	18,676,492	35,741,362	3.54%	2.86%	3.18%	4.01%	3.14%	3.55%	4.54%	3.22%
2020	15,883,941	18,090,562	33,974,503	16,747,227	18,749,290	35,496,517	17,840,263	19,227,760	37,068,023	3.56%	2.63%	3.06%	4.02%	2.90%	3.42%	4.54%	2.95%
2021	16,400,955	18,519,232	34,920,187	17,369,254	19,241,769	36,611,023	18,594,215	19,738,662	38,332,877	3.25%	2.37%	2.78%	3.71%	2.63%	3.14%	4.23%	2.66%
2022	16,911,047	18,934,533	35,845,580	17,988,499	19,721,154	37,709,653	19,350,360	20,231,527	39,581,887	3.11%	2.24%	2.65%	3.57%	2.49%	3.00%	4.07%	2.50%
2023	17,469,620	19,418,107	36,887,727	18,664,199	20,272,496	38,936,694	20,172,553	20,792,552	40,961,505	3.30%	2.55%	2.91%	3.76%	2.80%	3.25%	4.25%	2.77%
2024	18,130,266	19,879,455	38,009,721	19,454,193	20,801,284	40,255,477	21,124,087	21,324,621	42,448,708	3.78%	2.38%	3.04%	4.23%	2.61%	3.39%	4.72%	2.56%
2025	18,688,199	20,291,500	39,089,698	20,139,420	21,279,120	41,418,549	21,967,838	22,798,706	43,766,544	3.08%	2.07%	2.55%	3.52%	2.30%	2.89%	3.99%	2.22%
2026	19,255,861																

Kennewick



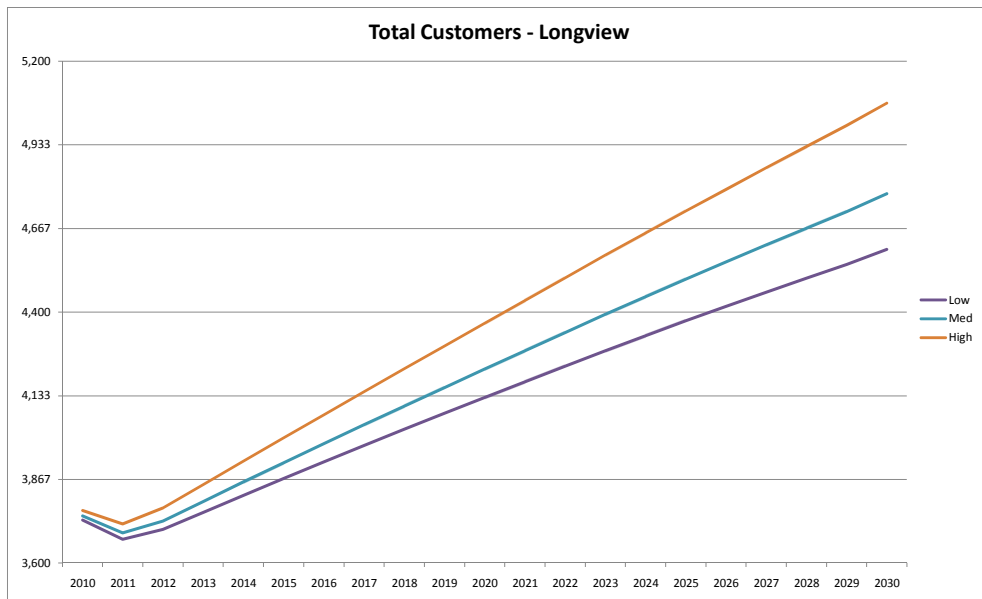
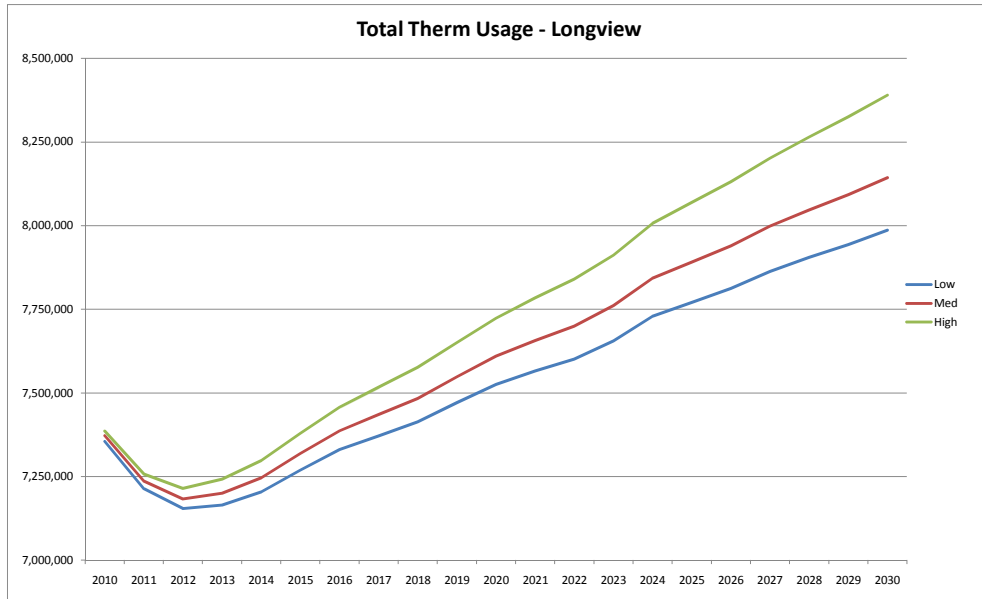
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Longview																		
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
2009	4,300,871	3,120,206	7,421,077	4,236,409	3,073,440	7,309,850	4,300,871	3,120,206	7,421,077	-0.88%	-0.88%	-0.88%	0.85%	0.85%	0.85%	-0.48%	-0.48%	-0.48%
2010	4,262,949	3,092,694	7,355,644	4,272,418	3,099,564	7,371,983	4,280,415	3,105,365	7,385,780	-1.93%	-1.93%	-1.93%	-1.83%	-1.83%	-1.83%	-1.73%	-1.73%	-1.73%
2011	4,180,838	3,033,125	7,213,963	4,194,023	3,042,689	7,236,712	4,206,388	3,051,660	7,258,048	-0.83%	-0.83%	-0.83%	-0.74%	-0.74%	-0.74%	-0.59%	-0.59%	-0.59%
2012	4,146,338	3,008,095	7,154,433	4,163,162	3,020,301	7,183,463	4,181,388	3,033,523	7,214,912	0.14%	0.14%	0.14%	0.23%	0.23%	0.23%	0.38%	0.38%	0.38%
2013	4,152,251	3,012,385	7,164,636	4,172,924	3,027,383	7,200,307	4,197,178	3,044,978	7,242,156	0.55%	0.55%	0.55%	0.64%	0.64%	0.64%	0.77%	0.77%	0.77%
2014	4,175,053	3,028,927	7,203,981	4,199,637	3,046,763	7,246,400	4,229,517	3,068,440	7,297,957	0.91%	0.91%	0.91%	1.00%	1.00%	1.00%	1.11%	1.11%	1.11%
2015	4,212,855	3,056,352	7,269,207	4,241,562	3,077,178	7,318,740	4,276,580	3,102,583	7,379,163	0.84%	0.84%	0.84%	0.93%	0.93%	0.93%	1.06%	1.06%	1.06%
2016	4,248,167	3,081,970	7,330,137	4,280,991	3,105,784	7,386,775	4,321,767	3,135,366	7,457,133	0.57%	0.57%	0.57%	0.66%	0.66%	0.66%	0.80%	0.80%	0.80%
2017	4,272,324	3,099,496	7,371,820	4,309,146	3,126,209	7,435,355	4,356,433	3,160,515	7,516,948	0.56%	0.56%	0.56%	0.65%	0.65%	0.65%	0.79%	0.79%	0.79%
2018	4,296,330	3,116,912	7,413,242	4,337,123	3,146,506	7,483,630	4,390,897	3,185,519	7,576,416	0.78%	0.78%	0.78%	0.86%	0.86%	0.86%	0.98%	0.98%	0.98%
2019	4,329,738	3,141,148	7,470,886	4,374,606	3,173,699	7,548,305	4,434,007	3,216,794	7,650,801	0.73%	0.73%	0.73%	0.82%	0.82%	0.82%	0.95%	0.95%	0.95%
2020	4,361,410	3,164,126	7,525,536	4,410,369	3,199,645	7,610,014	4,476,303	3,247,479	7,723,782	0.53%	0.53%	0.53%	0.62%	0.62%	0.62%	0.77%	0.77%	0.77%
2021	4,384,499	3,180,877	7,565,376	4,437,512	3,219,336	7,656,848	4,510,984	3,272,639	7,783,623	0.48%	0.48%	0.48%	0.56%	0.56%	0.56%	0.73%	0.73%	0.73%
2022	4,405,337	3,195,994	7,601,331	4,462,427	3,237,412	7,699,839	4,543,874	3,296,500	7,840,374	0.71%	0.71%	0.71%	0.79%	0.79%	0.79%	0.91%	0.91%	0.91%
2023	4,436,523	3,218,619	7,655,142	4,497,684	3,262,990	7,760,674	4,585,090	3,326,402	7,911,492	0.97%	0.97%	0.97%	1.05%	1.05%	1.05%	1.20%	1.20%	1.20%
2024	4,479,626	3,249,890	7,729,516	4,545,348	3,297,570	7,842,918	4,640,090	3,366,303	8,006,394	0.53%	0.53%	0.53%	0.61%	0.61%	0.61%	0.77%	0.77%	0.77%
2025	4,503,304	3,267,068	7,770,372	4,573,166	3,317,751	7,890,917	4,676,014	3,392,366	8,068,380	0.54%	0.54%	0.54%	0.62%	0.62%	0.62%	0.77%	0.77%	0.77%
2026	4,527,470	3,284,599	7,812,069	4,601,453	3,338,273	7,939,726	4,712,167	3,418,594	8,130,761	0.65%	0.65%	0.65%	0.73%	0.73%	0.73%	0.87%	0.87%	0.87%
2027	4,556,913	3,305,960	7,862,873	4,635,123	3,362,700	7,997,823	4,753,157	3,448,332	8,201,489	0.53%	0.53%	0.53%	0.61%	0.61%	0.61%	0.77%	0.77%	0.77%
2028	4,581,218	3,323,593	7,904,811	4,663,597	3,383,358	8,046,955	4,789,940	3,475,017	8,264,956	0.48%	0.48%	0.48%	0.56%	0.56%	0.56%	0.73%	0.73%	0.73%
2029	4,603,390	3,339,679	7,943,069	4,689,914	3,402,450	8,092,364	4,824,811	3,500,315	8,325,127	0.55%	0.55%	0.55%	0.63%	0.63%	0.63%	0.78%	0.78%	0.78%
2030	4,628,687	3,358,031	7,986,717	4,719,389	3,423,834	8,143,223	4,862,307	3,527,518	8,389,825									

Peak Day - BaseLoad										Annual Change									
	Low			Medium			High			Base	Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak		Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	8,549	75,843	84,391	8,420	73,504	81,924	8,549	75,843	84,391	-0.88%	-3.80%	-3.50%	0.85%	-0.36%	-0.24%	-0.48%	-2.95%	-2.70%	
2010	8,473	72,963	81,436	8,492	73,237	81,729	8,508	73,604	82,112	-1.93%	-1.60%	-1.63%	-1.83%	-1.40%	-1.45%	-1.73%	-1.07%	-1.14%	
2011	8,310	71,797	80,107	8,336	72,211	80,547	8,361	72,819	81,180	-0.83%	1.05%	0.85%	-0.74%	1.25%	1.05%	-0.59%	1.59%	1.36%	
2012	8,241	72,551	80,792	8,275	73,114	81,389	8,311	73,975	82,286	0.14%	1.62%	1.47%	0.23%	1.82%	1.66%	0.38%	2.16%	1.98%	
2013	8,253	73,729	81,982	8,294	74,448	82,742	8,342	75,571	83,913	0.55%	1.53%	1.43%	0.64%	1.73%	1.62%	0.77%	2.05%	1.92%	
2014	8,298	74,858	83,156	8,347	75,733	84,080	8,407	77,121	85,528	0.91%	1.47%	1.41%	1.00%	1.66%	1.60%	1.11%	1.99%	1.90%	
2015	8,374	75,956	84,330	8,431	76,993	85,423	8,500	78,654	87,154	0.84%	1.43%	1.37%	0.93%	1.62%	1.55%	1.06%	1.94%	1.85%	
2016	8,444	77,041	85,485	8,509	78,240	86,749	8,590	80,176	88,766	0.57%	1.42%	1.34%	0.66%	1.61%	1.52%	0.80%	1.91%	1.81%	
2017	8,492	78,135	86,626	8,565	79,499	88,064	8,659	81,711	90,370	0.56%	1.38%	1.30%	0.65%	1.57%	1.48%	0.96%	1.87%	1.76%	
2018	8,539	79,212	87,752	8,621	80,744	89,365	8,727	83,236	91,964	0.78%	1.32%	1.27%	0.86%	1.51%	1.45%	1.08%	1.80%	1.73%	
2019	8,606	80,260	88,865	8,695	81,961	90,656	8,813	84,738	93,551	0.73%	1.29%	1.23%	0.82%	1.47%	1.41%	0.95%	1.76%	1.68%	
2020	8,669	81,293	89,962	8,766	83,165	91,931	8,897	86,226	95,123	0.53%	1.29%	1.22%	0.62%	1.45%	1.39%	0.77%	1.75%	1.66%	
2021	8,715	82,343	91,057	8,820	84,389	93,208	8,966	87,738	96,704	0.48%	1.27%	1.20%	0.56%	1.45%	1.37%	0.73%	1.73%	1.64%	
2022	8,756	83,391	92,147	8,870	85,615	94,485	9,032	89,257	98,289	0.71%	1.20%	1.16%	0.79%	1.38%	1.32%	0.91%	1.66%	1.59%	
2023	8,818	84,394	93,213	8,940	86,797	95,736	9,113	90,734	99,848	0.97%	1.14%	1.12%	1.06%	1.31%	1.29%	1.20%	1.58%	1.54%	
2024	8,904	85,354	94,258	9,034	87,933	96,967	9,223	92,164	101,387	0.53%	1.15%	1.09%	0.61%	1.32%	1.26%	0.77%	1.58%	1.51%	
2025	8,951	86,337	95,287	9,100	89,096	98,186	9,294	93,621	102,915	0.54%	1.11%	1.06%	0.62%	1.28%	1.22%	0.77%	1.54%	1.47%	
2026	8,999	87,298	96,297	9,146	90,238	99,384	9,366	95,059	104,425	0.65%	1.07%	1.03%	0.73%	1.23%	1.19%	0.87%	1.48%	1.43%	
2027	9,057	88,230	97,288	9,213	91,352	100,565	9,447	96,469	105,917	0.53%	1.05%	1.00%	0.61%	1.21%	1.16%	0.77%	1.45%	1.39%	
2028	9,106	89,155	98,261	9,269	92,459	101,728	9,521	97,871	107,391	0.48%	1.02%	0.97%	0.56%	1.19%	1.13%	0.73%	1.42%	1.36%	
2029	9,150	90,068	99,218	9,322	93,556	102,877	9,590	99,262	108,852	0.55%	1.10%	1.05%	0.63%	1.26%	1.20%	0.78%	1.50%	1.43%	
2030	9,200	91,058	100,258	9,380	94,736	104,117	9,664	100,749	110,413										

Therm Usage by Class										Annual Change									
	Low			Medium			High			RES	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
2009	1,620,348	5,800,730	7,421,077	1,558,912	5,790,938	7,309,850	1,620,348	5,800,730	7,421,077	-2.84%	-0.33%	-0.88%	1.46%	0.68%	0.85%	-1.81%	-0.10%	-0.48%	
2010	1,574,278	5,781,365	7,355,644	1,581,683	5,790,300	7,371,983	1,590,952	5,794,828	7,385,780	-2.91%	-1.66%	-1.93%	-2.68%	-1.60%	-1.83%	-2.30%	-1.57%	-1.73%	
2011	1,528,411	5,685,552	7,213,963	1,539,312	5,697,400	7,236,712	1,554,286	5,703,762	7,258,048	-0.38%	-0.94%	-0.83%	-0.15%	-0.90%	-0.74%	0.23%	-0.82%	-0.59%	
2012	1,522,547	5,631,886	7,154,433	1,537,077	5,646,386	7,183,463	1,555,991	5,656,991	7,214,912	0.67%	0.00%	0.14%	0.90%	0.05%	0.23%	1.28%	0.13%	0.38%	
2013	1,530,626	5,631,958	7,164,636	1,550,952	5,649,355	7,200,307	1,577,817	5,664,339	7,242,156	1.13%	0.39%	0.55%	1.36%	0.44%	0.64%	1.73%	0.50%	0.77%	
2014	1,552,079	5,689,876	7,269,207	1,605,492	5,713,248	7,318,740	1,645,010	5,734,152	7,379,163	1.89%	0.64%	0.91%	2.12%	0.69%	1.00%	2.49%	0.73%	1.11%	
2015	1,579,330	5,716,956	7,330,137	1,643,588	5,743,187	7,386,775	1,689,864	5,767,269	7,457,133	2.14%	0.48%	0.84%	2.37%	0.52%	0.93%	2.73%	0.56%	0.96%	
2016	1,635,835	5,735,985	7,371,820	1,670,362	5,764,992	7,435,355	1,723,191	5,793,757	7,516,948	1.40%	0.33%	0.57%	1.63%	0.38%	0.66%	1.97%	0.46%	0.80%	
2017	1,655,406	5,757,836	7,413,242	1,694,034	5,789,596	7,483,630	1,753,361	5,825,049	7,576,416	1.20%	0.38%	0.56%	1.42%	0.43%	0.65%	1.75%	0.51%	0.79%	
2018	1,682,737	5,788,149	7,470,886	1,725,713	5,822,593	7,548,305	1,791,913	5,858,888	7,650,801	1.65%	0.53%	0.78%	1.87%	0.57%	0.86%	2.20%	0.62%	0.98%	
2019	1,712,411	5,813,125	7,525,536	1,759,825	5,850,189	7,610,014	1,833,056	5,890,726	7,723,782	1.60%	0.43%	0.73%	1.98%	0.47%	0.82%	2.30%	0.54%	0.95%	
2020	1,731,646	5,8																	

Longview

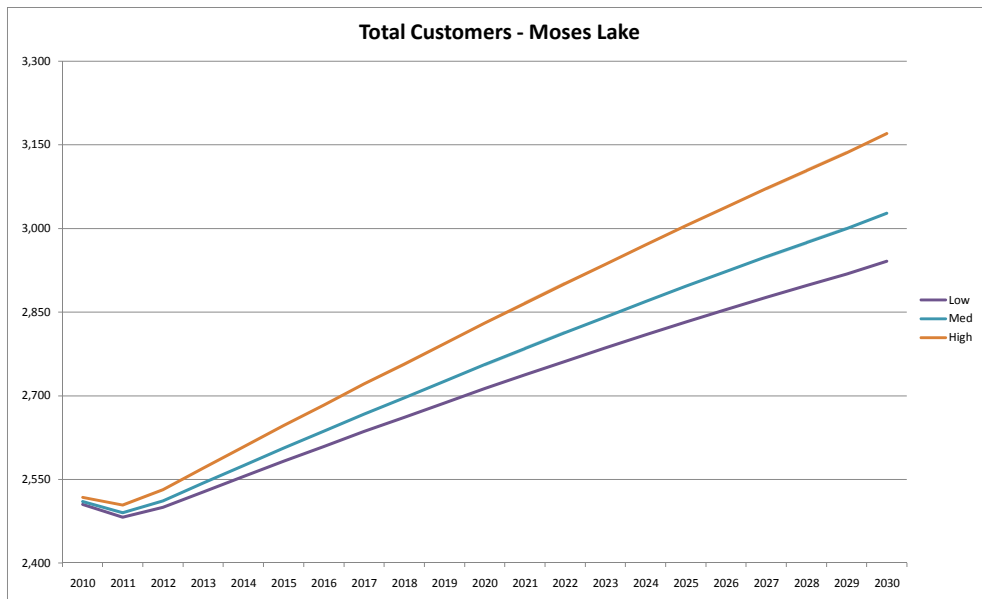
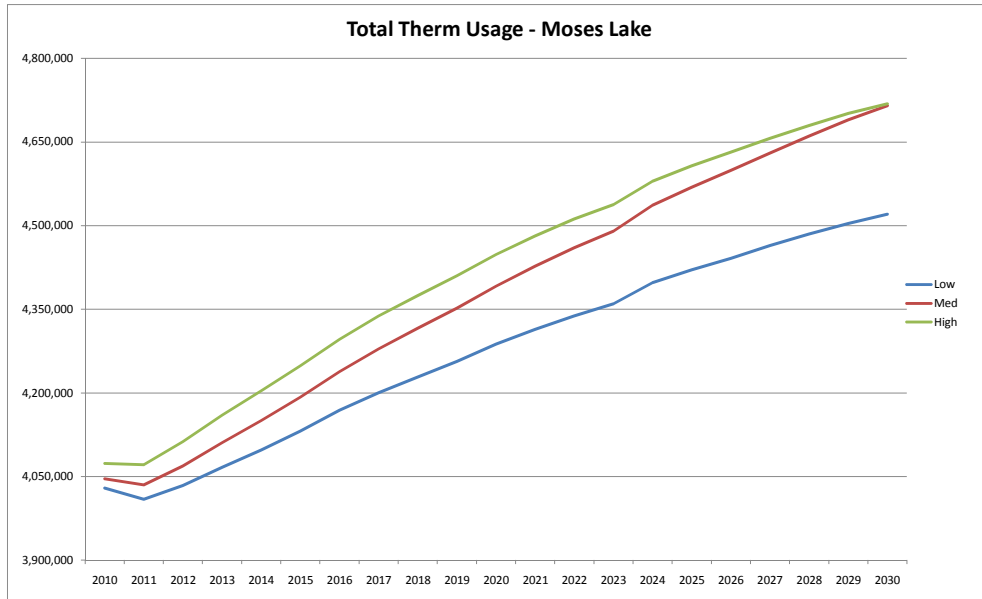


