

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION

COMMISSION

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

DOCKET NOS. UE-190529, UG-
190530, UE-190274, UG-190275
(*Consolidated*)

EXH. AEW-04

**PSE RESPONSE TO NVEC DATA REQUEST NO. 018
ATTACHMENT A**

ON BEHALF OF

NW ENERGY COALITION

November 22, 2019

Puget Sound Energy
Response to NWECC Data Request No. 018 Attachment A

Residential Rates	Modifications	New Facilities
Basic Charge		\$ 11.52
- Months per Year		12
Annual Basic Charge Revenue		\$ 138.24
Annual Allowed Revenue Per Customer	\$ 352.58	\$ 352.58
Annual Revenue	\$ 352.58	\$ 490.82
After-Tax Return Grossed Up For Taxes	9.31%	9.31%
Allowance	\$ 3,787.11	\$ 5,271.97
Annual Therm Per Customer	795	795
Allowance Per Therm	\$ 4.77	\$ 6.63

Puget Sound Energy
Response to NWECC Data Request No. 018 Attachment A

Non-Residential Rates (31/31T)	Modifications	New Facilities
Average Monthly Basic Charge		\$ 34.47
- Months per Year		12
Annual Average Basic Charge Revenue		\$ 413.62
Annual Allowed Revenue Per Customer	\$ 1,726.95	\$ 1,726.95
Annual Revenue	\$ 1,726.95	\$ 2,140.57
After-Tax Return Grossed Up For Taxes	9.31%	9.31%
Allowance Per Customer	\$ 18,549.41	\$ 22,992.13
Annual Therm Per Customer	4,097	4,097
Allowance Per Therm	\$ 4.53	\$ 5.61

Puget Sound Energy
Response to NWECA Data Request No. 018 Attachment A

Non-Residential Rates (41/41T/86/86T)	Modifications	New Facilities
Average Monthly Basic Charge		\$ 136.70
- Months per Year		12
Annual Average Basic Charge Revenue		\$ 1,640.44
Annual Allowed Revenue Per Customer	\$ 11,008.35	\$ 11,008.35
Annual Revenue	\$ 11,008.35	\$ 12,648.79
After-Tax Return Grossed Up For Taxes	9.31%	9.31%
Allowance Per Customer	\$ 118,242.21	\$ 135,862.43
Annual Therm Per Customer	57,017	57,017
Allowance Per Therm	\$ 2.07	\$ 2.38

Puget Sound Energy
Response to NWECA Data Request No. 018 Attachment A

	Modifications		New Facilities	
	Sch 85/85T	Sch 87/87T	Sch 85/85T	Sch 87/87T
Non-Residential Rates (85/85T/87/87T)				
Average Monthly Basic Charge			\$ 820.04	\$ 808.17
- Months per Year			12	12
Annual Average Basic Charge Revenue			\$ 9,840.43	\$ 9,697.99
Annual Margin Revenue	\$ 8,943,606	\$ 5,839,393	\$ 8,943,606	\$ 5,839,393
Average Number of Customers	130	15	130	15
Annual "Allowed" Revenue Per Customer	\$ 68,796.97	\$ 389,292.84	\$ 68,796.97	\$ 389,292.84
Annual Revenue	\$ 68,796.97	\$ 389,292.84	\$ 78,637.40	\$ 398,990.83
After-Tax Return Grossed Up For Taxes	9.31%	9.31%	9.31%	9.31%
Allowance Per Customer	\$ 738,957.82	\$ 4,181,448.39	\$ 844,655.23	\$ 4,285,615.79
Annual Therm Per Customer	697,078.13	8,207,268.76	697,078	8,207,269
Allowance Per Therm	\$ 1.06	\$ 0.51	\$ 1.21	\$ 0.52

**PUGET SOUND ENERGY
Natural Gas Tariff**

**RULES AND REGULATIONS (Continued)
RULE NO. 6: Extension of Distribution Facilities**

(N)

1. **PURPOSE:** The purpose of this rule is to make Gas Service available to prospective Customers based on long-term economic benefits consistent with prudent utility practices effective on March 1, 2017, throughout the Company's Gas Service territory. This rule defines the terms and conditions under which Distribution Facilities will be extended to new Gas Service Customers or modified at the request of existing Customers, in the Company's sole opinion if no significant barriers exist. However, service may not be provided or extended or modified for reasons described in WAC 480-90-123, Refusal of Service.

2. **DEFINITIONS:**
 - a. **Credit:** A decrease in Customer Payment requirement per the Company's tariff schedule or when the Company allows the Customer to do some of the work (e.g., constructing the ditch). All facilities provided by the Customer must meet the Company's specifications.

 - b. **Customer Payment:** A prepayment by a Customer for the extension or modification of Distribution Facilities. The amount of the payment will be equal to the difference between the Margin Allowance and the Line Extension Costs after applicable Credit. The Customer Payment shall include the effect of applicable federal income taxes as per Rule No. 28.

 - c. **Distribution Facilities:** Distribution main, pressure regulating devices, service piping and appurtenances required to connect existing facilities of the Company, having capacity adequate to supply the Gas Service the Customer requested, to the meter location.

 - d. **Distribution Margin:** For the new Customer line extension project, the sum of twelve months of the basic charges plus the decoupled revenue as determined by the Commission and administered through Schedule No. 142, Revenue Decoupling Adjustment Mechanism, or as calculated in the same manner for rate schedules that are not subject to Schedule No. 142. For the existing Customer line extension modification, the sum of twelve months of the basic charges is excluded from the Distribution Margin determination.

(N)

(Continued on Sheet No. 16-A)

Issued: December 6, 2016
Advice No.: 2016-36

Effective: January 13, 2017

PUGET SOUND ENERGY, INC.
2019 GENERAL RATE CASE
Utility Capital Structure
Proposed Cost of Capital and Rate of Return

Line No.	DESCRIPTION			
1	SHORT AND LONG TERM DEBT	51.50%	5.57%	2.87%
2	EQUITY	48.50%	9.80%	4.75%
3	TOTAL	<u>100.00%</u>		<u>7.62%</u>
4				
5	AFTER TAX SHORT TERM DEBT ((LINE 1)* 79%)	51.50%	4.40%	2.27%
6	EQUITY	48.50%	9.80%	4.75%
7	TOTAL AFTER TAX COST OF CAPITAL	<u>100.00%</u>		<u>7.02%</u>

**PUGET SOUND ENERGY-GAS
CONVERSION FACTOR
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2018
2019 GENERAL RATE CASE**

LINE NO.	DESCRIPTION	%'s	RATE
1	BAD DEBTS		0.005124
2	ANNUAL FILING FEE		0.002000
3	STATE UTILITY TAX - NET OF BAD DEBTS (3.852% - (LINE 1 * 3.852%))	3.8520%	0.038323
4			
5	SUM OF TAXES OTHER		0.045447
6			
7	CONVERSION FACTOR EXCLUDING FEDERAL INCOME TAX (1 - LINE 5)		0.954553
8	FEDERAL INCOME TAX	21%	0.200456
9	CONVERSION FACTOR INCL FEDERAL INCOME TAX (LINE 5 + LINE 8)		0.754097

Puget Sound Energy
2019 Gas General Rate Case (GRC)
Gas Decoupling Mechanism (Schedule 142)
Development of Allowed Delivery Revenue Per Customer

Line No.	(a)	Source (b)	Schedules 23 & 53 (c)	Schedules 31 & 31T (d)	Schedules 41, 41T, 86 & 86T (e)
1	Test Year Delivery Revenue	JAP-13 Page 1	\$ 272,232,813	\$ 97,904,252	\$ 18,383,942
2					
3	Test Year Customers	Work Paper	772,124	56,692	1,670
4					
5	Annual Allowed Delivery Revenue Per Customer	(1) / (3)	\$ 352.58	\$ 1,726.95	\$ 11,008.35

**Puget
2019 Gas Gen
Gas Decoupling M
Development of Monthly Allk**

Line No.	Source	Jan	Feb	Mar	
(a)	(b)	(c)	(d)	(e)	
Sales					
1	<u>Schedules 23 & 53</u>				
2	Weather-Normalized Therm Sales	Exhibit JAP-04 Work Paper	97,231,172	73,373,174	75,850,007
3	% of Annual Total	% of (C(o):R(2))	15.84%	11.96%	12.36%
4					
5	<u>Schedules 31 & 31T</u>				
6	Weather-Normalized Therm Sales	Exhibit JAP-04 Work Paper	33,824,695	26,744,448	27,371,494
7	% of Annual Total	% of (C(o):R(6))	14.56%	11.51%	11.78%
8					
9	<u>Schedules 41, 41T, 86 & 86T</u>				
10	Weather-Normalized Therm Sales	Exhibit JAP-04 Work Paper	11,422,001	9,743,349	10,258,492
11	% of Annual Total	% of (C(o):R(10))	12.00%	10.23%	10.77%
12					
13	<u>Monthly Allowed Delivery Revenue Per Customer</u>				
14	<u>Schedules 23 & 53</u>				
15	Allowed Delivery Revenue Per Customer	JAP-13 Page 2			
16	Monthly Allowed Delivery Revenue Per Customer	(3) x (15)	\$ 55.86	\$ 42.16	\$ 43.58
17					
18	<u>Schedules 31 & 31T</u>				
19	Allowed Delivery Revenue Per Customer	JAP-13 Page 2			
20	Monthly Allowed Delivery Revenue Per Customer	(7) x (19)	\$ 251.48	\$ 198.84	\$ 203.50
21					
22	<u>Schedules 41, 41T, 86 & 86T</u>				
23	Allowed Delivery Revenue Per Customer	JAP-13 Page 2			
24	Monthly Allowed Delivery Revenue Per Customer	(11) x (23)	\$ 1,320.51	\$ 1,126.44	\$ 1,186.00

Sound Energy
General Rate Case (GRC)
Mechanism (Schedule 142)
Projected Delivery Revenue Per Customer

Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
50,273,385 8.19%	30,885,642 5.03%	19,280,945 3.14%	13,445,152 2.19%	13,243,857 2.16%	21,691,921 3.53%	44,274,555 7.21%	77,701,214 12.66%	96,411,150 15.71%	613,662,174 100.00%
19,232,156 8.28%	12,821,978 5.52%	9,368,749 4.03%	8,114,895 3.49%	8,198,553 3.53%	10,192,052 4.39%	16,642,566 7.16%	26,450,307 11.39%	33,314,828 14.34%	232,276,721 100.00%
8,334,174 8.75%	6,630,461 6.96%	5,512,400 5.79%	4,698,029 4.93%	4,792,916 5.03%	5,473,710 5.75%	7,606,783 7.99%	9,662,881 10.15%	11,083,609 11.64%	95,218,804 100.00%
\$ 28.88	\$ 17.75	\$ 11.08	\$ 7.72	\$ 7.61	\$ 12.46	\$ 25.44	\$ 44.64	\$ 55.39	\$ 352.58
\$ 142.99	\$ 95.33	\$ 69.66	\$ 60.33	\$ 60.96	\$ 75.78	\$ 123.74	\$ 196.65	\$ 247.69	\$ 1,726.95
\$ 963.52	\$ 766.55	\$ 637.29	\$ 543.14	\$ 554.11	\$ 632.82	\$ 879.43	\$ 1,117.14	\$ 1,281.39	\$ 11,008.35

