

Appendix B  
Demand Forecast  
2020 WA IRP

## **Appendix B - Introduction**

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

Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

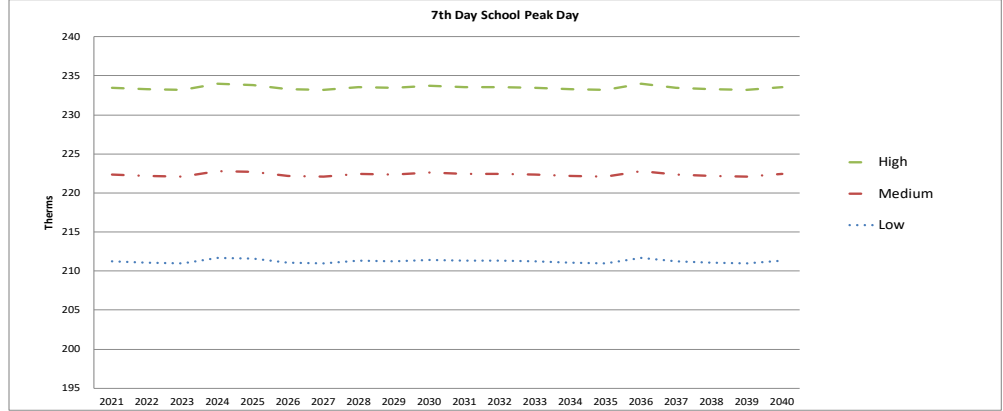
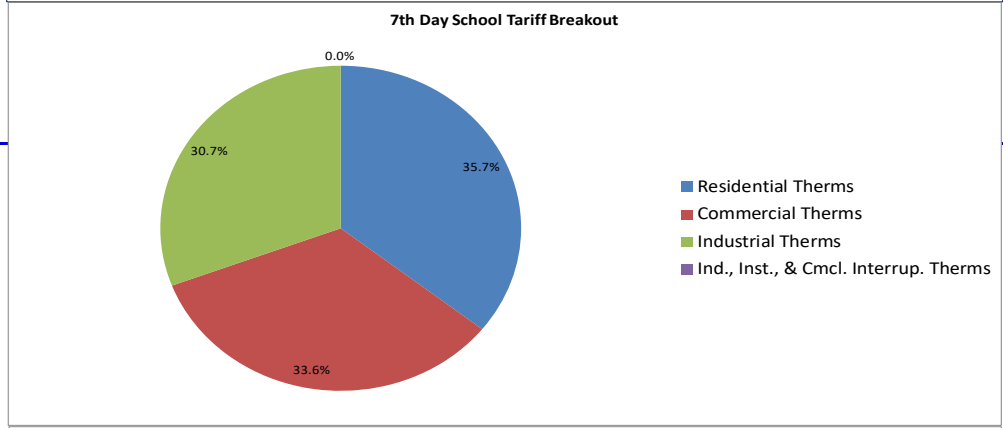
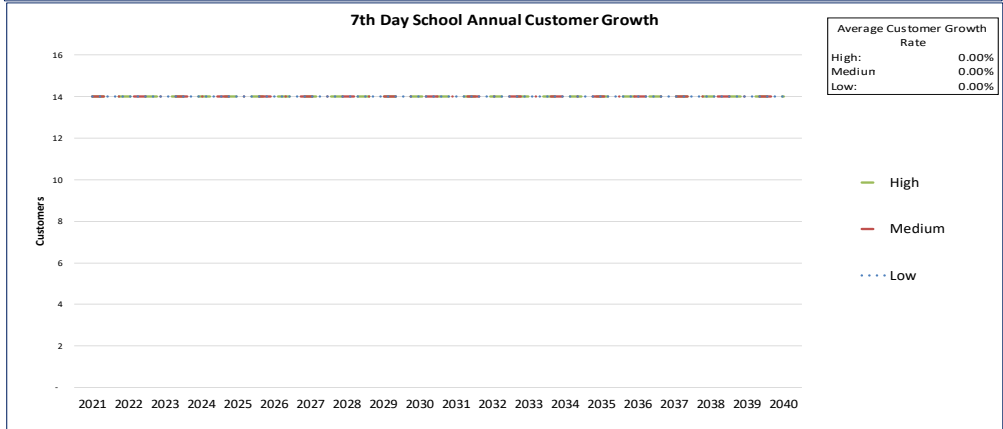
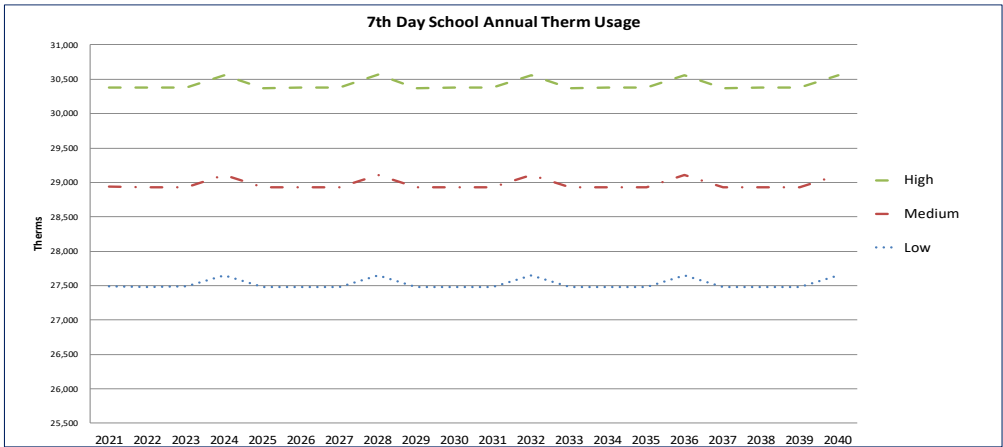
7th Day School

Table with columns: Heating, Baseload, Total (under Low, Medium, High) and Annual Change (Low, Medium, High). Rows 2021-2040.

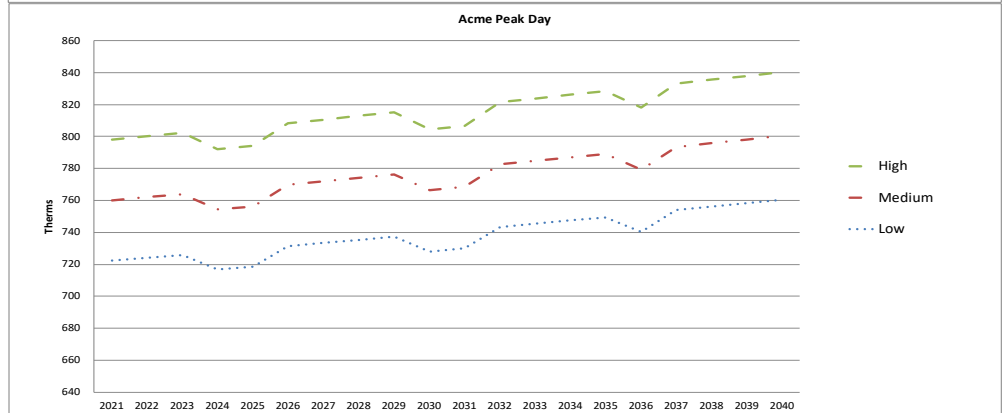
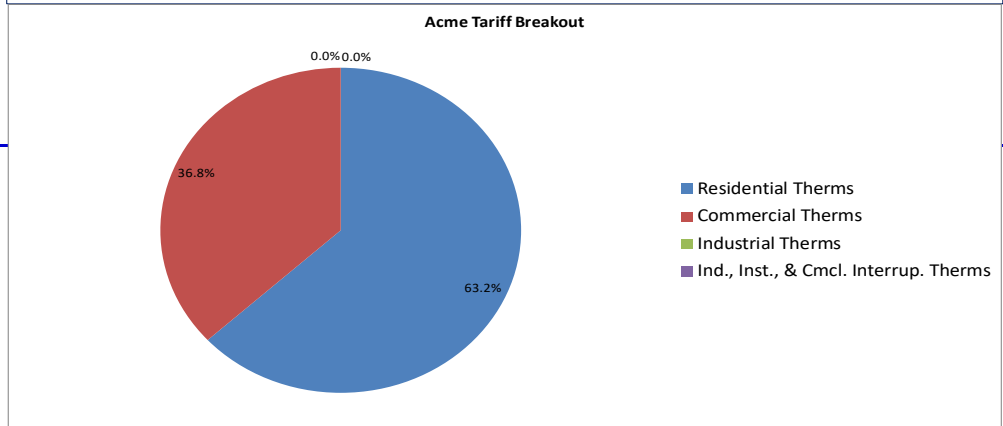
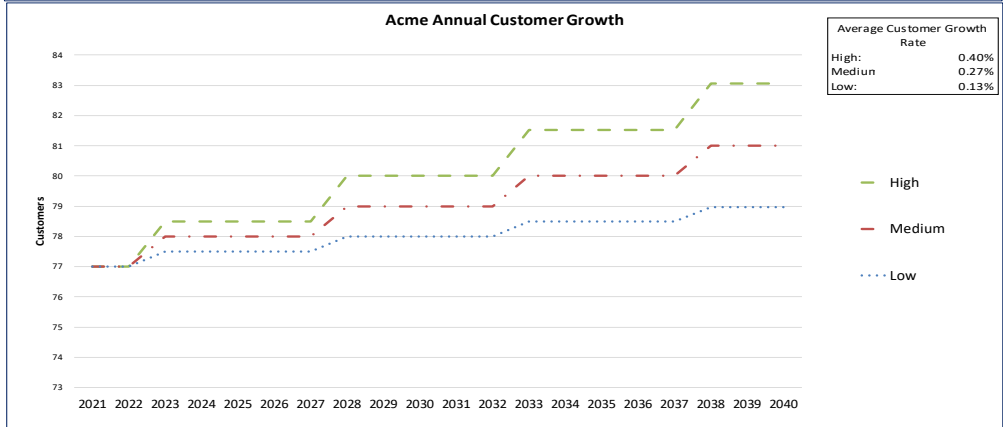
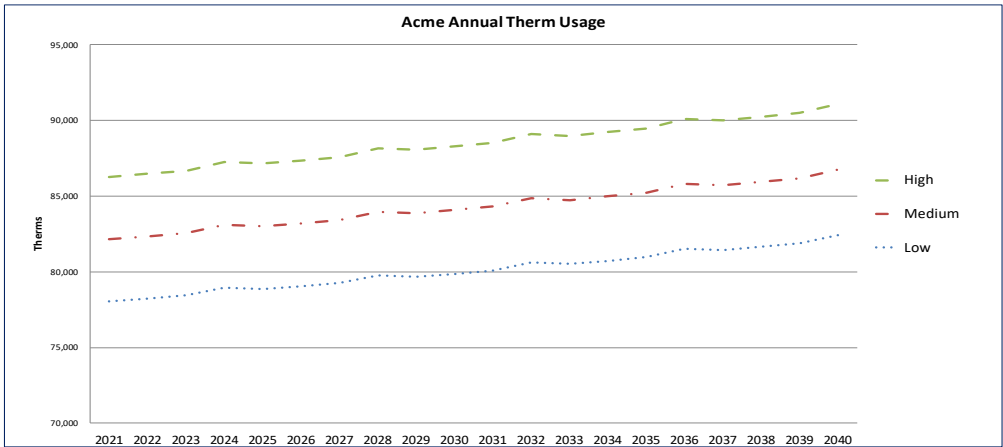
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Table with columns: Res, Com/Ind, Total (under Low, Medium, High) and Annual Change (Low, Medium, High). Rows 2021-2040.

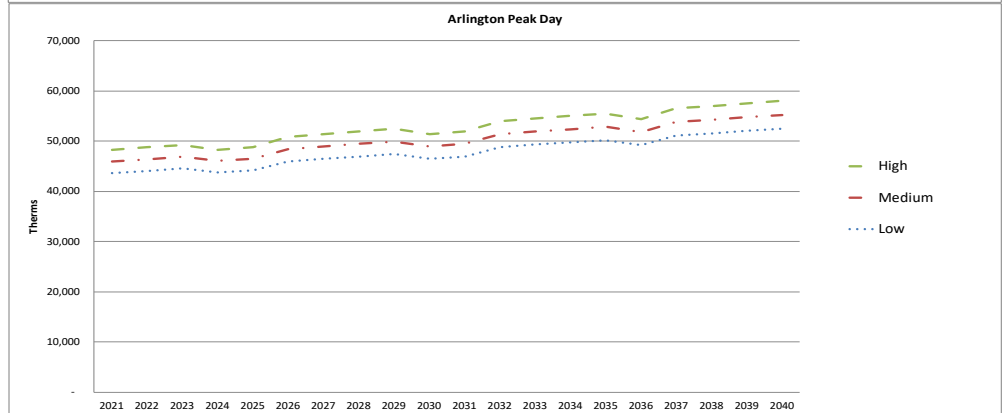
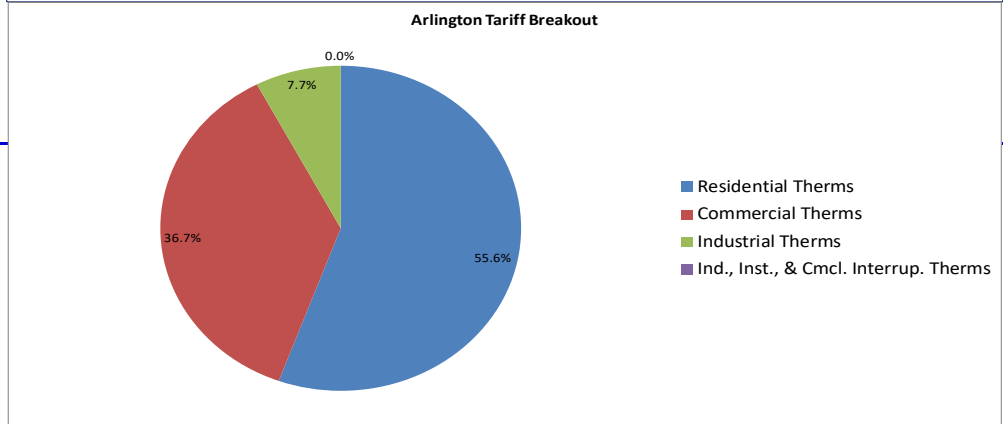
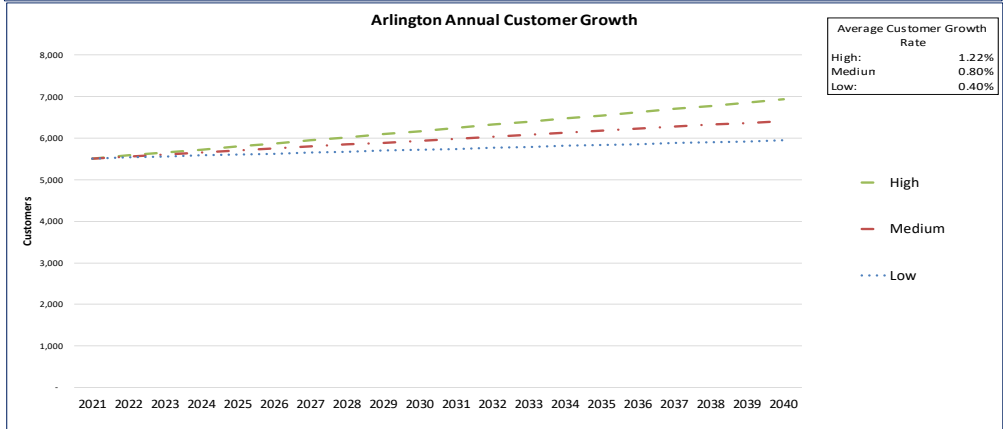
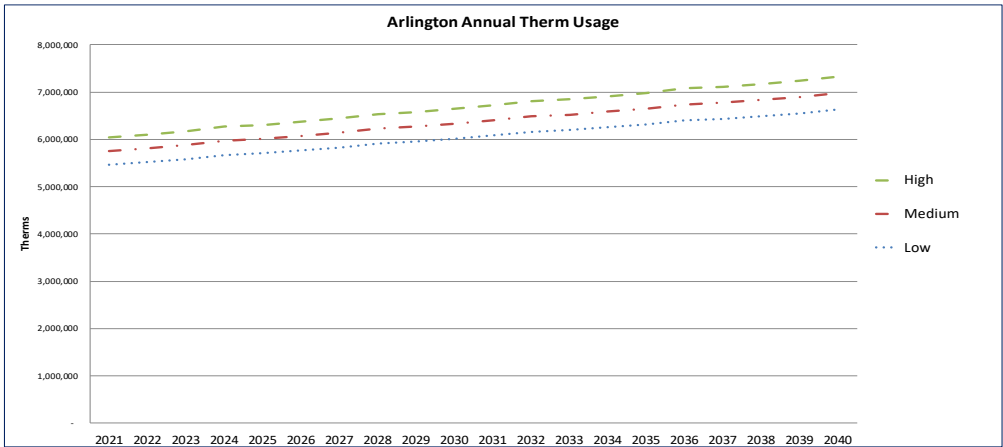
Table with columns: Res, Com/Ind, Total (under Low, Medium, High) and Annual Change (Low, Medium, High). Rows 2021-2040.





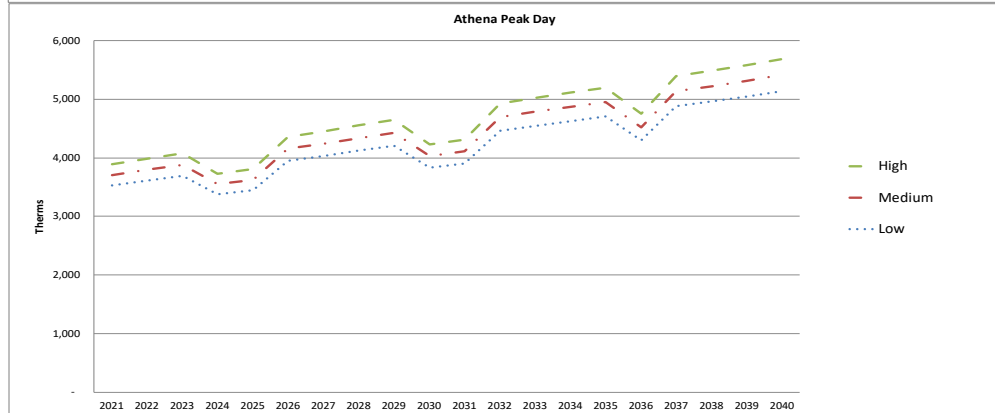
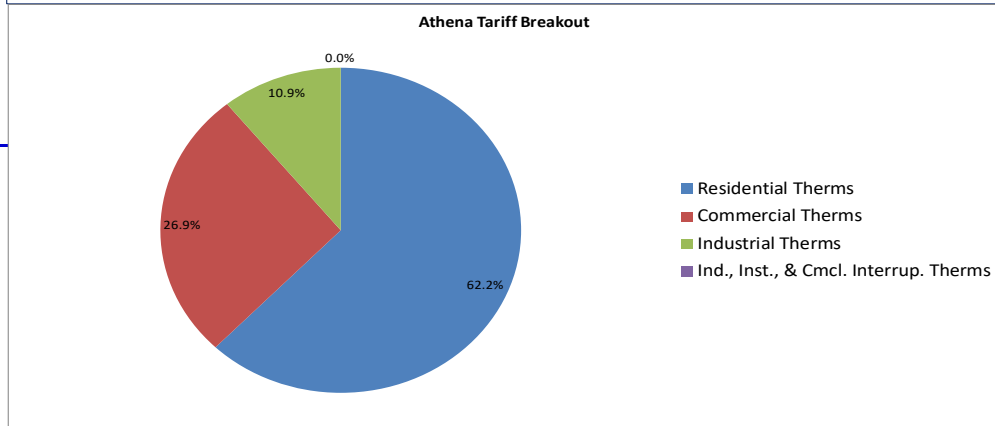
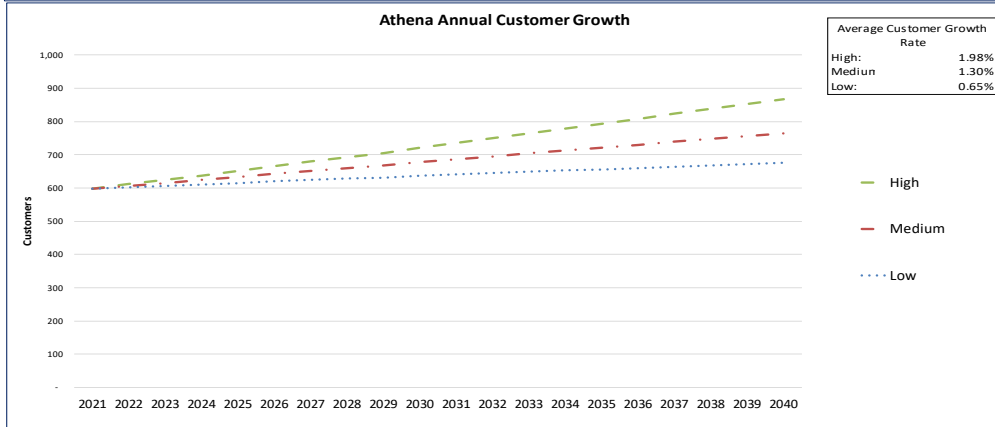
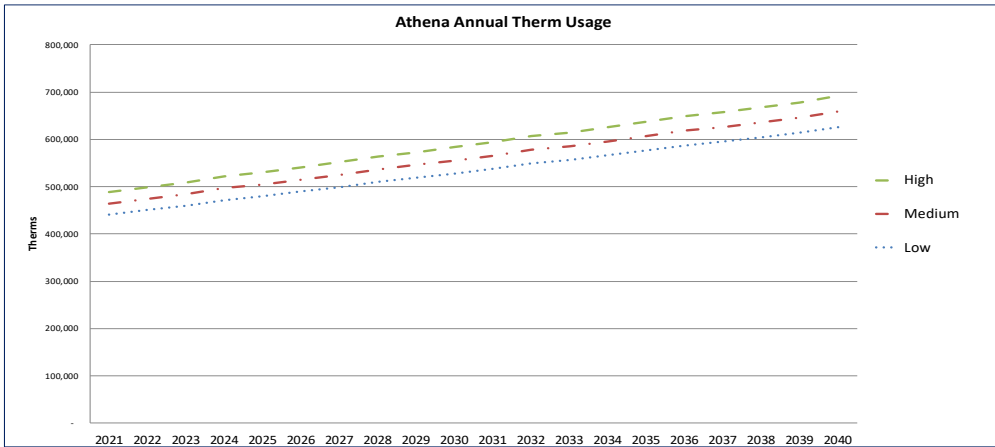








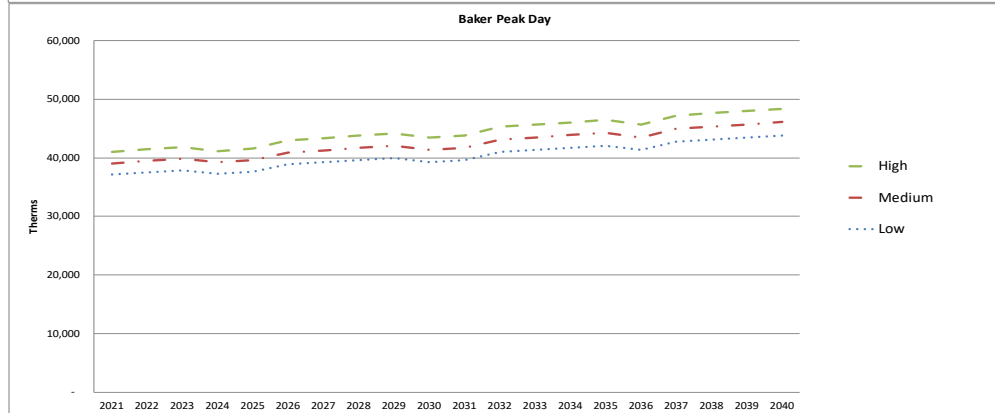
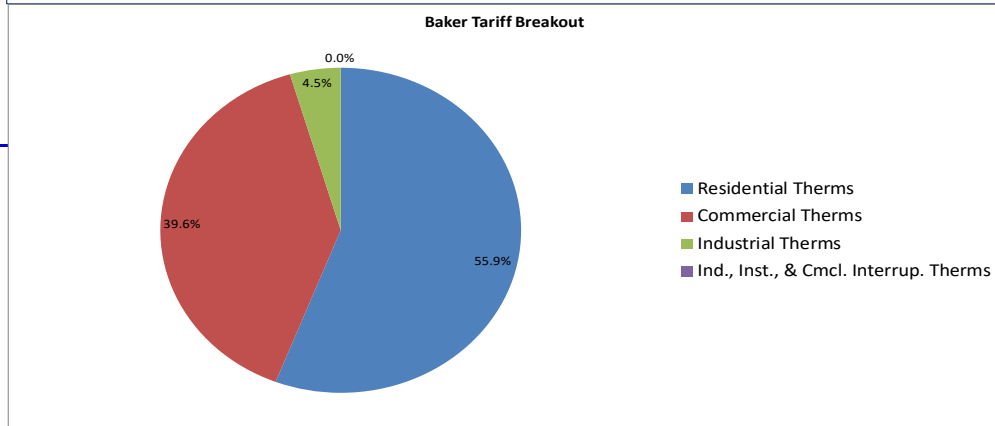
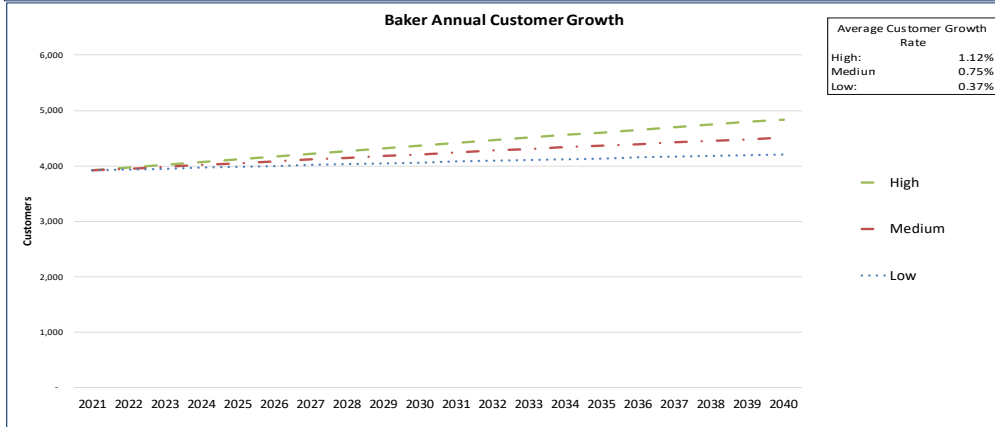
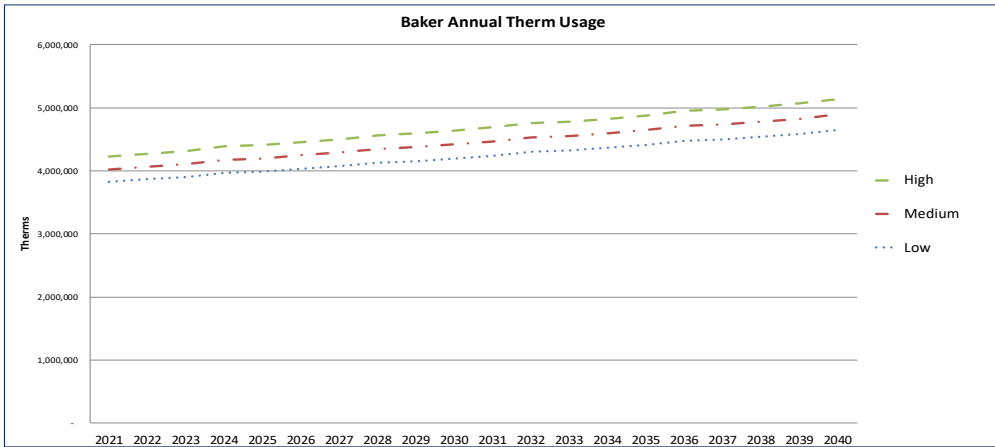




Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

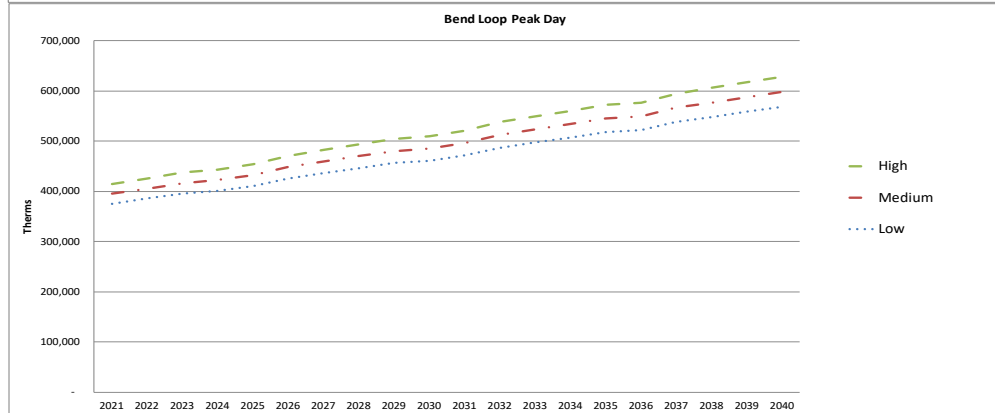
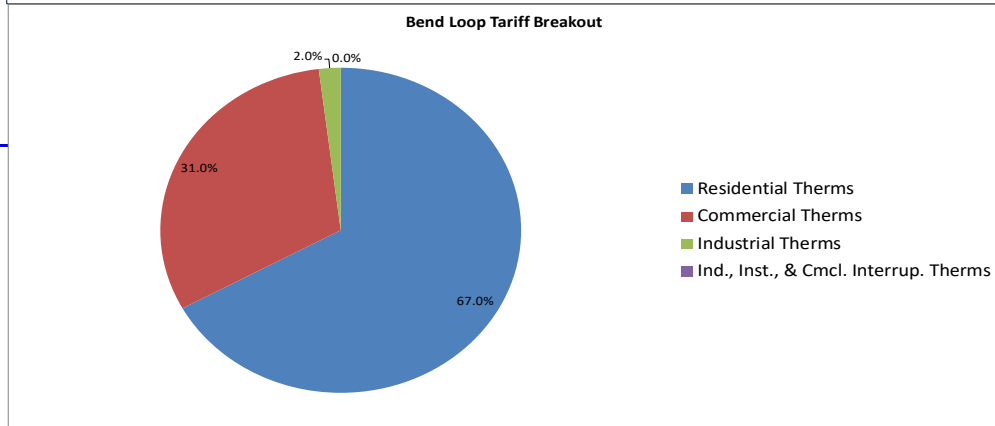
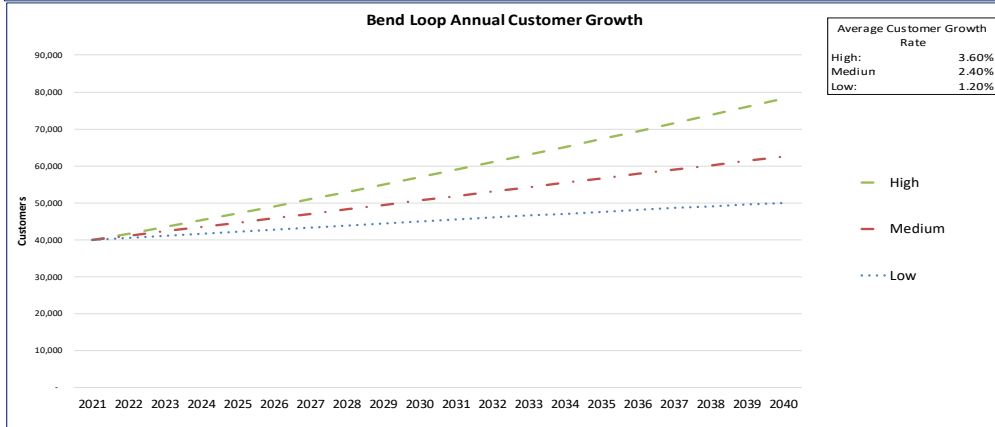
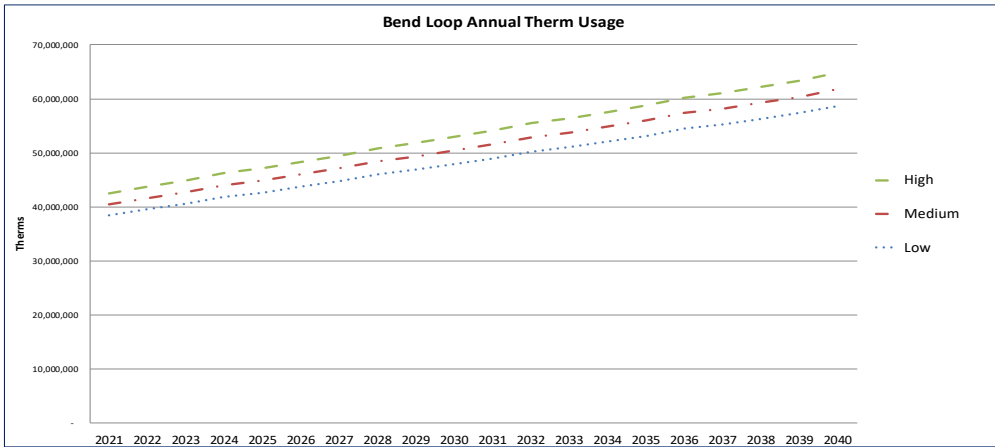
Baker

Table with 13 columns and 30 rows. Columns include Annual Requirements (Therms) and Annual Change for Low, Medium, and High scenarios. Rows represent years from 2021 to 2040.

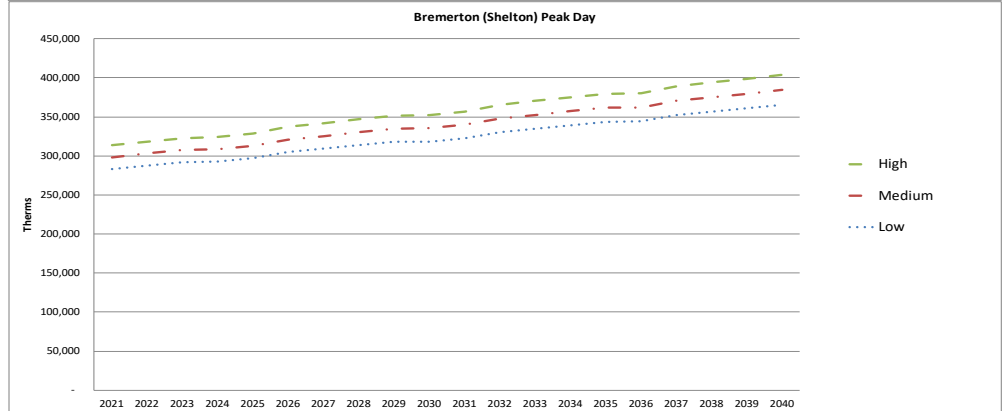
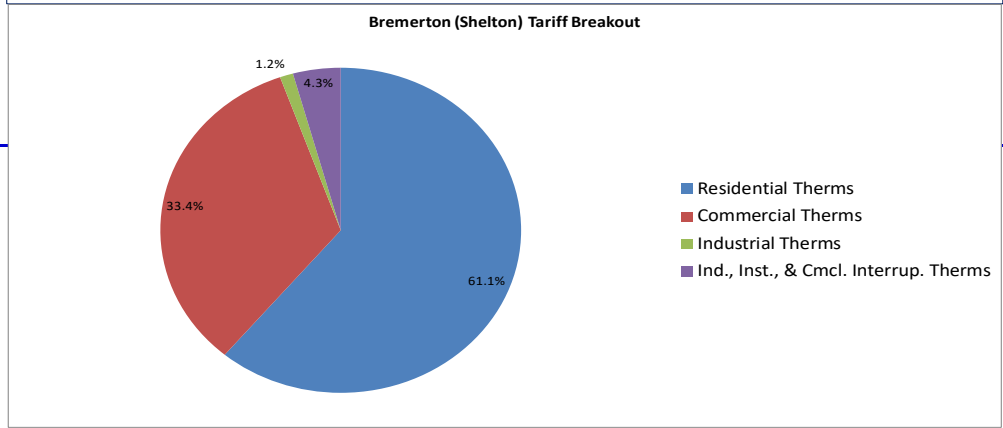
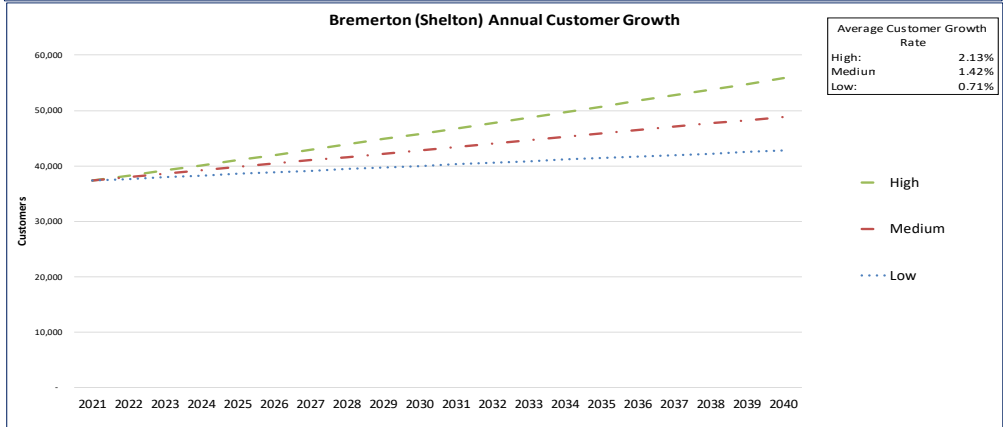
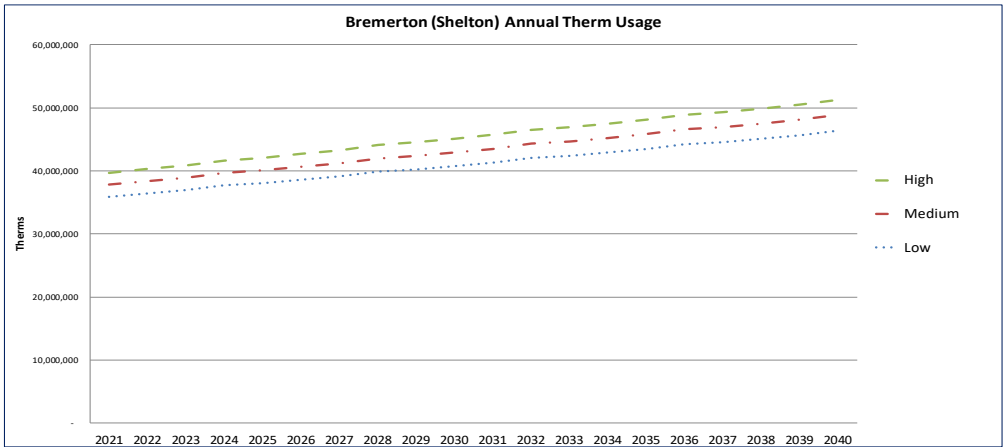


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Bend Loop, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Thermo Usage by Class, and Customer Count Forecast. Each section contains a grid of data for years 2021-2040 across various metrics like Heating, BaseLoad, Total, and Annual Change.



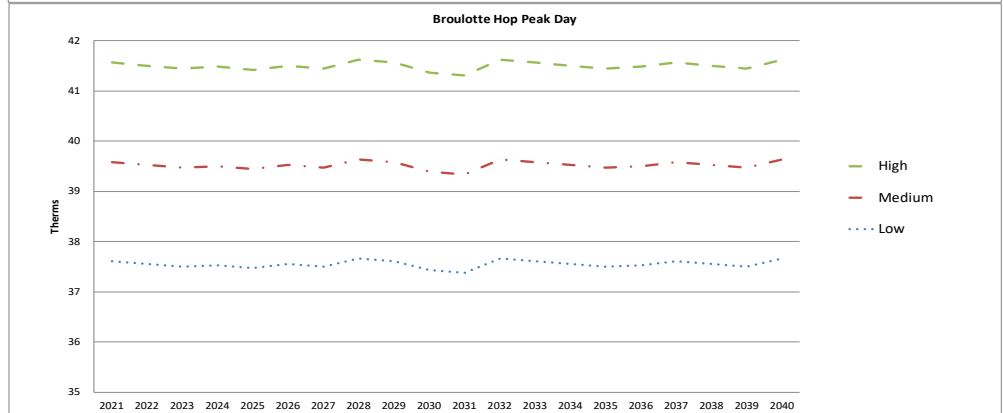
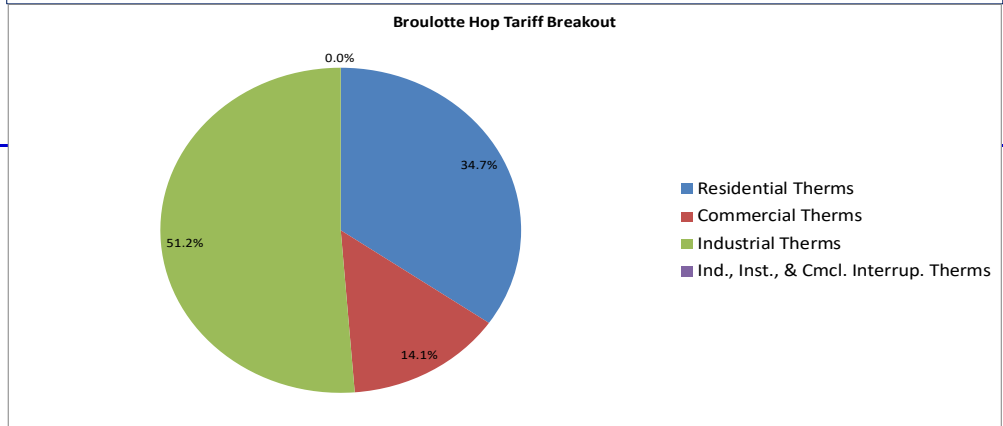
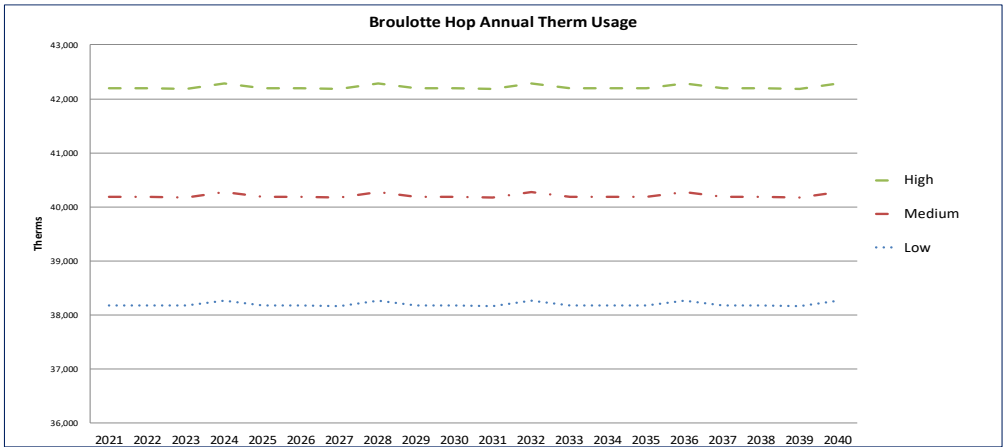






Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Main data table for Broulotte HOP, including sections for Annual Requirements (Therms), Peak Day - BaseLoad, Therms Usage by Class, and Customer Count Forecast. Each section contains columns for Low, Medium, and High scenarios across various metrics and years (2021-2040).



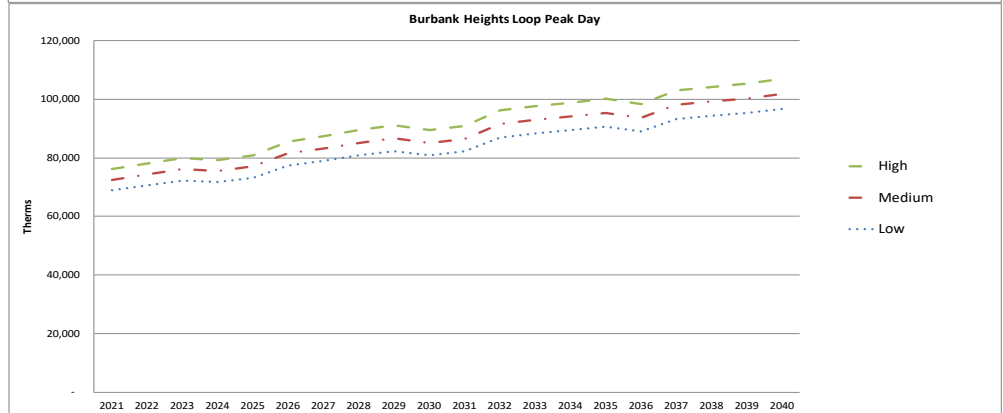
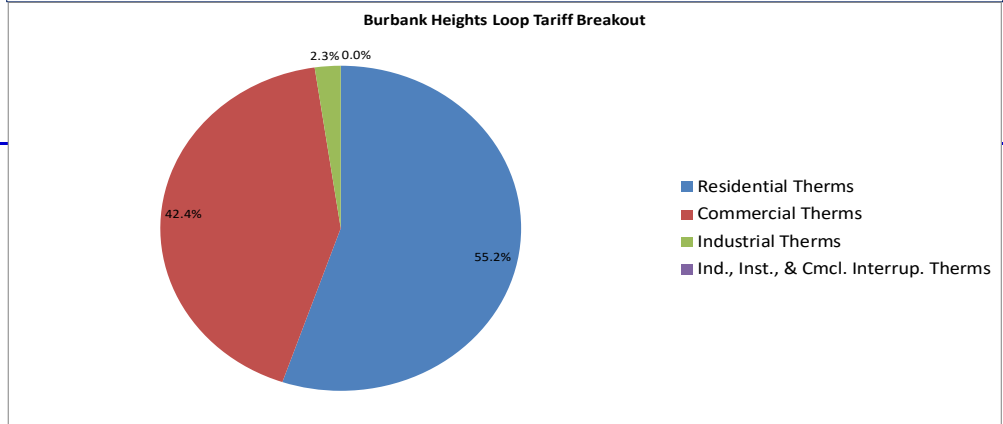
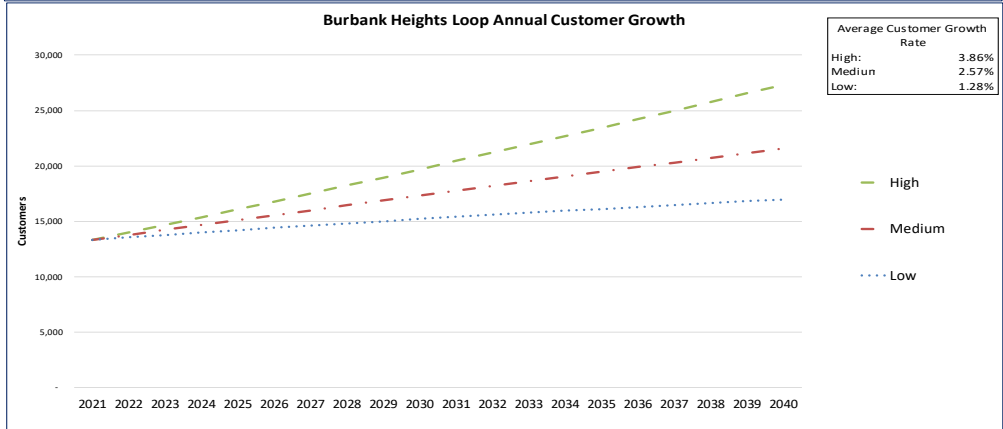
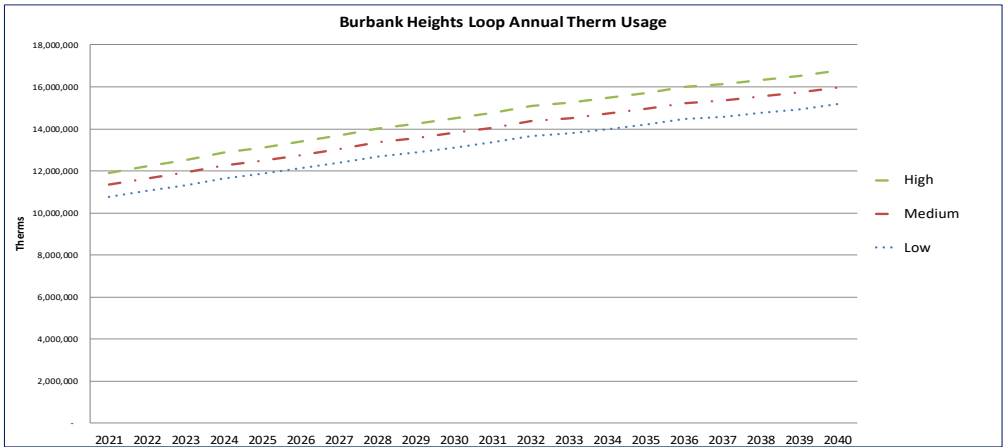
Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

**Burbank Heights Loop**

		Annual Requirements (Therms)									Annual Change								
		Low			Medium			High			Low			Medium			High		
		Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	7,721,150	3,054,905	10,776,055	8,127,527	3,215,689	11,343,216	8,533,903	3,376,474	11,910,377	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	7,937,384	3,128,629	11,065,653	8,355,141	3,292,914	11,648,056	8,772,898	3,457,560	12,230,459	2.80%	2.40%	2.69%	2.80%	2.40%	2.69%	2.80%	2.40%	2.69%	2.80%
2023	8,315,724	3,015,544	11,331,268	8,753,394	3,174,257	11,927,651	9,191,063	3,332,970	12,524,033	4.77%	-3.60%	2.40%	4.77%	-3.60%	2.40%	4.77%	-3.60%	2.40%	4.77%
2024	8,619,616	3,035,754	11,655,371	9,073,280	3,195,531	12,268,811	9,526,944	3,355,308	12,882,252	3.65%	0.67%	2.86%	3.65%	0.67%	2.86%	3.65%	0.67%	2.86%	3.65%
2025	8,503,769	3,355,718	11,859,487	8,951,336	3,532,335	12,483,671	9,398,903	3,700,681	13,099,584	-1.34%	1.75%	1.75%	-1.34%	1.75%	1.75%	-1.34%	1.75%	1.75%	1.75%
2026	8,704,824	3,420,616	12,125,440	9,162,973	3,600,648	12,763,621	9,621,122	3,780,681	13,401,803	2.36%	1.93%	2.24%	2.36%	1.93%	2.24%	2.36%	1.93%	2.24%	2.36%
2027	8,899,731	3,482,771	12,382,502	9,368,138	3,666,075	13,034,213	9,836,545	3,849,379	13,685,923	2.24%	1.82%	2.24%	2.24%	1.82%	2.24%	2.24%	1.82%	2.24%	2.24%
2028	9,288,585	3,400,997	12,689,582	9,777,458	3,579,996	13,357,455	10,266,331	3,758,996	14,025,327	4.37%	-2.35%	2.48%	4.37%	-2.35%	2.48%	4.37%	-2.35%	2.48%	4.37%
2029	9,351,933	3,526,613	12,878,546	9,844,141	3,712,224	13,556,364	10,336,347	3,897,835	14,234,183	0.68%	3.69%	1.49%	0.68%	3.69%	1.49%	0.68%	3.69%	1.49%	1.49%
2030	9,730,565	3,389,749	13,120,314	10,242,700	3,568,157	13,810,857	10,754,835	3,746,565	14,501,400	4.05%	-3.88%	1.88%	4.05%	-3.88%	1.88%	4.05%	-3.88%	1.88%	1.88%
2031	9,605,373	3,749,687	13,355,060	10,110,919	3,947,039	14,057,957	10,616,465	4,144,390	14,760,856	-1.29%	10.62%	1.79%	-1.29%	10.62%	1.79%	-1.29%	10.62%	1.79%	1.79%
2032	9,806,806	3,840,820	13,647,625	10,322,954	4,042,968	14,365,921	10,839,101	4,245,116	15,084,217	2.10%	2.43%	2.19%	2.10%	2.43%	2.19%	2.10%	2.43%	2.19%	2.19%
2033	9,903,551	3,890,557	13,794,108	10,424,790	4,095,323	14,520,113	10,940,330	4,300,089	15,246,419	0.99%	1.29%	1.07%	0.99%	1.29%	1.07%	0.99%	1.29%	1.07%	1.07%
2034	10,279,536	3,720,447	13,999,983	10,820,565	3,916,260	14,736,825	11,361,993	4,112,073	15,473,666	3.80%	-4.37%	1.49%	3.80%	-4.37%	1.49%	3.80%	-4.37%	1.49%	1.49%
2035	10,346,144	3,856,741	14,202,885	10,890,677	4,061,833	14,952,510	11,435,211	4,264,925	15,700,136	0.65%	3.72%	1.46%	0.65%	3.72%	1.46%	0.65%	3.72%	1.46%	1.46%
2036	10,405,870	4,064,675	14,470,545	10,953,546	4,278,605	15,232,151	11,501,224	4,499,335	15,993,559	0.58%	5.34%	1.87%	0.58%	5.34%	1.87%	0.58%	5.34%	1.87%	1.87%
2037	10,481,186	4,105,103	14,586,289	11,032,827	4,321,161	15,353,988	11,584,468	4,537,219	16,121,687	0.72%	0.99%	0.80%	0.72%	0.99%	0.80%	0.72%	0.99%	0.80%	0.80%
2038	10,624,719	4,143,758	14,768,477	11,183,915	4,361,850	15,545,765	11,743,110	4,579,943	16,323,053	1.37%	0.94%	1.25%	1.37%	0.94%	1.25%	1.37%	0.94%	1.25%	1.25%
2039	10,759,326	4,179,974	14,939,300	11,325,606	4,399,973	15,725,579	11,891,887	4,619,971	16,511,858	1.27%	0.87%	1.16%	1.27%	0.87%	1.16%	1.27%	0.87%	1.16%	1.16%
2040	11,245,249	3,937,842	15,183,091	11,837,104	4,145,097	15,982,202	12,428,960	4,352,352	16,781,312	4.52%	-5.79%	1.63%	4.52%	-5.79%	1.63%	4.52%	-5.79%	1.63%	1.63%

		Peak Day - Baseload									Annual Change								
		Low			Medium			High			Low			Medium			High		
		Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	8,370	60,547	68,917	8,810	63,734	72,544	9,251	66,921	76,171	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	8,571	62,113	70,684	9,022	65,382	74,404	9,473	68,651	78,124	2.40%	2.59%	2.56%	2.40%	2.59%	2.56%	2.40%	2.59%	2.56%	
2023	8,262	64,014	72,276	8,697	67,383	76,079	9,131	70,752	79,883	-3.60%	3.06%	2.25%	-3.60%	3.06%	2.25%	-3.60%	3.06%	2.25%	
2024	8,317	63,412	71,729	8,755	66,749	75,504	9,193	70,087	79,279	0.67%	-0.94%	-0.76%	0.67%	-0.94%	-0.76%	0.67%	-0.94%	-0.76%	
2025	9,194	64,949	74,143	9,678	67,420	76,098	10,162	70,791	80,953	10.54%	1.00%	2.11%	10.54%	1.00%	2.11%	10.54%	1.00%	2.11%	
2026	9,372	68,069	77,441	9,865	71,652	81,516	10,358	75,234	85,592	1.93%	6.28%	5.73%	1.93%	6.28%	5.73%	1.93%	6.28%	5.73%	
2027	9,542	69,425	78,967	10,044	73,079	83,123	10,546	76,733	87,279	1.82%	1.99%	1.97%	1.82%	1.99%	1.97%	1.82%	1.99%	1.97%	
2028	9,318	71,595	80,913	9,808	75,363	85,171	10,299	79,131	89,739	-2.35%	3.13%	2.46%	-2.35%	3.13%	2.46%	-2.35%	3.13%	2.46%	
2029	9,662	72,713	82,375	10,170	76,540	86,710	10,679	80,367	91,046	3.69%	1.56%	1.81%	3.69%	1.56%	1.81%	3.69%	1.56%	1.81%	
2030	9,287	71,626	80,913	9,776	75,396	85,171	10,265	79,131	89,430	-3.88%	-1.49%	-1.77%	-3.88%	-1.49%	-1.77%	-3.88%	-1.49%	-1.77%	
2031	10,273	71,961	82,234	10,814	75,749	86,562	11,354	79,536	90,891	10.62%	0.47%	1.63%	10.62%	0.47%	1.63%	10.62%	0.47%	1.63%	
2032	10,523	76,466	86,988	11,077	80,490	91,567	11,630	84,515	96,145	2.43%	6.26%	5.78%	2.43%	6.26%	5.78%	2.43%	6.26%	5.78%	
2033	10,659	77,594	88,253	11,220	81,678	92,898	11,781	85,762	97,543	1.29%	1.48%	1.45%	1.29%	1.48%	1.45%	1.29%	1.48%	1.45%	
2034	10,193	79,245	89,438	10,729	83,416	94,145	11,266	87,587	98,853	-4.37%	2.13%	1.34%	-4.37%	2.13%	1.34%	-4.37%	2.13%	1.34%	
2035	10,572	80,000	90,572	11,128	84,232	95,360	11,685	88,443	100,128	3.72%	0.98%	1.29%	3.72%	0.98%	1.29%	3.72%	0.98%	1.29%	
2036	11,126	77,936	89,072	11,722	82,038	93,760	12,308	86,139	98,448	5.34%	-2.60%	-1.68%	5.34%	-2.60%	-1.68%	5.34%	-2.60%	-1.68%	
2037	11,247	82,056	93,303	11,839	86,375	98,214	12,431	90,694	103,125	0.99%	5.29%	4.75%	0.99%	5.29%	4.75%	0.99%	5.29%	4.75%	
2038	11,353	82,975	94,328	11,950	87,342	99,292	12,548	91,709	104,257	0.94%	1.12%	1.10%	0.94%	1.12%	1.10%	0.94%	1.12%	1.10%	
2039	11,452	83,844	95,296	12,055	88,257	100,312	12,657	92,670	105,328	0.87%	1.05%	1.03%	0.87%	1.05%	1.03%	0.87%	1.05%	1.03%	
2040	10,789	86,012	96,801	11,356	90,539	101,895	11,924	95,066	106,990	-5.79%	2.59%	1.58%	-5.79%	2.59%	1.58%	-5.79%	2.59%	1.58%	