Moses Lake																		
Annual Requirements (Therms)											Annual Change							
Low			Medium			High			Low			Medium			High			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2009	2,874,942	1,350,801	4,225,743	2,849,557	1,338,873	4,188,430	2,874,942	1,350,801	4,225,743	-4.64%	-4.64%	-4.64%	-3.40%	-3.40%	-3.40%	-3.61%	-3.61%	-3.61%
2010	2,741,412	1,288,061	4,029,473	2,752,722	1,293,376	4,046,098	2,771,239	1,302,076	4,073,315	-5.00%	-5.00%	-5.00%	-3.40%	-3.40%	-3.40%	-0.05%	-0.05%	-0.05%
2011	2,727,796	1,281,664	4,009,460	2,745,230	1,289,855	4,035,085	2,769,875	1,301,435	4,071,309	0.62%	0.62%	0.62%	0.85%	0.85%	0.85%	1.02%	1.02%	1.02%
2012	2,744,631	1,289,544	4,034,204	2,768,440	1,300,761	4,069,201	2,798,113	1,314,703	4,112,816	0.62%	0.62%	0.62%	0.85%	0.85%	0.85%	1.02%	1.02%	1.02%
2013	2,766,701	1,299,943	4,066,644	2,796,725	1,314,050	4,110,775	2,830,195	1,329,776	4,159,971	0.80%	0.80%	0.80%	1.02%	1.02%	1.02%	1.15%	1.15%	1.15%
2014	2,787,913	1,309,910	4,097,823	2,823,883	1,326,810	4,150,693	2,860,095	1,343,825	4,203,920	0.77%	0.77%	0.77%	0.97%	0.97%	0.97%	1.06%	1.06%	1.06%
2015	2,810,708	1,320,620	4,131,328	2,852,336	1,340,180	4,192,516	2,890,420	1,358,073	4,248,493	0.82%	0.82%	0.82%	1.01%	1.01%	1.01%	1.07%	1.07%	1.07%
2016	2,836,042	1,332,524	4,168,566	2,883,419	1,354,784	4,238,203	2,922,763	1,373,270	4,296,033	0.90%	0.90%	0.90%	1.09%	1.09%	1.09%	1.12%	1.12%	1.12%
2017	2,857,833	1,342,762	4,200,595	2,911,227	1,367,850	4,279,076	2,951,313	1,386,684	4,337,997	0.77%	0.77%	0.77%	0.96%	0.96%	0.96%	0.98%	0.98%	0.98%
2018	2,876,744	1,351,648	4,228,391	2,936,046	1,379,511	4,315,557	2,976,143	1,398,550	4,374,693	0.66%	0.66%	0.66%	0.85%	0.85%	0.85%	0.84%	0.84%	0.84%
2019	2,895,905	1,360,650	4,256,555	2,960,796	1,391,140	4,351,935	3,000,323	1,409,712	4,410,034	0.67%	0.67%	0.67%	0.84%	0.84%	0.84%	0.81%	0.81%	0.81%
2020	2,917,165	1,370,640	4,287,805	2,987,870	1,403,861	4,391,731	3,026,397	1,421,963	4,448,360	0.73%	0.73%	0.73%	0.91%	0.91%	0.91%	0.87%	0.87%	0.87%
2021	2,935,002	1,379,020	4,314,022	3,011,859	1,415,132	4,426,990	3,048,925	1,432,548	4,481,473	0.61%	0.61%	0.61%	0.80%	0.80%	0.80%	0.74%	0.74%	0.74%
2022	2,951,220	1,386,640	4,337,860	3,034,449	1,425,746	4,460,195	3,069,452	1,442,259	4,511,853	0.55%	0.55%	0.55%	0.75%	0.75%	0.75%	0.58%	0.58%	0.58%
2023	2,966,261	1,393,707	4,359,968	3,054,916	1,435,352	4,490,278	3,087,452	1,450,650	4,538,102	0.51%	0.51%	0.51%	0.67%	0.67%	0.67%	0.58%	0.58%	0.58%
2024	2,991,864	1,405,737	4,397,601	3,085,339	1,450,126	4,536,465	3,115,938	1,464,034	4,579,972	0.86%	0.86%	0.86%	1.03%	1.03%	1.03%	0.92%	0.92%	0.92%
2025	3,007,579	1,413,121	4,420,701	3,108,457	1,460,519	4,568,976	3,134,695	1,472,847	4,607,542	0.53%	0.53%	0.53%	0.72%	0.72%	0.72%	0.60%	0.60%	0.60%
2026	3,021,850	1,419,826	4,441,676	3,128,959	1,470,151	4,599,110	3,151,241	1,480,621	4,631,863	0.47%	0.47%	0.47%	0.66%	0.66%	0.66%	0.53%	0.53%	0.53%
2027	3,037,220	1,427,048	4,464,268	3,150,220	1,480,141	4,630,361	3,168,113	1,488,548	4,656,661	0.51%	0.51%	0.51%	0.68%	0.68%	0.68%	0.54%	0.54%	0.54%
2028	3,051,249	1,433,639	4,484,888	3,170,714	1,489,770	4,660,484	3,183,819	1,495,928	4,679,747	0.46%	0.46%	0.46%	0.65%	0.65%	0.65%	0.50%	0.50%	0.50%
2029	3,064,394	1,439,815	4,504,209	3,190,643	1,499,134	4,689,778	3,198,625	1,502,884	4,701,509	0.43%	0.43%	0.43%	0.63%	0.63%	0.63%	0.47%	0.47%	0.47%
2030	3,075,446	1,445,008	4,520,454	3,207,941	1,507,261	4,715,202	3,210,432	1,508,432	4,718,864	0.36%	0.36%	0.36%	0.54%	0.54%	0.54%	0.37%	0.37%	0.37%

Peak Day - BaseLoad											Annual Change						
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	3,701	77,603	81,304	3,668	75,691	79,359	3,701	77,603	81,304	-4.64%	-2.26%	-2.37%	-3.40%	0.21%	-3.61%	-1.81%	-1.89%
2010	3,529	75,849	79,378	3,543	75,986	79,529	3,567	76,199	79,766	-5.00%	-0.95%	-0.93%	-0.27%	-0.81%	-0.79%	-0.05%	-0.54%
2011	3,511	75,128	78,639	3,534	75,367	78,901	3,566	75,770	79,335	0.62%	0.72%	0.71%	0.85%	0.86%	0.86%	1.02%	1.11%
2012	3,533	75,667	79,200	3,564	76,013	79,577	3,602	76,613	80,215	0.62%	1.14%	1.12%	1.02%	1.28%	1.27%	1.15%	1.53%
2013	3,561	76,527	80,089	3,600	76,984	80,585	3,643	77,789	81,432	0.80%	1.14%	1.12%	1.02%	1.28%	1.27%	1.15%	1.53%
2014	3,589	77,373	80,961	3,635	77,941	81,576	3,682	78,952	82,634	0.77%	1.10%	1.09%	0.97%	1.24%	1.23%	1.06%	1.49%
2015	3,618	78,217	81,835	3,672	78,902	82,574	3,721	80,125	83,846	0.82%	1.09%	1.08%	1.01%	1.23%	1.22%	1.06%	1.49%
2016	3,651	79,019	82,670	3,712	79,818	83,530	3,762	81,249	85,012	0.90%	1.03%	1.02%	1.09%	1.16%	1.16%	1.12%	1.40%
2017	3,679	79,839	83,517	3,748	80,755	84,503	3,799	82,401	86,201	0.77%	1.04%	1.02%	0.96%	1.17%	1.16%	0.98%	1.42%
2018	3,703	80,624	84,327	3,779	81,656	85,436	3,831	83,514	87,345	0.66%	0.98%	0.97%	0.85%	1.12%	1.10%	0.84%	1.35%
2019	3,728	81,406	85,134	3,811	82,558	86,370	3,862	84,632	88,494	0.67%	0.97%	0.96%	0.84%	1.10%	1.09%	0.81%	1.34%
2020	3,755	82,192	85,947	3,846	83,467	87,313	3,896	85,761	89,657	0.73%	0.97%	0.96%	0.81%	1.10%	1.09%	0.87%	1.33%
2021	3,778	82,951	86,729	3,877	84,347	88,224	3,925	86,659	90,784	0.61%	0.92%	0.91%	0.80%	1.05%	1.04%	0.74%	1.28%
2022	3,799	83,705	87,504	3,906	85,226	89,132	3,951	87,960	91,911	0.55%	0.91%	0.89%	0.75%	1.04%	1.03%	0.68%	1.27%
2023	3,818	84,439	88,258	3,932	86,084	90,016	3,974	89,038	93,013	0.51%	0.88%	0.86%	0.73%	1.01%	0.99%	0.58%	1.23%
2024	3,851	85,157	89,008	3,973	86,929	90,902	4,011	90,108	94,119	0.86%	0.85%	0.85%	1.03%	0.98%	0.98%	0.92%	1.20%
2025	3,872	85,870	89,741	4,001	87,768	91,770	4,035	91,171	95,206	0.53%	0.84%	0.82%	0.72%	0.97%	0.95%	0.60%	1.18%
2026	3,890	86,557	90,447	4,028	88,583	92,611	4,056	92,208	96,265	0.47%	0.80%	0.79%	0.66%	0.93%	0.92%	0.53%	1.14%
2027	3,910	87,229	91,139	4,055	89,385	93,440	4,078	93,233	97,312	0.51%	0.78%	0.77%	0.68%	0.91%	0.90%	0.54%	1.11%
2028	3,928	87,877	91,805	4,082	90,163	94,245	4,098	94,234	98,332	0.46%	0.74%	0.73%	0.65%	0.87%	0.86%	0.50%	1.07%
2029	3,945	88,525	92,469	4,107	90,941	95,049	4,117	95,236	99,353	0.43%	0.74%	0.72%	0.63%	0.86%	0.85%	0.47%	1.06%
2030	3,959	89,242	93,201	4,129	91,793	95,922	4,133	96,314	100,447	0.36%	0.81%	0.79%	0.54%	0.94%	0.92%	0.37%	1.13%

Therm 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
2009	1,165,598	3,060,146	4,225,743	1,128,284	3,060,146	4,188,430	1,165,598	3,060,146	4,225,743	-4.39%	-4.74%	-4.64%	-0.95%	-4.30%	-3.40%	-3.43%	-3.67%
2010	1,114,430	2,915,043	4,029,473	1,117,615	2,928,483	4,046,098	1,125,592	2,947,723	4,073,315	-2.11%	0.12%	-0.50%	-2.00%	0.39%	-0.27%	-1.78%	0.61%
2011	1,090,910	2,918,550	4,009,460	1,095,300	2,939,777	4,035,085	1,105,601	2,965,708	4,071,309	-0.78%	1.14%	0.62%	-0.69%	1.42%	0.85%	-0.54%	1.60%
2012	1,082,355	2,951,849	4,034,204	1,087,752	2,981,449	4,069,201	1,099,601	3,013,216	4,112,816	-0.10%	1.13%	0.80%	-0.02%	1.40%	1.02%	0.08%	1.54%
2013	1,081,295	2,985,349	4,066,644	1,087,579	3,023,196	4,110,775	1,100,455	3,059,516	4,159,971	-0.10%	1.13%	0.80%	-0.02%	1.40%	1.02%	0.08%	1.54%
2014	1,084,554	3,013,270	4,097,823	1,091,579	3,059,114	4,150,693	1,105,024	3,098,896	4,203,920	0.30%	0.94%	0.77%	0.37%	1.19%	0.97%	0.42%	1.29%
2015	1,095,340	3,035,989	4,131,328	1,103,110	3,089,406	4,192,516	1,116,866	3,131,627	4,248,493	0.99%	0.75%	0.82%	1.06%	0.99%	1.01%	1.07%	1.06%
2016	1,108,166	3,060,400	4,168,566	1,116,531	3,121,673	4,238,203	1,130,174	3,165,859	4,296,033	1.17%	0.80%	0.90%	1.22%	1.04%	1.09%	1.19%	1.02%
2017	1,113,467	3,087,128	4,200,595	1,122,327	3,156,750	4,279,076	1,135,501	3,202,496	4,337,997	0.48%	0.87%	0.77%	0.52%	1.12%	0.96%	0.47%	1.16%
2018	1,115,901	3,112,941	4,228,391	1,125,083	3,190,474	4,315,557	1,137,356	3,237,137	4,374,693	0.22%	0.82%	0.66%	0.25%	1.07%	0.85%	0.16%	1.08%
2019	1,123,124	3,133,431	4,256,555	1,132,639	3,219,296	4,351,935	1,143,833	3,266,201	4,410,034	0.65%	0.67%	0.67%	0.67%	0.90%	0.84%	0.57%	0.90%
2020	1,131,805	3,156,001	4,287,805	1,141,618	3,250,112	4,391,731	1,151,531	3,296,829	4,448,360	0.77%	0.72%	0.73%	0.79%	0.96%	0.91%	0.67%	0.94%
2021	1,132,914	3,181,108	4,314,022	1,142,860	3,284,130												

Moses Lake



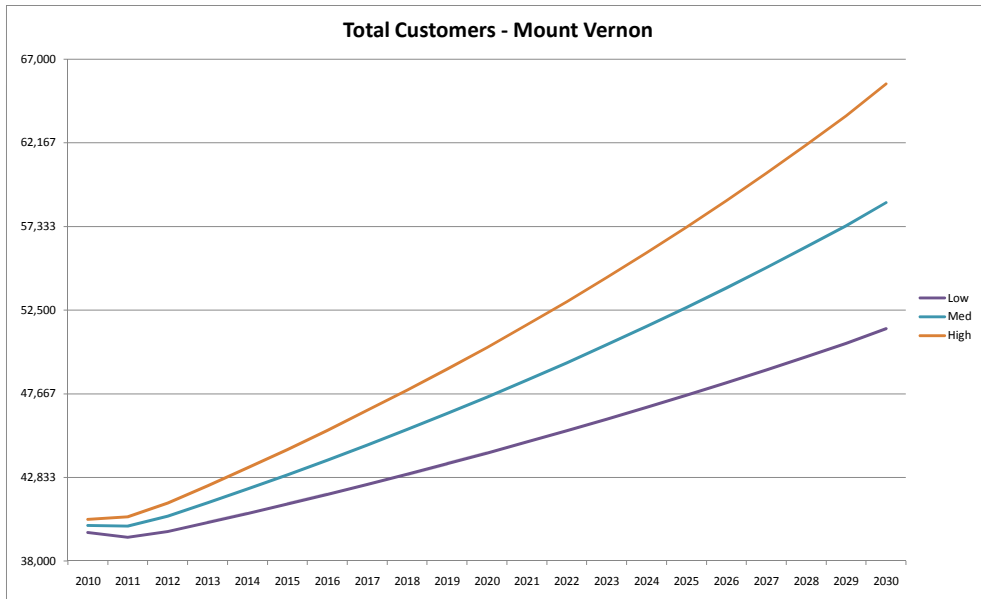
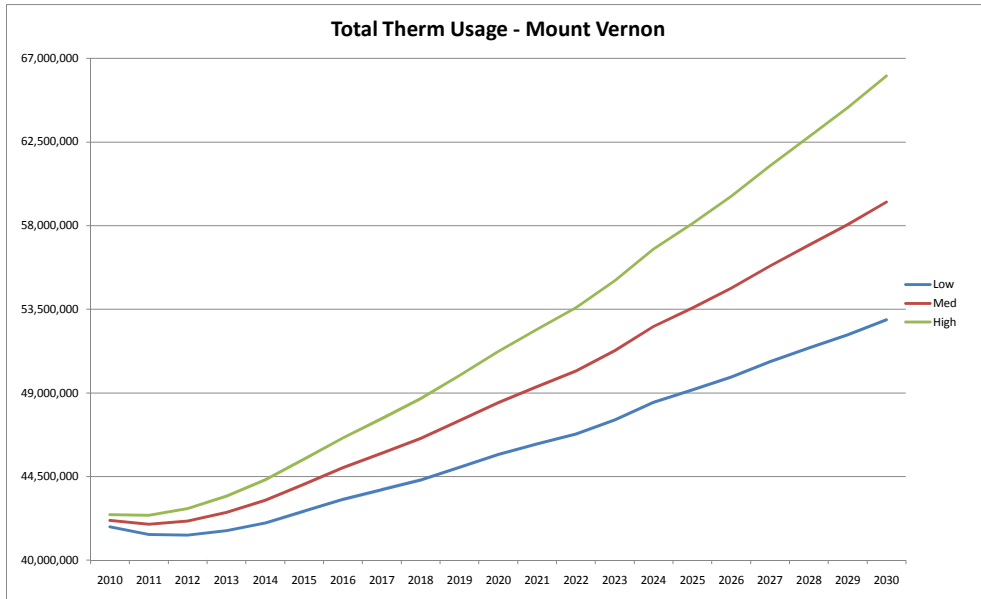
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Mount Vernon																		
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
2009	28,020,389	15,595,688	43,616,077	27,870,091	15,512,034	43,382,125	28,020,389	15,595,688	43,616,077	-4.17%	-4.17%	-4.17%	-2.85%	-2.85%	-2.85%	-2.68%	-2.68%	-2.68%
2010	26,851,522	14,945,115	41,796,638	27,075,446	15,069,748	42,145,194	27,268,324	15,177,101	42,445,425	-0.98%	-0.98%	-0.98%	-0.49%	-0.49%	-0.49%	-0.06%	-0.06%	-0.06%
2011	26,588,277	14,798,597	41,386,874	26,942,370	14,995,680	41,938,049	27,253,071	15,168,611	42,421,681	-0.11%	-0.11%	-0.11%	0.39%	0.39%	0.39%	0.84%	0.84%	0.84%
2012	26,559,543	14,782,605	41,342,148	27,047,667	15,054,286	42,101,954	27,482,949	15,296,557	42,779,507	0.60%	0.60%	0.60%	1.11%	1.11%	1.11%	1.58%	1.58%	1.58%
2013	26,718,913	14,871,308	41,590,221	27,347,435	15,221,132	42,568,567	27,916,482	15,453,825	43,374,337	1.01%	1.01%	1.01%	1.53%	1.53%	1.53%	2.01%	2.01%	2.01%
2014	26,990,098	15,022,244	42,012,342	27,765,501	15,453,821	43,219,323	28,477,584	15,850,155	44,327,739	1.48%	1.48%	1.48%	2.00%	2.00%	2.00%	2.49%	2.49%	2.49%
2015	27,388,433	15,243,951	42,632,384	28,319,679	15,762,267	44,081,946	29,186,337	16,244,635	45,430,971	1.50%	1.50%	1.50%	2.03%	2.03%	2.03%	2.53%	2.53%	2.53%
2016	27,800,503	15,473,303	43,273,806	28,894,647	16,082,285	44,976,933	29,925,224	16,655,887	46,581,111	1.20%	1.20%	1.20%	1.72%	1.72%	1.72%	2.23%	2.23%	2.23%
2017	28,132,749	15,658,225	43,790,975	29,391,977	16,359,091	45,751,068	30,591,701	17,026,837	47,618,538	1.20%	1.20%	1.20%	1.73%	1.73%	1.73%	2.24%	2.24%	2.24%
2018	28,471,110	15,845,551	44,316,661	29,900,787	16,642,286	46,543,074	31,278,158	17,408,908	48,687,066	1.54%	1.54%	1.54%	2.07%	2.07%	2.07%	2.59%	2.59%	2.59%
2019	28,908,674	16,090,922	44,999,596	30,519,355	16,986,571	47,505,925	32,088,063	17,959,688	49,947,750	1.52%	1.52%	1.52%	2.06%	2.06%	2.06%	2.58%	2.58%	2.58%
2020	29,348,171	16,334,709	45,682,880	31,146,616	17,335,694	48,482,311	32,915,824	18,320,406	51,236,230	1.24%	1.24%	1.24%	1.78%	1.78%	1.78%	2.31%	2.31%	2.31%
2021	29,713,511	16,538,051	46,251,562	31,701,329	17,644,438	49,345,766	33,676,010	18,743,513	52,419,523	1.16%	1.16%	1.16%	1.70%	1.70%	1.70%	2.23%	2.23%	2.23%
2022	30,058,207	16,729,804	46,788,011	32,236,863	17,943,621	50,182,484	34,425,918	19,160,899	53,586,817	1.62%	1.62%	1.62%	2.16%	2.16%	2.16%	2.70%	2.70%	2.70%
2023	30,544,573	17,000,607	47,545,180	32,924,105	18,330,581	51,254,686	35,354,148	19,677,537	55,031,685	2.00%	2.00%	2.00%	2.55%	2.55%	2.55%	3.09%	3.09%	3.09%
2024	31,155,833	17,340,824	48,496,658	33,779,854	18,797,972	52,571,826	36,447,124	20,285,869	56,732,993	1.36%	1.36%	1.36%	1.91%	1.91%	1.91%	2.45%	2.45%	2.45%
2025	31,580,373	17,577,116	49,157,490	34,417,401	19,156,159	53,573,560	37,340,023	20,782,843	58,122,866	1.42%	1.42%	1.42%	1.96%	1.96%	1.96%	2.51%	2.51%	2.51%
2026	32,027,442	17,825,947	49,853,389	35,091,277	19,531,228	54,622,505	38,275,484	21,303,505	59,578,989	1.65%	1.65%	1.65%	2.20%	2.20%	2.20%	2.75%	2.75%	2.75%
2027	32,557,358	18,120,890	50,678,248	35,863,001	19,960,756	55,823,757	39,328,164	21,899,409	61,171,573	1.46%	1.46%	1.46%	2.01%	2.01%	2.01%	2.56%	2.56%	2.56%
2028	33,033,338	18,385,812	51,419,150	36,583,250	20,361,635	56,944,885	40,335,803	22,450,244	62,786,047	1.39%	1.39%	1.39%	1.94%	1.94%	1.94%	2.49%	2.49%	2.49%
2029	33,493,628	18,642,002	52,135,631	37,292,416	20,756,345	58,048,761	41,341,603	23,010,056	64,351,659	1.55%	1.55%	1.55%	2.10%	2.10%	2.10%	2.66%	2.66%	2.66%
2030	34,012,382	18,930,732	52,943,114	38,074,516	21,191,649	59,266,165	42,440,287	23,621,565	66,061,852									