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 16, 23 & 53)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 23										
Basic Charge	Bills	9,401,342	\$11.00	\$103,414,757	\$11.52	\$108,303,454	\$4,888,698	4.7%	TARGET 23/53 \$64,776,319 over (under) (\$329)	4.727%
Delivery Charge	Therms	613,662,109	\$0.34603	\$212,345,500	\$0.44362	\$272,232,785	\$59,887,285	28.2%		
				\$315,760,256		\$380,536,239	\$64,775,983	20.5%		
Gas Revenue (Schedule 101) (1)	Therms	613,662,109	\$0.32665	\$200,452,728	\$0.32665	\$200,452,728	\$0	0.0%	28.2040%	
Total Revenues				\$516,212,984		\$580,988,967	\$64,775,983	12.5%		
Schedule 53										
Basic Charge	Bills	1	\$11.00	\$16	\$11.52	\$17	\$1		TARGET 16 \$986 over (under) (\$3)	20.640%
Delivery Charge	Therms	64	\$0.34603	\$22	\$0.44362	\$29	\$6			
Total Delivery Charges				\$39		\$46	\$7	18.3%		
Gas Revenue (Schedule 101)	Therms	64	\$4.80769	\$310	\$4.80769	\$310	\$0	0.0%		
Total Revenues				\$349		\$356	\$7	2.0%		
Schedule 16										
Total Delivery Charge	Mantles	492	\$9.69	\$4,765	\$11.69	\$5,749	\$984	20.6%	TARGET 16 \$986 over (under) (\$3)	20.640%
Calculated Total Therms		9,344								
Gas Revenue (Schedule 101) (1)		492	\$6.21	\$3,054	\$6.21	\$3,054	\$0	0.0%		
Total Revenues				\$7,820		\$8,803	\$984	12.6%	20.6712%	
Residential Summary										
			Therms	Current		Proposed	Change			
Total Residential Gas (Schedule 101) Revenues				\$200,456,092		\$200,456,092	\$0			
Total Residential Margin Revenues				\$315,765,060		\$380,542,034	\$64,776,973	20.5%		
Total Residential Revenues		613,671,518		\$516,221,152		\$580,998,126	\$64,776,973	12.5%		
(1) Schedule 101 rates in effective November 1, 2018										
Check			-	(0.00)						

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 31, 31T, 41 & 41T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 31 - Sales										
Basic Charge	Bills	692,597	\$32.16	\$22,273,923	\$33.84	\$23,437,487	\$1,163,563		TARGET 31/31T \$28,555,076 over (under) \$1,091	5.224%
Delivery Charge	Therms	232,245,223	\$0.29475	\$68,454,279	\$0.40925	\$95,046,357	\$26,592,078			38.846%
Procurement Charge		232,245,223	\$0.00882	\$2,048,403	\$0.01225	\$2,845,004	\$796,601			38.889%
Total Delivery Charges				\$92,776,606		\$121,328,848	\$28,552,242		38.8450%	30.8%
Gas Revenue (Schedule 101) (1)	Therms	232,245,223	\$ 0.31873	\$74,023,520	\$0.31873	\$74,023,520	\$0			0.0%
Total Revenues				\$166,800,126		\$195,352,368	\$28,552,242			17.1%
Schedule 31 - Transportation										
Basic Charge	Bills	31	\$353.77	\$10,967	\$364.04	\$11,285	\$318			2.903%
Delivery Charge	Therms	31,498	\$0.29475	\$9,284	\$0.40925	\$12,891	\$3,607			38.846%
Procurement Charge		31,498	\$0.00000	\$0	\$0.00000	\$0	\$0			
Total Delivery Charges				\$20,251		\$24,176	\$3,925			
Gas Balancing Service Charge	Therms	31,498	\$0.00070	\$22	\$0.00100	\$31	\$9			
Total Revenues				\$20,273		\$24,207	\$3,934			
Schedule 31 - Total										
Basic Charge	Bills	692,628		\$22,284,890		\$23,448,772	\$1,163,882			
Delivery Charge	Therms	232,276,721		\$68,463,564		\$95,059,248	\$26,595,685			
Procurement Charge	Therms	232,276,721		\$2,048,403		\$2,845,004	\$796,601			
Total Delivery Charges				\$92,796,857		\$121,353,024	\$28,556,167			30.8%
Gas Revenue (Schedule 101) (1)	Therms	232,276,721		\$74,023,542		\$74,023,551	\$9			0.0%
Total Revenues				\$166,820,399		\$195,376,575	\$28,556,177			17.1%

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 31, 31T, 41 & 41T)
Test Year Ended December 31, 2018

Description	Units	Billing		Current		Proposed		Difference		Target Increase	Resulting Percent
		Determinants	Rates	Revenues	Rates	Revenues	\$	%			
Schedule 41 - Sales											
Basic Charge	Bills	15,978	\$106.43	\$1,700,551	\$113.40	\$1,811,918	\$111,367			TARGET 41/41T \$1,995,518 over (under) \$13	6.549%
Minimum Bill	Bills	15,978	\$115.88	\$1,851,544	\$131.30	\$2,097,927	\$246,383				13.307%
Demand Charge	Demand	4,466,418	\$1.17	\$5,225,709	\$1.25	\$5,583,022	\$357,313				6.838%
Delivery Charge:											
First 900 therms	Therms	13,387,854	\$0.12876	in minimum bills	\$0.14589	in minimum bills					13.304%
Next 4,100 therms	Therms	29,572,063	\$0.12876	\$3,807,699	\$0.14589	\$4,314,268	\$506,569				13.304%
All over 5,000 therms	Therms	22,537,947	\$0.10364	\$2,335,833	\$0.11743	\$2,646,631	\$310,798				13.306%
Total Volume		65,497,865									
Procurement Charge	Therms	65,497,865	\$ 0.00609	\$398,882	\$0.00690	\$451,935	\$53,053				13.300%
Total Delivery Charges				\$15,320,218		\$16,905,702	\$1,585,484		10.3%		
Gas Revenue (Schedule 101) (1)											
Volumetric Charge	Therms	65,497,865	\$0.22710	\$14,874,565	\$0.22710	\$14,874,565	\$0				
Demand Charge	Demand	4,466,418	\$1.05	\$4,689,739	\$1.05	\$4,689,739	\$0				
Total Gas Revenue				\$19,564,304		\$19,564,304	\$0		0.0%		
Total Revenues				\$34,884,521		\$36,470,006	\$1,585,484		4.5%		
Schedule 41 - Transportation											
Basic Charge	Bills	1,233	\$410.51	\$506,297	\$422.79	\$521,442	\$15,145				2.991%
Minimum Bill	Bills	1,233	\$115.88	\$142,919	\$131.30	\$161,937	\$19,018				13.307%
Demand Charge	Demand	1,160,981	\$1.17	\$1,358,347	\$1.25	\$1,451,226	\$92,878				6.838%
Delivery Charge:											
First 900 therms	Therms	1,129,777	\$0.12876	in minimum bills	\$0.14589	in minimum bills					13.304%
Next 4,100 therms	Therms	4,274,079	\$0.12876	\$550,330	\$0.14589	\$623,545	\$73,215				13.304%
All over 5,000 therms	Therms	15,213,158	\$0.10364	\$1,576,692	\$0.11743	\$1,786,481	\$209,789				13.306%
Total Volume		20,617,014									
Procurement Charge	Therms	20,617,014	\$0.00000	\$0	\$0.00000	\$0	\$0				
Total Delivery Charges				\$4,134,585		\$4,544,631	\$410,046		9.9%		
Gas Balancing Service Charge	Therms	20,617,014	\$0.00070	\$14,432	\$0.00100	\$20,617	\$6,185				
Total Revenues				\$4,149,017		\$4,565,248	\$416,231		10.0%		
Schedule 41 - Total											

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 31, 31T, 41 & 41T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Basic Charge	Bills	17,211		\$2,206,848		\$2,333,360		\$126,513		
Minimum Bill	Bills	17,211		\$1,994,463		\$2,259,864		\$265,401		
Demand Charge	Demand	5,627,398		\$6,584,056		\$7,034,248		\$450,192		
Delivery Charge:										
First 900 therms	Therms	14,517,631		in minimum bills		in minimum bills				
Next 4,100 therms	Therms	33,846,143		\$4,358,029		\$4,937,814		\$579,784		
All over 5,000 therms	Therms	37,751,106		\$3,912,525		\$4,433,112		\$520,588		
Total Volume		86,114,879								
Procurement Charge	Therms	86,114,879		\$398,882		\$451,935		\$0		
Total Delivery Charges				\$19,454,803		\$21,450,333		\$1,942,477	10.0%	
Gas Revenue (Schedule 101) (1)										
Volumetric Charge				\$14,874,565		\$14,874,565		\$0		
Demand Charge				\$4,689,739		\$4,689,739		\$0		
Gas Balancing Service Charge				\$14,432		\$20,617		\$6,185		
Total Gas Revenue				\$19,578,736		\$19,584,921		\$6,185	0.0%	
Total Revenues				\$39,033,538		\$41,035,254		\$1,948,663	5.0%	

Commercial & Industrial Summary

	Therms	Current	Proposed	Change	
Total Gas (Schedule 101) Revenues					
Schedules 31, 31T, 61		\$74,023,542	\$74,023,551	\$9	
Schedule 41, 41T		\$19,578,736	\$19,584,921	\$6,185	
Total		\$93,602,277	\$93,608,472	\$6,195	
Total Margin Revenues					
Schedules 31, 31T		\$92,796,857	\$121,353,024	\$28,556,167	30.8%
Schedule 41, 41T		\$19,454,803	\$21,450,333	\$1,995,531	10.3%
Total		\$112,251,659	\$142,803,357	\$30,551,698	27.2%
Total Revenue					
Schedules 31, 31T	232,276,721	\$166,820,399	\$195,376,575	\$28,556,177	17.1%
Schedule 41, 41T	86,114,879	\$39,033,538	\$41,035,254	\$2,001,716	5.1%
Total	318,391,600	\$205,853,937	\$236,411,829	\$30,557,892	14.8%