		Therms Usage by Class									Annual Change								
		Low			Medium			High			Low			Medium			High		
		Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	6,005,919	4,770,137	10,776,055	6,322,020	5,021,196	11,343,216	6,638,121	5,272,256	11,910,377	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	6,178,096	4,887,557	11,065,653	6,503,259	5,144,797	11,648,056	6,828,422	5,402,337	12,230,459	2.87%	2.46%	2.69%	2.87%	2.46%	2.69%	2.87%	2.46%	2.69%	
2023	6,334,716	4,996,555	11,331,268	6,668,122	5,259,529	11,927,651	7,001,528	5,522,505	12,524,033	2.54%	2.23%	2.40%	2.54%	2.23%	2.40%	2.54%	2.23%	2.40%	
2024	6,524,392	5,130,979	11,655,371	6,867,781	5,401,030	12,268,811	7,211,170	5,671,082	12,882,252	2.99%	2.69%	2.86%	2.99%	2.69%	2.86%	2.99%	2.69%	2.86%	
2025	6,645,728	5,213,759	11,859,487	6,995,503	5,488,168	12,483,671	7,345,279	5,762,576	13,099,584	1.86%	1.61%	1.75%	1.86%	1.61%	1.75%	1.86%	1.61%	1.75%	
2026	6,802,435	5,323,005	12,125,440	7,160,458	5,603,163	12,763,621	7,518,481	5,883,221	13,401,803	2.36%	2.10%	2.24%	2.36%	2.10%	2.24%	2.36%	2.10%	2.24%	
2027	6,953,401	5,429,101	12,382,502	7,319,369	5,714,843	13,034,213	7,685,338	6,000,586	13,685,923	2.22%	1.99%	2.22%	2.22%	1.99%	2.22%	2.22%	1.99%	2.22%	
2028	7,132,377	5,557,204	12,689,582	7,507,766	5,849,689	13,357,455	7,883,154	6,142,173	14,025,327	2.57%	2.36%	2.48%	2.57%	2.36%	2.48%	2.57%	2.36%	2.48%	
2029	7,243,676	5,634,870	12,878,546	7,624,922	5,931,442	13,556,364	8,006,168	6,228,014	14,234,183	1.56%	1.40%	1.49%	1.56%	1.40%	1.49%	1.56%	1.40%	1.49%	
2030	7,384,748	5,735,566	13,120,314	7,773,419	6,037,438	13,810,857	8,162,090	6,339,310	14,501,400	1.95%	1.79%	1.88%	1.95%	1.79%	1.88%	1.95%	1.79%	1.88%	
2031	7,521,271	5,833,788	13,355,060	7,917,128	6,140,830	14,057,957	8,312,985	6,447,871	14,760,856	1.85%	1.71%	1.79%	1.85%	1.71%	1.79%	1.85%	1.71%	1.79%	
2032	7,690,121	5,957,494	13,647,625	8,094,875	6,271,046	14,365,921	8,499,619	6,584,598	15,084,217	2.25%	1.21%	2.19%	2.25%	1.21%	2				



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

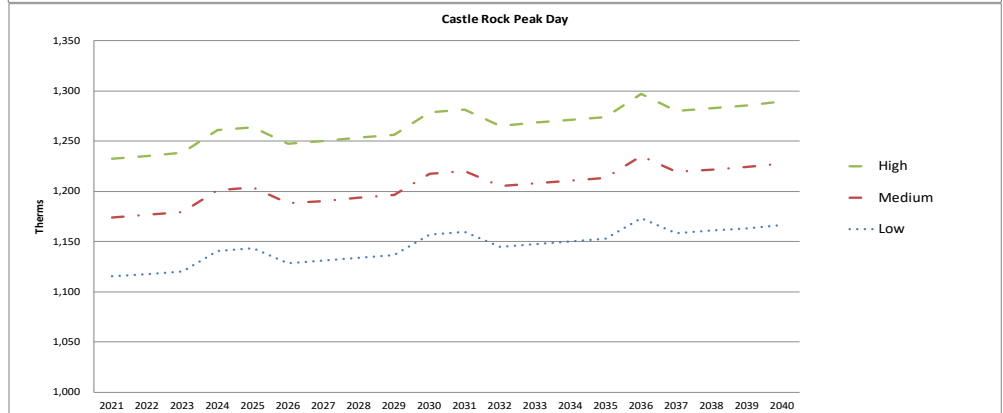
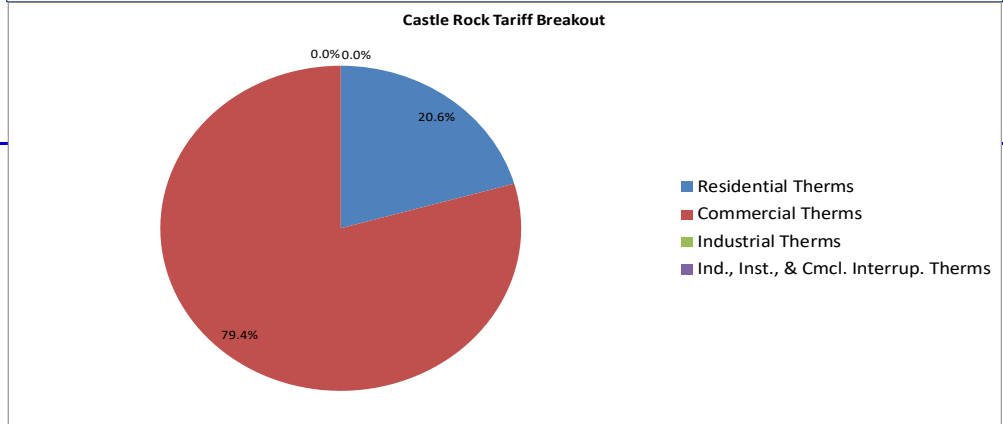
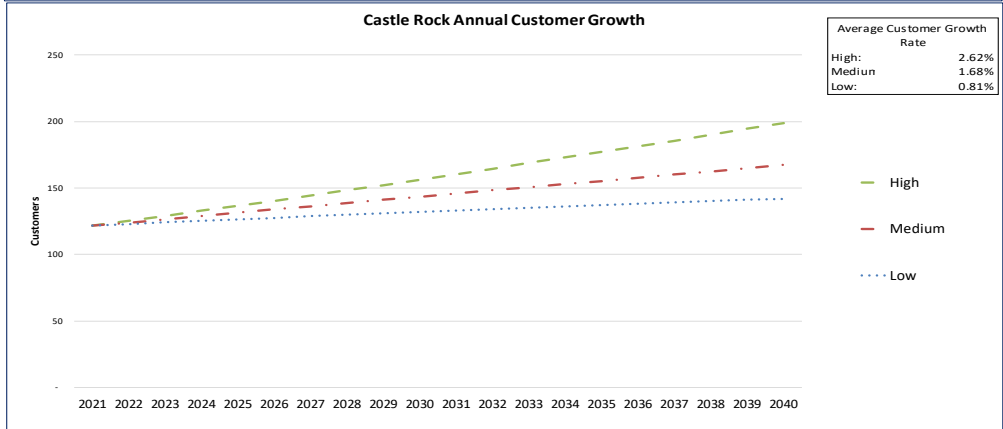
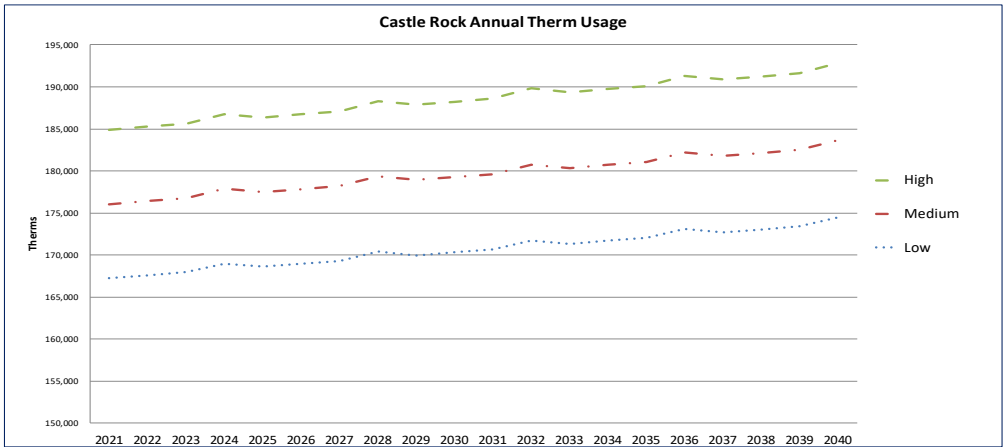
Castle Rock	Annual Requirements (Therms)										Annual Change									
	Low			Medium			High			Low			Medium			High				
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total		
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	83,468	83,787	167,255	87,861	88,196	176,058	92,255	92,606	184,861	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	83,856	83,756	167,612	88,270	88,164	176,433	92,683	92,572	185,255	0.46%	-0.04%	0.21%	0.46%	-0.04%	0.21%	0.46%	-0.04%	0.21%	0.46%	0.21%
	84,191	83,759	167,951	88,622	88,168	176,790	93,054	92,576	185,630	0.40%	0.00%	0.20%	0.40%	0.00%	0.20%	0.40%	0.00%	0.20%	0.40%	0.20%
	84,597	84,395	168,992	89,049	88,837	177,886	93,502	93,279	186,780	0.48%	0.76%	0.62%	0.48%	0.76%	0.62%	0.48%	0.76%	0.62%	0.48%	0.62%
	84,353	84,260	168,613	88,793	88,695	177,488	93,233	93,130	186,362	-0.29%	-0.16%	-0.22%	-0.29%	-0.16%	-0.22%	-0.29%	-0.16%	-0.22%	-0.29%	-0.22%
	84,862	84,090	168,953	89,329	88,516	177,845	93,795	92,942	186,737	0.60%	-0.20%	0.20%	0.60%	-0.20%	0.20%	0.60%	-0.20%	0.20%	0.60%	0.20%
	85,233	84,058	169,292	89,719	88,482	178,202	94,205	92,906	187,112	0.44%	-0.04%	0.20%	0.44%	-0.04%	0.20%	0.44%	-0.04%	0.20%	0.44%	0.20%
	87,122	84,271	171,392	90,654	88,706	179,360	95,187	93,141	188,328	1.04%	0.25%	0.65%	1.04%	0.25%	0.65%	1.04%	0.25%	0.65%	1.04%	0.65%
	85,525	84,447	169,972	90,026	88,892	178,918	94,527	93,337	187,864	-0.69%	0.21%	-0.25%	-0.69%	0.21%	-0.25%	-0.69%	0.21%	-0.25%	-0.69%	-0.25%
	85,648	84,663	170,311	90,156	89,119	179,275	94,664	93,575	188,239	0.14%	0.26%	0.20%	0.14%	0.26%	0.20%	0.14%	0.26%	0.20%	0.14%	0.26%
	86,118	84,533	170,650	90,651	88,982	179,632	95,183	93,431	188,614	0.55%	-0.15%	0.20%	0.55%	-0.15%	0.20%	0.55%	-0.15%	0.20%	0.55%	-0.15%
	87,156	84,567	171,723	91,743	89,018	180,761	96,330	94,689	189,799	1.21%	0.04%	0.63%	1.21%	0.04%	0.63%	1.21%	0.04%	0.63%	1.21%	0.63%
	86,817	84,532	171,349	91,386	88,981	180,367	95,956	94,430	189,386	-0.39%	-0.04%	-0.22%	-0.39%	-0.04%	-0.22%	-0.39%	-0.04%	-0.22%	-0.39%	-0.22%
	87,152	84,536	171,688	91,739	88,985	180,724	96,326	94,434	189,761	0.39%	0.00%	0.20%	0.39%	0.00%	0.20%	0.39%	0.00%	0.20%	0.39%	0.20%
	87,296	84,714	172,010	91,891	89,172	181,063	96,485	95,631	190,116	0.17%	0.21%	0.19%	0.17%	0.21%	0.19%	0.17%	0.21%	0.19%	0.17%	0.19%
	88,051	85,039	173,090	92,685	89,515	182,200	97,319	93,991	191,310	0.86%	0.38%	0.63%	0.86%	0.38%	0.63%	0.86%	0.38%	0.63%	0.86%	0.63%
	87,820	84,870	172,691	92,442	89,337	181,780	97,065	93,804	190,869	-0.26%	-0.20%	-0.23%	-0.26%	-0.20%	-0.23%	-0.26%	-0.20%	-0.23%	-0.26%	-0.23%
	88,196	84,834	173,030	92,838	89,299	182,137	97,480	93,764	191,244	0.43%	-0.04%	0.20%	0.43%	-0.04%	0.20%	0.43%	-0.04%	0.20%	0.43%	-0.04%
	88,590	84,797	173,388	93,253	89,260	182,513	97,916	93,723	191,639	0.45%	-0.04%	0.21%	0.45%	-0.04%	0.21%	0.45%	-0.04%	0.21%	0.45%	0.21%
	89,263	85,212	174,475	93,961	89,697	183,658	98,659	94,182	192,841	0.76%	0.49%	0.63%	0.76%	0.49%	0.63%	0.76%	0.49%	0.63%	0.76%	0.63%

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

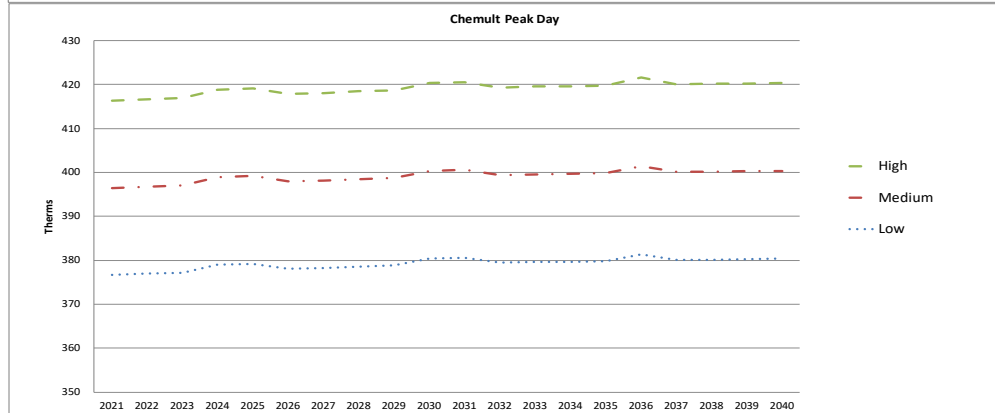
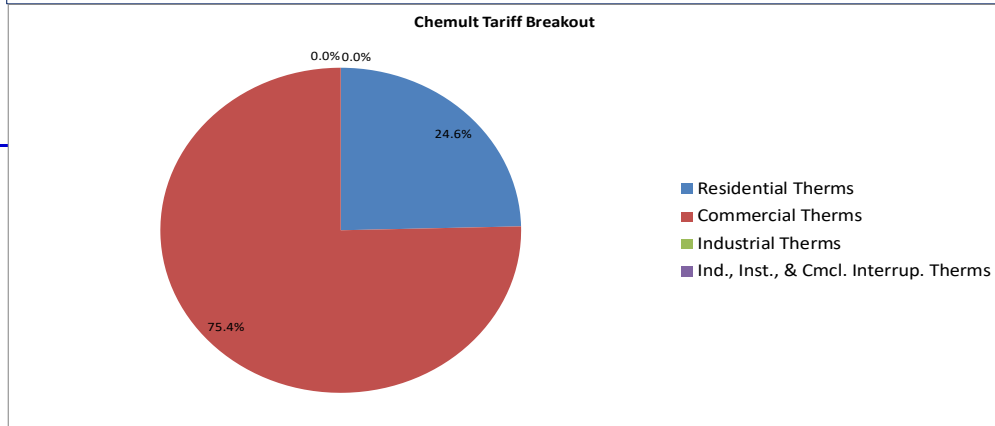
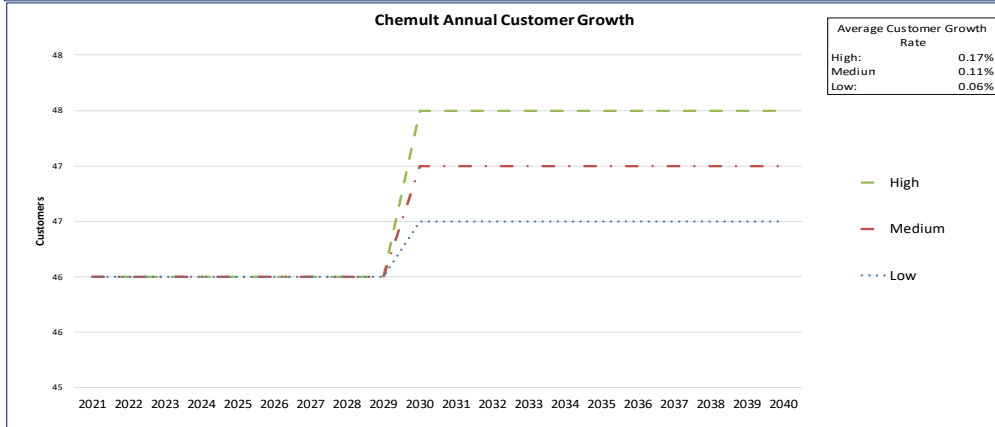
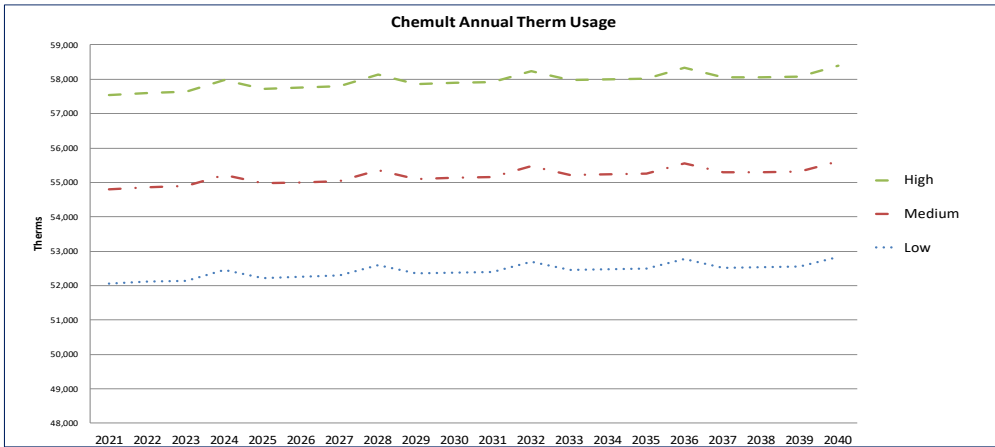
Castle Rock	Therms Usage by Class										Annual Change									
	Low			Medium			High			Low			Medium			High				
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total		
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	33,832	133,423	167,255	35,613	140,445	176,058	37,394	147,463	184,861	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	34,243	133,368	167,612	36,046	139,888	176,433	38,848	147,407	185,255	1.21%	-0.04%	0.21%	1.21%	-0.04%	0.21%	1.21%	-0.04%	0.21%	1.21%	0.21%
	34,652	133,299	167,951	36,475	140,315	176,790	38,299	147,331	185,630	1.19%	-0.05%	0.20%	1.19%	-0.05%	0.20%	1.19%	-0.05%	0.20%	1.19%	0.20%
	35,234	133,758	168,992	37,088	140,798	177,886	38,942	147,838	186,780	1.68%	0.34%	0.62%	1.68%	0.34%	0.62%	1.68%	0.34%	0.62%	1.68%	0.62%
	35,468	133,145	168,613	37,335	140,153	177,488	39,201	147,161	186,362	0.67%	-0.46%	-0.22%	0.67%	-0.46%	-0.22%	0.67%	-0.46%	-0.22%	0.67%	0.22%
	35,878	133,075	168,953	37,766	140,079	177,845	39,654	147,083	186,737	1.15%	-0.05%	0.20%	1.15%	-0.05%	0.20%	1.15%	-0.05%	0.20%	1.15%	0.20%
	36,287	133,004	169,292	38,197	140,004	178,202	40,107	147,005	187,112	1.14%	-0.05%	0.20%	1.14%	-0.05%	0.20%	1.14%	-0.05%	0.20%	1.14%	0.20%
	36,888	133,504	170,392	38,830	140,530	179,360	40,771	147,557	188,328	1.66%	0.38%	0.65%	1.66%	0.38%	0.65%	1.66%	0.38%			



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Chemult

Table with 4 main sections: Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, and Customer Count Forecast. Each section contains columns for Low, Medium, and High scenarios, with sub-columns for Heating, BaseLoad, and Total. Rows represent years from 2021 to 2040.





Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

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

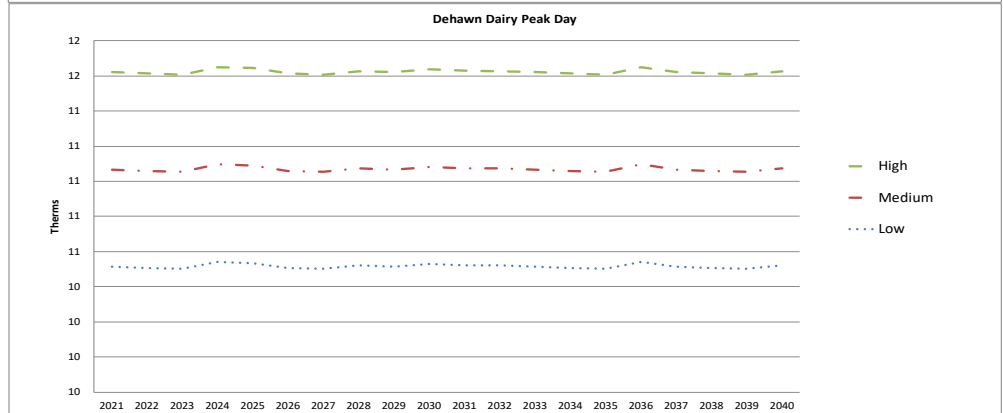
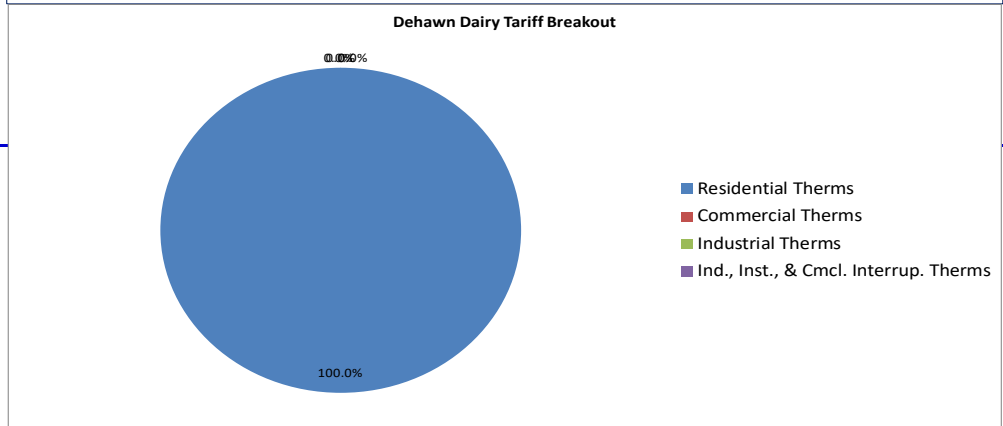
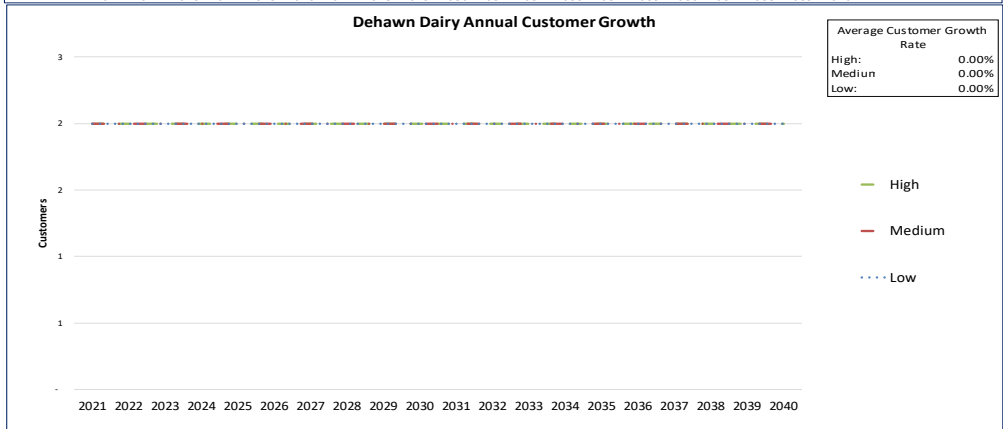
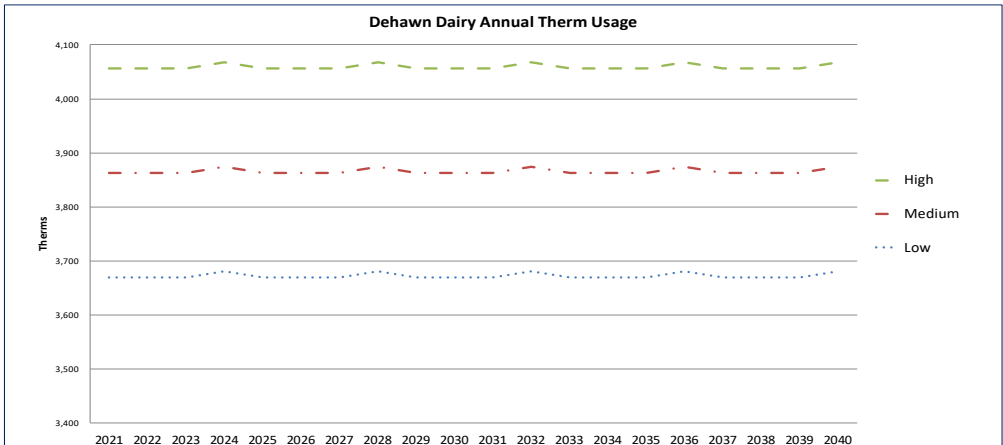
Peak Day - Baseload												
Low			Medium			High			Annual Change			
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	
2021	9	1	11	10	1	11	10	1	12	0.00%	0.00%	0.00%
2022	9	1	11	10	1	11	10	1	12	0.02%	-0.73%	-0.06%
2023	9	1	11	10	1	11	10	1	12	0.02%	-0.76%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