Peak Day - BaseLoad									Annual Change									
	Low			Medium			High			Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	42,728	444,122	486,850	42,499	444,192	486,691	42,728	444,122	486,850	-4.17%	-0.50%	-0.82%	-2.85%	0.53%	0.24%	-2.68%	1.43%	1.07%
2010	40,946	441,909	482,854	41,287	446,554	487,841	41,581	450,482	492,063	-0.98%	-0.68%	-0.71%	-0.49%	-0.08%	-0.11%	-0.06%	0.42%	0.38%
2011	40,544	438,883	479,427	41,084	446,207	487,291	41,558	452,383	493,940	-0.11%	0.95%	0.86%	0.39%	1.56%	1.46%	0.84%	2.07%	1.97%
2012	40,500	443,051	483,552	41,245	453,183	494,427	41,908	461,742	503,651	0.60%	1.35%	1.29%	1.11%	1.97%	1.90%	1.58%	2.48%	2.40%
2013	40,743	449,042	489,786	41,702	462,111	503,813	42,569	473,193	515,762	1.01%	1.34%	1.31%	1.53%	1.96%	1.92%	2.01%	2.47%	2.43%
2014	41,157	455,046	496,203	42,339	471,151	513,490	43,425	484,867	528,292	1.48%	1.32%	1.33%	2.00%	1.94%	1.94%	2.49%	2.45%	2.46%
2015	41,764	461,047	502,811	43,184	480,287	523,472	44,506	496,756	541,262	1.50%	1.34%	1.35%	2.03%	1.96%	1.97%	2.53%	2.47%	2.48%
2016	42,393	467,216	509,609	44,061	489,701	533,762	45,633	509,049	554,681	1.20%	1.38%	1.37%	1.72%	2.01%	1.98%	2.23%	2.52%	2.50%
2017	42,899	473,685	516,585	44,819	499,530	544,350	46,649	521,892	568,541	1.20%	1.40%	1.39%	1.73%	2.03%	2.01%	2.24%	2.55%	2.53%
2018	43,415	480,351	523,766	45,595	509,681	555,276	47,696	535,201	582,897	1.54%	1.41%	1.41%	2.07%	2.02%	2.03%	2.59%	2.54%	2.55%
2019	44,082	487,059	531,142	46,539	519,922	566,530	48,931	548,810	597,741	1.52%	1.41%	1.42%	2.06%	2.04%	2.04%	2.58%	2.56%	2.56%
2020	44,735	493,935	538,667	47,395	530,590	578,085	50,193	562,851	613,044	1.16%	1.48%	1.45%	1.70%	2.09%	2.06%	2.31%	2.61%	2.59%
2021	45,310	501,149	546,459	48,341	541,680	590,021	51,352	577,653	629,915	1.62%	1.46%	1.44%	1.78%	2.09%	2.08%	2.32%	2.63%	2.60%
2022	45,855	508,566	554,420	49,161	553,107	602,267	52,496	592,773	645,269	1.62%	1.46%	1.47%	1.62%	2.09%	2.10%	2.70%	2.62%	2.63%
2023	46,577	515,994	562,571	50,221	564,685	614,906	53,911	608,305	662,216	2.00%	1.43%	1.48%	2.15%	2.07%	2.10%	3.09%	2.59%	2.63%
2024	47,509	523,993	570,902	51,501	576,348	627,849	55,578	624,070	679,648	1.36%	1.52%	1.50%	1.91%	2.15%	2.13%	2.45%	2.68%	2.66%
2025	48,156	531,330	579,487	52,483	588,751	641,234	56,939	640,810	697,750	1.42%	1.52%	1.51%	1.96%	2.16%	2.14%	2.51%	2.69%	2.67%
2026	48,838	539,414	588,253	53,510	601,450	654,961	58,266	658,032	716,398	1.65%	1.51%	1.52%	2.20%	2.15%	2.15%	2.75%	2.68%	2.69%
2027	49,646	547,569	597,215	54,687	614,369	669,056	59,971	675,663	735,634	1.46%	1.55%	1.54%	2.01%	2.19%	2.17%	2.56%	2.72%	2.71%
2028	50,372	556,058	606,430	55,785	627,823	683,608	61,508	694,073	755,580	1.39%	1.56%	1.55%	1.94%	2.20%	2.18%	2.49%	2.74%	2.72%
2029	51,074	564,758	615,832	56,867	641,658	698,525	63,041	713,082	776,123	1.55%	1.73%	1.71%	2.10%	2.37%	2.35%	2.66%	2.91%	2.89%
2030	51,865	574,519	626,384	58,059	656,881	714,941	64,717	733,846	798,562									

Therm 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
2009	25,468,693	18,147,384	43,616,077	25,468,693	17,913,432	43,382,125	25,468,693	18,147,384	43,616,077	-1.47%	-7.96%	-4.17%	-0.39%	-6.36%	-2.85%	0.51%	-7.16%	-2.68%
2010	25,094,569	17,702,069	41,796,638	25,370,257	17,774,937	42,145,194	25,597,705	16,847,720	42,445,425	-1.34%	-0.43%	-0.98%	-0.73%	-0.14%	-0.49%	-0.26%	0.25%	-0.06%
2011	24,757,190	16,629,684	41,386,874	25,186,179	16,751,701	41,938,049	25,531,109	16,890,572	42,421,681	-0.02%	-0.24%	-0.05%	0.07%	0.39%	0.10%	0.70%	0.50%	0.84%
2012	24,753,064	16,589,084	41,342,148	25,338,776	16,763,178	42,101,954	25,804,056	16,975,451	42,779,507	0.58%	0.63%	0.60%	1.20%	0.96%	1.11%	1.67%	1.44%	1.58%
2013	24,895,825	16,694,396	41,590,221	25,643,703	16,924,864	42,568,567	26,233,926	17,220,411	43,374,337	0.87%	1.23%							

Mount Vernon



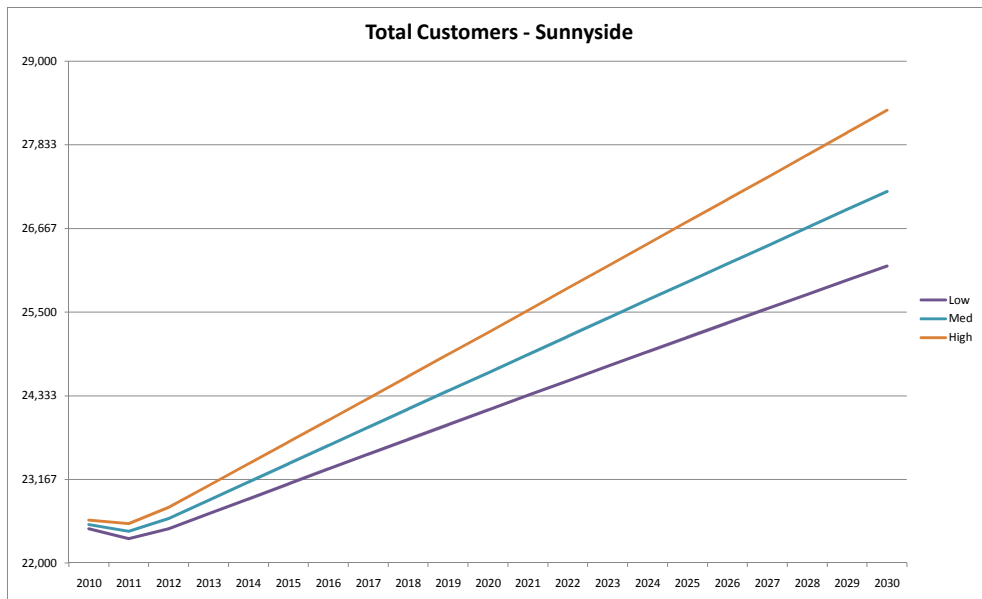
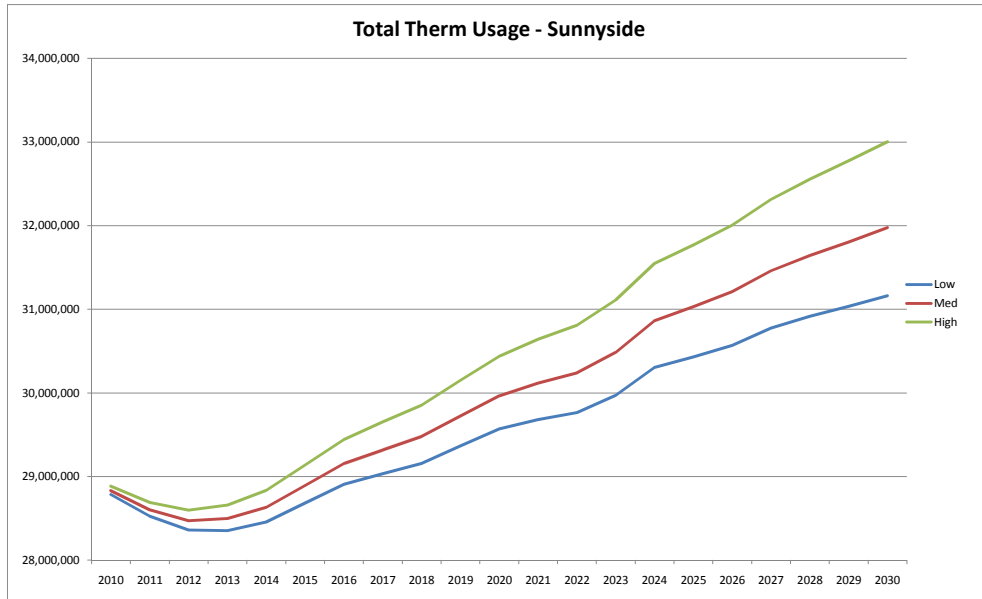
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

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	Heating	BaseLoad	Total			
2009	21,869,117	7,826,039	29,695,156	21,725,712	7,774,720	29,500,432	21,869,117	7,826,039	29,695,156	-3.06%	-3.06%	-3.06%	-2.26%	-2.26%	-2.26%	-2.73%	-2.73%	-2.73%		
2010	21,200,356	7,586,717	28,787,072	21,234,502	7,598,936	28,833,438	21,271,582	7,612,206	28,883,788	-0.91%	-0.91%	-0.91%	-0.80%	-0.80%	-0.80%	-0.67%	-0.67%	-0.67%		
2011	21,006,488	7,517,340	28,523,828	21,064,236	7,538,005	28,602,241	21,128,396	7,560,966	28,689,362	-0.57%	-0.57%	-0.57%	-0.45%	-0.45%	-0.45%	-0.32%	-0.32%	-0.32%		
2012	20,887,477	7,474,751	28,362,228	20,968,983	7,503,918	28,472,901	21,060,855	7,536,795	28,597,651	-0.57%	-0.57%	-0.57%	-0.45%	-0.45%	-0.45%	-0.32%	-0.32%	-0.32%		
2013	20,881,633	7,472,659	28,354,292	20,987,287	7,510,468	28,497,755	21,107,692	7,553,557	28,661,249	-0.03%	-0.03%	-0.03%	0.09%	0.09%	0.09%	0.22%	0.22%	0.22%		
2014	20,956,912	7,499,599	28,456,511	21,087,354	7,546,278	28,633,632	21,237,239	7,599,916	28,837,155	0.36%	0.36%	0.36%	0.48%	0.48%	0.48%	0.61%	0.61%	0.61%		
2015	21,122,687	7,558,922	28,681,609	21,279,009	7,614,863	28,893,872	21,459,806	7,679,563	29,139,370	0.79%	0.79%	0.79%	0.91%	0.91%	0.91%	1.05%	1.05%	1.05%		
2016	21,288,853	7,618,386	28,907,240	21,471,960	7,683,913	29,155,873	21,685,158	7,760,207	29,445,365	0.79%	0.79%	0.79%	0.91%	0.91%	0.91%	1.05%	1.05%	1.05%		
2017	21,382,794	7,652,004	29,034,798	21,592,319	7,726,984	29,319,303	21,838,018	7,814,910	29,652,928	0.44%	0.44%	0.44%	0.56%	0.56%	0.56%	0.70%	0.70%	0.70%		
2018	21,471,766	7,683,843	29,155,610	21,708,046	7,768,398	29,476,444	21,986,881	7,868,181	29,855,062	0.42%	0.42%	0.42%	0.54%	0.54%	0.54%	0.68%	0.68%	0.68%		
2019	21,626,636	7,739,265	29,365,901	21,890,787	7,833,793	29,724,580	22,204,242	7,945,965	30,150,207	0.72%	0.72%	0.72%	0.84%	0.84%	0.84%	0.99%	0.99%	0.99%		
2020	21,775,679	7,792,601	29,568,279	22,068,471	7,897,379	29,965,850	22,418,048	8,022,478	30,440,526	0.69%	0.69%	0.69%	0.81%	0.81%	0.81%	0.96%	0.96%	0.96%		
2021	21,859,436	7,822,574	29,682,010	22,180,286	7,937,393	30,117,678	22,565,837	8,075,365	30,641,203	0.38%	0.38%	0.38%	0.51%	0.51%	0.51%	0.66%	0.66%	0.66%		
2022	21,920,294	7,844,352	29,764,646	22,269,008	7,969,163	30,238,170	22,690,688	8,120,044	30,810,732	0.28%	0.28%	0.28%	0.40%	0.40%	0.40%	0.55%	0.55%	0.55%		
2023	22,073,505	7,899,180	29,972,685	22,451,817	8,034,562	30,486,379	22,911,567	8,199,088	31,110,655	0.70%	0.70%	0.70%	0.82%	0.82%	0.82%	0.97%	0.97%	0.97%		
2024	22,318,069	7,986,700	30,304,769	22,730,202	8,134,184	30,864,386	23,233,917	8,314,443	31,548,360	1.11%	1.11%	1.11%	1.24%	1.24%	1.24%	1.41%	1.41%	1.41%		
2025	22,411,159	8,020,012	30,431,171	22,853,409	8,178,275	31,031,685	23,396,982	8,372,797	31,769,779	0.42%	0.42%	0.42%	0.54%	0.54%	0.54%	0.70%	0.70%	0.70%		
2026	22,511,878	8,056,055	30,567,933	22,984,624	8,225,232	31,209,855	23,568,772	8,434,274	32,003,045	0.45%	0.45%	0.45%	0.57%	0.57%	0.57%	0.73%	0.73%	0.73%		
2027	22,663,979	8,110,486	30,774,465	23,169,223	8,291,292	31,460,514	23,796,617	8,515,810	32,312,426	0.68%	0.68%	0.68%	0.80%	0.80%	0.80%	0.97%	0.97%	0.97%		
2028	22,768,576	8,147,917	30,916,493	23,304,464	8,340,047	31,645,511	23,975,648	8,579,877	32,555,526	0.46%	0.46%	0.46%	0.59%	0.59%	0.59%	0.75%	0.75%	0.75%		
2029	22,855,424	8,178,996	31,034,421	23,423,944	8,382,446	31,806,389	24,137,232	8,637,702	32,774,933	0.38%	0.38%	0.38%	0.51%	0.51%	0.51%	0.67%	0.67%	0.67%		
2030	22,948,840	8,212,426	31,161,267	23,549,044	8,427,214	31,976,258	24,305,683	8,697,983	33,003,666	0.41%	0.41%	0.41%	0.53%	0.53%	0.53%	0.70%	0.70%	0.70%		

Peak Day - BaseLoad												Annual Change								
Low			Medium			High			Low			Medium			High					
Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2009	21,441	288,858	310,299	21,301	283,746	305,047	21,441	288,858	310,299	-3.06%	-1.47%	-1.58%	-2.26%	0.58%	0.39%	-2.73%	-0.92%	-1.04%		
2010	20,786	284,620	305,405	20,819	285,404	306,223	20,855	286,209	307,064	-0.91%	-0.60%	-0.62%	-0.80%	-0.40%	-0.39%	-0.67%	-0.19%	-0.23%		
2011	20,595	282,920	303,516	20,652	284,254	304,906	20,715	285,657	306,372	-0.57%	0.71%	0.62%	-0.45%	0.90%	0.81%	-0.32%	1.11%	1.02%		
2012	20,479	284,918	305,397	20,559	286,817	307,376	20,649	288,837	309,486	-0.57%	0.71%	0.62%	-0.45%	0.90%	0.81%	-0.32%	1.11%	1.02%		
2013	20,473	287,763	308,236	20,577	290,240	310,817	20,695	292,890	313,585	-0.03%	1.00%	0.93%	0.09%	1.19%	1.12%	0.22%	1.40%	1.32%		
2014	20,547	290,530	311,077	20,675	293,595	314,270	20,822	296,886	317,708	0.36%	0.96%	0.92%	0.48%	1.16%	1.11%	0.61%	1.36%	1.31%		
2015	20,709	293,203	313,913	20,863	296,864	317,727	21,040	300,806	321,846	0.79%	0.92%	0.91%	0.91%	1.11%	1.10%	1.05%	1.32%	1.30%		
2016	20,872	295,862	316,735	21,052	300,128	321,179	21,261	304,726	325,987	0.79%	0.91%	0.90%	0.91%	1.10%	1.09%	1.05%	1.30%	1.29%		
2017	20,964	298,575	319,539	21,170	303,450	324,620	21,411	308,712	330,123	0.44%	0.92%	0.89%	0.56%	1.11%	1.07%	0.70%	1.31%	1.27%		
2018	21,052	301,292	322,344	21,283	306,791	328,074	21,557	312,729	334,286	0.42%	0.91%	0.88%	0.54%	1.10%	1.06%	0.68%	1.30%	1.26%		
2019	21,203	303,931	325,135	21,462	310,059	331,521	21,770	316,680	338,449	0.72%	0.88%	0.87%	0.84%	1.07%	1.05%	0.68%	1.26%	1.25%		
2020	21,350	306,561	327,911	21,637	313,323	334,956	21,979	320,631	342,576	0.69%	0.87%	0.85%	0.51%	1.04%	1.04%	0.66%	1.25%	1.23%		
2021	21,432	309,660	330,692	21,746	316,666	338,412	22,124	324,675	346,799	0.38%	0.88%	0.85%	0.51%	1.07%	1.03%	0.66%	1.26%	1.22%		
2022	21,491	311,968	333,459	21,833	320,027	341,860	22,247	328,744	350,991	0.28%	0.88%	0.84%	0.40%	1.06%	1.02%	0.55%	1.25%	1.21%		
2023	21,642	314,573	336,215	22,012	323,292	345,304	22,463	332,724	355,187	0.70%	0.84%	0.83%	0.82%	1.02%	1.01%	0.97%	1.21%	1.20%		
2024	21,881	317,079	338,960	22,285	326,460	348,746	22,779	336,610	359,390	1.11%	0.80%	0.82%	1.24%	0.98%	1.00%	1.41%	1.17%	1.18%		
2025	21,973	319,725	341,698	22,406	329,783	352,189	22,939	340,664	363,603	0.42%	0.83%	0.81%	0.54%	1.02%	0.99%	0.70%	1.20%	1.17%		
2026	22,071	322,344	344,415	22,535	333,083	355,618	23,108	344,702	367,809	0.45%	0.82%	0.80%	0.57%	1.00%	0.97%	0.73%	1.19%	1.16%		
2027	22,221	324,908	347,129	22,716	336,338	359,054	23,331	348,702	372,033	0.68%	0.80%	0.79%	0.80%	0.98%	0.97%	0.97%	1.16%	1.15%		
2028	22,323	327,499	349,822	22,849	339,623	362,472	23,507	352,737	376,243	0.46%	0.80%	0.78%	0.59%	0.98%	0.95%	0.75%	1.16%	1.13%		
2029	22,408	330,111	352,519	22,966	342,943	365,909	23,665	356,821	380,485	0.38%	0.80%	0.77%	0.51%	0.98%	0.95%	0.67%	1.16%	1.13%		
2030	22,500	332,726	355,226	23,088	346,270	369,359	23,830	360,917	384,747	0.41%	0.79%	0.77%	0.53%	0.97%	0.94%	0.70%	1.15%	1.12%		

Therm 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			
2009	13,506,516	16,188,640	29,695,156	13,231,368	16,269,064	29,500,432	13,506,516	16,188,640	29,695,156	-1.69%	-4.20%	-3.06%	0.65%	-4.63%	-2.26%	-1.15%	-4.06%	-2.73%		
2010	13,278,424	15,508,649	28,787,072	13,137,486	15,515,952	28,833,438	13,351,785	15,532,002	28,883,788	-1.21%	-0.66%	-0.91%	-0.99%	-0.64%	-0.80%	-0.73%	-0.63%	-0.67%		
2011	13,117,380	15,406,448	28,523,828	13,185,798	15,416,443	28,602,241	13,254,482	15,434,880	28,689,362	-0.26%	-0.83%	-0.57%	-0.03%	-0.81%	-0.45%	-0.25%	-0.81%	-0.32%		
2012	13,083,114	15,279,114	28,362,228	13,181,655	15,291,246	28,472,901	13,287,139	15,310,512	28,597,651	0.29%	-0.30%	-0.03%	0.52%	-0.29%	0.09%	0.81%	-0.29%	0.22%		
2013	13,121,319	15,232,973	28,354,292	13,250,814	15,246,942	28,497,755	13,395,126	15,266,123	28,661,249	0.67%	0.									