(1) Schedule 101 rates in effective November 1, 2018

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 85 - Sales										
Basic Charge	Bills	330	\$548.57	\$180,764	\$595.08	\$196,089	\$15,326		TARGET 85/85T \$1,742,262 over (under) \$12	8.478%
Demand Charge	Demand	86,413	\$1.21	\$104,560	\$1.30	\$112,337	\$7,777			7.438%
Procurement Charge	Therms	15,787,999	\$0.00747	\$117,936	\$0.00940	\$148,407	\$30,471			25.837%
Minimum Bills				\$0		\$0	\$0			
Delivery Charge:										
First 25,000 Therms	Therms	7,617,622	\$0.09936	\$756,887	\$0.12501	\$952,279	\$195,392			25.815%
Next 25,000 Therms	Therms	4,021,282	\$0.04917	\$197,726	\$0.06186	\$248,756	\$51,030			25.808%
All over 50,000 Therms	Therms	4,149,095	\$0.04704	\$195,173	\$0.05918	\$245,543	\$50,370			25.808%
Total Delivery Charges		15,787,999		\$1,553,046		\$1,903,412	\$350,366	22.6%		
Gas Revenue (Schedule 101) (1)										
Volumetric Charge	Therms	15,787,999	\$0.27020	\$4,265,917	\$0.27020	\$4,265,917	\$0			
Demand Charge	Demand	86,413	\$1.05	\$90,734	\$1.05	\$90,734	\$0			
Total Gas Revenue				\$4,356,651		\$4,356,651	\$0	0.0%		
Total Revenues				\$5,909,697		\$6,260,063	\$350,366	5.9%		
Schedule 85 - Transportation										
Basic Charge	Bills	1,199	\$877.69	\$1,052,701	\$903.09	\$1,083,166	\$30,465			2.894%
Demand Charge	Demand	697,056	\$1.21	\$843,438	\$1.30	\$906,173	\$62,735			7.438%
Minimum Bills				\$12,285		\$12,285	\$0			
Delivery Charge:										
First 25,000 Therms	Therms	28,123,064	\$0.09936	\$2,794,308	\$0.12501	\$3,515,664	\$721,357			25.815%
Next 25,000 Therms	Therms	18,732,273	\$0.04917	\$921,066	\$0.06186	\$1,158,778	\$237,713			25.808%
Next 50,000 Therms	Therms	27,976,822	\$0.04704	\$1,316,030	\$0.05918	\$1,655,668	\$339,639			25.808%
Total Delivery Charges		74,832,158		\$6,939,827		\$8,331,735	\$1,391,908	20.1%		
Gas Balancing Service Charge	Therms	74,832,158	\$0.00070	\$52,383	\$0.00100	\$74,832	\$22,450			
Total Revenues				\$6,992,210		\$8,406,567	\$1,414,357	20.2%		

TARGET 85/85T
 \$1,742,262
 over (under)
 \$12

25.8150%

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 85 - Total										
Basic Charge	Bills	1,529		\$1,233,465		\$1,279,256		\$45,791		
Demand Charge	Demand	783,469		\$947,997		\$1,018,510		\$70,512		
Procurement Charge	Therms	15,787,999		\$117,936		\$148,407		\$30,471		
Minimum Bills				\$12,285		\$12,285		\$0		
Delivery Charge:										
First 25,000 Therms	Therms	35,740,685		\$3,551,195		\$4,467,943		\$916,749		
Next 25,000 Therms	Therms	22,753,555		\$1,118,792		\$1,407,535		\$288,743		
All over 50,000 Therms	Therms	32,125,917		\$1,511,203		\$1,901,212		\$390,009		
Total Delivery Charges		90,620,157		\$8,492,873		\$10,235,147		\$1,742,273	20.5%	
Gas Revenue (Schedule 101) (1)										
Volumetric Charge		15,787,999		\$4,265,917		\$4,265,917		\$0		
Demand Charge		86,413		\$90,734		\$90,734		\$0		
Gas Balancing Service Charge	Therms	74,832,158		\$52,383		\$74,832		\$22,450		
Total Gas Revenue				\$4,409,033		\$4,431,483		\$22,450	0.5%	
Total Revenues				\$12,901,907		\$14,666,630		\$1,764,723	13.7%	

Schedule 86 - Sales										
Basic Charge	Bills	2,662	\$139.36	\$370,915	\$148.82	\$396,093		\$25,178		
Demand Charge	Demand	82,401	\$1.22	\$100,530	\$1.35	\$111,242		\$10,712		
Procurement Charge	Therms	8,752,637	\$0.00907	\$79,386	\$0.00883	\$77,286		(\$2,101)		
Minimum Bills				\$35,298		\$35,298		\$0		
Delivery Charge:										
First 1,000 therms	Therms	2,054,251	\$0.19274	\$395,936	\$0.18773	\$385,645		(\$10,292)		-2.599%
All over 1,000 therms	Therms	6,698,386	\$0.13664	\$915,267	\$0.13309	\$891,488		(\$23,779)		-2.598%
Total Delivery Charges	Therms	8,752,637		\$1,897,332		\$1,897,051		(\$281)	0.0%	
Gas Revenue (Schedule 101) (1)										
Volumetric Charge	Therms	8,752,637	\$0.26796	\$2,345,357	\$0.26796	\$2,345,357		\$0		
Demand Charge	Demand	82,401	\$1.05	\$86,521	\$1.05	\$86,521		\$0		
Total Gas Revenue				\$2,431,878		\$2,431,878		\$0	0.0%	
Total Revenues				\$4,329,210		\$4,328,929		(\$281)	0.0%	

TARGET 86/86T
\$0
over (under)
\$21

6.788%
10.656%
-2.646%

-2.6010%

-2.599%
-2.598%

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 86 - Transportation										
Basic Charge	Bills	22	\$443.44	\$9,770	\$457.76	\$10,086	\$316			3.229%
Demand Charge	Demand	9,750	\$1.22	\$11,895	\$1.35	\$13,163	\$1,268			10.656%
Minimum Bills				\$0		\$0	\$0			
Delivery Charge:										
First 1,000 therms	Therms	23,012	\$0.19274	\$4,435	\$0.18773	\$4,320	(\$115)			-2.599%
All over 1,000 therms	Therms	328,276	\$0.13664	\$44,856	\$0.13309	\$43,690	(\$1,165)			-2.598%
Total Delivery Charges	Therms	351,288		\$70,956		\$71,259	\$302			
Gas Balancing Service Charge	Therms	351,288	\$0.00070	\$246	\$0.00100	\$351	\$105			
Total Revenues				\$71,202		\$71,610	\$408			
Schedule 86 - Total										
Basic Charge	Bills	2,684		\$380,685		\$406,179	\$25,494			
Demand Charge	Demand	92,151		\$112,425		\$124,404	\$11,980			
Procurement Charge	Therms	8,752,637		\$79,386		\$77,286	(\$2,101)			
Minimum Bills				\$35,298		\$35,298	\$0			
Delivery Charge:										
First 1,000 therms	Therms	2,077,263		\$400,372		\$389,965	(\$10,407)			
All over 1,000 therms	Therms	7,026,662		\$960,123		\$935,178	(\$24,945)			
Total Delivery Charges	Therms	9,103,925		\$1,968,288		\$1,968,309	\$21	0.0%		
Gas Revenue (Schedule 101) (1)										
Volumetric Charge	Therms	9,103,925		\$2,345,357		\$2,345,357	\$0			
Demand Charge	Demand	92,151		\$86,521		\$86,521	\$0			
Gas Balancing Service Charge	Therms	9,103,925		\$246		\$351	\$105			
Total Gas Revenue				\$2,432,124		\$2,432,229	\$105	0.0%		
Total Revenues				\$4,400,412		\$4,400,539	\$127	0.0%		

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 87 - Sales										
Basic Charge	Bills	60	\$557.39	\$33,457	\$606.50	\$36,405	\$2,948		TARGET 87/87T \$1,416,494 over (under) (\$56)	8.811%
Demand Charge	Demand	0	\$1.38	\$0	\$1.45	\$0	\$0			5.072%
Procurement Charge		22,881,724	\$0.00594	\$135,917	\$0.00800	\$183,054	\$47,136			34.680%
Minimum Bills				\$34,828		\$34,828	\$0		34.7000%	
Delivery Charge:										
First 25,000 Therms	Therms	1,500,625	\$0.13910	\$208,737	\$0.18737	\$281,172	\$72,435			34.702%
Next 25,000 Therms	Therms	1,470,839	\$0.08406	\$123,639	\$0.11323	\$166,543	\$42,904			34.701%
Next 50,000 Therms	Therms	2,603,460	\$0.05349	\$139,259	\$0.07205	\$187,579	\$48,320			34.698%
Next 100,000 therms	Therms	3,197,117	\$0.03430	\$109,661	\$0.04620	\$147,707	\$38,046			34.694%
Next 300,000 therms	Therms	3,739,137	\$0.02468	\$92,282	\$0.03324	\$124,289	\$32,007			34.684%
All over 500,000 therms	Therms	10,370,546	\$0.01903	\$197,351	\$0.02563	\$265,797	\$68,446			34.682%
Total Delivery Charges	Therms	22,881,724		\$1,075,132		\$1,427,374	\$352,242	32.8%		
Gas Revenue (Schedule 101) (1)										
Volumetric Charge	Therms	22,881,724	\$0.27044	\$6,188,133	\$0.27044	\$6,188,133	\$0			
Demand Charge	Demand	0	\$1.05	\$0	\$1.05	\$0	\$0			
Total Gas Revenue				\$6,188,133		\$6,188,133	\$0	0.0%		
Total Revenues				\$7,263,265		\$7,615,508	\$352,242	4.8%		
Schedule 87 - Transportation										
Basic Charge	Bills	119	\$891.83	\$105,920	\$918.31	\$109,065	\$3,145			2.969%
Demand Charge	Demand	308,558	\$1.38	\$425,810	\$1.45	\$447,409	\$21,599			5.072%
Minimum Bills				\$0		\$0	\$0			
Delivery Charge:										
First 25,000 Therms	Therms	3,000,000	\$0.13910	\$417,300	\$0.18737	\$562,110	\$144,810			34.702%
Next 25,000 Therms	Therms	3,000,000	\$0.08406	\$252,180	\$0.11323	\$339,690	\$87,510			34.701%
Next 50,000 Therms	Therms	5,983,755	\$0.05349	\$320,071	\$0.07205	\$431,130	\$111,059			34.698%
Next 100,000 therms	Therms	11,737,513	\$0.03430	\$402,597	\$0.04620	\$542,273	\$139,676			34.694%
Next 300,000 therms	Therms	26,253,607	\$0.02468	\$647,939	\$0.03324	\$872,670	\$224,731			34.684%
All over 500,000 therms	Therms	50,252,432	\$0.01903	\$956,304	\$0.02563	\$1,287,970	\$331,666			34.682%
Total Delivery Charges		100,227,308		\$3,528,120		\$4,592,316	\$1,064,196	30.2%		
Gas Balancing Service Charge	Therms	100,227,308	\$0.00070	\$70,159	\$0.00100	\$100,227	\$30,068			
Total Revenues				\$3,598,279		\$4,692,543	\$1,094,264	30.4%		