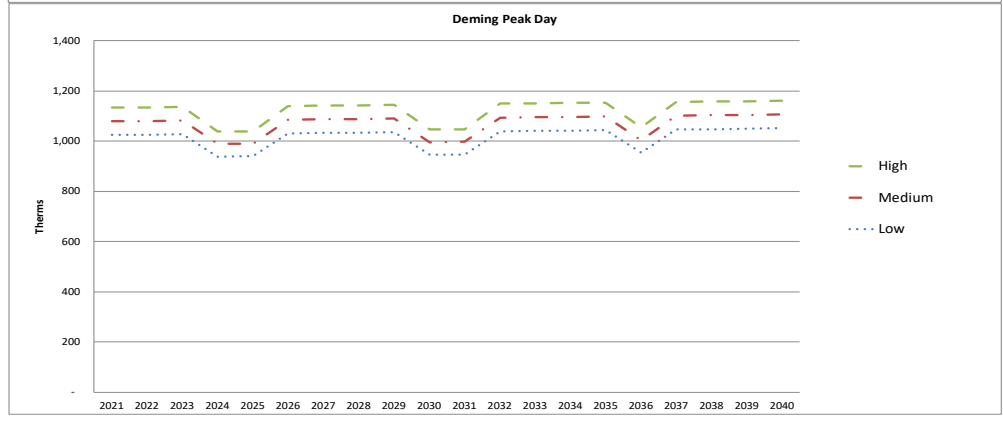
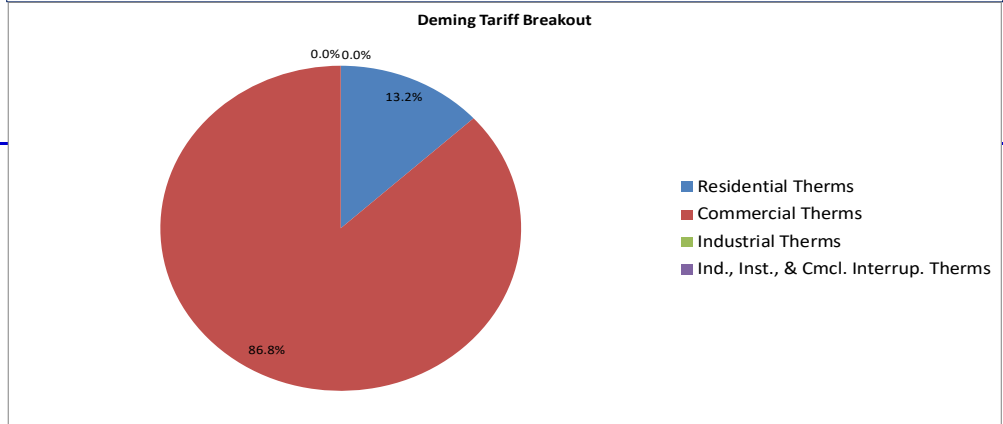
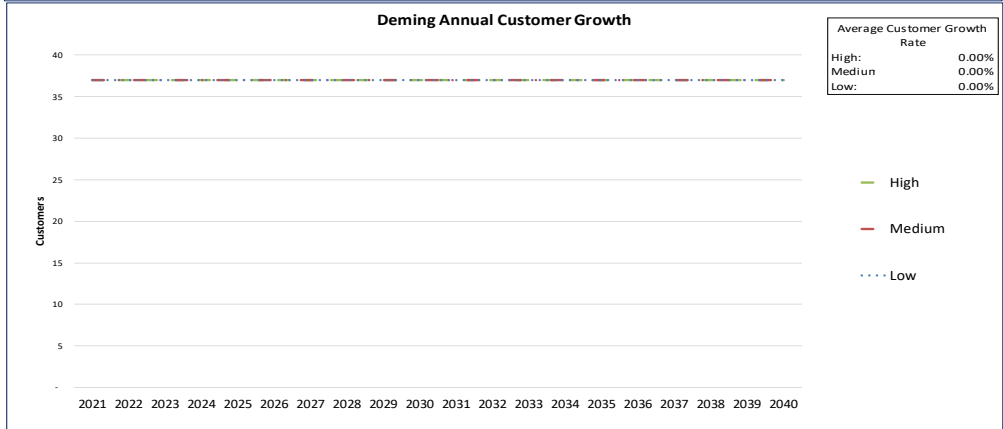
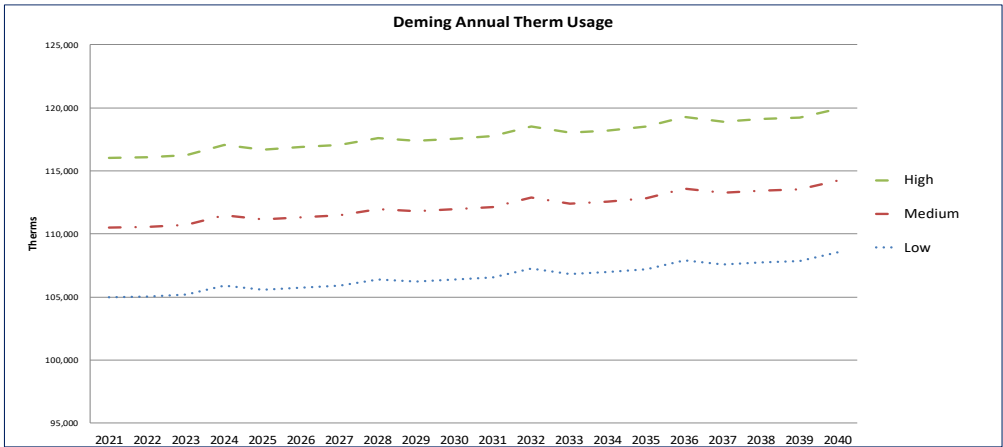
Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2022	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%
2023	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%
2024	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%
2025	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	-0.29%	0.00%	-0.29%
2026	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2027	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2028	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%
2029	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	-0.29%	0.00%	-0.29%
2030	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2031	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2032	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%
2033	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	-0.29%	0.00%	-0.29%
2034	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%
2035	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2036	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%
2037	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	-0.29%	0.00%	-0.29%
2038	3,670	-	3,670	3,863	-	3,863	4,056	-	4,056	0.00%	0.00%	0.00%
2039	3,670	-	3,670	3,863	-	3,863	4,057	-	4,057	0.00%	0.00%	0.00%
2040	3,681	-	3,681	3,875	-	3,875	4,068	-	4,068	0.29%	0.00%	0.29%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2022	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2023	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2024	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2025	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2026	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2027	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2028	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2029	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2030	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2031	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2032	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2033	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2034	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2035	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2036	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2037	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2038	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2039	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%
2040	2	-	2	2	-	2	2	-	2	0.00%	0.00%	0.00%







Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

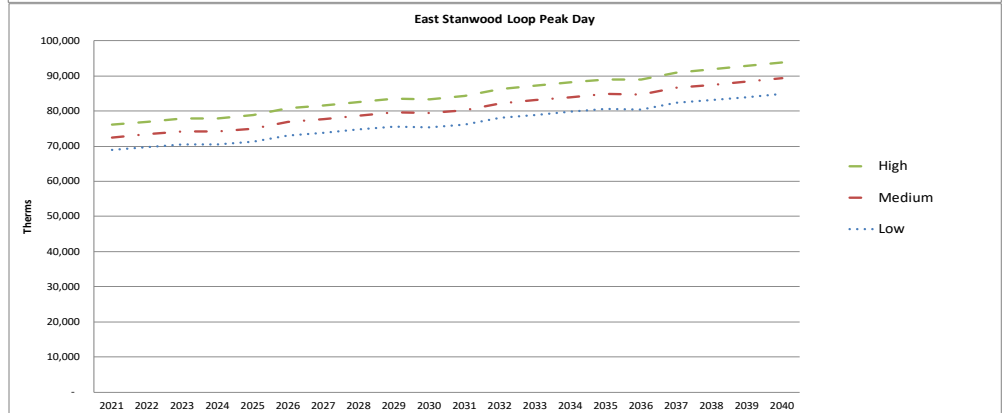
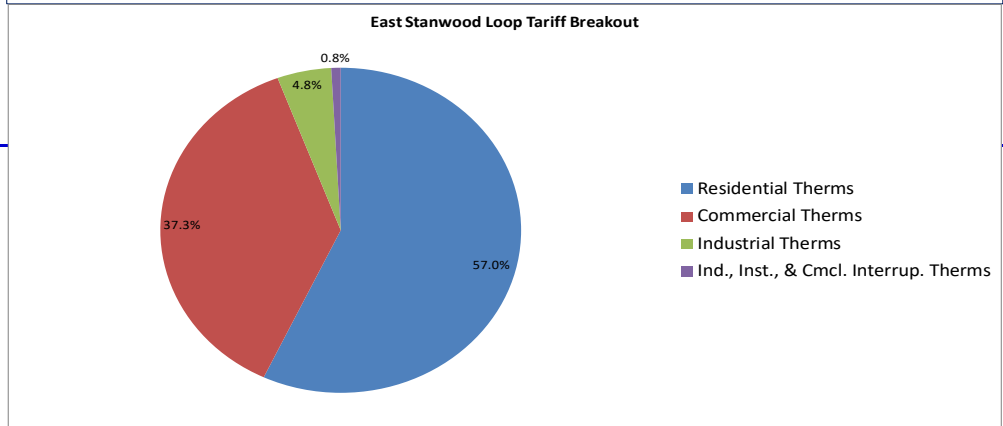
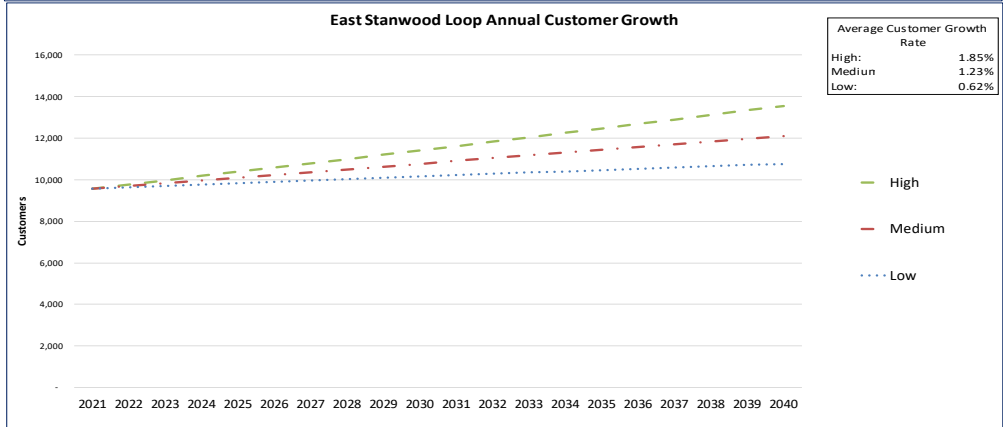
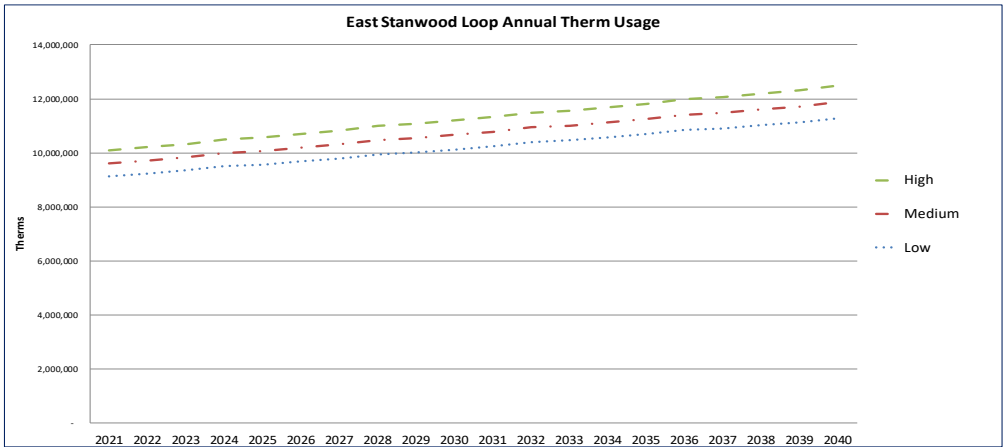
East Stanwood Loop

Table with columns for Annual Requirements (Therms) and Annual Change, categorized by Low, Medium, and High usage levels. Rows include Heating, BaseLoad, and Total for years 2021-2040.

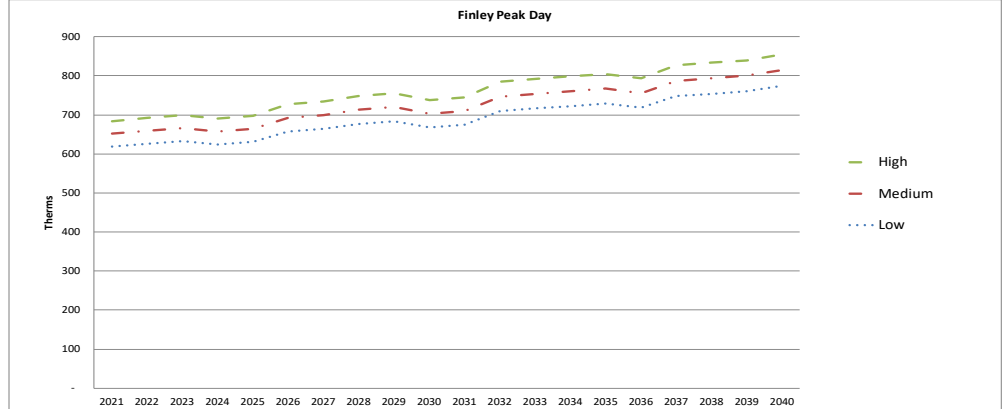
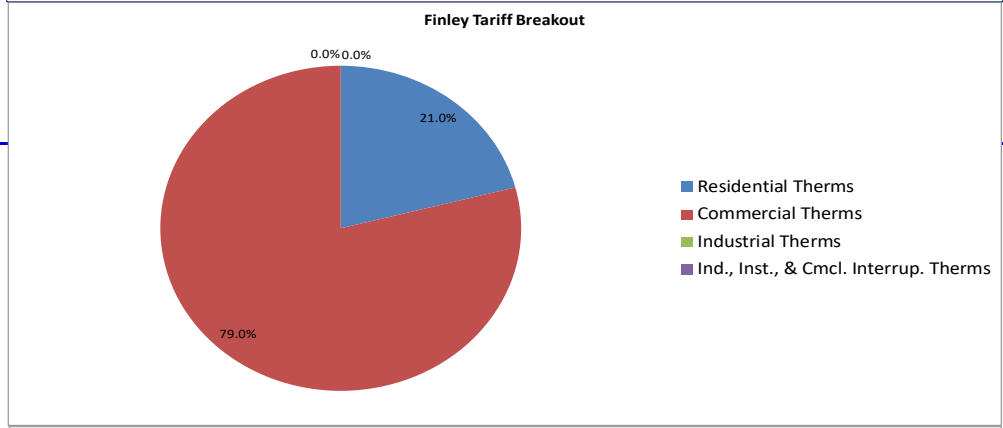
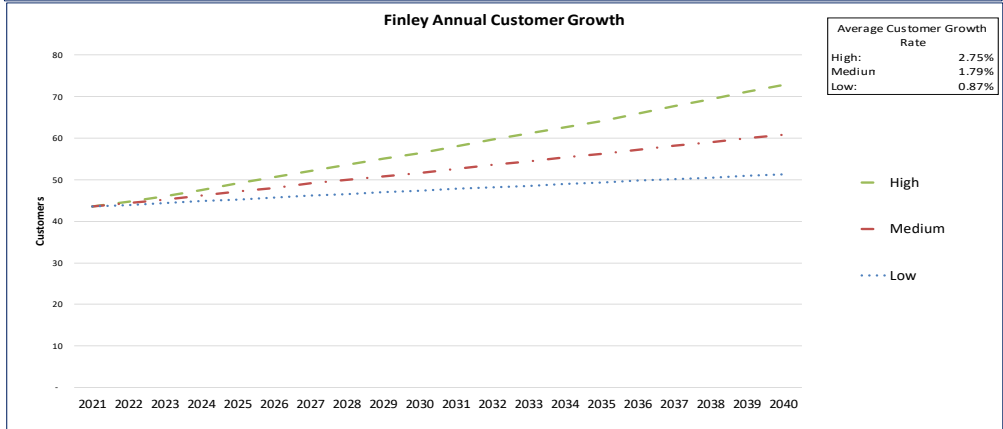
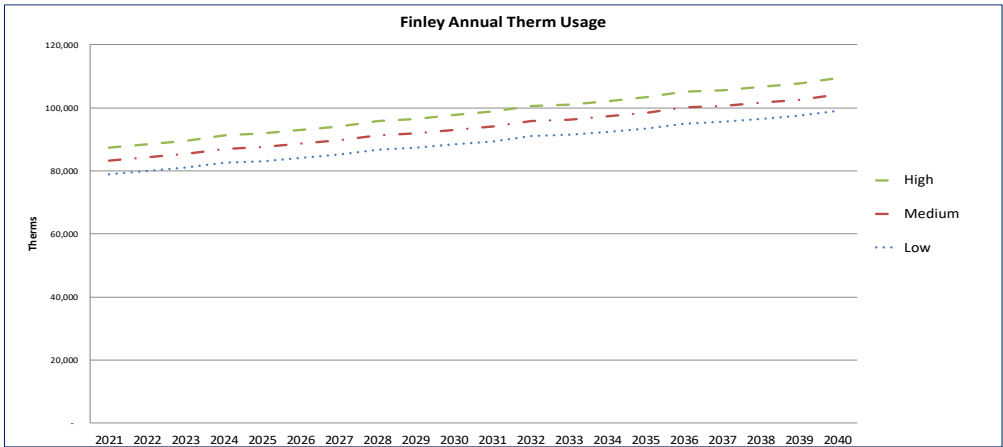
Table with columns for Peak Day - BaseLoad and Annual Change, categorized by Low, Medium, and High usage levels. Rows include Daily BaseLoad, Peak, and Total for years 2021-2040.

Table with columns for Therms Usage by Class and Annual Change, categorized by Low, Medium, and High usage levels. Rows include Res, Com/Ind, and Total for years 2021-2040.

Table with columns for Customer Count Forecast and Annual Change, categorized by Low, Medium, and High usage levels. Rows include Res, Com/Ind, and Total for years 2021-2040.









Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

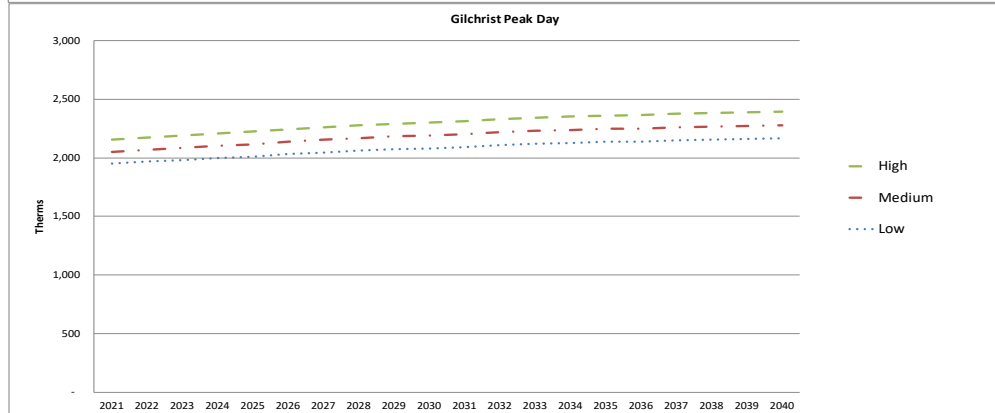
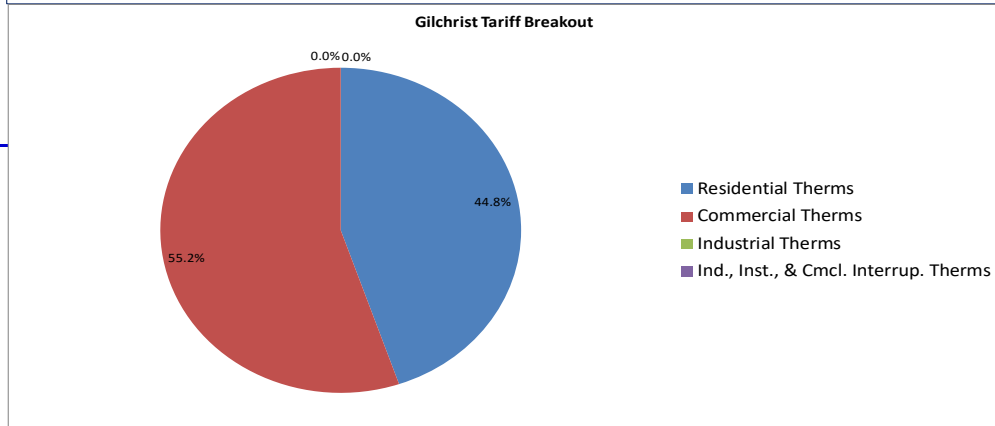
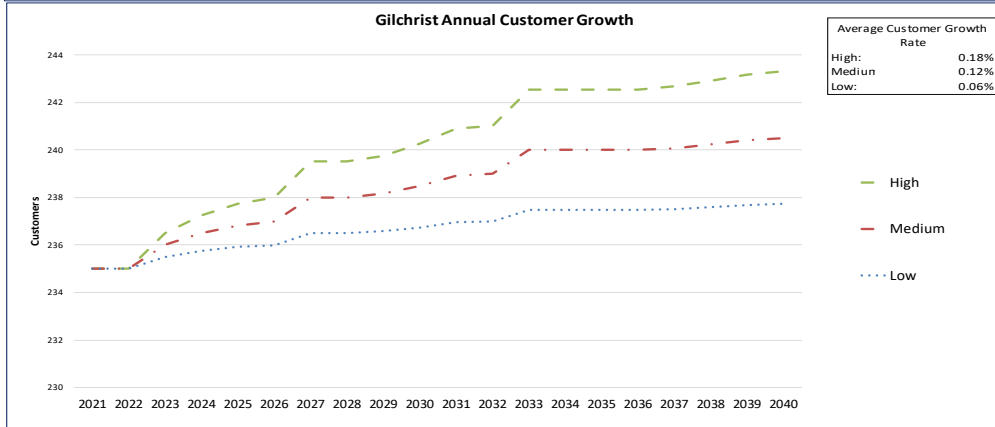
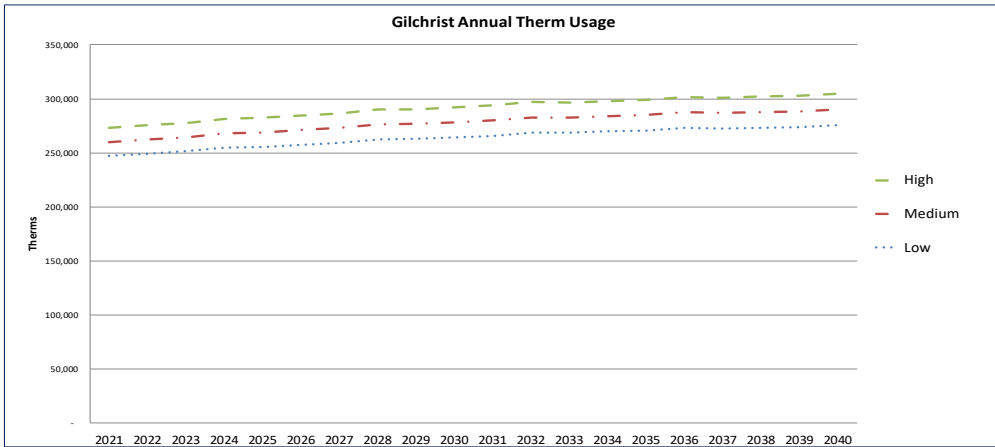
Year	Annual Requirements (Therms)									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	196,882	50,180	247,063	207,245	52,822	260,066	217,607	55,463	273,069	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	198,706	50,540	249,246	209,164	53,199	262,364	219,623	55,859	275,482	0.93%	0.72%	0.88%	0.93%	0.72%	0.88%	0.93%	0.72%	0.88%
2023	200,453	50,949	251,402	211,003	53,630	264,633	221,553	56,312	277,865	0.88%	0.81%	0.86%	0.88%	0.81%	0.86%	0.88%	0.81%	0.86%
2024	203,244	51,585	254,828	213,941	54,300	268,240	224,638	57,015	281,652	1.39%	1.25%	1.36%	1.39%	1.25%	1.36%	1.39%	1.25%	1.36%
2025	203,591	51,971	255,562	214,306	54,706	269,012	225,021	57,442	282,463	0.17%	0.29%	0.17%	0.29%	0.29%	0.17%	0.29%	0.17%	0.29%
2026	205,177	52,339	257,516	215,976	55,093	271,069	226,775	57,848	284,623	0.78%	0.71%	0.76%	0.78%	0.71%	0.76%	0.78%	0.71%	0.76%
2027	206,763	52,633	259,396	217,645	55,403	273,048	228,527	58,173	286,700	0.77%	0.56%	0.73%	0.77%	0.56%	0.73%	0.77%	0.56%	0.73%
2028	209,488	53,029	262,517	220,514	55,820	276,334	231,540	58,611	290,151	1.32%	0.75%	1.20%	1.32%	0.75%	1.20%	1.32%	0.75%	1.20%
2029	209,452	53,398	262,850	220,475	56,209	276,684	231,499	59,019	290,518	-0.02%	0.70%	0.13%	-0.02%	0.70%	0.13%	-0.02%	0.70%	0.13%
2030	210,691	53,751	264,443	221,780	56,580	278,361	232,869	59,409	292,279	0.59%	0.66%	0.61%	0.59%	0.66%	0.61%	0.59%	0.66%	0.61%
2031	211,897	54,021	265,919	223,050	56,864	279,914	234,202	59,708	293,910	0.57%	0.50%	0.56%	0.57%	0.50%	0.56%	0.57%	0.50%	0.56%
2032	214,359	54,341	268,700	225,641	57,201	282,842	236,923	60,061	296,984	1.16%	0.59%	1.05%	1.16%	0.59%	1.05%	1.16%	0.59%	1.05%
2033	214,067	54,504	268,571	225,333	57,373	282,706	236,600	60,241	296,841	-0.14%	0.30%	-0.05%	-0.14%	0.30%	-0.05%	-0.14%	0.30%	-0.05%
2034	215,029	54,709	269,739	226,347	57,589	283,935	237,664	60,468	299,132	0.45%	0.38%	0.43%	0.45%	0.38%	0.43%	0.45%	0.38%	0.43%
2035	215,842	54,953	270,795	227,202	57,845	285,047	238,562	60,738	299,300	0.38%	0.45%	0.39%	0.38%	0.45%	0.39%	0.38%	0.45%	0.39%
2036	217,826	55,302	273,128	229,294	58,213	287,507	240,758	61,124	301,892	0.92%	0.64%	0.86%	0.92%	0.64%	0.86%	0.92%	0.64%	0.86%
2037	217,095	55,433	272,528	228,521	58,350	286,872	239,947	61,268	301,215	-0.34%	0.24%	-0.22%	-0.34%	0.24%	-0.22%	-0.34%	0.24%	-0.22%
2038	217,756	55,483	273,239	229,217	58,403	287,620	240,678	61,323	302,001	0.30%	0.09%	0.26%	0.30%	0.09%	0.26%	0.30%	0.09%	0.26%
2039	218,336	55,514	273,849	229,827	58,435	288,262	241,318	61,357	302,675	0.27%	0.06%	0.22%	0.27%	0.06%	0.22%	0.27%	0.06%	0.22%
2040	220,039	55,789	275,828	231,620	58,725	290,345	243,201	61,661	304,862	0.78%	0.50%	0.72%	0.78%	0.50%	0.72%	0.78%	0.50%	0.72%

Year	Peak Day - BaseLoad									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	137	1,813	1,950	145	1,908	2,053	152	2,003	2,155	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	138	1,828	1,967	146	1,925	2,070	153	2,021	2,174	0.72%	0.87%	0.86%	0.72%	0.87%	0.86%	0.72%	0.87%	0.86%
2023	140	1,844	1,983	147	1,941	2,088	154	2,038	2,192	0.81%	0.84%	0.84%	0.81%	0.84%	0.84%	0.81%	0.84%	0.84%
2024	141	1,855	1,996	149	1,952	2,101	156	2,050	2,206	1.25%	0.60%	0.64%	1.25%	0.60%	0.64%	1.25%	0.60%	0.64%
2025	142	1,869	2,011	150	1,968	2,118	157	2,066	2,224	0.75%	0.79%	0.79%	0.75%	0.79%	0.79%	0.75%	0.79%	0.79%
2026	143	1,888	2,032	151	1,988	2,139	158	2,087	2,246	0.71%	0.10%	0.99%	0.71%	0.10%	0.99%	0.71%	0.10%	0.99%
2027	144	1,902	2,046	152	2,002	2,154	159	2,102	2,261	0.56%	0.72%	0.71%	0.56%	0.72%	0.71%	0.56%	0.72%	0.71%
2028	145	1,916	2,061	153	2,017	2,170	161	2,118	2,278	0.75%	0.74%	0.74%	0.75%	0.74%	0.74%	0.75%	0.74%	0.74%
2029	146	1,928	2,074	154	2,029	2,183	162	2,131	2,292	0.70%	0.61%	0.62%	0.70%	0.61%	0.62%	0.70%	0.61%	0.62%
2030	147	1,934	2,081	155	2,035	2,190	163	2,137	2,300	0.66%	0.31%	0.34%	0.66%	0.31%	0.34%	0.66%	0.31%	0.34%
2031	148	1,944	2,092	156	2,046	2,202	164	2,149	2,312	0.50%	0.54%	0.54%	0.50%	0.54%	0.54%	0.50%	0.54%	0.54%
2032	149	1,960	2,109	157	2,064	2,220	165	2,167	2,331	0.59%	0.85%	0.83%	0.59%	0.85%	0.83%	0.59%	0.85%	0.83%
2033	149	1,970	2,119	157	2,073	2,230	165	2,177	2,342	0.30%	0.46%	0.45%	0.30%	0.46%	0.45%	0.30%	0.46%	0.45%
2034	150	1,978	2,128	158	2,082	2,240	166	2,186	2,352	0.38%	0.42%	0.41%	0.38%	0.42%	0.41%	0.38%	0.42%	0.41%
2035	151	1,985	2,135	158	2,089	2,248	166	2,194	2,360	0.45%	0.36%	0.37%	0.45%	0.36%	0.37%	0.45%	0.36%	0.37%
2036	152	1,987	2,139	159	2,092	2,251	167	2,196	2,364	0.64%	0.12%	0.15%	0.64%	0.12%	0.15%	0.64%	0.12%	0.15%
2037	152	1,998	2,150	160	2,103	2,263	168	2,208	2,376	0.24%	0.55%	0.52%	0.24%	0.55%	0.52%	0.24%	0.55%	0.52%
2038	152	2,003	2,155	160	2,108	2,269	168	2,214	2,382	0.09%	0.25%	0.24%	0.09%	0.25%	0.24%	0.09%	0.25%	0.24%
2039	152	2,007	2,159	160	2,113	2,273	168	2,219	2,387	0.06%	0.22%	0.20%	0.06%	0.22%	0.20%	0.06%	0.22%	0.20%
2040	153	2,012	2,165	161	2,118	2,279	169	2,224	2,393	0.50%	0.24%	0.26%	0.50%	0.24%	0.26%	0.50%	0.24%	0.26%