Sunnyside



Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

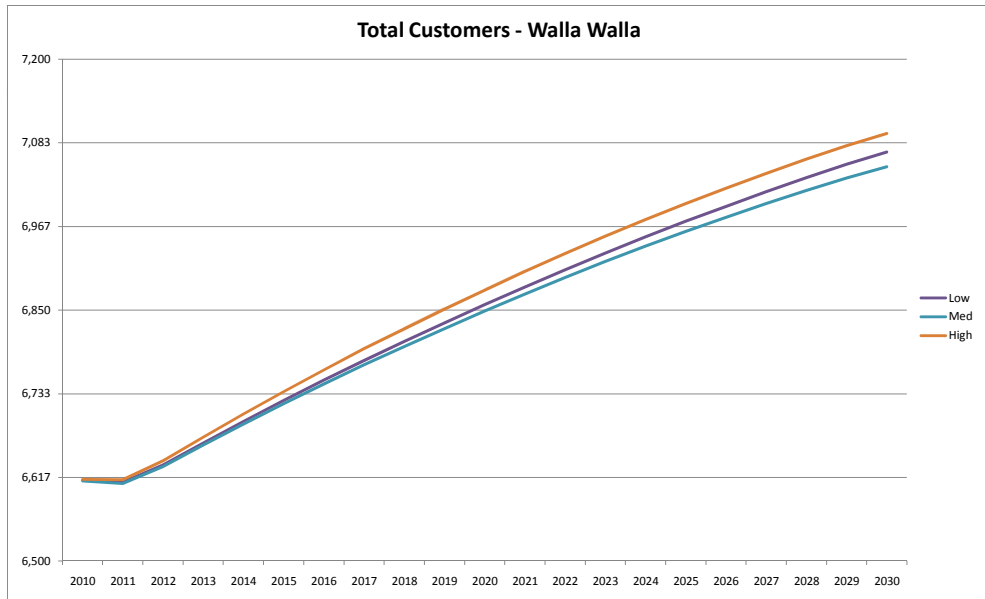
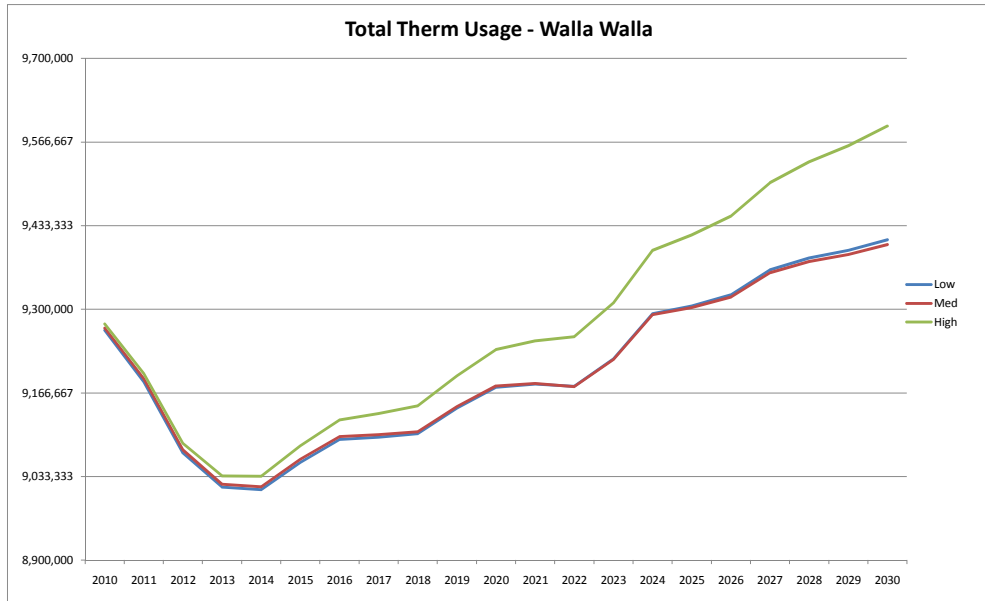
Walla Walla

	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
2009	7,234,308	2,485,700	9,720,009	7,112,974	2,444,010	9,556,984	7,234,308	2,485,700	9,720,009	-4.67%	-4.67%	-4.67%	-3.00%	-3.00%	-3.00%	-4.56%	-4.56%	-4.56%
2010	6,896,806	2,369,735	9,266,540	6,899,496	2,370,659	9,270,155	6,904,396	2,372,343	9,276,739	-0.89%	-0.89%	-0.89%	-0.87%	-0.87%	-0.87%	-0.85%	-0.85%	-0.85%
2011	6,835,669	2,348,728	9,184,397	6,839,342	2,349,990	9,189,332	6,845,619	2,352,147	9,197,766	-1.23%	-1.23%	-1.23%	-1.23%	-1.23%	-1.23%	-1.21%	-1.21%	-1.21%
2012	6,751,289	2,319,735	9,071,024	6,755,008	2,321,013	9,076,021	6,762,751	2,323,674	9,086,425	-0.60%	-0.60%	-0.60%	-0.60%	-0.60%	-0.60%	-0.57%	-0.57%	-0.57%
2013	6,710,609	2,305,758	9,016,367	6,714,209	2,306,995	9,021,204	6,724,162	2,310,415	9,034,577	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.01%	-0.01%	-0.01%
2014	6,707,509	2,304,693	9,012,202	6,711,037	2,305,905	9,016,941	6,723,776	2,310,282	9,034,058	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.16%	0.16%	0.16%
2015	6,740,050	2,315,874	9,055,924	6,743,601	2,317,094	9,060,695	6,759,546	2,322,572	9,082,118	0.06%	0.06%	0.06%	0.05%	0.05%	0.05%	0.53%	0.53%	0.53%
2016	6,767,211	2,325,206	9,092,417	6,770,556	2,326,356	9,096,912	6,790,567	2,333,231	9,123,798	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.46%	0.46%	0.46%
2017	6,769,987	2,326,160	9,096,147	6,772,857	2,327,146	9,100,002	6,797,855	2,335,736	9,133,591	0.04%	0.04%	0.04%	0.03%	0.03%	0.03%	0.11%	0.11%	0.11%
2018	6,774,216	2,327,613	9,101,828	6,776,553	2,328,416	9,104,969	6,807,087	2,338,907	9,145,994	0.06%	0.06%	0.06%	0.05%	0.05%	0.05%	0.14%	0.14%	0.14%
2019	6,804,465	2,338,007	9,142,471	6,806,440	2,338,685	9,145,126	6,842,719	2,351,151	9,193,870	0.45%	0.45%	0.45%	0.44%	0.44%	0.44%	0.52%	0.52%	0.52%
2020	6,829,273	2,346,530	9,175,803	6,830,737	2,347,034	9,177,771	6,873,800	2,361,830	9,235,630	0.36%	0.36%	0.36%	0.36%	0.36%	0.36%	0.45%	0.45%	0.45%
2021	6,832,816	2,347,748	9,180,563	6,833,541	2,347,997	9,181,538	6,884,316	2,365,443	9,249,760	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.15%	0.15%	0.15%
2022	6,830,222	2,346,857	9,177,079	6,830,115	2,346,820	9,176,935	6,889,255	2,367,140	9,256,395	-0.04%	-0.04%	-0.04%	-0.05%	-0.05%	-0.05%	0.07%	0.07%	0.07%
2023	6,862,963	2,358,117	9,221,080	6,862,384	2,357,908	9,220,292	6,929,420	2,380,341	9,310,361	0.48%	0.48%	0.48%	0.47%	0.47%	0.47%	0.58%	0.58%	0.58%
2024	6,916,479	2,376,495	9,292,974	6,915,438	2,376,137	9,291,574	6,991,807	2,402,377	9,394,184	0.78%	0.78%	0.78%	0.77%	0.77%	0.77%	0.90%	0.90%	0.90%
2025	6,925,686	2,379,658	9,305,344	6,923,833	2,379,021	9,302,854	7,010,046	2,408,644	9,418,690	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.26%	0.26%	0.26%
2026	6,938,773	2,384,155	9,322,928	6,936,140	2,383,250	9,319,390	7,032,490	2,416,356	9,448,845	0.19%	0.19%	0.19%	0.18%	0.18%	0.18%	0.32%	0.32%	0.32%
2027	6,968,375	2,394,326	9,362,701	6,965,104	2,393,202	9,358,305	7,071,768	2,429,851	9,501,619	0.43%	0.43%	0.43%	0.42%	0.42%	0.42%	0.56%	0.56%	0.56%
2028	6,982,582	2,399,207	9,381,790	6,978,518	2,397,811	9,376,329	7,096,337	2,438,294	9,534,631	0.20%	0.20%	0.20%	0.19%	0.19%	0.19%	0.35%	0.35%	0.35%
2029	6,991,594	2,402,304	9,393,898	6,986,664	2,400,610	9,387,274	7,116,019	2,445,056	9,561,075	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.28%	0.28%	0.28%
2030	7,004,104	2,406,602	9,410,707	6,998,421	2,404,650	9,403,071	7,138,935	2,452,930	9,591,865	0.18%	0.18%	0.18%	0.17%	0.17%	0.17%	0.32%	0.32%	0.32%

	Peak Day - BaseLoad									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	6,810	91,431	98,242	6,696	91,354	98,050	6,810	91,431	98,242	-4.67%	-0.20%	-0.51%	-3.00%	-0.14%	-0.34%	-4.56%	-0.19%	-0.50%
2010	6,492	91,250	97,743	6,495	91,226	97,721	6,500	91,255	97,755	-0.89%	0.01%	-0.05%	-0.87%	0.00%	-0.06%	-0.85%	0.05%	-0.01%
2011	6,435	91,259	97,694	6,438	91,227	97,665	6,444	91,300	97,744	-1.23%	0.48%	0.37%	-1.23%	0.47%	0.36%	-1.21%	0.52%	0.40%
2012	6,355	91,696	98,051	6,359	91,656	98,015	6,366	91,772	98,139	-0.60%	0.54%	0.46%	-0.60%	0.53%	0.45%	-0.57%	0.57%	0.50%
2013	6,317	92,187	98,504	6,321	92,138	98,459	6,330	92,297	98,626	-0.05%	0.48%	0.45%	-0.05%	0.47%	0.44%	-0.01%	0.51%	0.48%
2014	6,314	92,632	98,946	6,318	92,574	98,891	6,330	92,772	99,101	0.05%	0.48%	0.45%	0.05%	0.47%	0.44%	0.01%	0.51%	0.48%
2015	6,345	93,033	99,378	6,348	92,964	98,912	6,363	93,200	99,563	0.49%	0.43%	0.44%	0.49%	0.42%	0.43%	0.53%	0.46%	0.47%
2016	6,370	93,425	99,796	6,374	93,345	99,719	6,392	93,617	100,009	0.40%	0.42%	0.42%	0.40%	0.41%	0.41%	0.46%	0.45%	0.45%
2017	6,373	93,830	100,203	6,376	93,739	100,114	6,399	94,043	100,442	0.04%	0.43%	0.41%	0.03%	0.42%	0.40%	0.11%	0.46%	0.43%
2018	6,377	94,219	100,596	6,379	94,115	100,494	6,408	94,449	100,857	0.06%	0.41%	0.39%	0.05%	0.40%	0.38%	0.41%	0.43%	0.41%
2019	6,405	94,574	100,976	6,407	94,456	100,863	6,442	94,819	101,251	0.45%	0.38%	0.38%	0.44%	0.36%	0.37%	0.52%	0.39%	0.40%
2020	6,426	94,925	101,354	6,430	94,794	101,224	6,471	95,184	101,655	0.35%	0.37%	0.37%	0.35%	0.36%	0.35%	0.45%	0.38%	0.39%
2021	6,432	95,288	101,720	6,433	95,143	101,576	6,481	95,558	102,039	0.05%	0.38%	0.36%	0.04%	0.37%	0.35%	0.15%	0.39%	0.38%
2022	6,430	95,646	102,076	6,430	95,486	101,916	6,485	95,924	102,410	-0.04%	0.38%	0.35%	-0.05%	0.36%	0.34%	0.07%	0.38%	0.36%
2023	6,461	95,959	102,419	6,460	95,784	102,244	6,523	96,243	102,767	0.48%	0.33%	0.34%	0.47%	0.31%	0.32%	0.58%	0.33%	0.35%
2024	6,511	96,242	102,753	6,510	96,050	102,560	6,582	96,529	103,111	0.78%	0.29%	0.33%	0.77%	0.28%	0.31%	0.90%	0.30%	0.33%
2025	6,520	96,555	103,074	6,518	96,347	102,865	6,599	96,842	103,441	0.13%	0.33%	0.31%	0.12%	0.31%	0.30%	0.26%	0.32%	0.32%
2026	6,532	96,852	103,384	6,529	96,628	103,157	6,620	97,138	103,758	0.19%	0.31%	0.30%	0.18%	0.29%	0.28%	0.32%	0.30%	0.31%
2027	6,560	97,123	103,683	6,557	96,881	103,438	6,657	97,404	104,062	0.43%	0.28%	0.29%	0.42%	0.26%	0.27%	0.56%	0.27%	0.29%
2028	6,573	97,400	103,973	6,569	97,140	103,710	6,680	97,675	104,355	0.20%	0.29%	0.28%	0.19%	0.27%	0.26%	0.35%	0.28%	0.28%
2029	6,582	97,672	104,253	6,577	97,393	103,970	6,699	97,937	104,636	0.13%	0.28%	0.27%	0.12%	0.26%	0.25%	0.28%	0.27%	0.27%
2030	6,593	97,910	104,504	6,588	97,613	104,202	6,720	98,166	104,886	0.18%	0.24%	0.24%	0.17%	0.23%	0.22%	0.32%	0.23%	0.24%

	Therm 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
2009	3,224,004	6,496,005	9,720,009	3,221,397	6,335,587	9,556,984	3,224,004	6,496,005	9,720,009	-1.13%	-6.42%	-4.67%	-1.07%	-3.99%	-3.00%	-1.18%	-6.24%	-4.56%
2010	3,187,653	6,078,887	9,266,540	3,187,084	6,083,071	9,270,155	3,186,021	6,090,717	9,276,739	-0.60%	-1.04%	-0.89%	-0.57%	-1.03%	-0.87%	-0.46%	-1.05%	-0.85%
2011	3,168,481	6,015,916	9,184,397	3,168,776	6,020,556	9,189,332	3,171,302	6,026,644	9,197,766	-0.61%	-1.56%	-1.23%	-0.58%	-1.58%	-1.23%	-0.44%	-1.62%	-1.21%
2012	3,149,054	5,921,970	9,071,024	3,150,444	5,925,578	9,076,021	3,157,378	5,929,047	9,086,425	-0.27%	-0.78%	-0.60%	-0.23%	-0.80%	-0.60%	-0.08%	-0.83%	-0.57%
2013	3,140,502	5,875,865	9,016,367	3,143,130	5,878,074	9,021,204	3,155,002	5,879,575	9,034,577	0.15%	-0.15%	-0.05%	0.19%	-0.17%	-0.05%	0.36%	-0.20%	-0.01%
2014	3,169,170	5,886,754	9,055,924	3,174,604	5,886,091	9,060,695	3,197,629	5,884,489	9,082,118	0.77%	0.33%	0.49%	0.81%	0.31%	0.49%	0.99%	0.28%	0.53%
2015	3,201,092	5,891,325	9,092,417	3,208,082	5,888,830	9,096,912	3,237,296	5,886,502	9,123,798	1.01%	0.08%	0.40%	1.05%	0.05%	0.40%	1.24%	0.03%	0.46%
2016	3,215,950	5,880,198	9,096,147	3,224,531	5,875,471	9,100,002	3,260,065	5,873,526	9,133,591	0.46%	-0.19%	0.04%	0.51%	-0.23%	0.03%	0.70%	-0.22%	0.11%
2017	3,226,711	5,875,118	9,101,828	3,236,924	5,868,045	9,104,969	3,278,955	5,860,043	9,145,994	0.33%	-0.09%	0.06%	0.38%	-0.13%	0.05%	0.58%	-0.11%	0.14%
2018	3,249,944	5,892,528	9,142,471	3,261,881	5,883,244	9,145,126	3,310,785	5,883,085	9,193,870	0.72%	0.30%	0.45%	0.77%	0.26%	0.44%	0.97%	0.27%	0.52%
2019	3,277,321	5,898,482	9,175,803	3,291,058	5,88													

Walla Walla



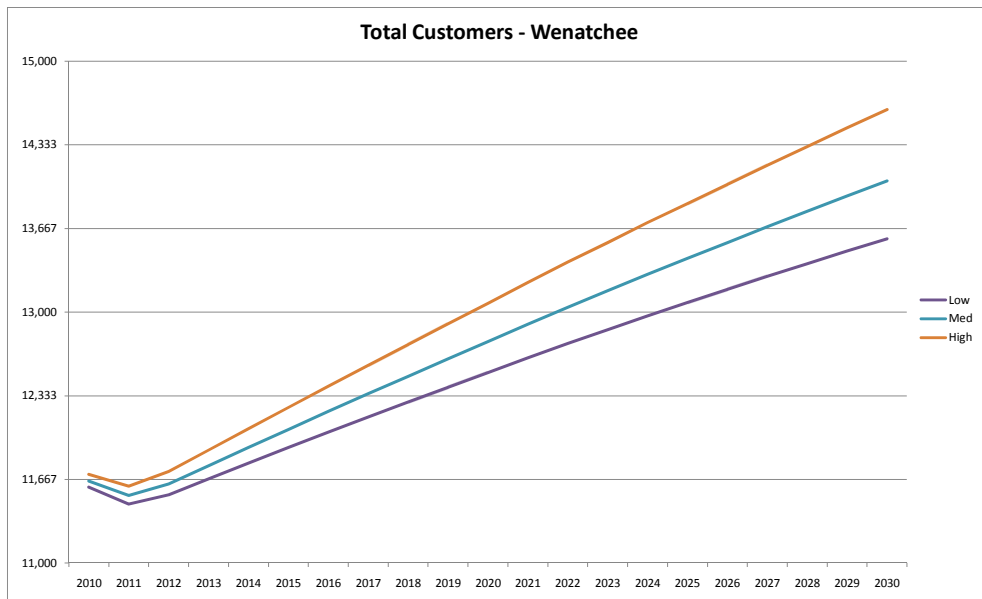
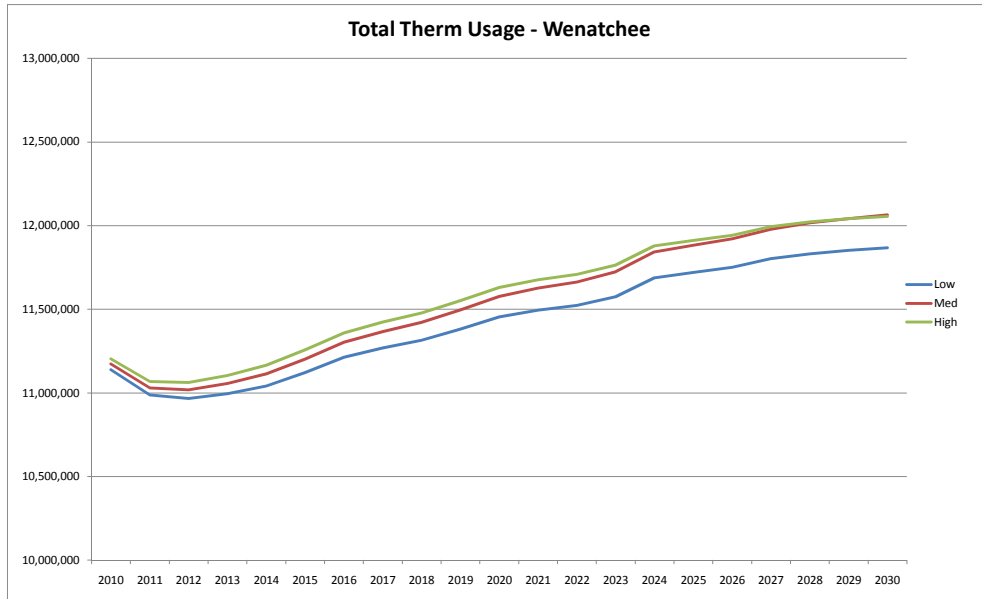
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Wenatchee																		
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
2009	8,719,435	2,924,767	11,644,202	8,599,335	2,884,481	11,483,816	8,719,435	2,924,767	11,644,202									
2010	8,341,493	2,797,993	11,139,486	8,366,817	2,806,488	11,173,305	8,389,880	2,814,224	11,204,104	-4.33%	-4.33%	-4.33%	-2.70%	-2.70%	-2.70%	-3.78%	-3.78%	-3.78%
2011	8,227,233	2,759,667	10,986,900	8,259,653	2,770,542	11,030,195	8,288,220	2,780,124	11,068,343	-1.37%	-1.37%	-1.37%	-1.28%	-1.28%	-1.28%	-1.21%	-1.21%	-1.21%
2012	8,211,709	2,754,460	10,966,168	8,251,102	2,767,673	11,018,776	8,283,972	2,778,699	11,062,670	-0.19%	-0.19%	-0.19%	-0.10%	-0.10%	-0.10%	-0.05%	-0.05%	-0.05%
2013	8,233,300	2,761,712	10,995,013	8,279,605	2,777,234	11,056,839	8,315,873	2,789,399	11,105,272	0.26%	0.26%	0.26%	0.35%	0.35%	0.35%	0.39%	0.39%	0.39%
2014	8,268,762	2,773,597	11,042,358	8,321,863	2,791,409	11,113,272	8,360,617	2,804,408	11,165,025	0.43%	0.43%	0.43%	0.51%	0.51%	0.51%	0.54%	0.54%	0.54%
2015	8,328,182	2,793,528	11,121,710	8,388,542	2,813,775	11,202,317	8,429,300	2,827,446	11,256,747	0.72%	0.72%	0.72%	0.80%	0.80%	0.80%	0.82%	0.82%	0.82%
2016	8,396,280	2,816,371	11,212,651	8,463,738	2,838,998	11,302,736	8,505,743	2,853,088	11,358,831	0.82%	0.82%	0.82%	0.90%	0.90%	0.90%	0.91%	0.91%	0.91%
2017	8,438,501	2,830,533	11,269,034	8,512,239	2,855,267	11,367,506	8,554,305	2,869,377	11,423,682	0.50%	0.50%	0.50%	0.57%	0.57%	0.57%	0.57%	0.57%	0.57%
2018	8,473,192	2,842,169	11,315,361	8,553,103	2,868,974	11,422,077	8,594,586	2,882,888	11,477,474	0.41%	0.41%	0.41%	0.48%	0.48%	0.48%	0.47%	0.47%	0.47%
2019	8,523,100	2,858,910	11,382,010	8,609,658	2,887,944	11,497,602	8,650,196	2,901,542	11,551,738	0.59%	0.59%	0.59%	0.66%	0.66%	0.66%	0.65%	0.65%	0.65%
2020	8,576,851	2,876,940	11,453,791	8,669,855	2,908,136	11,577,990	8,708,810	2,921,203	11,630,012	0.63%	0.63%	0.63%	0.70%	0.70%	0.70%	0.68%	0.68%	0.68%
2021	8,608,074	2,887,413	11,495,487	8,706,961	2,920,582	11,627,543	8,743,806	2,932,942	11,676,748	0.36%	0.36%	0.36%	0.43%	0.43%	0.43%	0.40%	0.40%	0.40%
2022	8,629,303	2,894,468	11,523,771	8,733,620	2,929,525	11,663,145	8,767,795	2,945,064	11,708,783	0.24%	0.24%	0.24%	0.31%	0.31%	0.31%	0.27%	0.27%	0.27%
2023	8,668,361	2,907,635	11,575,996	8,778,858	2,944,699	11,723,557	8,809,759	2,959,064	11,764,823	0.45%	0.45%	0.45%	0.52%	0.52%	0.52%	0.48%	0.48%	0.48%
2024	8,751,534	2,935,534	11,687,068	8,868,437	2,974,746	11,843,183	8,895,032	2,983,667	11,878,699	0.96%	0.96%	0.96%	1.02%	1.02%	1.02%	1.02%	0.97%	0.97%
2025	8,775,907	2,943,709	11,719,616	8,898,046	2,984,678	11,882,724	8,920,024	2,992,050	11,912,074	0.28%	0.28%	0.28%	0.33%	0.33%	0.33%	0.28%	0.28%	0.28%
2026	8,799,191	2,951,519	11,750,710	8,926,405	2,994,151	11,920,556	8,943,286	2,999,853	11,943,139	0.27%	0.27%	0.27%	0.32%	0.32%	0.32%	0.26%	0.26%	0.26%
2027	8,837,674	2,964,428	11,802,102	8,970,573	3,009,006	11,979,579	8,982,093	3,012,870	11,994,963	0.44%	0.44%	0.44%	0.49%	0.49%	0.49%	0.43%	0.43%	0.43%
2028	8,860,360	2,972,037	11,832,397	8,998,095	3,018,238	12,016,333	9,003,610	3,020,088	12,023,697	0.26%	0.26%	0.26%	0.31%	0.31%	0.31%	0.24%	0.24%	0.24%
2029	8,875,484	2,977,110	11,852,595	9,017,942	3,024,895	12,042,836	9,017,242	3,024,660	12,041,903	0.17%	0.17%	0.17%	0.22%	0.22%	0.22%	0.15%	0.15%	0.15%
2030	8,887,144	2,981,021	11,868,165	9,034,065	3,030,303	12,064,368	9,026,938	3,027,913	12,054,851	0.13%	0.13%	0.13%	0.18%	0.18%	0.18%	0.11%	0.11%	0.11%