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Schedule 87 - Total										
Basic Charge	Bills	179		\$139,377		\$145,470		\$6,093		
Demand Charge	Demand	308,558		\$425,810		\$447,409		\$21,599		
Procurement Charge				\$135,917		\$183,054		\$47,136		
Minimum Bills				\$34,828		\$34,828		\$0		
Delivery Charge:										
First 25,000 Therms	Therms	4,500,625		\$626,037		\$843,282		\$217,245		
Next 25,000 Therms	Therms	4,470,839		\$375,819		\$506,233		\$130,414		
Next 50,000 Therms	Therms	8,587,216		\$459,330		\$618,709		\$159,379		
Next 100,000 therms	Therms	14,934,629		\$512,258		\$689,980		\$177,722		
Next 300,000 therms	Therms	29,992,744		\$740,221		\$996,959		\$256,738		
All over 500,000 therms	Therms	60,622,978		\$1,153,655		\$1,553,767		\$400,112		
Total Delivery Charges	Therms	123,109,031		\$4,603,252		\$6,019,690		\$1,416,438	30.8%	
Gas Revenue (Schedule 101) (1)										
Volumetric Charge				\$6,188,133		\$6,188,133		\$0		
Demand Charge				\$0		\$0		\$0		
Gas Balancing Service Charge	Therms	100,227,308		\$70,159		\$100,227		\$30,068		
Total Gas Revenue				\$6,258,292		\$6,288,361		\$30,068	0.5%	
Total Revenues				\$10,861,545		\$12,308,051		\$1,446,506	13.3%	

Interruptible Summary

	Therms	Current	Proposed	Change
Total Gas (Schedule 101) Revenues				
Schedules 85, 85T		\$4,409,033	\$4,431,483	\$22,450
Schedules 86, 86T		\$2,432,124	\$2,432,229	\$105
Schedules 87, 87T		\$6,258,292	\$6,288,361	\$30,068
Total		\$13,099,450	\$13,152,073	\$52,623
Total Margin Revenues				
Schedules 85, 85T		\$8,492,873	\$10,235,147	\$1,742,273
Schedules 86, 86T		\$1,968,288	\$1,968,309	\$21
Schedules 87, 87T		\$4,603,252	\$6,019,690	\$1,416,438
Total		\$15,064,414	\$18,223,147	\$3,158,733
Total Revenue				
Schedules 85, 85T	90,620,157	\$12,901,907	\$14,666,630	\$1,764,723
Schedules 86, 86T	9,103,925	\$4,400,412	\$4,400,539	\$127
Schedules 87, 87T	123,109,031	\$10,861,545	\$12,308,051	\$1,446,506
Total	222,833,113	\$28,163,863	\$31,375,219	\$3,211,356

Puget Sound Energy
2019 Gas General Rate Case Filing
Current and Proposed Rates by Rate Schedule (Schedules 85, 85T, 86, 86T, 87 & 87T)
Test Year Ended December 31, 2018

Description	Units	Billing Determinants	Current		Proposed		Difference		Target Increase	Resulting Percent
			Rates	Revenues	Rates	Revenues	\$	%		
Total Summary										
Total		1,154,896,231		\$750,238,953		\$848,785,175		\$98,546,222		13.1%
Plus Contracts		37,090,867		1,719,216		1,757,818		\$38,603		2.2%
Plus Rentals				5,310,381		4,665,850		(\$644,531)		-12.1%
Grand Total		1,191,987,098		\$757,268,549		\$855,208,843		\$97,940,294		12.9%

(1) Schedule 101 rates in effective November 1, 2018

Check	-	0.03
Check	-	\$0

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Calendarized Volume (Therms)										
Residential lamps	16	798	724	836	822	819	776	813	791	794
Residential	23	85,104,432	80,987,939	75,376,979	47,865,394	24,076,170	17,720,710	13,445,152	13,243,857	20,690,219
Propane	53	57	8	0	0	0	0	0	0	0
General service - commercial	31	28,406,290	26,930,630	25,554,926	17,577,729	10,860,039	8,913,208	7,744,333	7,814,836	9,638,897
Large volume - commercial	41	6,582,986	6,376,976	6,238,487	4,791,691	3,331,563	2,788,619	2,291,090	2,322,665	2,861,816
Emergency Compressed Nature Gas Service	50	0	0	0	0	0	0	0	0	0
Interruptible with firm option - com	85	1,710,516	1,579,737	1,642,259	1,243,655	920,235	733,126	646,477	706,237	840,775
Limited interrupt w/ firm option - com	86	1,186,743	1,096,746	1,108,344	835,353	473,407	313,207	213,504	207,293	346,636
Non-exclus interrupt/firm option - com	87	2,488,073	2,506,046	2,429,944	2,066,251	1,485,710	1,430,551	1,280,281	1,275,025	1,372,716
General service - industrial	31	1,964,847	1,883,109	1,683,126	1,065,369	562,256	430,018	369,763	382,879	535,010
Large volume - industrial	41	946,436	901,078	919,255	811,446	700,123	670,895	638,238	644,626	662,632
Interruptible with firm option - ind	85	152,783	144,144	145,397	149,689	126,714	113,441	104,799	112,356	110,713
Limited interrupt w/ firm option - ind	86	17,702	18,723	17,030	21,971	11,132	8,571	6,458	7,712	16,208
Non-excl interrupt w/ firm option - ind	87	0	0	0	0	0	0	0	0	0
Trans. - commercial	31T	2,357	2,713	2,241	1,515	975	955	799	839	1,048
Trans. large volume - commercial	41T	1,255,972	1,219,491	1,249,376	1,121,320	1,056,153	1,066,639	1,034,134	1,072,056	1,024,131
Trans. interrupt with firm option - com	85T	2,118,212	2,005,289	2,104,201	1,832,042	1,801,033	1,732,174	1,682,576	1,684,576	1,685,125
Trans. non-exclus inter w/ firm option - com	87T	1,951,460	1,961,094	1,857,443	1,599,861	1,278,690	1,168,041	1,014,528	1,093,444	1,127,082
Trans. - industrial	31T	2,531	3,906	2,821	1,981	596	27	0	0	0
Trans. large volume - industrial	41T	587,042	560,063	653,292	562,059	533,050	518,939	498,241	524,996	494,199
Trans. interrupt with firm option - ind	85T	4,463,633	4,116,771	4,871,481	4,319,937	4,256,767	4,233,783	4,106,046	4,244,638	4,278,513
Trans. limited interrupt w/ firm option - ind	86T	49,344	52,604	40,826	24,786	18,363	20,943	16,364	13,568	18,972
Trans. non-exclus inter w/ firm option - ind	87T	6,317,282	6,906,246	7,685,172	6,615,628	6,953,514	6,482,373	7,603,946	7,599,367	6,557,927
Special contracts - ind	SC	4,032,428	4,114,898	3,806,411	3,156,368	2,317,402	2,136,885	1,816,114	1,897,096	2,160,926
Total sales & transportation volume		149,341,924	143,368,935	137,389,844	95,664,865	60,764,711	50,483,882	44,513,655	44,848,857	54,424,340
Subtotal transportation		20,780,260	20,943,077	22,273,262	19,235,496	18,216,544	17,360,759	17,772,747	18,130,580	17,347,923

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Calendarized Volume (Therms)					
Residential lamps	16	846	671	655	9,344
Residential	23	42,558,824	66,477,180	84,527,896	572,074,751
Propane	53	0	0	0	64
General service - commercial	31	15,331,465	22,131,530	28,131,199	209,035,080
Large volume - commercial	41	4,195,812	5,387,399	6,479,350	53,648,452
Emergency Compressed Nature Gas Service	50	0	0	0	0
Interruptible with firm option - com	85	1,111,617	1,379,652	1,648,220	14,162,505
Limited interrupt w/ firm option - com	86	669,628	911,643	1,140,252	8,502,756
Non-exclus interrupt/firm option - com	87	1,747,771	2,133,442	2,585,495	22,801,307
General service - industrial	31	946,105	1,460,899	1,858,886	13,142,269
Large volume - industrial	41	795,181	876,759	898,129	9,464,798
Interruptible with firm option - ind	85	127,996	132,757	148,062	1,568,850
Limited interrupt w/ firm option - ind	86	24,309	21,356	20,285	191,458
Non-excl interrupt w/ firm option - ind	87	0	0	0	0
Trans. - commercial	31T	1,467	2,140	2,461	19,509
Trans. large volume - commercial	41T	1,214,628	1,262,887	1,392,881	13,969,669
Trans. interrupt with firm option - com	85T	1,955,499	1,997,482	2,140,110	22,738,318
Trans. non-exclus inter w/ firm option - com	87T	1,437,828	1,539,689	1,913,417	17,942,576
Trans. - industrial	31T	0	0	0	11,862
Trans. large volume - industrial	41T	563,273	523,358	470,635	6,489,148
Trans. interrupt with firm option - ind	85T	4,815,407	4,153,525	3,916,195	51,776,696
Trans. limited interrupt w/ firm option - ind	86T	33,141	34,143	28,235	351,288
Trans. non-exclus inter w/ firm option - ind	87T	6,548,147	5,492,949	6,991,470	81,754,020
Special contracts - ind	SC	2,895,916	3,341,001	3,972,972	35,648,418
Total sales & transportation volume		86,974,859	119,260,461	148,266,804	1,135,303,138
Subtotal transportation		19,465,306	18,347,174	20,828,376	230,701,503

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Customer Counts										
Residential lamps	16	7	6	6	6	6	7	7	7	7
Residential	23	768,037	769,182	769,904	770,294	770,940	771,256	771,472	772,026	772,614
Propane	53	1	0	0	0	0	0	0	0	0
Standby & auxiliary heating - res	61	0	0	0	0	0	0	0	0	0
General service - commercial	31	54,410	54,413	54,486	54,455	54,442	54,374	54,349	54,342	54,331
Large volume - commercial	41	1,289	1,284	1,287	1,290	1,288	1,280	1,243	1,230	1,230
Emergency Compressed Nature Gas Service	50	0	0	0	0	0	0	0	0	0
Standby & auxiliary heating - com	61	0	0	0	0	0	0	0	0	0
Interruptible with firm option - com	85	25	25	25	25	25	24	24	24	24
Limited interrupt w/ firm option - com	86	222	222	222	222	221	221	220	220	220
Non-excl interrupt w/ firm option - com	87	5	5	5	5	5	5	5	5	5
General service - industrial	31	2,248	2,248	2,252	2,245	2,242	2,235	2,232	2,223	2,218
Large volume - industrial	41	73	73	73	73	73	72	72	72	71
Standby & auxiliary heating - ind	61	0	0	0	0	0	0	0	0	0
Interruptible with firm option - ind	85	4	4	4	4	4	4	4	4	4
Limited interrupt w/ firm option - ind	86	6	6	6	6	6	6	6	6	6
Non-excl interrupt w/ firm option - ind	87	0	0	0	0	0	0	0	0	0
Trans. - commercial	31T	2	2	2	2	2	2	3	2	2
Trans. large volume - commercial	41T	77	79	79	80	81	85	84	84	84
Trans. interrupt with firm option - com	85T	33	33	33	33	33	33	33	33	33
Trans. limited interrupt w/ firm option - com	86T	0	0	0	0	0	0	0	0	0
Trans. non-exclus inter w/ firm option - com	87T	3	3	3	3	3	3	3	3	3
Trans. - industrial	31T	1	1	1	1	1	1	0	0	0
Trans. large volume - industrial	41T	26	26	26	25	24	24	25	25	25
Trans. interrupt with firm option - ind	85T	68	68	68	68	69	70	70	70	70
Trans. limited interrupt w/ firm option - ind	86T	2	2	2	2	2	2	2	2	2
Trans. non-exclus inter w/ firm option - ind	87T	7	7	7	7	7	7	7	7	7
Special contracts - ind	SC	10	10	10	10	10	10	10	10	10
Total		826,556	827,699	828,501	828,856	829,484	829,721	829,871	830,395	830,966