Year	Therms Usage by Class									Annual Change								
	Low			Medium			High			Low			Medium			High		
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	111,303	136,760	248,063	117,161	142,905	260,066	123,019	150,550	273,609	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	112,340	136,906	249,246	118,253	144,111	262,364	124,165	151,317	275,482	0.93%	0.84%	0.88%	0.93%	0.84%	0.88%	0.93%	0.84%	0.88%
2023	113,363	138,038	251,402	119,330	145,303	264,633	125,296	152,568	277,865	0.91%	0.83%	0.86%	0.91%	0.83%	0.86%	0.91%	0.83%	0.86%
2024	114,921	139,907	254,828	120,969	147,271	268,240	127,018	154,634	281,652	1.37%	1.35%	1.36%	1.37%	1.35%	1.36%	1.37%	1.35%	1.36%
2025	115,339	140,223	255,562	121,410	147,603	269,012	127,480	154,983	282,463	0.36%	0.23%	0.29%	0.36%	0.23%	0.29%	0.36%	0.23%	0.29%
2026	116,267	141,249	257,516	122,386	148,683	271,069	128,505	156,118	284,623	0.80%	0.73%	0.76%	0.80%	0.73%	0.76%	0.80%	0.73%	0.76%
2027	117,159	142,237	259,396	123,325	149,723	273,048	129,491	157,209	286,700	0.77%	0.70%	0.73%	0.77%	0.70%	0.73%	0.77%	0.70%	0.73%
2028	118,572	143,945	262,517	124,813	151,521	276,334	131,053	159,097	290,151	1.21%	1.20%	1.21%	1.21%	1.20%	1.21%	1.21%	1.20%	1.21%
2029	118,800	144,050	262,850	125,052	151,632	276,684	131,305	159,213	290,518	0.19%	0.07%	0.13%	0.19%	0.07%	0.13%	0.19%	0.07%	0.13%
2030	119,556	144,887	264,443	125,848	152,512	278,361	132,141	160,138	292,279	0.64%	0.58%	0.61%	0.64%	0.58%	0.61%	0.64%	0.58%	0.61%
2031	120,256	145,662	265,919	126,586	153,329	279,914	132,915	160,995	293,910	0.59%	0.54%	0.56%	0.59%	0.54%	0.56%	0.59%	0.54%	0.56%
2032	121,506	147,194	268,700	127,901	154,941	282,842	134,296	162,688	296,984	1.04%	1.05%	1.05%	1.04%	1.05%	1.05%	1.04%	1.05%	1.05%
2033	121,517	147,054	268,571	127,913	154,793	282,706	134,308	162,533	296,841	0.01%	-0.10%	-0.05%	0.01%	-0.10%	-0.05%	0.01%	-0.10%	-0.05%
2034	122,071	147,667	269,739	128,496	155,439	283,935	134,921	163,211	298,132	0.46%	0.42%	0.43%	0.46%	0.42%	0.43%	0.46%	0.42%	0.43%
2035	122,572	148,223	270,795	129,023	156,024	285,047	135,474	163,825	299,300	0.41%	0.38%	0.39%	0.41%	0.38%	0.39%	0.41%	0.38%	0.39%
2036	123,609	149,522	273,131	130,115	157,392	287,507	136,621	165,261	301,892	0.85%	0.88%	0.85%	0.85%	0.88%	0.85%	0.85%	0.88%	0.86%
2037	123,395	149,133	272,528	129,890	156,982	286,872	136,385	164,831	301,215	-0.17%	-0.26%	-0.22%	-0.17%	-0.26%	-0.22%	-0.17%	-0.26%	-0.22%
2038	123,733	149,506	273,239	130,245	157,375	287,620	136,757	165,244	302,001	0.27%	0.25%	0.26%	0.27%	0.25%	0.26%	0.27%	0.25%	0.26%
2039	124,023	149,826	273,849	130,550	157,712	288,262	137,078	165,598	302,675	0.23%</								



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

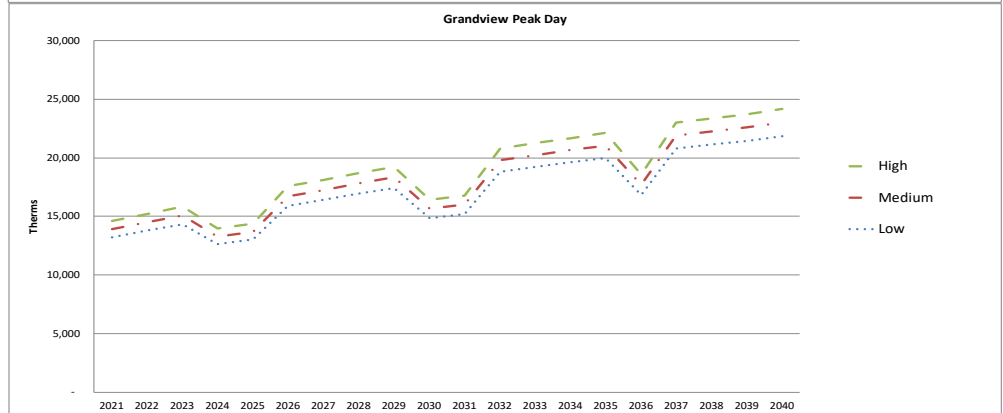
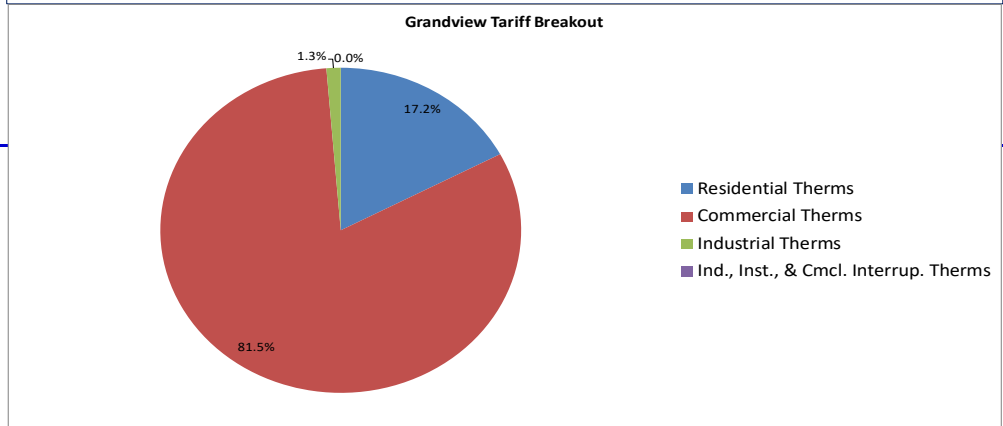
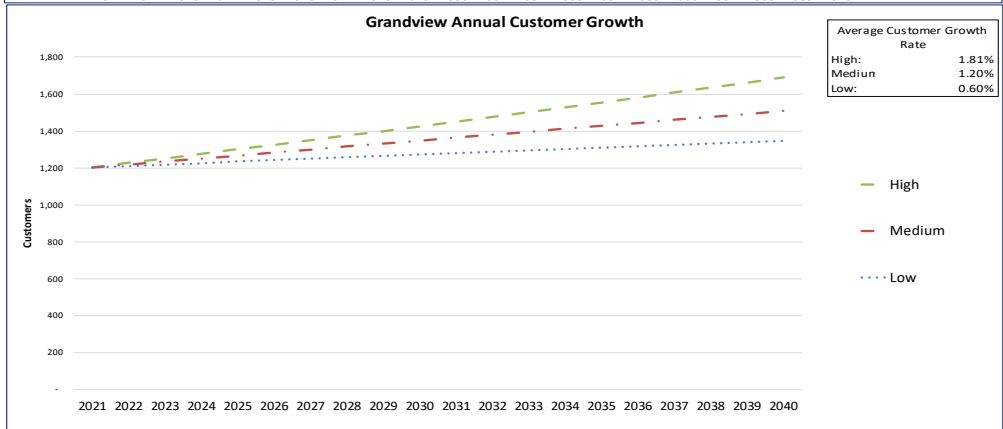
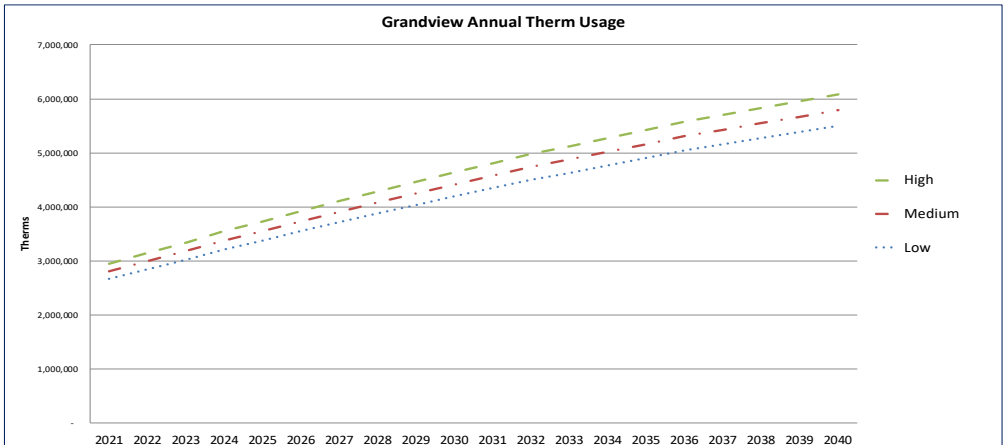
Grandview																	
Annual Requirements (Therms)											Annual Change						
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,008,562	660,456	2,669,018	2,114,276	695,217	2,809,492	2,219,990	729,977	2,949,967	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,143,097	704,037	2,847,134	2,255,892	741,091	2,996,983	2,368,686	778,146	3,146,832	6.70%	6.60%	6.67%	6.70%	6.60%	6.67%	6.70%	6.67%
2023	2,037,246	988,428	3,025,673	2,144,469	1,040,450	3,184,920	2,251,693	1,092,473	3,344,165	-4.94%	40.39%	6.27%	-4.94%	40.39%	6.27%	-4.94%	40.39%
2024	2,151,011	1,061,412	3,212,423	2,264,222	1,117,276	3,381,499	2,377,433	1,173,140	3,550,573	5.58%	7.38%	6.17%	5.58%	7.38%	6.17%	5.58%	7.38%
2025	2,264,705	1,114,477	3,379,183	2,385,900	1,173,134	3,557,034	2,503,095	1,231,791	3,734,886	5.29%	5.00%	5.19%	5.29%	5.00%	5.19%	5.29%	5.00%
2026	2,626,647	923,506	3,550,153	2,764,892	972,112	3,737,004	2,903,137	1,020,717	3,923,854	15.98%	-17.14%	5.06%	15.98%	-17.14%	5.06%	15.98%	-17.14%
2027	2,763,940	953,836	3,717,776	2,909,411	1,004,037	3,913,448	3,054,881	1,054,239	4,109,121	5.23%	3.28%	4.72%	5.23%	3.28%	4.72%	5.23%	3.28%
2028	2,563,129	1,321,628	3,884,757	2,669,030	1,391,188	4,089,218	2,832,932	1,460,747	4,293,679	-7.27%	38.56%	4.49%	-7.27%	38.56%	4.49%	-7.27%	38.56%
2029	2,642,572	1,398,509	4,041,081	2,781,655	1,472,115	4,253,769	2,920,738	1,545,720	4,466,458	3.10%	5.82%	4.02%	3.10%	5.82%	4.02%	3.10%	5.82%
2030	2,733,967	1,462,940	4,196,907	2,877,859	1,539,937	4,417,797	3,021,752	1,616,934	4,638,687	3.46%	4.61%	3.86%	3.46%	4.61%	3.86%	3.46%	4.61%
2031	2,855,291	1,493,110	4,348,401	3,005,569	1,571,695	4,577,264	3,155,847	1,650,280	4,806,127	4.44%	2.06%	3.61%	4.44%	2.06%	3.61%	4.44%	2.06%
2032	3,315,378	1,190,007	4,505,385	3,489,872	1,252,639	4,742,511	3,664,365	1,315,271	4,979,636	16.11%	-20.30%	3.61%	16.11%	-20.30%	3.61%	16.11%	-20.30%
2033	3,420,480	1,214,088	4,634,568	3,600,505	1,277,988	4,878,493	3,780,531	1,341,887	5,122,418	3.17%	2.02%	2.87%	3.17%	2.02%	2.87%	3.17%	2.02%
2034	3,092,822	1,679,381	4,772,203	3,255,602	1,767,770	5,023,372	3,418,382	1,856,158	5,274,540	-9.58%	38.32%	2.97%	-9.58%	38.32%	2.97%	-9.58%	38.32%
2035	3,157,240	1,751,008	4,908,248	3,323,411	1,843,166	5,166,577	3,489,581	1,935,234	5,424,906	2.08%	4.27%	2.85%	2.08%	4.27%	2.85%	2.08%	4.27%
2036	3,278,783	1,767,765	5,046,548	3,451,350	1,860,805	5,312,156	3,623,918	1,953,845	5,577,763	3.85%	0.96%	2.82%	3.85%	0.96%	2.82%	3.85%	0.96%
2037	3,756,508	1,401,288	5,157,796	3,954,219	1,475,040	5,429,259	4,151,930	1,548,792	5,700,722	14.57%	-20.73%	2.20%	14.57%	-20.73%	2.20%	14.57%	-20.73%
2038	3,873,001	1,402,387	5,275,388	4,076,843	1,476,197	5,553,040	4,280,865	1,550,206	5,830,992	3.10%	0.08%	2.28%	3.10%	0.08%	2.28%	3.10%	0.08%
2039	3,970,611	1,414,398	5,385,009	4,179,590	1,488,840	5,668,430	4,388,570	1,562,282	5,951,851	2.52%	0.86%	2.08%	2.52%	0.86%	2.08%	2.52%	0.86%
2040	3,530,182	1,976,226	5,506,407	3,715,981	2,080,238	5,796,218	3,901,779	2,184,250	6,086,029	-11.09%	39.72%	2.25%	-11.09%	39.72%	2.25%	-11.09%	39.72%

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

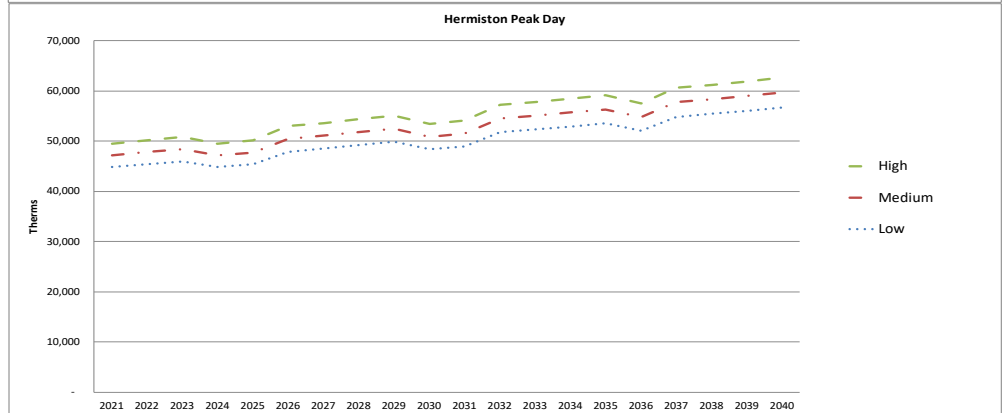
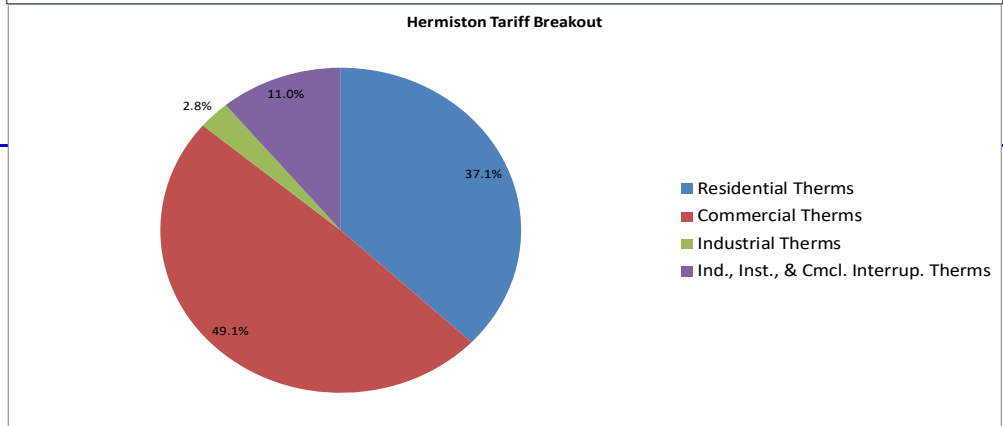
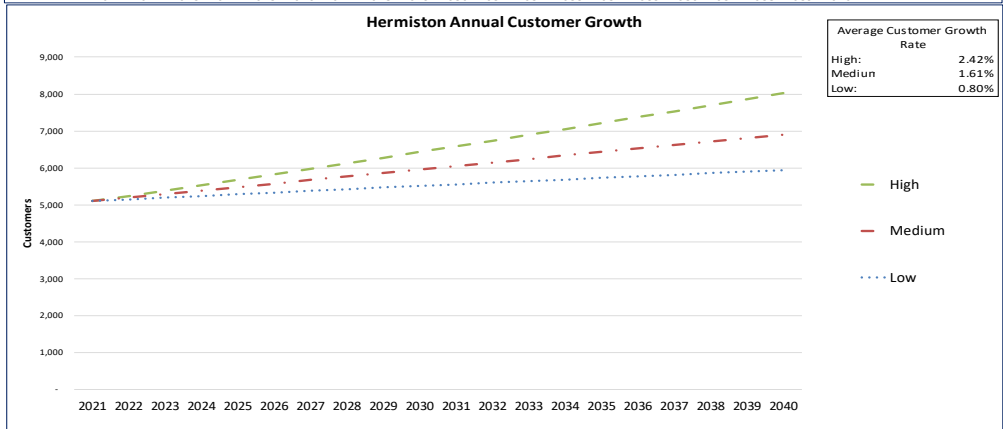
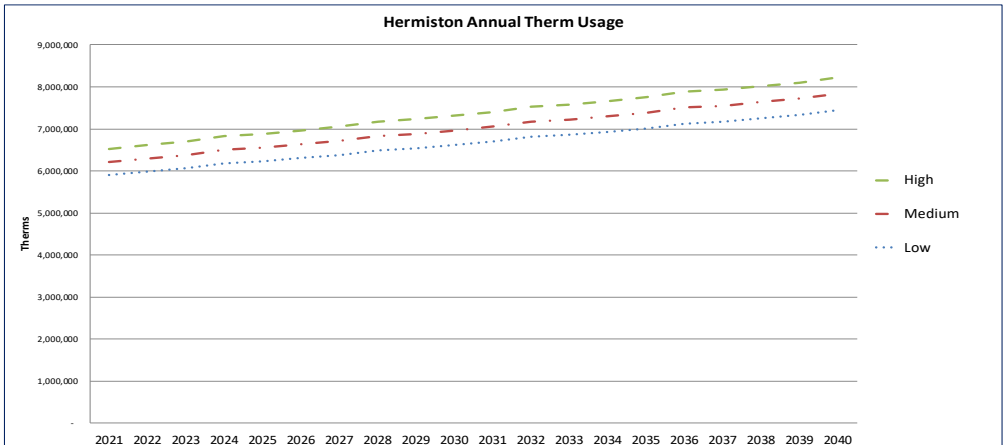
  

Therms Usage by Class																							
Low				Medium				High				Low				Medium				High			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total			
2021	539,328	2,129,689	2,669,018	567,714	2,241,778	2,809,492	596,100	2,353,867	2,949,967	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	545,730	2,301,403	2,847,134	574,453	2,422,530	2,996,983	603,176	2,543,566	3,146,832	1.19%	8.06%	6.67%	1.19%	8.06%	6.67%	1.19%	8.06%	6.67%	1.19%	8.06%			
2023	552,403	2,473,271	3,025,673	581,476	2,603,443	3,184,920	610,550	2,733,615	3,344,165	1.22%	7.47%	6.27%	1.22%	7.47%	6.27%	1.22%	7.47%	6.27%	1.22%	7.47%			
2024	561,516	2,650,907	3,212,423	591,069	2,790,429	3,381,499	620,623	2,929,590	3,550,573	1.65%	7.18%	6.17%	1.65%	7.18%	6.17%	1.65%	7.18%	6.17%	1.65%	7.18%			
2025	565,885	2,812,297	3,379,183	595,669	2,961,366	3,557,034	625,452	3,109,434	3,734,886	0.78%	6.13%	5.19%	0.78%	6.13%	5.19%	0.78%	6.13%	5.19%	0.78%	6.13%			
2026	572,267	2,977,887	3,550,153	602,386	3,134,619	3,737,004	632,505	3,291,249	3,923,854	1.13%	5.85%	5.06%	1.13%	5.85%	5.06%	1.13%	5.85%	5.06%	1.13%	5.85%			
2027	578,554	3,139,222	3,717,776	609,004	3,304,444	3,913,448	639,454	3,469,667	4,109,121	1.10%	5.42%	4.72%	1.10%	5.42%	4.72%	1.10%	5.42%	4.72%	1.10%	5.42%			
2028	586,161	3,298,597	3,884,757	617,011	3,472,207	4,089,218	647,862	3,645,817	4,293,679	1.31%	5.08%	4.49%	1.31%	5.08%	4.49%	1.31%	5.08%	4.49%	1.31%	5.08%			
2029	590,657	3,450,424	4,041,081	621,744	3,632,025	4,253,769	652,832	3,813,626	4,466,458	0.77%	4.60%	4.02%	0.77%	4.60%	4.02%	0.77%	4.60%	4.02%	0.77%	4.60%			
2030	596,483	3,600,424	4,196,907	627,877	3,789,920	4,417,797	659,271	3,979,416	4,638,687	0.99%	4.35%	3.86%	0.99%	4.35%	3.86%	0.99%	4.35%	3.86%	0.99%	4.35%			
2031	602,134	3,746,267	4,348,401	633,825	3,943,439	4,577,264	665,516	4,140,611	4,806,127	0.95%	4.05%	3.61%	0.95%	4.05%	3.61%	0.95%	4.05%	3.61%	0.95%	4.05%			
2032	609,960	3,895,425	4,505,385	642,063	4,100,447	4,742,511	674,167	4,305,470	4,979,636	1.30%	3.98%	3.61%	1.30%	3.98%	3.61%	1.30%	3.98%	3.61%	1.30%	3.98%			
2033	612,591	4,021,978	4,634,568	644,832	4,233,661	4,878,493	677,074	4,445,344	5,122,418	0.43%	3.25%	2.87%	0.43%	3.25%	2.87%	0.43%	3.25%	2.87%	0.43%	3.25%			
2034	617,732	4,154,471	4,772,203	650,244	4,373,128	5,023,372	682,756	4,591,784	5,274,540	0.84%	3.29%	2.97%	0.84%	3.29%	2.97%	0.84%	3.29%	2.97%	0.84%	3.29%			
2035	623,088	4,285,160	4,908,248	655,882	4,510,695	5,166,577	688,676	4,736,230	5,424,906	0.87%	3.15%	2.											



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with 10 main sections: Hermiston, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Annual Change, Therms Usage by Class, Annual Change, Customer Count Forecast, Annual Change. Each section contains a grid of data for years 2021-2040 across Low, Medium, and High scenarios.



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

Huntington												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	87,259	3,223	90,482	91,852	3,393	95,244	96,444	3,562	100,007	0.00%	0.00%	0.00%
2022	89,120	3,506	92,626	93,811	3,691	97,501	98,501	3,875	102,376	2.13%	8.79%	2.37%
2023	91,199	3,586	94,785	95,999	3,775	99,774	100,799	3,963	104,763	2.33%	2.27%	2.33%
2024	94,225	3,347	97,572	99,185	3,523	102,708	104,144	3,699	107,843	3.32%	-6.66%	2.94%
2025	95,870	3,335	99,205	100,915	3,511	104,426	105,961	3,686	109,647	1.74%	-0.35%	1.67%
2026	97,982	3,437	101,420	103,139	3,618	106,757	108,296	3,799	112,095	2.20%	3.07%	2.23%
2027	99,945	3,730	103,675	105,205	3,926	109,131	110,465	4,123	114,588	2.00%	8.51%	2.22%
2028	102,718	3,832	106,550	108,124	4,034	112,158	113,530	4,236	117,766	2.77%	2.75%	2.77%
2029	104,370	3,899	108,270	109,863	4,105	113,968	115,357	4,310	119,666	1.61%	1.74%	1.61%
2030	106,738	3,863	110,601	112,356	4,066	116,422	117,974	4,269	122,243	2.27%	-0.93%	2.15%
2031	109,119	3,846	112,965	114,862	4,048	118,911	120,605	4,251	124,856	2.23%	-0.44%	2.23%
2032	112,098	3,964	116,061	117,998	4,172	122,170	123,897	4,381	128,278	2.73%	3.06%	2.73%
2033	113,463	4,308	117,771	119,435	4,535	123,970	125,407	4,661	130,168	1.22%	8.68%	1.47%
2034	115,817	4,396	120,213	121,913	4,627	126,540	128,009	4,859	132,867	2.07%	2.05%	2.07%
2035	118,253	4,472	122,725	124,477	4,707	129,185	130,701	4,943	135,644	2.10%	1.73%	2.09%
2036	121,949	4,064	126,014	128,368	4,278	132,646	134,786	4,492	139,738	3.13%	-9.12%	2.68%
2037	123,614	4,182	127,796	130,120	4,402	134,522	136,626	4,622	141,248	1.36%	2.89%	1.41%
2038	125,833	4,536	130,370	132,456	4,775	137,231	139,079	5,014	144,093	1.80%	8.47%	2.01%
2039	128,034	4,921	132,956	134,773	5,180	139,953	141,512	5,499	146,951	1.75%	8.49%	1.80%
2040	131,663	4,726	136,389	138,593	4,975	143,567	145,522	5,223	150,746	2.83%	-3.97%	2.58%