Peak Day - BaseLoad									Annual Change									
	Low			Medium			High			Low			Medium			High		
	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	8,013	156,573	164,586	7,903	153,434	161,336	8,013	156,573	164,586									
2010	7,666	153,661	161,327	7,689	154,338	162,027	7,710	155,035	162,745	-4.33%	-1.86%	-1.98%	-2.70%	0.59%	0.43%	-3.78%	-0.98%	-1.12%
2011	7,561	151,914	159,474	7,591	152,824	160,414	7,617	153,833	161,450	-1.37%	-1.14%	-1.15%	-1.28%	-0.98%	-1.00%	-1.21%	-0.78%	-0.80%
2012	7,546	152,960	160,506	7,583	154,125	161,708	7,613	155,469	163,082	-0.19%	0.69%	0.65%	-0.10%	0.85%	0.81%	-0.05%	1.06%	1.01%
2013	7,566	154,695	162,261	7,609	156,122	163,731	7,642	157,809	165,451	0.26%	1.13%	1.09%	0.35%	1.30%	1.25%	0.39%	1.51%	1.45%
2014	7,599	156,394	163,993	7,648	158,083	165,730	7,683	160,116	167,800	0.43%	1.10%	1.07%	0.51%	1.26%	1.22%	0.54%	1.46%	1.42%
2015	7,654	158,070	165,724	7,709	160,030	167,739	7,746	162,418	170,165	0.72%	1.07%	1.06%	0.80%	1.23%	1.21%	0.82%	1.44%	1.41%
2016	7,716	159,724	167,440	7,778	161,956	169,735	7,817	164,703	172,520	0.82%	1.05%	1.04%	0.90%	1.20%	1.19%	0.91%	1.41%	1.38%
2017	7,755	161,357	169,112	7,823	163,859	171,682	7,861	166,915	174,822	0.50%	1.02%	1.00%	0.57%	1.17%	1.15%	0.57%	1.37%	1.33%
2018	7,787	162,978	170,765	7,860	165,755	173,615	7,898	169,216	177,114	0.41%	1.00%	0.98%	0.48%	1.16%	1.13%	0.47%	1.35%	1.31%
2019	7,833	164,579	172,412	7,912	167,638	175,550	7,949	171,466	179,415	0.59%	0.98%	0.96%	0.66%	1.14%	1.11%	0.65%	1.33%	1.30%
2020	7,882	166,161	174,043	7,967	169,504	177,472	8,003	173,701	181,704	0.63%	0.95%	0.93%	0.70%	1.11%	1.08%	0.68%	1.30%	1.28%
2021	7,911	167,751	175,662	8,002	171,383	179,384	8,035	175,552	183,987	0.36%	0.96%	0.93%	0.43%	1.11%	1.08%	0.40%	1.30%	1.26%
2022	7,930	169,325	177,255	8,026	173,249	181,276	8,058	178,194	186,251	0.24%	0.94%	0.91%	0.31%	1.09%	1.05%	0.27%	1.27%	1.23%
2023	7,966	170,828	178,794	8,068	175,039	183,107	8,096	180,352	188,448	0.45%	0.89%	0.87%	0.52%	1.03%	1.01%	0.48%	1.21%	1.18%
2024	8,043	172,262	180,305	8,150	176,760	184,910	8,174	182,147	190,616	0.96%	0.84%	0.84%	1.02%	0.98%	0.98%	0.97%	1.16%	1.15%
2025	8,065	173,727	181,792	8,177	178,519	186,696	8,197	184,570	192,768	0.28%	0.85%	0.83%	0.33%	0.99%	0.97%	0.28%	1.17%	1.13%
2026	8,086	175,161	183,247	8,203	180,244	188,447	8,219	186,664	194,883	0.27%	0.83%	0.80%	0.32%	0.97%	0.94%	0.26%	1.13%	1.10%
2027	8,122	176,580	184,702	8,244	181,964	190,208	8,254	188,760	197,015	0.44%	0.81%	0.79%	0.49%	0.95%	0.93%	0.43%	1.12%	1.09%
2028	8,143	177,965	186,108	8,269	183,645	191,914	8,274	190,810	199,084	0.26%	0.78%	0.76%	0.31%	0.92%	0.90%	0.24%	1.09%	1.05%
2029	8,156	179,344	187,500	8,287	185,325	193,613	8,287	192,863	201,149	0.17%	0.77%	0.75%	0.22%	0.91%	0.89%	0.15%	1.08%	1.04%
2030	8,167	180,687	188,854	8,302	186,972	195,274	8,296	194,882	203,178	0.13%	0.75%	0.72%	0.18%	0.89%	0.86%	0.11%	1.05%	1.01%

Therm 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
2009	7,070,173	4,574,029	11,644,202	6,915,315	4,568,501	11,483,816	7,070,173	4,574,029	11,644,202									
2010	6,722,036	4,417,450	11,139,486	6,750,958	4,422,347	11,173,305	6,774,986	4,429,118	11,204,104	-4.92%	-3.42%	-4.33%	-2.38%	-3.20%	-2.70%	-4.18%	-3.17%	-3.78%
2011	6,583,660	4,403,240	10,986,900	6,619,825	4,410,370	11,030,195	6,646,440	4,424,901	11,068,343	-2.06%	-0.32%	-1.37%	-1.94%	-0.27%	-1.28%	-1.90%	-0.16%	-1.21%
2012	6,547,443	4,418,725	10,966,168	6,590,755	4,420,020	11,018,776	6,618,079	4,441,591	11,062,670	-0.55%	0.35%	-0.19%	-0.44%	0.40%	-1.00%	-0.43%	0.51%	-0.05%
2013	6,553,160	4,441,882	10,995,043	6,603,234	4,453,605	11,056,839	6,629,672	4,475,600	11,105,272	0.09%	0.52%	0.26%	0.19%	0.58%	0.35%	0.18%	0.70%	0.39%
2014	6,577,909	4,464,449	11,042,358	6,634,353	4,478,919	11,113,272	6,658,336	4,505,689	11,165,025	0.38%	0.51%	0.43%	0.47%	0.57%	0.51%	0.43%	0.69%	0.54%
2015	6,634,861	4,486,824	11,121,710	6,697,850	4,504,466	11,202,317	6,718,345	4,538,402	11,256,747	0.87%	0.50%	0.72%	0.96%	0.57%	0.80%	0.90%	0.70%	0.82%
2016	6,703,291	4,509,360	11,212,651	6,772,666	4,530,070	11,302,736	6,788,589	4,570,241	11,358,831	1.03%	0.50%	0.82%	1.12%	0.57%	0.90%	1.05%	0.70%	0.91%
2017	6,737,531	4,531,503	11,269,034	6,812,386	4,555,120	11,367,506	6,822,174	4,601,508	11,423,682	0.51%	0.49%	0.50%	0.59%	0.55%	0.57%	0.49%	0.68%	0.57%
2018	6,762,013	4,553,348	11,315,361	6,842,066	4,580,011	11,422,077	6,844,673	4,632,081	11,477,474	0.36%	0.48%	0.41%	0.44%	0.55%	0.48%	0.33%	0.68%	0.47%
2019	6,806,767	4,575,243	11,382,010	6,892,205	4,605,396	11,497,602	6,886,											

Wenatchee



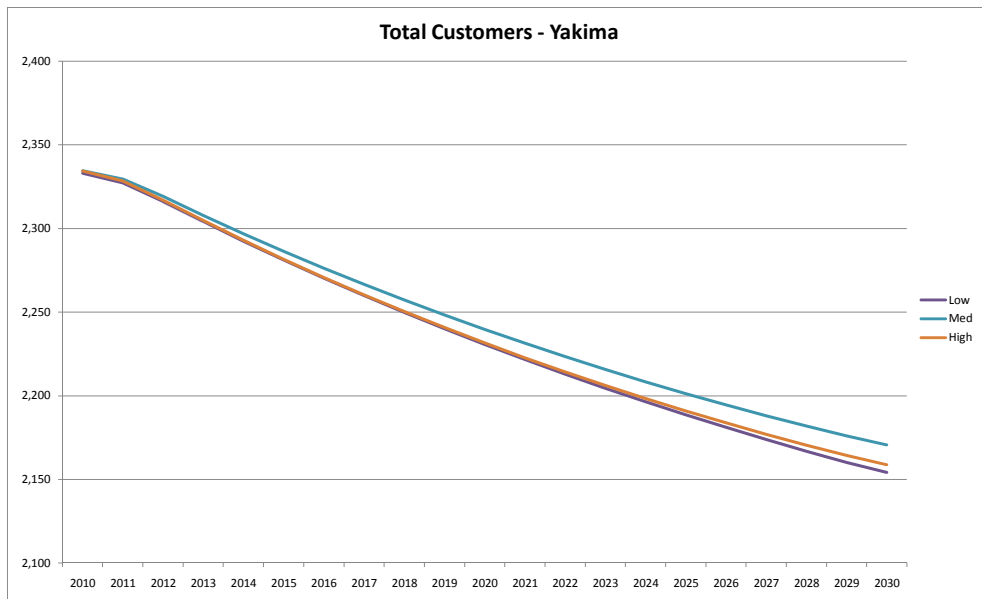
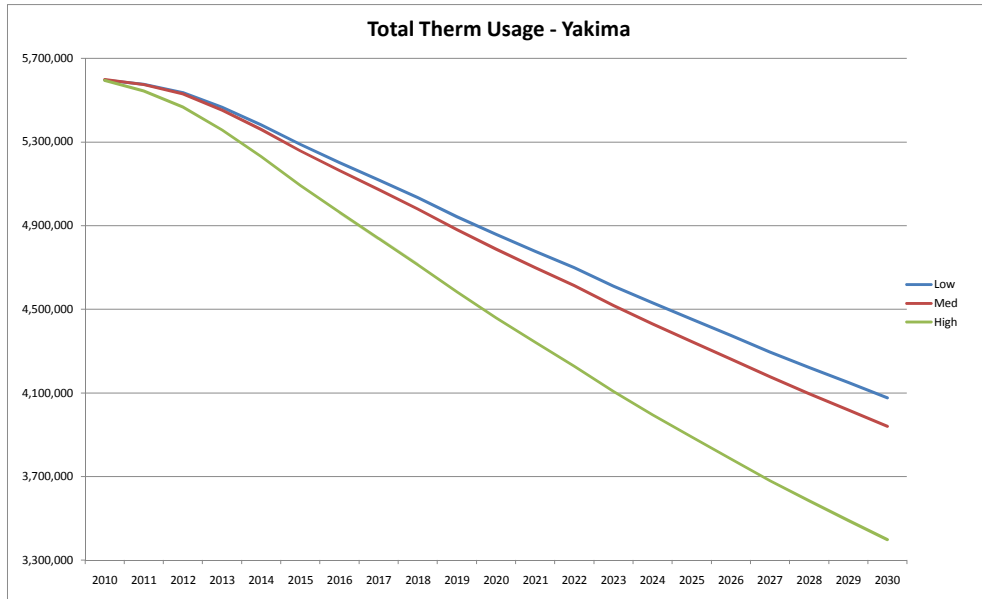
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Yakima																		
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
2009	3,747,254	1,815,373	5,562,626	3,733,135	1,808,533	5,541,668	3,747,254	1,815,373	5,562,626	0.59%	0.59%	0.59%	1.03%	1.03%	1.03%	0.57%	0.57%	0.57%
2010	3,769,431	1,826,117	5,595,548	3,771,764	1,827,247	5,599,011	3,768,660	1,825,743	5,594,403	-0.35%	-0.35%	-0.35%	-0.43%	-0.43%	-0.43%	-0.89%	-0.89%	-0.89%
2011	3,756,156	1,819,685	5,575,841	3,755,448	1,819,343	5,574,790	3,734,976	1,809,425	5,544,401	-0.70%	-0.70%	-0.70%	-0.81%	-0.81%	-0.81%	-1.37%	-1.37%	-1.37%
2012	3,729,885	1,806,959	5,536,844	3,725,075	1,804,628	5,529,703	3,683,730	1,784,598	5,468,328	-1.27%	-1.27%	-1.27%	-1.41%	-1.41%	-1.41%	-2.04%	-2.04%	-2.04%
2013	3,682,340	1,783,925	5,466,266	3,672,717	1,779,263	5,451,980	3,608,635	1,748,218	5,356,853	-1.74%	-1.74%	-1.74%	-1.90%	-1.90%	-1.90%	-2.61%	-2.61%	-2.61%
2014	3,625,369	1,756,825	5,382,194	3,610,601	1,749,171	5,359,771	3,523,125	1,706,793	5,229,918	-1.55%	-1.55%	-1.55%	-1.69%	-1.69%	-1.69%	-2.37%	-2.37%	-2.37%
2015	3,562,144	1,725,695	5,287,839	3,542,011	1,715,942	5,257,953	3,431,143	1,662,232	5,093,375	-1.74%	-1.74%	-1.74%	-1.90%	-1.90%	-1.90%	-2.61%	-2.61%	-2.61%
2016	3,503,773	1,697,417	5,201,190	3,478,177	1,685,018	5,163,195	3,344,030	1,620,030	4,964,060	-1.64%	-1.64%	-1.64%	-1.80%	-1.80%	-1.80%	-2.54%	-2.54%	-2.54%
2017	3,448,297	1,670,542	5,118,839	3,417,162	1,655,459	5,072,621	3,260,001	1,579,321	4,839,322	-1.58%	-1.58%	-1.58%	-1.75%	-1.75%	-1.75%	-2.51%	-2.51%	-2.51%
2018	3,391,308	1,642,933	5,034,241	3,354,646	1,625,172	4,979,818	3,175,121	1,538,201	4,713,322	-1.65%	-1.65%	-1.65%	-1.83%	-1.83%	-1.83%	-2.60%	-2.60%	-2.60%
2019	3,329,966	1,613,216	4,943,182	3,287,871	1,592,823	4,880,694	3,087,065	1,495,542	4,582,607	-1.81%	-1.81%	-1.81%	-1.99%	-1.99%	-1.99%	-2.77%	-2.77%	-2.77%
2020	3,272,858	1,585,550	4,858,408	3,225,427	1,562,572	4,787,999	3,004,148	1,455,372	4,459,521	-1.71%	-1.71%	-1.71%	-1.90%	-1.90%	-1.90%	-2.69%	-2.69%	-2.69%
2021	3,218,759	1,559,341	4,778,100	3,166,109	1,533,835	4,699,944	2,925,235	1,417,142	4,342,377	-1.65%	-1.65%	-1.65%	-1.84%	-1.84%	-1.84%	-2.63%	-2.63%	-2.63%
2022	3,165,728	1,533,650	4,699,379	3,108,014	1,505,900	4,613,704	2,848,545	1,379,900	4,228,535	-1.65%	-1.65%	-1.65%	-1.83%	-1.83%	-1.83%	-2.62%	-2.62%	-2.62%
2023	3,105,909	1,504,671	4,610,579	3,043,310	1,474,344	4,517,654	2,766,713	1,340,346	4,107,059	-1.89%	-1.89%	-1.89%	-2.08%	-2.08%	-2.08%	-2.87%	-2.87%	-2.87%
2024	3,051,890	1,478,501	4,530,391	2,984,609	1,445,907	4,430,516	2,691,946	1,304,125	3,995,071	-1.74%	-1.74%	-1.74%	-1.93%	-1.93%	-1.93%	-2.70%	-2.70%	-2.70%
2025	2,999,785	1,453,259	4,453,044	2,927,962	1,418,463	4,346,425	2,620,116	1,269,326	3,889,442	-1.71%	-1.71%	-1.71%	-1.90%	-1.90%	-1.90%	-2.67%	-2.67%	-2.67%
2026	2,947,342	1,427,852	4,375,194	2,871,179	1,390,955	4,262,134	2,549,339	1,235,038	3,784,377	-1.75%	-1.75%	-1.75%	-1.94%	-1.94%	-1.94%	-2.70%	-2.70%	-2.70%
2027	2,894,024	1,402,022	4,296,047	2,813,765	1,363,140	4,176,905	2,479,300	1,201,107	3,680,407	-1.81%	-1.81%	-1.81%	-2.00%	-2.00%	-2.00%	-2.75%	-2.75%	-2.75%
2028	2,844,013	1,377,794	4,221,807	2,759,885	1,337,038	4,096,923	2,413,802	1,169,377	3,583,179	-1.73%	-1.73%	-1.73%	-1.91%	-1.91%	-1.91%	-2.64%	-2.64%	-2.64%
2029	2,795,212	1,354,152	4,149,364	2,707,429	1,311,625	4,019,055	2,350,853	1,138,881	3,489,734	-1.72%	-1.72%	-1.72%	-1.90%	-1.90%	-1.90%	-2.61%	-2.61%	-2.61%
2030	2,746,074	1,330,347	4,076,422	2,654,841	1,286,149	3,940,990	2,288,924	1,108,879	3,397,803	-1.76%	-1.76%	-1.76%	-1.94%	-1.94%	-1.94%	-2.63%	-2.63%	-2.63%

Peak Day - Baseload												Annual Change						
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	4,974	55,853	60,826	4,955	55,769	60,724	4,974	55,853	60,826	0.59%	0.08%	0.12%	1.03%	0.30%	0.36%	0.57%	0.15%	0.18%
2010	5,003	55,898	60,901	5,006	55,937	60,943	5,002	55,935	60,937	-0.35%	-0.23%	-0.24%	-0.43%	-0.19%	-0.21%	-0.89%	-0.20%	-0.26%
2011	4,985	55,767	60,753	4,985	55,830	60,814	4,957	55,824	60,781	-0.70%	-0.46%	-0.48%	-0.81%	-0.41%	-0.44%	-1.37%	-0.41%	-0.49%
2012	4,951	55,513	60,463	4,944	55,599	60,544	4,889	55,596	60,485	-1.27%	-0.46%	-0.52%	-1.41%	-0.41%	-0.49%	-2.04%	-0.40%	-0.53%
2013	4,887	55,259	60,146	4,875	55,370	60,245	4,790	55,373	60,163	-1.55%	-0.41%	-0.50%	-1.69%	-0.36%	-0.47%	-2.37%	-0.35%	-0.51%
2014	4,812	55,031	59,843	4,792	55,169	59,961	4,676	55,180	59,856	-1.74%	-0.41%	-0.50%	-1.90%	-0.34%	-0.46%	-2.61%	-0.32%	-0.50%
2015	4,728	54,820	59,548	4,701	54,983	59,685	4,554	55,005	59,559	-1.64%	-0.37%	-0.47%	-1.80%	-0.33%	-0.44%	-2.54%	-0.30%	-0.48%
2016	4,650	54,614	59,265	4,616	54,804	59,421	4,438	54,837	59,276	-1.58%	-0.36%	-0.46%	-1.75%	-0.31%	-0.43%	-2.51%	-0.29%	-0.46%
2017	4,577	54,416	58,993	4,536	54,633	59,168	4,327	54,398	59,005	-1.65%	-0.34%	-0.44%	-1.83%	-0.29%	-0.41%	-2.60%	-0.27%	-0.44%
2018	4,501	54,230	58,732	4,453	54,474	58,926	4,214	54,532	58,746	-1.65%	-0.32%	-0.42%	-1.83%	-0.27%	-0.40%	-2.60%	-0.27%	-0.43%
2019	4,420	54,058	58,478	4,364	54,328	58,692	4,097	54,398	58,495	-1.71%	-0.32%	-0.43%	-1.99%	-0.27%	-0.39%	-2.77%	-0.26%	-0.43%
2020	4,344	53,889	58,233	4,281	54,185	58,466	3,987	54,268	58,255	-1.71%	-0.31%	-0.42%	-1.90%	-0.26%	-0.38%	-2.69%	-0.24%	-0.41%
2021	4,272	53,724	57,996	4,202	54,046	58,248	3,883	54,141	58,023	-1.65%	-0.31%	-0.41%	-1.84%	-0.26%	-0.37%	-2.63%	-0.23%	-0.40%
2022	4,202	53,567	57,768	4,125	53,916	58,041	3,781	54,022	57,803	-1.65%	-0.29%	-0.39%	-1.83%	-0.24%	-0.36%	-2.62%	-0.22%	-0.38%
2023	4,122	53,426	57,548	4,039	53,801	57,840	3,672	53,918	57,590	-1.89%	-0.26%	-0.38%	-2.08%	-0.21%	-0.35%	-2.87%	-0.19%	-0.37%
2024	4,051	53,285	57,335	3,961	53,686	57,647	3,573	53,813	57,386	-1.74%	-0.26%	-0.37%	-1.93%	-0.21%	-0.33%	-2.70%	-0.19%	-0.35%
2025	3,982	53,150	57,131	3,886	53,576	57,463	3,478	53,714	57,192	-1.71%	-0.25%	-0.36%	-1.90%	-0.20%	-0.32%	-2.67%	-0.18%	-0.34%
2026	3,912	53,024	56,936	3,811	53,477	57,287	3,384	53,624	57,008	-1.75%	-0.24%	-0.34%	-1.94%	-0.19%	-0.30%	-2.70%	-0.17%	-0.32%
2027	3,841	52,905	56,746	3,735	53,383	57,117	3,291	53,538	56,829	-1.81%	-0.22%	-0.33%	-2.00%	-0.18%	-0.30%	-2.75%	-0.16%	-0.31%
2028	3,775	52,790	56,565	3,663	53,293	56,956	3,204	53,456	56,660	-1.73%	-0.22%	-0.32%	-1.91%	-0.17%	-0.28%	-2.64%	-0.15%	-0.30%
2029	3,710	52,680	56,390	3,593	53,207	56,801	3,120	53,378	56,498	-1.72%	-0.21%	-0.31%	-1.90%	-0.16%	-0.27%	-2.61%	-0.15%	-0.29%
2030	3,645	52,586	56,231	3,524	53,138	56,662	3,038	53,315	56,353	-1.76%	-0.21%	-0.31%	-1.94%	-0.16%	-0.27%	-2.63%	-0.15%	-0.29%