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Customer Counts					
Residential lamps	16	8	7	6	80
Residential	23	774,702	776,863	778,192	9,265,482
Propane	53	0	0	0	1
Standby & auxiliary heating - res	61	0	0	0	0
General service - commercial	31	54,478	54,612	54,744	653,436
Large volume - commercial	41	1,237	1,245	1,247	15,150
Emergency Compressed Nature Gas Service	50	0	0	0	0
Standby & auxiliary heating - com	61	0	0	0	0
Interruptible with firm option - com	85	24	24	24	293
Limited interrupt w/ firm option - com	86	220	217	213	2,640
Non-excl interrupt w/ firm option - com	87	5	5	5	60
General service - industrial	31	2,221	2,230	2,232	26,826
Large volume - industrial	41	71	73	72	868
Standby & auxiliary heating - ind	61	0	0	0	0
Interruptible with firm option - ind	85	4	4	4	48
Limited interrupt w/ firm option - ind	86	6	6	6	72
Non-excl interrupt w/ firm option - ind	87	0	0	0	0
Trans. - commercial	31T	2	2	2	25
Trans. large volume - commercial	41T	84	82	82	981
Trans. interrupt with firm option - com	85T	33	33	33	396
Trans. limited interrupt w/ firm option - com	86T	0	0	1	1
Trans. non-exclus inter w/ firm option - com	87T	3	3	3	36
Trans. - industrial	31T	0	0	0	6
Trans. large volume - industrial	41T	25	24	24	299
Trans. interrupt with firm option - ind	85T	70	70	70	831
Trans. limited interrupt w/ firm option - ind	86T	2	2	2	24
Trans. non-exclus inter w/ firm option - ind	87T	7	7	7	84
Special contracts - ind	SC	10	10	10	120
Total		833,212	835,519	836,979	9,967,759

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Usage Per Customer (Therms)										
Residential	23	111	105	98	62	31	23	17	17	27
General service - commercial	31	522	495	469	323	199	164	142	144	177
Large volume - commercial	41	5,107	4,966	4,847	3,714	2,587	2,179	1,843	1,888	2,327
Large volume - industrial	41	12,965	12,344	12,593	11,116	9,591	9,318	8,864	8,953	9,333
Trans. large volume - commercial	41T	16,311	15,437	15,815	14,016	13,039	12,549	12,311	12,763	12,192
Trans. interrupt with firm option - com	85T	64,188	60,766	63,764	55,516	54,577	52,490	50,987	51,048	51,064
Trans. non-exclus inter w/ firm option - com	87T	650,487	653,698	619,148	533,287	426,230	389,347	338,176	364,481	375,694
Interruptible with firm option - com	85	68,421	63,189	65,690	49,746	36,809	30,547	26,937	29,427	35,032
Limited interrupt w/ firm option - com	86	5,346	4,940	4,993	3,763	2,142	1,417	970	942	1,576
Non-excl interrupt w/ firm option - com	87	497,615	501,209	485,989	413,250	297,142	286,110	256,056	255,005	274,543
General service - industrial	31	874	838	747	475	251	192	166	172	241
Trans. General service - industrial	31T	2,531	3,906	2,821	1,981	596	27	0	0	0
Special contracts - ind	SC	403,243	411,490	380,641	315,637	231,740	213,689	181,611	189,710	216,093
Weather Data										
Actual heating degree days (HDD)		629	673	589	419	172	125	17	25	117
Normal heating degree days (HDD)		723	617	592	450	297	163	57	48	137
Difference (actual - normal HDD)		-95	56	-3	-31	-124	-38	-40	-22	-20
Weather Normalization Coefficients										
Residential	23	0.142589	0.135672	0.124869	0.097505	0.077024	0.049308	-	-	0.061267
General service - commercial	31	0.530047	0.483022	0.442668	0.309646	0.204967	-	-	-	-
Large volume - commercial	41	4.423234	4.096090	4.255017	3.316930	3.085182	2.372405	-	-	1.886956
Trans. large volume - commercial	41T	6.245014	5.584304	6.601832	4.430010	3.140245	-	-	-	-
Trans. interrupt with firm option - com	85T	25.863020	17.022880	23.357070	17.929850	18.489040	15.670390	-	-	-
Trans. non-exclus inter w/ firm option - com	87T	498.617700	416.053400	437.855600	350.514500	357.574600	231.974400	-	-	-
Interruptible with firm option - com	85	54.698980	51.855840	54.701530	47.905470	41.308880	-	-	-	-
Limited interrupt w/ firm option - com	86	6.306381	6.331225	6.477360	5.619127	5.451611	4.064739	-	-	3.822363
Non-excl interrupt w/ firm option - com	87	365.734700	312.016800	327.769800	283.701800	241.943600	-	-	-	-
General service - industrial	31	1.024623	0.963366	0.875636	0.624408	0.460654	0.267515	-	-	0.364275
Large volume - industrial	41	4.761362	3.707606	5.633764	3.607056	2.986578	-	-	-	-
	SC	366.296600	343.179700	353.948800	310.798800	284.052500	242.886800	-	-	191.566100

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Usage Per Customer (Therms)					
Residential	23	55	86	109	741
General service - commercial	31	281	405	514	3,836
Large volume - commercial	41	3,392	4,327	5,196	42,374
Large volume - industrial	41	11,200	12,010	12,474	130,760
Trans. large volume - commercial	41T	14,460	15,401	16,986	171,280
Trans. interrupt with firm option - com	85T	59,258	60,530	64,852	689,040
Trans. non-exclus inter w/ firm option - com	87T	479,276	513,230	637,806	5,980,859
Interruptible with firm option - com	85	46,317	57,485	68,676	578,277
Limited interrupt w/ firm option - com	86	3,044	4,201	5,353	38,687
Non-excl interrupt w/ firm option - com	87	349,554	426,688	517,099	4,560,261
General service - industrial	31	426	655	833	5,870
Trans. General service - industrial	31T	0	0	0	11,862
Special contracts - ind	SC	289,592	334,100	397,297	3,564,842
Weather Data					
Actual heating degree days (HDD)		366	494	653	4,278
Normal heating degree days (HDD)		386	584	748	4,800
Difference (actual - normal HDD)		-20	-90	-94	-522
Weather Normalization Coefficients					
Residential	23	0.103350	0.131090	0.140386	
General service - commercial	31	0.286029	0.439966	0.517904	
Large volume - commercial	41	3.332477	3.963417	4.302514	
Trans. large volume - commercial	41T	4.907023	5.095238	5.999064	
Trans. interrupt with firm option - com	85T	19.421810	20.552880	25.147640	
Trans. non-exclus inter w/ firm option - com	87T	292.326000	405.238600	489.973100	
Interruptible with firm option - com	85	42.228180	47.382180	51.544720	
Limited interrupt w/ firm option - com	86	5.554151	5.970630	5.991973	
Non-excl interrupt w/ firm option - com	87	262.266000	312.301400	353.040900	
General service - industrial	31	0.622251	0.844629	0.981571	
Large volume - industrial	41	4.887119	4.120049	4.208282	
	SC	304.528200	327.966600	325.367500	

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Weather Normalized Usage per Customer (Therms)										
Residential	23	124	98	98	65	41	25	17	17	28
General service - commercial	31	572	468	470	332	225	164	142	144	177
Large volume - commercial	41	5,525	4,739	4,861	3,818	2,970	2,268	1,843	1,888	2,365
Trans. large volume - commercial	41T	16,902	15,126	15,836	14,154	13,429	12,549	12,311	12,763	12,192
Trans. interrupt with firm option - com	85T	66,632	59,820	63,837	56,074	56,873	53,081	50,987	51,048	51,064
Trans. non-exclus inter w/ firm option - com	87T	697,609	630,567	620,526	544,190	470,642	398,087	338,176	364,481	375,694
Interruptible with firm option - com	85	73,590	60,306	65,863	51,236	41,940	30,547	26,937	29,427	35,032
Limited interrupt w/ firm option - com	86	5,942	4,588	5,013	3,938	2,819	1,570	970	942	1,652
Non-excl interrupt w/ firm option - com	87	532,179	483,862	487,020	422,075	327,192	286,110	256,056	255,005	274,543
General service - industrial	31	971	784	750	494	308	202	166	172	249
Large volume - industrial	41	13,415	12,137	12,610	11,228	9,962	9,318	8,864	8,953	9,333
Trans. General service - industrial	31T	2,628	3,852	2,824	2,000	653	38	0	0	0
Special contracts - ind	SC	437,860	392,410	381,755	325,304	267,020	222,839	181,611	189,710	219,942
Weather Normalized Volume - Rate Class Analysis (Therms)										
Residential	23	95,454,078	75,186,009	75,679,543	50,201,655	31,451,440	19,153,456	13,445,152	13,243,857	21,641,339
General service - commercial	31	31,131,817	25,469,386	25,630,835	18,102,224	12,245,994	8,913,208	7,744,333	7,814,836	9,638,897
Large volume - commercial	41	7,121,814	6,084,569	6,255,722	4,924,786	3,825,109	2,903,026	2,291,090	2,322,665	2,908,451
Trans. large volume - commercial	41T	1,301,417	1,194,964	1,251,017	1,132,344	1,087,745	1,066,639	1,034,134	1,072,056	1,024,131
Trans. interrupt with firm option - com	85T	2,198,870	1,974,057	2,106,626	1,850,447	1,876,814	1,751,657	1,682,576	1,684,576	1,685,125
Trans. non-exclus inter w/ firm option - com	87T	2,092,826	1,891,700	1,861,577	1,632,570	1,411,925	1,194,260	1,014,528	1,093,444	1,127,082
Interruptible with firm option - com	85	1,839,750	1,507,661	1,646,563	1,280,908	1,048,502	733,126	646,477	706,237	840,775
Limited interrupt w/ firm option - com	86	1,319,053	1,018,602	1,112,870	874,155	623,047	347,051	213,504	207,293	363,533
Non-excl interrupt w/ firm option - com	87	2,660,893	2,419,309	2,435,102	2,110,374	1,635,961	1,430,551	1,280,281	1,275,025	1,372,716
General service - industrial	31	2,182,527	1,762,705	1,689,332	1,108,973	690,531	452,544	369,763	382,879	551,244
Large volume - industrial	41	979,284	886,030	920,549	819,637	727,202	670,895	638,238	644,626	662,632
Trans. General service - industrial	31T	2,628	3,852	2,824	2,000	653	38	0	0	0
Special contracts - ind	SC	4,378,598	3,924,100	3,817,550	3,253,044	2,670,203	2,228,393	1,816,114	1,897,096	2,199,417
Total weather normalized portion of volume		152,663,556	123,322,945	124,410,111	87,293,117	59,295,127	40,844,842	32,176,190	32,344,589	44,015,343