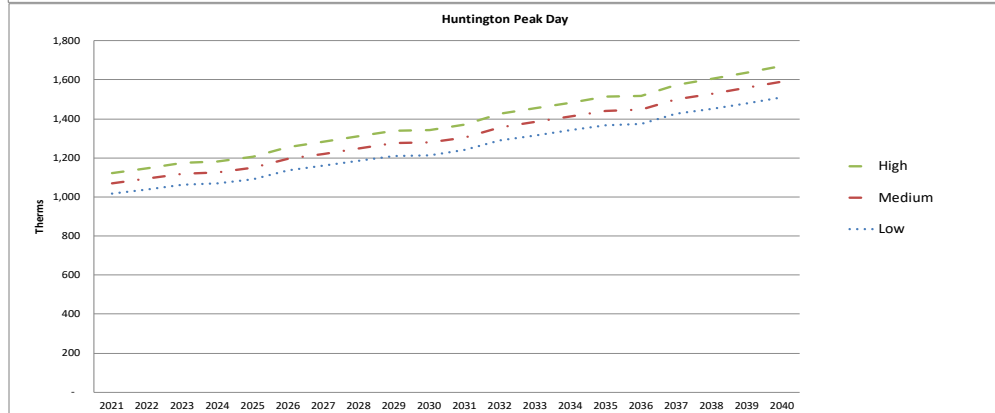
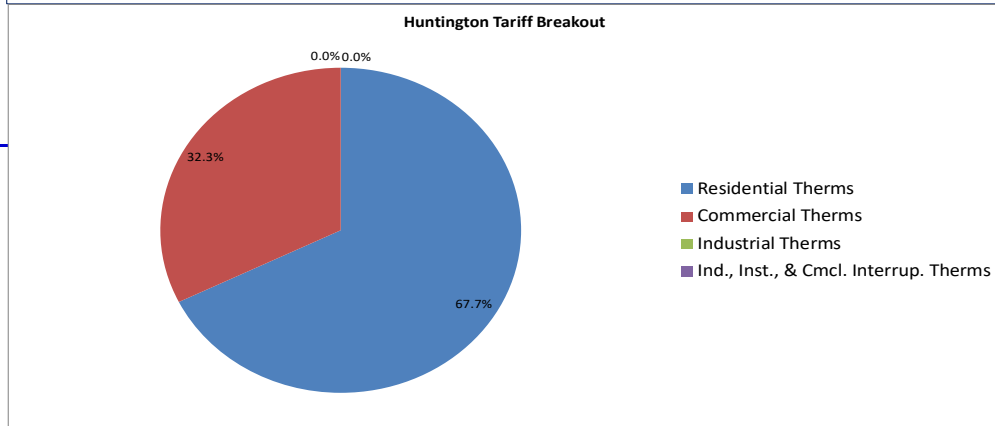
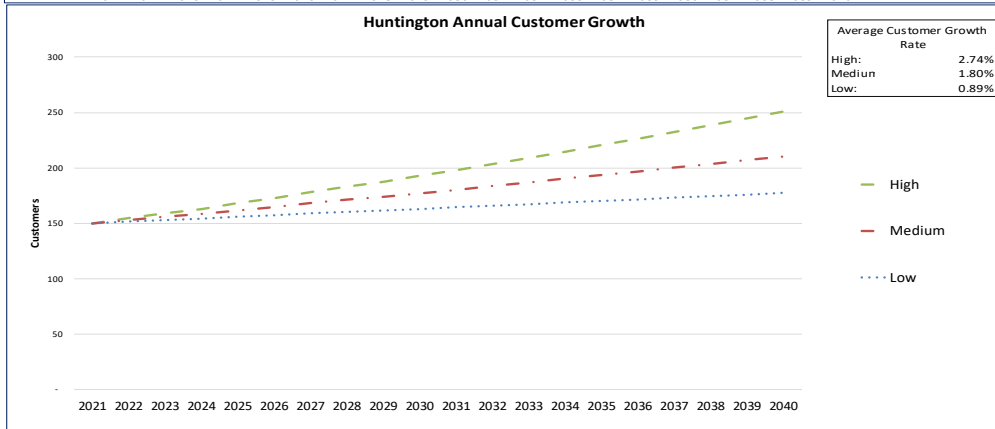
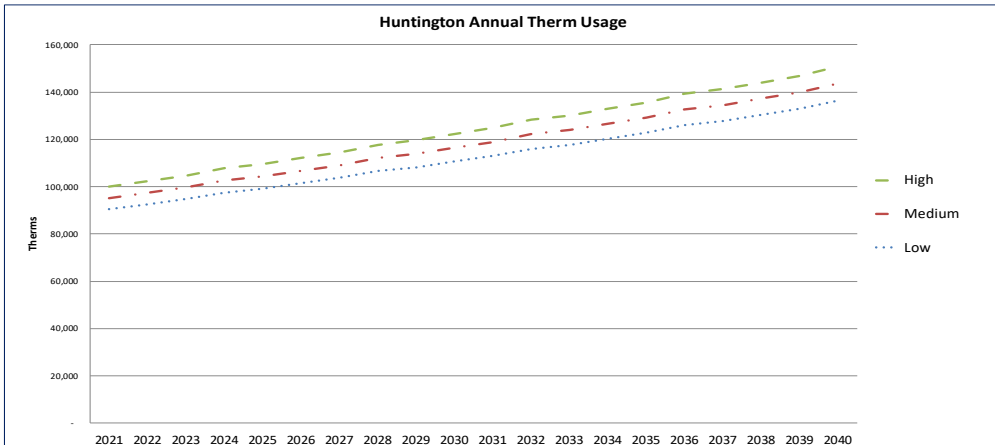
Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	9	1,007	1,015	9	1,060	1,069	10	1,113	1,122	0.00%	0.00%	0.00%
2022	10	1,029	1,039	10	1,083	1,093	11	1,137	1,148	8.79%	2.24%	2.30%
2023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

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

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





Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

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

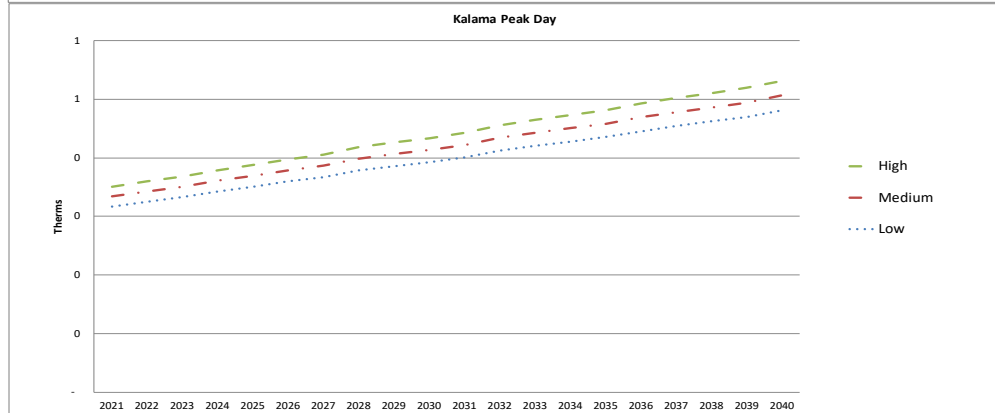
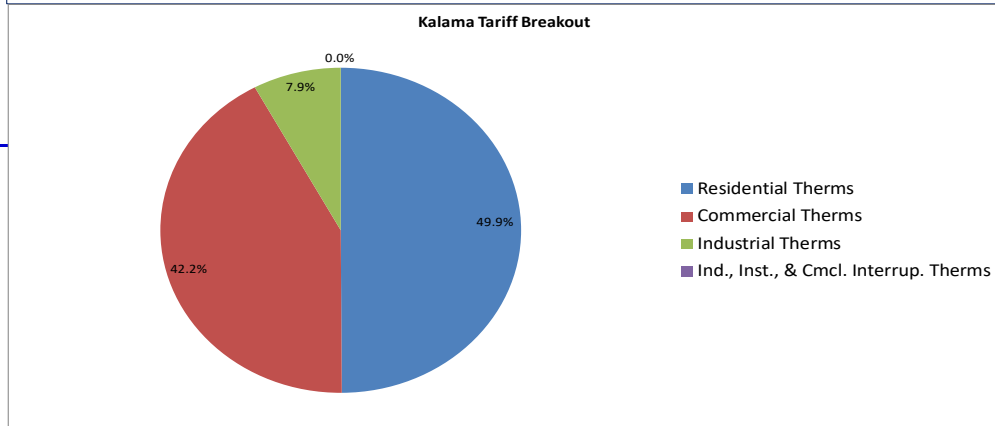
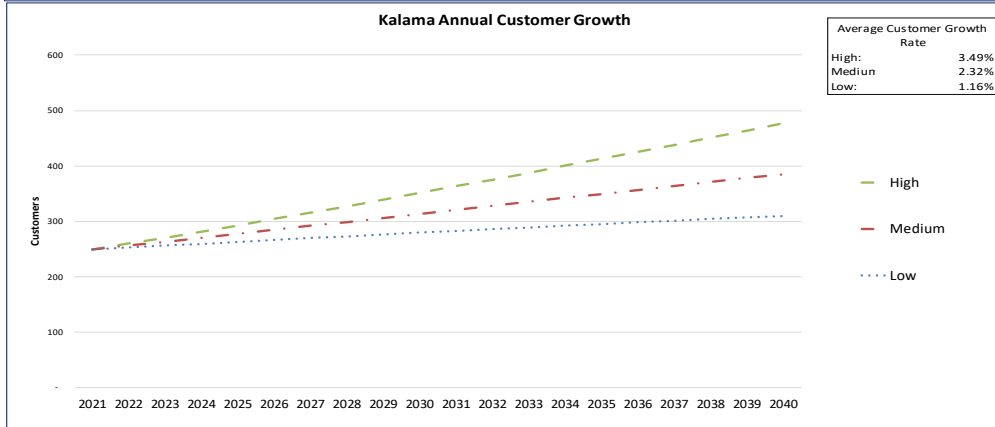
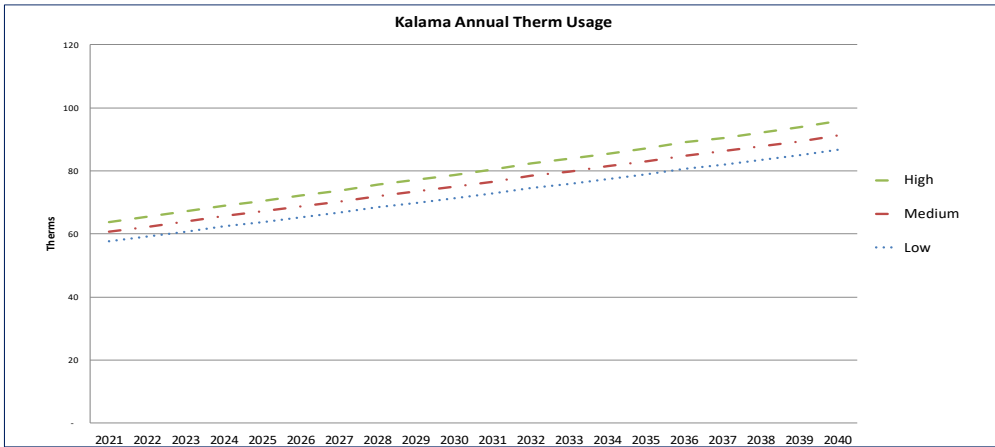
Peak Day - Baseload												
Low			Medium			High			Annual Change			
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	
2021	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	
2022	0	0	0	0	0	0	0	0	2.26%	2.52%	2.49%	
2023	0	0	0	0	0	0	0	0	0.53%	2.67%	2.42%	
2024	0	0	0	0	0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

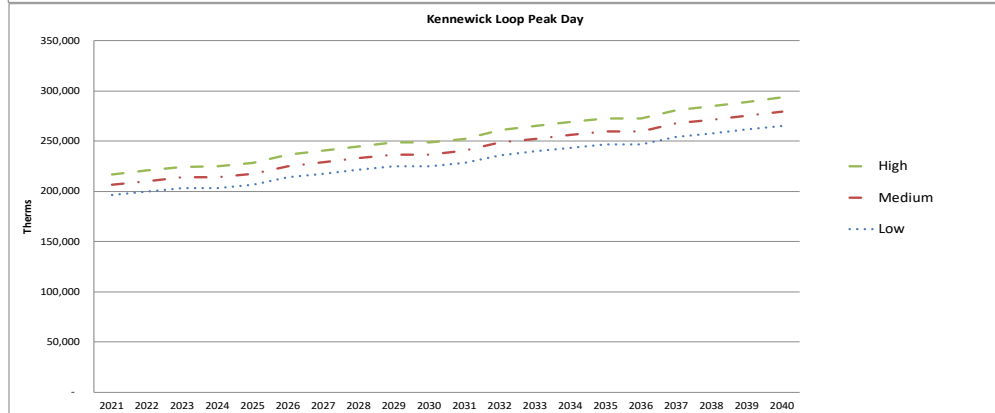
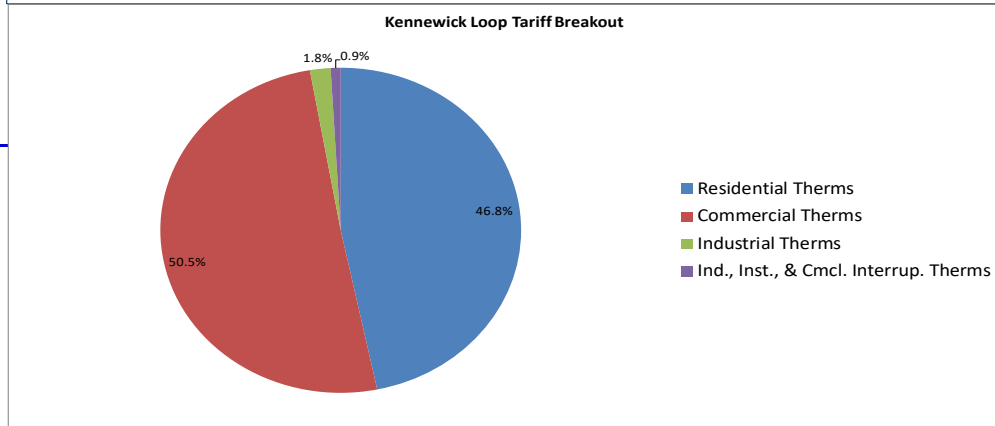
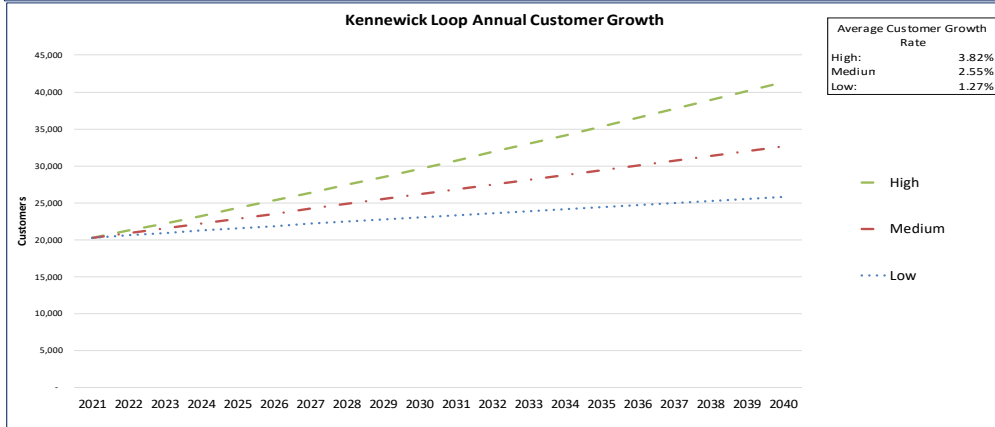
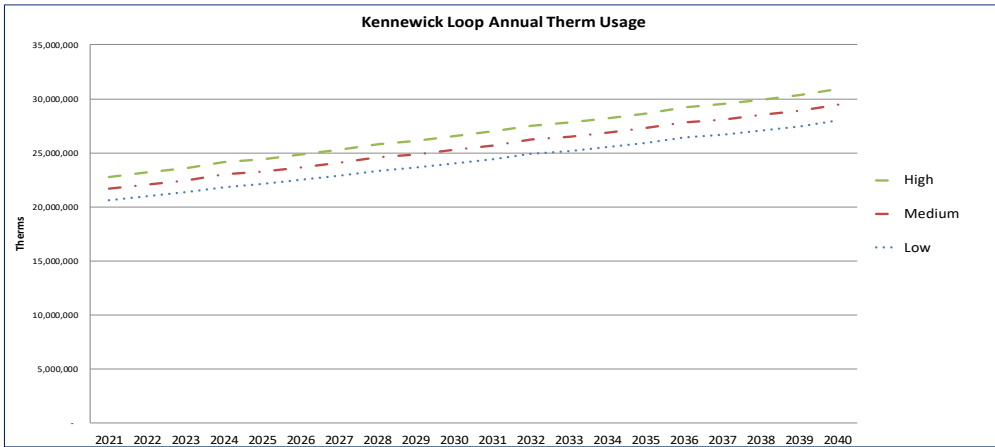
Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	29	29	58	31	30	61	32	32	64	0.00%	0.00%	0.00%
2022	30	29	59	31	31	62	33	33	65	2.94%	2.27%	2.94%
2023	31	30	61	32	32	64	34	33	67	2.86%	2.22%	2.54%
2024	32	31	62	33	32	66	35	34	69	3.09%	2.49%	2.79%
2025	32	31	64	34	33	67	36	35	70	2.40%	1.85%	2.13%
2026	33	32	65	35	34	69	37	35	72	2.63%	2.08%	2.63%
2027	34	33	67	36	34	70	38	36	74	2.56%	2.04%	2.31%
2028	35	33	69	37	35	72	39	37	76	2.81%	2.31%	2.56%
2029	36	34	70	38	36	73	40	38	77	2.14%	1.68%	1.92%
2030	37	35	71	39	36	75	41	38	79	2.38%	1.92%	2.16%
2031	38	35	73	39	37	77	41	39	80	2.32%	1.89%	2.32%
2032	38	36	75	41	38	78	43	40	82	2.58%	2.16%	2.38%
2033	39	37	76	41	39	80	43	40	84	1.92%	1.54%	1.73%
2034	40	37	77	42	39	81	44	41	86	2.17%	1.79%	1.99%
2035	41	38	79	43	40	83	45	42	87	2.13%	1.76%	1.95%
2036	42	39	81	44	41	85	46	43	89	2.39%	2.02%	2.39%
2037	43	39	82	45	41	86	47	43	91	1.74%	1.42%	1.58%
2038	43	40	83	46	42	88	48	44	92	2.00%	1.67%	1.84%
2039	44	41	85	47	43	89	49	45	94	1.96%	1.64%	1.81%
2040	45	41	87	48	44	91	50	46	96	2.23%	1.92%	2.08%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	202	47	249	202	47	249	202	47	249	0.00%	0.00%	0.00%
2022	205	48	253	208	48	256	211	49	260	1.49%	1.33%	1.46%
2023	208	48	256	214	50	263	220	51	271	1.42%	1.21%	1.38%
2024	211	49	259	220	51	270	229	53	281	1.38%	1.18%	1.35%
2025	214	49	263	226	52	278	238	54	293	1.37%	1.23%	1.34%
2026	216	50	266	232	53	285	248	57	304	1.31%	1.36%	1.32%
2027	219	51	270	238	55	292	257	59	316	1.28%	1.09%	1.24%
2028	222	51	273	243	56	299	267	60	327	1.23%	1.07%	1.20%
2029	224	52	276	249	57	306	277	63	339	1.23%	1.12%	1.21%
2030	227	52	280	255	58	314	286	65	351	1.19%	1.24%	1.20%
2031	230	53	283	261	60	321	296	67	363	1.18%	1.00%	1.14%
2032	232	53	286	267	61	328	307	69	375	1.13%	0.91%	1.09%
2033	235	54	289	273	62	335	317	71	388	1.12%	0.96%	1.09%
2034	238	55	292	279	63	342	327	73	400	1.05%	1.28%	1.09%
2035	240	55	295	285	65	349	337	75	413	1.08%	0.92%	1.05%
2036	243	56	298	291	66	356	348	77	425	1.04%	0.84%	1.00%
2037	245	56	301	297	67	364	359	79	438	1.03%	0.88%	1.00%
2038	247	57	304	303	68	371	369	82	451	0.98%	1.05%	1.00%
2039	250	57	307	309	69	378	380	84	464	0.99%	0.85%	0.96%
2040	252	58	310	315	71	385	391	86	478	0.96%	0.90%	0.95%







Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

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

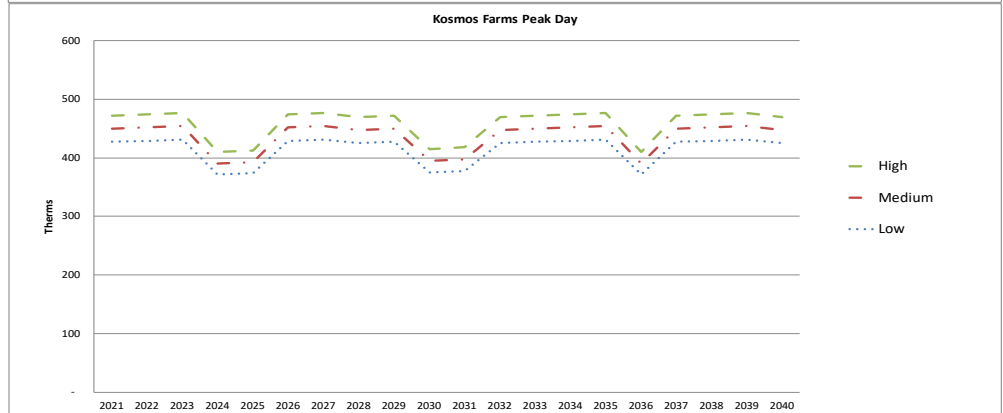
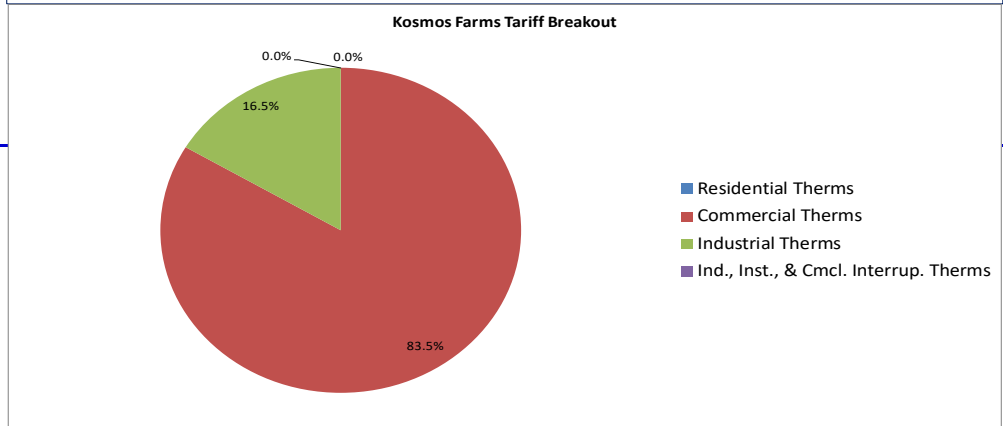
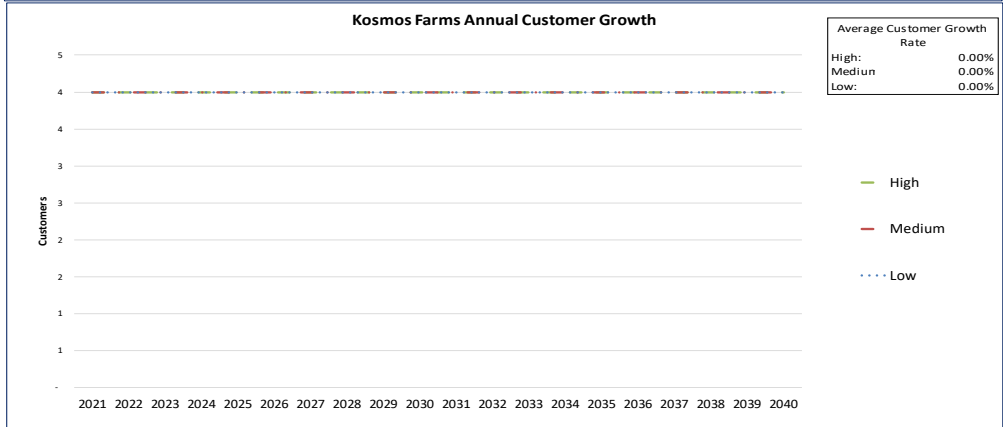
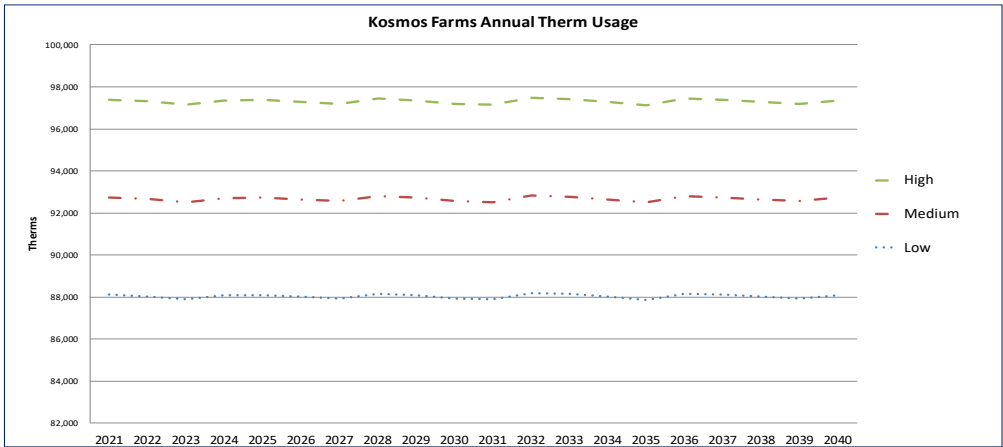
Peak Day - BaseLoad										Annual Change					
Low			Medium			High			Low		Medium		High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	-	427	427	450	450	-	472	472	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2022	-	429	429	452	452	-	474	474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

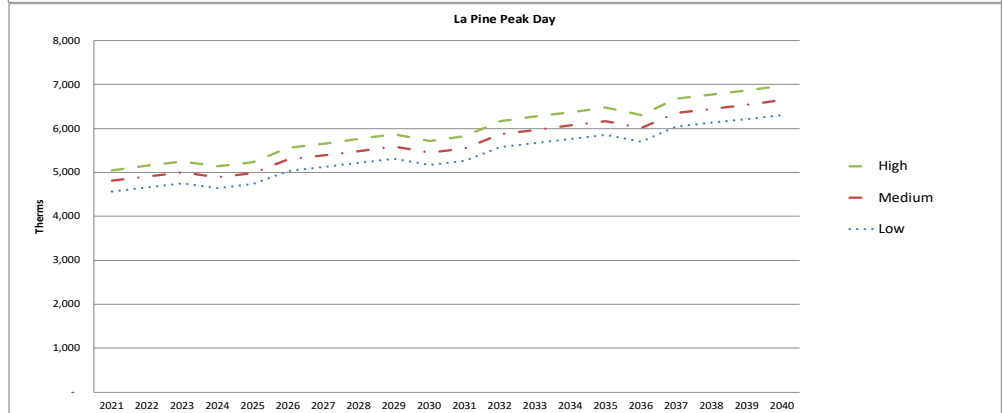
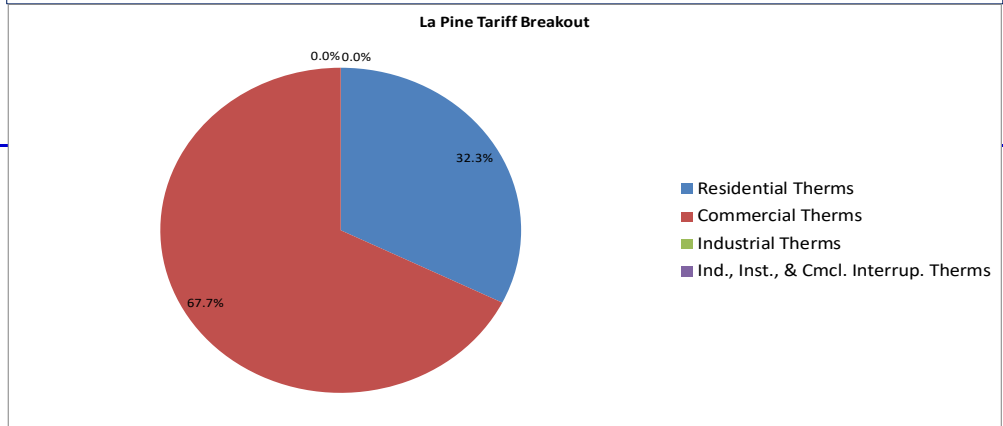
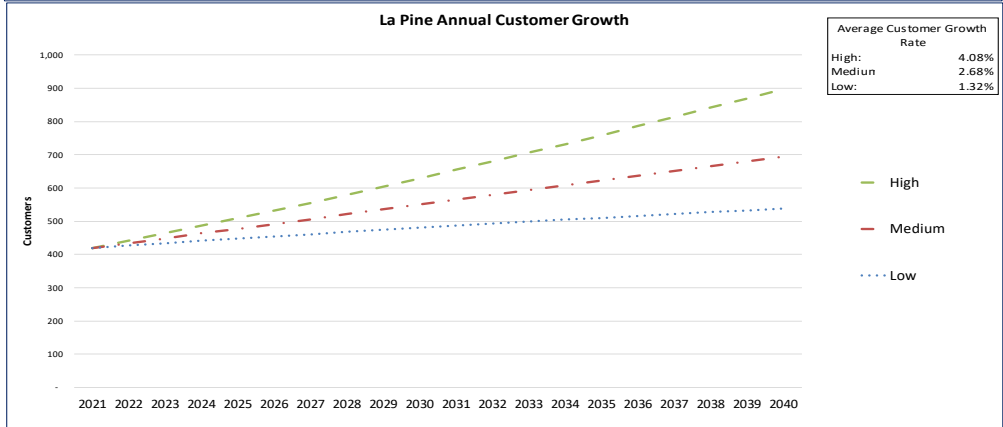
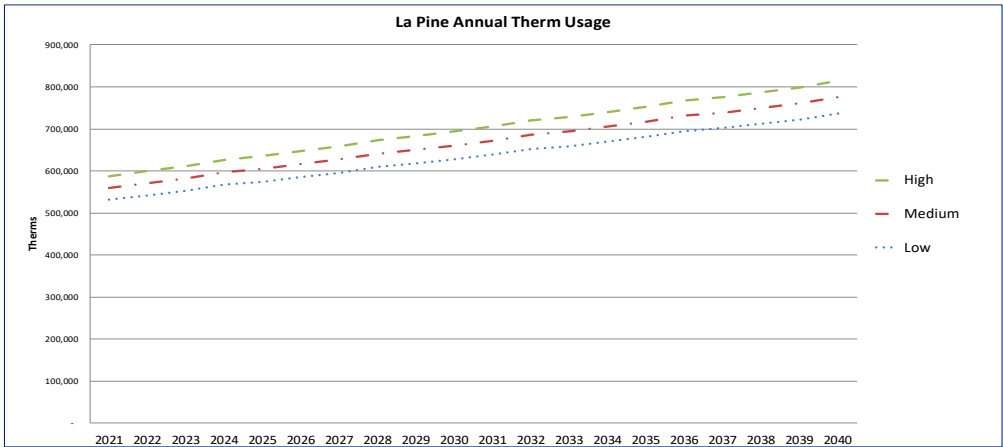
Therms Usage by Class										Annual Change					
Low			Medium			High			Low		Medium		High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	-	88,108	88,108	-	92,746	92,746	-	97,383	97,383	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	-	88,037	88,037	-	92,670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