Therm 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
2009	794,386	4,768,240	5,562,626	794,386	4,747,282	5,541,668	794,386	4,768,240	5,562,626	-2.70%	1.14%	0.59%	-2.63%	1.65%	1.03%	-2.64%	1.11%	0.57%
2010	772,974	4,822,574	5,595,548	773,491	4,825,519	5,599,011	773,384	4,821,574	5,594,403	-0.67%	-0.30%	-0.35%	-0.64%	-0.40%	-0.43%	-0.68%	-0.93%	-0.89%
2011	767,815	4,808,026	5,575,841	768,551	4,806,240	5,574,790	768,097	4,776,304	5,544,401	-1.14%	-0.63%	-0.70%	-1.11%	-0.76%	-0.81%	-1.16%	-1.41%	-1.37%
2012	759,039	4,777,805	5,536,844	759,990	4,769,713	5,529,703	759,208	4,709,120	5,468,328	-1.06%	-1.31%	-1.27%	-1.03%	-1.47%	-1.41%	-1.07%	-2.19%	-2.04%
2013	751,003	4,715,263	5,466,266	752,164	4,699,815	5,451,980	751,072	4,605,781	5,356,853	-1.06%	-1.31%	-1.27%	-1.03%	-1.47%	-1.41%	-1.07%	-2.19%	-2.04%
2014	744,968	4,636,727	5,381,695	746,350	4,613,421	5,359,771	744,971	4,484,947	5,229,918	-0.80%	-1.67%	-1.55%	-1.77%	-1.84%	-1.69%	-0.81%	-2.62%	-2.37%
2015	741,710	4,546,129	5,287,839	743,311	4,514,642	5,257,953	741,652	4,351,723	5,093,375	-0.44%	-1.95%	-1.74%	-0.41%	-2.14%	-1.90%	-0.45%	-2.97%	-2.61%
2016	739,628	4,461,562	5,201,190	741,457	4,421,738	5,163,195	739,535	4,224,525	4,964,060	-0.28%	-1.86%	-1.64%	-0.25%	-2.06%	-1.80%	-0.29%	-2.92%	-2.54%
2017	735,359	4,383,481	5,118,839	737,410	4,335,211	5,072,621	735,247	4,104,075	4,839,322	-0.58%	-1.75%	-1.58%	-0.55%	-1.96%	-1.75%	-0.58%	-2.85%	-2.51%
2018	730,696	4,303,546	5,034,241	732,970	4,246,848	4,979,818	730,586	3,982,737	4,713,322	-0.63%	-1.82%	-1.65%	-0.60%	-2.04%	-1.83%	-0.63%	-2.96%	-2.60%
2019	725,771	4,215,411	4,943,182	730,272	4,150,422	4,880,694	727,670	3,854,937	4,582,607	-0.40%	-2.05%	-1.81%	-0.37%	-2.27%	-1.99%	-0.40%	-3	

Yakima



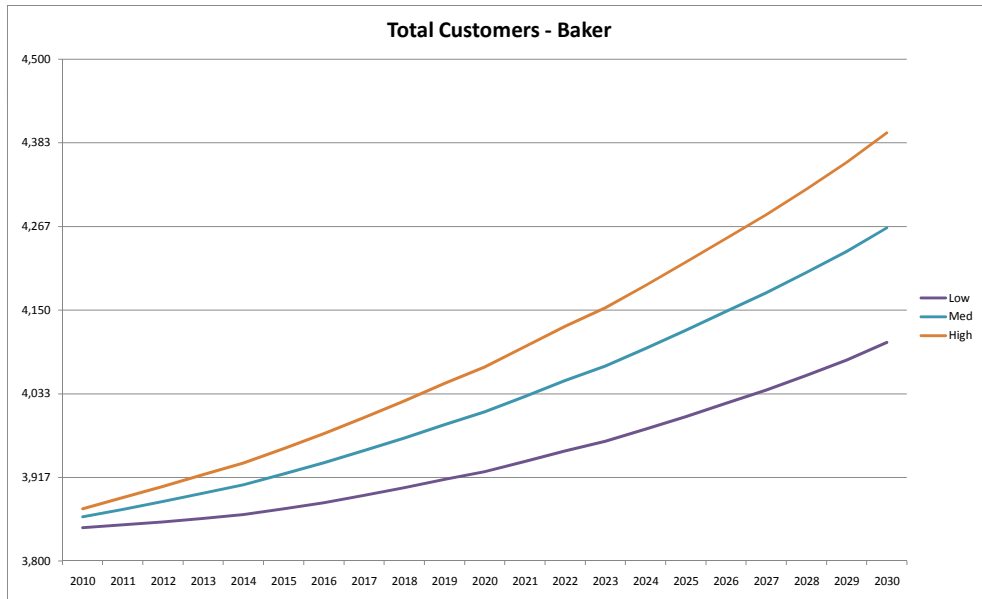
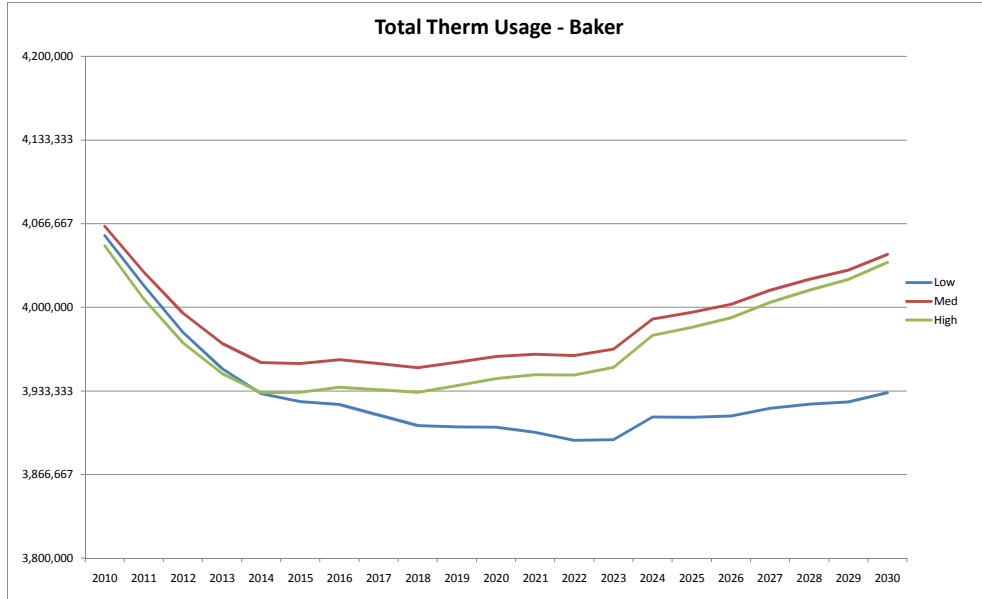
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Baker	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			
2009	2,864,856	1,217,641	4,082,497	2,864,856	1,217,640	4,082,494	2,864,856	1,217,641	4,082,497	-0.62%	-0.62%	-0.62%	-0.44%	-0.44%	-0.44%	-0.82%	-0.82%	-0.82%			
2010	2,847,181	1,210,128	4,057,309	2,852,302	1,212,305	4,064,606	2,841,440	1,207,688	4,049,129	-0.98%	-0.98%	-0.98%	-0.89%	-0.89%	-0.89%	-1.05%	-1.05%	-1.05%			
2011	2,819,045	1,198,236	4,017,281	2,826,790	1,201,461	4,028,251	2,811,682	1,195,040	4,006,723	-0.93%	-0.93%	-0.93%	-0.82%	-0.82%	-0.82%	-0.87%	-0.87%	-0.87%			
2012	2,793,045	1,187,119	3,980,164	2,803,377	1,191,663	3,995,040	2,787,117	1,184,599	3,971,716	-0.93%	-0.93%	-0.93%	-0.73%	-0.73%	-0.73%	-0.62%	-0.62%	-0.62%			
2013	2,772,675	1,178,461	3,951,135	2,786,765	1,184,450	3,971,215	2,769,949	1,177,302	3,947,251	-0.51%	-0.51%	-0.51%	-0.39%	-0.39%	-0.39%	-0.39%	-0.39%	-0.39%			
2014	2,758,600	1,172,482	3,931,082	2,775,984	1,179,877	3,955,861	2,759,209	1,172,738	3,931,946	-0.16%	-0.16%	-0.16%	-0.02%	-0.02%	-0.02%	0.01%	0.01%	0.01%			
2015	2,754,138	1,170,582	3,924,721	2,775,431	1,179,633	3,955,064	2,759,431	1,172,832	3,932,263	-0.06%	-0.06%	-0.06%	0.08%	0.08%	0.08%	0.10%	0.10%	0.10%			
2016	2,752,553	1,169,909	3,922,462	2,777,573	1,180,543	3,958,116	2,762,243	1,174,027	3,936,270	-0.21%	-0.21%	-0.21%	-0.08%	-0.08%	-0.08%	-0.05%	-0.05%	-0.05%			
2017	2,746,689	1,167,416	3,914,105	2,775,454	1,179,642	3,955,097	2,760,870	1,173,444	3,934,313	-0.22%	-0.22%	-0.22%	-0.08%	-0.08%	-0.08%	-0.05%	-0.05%	-0.05%			
2018	2,740,740	1,164,888	3,905,628	2,773,242	1,178,702	3,951,944	2,759,438	1,172,835	3,932,273	-0.03%	-0.03%	-0.03%	0.11%	0.11%	0.11%	0.14%	0.14%	0.14%			
2019	2,740,009	1,164,577	3,904,586	2,776,252	1,179,982	3,956,234	2,763,228	1,174,446	3,937,674	-0.01%	-0.01%	-0.01%	0.12%	0.12%	0.12%	0.14%	0.14%	0.14%			
2020	2,739,839	1,164,500	3,904,344	2,779,532	1,181,376	3,960,908	2,767,059	1,176,074	3,943,133	-0.10%	-0.10%	-0.10%	0.04%	0.04%	0.04%	0.08%	0.08%	0.08%			
2021	2,737,000	1,163,298	3,900,298	2,780,665	1,181,857	3,962,522	2,769,169	1,176,971	3,946,140	-0.16%	-0.16%	-0.16%	-0.03%	-0.03%	-0.03%	0.00%	0.00%	0.00%			
2022	2,732,558	1,161,411	3,893,969	2,789,904	1,181,534	3,961,438	2,769,139	1,176,958	3,946,097	-0.16%	-0.16%	-0.16%	-0.03%	-0.03%	-0.03%	0.00%	0.00%	0.00%			
2023	2,732,953	1,161,578	3,894,531	2,793,648	1,183,125	3,966,773	2,773,329	1,178,739	3,952,069	0.01%	0.01%	0.01%	0.13%	0.13%	0.13%	0.15%	0.15%	0.15%			
2024	2,745,553	1,166,934	3,912,487	2,800,438	1,190,261	3,990,699	2,791,230	1,186,347	3,977,577	0.46%	0.46%	0.46%	0.60%	0.60%	0.60%	0.65%	0.65%	0.65%			
2025	2,745,478	1,166,802	3,912,280	2,804,132	1,191,831	3,995,963	2,795,730	1,188,260	3,983,991	0.00%	0.00%	0.00%	0.13%	0.13%	0.13%	0.16%	0.16%	0.16%			
2026	2,746,204	1,167,210	3,913,414	2,808,637	1,193,746	4,002,383	2,801,056	1,190,524	3,991,580	0.03%	0.03%	0.03%	0.16%	0.16%	0.16%	0.19%	0.19%	0.19%			
2027	2,750,516	1,169,043	3,919,559	2,816,556	1,197,112	4,013,667	2,809,670	1,194,185	4,003,854	0.16%	0.16%	0.16%	0.28%	0.28%	0.28%	0.31%	0.31%	0.31%			
2028	2,752,722	1,169,981	3,922,703	2,822,519	1,199,646	4,022,166	2,816,497	1,197,087	4,013,583	0.08%	0.08%	0.08%	0.21%	0.21%	0.21%	0.24%	0.24%	0.24%			
2029	2,754,109	1,170,570	3,924,679	2,827,703	1,201,849	4,029,552	2,822,606	1,199,683	4,022,289	0.05%	0.05%	0.05%	0.18%	0.18%	0.18%	0.22%	0.22%	0.22%			
2030	2,759,226	1,172,745	3,931,971	2,836,518	1,205,596	4,042,115	2,832,103	1,203,720	4,035,823	0.19%	0.19%	0.19%	0.31%	0.31%	0.31%	0.34%	0.34%	0.34%			

Baker	Peak Day - Baseload												Annual Change								
	Low			Medium			High			Low			Medium			High					
	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total			
2009	3,336	22,634	25,970	3,336	22,634	25,970	3,336	22,634	25,970	-0.62%	0.95%	0.75%	-0.44%	1.37%	1.14%	-0.82%	1.78%	1.44%			
2010	3,315	22,850	26,165	3,321	22,945	26,266	3,309	23,036	26,345	-0.98%	0.25%	0.09%	-0.89%	0.44%	0.27%	-1.05%	0.60%	0.39%			
2011	3,283	22,907	26,190	3,292	23,046	26,338	3,274	23,174	26,448	-0.93%	0.26%	0.11%	-0.82%	0.45%	0.29%	-0.87%	0.59%	0.41%			
2012	3,252	22,968	26,220	3,265	23,149	26,414	3,245	23,311	26,556	-0.73%	0.25%	0.13%	-0.61%	0.43%	0.30%	-0.62%	0.56%	0.42%			
2013	3,229	23,025	26,254	3,245	23,248	26,493	3,225	23,442	26,667	-0.51%	0.23%	0.14%	-0.39%	0.40%	0.30%	-0.39%	0.53%	0.42%			
2014	3,212	23,078	26,290	3,233	23,340	26,572	3,213	23,565	26,778	-0.16%	0.25%	0.20%	-0.02%	0.44%	0.38%	0.01%	0.58%	0.51%			
2015	3,205	23,197	26,403	3,234	23,545	26,779	3,217	23,840	27,057	-0.06%	0.27%	0.23%	0.08%	0.44%	0.40%	0.10%	0.58%	0.53%			
2016	3,198	23,272	26,470	3,232	23,663	26,894	3,215	23,994	27,209	-0.21%	0.32%	0.26%	-0.08%	0.50%	0.43%	-0.05%	0.64%	0.56%			
2017	3,191	23,351	26,542	3,229	23,786	27,015	3,213	24,154	27,367	-0.22%	0.34%	0.27%	-0.08%	0.52%	0.45%	-0.05%	0.67%	0.58%			
2018	3,191	23,431	26,622	3,233	23,910	27,142	3,218	24,316	27,534	-0.03%	0.34%	0.30%	0.11%	0.52%	0.47%	0.14%	0.67%	0.61%			
2019	3,190	23,506	26,696	3,237	24,025	27,262	3,222	24,468	27,690	-0.01%	0.32%	0.28%	0.02%	0.46%	0.44%	0.14%	0.62%	0.57%			
2020	3,187	23,604	26,792	3,238	24,171	27,406	3,225	24,655	27,879	0.01%	0.42%	0.36%	0.04%	0.61%	0.54%	0.08%	0.76%	0.68%			
2021	3,182	23,711	26,893	3,237	24,323	27,560	3,225	24,850	28,074	-0.16%	0.45%	0.38%	-0.03%	0.63%	0.55%	0.00%	0.79%	0.70%			
2022	3,182	23,802	26,984	3,241	24,456	27,697	3,229	25,022	28,251	0.01%	0.38%	0.34%	0.13%	0.55%	0.50%	0.15%	0.69%	0.63%			
2023	3,197	23,901	27,098	3,261	24,602	27,863	3,250	25,213	28,463	0.46%	0.42%	0.42%	0.60%	0.60%	0.60%	0.65%	0.76%	0.75%			
2024	3,197	24,022	27,219	3,265	24,771	28,037	3,256	25,428	28,683	0.00%	0.51%	0.45%	0.13%	0.69%	0.62%	0.16%	0.85%	0.77%			
2025	3,198	24,147	27,345	3,271	24,945	28,215	3,262	25,648	28,910	0.03%	0.52%	0.46%	0.16%	0.70%	0.64%	0.19%	0.87%	0.79%			
2026	3,203	24,267	27,470	3,280	25,112	28,391	3,272	25,862	29,134	0.16%	0.50%	0.46%	0.28%	0.67%	0.62%	0.31%	0.83%	0.77%			
2027	3,205	24,403	27,608	3,287	25,297	28,583	3,280	26,097	29,377	0.08%	0.56%	0.50%	0.21%	0.74%	0.68%	0.24%	0.91%	0.83%			
2028	3,207	24,547	27,754	3,293	25,492	28,785	3,287	26,344	29,631	0.05%	0.59%	0.53%	0.18%	0.77%	0.70%	0.22%	0.95%	0.87%			
2029	3,213	24,710	27,923	3,303	25,706	29,009	3,298	26,612	29,910	0.19%	0.66%	0.61%	0.31%	0.84%	0.78%	0.34%	1.02%	0.94%			

Baker	Therm 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			
2009	2,243,586	1,838,911	4,082,497	2,243,586	1,838,908	4,082,494	2,243,586	1,838,911	4,082,497	0.92%	-2.49%	-0.62%	1.31%	-2.57%	-0.44%	1.60%	-3.77%	-0.82%			
2010	2,264,152	1,793,156	4,057,309	2,272,912	1,791,695	4,064,606	2,259,591	1,769,537	4,049,129	-0.02%	-2.20%	-0.98%	0.16%	-2.23%	-0.89%	0.27%	-2.74%	-1.05%			
2011	2,263,705	1,753,734	4,017,439	2,276,463	1,751,789	4,028,251	2,285,748	1,720,974	4,006,723	-0.46%	-1.53%	-0.93%	-0.29%	-1.50%	-0.82%	-0.18%	-1.80%	-0.87%			
2012	2,253,276	1,726,888	3,980,164	2,269,891	1,725,500	3,995,400	2,281,728	1,689,988	3,971,716	-0.36%	-1.21%	-0.73%	-0.19%	-1.15%	-0.61%	-0.08%	-1.34%	-0.62%			
2013	2,245,080	1,706,055	3,951,135	2,265,473	1,705,742	3,971,215	2,279,848	1,667,404	3,947,251	-0.36%	-1.21%	-0.73%	-0.19%	-1.15%	-0.61%	-0.08%	-1.34%	-0.62%			
2014	2,242,645	1,688,443	3,931,082	2,266,676	1,689,175	3,955,851	2,283,563	1,648,383	3,931,946	-0.11%	-1.03%	-0.51%	0.05%	-0.97%	-0.39%	-0.16%	-1.14%	-0.39%			
2015	2,249,818	1,674,903	3,924,721	2,277,979	1,677,085	3,955,064	2,297,800	1,634,463	3,932,263	0.32%	-0.80%	-0.16%	0.50%	-0.72%	-0.28%	0.62%	-0.84%	0.01%			
2016	2,260,917	1,661,545	3,922,462	2,293,142	1,664,975	3,958,116	2,315,972	1,626,555	3,936,270	0.49%	-0.80%	-0.06%	0.67%	-0.72%	-0.08%	0.79%	-0.87%	0.10%			
2017	2,265,340	1,648,765	3,914,105	2,301,631	1,653,466	3,955,097	2,327,541	1,606,772	3,934,313	0.20%	-0.77%	-0.21%	0.37%	-0.69%	-0.08%	0.50%	-0.83%	-0.05%			
2018	2,268,458	1,637,170	3,905,628	2,308,810	1,643,135	3,951,944	2,337,855	1,594,418	3,932,273	0.14%	-0.70%	-0.22%	0.31%	-0.62%	-0.08%	0.44%	-0.77%	-0.05%			
2019	2,277,503	1,627,083	3,904,586	2,322,006	1,634,228	3,956,234	2,354,530	1,583,344	3,937,674	0.40%	-0.62%	-0.03%	0.57%	-0.54%	0.11%	0.71%	-0.70%	0.14			