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Weather Normalized Usage per Customer (Therms)					
Residential	23	57	97	122	790
General service - commercial	31	287	445	563	3,990
Large volume - commercial	41	3,457	4,684	5,602	44,019
Trans. large volume - commercial	41T	14,556	15,860	17,552	173,229
Trans. interrupt with firm option - com	85T	59,639	62,379	67,225	698,660
Trans. non-exclus inter w/ firm option - com	87T	485,021	549,696	684,044	6,158,731
Interruptible with firm option - com	85	47,147	61,749	73,540	597,314
Limited interrupt w/ firm option - com	86	3,153	4,738	5,919	41,245
Non-excl interrupt w/ firm option - com	87	354,708	454,791	550,415	4,683,958
General service - industrial	31	438	731	925	6,191
Large volume - industrial	41	11,296	12,381	12,871	132,369
Trans. General service - industrial	31T	0	0	0	11,995
Special contracts - ind	SC	295,576	363,613	428,002	3,705,643
Weather Normalized Volume - Rate Class Analysis (Therms)					
Residential	23	44,132,332	75,641,343	94,837,500	610,067,706
General service - commercial	31	15,637,700	24,293,681	30,806,774	217,429,684
Large volume - commercial	41	4,276,826	5,831,435	6,985,664	55,731,156
Trans. large volume - commercial	41T	1,222,729	1,300,485	1,439,303	51,795,568
Trans. interrupt with firm option - com	85T	1,968,095	2,058,515	2,218,424	580,586,518
Trans. non-exclus inter w/ firm option - com	87T	1,455,063	1,649,087	2,052,133	18,476,194
Interruptible with firm option - com	85	1,131,535	1,481,982	1,764,961	14,628,477
Limited interrupt w/ firm option - com	86	693,642	1,028,232	1,260,695	9,061,677
Non-excl interrupt w/ firm option - com	87	1,773,542	2,273,957	2,752,077	23,419,789
General service - industrial	31	973,266	1,630,391	2,065,637	13,859,793
Large volume - industrial	41	802,000	903,824	926,723	9,581,640
Trans. General service - industrial	31T	0	0	0	11,995
Special contracts - ind	SC	2,955,764	3,636,128	4,280,020	37,056,428
Total weather normalized portion of volume		77,022,494	121,729,060	151,389,911	1,046,507,285

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Weather Adjustment to Volume - Rate Class Analysis (Therms)										
Residential	23	10,349,646	-5,801,929	302,565	2,336,261	7,375,271	1,432,746	0	0	951,120
General service - commercial	31	2,725,527	-1,461,244	75,909	524,495	1,385,956	0	0	0	0
Large volume - commercial	41	538,828	-292,407	17,235	133,096	493,546	114,407	0	0	46,635
Trans. large volume - commercial	41T	45,445	-24,527	1,641	11,024	31,592	0	0	0	0
Trans. interrupt with firm option - com	85T	80,659	-31,232	2,426	18,405	75,781	19,483	0	0	0
Trans. non-exclus inter w/ firm option - com	87T	141,366	-69,394	4,134	32,709	133,235	26,219	0	0	0
Interruptible with firm option - com	85	129,234	-72,076	4,304	37,253	128,267	0	0	0	0
Limited interrupt w/ firm option - com	86	132,309	-78,144	4,526	38,803	149,640	33,844	0	0	16,897
Non-excl interrupt w/ firm option - com	87	172,820	-86,736	5,158	44,124	150,250	0	0	0	0
General service - industrial	31	217,680	-120,404	6,206	43,604	128,275	22,526	0	0	16,234
Large volume - industrial	41	32,848	-15,048	1,294	8,191	27,079	0	0	0	0
Trans. General service - industrial	31T	97	-54	3	19	57	10	0	0	0
Special contracts - ind	SC	346,171	-190,798	11,140	96,676	352,801	91,508	0	0	38,491
Total adjustment		14,912,629	-8,243,993	436,540	3,324,657	10,431,750	1,740,742	0	0	1,069,377
Percent change		10%	-6%	0%	3%	17%	3%	0%	0%	2%
Weather Adjustment by Group - System Level Analysis (Therms)										
Firm		16,245,071	-10,094,134	630,373	3,139,156	8,688,223	1,709,352	0	0	1,067,915
Interruptible		236,312	-142,540	5,630	22,930	0	0	0	0	0
Transportation		728,746	-409,771	12,863	180,404	488,124	130,562	0	0	76,403
Total adjustment		17,210,130	-10,646,445	648,867	3,342,490	9,176,347	1,839,914	0	0	1,144,318

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Weather Adjustment to Volume - Rate Class Analysis (Therms)					
Residential	23	1,573,509	9,164,164	10,309,603	37,992,955
General service - commercial	31	306,235	2,162,151	2,675,575	8,394,604
Large volume - commercial	41	81,014	444,036	506,314	2,082,704
Trans. large volume - commercial	41T	8,101	37,597	46,423	157,295
Trans. interrupt with firm option - com	85T	12,596	61,033	78,315	317,464
Trans. non-exclus inter w/ firm option - com	87T	17,235	109,398	138,715	533,618
Interruptible with firm option - com	85	19,918	102,331	116,742	465,972
Limited interrupt w/ firm option - com	86	24,014	116,589	120,443	558,921
Non-excl interrupt w/ firm option - com	87	25,771	140,515	166,581	618,483
General service - industrial	31	27,161	169,492	206,751	717,524
Large volume - industrial	41	6,819	27,065	28,594	116,842
Trans. General service - industrial	31T	0	0	0	133
Special contracts - ind	SC	59,848	295,127	307,048	1,408,010
Total adjustment		2,162,220	12,829,498	14,701,104	53,364,524
Percent change		2%	11%	10%	5%
Weather Adjustment by Group - System Level Analysis (Therm					
Firm		2,175,034	14,656,764	15,822,092	54,039,846
Interruptible		24,556	48,594	0	195,483
Transportation		79,407	703,676	458,214	2,448,629
Total adjustment		2,278,997	15,409,033	16,280,307	56,683,958

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Weather Adjustment to Volume - System Level Analysis Spread to Rate Classes (Therms)										
Residential	23	12,126,683	-7,614,772	473,028	2,407,991	6,809,472	1,560,235	0	0	1,001,702
General service - commercial	31	3,193,500	-1,917,817	118,675	540,598	1,279,631	0	0	0	0
Large volume - commercial	41	631,345	-383,771	26,945	137,182	455,684	124,587	0	0	49,115
Trans. large volume - commercial	41T	53,960	-31,805	1,092	12,521	25,984	0	0	0	0
Trans. interrupt with firm option - com	85T	95,773	-40,499	1,613	20,904	62,330	18,537	0	0	0
Trans. non-exclus inter w/ firm option - com	87T	167,857	-89,985	2,749	37,151	109,586	24,947	0	0	0
Interruptible with firm option - com	85	70,309	-43,357	1,732	7,108	0	0	0	0	0
Limited interrupt w/ firm option - com	86	71,982	-47,007	1,822	7,404	0	0	0	0	0
Non-excl interrupt w/ firm option - com	87	94,022	-52,176	2,076	8,419	0	0	0	0	0
General service - industrial	31	255,055	-158,025	9,703	44,942	118,434	24,530	0	0	17,098
Large volume - industrial	41	38,488	-19,749	2,024	8,442	25,001	0	0	0	0
Trans. General service - industrial	31T	115	-69	2	22	47	10	0	0	0
Special contracts - ind	SC	411,040	-247,412	7,408	109,805	290,178	87,068	0	0	76,403
Total adjustment		17,210,129	-10,646,444	648,869	3,342,489	9,176,347	1,839,914	0	0	1,144,318
Percent change		12%	-7%	0%	3%	15%	4%	0%	0%	2%
Weather Normalized Volume - System Level Analysis (Therms)										
Residential	23	97,231,115	73,373,167	75,850,007	50,273,385	30,885,642	19,280,945	13,445,152	13,243,857	21,691,921
General service - commercial	31	31,599,790	25,012,813	25,673,601	18,118,327	12,139,670	8,913,208	7,744,333	7,814,836	9,638,897
Large volume - commercial	41	7,214,331	5,993,205	6,265,432	4,928,873	3,787,247	2,913,206	2,291,090	2,322,665	2,910,931
Trans. large volume - commercial	41T	1,309,932	1,187,686	1,250,468	1,133,841	1,082,137	1,066,639	1,034,134	1,072,056	1,024,131
Trans. interrupt with firm option - com	85T	2,213,985	1,964,790	2,105,814	1,852,946	1,863,363	1,750,711	1,682,576	1,684,576	1,685,125
Trans. non-exclus inter w/ firm option - com	87T	2,119,317	1,871,109	1,860,192	1,637,012	1,388,276	1,192,988	1,014,528	1,093,444	1,127,082
Interruptible with firm option - com	85	1,780,825	1,536,380	1,643,991	1,250,763	920,235	733,126	646,477	706,237	840,775
Limited interrupt w/ firm option - com	86	1,258,725	1,049,739	1,110,166	842,757	473,407	313,207	213,504	207,293	346,636
Non-excl interrupt w/ firm option - com	87	2,582,095	2,453,870	2,432,020	2,074,670	1,485,710	1,430,551	1,280,281	1,275,025	1,372,716
General service - industrial	31	2,219,902	1,725,084	1,692,829	1,110,311	680,690	454,548	369,763	382,879	552,108
Large volume - industrial	41	984,924	881,329	921,279	819,888	725,124	670,895	638,238	644,626	662,632
Trans. General service - industrial	31T	2,646	3,837	2,823	2,003	643	37	0	0	0
Special contracts - ind	SC	4,443,468	3,867,486	3,813,819	3,266,173	2,607,580	2,223,953	1,816,114	1,897,096	2,237,329
Total weather normalized portion of volume		154,961,056	120,920,494	124,622,440	87,310,949	58,039,724	40,944,015	32,176,190	32,344,589	44,090,284