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









Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

Lawrence															
Annual Requirements (Therms)										Annual Change					
Low			Medium			High				Low		Medium		High	
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	
2021	47,024	17,461	64,485	49,499	18,380	67,879	51,974	19,299	71,273	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	47,178	17,591	64,769	49,661	18,517	68,178	52,144	19,443	71,587	0.33%	0.74%	0.44%	0.33%	0.74%	0.44%
2023	47,356	17,685	65,042	49,849	18,616	68,465	52,341	19,547	71,888	0.38%	0.54%	0.42%	0.38%	0.54%	0.42%
2024	47,859	17,734	65,594	50,378	18,668	69,046	52,897	19,601	72,498	1.06%	0.28%	0.85%	1.06%	0.28%	0.85%
2025	47,762	17,831	65,593	50,276	18,770	69,046	52,790	19,708	72,498	-0.20%	0.55%	0.00%	-0.20%	0.55%	0.00%
2026	47,946	17,929	65,875	50,470	18,873	69,342	52,993	19,816	72,809	0.39%	0.55%	0.43%	0.39%	0.55%	0.43%
2027	48,100	18,060	66,160	50,631	19,010	69,642	53,163	19,961	73,124	0.32%	0.73%	0.43%	0.32%	0.73%	0.43%
2028	48,526	18,211	66,736	51,080	19,169	70,249	53,634	20,128	73,761	0.89%	0.84%	0.87%	0.89%	0.84%	0.87%
2029	48,459	18,279	66,739	51,010	19,242	70,251	53,560	20,204	73,764	-0.14%	0.38%	0.00%	-0.14%	0.38%	0.00%
2030	48,684	18,349	67,033	51,247	19,314	70,561	53,809	20,280	74,089	0.46%	0.38%	0.44%	0.46%	0.38%	0.44%
2031	48,879	18,451	67,330	51,451	19,423	70,874	54,024	20,364	74,417	0.40%	0.56%	0.44%	0.40%	0.56%	0.44%
2032	49,311	18,608	67,919	51,906	19,587	71,493	54,501	20,596	75,068	0.88%	0.85%	0.87%	0.88%	0.85%	0.87%
2033	49,190	18,747	67,938	51,779	19,734	71,513	54,368	20,721	75,089	-0.24%	0.75%	0.03%	-0.24%	0.75%	0.03%
2034	49,390	18,854	68,245	51,990	19,847	71,836	54,589	20,839	75,428	0.41%	0.57%	0.45%	0.41%	0.57%	0.45%
2035	49,624	18,928	68,552	52,236	19,924	72,160	54,848	20,921	75,768	0.47%	0.39%	0.45%	0.47%	0.39%	0.45%
2036	50,137	19,022	69,159	52,775	20,023	72,799	55,414	21,025	76,439	1.03%	0.50%	0.88%	1.03%	0.50%	0.88%
2037	50,051	19,133	69,184	52,685	20,140	72,825	55,319	21,147	76,466	-0.17%	0.58%	0.04%	-0.17%	0.58%	0.04%
2038	50,226	19,279	69,505	52,869	20,293	73,163	55,513	21,308	76,821	0.35%	0.76%	0.46%	0.35%	0.76%	0.46%
2039	50,406	19,426	69,832	53,059	20,448	73,507	55,712	21,471	77,182	0.36%	0.76%	0.47%	0.36%	0.76%	0.47%
2040	50,932	19,525	70,457	53,613	20,553	74,165	56,293	21,580	77,874	1.04%	0.51%	0.90%	1.04%	0.51%	0.90%

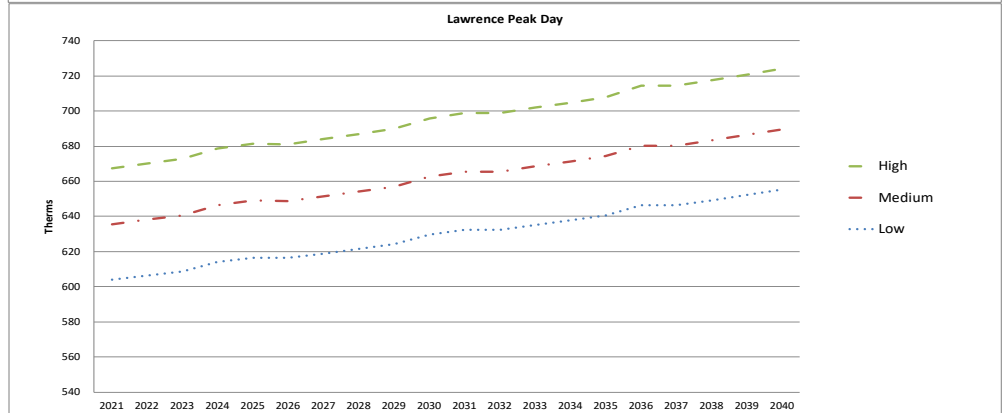
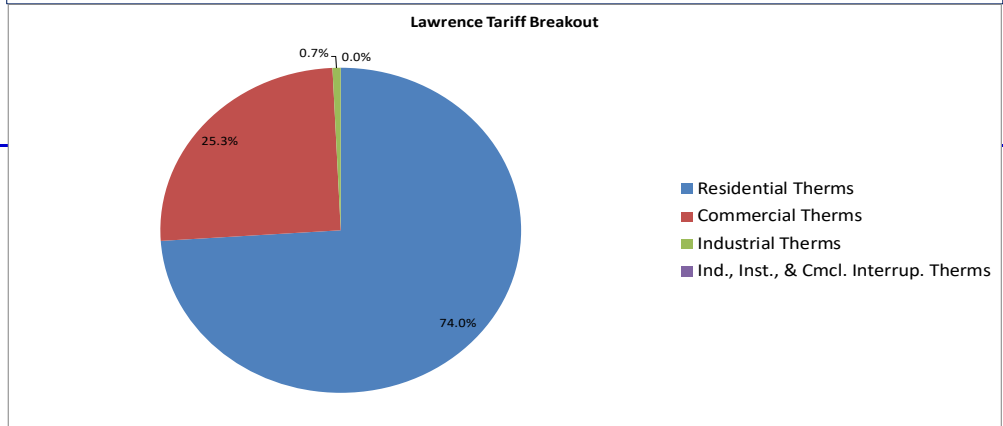
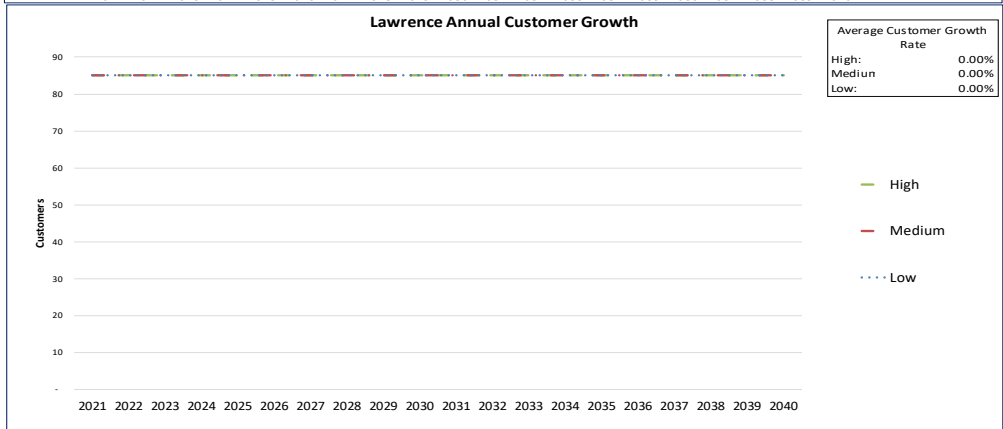
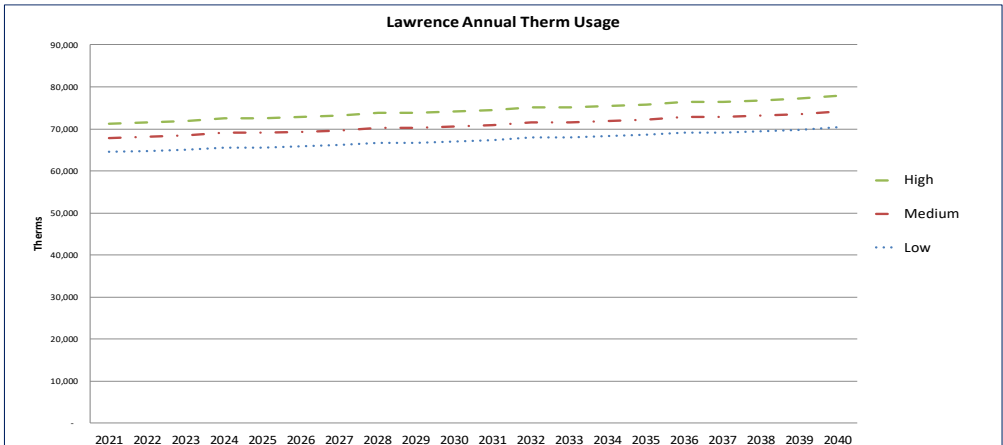
Peak Day - BaseLoad										Annual Change					
Low			Medium			High				Low		Medium		High	
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	
2021	48	556	604	50	585	636	53	615	667	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	48	558	606	51	587	638	53	617	670	0.74%	0.37%	0.40%	0.74%	0.37%	0.40%
2023	48	560	609	51	590	641	54	619	673	0.54%	0.39%	0.40%	0.54%	0.39%	0.40%
2024	49	565	614	51	595	646	54	625	679	0.28%	0.93%	0.88%	0.28%	0.93%	0.88%
2025	49	568	617	51	598	649	54	627	681	0.59%	0.39%	0.41%	0.59%	0.39%	0.41%
2026	49	567	616	52	597	649	54	627	681	0.55%	-0.09%	-0.04%	0.55%	-0.09%	-0.04%
2027	49	569	619	52	599	651	55	629	684	0.73%	0.38%	0.41%	0.73%	0.38%	0.41%
2028	50	572	622	53	602	654	55	632	687	0.84%	0.41%	0.44%	0.84%	0.41%	0.44%
2029	50	574	624	53	604	657	55	635	690	0.38%	0.42%	0.42%	0.38%	0.42%	0.42%
2030	50	579	630	53	610	663	56	640	696	0.38%	0.91%	0.87%	0.38%	0.91%	0.87%
2031	51	582	632	53	612	666	56	643	699	0.56%	0.41%	0.42%	0.56%	0.41%	0.42%
2032	51	581	632	54	612	666	56	643	699	0.85%	-0.07%	0.00%	0.85%	-0.07%	0.00%
2033	51	584	635	54	614	668	57	645	702	0.75%	0.40%	0.43%	0.75%	0.40%	0.43%
2034	52	586	638	54	617	671	57	648	705	0.57%	0.42%	0.43%	0.57%	0.42%	0.43%
2035	52	589	640	55	620	674	57	651	708	0.39%	0.44%	0.43%	0.39%	0.44%	0.43%
2036	52	594	646	55	626	680	58	657	714	0.50%	0.95%	0.92%	0.50%	0.95%	0.92%
2037	52	594	646	55	626	680	58	657	714	0.58%	-0.06%	-0.01%	0.58%	-0.06%	-0.01%
2038	53	596	649	56	628	683	58	659	717	0.76%	0.41%	0.44%	0.76%	0.41%	0.44%
2039	53	599	652	56	630	686	59	662	721	0.76%	0.42%	0.45%	0.76%	0.42%	0.45%
2040	53	602	655	56	633	690	59	665	724	0.51%	0.47%	0.48%	0.51%	0.47%	0.48%

Therms Usage by Class										Annual Change					
Low			Medium			High				Low		Medium		High	
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	47,452	17,033	64,485	49,500	17,929	67,429	52,447	18,826	71,273	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	47,784	16,985	64,769	50,299	17,879	68,178	52,814	18,773	71,587	0.70%	-0.28%	0.44%	0.70%	-0.28%	0.44%
2023	48,117	16,924	65,042	50,650	17,815	68,465	53,182	18,706	71,888	0.70%	-0.36%	0.42%	0.70%	-0.36%	0.42%
2024	48,649	16,945	65,594	51,209	17,837	69,046	53,769	18,729	72,498	1.10%	0.12%	0.85%	1.10%	0.12%	0.85%
2025	48,792	16,801	65,593	51,360	17,686	69,046	53,928	18,570	72,498	0.29%	-0.35%	0.00%	0.29%	-0.35%	0.00%
2026	49,136	16,739	65,875	51,722	17,620	69,342	54,308	18,501	72,809	0.71%	-0.37%	0.43%	0.71%	-0.37%	0.43%
2027	49,484	16,675	66,160	52,089	17,553	69,642	54,693	18,431	73,124	0.71%	-0.38%	0.43%	0.71%	-0.38%	0.43%
2028	50,042	16,694	66,736	52,676	17,573	70,249	55,310	18,451	73,761	1.13%	0.11%	0.87%	1.13%	0.11%	0.87%
2029	50,191	16,548	66,739	52,833	17,419	70,251	55,474	18,290	73,764	0.30%	-0.88%	0.00%	0.30%	-0.88%	0.00%
2030	50,551	16,482	67,033	53,211	17,350	70,561	55,872	18,217	74,089	0.72%	-0.40%	0.44%	0.72%	-0.40%	0.44%
2031	50,914	16,416	67,330	53,594	17,280	70,874	56,273	18,144	74,417	0.72%	-0.40%	0.44%	0.72%	-0.40%	0.44%
2032	51,489	16,429	67,919	54,199	17,294	71,493	56,909	18,159	75,068	1.13%	0.08%	0.87%	1.13%	0.08%	0.87%
2033	51,654	16,283	67,938	54,373	17,140	71,513	57,092	17,997	75,089	0.32%	-0.89%	0.03%	0.32%	-0.89%	0.03%
2034	52,030	16,215	68,245	54,768	17,068	71,836	57,506	17,922	75,428	0.73%	-0.42%	0.45%	0.73%	-0.42%	0.45%
2035	52,407	16,145	68,552	55,165	16,995	72,160	57,924	17,845	75,768	0.73%	-0.43%	0.45%	0.73%	-0.43%	0.45%
2036	53,004	16,154	69,159	55,794	17,005	72,799	58,548	17,855	76,439	1.14%	0.06%	0.88%	1.14%	0.06%	0.88%
2037	53,178	16,006	69,184	55,977	16,848	72,825	58,775	17,671	76,466	0.33%	-0.92%	0.04%	0.33%	-0.92%	0.04%
2038	53,570	15,935	69,505	56,389	16,773	73,163	59,209	17,612	76,821	0.74%	-0.45%	0.46%	0.74%	-0.45%	0.46%
2039	53,969	15,863	69,832	56,809	16,698	73,507	59,649	17,533	77,182	0.74%	-0.45%	0.47%	0.74%	-0.45%	0.47%
2040	54,590	15,868	70,457	57,463	16,703	74,165	60,336	17,538	77,874	1.15%	0.03%	0.90%	1.15%	0.03%	0.90%

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



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

LDS Church												
Annual Requirements (Therms)												
Low			Medium			High			Annual Change			
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Low	Medium	High	
									Heating	BaseLoad	Total	
2021	6,679	3,282	9,961	7,031	3,455	10,485	7,382	3,627	11,010	0.00%	0.00%	0.00%
2022	6,682	3,278	9,959	7,033	3,450	10,484	7,385	3,623	11,008	0.03%	-0.12%	-0.02%
2023	6,684	3,276	9,959	7,036	3,448	10,484	7,387	3,620	11,008	0.03%	-0.07%	0.00%
2024	6,725	3,283	10,008	7,079	3,456	10,535	7,433	3,629	11,062	0.62%	0.24%	0.49%
2025	6,678	3,282	9,959	7,029	3,454	10,484	7,381	3,627	11,008	-0.70%	-0.05%	-0.49%
2026	6,680	3,279	9,959	7,032	3,452	10,484	7,383	3,624	11,008	0.03%	-0.07%	0.00%
2027	6,683	3,276	9,959	7,035	3,449	10,484	7,387	3,621	11,008	0.04%	-0.09%	0.00%
2028	6,726	3,283	10,009	7,080	3,456	10,535	7,434	3,628	11,062	0.64%	0.20%	0.49%
2029	6,679	3,280	9,959	7,031	3,453	10,484	7,382	3,625	11,008	-0.69%	-0.08%	-0.49%
2030	6,681	3,278	9,959	7,033	3,451	10,484	7,384	3,623	11,008	0.03%	-0.06%	0.00%
2031	6,683	3,277	9,959	7,034	3,449	10,484	7,386	3,622	11,008	0.02%	-0.05%	0.00%
2032	6,725	3,284	10,008	7,079	3,456	10,535	7,433	3,630	11,062	0.63%	0.20%	0.49%
2033	6,679	3,280	9,959	7,031	3,453	10,484	7,382	3,626	11,008	-0.68%	-0.10%	-0.49%
2034	6,682	3,278	9,959	7,033	3,450	10,484	7,385	3,623	11,008	0.04%	-0.07%	0.00%
2035	6,684	3,275	9,959	7,036	3,448	10,484	7,387	3,620	11,008	0.04%	-0.07%	0.00%
2036	6,724	3,284	10,008	7,078	3,457	10,535	7,432	3,630	11,062	0.60%	0.26%	0.49%
2037	6,678	3,282	9,959	7,029	3,454	10,484	7,381	3,627	11,008	-0.69%	-0.07%	-0.49%
2038	6,681	3,279	9,959	7,032	3,451	10,484	7,384	3,624	11,008	0.05%	-0.09%	0.00%
2039	6,684	3,276	9,959	7,036	3,448	10,484	7,387	3,621	11,008	0.05%	-0.09%	0.00%
2040	6,726	3,283	10,008	7,080	3,456	10,535	7,434	3,628	11,062	0.63%	0.22%	0.49%

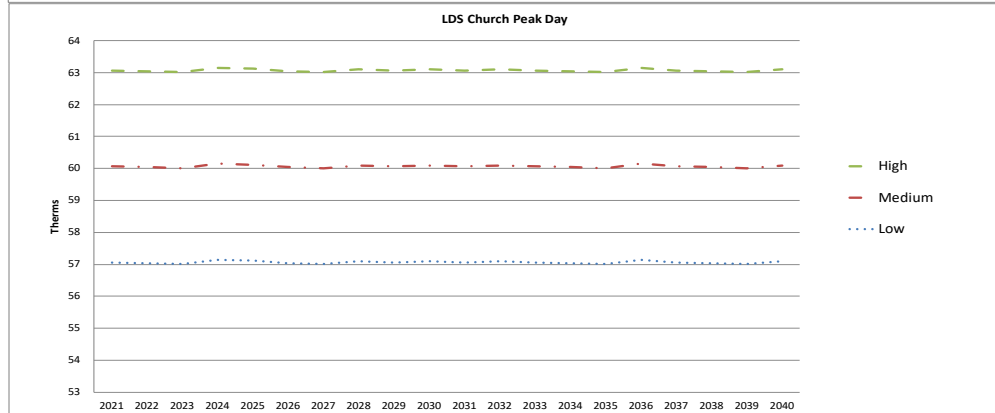
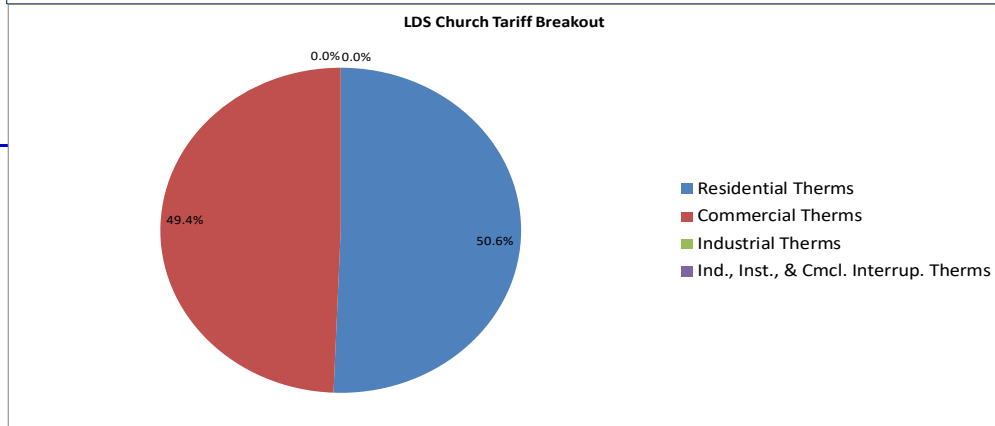
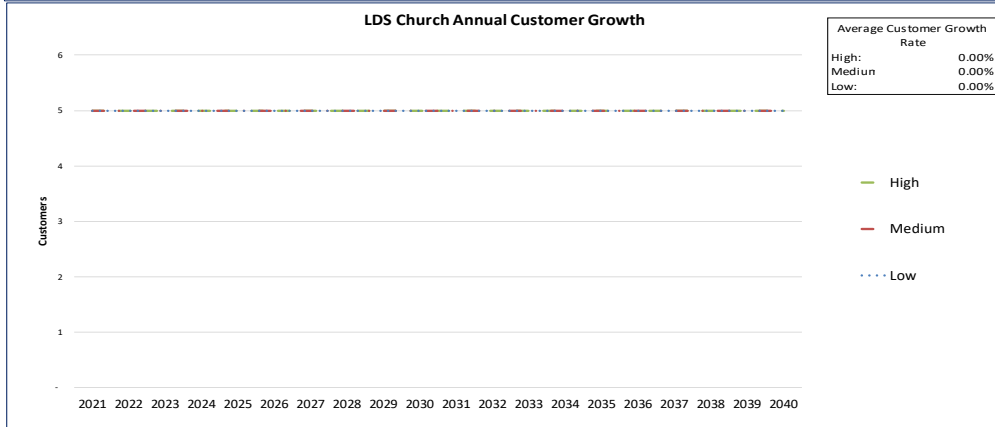
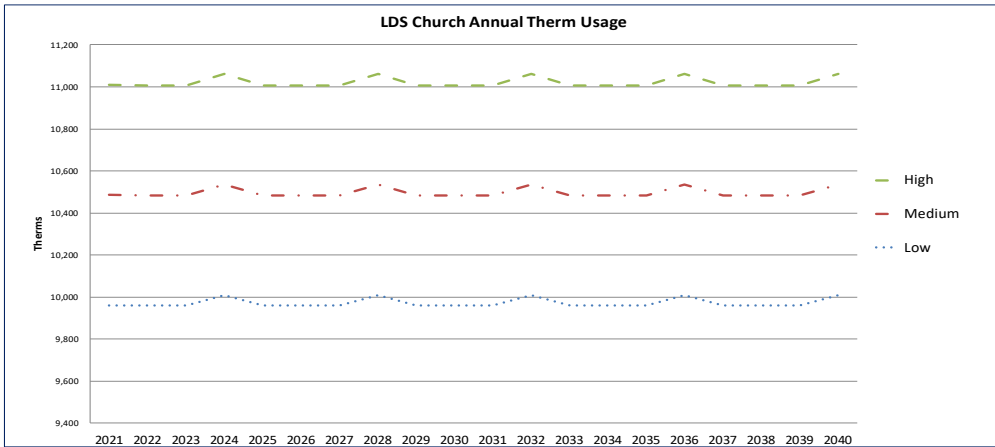
Peak Day - BaseLoad												
Low			Medium			High			Annual Change			
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	
2021	9	48	57	9	51	60	10	53	63	0.00%	0.00%	0.00%
2022	9	48	57	9	51	60	10	53	63	-0.12%	-0.03%	-0.04%
2023	9	48	57	9	51	60	10	53	63	-0.07%	-0.04%	-0.04%
2024	9	48	57	9	51	60	10	53	63	0.24%	0.21%	0.22%
2025	9	48	57	9	51	60	10	53	63	-0.07%	-0.04%	-0.04%
2026	9	48	57	9	51	60	10	53	63	-0.07%	-0.14%	-0.13%
2027	9	48	57	9	51	60	10	53	63	-0.09%	-0.03%	-0.04%
2028	9	48	57	9	51	60	10	53	63	0.20%	0.12%	0.13%
2029	9	48	57	9	51	60	10	53	63	-0.08%	-0.04%	-0.04%
2030	9	48	57	9	51	60	10	53	63	-0.06%	0.06%	0.04%
2031	9	48	57	9	51	60	10	53	63	-0.05%	-0.04%	-0.04%
2032	9	48	57	9	51	60	10	53	63	0.20%	0.01%	0.04%
2033	9	48	57	9	51	60	10	53	63	-0.10%	-0.03%	-0.04%
2034	9	48	57	9	51	60	10	53	63	-0.07%	-0.04%	-0.04%
2035	9	48	57	9	51	60	10	53	63	-0.07%	-0.04%	-0.04%
2036	9	48	57	9	51	60	10	53	63	0.26%	0.21%	0.22%
2037	9	48	57	9	51	60	10	53	63	-0.07%	-0.14%	-0.13%
2038	9	48	57	9	51	60	10	53	63	-0.09%	-0.03%	-0.04%
2039	9	48	57	9	51	60	10	53	63	-0.09%	-0.03%	-0.04%
2040	9	48	57	9	51	60	10	53	63	0.22%	0.11%	0.13%

Therms Usage by Class												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	5,058	4,903	9,961	5,324	5,161	10,485	5,591	5,419	11,010	0.00%	0.00%	0.00%
2022	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	-0.03%	0.00%	-0.02%
2023	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2024	5,079	4,929	10,008	5,347	5,188	10,535	5,614	5,448	11,062	0.45%	0.53%	0.49%
2025	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	-0.45%	-0.53%	-0.49%
2026	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2027	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2028	5,079	4,929	10,009	5,347	5,189	10,535	5,614	5,448	11,062	0.45%	0.53%	0.49%
2029	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	-0.45%	-0.53%	-0.49%
2030	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2031	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2032	5,079	4,929	10,008	5,347	5,188	10,535	5,614	5,448	11,062	0.45%	0.53%	0.49%
2033	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	-0.45%	-0.53%	-0.49%
2034	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2035	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2036	5,079	4,929	10,008	5,347	5,188	10,535	5,614	5,448	11,062	0.45%	0.53%	0.49%
2037	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	-0.45%	-0.53%	-0.49%
2038	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2039	5,056	4,903	9,959	5,323	5,161	10,484	5,589	5,419	11,008	0.00%	0.00%	0.00%
2040	5,079	4,929	10,008	5,347	5,189	10,535	5,614	5,448	11,062	0.45%	0.53%	0.49%

Customer Count Forecast												
Low			Medium			High			Annual Change			
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	
2021	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2022	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2023	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2024	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2025	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2026	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2027	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2028	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2029	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2030	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2031	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2032	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2033	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2034	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2035	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2036	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2037	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2038	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2039	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%
2040	4	1	5	4	1	5	4	1	5	0.00%	0.00%	0.00%