Baker



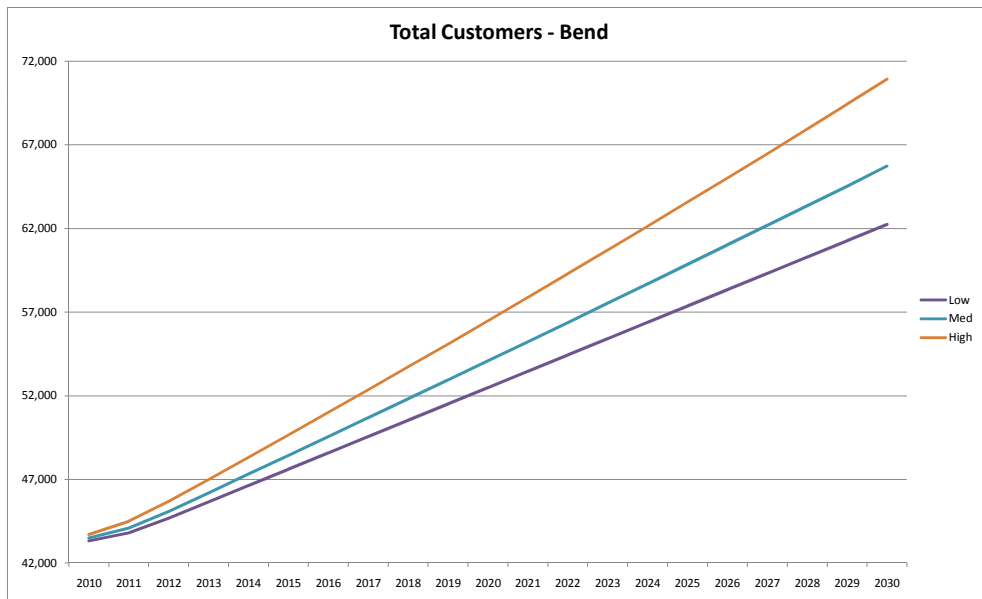
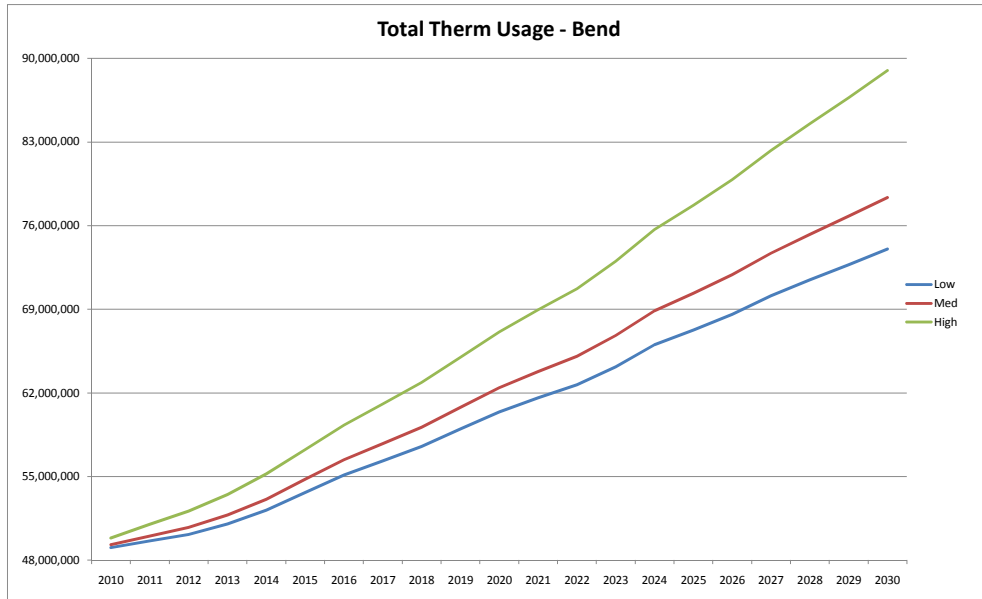
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Bend																		
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
2009	34,096,509	15,143,074	49,239,583	34,096,499	15,143,069	49,239,569	34,096,509	15,143,074	49,239,583									
2010	33,973,910	15,088,625	49,062,535	34,139,844	15,162,319	49,302,163	34,519,007	15,330,715	49,849,722	-0.36%	-0.36%	-0.36%	0.13%	0.13%	0.13%	1.24%	1.24%	1.24%
2011	34,350,167	15,257,729	49,605,896	34,641,115	15,384,946	50,026,061	35,320,385	15,686,626	51,007,011	1.11%	1.11%	1.11%	1.47%	1.47%	1.47%	2.32%	2.32%	2.32%
2012	34,726,207	15,422,737	50,148,944	35,130,894	15,602,469	50,733,363	36,074,627	16,021,603	52,096,230	1.09%	1.09%	1.09%	1.41%	1.41%	1.41%	2.14%	2.14%	2.14%
2013	35,336,423	15,693,749	51,030,172	35,852,784	15,923,077	51,775,862	37,053,635	16,456,404	53,510,038	1.76%	1.76%	1.76%	2.05%	2.05%	2.05%	2.71%	2.71%	2.71%
2014	36,138,067	16,049,778	52,187,846	36,768,308	16,329,683	53,097,992	38,230,992	16,979,296	55,210,288	2.27%	2.27%	2.27%	2.55%	2.55%	2.55%	3.18%	3.18%	3.18%
2015	37,164,302	16,505,553	53,669,855	37,913,961	16,838,495	54,752,456	39,652,554	17,610,846	57,263,400	2.84%	2.84%	2.84%	3.12%	3.12%	3.12%	3.72%	3.72%	3.72%
2016	38,174,995	16,954,427	55,129,424	39,047,313	17,341,844	56,389,157	41,069,023	18,239,733	59,308,757	2.72%	2.72%	2.72%	2.99%	2.99%	2.99%	3.57%	3.57%	3.57%
2017	39,002,617	17,321,993	56,324,610	39,996,162	17,763,250	57,759,412	42,301,064	18,786,912	61,087,976	2.17%	2.17%	2.17%	2.43%	2.43%	2.43%	3.00%	3.00%	3.00%
2018	39,825,440	17,687,429	57,512,869	40,942,937	18,183,736	59,126,673	43,514,518	19,337,828	62,879,346	2.11%	2.11%	2.11%	2.37%	2.37%	2.37%	2.93%	2.93%	2.93%
2019	40,840,589	18,138,280	58,978,869	42,091,173	18,693,695	60,784,868	45,008,854	19,989,506	64,998,361	2.55%	2.55%	2.55%	2.80%	2.80%	2.80%	3.37%	3.37%	3.37%
2020	41,829,105	18,577,304	60,406,409	43,216,484	19,193,472	62,409,956	46,463,710	20,635,643	67,099,353	2.42%	2.42%	2.42%	2.67%	2.67%	2.67%	3.23%	3.23%	3.23%
2021	42,643,808	18,939,133	61,582,941	44,165,885	19,615,124	63,781,009	47,742,741	21,203,691	68,946,432	1.95%	1.95%	1.95%	2.20%	2.20%	2.20%	2.75%	2.75%	2.75%
2022	43,400,335	19,275,125	62,675,460	45,058,240	20,011,440	65,069,680	48,972,549	21,749,678	70,722,427	1.77%	1.77%	1.77%	2.02%	2.02%	2.02%	2.58%	2.58%	2.58%
2023	44,454,363	19,743,243	64,197,606	46,263,680	20,546,805	66,810,485	50,559,376	22,454,604	73,013,930	2.43%	2.43%	2.43%	2.68%	2.68%	2.68%	3.24%	3.24%	3.24%
2024	45,718,563	20,304,705	66,023,268	47,695,298	21,182,620	68,877,918	52,404,278	23,273,901	75,678,168	2.84%	2.84%	2.84%	3.09%	3.09%	3.09%	3.65%	3.65%	3.65%
2025	46,587,328	20,690,544	67,277,873	48,717,818	21,636,746	70,354,563	53,820,500	23,902,973	77,723,481	1.90%	1.90%	1.90%	2.14%	2.14%	2.14%	2.70%	2.70%	2.70%
2026	47,492,905	21,022,733	68,515,638	49,783,010	22,109,823	71,892,834	55,299,806	24,559,964	79,859,770	1.94%	1.94%	1.94%	2.19%	2.19%	2.19%	2.75%	2.75%	2.75%
2027	48,561,655	21,579,390	70,141,045	51,024,466	22,661,183	73,685,649	56,991,405	25,311,244	82,302,649	2.25%	2.25%	2.25%	2.49%	2.49%	2.49%	3.06%	3.06%	3.06%
2028	49,848,972	22,197,234	72,046,206	52,122,053	23,148,648	75,270,702	58,538,760	25,998,437	84,537,143	1.91%	1.91%	1.91%	2.15%	2.15%	2.15%	2.71%	2.71%	2.71%
2029	50,368,327	22,369,776	72,738,103	53,173,309	23,615,536	76,788,845	60,050,513	26,669,866	86,720,379	1.78%	1.78%	1.78%	2.02%	2.02%	2.02%	2.58%	2.58%	2.58%
2030	51,273,863	22,771,947	74,045,810	54,257,248	24,096,939	78,354,186	61,615,518	27,364,922	88,980,441	1.80%	1.80%	1.80%	2.04%	2.04%	2.04%	2.61%	2.61%	2.61%

Peak Day - Baseload												Annual Change						
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	41,488	522,785	564,273	41,488	522,785	564,273	41,488	522,785	564,273									
2010	41,339	525,600	566,939	41,541	527,471	569,011	42,002	529,830	571,832	-0.36%	0.54%	0.47%	0.13%	0.90%	0.84%	1.24%	1.35%	1.34%
2011	41,797	531,256	573,052	42,151	534,592	576,742	42,977	539,028	582,005	1.11%	1.08%	1.08%	1.47%	1.35%	1.35%	2.32%	1.74%	1.78%
2012	42,254	542,225	584,479	42,746	547,112	589,859	43,895	553,778	597,673	1.09%	2.06%	1.99%	1.41%	2.34%	2.27%	2.14%	2.74%	2.69%
2013	42,997	554,287	597,283	43,625	560,791	604,416	45,086	569,791	614,877	1.76%	2.22%	2.19%	2.05%	2.50%	2.47%	2.71%	2.89%	2.88%
2014	43,972	566,122	610,094	44,739	574,299	619,038	46,519	585,717	632,235	2.27%	2.14%	2.14%	2.55%	2.41%	2.42%	3.18%	2.79%	2.82%
2015	45,221	577,656	627,876	46,133	587,546	633,679	48,248	601,441	649,690	2.84%	2.04%	2.10%	3.12%	2.31%	2.37%	3.72%	2.68%	2.76%
2016	46,450	589,217	635,668	47,512	600,881	648,399	49,972	617,336	667,308	2.72%	2.00%	2.05%	2.99%	2.27%	2.32%	3.57%	2.64%	2.71%
2017	47,458	600,986	648,444	48,666	614,478	663,144	51,471	633,572	685,043	2.17%	2.00%	2.01%	2.43%	2.26%	2.27%	3.00%	2.63%	2.66%
2018	48,459	612,734	661,192	49,818	628,102	677,921	52,980	649,902	702,882	2.15%	1.95%	1.97%	2.37%	2.22%	2.23%	2.93%	2.58%	2.60%
2019	49,694	624,244	673,938	51,216	641,533	692,748	54,766	665,089	720,855	2.55%	1.88%	1.93%	2.80%	2.14%	2.19%	3.37%	2.49%	2.51%
2020	50,897	635,704	686,601	52,585	655,054	707,639	56,536	682,439	738,975	2.42%	1.95%	1.98%	2.70%	2.11%	2.15%	3.23%	2.45%	2.51%
2021	51,888	647,577	699,465	53,740	668,870	722,610	58,092	699,173	757,165	1.95%	1.85%	1.86%	2.20%	2.11%	2.12%	2.75%	2.45%	2.48%
2022	52,809	659,425	712,233	54,826	682,804	737,630	59,589	716,096	775,685	1.77%	1.83%	1.83%	2.02%	2.08%	2.08%	2.58%	2.42%	2.43%
2023	54,091	670,910	725,001	56,293	696,413	752,706	61,519	732,725	794,245	2.43%	1.74%	1.79%	2.68%	1.99%	2.04%	3.24%	2.32%	2.39%
2024	55,629	682,134	737,764	58,035	709,797	767,832	63,764	749,172	812,936	2.84%	1.67%	1.76%	3.09%	1.92%	1.91%	3.65%	2.24%	2.35%
2025	56,686	693,833	750,519	59,279	723,727	783,005	65,488	766,269	831,757	1.90%	1.71%	1.73%	2.14%	1.96%	1.98%	2.70%	2.28%	2.32%
2026	57,788	705,469	763,257	60,575	737,641	798,215	67,288	783,405	850,692	1.94%	1.68%	1.70%	2.19%	1.92%	1.94%	2.75%	2.24%	2.28%
2027	59,089	716,908	775,997	62,085	751,400	813,485	69,346	800,426	869,772	2.25%	1.62%	1.67%	2.49%	1.87%	1.91%	3.06%	2.17%	2.24%
2028	60,217	728,527	788,744	63,421	765,399	828,820	71,229	817,772	889,001	1.91%	1.62%	1.64%	2.15%	1.86%	1.89%	2.71%	2.17%	2.21%
2029	61,287	740,191	801,478	64,700	779,496	844,196	73,068	835,283	908,351	1.78%	1.60%	1.61%	2.02%	1.84%	1.86%	2.58%	2.14%	2.18%
2030	62,389	752,030	814,411	66,019	793,835	859,854	74,922	853,115	928,087	1.80%	1.60%	1.61%	2.04%	1.84%	1.85%	2.61%	2.13%	2.17%

Therm 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
2009	29,034,005	20,205,578	49,239,583	29,034,005	20,205,564	49,239,569	29,034,005	20,205,578	49,239,583									
2010	29,168,957	19,893,578	49,062,535	29,311,494	19,990,669	49,302,163	29,534,317	20,315,405	49,849,722	0.46%	-1.54%	-0.36%	0.96%	-1.06%	0.13%	1.72%	0.54%	1.24%
2011	29,324,631	20,281,265	49,605,896	29,573,168	20,452,893	50,026,061	29,970,885	21,036,127	51,007,011	0.53%	1.95%	1.11%	0.89%	2.31%	1.47%	1.48%	3.55%	2.32%
2012	29,621,667	20,527,277	50,148,944	29,975,007	20,758,356	50,733,363	30,538,569	21,557,661	52,096,230	1.01%	1.21%	1.09%	1.36%	1.49%	1.41%	1.89%	2.48%	2.14%
2013	30,035,084	20,995,089	51,030,172	30,494,488	21,281,374	51,775,862	31,222,946	22,287,543	53,510,038	1.40%	2.28%	1.76%	1.73%	2.52%	2.05%	2.24%	3.39%	2.71%
2014	30,550,311	21,637,535	52,187,846	31,119,205	21,978,786	53,097,992	32,015,006	23,195,282	55,210,288	1.72%	3.06%	2.27%	2.05%	3.28%	2.55%	2.54%	4.07%	3.18%
2015	31,231,212	22,438,643	53,669,855	31,915,254	22,837,201	54,752,456	32,987,029	24,276,317	57,263,400	2.23%	3.70%	2.84%	2.56%	3.91%	3.12%	3.04%	4.66%	3.72%
2016	31,984,794	23,144,628	55,129,424	32,790,191	23,598,966	56,389,157	34,046,838	25,261,919	59,308,757	2.41%	3.15%	2.79%	2.15%	3.34%	2.99%	3.21%	4.06%	3.57%
2017	32,584,664	23,739,946	56,324,610	33,511,344	24,248,069	57,759,412	34,952,796	26,135,180	61,087,976	1.88%	2.57%	2.17%	2.20%	2.75%	2.43%	2.66%	3.46%	3.00%
2018	33,146,																	

Bend



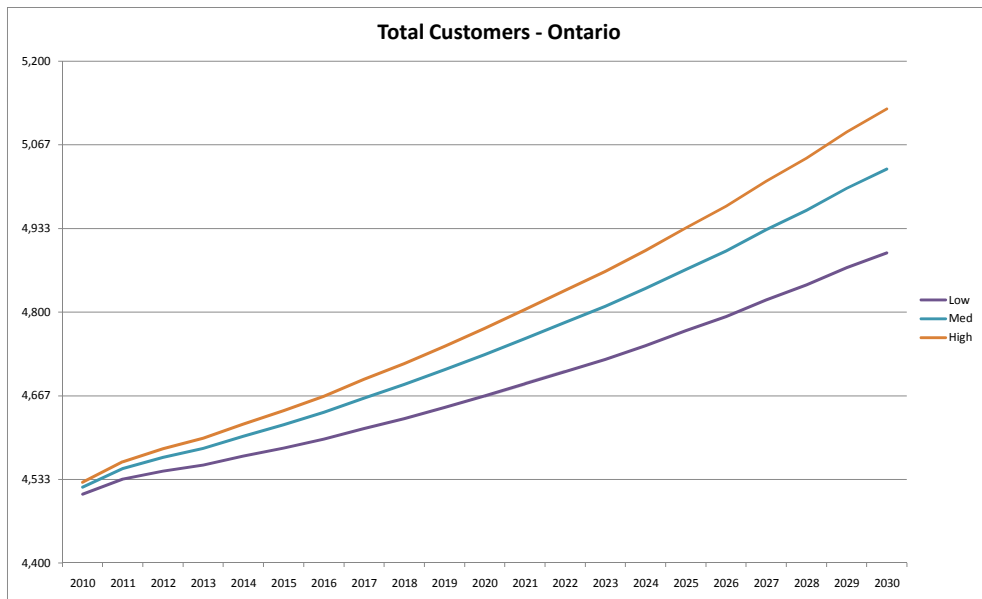
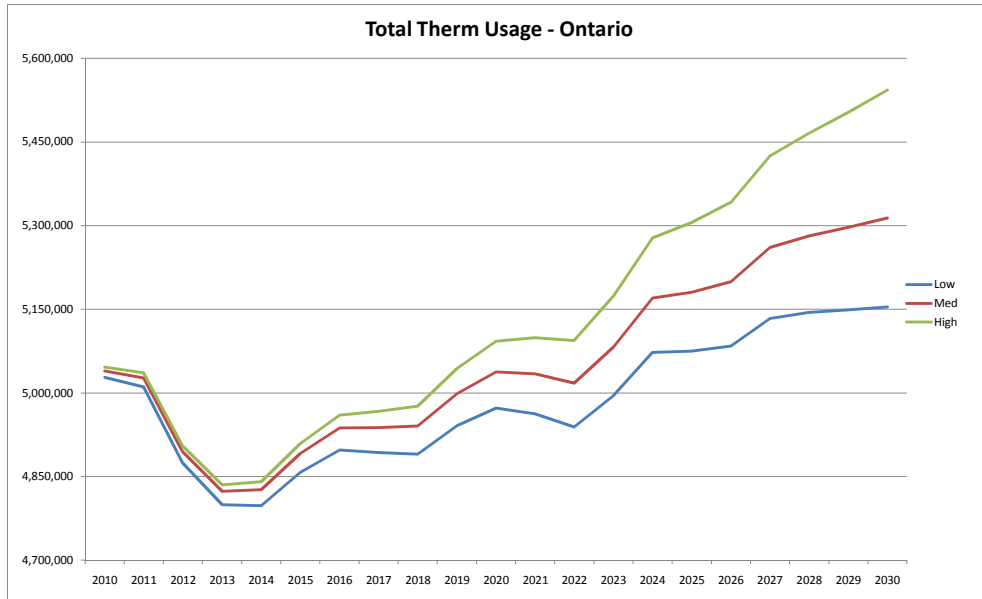
Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

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
2009	3,750,504	1,395,234	5,145,738	3,759,699	1,398,655	5,158,354	3,750,504	1,395,234	5,145,738	-2.29%	-2.29%	-2.29%	-2.31%	-2.31%	-2.31%	-1.93%	-1.93%	-1.93%
2010	3,664,665	1,363,301	5,027,966	3,672,809	1,366,330	5,039,139	3,678,153	1,368,318	5,046,471	-0.34%	-0.34%	-0.34%	-0.24%	-0.24%	-0.24%	-0.21%	-0.21%	-0.21%
2011	3,652,037	1,358,598	5,010,635	3,663,813	1,362,984	5,026,797	3,670,591	1,365,505	5,036,096	-0.27%	-0.27%	-0.27%	-0.24%	-0.24%	-0.24%	-0.21%	-0.21%	-0.21%
2012	3,552,537	1,321,588	4,874,125	3,567,154	1,327,025	4,894,179	3,574,687	1,329,828	4,904,515	-2.72%	-2.72%	-2.72%	-2.64%	-2.64%	-2.64%	-2.61%	-2.61%	-2.61%
2013	3,498,337	1,301,425	4,799,761	3,515,689	1,307,880	4,823,568	3,523,963	1,310,958	4,834,920	-1.53%	-1.53%	-1.53%	-1.44%	-1.44%	-1.44%	-1.42%	-1.42%	-1.42%
2014	3,496,975	1,300,918	4,797,893	3,517,770	1,308,654	4,826,424	3,528,132	1,312,590	4,840,640	-0.04%	-0.04%	-0.04%	0.06%	0.06%	0.06%	0.12%	0.12%	0.12%
2015	3,540,350	1,317,054	4,857,405	3,565,043	1,326,240	4,891,283	3,578,250	1,331,153	4,909,403	1.24%	1.24%	1.24%	1.34%	1.34%	1.34%	1.42%	1.42%	1.42%
2016	3,569,720	1,327,980	4,897,700	3,598,450	1,338,668	4,937,117	3,615,242	1,344,915	4,960,156	0.83%	0.83%	0.83%	0.94%	0.94%	0.94%	1.03%	1.03%	1.03%
2017	3,566,150	1,326,652	4,892,802	3,598,965	1,338,860	4,937,825	3,620,088	1,346,718	4,966,806	-0.10%	-0.10%	-0.10%	0.01%	0.01%	0.01%	0.13%	0.13%	0.13%
2018	3,564,143	1,325,905	4,890,049	3,601,075	1,339,644	4,940,719	3,627,003	1,349,290	4,976,293	-0.06%	-0.06%	-0.06%	0.06%	0.06%	0.06%	0.19%	0.19%	0.19%
2019	3,601,433	1,339,777	4,941,210	3,643,463	1,355,413	4,998,876	3,676,147	1,367,572	5,043,719	1.05%	1.05%	1.05%	1.18%	1.18%	1.18%	1.35%	1.35%	1.35%
2020	3,624,557	1,348,380	4,972,937	3,671,855	1,365,975	5,037,830	3,711,896	1,380,871	5,092,767	0.64%	0.64%	0.64%	0.78%	0.78%	0.78%	0.97%	0.97%	0.97%
2021	3,616,917	1,345,538	4,962,455	3,669,082	1,364,944	5,034,026	3,716,679	1,382,651	5,099,330	-0.21%	-0.21%	-0.21%	-0.08%	-0.08%	-0.08%	0.13%	0.13%	0.13%
2022	3,599,956	1,339,228	4,939,184	3,657,062	1,360,472	5,017,534	3,712,700	1,381,170	5,093,870	-0.47%	-0.47%	-0.47%	-0.33%	-0.33%	-0.33%	0.11%	0.11%	0.11%
2023	3,640,788	1,375,416	5,016,204	3,704,353	1,378,065	5,082,418	3,770,819	1,402,791	5,173,610	1.13%	1.13%	1.13%	1.29%	1.29%	1.29%	1.57%	1.57%	1.57%
2024	3,697,282	1,375,435	5,072,717	3,768,227	1,401,827	5,170,054	3,847,087	1,431,164	5,278,251	1.55%	1.55%	1.55%	1.72%	1.72%	1.72%	2.02%	2.02%	2.02%
2025	3,698,770	1,375,988	5,074,758	3,776,086	1,404,751	5,180,837	3,866,991	1,438,569	5,305,560	0.04%	0.04%	0.04%	0.21%	0.21%	0.21%	0.52%	0.52%	0.52%
2026	3,705,659	1,378,551	5,084,210	3,789,859	1,409,874	5,199,734	3,893,429	1,448,440	5,341,833	0.19%	0.19%	0.19%	0.36%	0.36%	0.36%	0.68%	0.68%	0.68%
2027	3,741,747	1,391,976	5,133,723	3,834,280	1,426,400	5,260,680	3,953,901	1,470,900	5,424,801	0.97%	0.97%	0.97%	1.17%	1.17%	1.17%	1.55%	1.55%	1.55%
2028	3,749,586	1,394,892	5,144,479	3,849,531	1,432,073	5,281,604	3,983,729	1,481,996	5,465,725	0.21%	0.21%	0.21%	0.40%	0.40%	0.40%	0.75%	0.75%	0.75%
2029	3,752,878	1,396,117	5,148,995	3,860,784	1,436,259	5,297,044	4,010,961	1,492,127	5,503,087	0.09%	0.09%	0.09%	0.29%	0.29%	0.29%	0.68%	0.68%	0.68%
2030	3,756,481	1,397,457	5,153,938	3,872,766	1,440,717	5,313,483	4,040,440	1,503,093	5,543,533	0.10%	0.10%	0.10%	0.31%	0.31%	0.31%	0.73%	0.73%	0.73%