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Weather Adjustment to Volume - System Level Analysis Sprea					
Residential	23	1,715,731	11,224,034	11,883,254	41,587,358
General service - commercial	31	333,915	2,648,148	3,083,973	9,280,623
Large volume - commercial	41	88,337	543,844	583,598	2,256,866
Trans. large volume - commercial	41T	6,579	52,581	37,286	158,198
Trans. interrupt with firm option - com	85T	10,229	85,356	62,901	317,144
Trans. non-exclus inter w/ firm option - com	87T	13,997	152,996	111,414	530,712
Interruptible with firm option - com	85	7,017	13,835	0	56,644
Limited interrupt w/ firm option - com	86	8,460	15,762	0	58,423
Non-excl interrupt w/ firm option - com	87	9,079	18,997	0	80,417
General service - industrial	31	29,615	207,590	238,309	787,251
Large volume - industrial	41	7,436	33,148	32,958	127,748
Trans. General service - industrial	31T	0	0	0	127
Special contracts - ind	SC	48,603	412,742	246,614	1,442,449
Total adjustment		2,278,998	15,409,033	16,280,307	56,683,960
Percent change		3%	13%	11%	5%
Weather Normalized Volume - System Level Analysis (Therms)					
Residential	23	44,274,555	77,701,214	96,411,150	613,662,109
General service - commercial	31	15,665,380	24,779,678	31,215,172	218,315,703
Large volume - commercial	41	4,284,149	5,931,243	7,062,948	55,905,318
Trans. large volume - commercial	41T	1,221,207	1,315,468	1,430,167	14,127,867
Trans. interrupt with firm option - com	85T	1,965,728	2,082,838	2,203,011	23,055,462
Trans. non-exclus inter w/ firm option - com	87T	1,451,825	1,692,685	2,024,831	18,473,288
Interruptible with firm option - com	85	1,118,634	1,393,487	1,648,220	14,219,149
Limited interrupt w/ firm option - com	86	678,088	927,405	1,140,252	8,561,179
Non-excl interrupt w/ firm option - com	87	1,756,850	2,152,439	2,585,495	22,881,724
General service - industrial	31	975,720	1,668,489	2,097,195	13,929,520
Large volume - industrial	41	802,617	909,907	931,087	9,592,546
Trans. General service - industrial	31T	0	0	0	11,989
Special contracts - ind	SC	2,944,519	3,753,743	4,219,586	37,090,867
Total weather normalized portion of volume		77,139,271	124,308,595	152,969,114	1,049,826,721

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Residential lights	16	798	724	836	822	819	776	813	791	794
Propane	53	57	8	0	0	0	0	0	0	0
Emergency Compressed Nature Gas Service	50	0	0	0	0	0	0	0	0	0
Trans. - commercial	31T	2,357	2,713	2,241	1,515	975	955	799	839	1,048
Interruptible with firm option - ind	85	152,783	144,144	145,397	149,689	126,714	113,441	104,799	112,356	110,713
Limited interrupt w/ firm option - ind	86	17,702	18,723	17,030	21,971	11,132	8,571	6,458	7,712	16,208
Non-excl interrupt w/ firm option - ind	87	0	0	0	0	0	0	0	0	0
Trans. large volume - industrial	41T	587,042	560,063	653,292	562,059	533,050	518,939	498,241	524,996	494,199
Trans. interrupt with firm option - ind	85T	4,463,633	4,116,771	4,871,481	4,319,937	4,256,767	4,233,783	4,106,046	4,244,638	4,278,513
Trans. limited interrupt w/ firm option - ind	86T	49,344	52,604	40,826	24,786	18,363	20,943	16,364	13,568	18,972
Trans. non-exclus inter w/ firm option - ind	87T	6,317,282	6,906,246	7,685,172	6,615,628	6,953,514	6,482,373	7,603,946	7,599,367	6,557,927
Total other volume		11,590,997	11,801,997	13,416,273	11,696,405	11,901,334	11,379,781	12,337,465	12,504,268	11,478,374
Total weather normalized volume		166,552,053	132,722,491	138,038,713	99,007,354	69,941,058	52,323,796	44,513,655	44,848,857	55,568,658
Weather Adjustment by Rate Class (Therms)										
Residential (16)		0	0	0	0	0	0	0	0	0
Residential (23,53)		12,126,683	-7,614,772	473,028	2,407,991	6,809,472	1,560,235	0	0	1,001,702
Commercial & industrial (31)		3,448,555	-2,075,842	128,378	585,540	1,398,065	24,530	0	0	17,098
Large volume (41)		669,833	-403,520	28,969	145,624	480,685	124,587	0	0	49,115
Compressed natural gas (50)		0	0	0	0	0	0	0	0	0
Standby & auxiliary heating (61)		0	0	0	0	0	0	0	0	0
Interruptible (85)		70,309	-43,357	1,732	7,108	0	0	0	0	0
Limited interruptible (86)		71,982	-47,007	1,822	7,404	0	0	0	0	0
Non exclusive interruptible (87)		94,022	-52,176	2,076	8,419	0	0	0	0	0
Trans. General services (31T)		115	-69	2	22	47	10	0	0	0
Trans. large volume (41T)		53,960	-31,805	1,092	12,521	25,984	0	0	0	0
Trans. interrupt with firm option (85T)		95,773	-40,499	1,613	20,904	62,330	18,537	0	0	0
Trans. limited interrupt w/ firm option - ind (86T)		0	0	0	0	0	0	0	0	0
Trans. non-exclus inter w/firm option (87T)		167,857	-89,985	2,749	37,151	109,586	24,947	0	0	0
Contracts		411,040	-247,412	7,408	109,805	290,178	87,068	0	0	76,403
Total adjustment		17,210,129	-10,646,444	648,869	3,342,489	9,176,347	1,839,914	0	0	1,144,318
Check		-1	1	2	-1	-1	0	0	0	0

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Residential lights	16	846	671	655	9,344
Propane	53	0	0	0	64
Emergency Compressed Nature Gas Service	50	0	0	0	0
Trans. - commercial	31T	1,467	2,140	2,461	19,509
Interruptible with firm option - ind	85	127,996	132,757	148,062	1,568,850
Limited interrupt w/ firm option - ind	86	24,309	21,356	20,285	191,458
Non-excl interrupt w/ firm option - ind	87	0	0	0	0
Trans. large volume - industrial	41T	563,273	523,358	470,635	6,489,148
Trans. interrupt with firm option - ind	85T	4,815,407	4,153,525	3,916,195	51,776,696
Trans. limited interrupt w/ firm option - ind	86T	33,141	34,143	28,235	351,288
Trans. non-exclus inter w/ firm option - ind	87T	6,548,147	5,492,949	6,991,470	81,754,020
Total other volume		12,114,585	10,360,898	11,577,997	142,160,377
Total weather normalized volume		89,253,857	134,669,494	164,547,111	1,191,987,098
Weather Adjustment by Rate Class (Therms)					
Residential (16)		0	0	0	0
Residential (23,53)		1,715,731	11,224,034	11,883,254	41,587,358
Commercial & industrial (31)		363,530	2,855,738	3,322,282	10,067,874
Large volume (41)		95,773	576,992	616,556	2,384,614
Compressed natural gas (50)		0	0	0	0
Standby & auxiliary heating (61)		0	0	0	0
Interruptible (85)		7,017	13,835	0	56,644
Limited interruptible (86)		8,460	15,762	0	58,423
Non exclusive interruptible (87)		9,079	18,997	0	80,417
Trans. General services (31T)		0	0	0	127
Trans. large volume (41T)		6,579	52,581	37,286	158,198
Trans. interrupt with firm option (85T)		10,229	85,356	62,901	317,144
Trans. limited interrupt w/ firm option - ind (86T)		0	0	0	0
Trans. non-exclus inter w/firm option (87T)		13,997	152,996	111,414	530,712
Contracts		48,603	412,742	246,614	1,442,449
Total adjustment		2,278,998	15,409,033	16,280,307	56,683,960
Check		1	0	0	2

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Summary of Weather Normalized Volume by Rate Class (Therms)										
Residential (16)		798	724	836	822	819	776	813	791	794
Residential (23,53)		97,231,172	73,373,174	75,850,007	50,273,385	30,885,642	19,280,945	13,445,152	13,243,857	21,691,921
Commercial & industrial (31)		33,819,693	26,737,897	27,366,430	19,228,638	12,820,360	9,367,757	8,114,096	8,197,715	10,191,005
Large volume (41)		8,199,255	6,874,534	7,186,710	5,748,761	4,512,372	3,584,101	2,929,328	2,967,291	3,573,563
Compressed natural gas (50)		0	0	0	0	0	0	0	0	0
Standby & auxiliary heating (61)										
Interruptible (85)		1,933,608	1,680,524	1,789,388	1,400,452	1,046,948	846,567	751,275	818,593	951,488
Limited interruptible (86)		1,276,428	1,068,462	1,127,196	864,727	484,539	321,778	219,962	215,005	362,844
Non exclusive interruptible (87)		2,582,095	2,453,870	2,432,020	2,074,670	1,485,710	1,430,551	1,280,281	1,275,025	1,372,716
Trans. General services (31T)		5,003	6,550	5,064	3,518	1,618	992	799	839	1,048
Trans. large volume (41T)		1,896,974	1,747,749	1,903,760	1,695,900	1,615,187	1,585,578	1,532,375	1,597,052	1,518,330
Trans. interrupt with firm option (85T)		6,677,618	6,081,562	6,977,294	6,172,883	6,120,130	5,984,494	5,788,622	5,929,214	5,963,638
Trans. limited interrupt w/ firm option (86T)		49,344	52,604	40,826	24,786	18,363	20,943	16,364	13,568	18,972
Trans. non-exclus inter w/firm option (87T)		8,436,599	8,777,355	9,545,363	8,252,639	8,341,790	7,675,361	8,618,473	8,692,812	7,685,009
Contracts		4,443,468	3,867,486	3,813,819	3,266,173	2,607,580	2,223,953	1,816,114	1,897,096	2,237,329
Total sales and transport volume		166,552,053	132,722,491	138,038,713	99,007,354	69,941,058	52,323,796	44,513,655	44,848,857	55,568,658
Check		0	0	0	0	0	0	0	0	0
Summary of Customer Counts by Rate Groups										
Residential (16,23,53)		768,045	769,188	769,910	770,300	770,946	771,263	771,479	772,033	772,621
Commercial & industrial (31)		56,658	56,661	56,738	56,700	56,684	56,609	56,581	56,565	56,549
Large volume (41)		1,362	1,357	1,360	1,363	1,361	1,352	1,315	1,302	1,301
Compressed natural gas (50)		0	0	0	0	0	0	0	0	0
Standby service (61)		0	0	0	0	0	0	0	0	0
Interruptible (85)		29	29	29	29	29	28	28	28	28
Limited interruptible (86)		228	228	228	228	227	227	226	226	226
Non exclusive interruptible (87)		5	5	5	5	5	5	5	5	5
Trans. General services (31T)		3	3	3	3	3	3	3	2	2
Trans. large volume (41T)		103	105	105	105	105	109	109	109	109
Trans. interrupt with firm option (85T)		101	101	101	101	102	103	103	103	103
Trans. limited interrupt w/ firm option (86T)		2	2	2	2	2	2	2	2	2
Trans. non-exclus inter w/firm option (87T)		10	10	10	10	10	10	10	10	10
Contracts		10	10	10	10	10	10	10	10	10
Total customer counts		826,556	827,699	828,501	828,856	829,484	829,721	829,871	830,395	830,966
Check		0	0	0	0	0	0	0	0	0