Peak Day - Baseload												Annual Change						
	Low			Medium			High			Low			Medium			High		
	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Daily Baseload	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	3,823	26,508	30,331	3,832	26,525	30,357	3,823	26,508	30,331	-2.29%	1.63%	1.14%	-2.31%	1.82%	1.30%	-1.93%	2.07%	1.57%
2010	3,735	26,941	30,676	3,743	27,009	30,752	3,749	27,057	30,806	-0.34%	0.65%	0.53%	-0.24%	0.77%	0.65%	-0.21%	0.84%	0.71%
2011	3,722	27,117	30,839	3,734	27,218	30,952	3,741	27,218	31,026	-0.27%	0.70%	0.29%	-0.24%	0.81%	0.40%	-0.21%	0.88%	0.46%
2012	3,621	27,307	30,927	3,636	27,439	31,075	3,643	27,524	31,167	-2.72%	0.44%	0.21%	-1.44%	0.55%	0.31%	-1.42%	0.60%	0.37%
2013	3,566	27,426	30,992	3,583	27,590	31,173	3,592	27,690	31,282	-1.53%	0.44%	0.21%	-1.44%	0.55%	0.31%	-1.42%	0.60%	0.37%
2014	3,564	27,524	31,088	3,585	27,720	31,306	3,596	27,841	31,437	-0.04%	0.36%	0.31%	0.06%	0.47%	0.43%	0.12%	0.54%	0.50%
2015	3,608	27,567	31,175	3,634	27,795	31,429	3,647	27,934	31,581	1.24%	0.16%	0.28%	1.34%	0.27%	0.39%	0.42%	0.33%	0.46%
2016	3,638	27,634	31,272	3,668	27,895	31,563	3,685	28,054	31,738	0.83%	0.24%	0.31%	0.94%	0.36%	0.43%	0.10%	0.43%	0.50%
2017	3,635	27,753	31,388	3,668	28,050	31,718	3,690	28,231	31,920	-0.10%	0.43%	0.37%	0.01%	0.55%	0.49%	0.13%	0.63%	0.57%
2018	3,633	27,863	31,496	3,670	28,194	31,864	3,697	28,395	32,092	-0.06%	0.40%	0.34%	0.06%	0.51%	0.46%	0.19%	0.58%	0.54%
2019	3,671	27,946	31,616	3,713	28,311	32,024	3,747	28,533	32,279	1.05%	0.29%	0.38%	1.18%	0.41%	0.50%	1.35%	0.48%	0.58%
2020	3,694	28,047	31,741	3,742	28,448	32,196	3,783	28,692	32,475	0.64%	0.36%	0.39%	0.78%	0.48%	0.52%	0.97%	0.56%	0.61%
2021	3,686	28,185	31,871	3,740	28,623	32,362	3,789	28,886	32,677	-0.21%	0.50%	0.41%	-0.08%	0.62%	0.54%	0.13%	0.69%	0.62%
2022	3,669	28,337	32,006	3,727	28,812	32,539	3,784	29,102	32,886	-0.47%	0.54%	0.42%	-0.33%	0.66%	0.55%	-0.11%	0.74%	0.64%
2023	3,711	28,426	32,137	3,776	28,936	32,712	3,843	29,246	33,089	1.13%	0.31%	0.41%	1.29%	0.43%	0.53%	1.57%	0.50%	0.62%
2024	3,768	28,517	32,286	3,841	29,065	32,906	3,921	29,397	33,318	1.55%	0.32%	0.46%	1.72%	0.44%	0.59%	2.02%	0.52%	0.69%
2025	3,770	28,678	32,448	3,849	29,264	33,113	3,941	29,621	33,562	0.04%	0.56%	0.50%	0.21%	0.69%	0.63%	0.52%	0.76%	0.73%
2026	3,777	28,824	32,601	3,863	29,450	33,313	3,968	29,831	33,799	0.19%	0.51%	0.47%	0.36%	0.64%	0.60%	0.68%	0.71%	0.71%
2027	3,814	28,967	32,781	3,908	29,634	33,541	4,030	30,040	34,070	0.97%	0.50%	0.55%	1.17%	0.62%	0.69%	1.55%	0.70%	0.80%
2028	3,822	29,122	32,944	3,923	29,829	33,752	4,060	30,259	34,320	0.21%	0.54%	0.50%	0.40%	0.66%	0.63%	0.75%	0.73%	0.73%
2029	3,825	29,306	33,131	3,935	30,057	33,992	4,088	30,515	34,604	0.09%	0.63%	0.57%	0.29%	0.76%	0.71%	0.68%	0.85%	0.83%
2030	3,829	29,463	33,292	3,947	30,254	34,201	4,118	30,737	34,855	0.10%	0.54%	0.48%	0.31%	0.66%	0.62%	0.73%	0.82%	0.73%

Therm 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
2009	2,095,880	3,049,858	5,145,738	2,095,880	3,062,474	5,158,354	2,095,880	3,049,858	5,145,738	0.02%	-3.87%	-2.29%	0.26%	-4.07%	-2.31%	0.44%	-3.55%	-1.93%
2010	2,096,226	2,931,740	5,027,966	2,101,287	2,937,853	5,039,139	2,105,000	2,941,472	5,046,471	-0.71%	-0.08%	-0.34%	-0.60%	0.01%	-0.24%	-0.53%	0.02%	-0.21%
2011	2,081,253	2,929,368	5,010,635	2,088,705	2,938,092	5,026,797	2,093,891	2,942,204	5,036,096	-1.34%	-3.71%	-2.72%	-1.23%	-3.64%	-2.64%	-1.17%	-3.64%	-2.61%
2012	2,053,436	2,820,689	4,874,125	2,063,027	2,831,152	4,894,179	2,069,472	2,835,044	4,904,515	-1.01%	-1.90%	-1.53%	-0.90%	-1.84%	-1.44%	-0.84%	-1.84%	-1.42%
2013	2,032,746	2,767,016	4,799,761	2,044,384	2,779,184	4,823,568	2,051,997	2,782,924	4,834,920	-1.01%	-1.90%	-1.53%	-0.90%	-1.84%	-1.44%	-0.84%	-1.84%	-1.42%
2014	2,026,329	2,771,564	4,797,893	2,040,239	2,786,185	4,826,424	2,049,354	2,791,287	4,840,640	-0.32%	-0.24%	-0.04%	0.25%	0.06%	-0.13%	0.20%	0.12%	0.12%
2015	2,038,113	2,819,292	4,857,405	2,054,394	2,836,889	4,891,283	2,065,032	2,844,371	4,909,403	0.58%	1.72%	1.24%	0.69%	1.82%	1.34%	0.77%	1.90%	1.42%
2016	2,057,841	2,839,859	4,897,700	2,076,615	2,860,502	4,937,117	2,088,927	2,879,221	4,960,156	0.58%	1.72%	1.24%	0.69%	1.82%	1.34%	1.16%	1.94%	1.03%
2017	2,062,020	2,830,781	4,892,802	2,083,286	2,854,539	4,937,825	2,097,384	2,869,422	4,966,806	0.20%	-0.32%	-0.10%	0.32%	-0.21%	0.01%	0.40%	-0.06%	0.13%
2018	2,061,827	2,828,221	4,890,049	2,085,471	2,855,248	4,940,719	2,101,246	2,875,042	4,976,293	-0.01%	-0.09%	-0.06%	0.10%	0.02%	0.06%	0.18%	0.20%	0.19%
2019	2,074,188	2,867,023	4,941,210	2,100,416	2,898,460	4,998,876	2,118,085	2,925,634	5,043,719									

Ontario



Cascade Natural Gas
2010 IRP Demand Forecast Summary Tables

Pendleton																							
Annual Requirements (Therms)															Annual Change								
Low					Medium					High					Low			Medium			High		
Year	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total		
2009	8,852,714	5,317,325	14,170,039	8,761,072	5,262,281	14,023,353	8,852,714	5,317,325	14,170,039	-6.37%	-6.37%	-6.37%	-4.95%	-4.95%	-4.95%	-5.52%	-5.52%	-5.52%	-0.94%	-0.94%	-0.94%		
2010	8,288,679	4,978,541	13,267,220	8,327,679	5,001,966	13,329,645	8,369,890	5,023,716	13,393,606	-1.40%	-1.40%	-1.40%	-1.15%	-1.15%	-1.15%	-0.94%	-0.94%	-0.94%	-0.28%	-0.28%	-0.28%		
2011	8,173,045	4,909,086	13,082,131	8,232,034	4,944,518	13,176,552	8,284,859	4,976,247	13,261,106	-0.73%	-0.73%	-0.73%	-0.49%	-0.49%	-0.49%	-0.47%	-0.47%	-0.47%	-0.47%	-0.47%	-0.47%		
2012	8,113,225	4,873,356	12,986,582	8,191,844	4,920,378	13,112,222	8,261,308	4,962,101	13,223,409	0.03%	0.03%	0.03%	0.27%	0.27%	0.27%	0.47%	0.47%	0.47%	0.47%	0.47%	0.47%		
2013	8,115,877	4,874,749	12,990,626	8,214,112	4,933,753	13,147,864	8,300,470	4,985,624	13,286,094	0.56%	0.56%	0.56%	0.80%	0.80%	0.80%	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%		
2014	8,161,330	4,902,050	13,063,380	8,279,880	4,973,256	13,253,136	8,383,918	5,035,746	13,419,664	1.14%	1.14%	1.14%	1.38%	1.38%	1.38%	1.58%	1.58%	1.58%	1.58%	1.58%	1.58%		
2015	8,254,239	4,957,855	13,212,094	8,394,222	5,041,935	13,436,157	8,517,107	5,115,745	13,632,852	1.12%	1.12%	1.12%	1.37%	1.37%	1.37%	1.58%	1.58%	1.58%	1.58%	1.58%	1.58%		
2016	8,346,846	5,013,479	13,360,325	8,508,920	5,110,828	13,619,747	8,651,872	5,196,691	13,848,562	1.61%	1.61%	1.61%	1.85%	1.85%	1.85%	2.07%	2.07%	2.07%	2.07%	2.07%	2.07%		
2017	8,400,598	5,045,765	13,446,363	8,583,980	5,155,912	13,739,891	8,746,689	5,253,642	14,000,331	1.02%	1.02%	1.02%	1.26%	1.26%	1.26%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%		
2018	8,452,058	5,076,674	13,528,732	8,657,002	5,199,772	13,856,773	8,839,864	5,309,607	14,149,472	0.61%	0.61%	0.61%	0.85%	0.85%	0.85%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%		
2019	8,538,575	5,128,640	13,667,214	8,766,186	5,265,353	14,031,539	9,070,339	5,387,976	14,558,315	0.96%	0.96%	0.96%	1.20%	1.20%	1.20%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%		
2020	8,620,566	5,177,887	13,798,453	8,870,989	5,328,302	14,199,291	9,097,390	5,464,288	14,561,678	0.55%	0.55%	0.55%	0.79%	0.79%	0.79%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%		
2021	8,668,188	5,206,491	13,874,679	8,940,869	5,370,275	14,311,144	9,189,385	5,519,544	14,708,929	0.40%	0.40%	0.40%	0.63%	0.63%	0.63%	0.83%	0.83%	0.83%	0.83%	0.83%	0.83%		
2022	8,702,577	5,227,146	13,929,723	8,997,015	5,403,999	14,401,014	9,267,427	5,566,420	14,833,848	0.97%	0.97%	0.97%	1.20%	1.20%	1.20%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%		
2023	8,786,984	5,277,851	14,064,835	9,105,059	5,468,895	14,573,954	9,398,790	5,645,322	15,041,113	1.50%	1.50%	1.50%	1.74%	1.74%	1.74%	1.99%	1.99%	1.99%	1.99%	1.99%	1.99%		
2024	8,919,073	5,357,183	14,276,256	9,263,818	5,564,252	14,828,070	9,585,778	5,757,635	15,343,413	0.57%	0.57%	0.57%	0.80%	0.80%	0.80%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%		
2025	8,970,130	5,387,851	14,357,981	9,338,268	5,608,970	14,947,238	9,684,763	5,817,090	15,501,854	0.60%	0.60%	0.60%	0.82%	0.82%	0.82%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%		
2026	9,023,779	5,420,075	14,443,854	9,415,141	5,655,143	15,070,284	9,786,160	5,877,994	15,664,154	0.91%	0.91%	0.91%	1.14%	1.14%	1.14%	1.37%	1.37%	1.37%	1.37%	1.37%	1.37%		
2027	9,105,993	5,469,455	14,575,448	9,522,529	5,719,646	15,242,175	9,920,328	5,958,580	15,978,908	0.62%	0.62%	0.62%	0.85%	0.85%	0.85%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%		
2028	9,162,779	5,503,564	14,666,343	9,603,788	5,768,453	15,372,242	10,028,142	6,023,338	16,051,480	0.48%	0.48%	0.48%	0.71%	0.71%	0.71%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%		
2029	9,207,135	5,530,206	14,737,342	9,671,533	5,809,144	15,480,677	10,121,643	6,079,499	16,201,143	0.53%	0.53%	0.53%	0.76%	0.76%	0.76%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%		
2030	9,256,360	5,559,773	14,816,133	9,744,987	5,853,263	15,598,250	10,221,454	6,139,450	16,360,904														

Peak Day - BaseLoad										Annual Change								
Low			Medium			High				Low			Medium			High		
Year	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Daily BaseLoad	Peak	Total Core Peak	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2009	14,568	184,181	198,750	14,417	180,514	194,931	14,568	184,181	198,750	-6.37%	-1.77%	-2.10%	-4.95%	0.67%	0.26%	-5.52%	-0.89%	-1.23%
2010	13,640	180,927	194,567	13,704	181,725	195,429	13,764	182,540	196,304	-1.40%	-0.95%	-0.98%	-1.15%	-0.69%	-0.72%	-0.94%	-0.40%	-0.44%
2011	13,450	179,211	192,661	13,547	180,468	194,014	13,634	181,808	195,442	-0.73%	0.89%	0.78%	-0.49%	1.15%	1.04%	-0.28%	1.45%	1.33%
2012	13,351	180,814	194,165	13,480	182,550	196,031	13,595	184,439	198,033	0.03%	1.29%	1.21%	0.27%	1.55%	1.46%	0.47%	1.83%	1.74%
2013	13,355	183,152	196,508	13,517	185,375	198,892	13,659	187,821	201,480	0.56%	1.24%	1.19%	0.80%	1.49%	1.44%	1.01%	1.77%	1.72%
2014	13,430	185,416	198,847	13,625	188,136	201,762	13,797	191,151	204,947	1.14%	1.17%	1.17%	1.38%	1.42%	1.42%	1.59%	1.70%	1.69%
2015	13,583	187,587	201,171	13,814	190,813	204,627	14,016	194,405	208,420	1.12%	1.15%	1.15%	1.37%	1.41%	1.40%	1.58%	1.68%	1.68%
2016	13,736	189,754	203,489	14,002	193,498	207,501	14,238	197,679	211,916	1.02%	1.05%	1.05%	1.26%	1.29%	1.29%	1.47%	1.57%	1.57%
2017	13,824	191,943	205,767	14,126	196,209	210,335	14,394	200,982	215,735	0.61%	1.13%	1.09%	0.85%	1.38%	1.34%	1.07%	1.64%	1.60%
2018	13,909	194,110	208,019	14,246	198,909	213,154	14,547	204,281	218,828	0.64%	1.15%	1.12%	0.88%	1.40%	1.37%	1.10%	1.67%	1.63%
2019	14,051	196,188	210,239	14,426	201,521	215,946	14,762	207,497	222,258	0.96%	1.07%	1.07%	1.26%	1.31%	1.31%	1.48%	1.57%	1.57%
2020	14,186	198,242	212,428	14,598	204,113	218,714	14,971	210,695	225,665	0.96%	1.05%	1.04%	1.20%	1.24%	1.24%	1.42%	1.54%	1.53%
2021	14,264	200,355	214,619	14,713	206,779	221,493	15,122	213,981	229,103	0.55%	1.07%	1.03%	0.79%	1.31%	1.27%	1.01%	1.56%	1.52%
2022	14,321	202,427	216,748	14,805	209,406	224,212	15,250	217,226	232,476	0.40%	1.03%	0.99%	0.63%	1.27%	1.23%	0.85%	1.52%	1.47%
2023	14,460	204,366	218,832	14,983	211,899	226,882	15,467	220,332	235,799	0.97%	0.96%	0.96%	1.20%	1.19%	1.19%	1.42%	1.43%	1.43%
2024	14,677	206,215	220,892	15,245	214,310	229,554	15,774	223,362	239,136	1.50%	0.90%	0.94%	1.74%	1.14%	1.18%	1.99%	1.37%	1.42%
2025	14,761	208,146	222,907	15,367	216,810	232,177	15,937	226,486	242,423	0.57%	0.94%	0.91%	0.80%	1.17%	1.14%	1.03%	1.40%	1.37%
2026	14,850	209,984	224,834	15,494	219,210	234,704	16,104	229,495	245,599	0.60%	0.88%	0.86%	0.82%	1.11%	1.09%	1.05%	1.33%	1.31%
2027	14,985	211,766	226,751	15,670	221,562	237,232	16,325	232,643	248,788	0.91%	0.85%	0.85%	1.14%	1.07%	1.08%	1.37%	1.29%	1.30%
2028	15,078	213,567	228,645	15,804	223,944	239,748	16,502	235,469	251,971	0.62%	0.85%	0.84%	0.85%	1.08%	1.06%	1.09%	1.29%	1.28%
2029	15,151	215,293	230,444	15,915	226,239	242,154	16,656	238,371	255,027	0.48%	0.81%	0.79%	0.71%	1.02%	1.00%	0.93%	1.23%	1.21%
2030	15,232	217,075	232,307	16,036	228,606	244,643	16,820	241,360	258,180	0.53%	0.83%	0.81%	0.76%	1.05%	1.03%	0.99%	1.25%	1.24%

Therm Usage by Class										Annual Change								
Low			Medium			High				Low			Medium			High		
Year	RES	COM/IND	Total	RES	COM/IND	Total	RES	COM/IND	Total	RES	COM/IND	Total	RES	COM/IND	Total	RES	COM/IND	Total
2009	6,511,321	7,658,719	14,170,039	6,364,636	7,658,717	14,023,353	6,511,321	7,658,719	14,170,039	-6.77%	-6.03%	-6.37%	-4.20%	-5.57%	-4.95%	-5.95%	-5.16%	-5.52%
2010	6,070,590	7,196,630	13,267,220	6,097,543	7,232,102	13,329,645	6,124,099	7,263,507	13,387,606	-1.69%	-1.15%	-1.40%	-1.39%	-0.95%	-1.15%	-0.96%	-0.93%	-0.94%
2011	5,968,141	7,113,990	13,082,131	6,012,870	7,163,682	13,176,552	6,065,435	7,195,671	13,261,106	-0.24%	-1.15%	-0.73%	0.07%	-0.95%	-0.49%	0.51%	-0.96%	-0.28%
2012	5,953,880	7,032,502	12,986,382	6,016,814	7,095,408	13,112,222	6,096,478	7,126,931	13,223,409	0.51%	-0.37%	0.03%	0.81%	-0.19%	0.27%	1.26%	-0.20%	0.47%
2013	5,984,225	7,006,401	12,990,626	6,065,703	7,082,162	13,147,864	6,173,503	7,112,591	13,286,094	0.98%	0.20%	0.56%	1.09%	0.38%	0.80%	1.75%	0.36%	1.01%
2014	6,043,082	7,020,299	13,063,380	6,143,866	7,109,270	13,253,136	6,281,237	7,138,427	13,419,664	1.02%	0.30%	0.63%	1.16%	0.38%	0.85%	1.75%	0.36%	1.01%
2015	6,145,633	7,066,461	13,212,094	6,267,038	7,169,119	13,436,157	6,436,216	7,196,636	13,632,852	1.70%	0.66%	1.14%	2.00%	0.84%	1.38%	2.47%	0.82%	1.59%
2016	6,2																	

Pendleton