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Summary of Weather Normalized Volume by Rate Class (Thern)					
Residential (16)		846	671	655	9,344
Residential (23,53)		44,274,555	77,701,214	96,411,150	613,662,174
Commercial & industrial (31)		16,641,100	26,448,167	33,312,367	232,245,223
Large volume (41)		5,086,766	6,841,150	7,994,035	65,497,865
Compressed natural gas (50)		0	0	0	0
Standby & auxiliary heating (61)					0
Interruptible (85)		1,246,630	1,526,244	1,796,281	15,787,999
Limited interruptible (86)		702,397	948,761	1,160,537	8,752,637
Non exclusive interruptible (87)		1,756,850	2,152,439	2,585,495	22,881,724
Trans. General services (31T)		1,467	2,140	2,461	31,498
Trans. large volume (41T)		1,784,480	1,838,827	1,900,802	20,617,014
Trans. interrupt with firm option (85T)		6,781,135	6,236,363	6,119,205	74,832,158
Trans. limited interrupt w/ firm option (86T)		33,141	34,143	28,235	351,288
Trans. non-exclus inter w/firm option (87T)		7,999,972	7,185,633	9,016,301	100,227,308
Contracts		2,944,519	3,753,743	4,219,586	37,090,867
Total sales and transport volume		89,253,857	134,669,494	164,547,111	1,191,987,098
Check		0	0	0	0
Summary of Customer Counts by Rate Groups					
Residential (16,23,53)		774,710	776,870	778,198	9,265,563
Commercial & industrial (31)		56,699	56,842	56,976	680,262
Large volume (41)		1,308	1,318	1,319	16,018
Compressed natural gas (50)		0	0	0	0
Standby service (61)		0	0	0	0
Interruptible (85)		28	28	28	341
Limited interruptible (86)		226	223	219	2,712
Non exclusive interruptible (87)		5	5	5	60
Trans. General services (31T)		2	2	2	31
Trans. large volume (41T)		109	106	106	1,280
Trans. interrupt with firm option (85T)		103	103	103	1,227
Trans. limited interrupt w/ firm option (86T)		2	2	3	25
Trans. non-exclus inter w/firm option (87T)		10	10	10	120
Contracts		10	10	10	120
Total customer counts		833,212	835,519	836,979	9,967,759
Check		0	0	0	0

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Summary of Weather Normalized Volume by Rate Groups (Therms)										
Residential (16,23,53)		97,231,970	73,373,898	75,850,842	50,274,207	30,886,461	19,281,721	13,445,966	13,244,648	21,692,716
Commercial & industrial (31)		33,819,693	26,737,897	27,366,430	19,228,638	12,820,360	9,367,757	8,114,096	8,197,715	10,191,005
Large volume (41)		8,199,255	6,874,534	7,186,710	5,748,761	4,512,372	3,584,101	2,929,328	2,967,291	3,573,563
Compressed natural gas (50)		0	0	0	0	0	0	0	0	0
Interruptible (85)		1,933,608	1,680,524	1,789,388	1,400,452	1,046,948	846,567	751,275	818,593	951,488
Limited interruptible (86)		1,276,428	1,068,462	1,127,196	864,727	484,539	321,778	219,962	215,005	362,844
Non exclusive interruptible (87)		2,582,095	2,453,870	2,432,020	2,074,670	1,485,710	1,430,551	1,280,281	1,275,025	1,372,716
Trans. General services (31T)		5,003	6,550	5,064	3,518	1,618	992	799	839	1,048
Trans. large volume (41T)		1,896,974	1,747,749	1,903,760	1,695,900	1,615,187	1,585,578	1,532,375	1,597,052	1,518,330
Trans. interrupt with firm option (85T)		6,677,618	6,081,562	6,977,294	6,172,883	6,120,130	5,984,494	5,788,622	5,929,214	5,963,638
Trans. limited interrupt w/ firm option (86T)		49,344	52,604	40,826	24,786	18,363	20,943	16,364	13,568	18,972
Trans. non-exclus inter w/firm option (87T)		8,436,599	8,777,355	9,545,363	8,252,639	8,341,790	7,675,361	8,618,473	8,692,812	7,685,009
Contracts		4,443,468	3,867,486	3,813,819	3,266,173	2,607,580	2,223,953	1,816,114	1,897,096	2,237,329
Total sales and transport volume		166,552,053	132,722,491	138,038,713	99,007,354	69,941,058	52,323,796	44,513,655	44,848,857	55,568,658
Check		0	0	0	0	0	0	0	0	0
Total sales volume		145,043,048	112,189,185	115,752,587	79,591,455	51,236,389	34,832,474	26,740,908	26,718,277	38,144,332
Total transportation volume		21,509,005	20,533,307	22,286,126	19,415,899	18,704,669	17,491,321	17,772,747	18,130,580	17,424,326
Total		166,552,053	132,722,491	138,038,713	99,007,354	69,941,058	52,323,796	44,513,655	44,848,857	55,568,658
Check		0	0	0	0	0	0	0	0	0

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Summary of Weather Normalized Volume by Rate Groups (The					
Residential (16,23,53)		44,275,401	77,701,884	96,411,805	613,671,518
Commercial & industrial (31)		16,641,100	26,448,167	33,312,367	232,245,223
Large volume (41)		5,086,766	6,841,150	7,994,035	65,497,865
Compressed natural gas (50)		0	0	0	0
Interruptible (85)		1,246,630	1,526,244	1,796,281	15,787,999
Limited interruptible (86)		702,397	948,761	1,160,537	8,752,637
Non exclusive interruptible (87)		1,756,850	2,152,439	2,585,495	22,881,724
Trans. General services (31T)		1,467	2,140	2,461	31,498
Trans. large volume (41T)		1,784,480	1,838,827	1,900,802	20,617,014
Trans. interrupt with firm option (85T)		6,781,135	6,236,363	6,119,205	74,832,158
Trans. limited interrupt w/ firm option (86T)		33,141	34,143	28,235	351,288
Trans. non-exclus inter w/firm option (87T)		7,999,972	7,185,633	9,016,301	100,227,308
Contracts		2,944,519	3,753,743	4,219,586	37,090,867
Total sales and transport volume		89,253,857	134,669,494	164,547,111	1,191,987,098
Check		0	0	0	0
Total sales volume		69,709,143	115,618,645	143,260,520	958,836,964
Total transportation volume		19,544,714	19,050,849	21,286,591	233,150,133
Total		89,253,857	134,669,494	164,547,111	1,191,987,098
Check		0	0	0	0

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Rate Class	Rate Sch.	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Weather Normalized Usage Per Customer (Therms)										
Residential & residential propane	23	127	95	99	65	40	25	17	17	28
General service - commercial & industrial	31	597	472	482	339	226	165	143	145	180
Large volume	41	6,020	5,066	5,284	4,218	3,315	2,651	2,228	2,279	2,747
Propane	53	57	0	0	0	0	0	0	0	0
Emergency Compressed Nature Gas Service	50	0	0	0	0	0	0	0	0	0
Trans. General services (31T)	31T	1,668	2,183	1,688	1,173	539	331	266	420	524
Trans. large volume (41T)	41T	18,417	16,645	18,131	16,151	15,383	14,547	14,058	14,652	13,930
Trans. interrupt with firm option (85T)	85T	66,115	60,213	69,082	61,118	60,001	58,102	56,200	57,565	57,899
Trans. limited interrupt w/ firm option (86T)	86T	24,672	26,302	20,413	12,393	9,182	10,472	8,182	6,784	9,486
Trans. non-exclus inter w/firm option (87T)	87T	843,660	877,736	954,536	825,264	834,179	767,536	861,847	869,281	768,501
Interruptible with firm option	85	66,676	57,949	61,703	48,291	36,102	30,235	26,831	29,235	33,982
Limited interrupt w/ firm option	86	5,598	4,686	4,944	3,793	2,135	1,418	973	951	1,606
Non-exclus interrupt/firm option	87	516,419	490,774	486,404	414,934	297,142	286,110	256,056	255,005	274,543
Contracts	SC	444,347	386,749	381,382	326,617	260,758	222,395	181,611	189,710	223,733
Total		202	160	167	119	84	63	54	54	67

Rate Class	Rate Sch.	Oct-18	Nov-18	Dec-18	Total
Weather Normalized Usage Per Customer (Therms)					
Residential & residential propane	23	57	100	124	795
General service - commercial & industrial	31	293	465	585	4,094
Large volume	41	3,889	5,191	6,061	48,948
Propane	53	0	0	0	57
Emergency Compressed Nature Gas Service	50	0	0	0	
Trans. General services (31T)	31T	734	1,070	1,231	1,016
Trans. large volume (41T)	41T	16,371	17,347	17,932	193,565
Trans. interrupt with firm option (85T)	85T	65,836	60,547	59,410	732,089
Trans. limited interrupt w/ firm option (86T)	86T	16,571	17,072	9,412	170,939
Trans. non-exclus inter w/firm option (87T)	87T	799,997	718,563	901,630	10,022,731
Interruptible with firm option	85	44,523	54,509	64,153	554,188
Limited interrupt w/ firm option	86	3,108	4,255	5,299	38,765
Non-exclus interrupt/firm option	87	351,370	430,488	517,099	4,576,344
Contracts	SC	294,452	375,374	421,959	3,709,087
Total		107	161	197	1,435

Puget Sound Energy
Gas Weather Normalization of Volume
12 Months Ended December 31, 2018

Summary of Customer Counts by Rate Groups	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
Residential (16,23,53)	768,045	769,188	769,910	770,300	770,946	771,263	771,479
Commercial & industrial (31)	56,658	56,661	56,738	56,700	56,684	56,609	56,581
Large volume (41)	1,362	1,357	1,360	1,363	1,361	1,352	1,315
Compressed natural gas (50)	0	0	0	0	0	0	0
Standby service (61)	0	0	0	0	0	0	0
Interruptible (85)	29	29	29	29	29	28	28
Limited interruptible (86)	228	228	228	228	227	227	226
Non exclusive interruptible (87)	5	5	5	5	5	5	5
Trans. General services (31T)	3	3	3	3	3	3	3
Trans. large volume (41T)	103	105	105	105	105	109	109
Trans. interrupt with firm option (85T)	101	101	101	101	102	103	103
Trans. limited interrupt w/ firm option (86T)	2	2	2	2	2	2	2
Trans. non-exclus inter w/firm option (87T)	10	10	10	10	10	10	10
Contracts	10	10	10	10	10	10	10
Total customer counts	826,556	827,699	828,501	828,856	829,484	829,721	829,871

Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total	Average
772,033	772,621	774,710	776,870	778,198	9,265,563	772,130
56,565	56,549	56,699	56,842	56,976	680,262	56,689
1,302	1,301	1,308	1,318	1,319	16,018	1,335
0	0	0	0	0	0	-
0	0	0	0	0	0	-
28	28	28	28	28	341	28
226	226	226	223	219	2,712	226
5	5	5	5	5	60	5
2	2	2	2	2	31	3
109	109	109	106	106	1,280	107
103	103	103	103	103	1,227	102
2	2	2	2	3	25	2
10	10	10	10	10	120	10
10	10	10	10	10	120	10
830,395	830,966	833,212	835,519	836,979	9,967,759	830,647