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

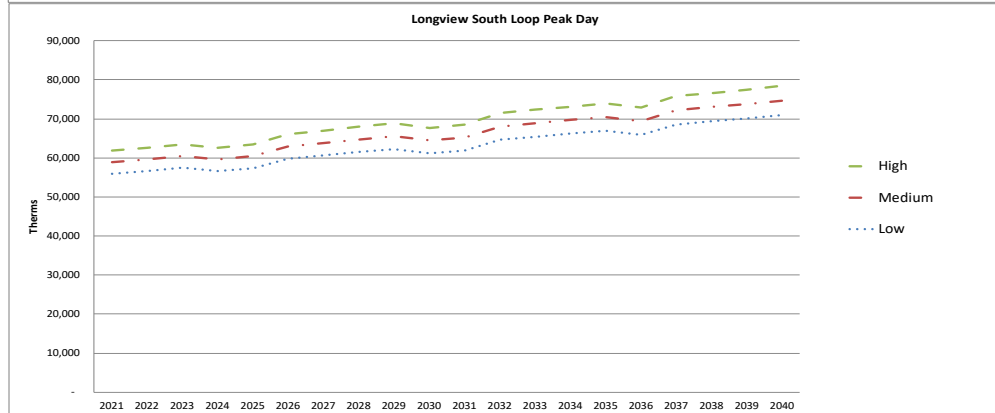
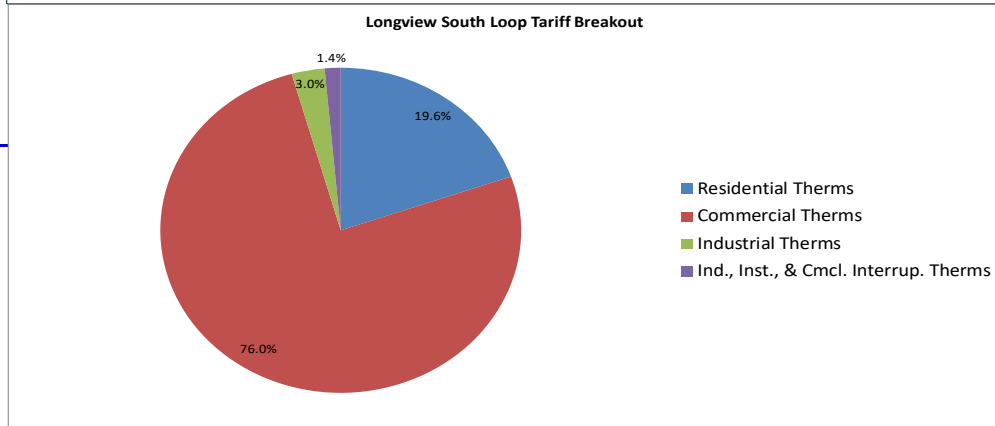
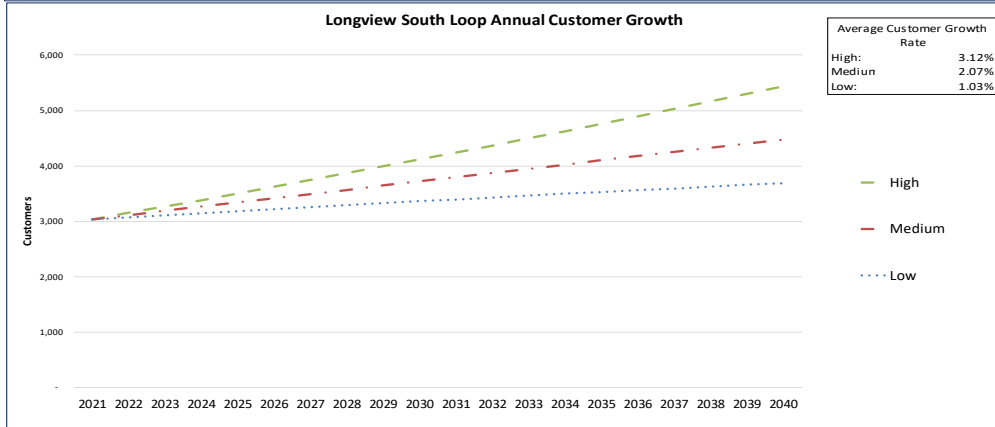
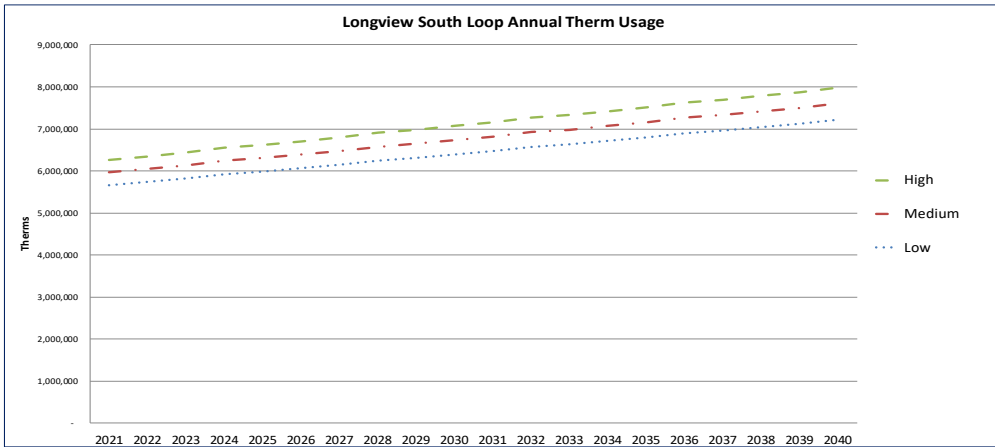
Longview South Loop																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	3,913,834	1,750,664	5,664,497	4,119,825	1,842,804	5,962,629	4,325,816	1,934,944	6,260,760	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,969,552	1,774,186	5,743,738	4,178,476	1,867,564	6,046,040	4,387,400	1,960,942	6,348,342	1.42%	1.34%	1.40%	1.42%	1.34%	1.40%	1.42%	1.34%
2023	4,591,100	2,233,462	6,824,562	4,832,736	2,298,381	7,131,118	5,074,373	2,363,300	6,437,674	15.66%	-30.48%	1.41%	15.66%	-30.48%	1.41%	15.66%	-30.48%
2024	4,563,568	1,364,296	5,927,864	4,803,756	1,436,101	6,239,857	5,043,943	1,507,906	6,551,849	-0.60%	10.61%	-0.60%	10.61%	1.77%	-0.60%	10.61%	1.77%
2025	4,114,601	1,873,671	5,988,271	4,331,158	1,972,285	6,303,444	4,547,717	2,070,899	6,618,616	-9.84%	37.34%	1.02%	-9.84%	37.34%	1.02%	-9.84%	37.34%
2026	4,177,053	1,892,116	6,069,169	4,396,898	1,991,700	6,388,598	4,616,743	2,091,286	6,708,028	1.52%	0.98%	1.35%	1.52%	0.98%	1.35%	1.52%	0.98%
2027	4,274,966	1,875,103	6,150,069	4,499,964	1,973,793	6,473,757	4,724,962	2,072,483	6,797,445	2.34%	-0.90%	1.33%	2.34%	-0.90%	1.33%	2.34%	-0.90%
2028	4,924,939	1,324,410	6,249,349	5,184,146	1,394,116	6,578,262	5,443,354	1,463,822	6,907,175	15.20%	-29.37%	1.61%	15.20%	-29.37%	1.61%	15.20%	-29.37%
2029	4,681,175	1,630,926	6,312,101	4,927,553	1,716,764	6,644,316	5,173,930	1,802,602	6,976,532	-4.95%	23.14%	1.00%	-4.95%	23.14%	1.00%	-4.95%	23.14%
2030	4,921,815	1,471,131	6,392,946	5,180,858	1,548,559	6,729,417	5,439,900	1,625,987	7,061,888	5.14%	-9.80%	1.28%	5.14%	-9.80%	1.28%	5.14%	-9.80%
2031	4,453,960	2,019,837	6,473,797	4,688,379	2,126,145	6,814,523	4,922,797	2,232,452	7,155,249	-9.51%	37.30%	1.26%	-9.51%	37.30%	1.26%	-9.51%	37.30%
2032	4,538,058	2,039,761	6,577,820	4,776,903	2,147,117	6,924,021	5,015,749	2,254,473	7,270,222	1.89%	0.99%	1.61%	1.89%	0.99%	1.61%	1.89%	0.99%
2033	4,571,238	2,062,809	6,634,048	4,811,830	2,171,378	6,983,208	5,052,421	2,279,947	7,332,368	0.73%	1.13%	0.85%	0.73%	1.13%	0.85%	0.73%	1.13%
2034	5,294,555	1,420,296	6,714,851	5,573,217	1,495,048	7,068,265	5,851,878	1,569,800	7,421,678	15.82%	-31.15%	1.22%	15.82%	-31.15%	1.22%	15.82%	-31.15%
2035	5,046,958	1,750,623	6,797,580	5,312,587	1,842,761	7,155,348	5,578,216	1,934,899	7,513,115	-4.68%	23.26%	1.23%	-4.68%	23.26%	1.23%	-4.68%	23.26%
2036	4,748,697	2,153,956	6,902,653	4,998,628	2,267,322	7,265,950	5,248,560	2,380,688	7,629,248	-5.91%	23.04%	1.55%	-5.91%	23.04%	1.55%	-5.91%	23.04%
2037	4,786,504	2,173,140	6,959,644	5,038,425	2,287,516	7,325,941	5,290,346	2,401,892	7,732,238	0.80%	0.89%	0.83%	0.80%	0.89%	0.83%	0.80%	0.89%
2038	4,879,089	2,161,435	7,040,524	5,135,883	2,275,195	7,411,078	5,392,677	2,388,555	7,816,332	1.93%	-0.54%	1.16%	1.93%	-0.54%	1.16%	1.93%	-0.54%
2039	4,934,741	2,184,603	7,119,345	5,194,465	2,299,582	7,494,047	5,454,188	2,414,551	7,868,750	1.14%	1.07%	1.12%	1.14%	1.07%	1.12%	1.14%	1.07%
2040	5,604,092	1,621,430	7,225,522	5,899,045	1,706,768	7,605,813	6,193,997	1,792,106	7,986,104	13.56%	-25.78%	1.49%	13.56%	-25.78%	1.49%	13.56%	-25.78%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	4,796	51,125	55,921	5,049	53,816	58,864	5,301	56,506	61,808	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	4,861	51,824	56,685	5,117	54,552	59,668	5,372	57,279	62,652	1.34%	1.37%	1.37%	1.34%	1.37%	1.37%	1.34%	1.37%
2023	3,379	54,068	57,448	3,557	56,914	60,471	3,735	59,760	63,495	-30.48%	4.33%	1.35%	-30.48%	4.33%	1.35%	-30.48%	4.33%
2024	3,738	52,911	56,649	3,935	55,696	59,631	4,131	58,481	62,612	10.61%	-2.14%	-1.39%	10.61%	-2.14%	-1.39%	10.61%	-2.14%
2025	5,103	55,566	60,669	5,404	55,007	60,410	5,674	57,757	63,431	37.34%	-1.24%	1.31%	37.34%	-1.24%	1.31%	37.34%	-1.24%
2026	5,184	54,664	59,847	5,457	57,541	62,997	5,730	60,418	66,147	0.98%	4.61%	4.28%	0.98%	4.61%	4.28%	0.98%	4.61%
2027	5,137	55,471	60,609	5,408	58,391	63,798	5,678	61,310	66,988	-0.90%	1.48%	1.27%	-0.90%	1.48%	1.27%	-0.90%	1.48%
2028	3,629	57,859	61,487	3,819	60,904	64,724	4,010	63,949	67,960	-29.37%	4.30%	1.45%	-29.37%	4.30%	1.45%	-29.37%	4.30%
2029	4,468	57,781	62,249	4,703	60,822	65,525	4,939	63,863	68,802	23.14%	-0.14%	1.24%	23.14%	-0.14%	1.24%	23.14%	-0.14%
2030	4,030	57,170	61,200	4,243	60,179	64,421	4,455	63,188	67,642	-9.80%	-1.06%	-1.06%	-9.80%	-1.06%	-1.06%	-9.80%	-1.06%
2031	5,534	56,403	61,937	5,825	59,372	65,197	6,116	62,340	68,457	37.30%	-1.34%	1.20%	37.30%	-1.34%	1.20%	37.30%	-1.34%
2032	5,588	59,064	64,652	5,883	62,173	68,055	6,177	65,281	71,458	0.99%	4.72%	4.38%	0.99%	4.72%	4.38%	0.99%	4.72%
2033	5,652	59,761	65,412	5,949	62,906	68,855	6,246	66,051	72,298	1.13%	1.18%	1.18%	1.13%	1.18%	1.18%	1.13%	1.18%
2034	3,891	62,280	66,172	4,096	65,558	69,654	4,301	68,236	73,137	-31.15%	4.22%	1.16%	-31.15%	4.22%	1.16%	-31.15%	4.22%
2035	4,796	62,133	66,929	5,049	65,404	70,452	5,301	68,674	73,975	23.26%	-0.24%	1.15%	23.26%	-0.24%	1.15%	23.26%	-0.24%
2036	5,901	59,970	65,871	6,212	63,126	69,338	6,522	66,282	72,805	23.04%	-3.48%	-1.58%	23.04%	-3.48%	-1.58%	23.04%	-3.48%
2037	5,954	62,622	68,576	6,267	65,918	72,185	6,581	69,213	75,794	0.89%	4.42%	4.11%	0.89%	4.42%	4.11%	0.89%	4.42%
2038	5,922	63,411	69,333	6,233	66,749	72,982	6,545	70,086	76,631	-0.54%	1.26%	1.10%	-0.54%	1.26%	1.10%	-0.54%	1.26%
2039	5,985	64,104	70,090	6,300	67,478	73,779	6,615	70,852	77,467	1.07%	1.09%	1.09%	1.07%	1.09%	1.09%	1.07%	1.09%
2040	4,442	66,539	70,981	4,676	70,041	74,717	4,910	73,543	78,453	-25.78%	3.80%	1.27%	-25.78%	3.80%	1.27%	-25.78%	3.80%

Therms Usage by Class												Annual Change					
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	1,098,280	4,566,217	5,664,497	1,156,084	4,806,544	5,962,629	1,213,888	5,046,872	6,260,760	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,127,459	4,616,279	5,743,738	1,186,798	4,859,241	6,046,040	1,246,138	5,102,203	6,348,342	2.66%	1.10%	1.40%	2.66%	1.10%	1.40%	2.66%	1.10%
2023	1,156,940	4,667,622	5,824,562	1,217,832	4,913,286	6,131,118	1,278,724	5,158,950	6,437,674	2.61%	1.11%	1.41%	2.61%	1.11%	1.41%	2.61%	1.11%
2024	1,191,111	4,736,753	5,927,864	1,253,801	4,986,056	6,239,857	1,316,491	5,235,358	6,551,849	2.95%	1.48%	1.77%	2.95%	1.48%	1.77%	2.95%	1.48%
2025	1,216,391	4,771,880	5,988,271	1,280,412	5,023,032	6,303,444	1,344,432	5,274,183	6,618,616	2.12%	0.74%	1.02%	2.12%	0.74%	1.02%	2.12%	0.74%
2026	1,245,870	4,823,298	6,069,169	1,311,442	5,077,156	6,388,598	1,377,015	5,331,014	6,708,028	2.42%	1.08%	1.35%	2.42%	1.08%	1.35%	2.42%	1.08%
2027	1,275,344	4,874,725	6,150,069	1,342,467	5,131,290	6,473,757	1,409,591	5,387,854	6,797,445	2.37%	1.07%	1.33%	2.37%	1.07%	1.33%	2.37%	1.07%
2028	1,308,835	4,940,515	6,249,349	1,377,721	5,200,541	6,578,262	1,446,607	5,460,569	6,907,175	2.63%	1.35%	1.61%	2.63%	1.35%	1.61%	2.63%	1.35%
2029	1,334,401	4,977,700	6,312,101	1,404,633	5,239,684	6,644,316	1,474,864	5,501,668	6,976,532	1.95%	0.75%	1.00%	1.95%	0.75%	1.00%	1.95%	0.75%
2030	1,363,852	5,029,094	6,392,946	1,435,634	5,293,783	6,729,417	1,507,415	5,558,472	7,065,888	2.21%	1.03%	1.28%	2.21%	1.03%	1.28%	2.21%	1.03%
2031	1,393,300	5,080,497	6,473,797	1,466,632	5,347,891	6,814,523	1,539,964	5,615,286	7,155,249	2.16%	1.02%	1.26%	2.16%	1.02%	1.26%	2.16%	1.02%
2032	1,427,938	5,149,881	6,577,820	1,50													



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

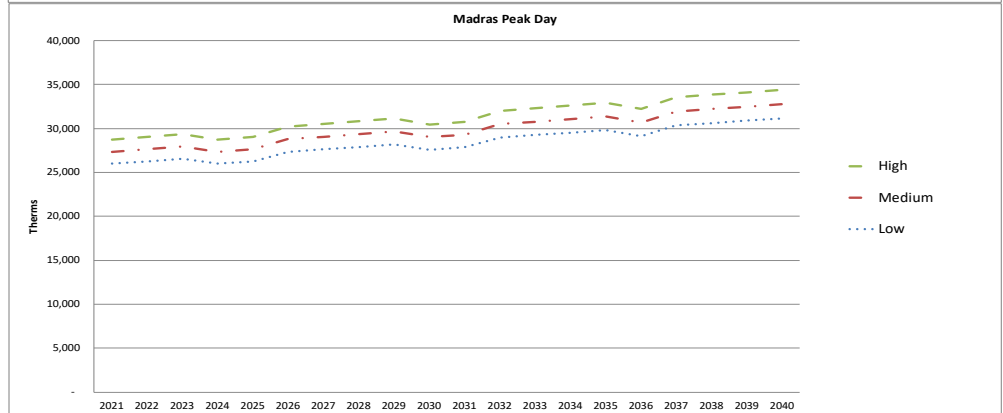
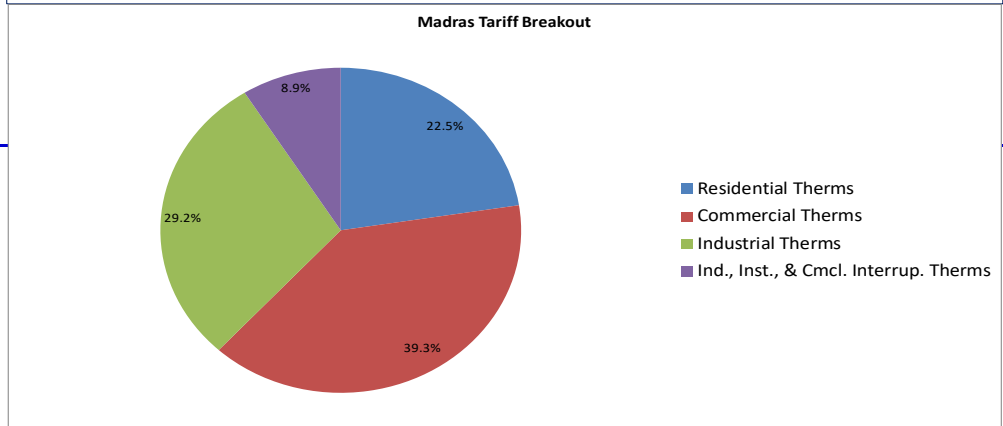
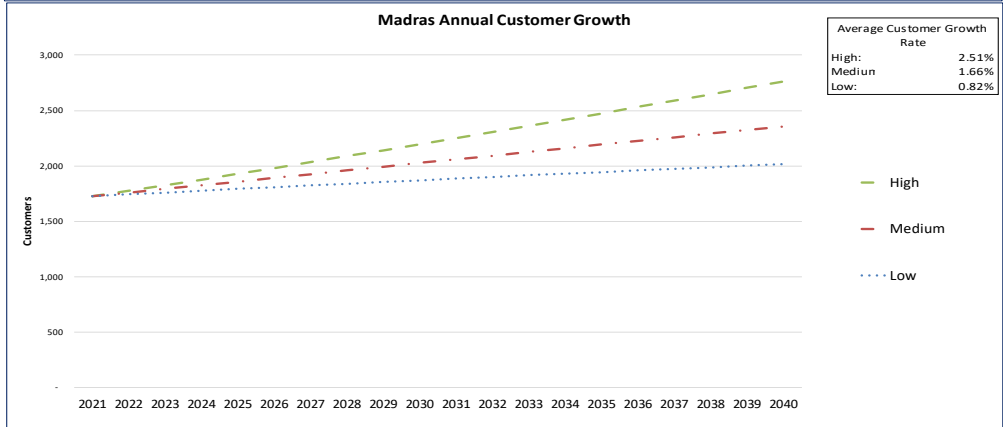
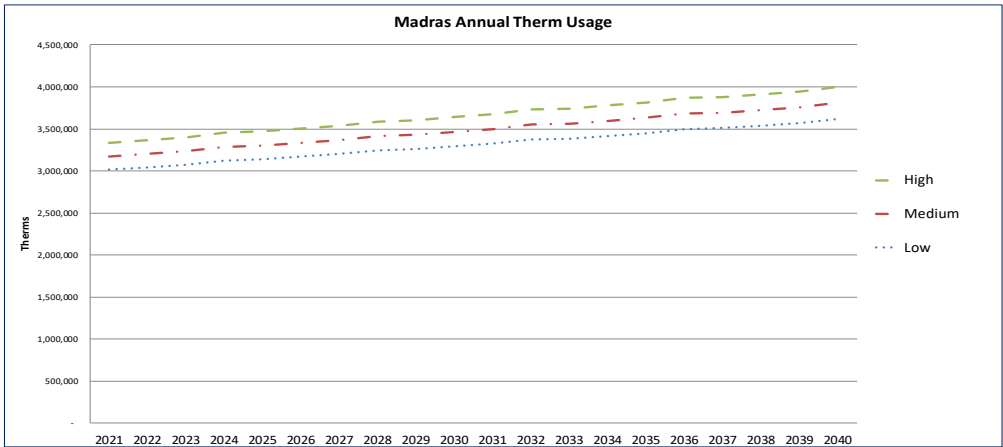
Madras																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,179,642	834,846	3,014,489	2,603,521	569,626	3,173,146	2,733,696	598,107	3,331,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,191,909	852,359	3,044,268	2,622,143	582,349	3,204,493	2,753,251	611,467	3,364,717	0.56%	2.10%	0.99%	0.72%	2.23%	0.99%	0.72%	2.23%
2023	2,220,422	854,568	3,074,990	2,647,690	589,140	3,236,831	2,780,075	618,598	3,398,673	1.30%	0.26%	1.01%	0.97%	1.17%	1.01%	0.97%	1.17%
2024	2,264,295	858,839	3,123,134	2,698,538	588,972	3,287,510	2,833,465	618,420	3,451,885	1.98%	0.50%	1.57%	1.92%	-0.03%	1.57%	1.92%	-0.03%
2025	2,279,740	858,028	3,137,768	2,715,420	589,493	3,304,913	2,849,091	618,968	3,465,059	0.68%	-0.09%	0.47%	0.55%	0.09%	0.47%	0.55%	0.09%
2026	2,302,208	866,752	3,168,960	2,739,510	596,238	3,335,748	2,876,486	626,049	3,502,535	0.99%	1.02%	0.99%	0.96%	1.14%	0.99%	0.96%	1.14%
2027	2,314,885	885,269	3,200,153	2,759,183	609,399	3,368,582	2,897,142	639,870	3,537,011	0.55%	1.14%	0.98%	0.72%	2.21%	0.98%	0.72%	2.21%
2028	2,349,196	897,498	3,246,694	2,795,742	621,830	3,417,573	2,935,529	652,922	3,588,451	1.48%	1.38%	1.45%	1.33%	2.04%	1.45%	1.33%	2.04%
2029	2,360,283	902,230	3,262,513	2,805,508	628,716	3,434,224	2,945,783	660,152	3,605,936	0.47%	0.53%	0.49%	0.35%	1.11%	0.49%	0.35%	1.11%
2030	2,386,730	907,053	3,293,783	2,838,116	629,024	3,467,140	2,980,021	660,476	3,640,497	1.12%	1.03%	0.96%	1.16%	0.05%	0.96%	1.16%	0.05%
2031	2,416,644	908,331	3,324,976	2,870,789	629,186	3,499,974	3,014,328	660,645	3,674,973	1.25%	0.14%	0.95%	1.15%	0.03%	0.95%	1.15%	0.03%
2032	2,448,746	925,041	3,373,787	2,909,572	641,783	3,551,355	3,055,051	673,872	3,728,922	1.33%	1.84%	1.47%	1.35%	2.00%	1.47%	1.35%	2.00%
2033	2,442,094	944,203	3,386,297	2,909,099	655,424	3,564,523	3,054,554	688,195	3,742,749	-0.27%	2.07%	0.37%	-0.02%	2.13%	0.37%	-0.02%	2.13%
2034	2,470,826	946,424	3,417,250	2,934,820	662,284	3,597,105	3,081,562	695,398	3,776,960	1.18%	0.24%	0.91%	0.88%	1.05%	0.91%	0.88%	1.05%
2035	2,498,103	951,001	3,449,103	2,961,477	669,158	3,630,635	3,109,551	702,616	3,812,167	1.10%	0.48%	0.93%	1.08%	1.04%	0.93%	1.04%	0.93%
2036	2,550,905	947,277	3,498,182	3,021,344	660,953	3,682,297	3,172,411	694,000	3,866,411	2.11%	-0.39%	1.42%	2.02%	-1.23%	1.42%	2.02%	-1.23%
2037	2,554,560	955,901	3,510,461	3,027,620	667,601	3,695,222	3,179,001	700,982	3,879,983	0.14%	0.91%	0.35%	1.01%	0.15%	0.35%	1.01%	0.15%
2038	2,565,637	975,321	3,540,958	3,045,906	681,419	3,727,325	3,198,201	715,490	3,913,691	0.43%	2.03%	0.87%	0.60%	2.07%	0.87%	0.60%	2.07%
2039	2,577,185	993,339	3,570,523	3,063,054	695,391	3,758,445	3,216,207	730,161	3,946,368	0.45%	1.85%	0.83%	0.56%	2.05%	0.83%	0.56%	2.05%
2040	2,623,488	996,596	3,620,084	3,109,424	701,190	3,810,615	3,264,896	736,250	4,001,145	1.80%	0.33%	1.39%	0.83%	1.39%	1.51%	0.83%	1.39%

Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	2,287	23,706	25,993	1,561	25,801	27,361	1,639	27,091	28,729	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,335	23,928	26,264	1,595	26,050	27,646	1,675	27,353	29,028	2.10%	0.94%	1.04%	2.23%	0.97%	1.04%	2.23%	0.97%
2023	2,341	24,194	26,535	1,614	26,318	27,932	1,695	27,633	29,328	0.26%	1.11%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%
2024	2,353	25,633	25,986	1,614	25,740	27,353	1,694	27,027	28,721	0.50%	-2.32%	-2.07%	-0.03%	-2.20%	-2.07%	-0.03%	-2.20%
2025	2,351	26,051	26,403	1,615	26,019	27,634	1,696	27,320	29,015	-0.09%	1.14%	1.03%	1.08%	1.03%	1.08%	1.03%	1.08%
2026	2,375	24,975	27,350	1,634	27,156	28,789	1,715	28,513	30,229	1.02%	4.49%	4.18%	1.14%	4.37%	4.18%	1.14%	4.37%
2027	2,425	25,200	27,625	1,670	27,410	29,079	1,753	28,780	30,533	2.14%	0.90%	1.01%	2.21%	0.94%	1.01%	2.21%	0.94%
2028	2,459	25,433	27,891	1,704	27,656	29,359	1,789	29,039	30,827	1.38%	0.92%	0.96%	2.04%	0.90%	0.96%	2.04%	0.90%
2029	2,472	25,696	28,167	1,723	27,927	29,650	1,809	29,324	31,132	0.53%	1.03%	0.99%	1.11%	0.98%	0.99%	1.11%	0.98%
2030	2,485	25,096	27,581	1,723	27,310	29,033	1,810	28,675	30,485	0.53%	-2.33%	-2.08%	0.05%	-2.21%	-2.08%	0.05%	-2.21%
2031	2,489	25,360	27,849	1,724	27,591	29,315	1,810	28,971	30,781	0.14%	1.05%	0.97%	0.03%	1.03%	0.97%	0.03%	1.03%
2032	2,534	26,451	28,985	1,758	28,752	30,511	1,846	29,310	32,036	1.84%	4.30%	4.08%	2.00%	4.21%	4.08%	2.00%	4.21%
2033	2,587	26,673	29,260	1,796	29,005	30,800	1,885	30,455	32,340	2.07%	0.84%	0.95%	2.13%	0.88%	0.95%	2.13%	0.88%
2034	2,593	26,941	29,534	1,814	29,274	31,089	1,905	30,738	32,643	0.24%	1.00%	0.94%	1.05%	0.93%	0.94%	1.05%	0.93%
2035	2,605	27,202	29,808	1,833	29,543	31,377	1,925	31,021	32,946	0.48%	0.87%	0.93%	1.04%	0.92%	0.93%	1.04%	0.92%
2036	2,595	26,564	29,159	1,811	28,883	30,694	1,901	30,327	32,228	-0.39%	-2.35%	-2.18%	-1.23%	-2.24%	-2.18%	-1.23%	-2.24%
2037	2,619	27,722	30,341	1,829	30,109	31,938	1,920	31,614	33,535	0.91%	4.36%	4.05%	1.01%	4.24%	4.05%	1.01%	4.24%
2038	2,672	27,939	30,611	1,867	30,355	32,222	1,960	31,873	33,833	2.03%	0.78%	0.89%	2.07%	0.82%	0.89%	2.07%	0.82%
2039	2,721	28,159	30,880	1,905	30,601	32,506	2,000	32,131	34,131	1.85%	0.79%	0.88%	2.05%	0.81%	0.88%	2.05%	0.81%
2040	2,730	28,410	31,141	1,921	30,859	32,780	2,017	32,402	34,419	0.33%	0.89%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%

Therms Usage by Class												Annual Change					
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	681,002	2,333,487	3,014,489	716,845	2,456,302	3,173,146	752,687	2,579,117	3,331,804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	690,982	2,353,286	3,044,268	727,350	2,477,143	3,204,493	763,717	2,601,000	3,364,717	1.47%	0.85%	0.99%	1.47%	0.85%	0.99%	1.47%	0.85%
2023	701,191	2,373,799	3,074,989	738,095	2,498,736	3,236,831	775,000	2,623,672	3,398,673	1.48%	0.87%	1.01%	1.48%	0.87%	1.01%	1.48%	0.87%
2024	715,484	2,407,650	3,123,134	753,141	2,534,369	3,287,510	790,798	2,661,087	3,451,885	2.04%	1.43%	1.57%	2.04%	1.43%	1.57%	2.04%	1.43%
2025	721,968	2,415,800	3,137,768	759,966	2,542,947	3,302,913	797,964	2,670,995	3,465,059	0.91%	0.34%	0.47%	0.91%	0.34%	0.47%	0.91%	0.34%
2026	732,333	2,436,628	3,168,960	770,876	2,564,871	3,335,748	809,420	2,693,115	3,502,535	1.44%	0.86%	0.99%	1.44%	0.86%	0.99%	1.44%	0.86%
2027	742,697	2,457,456	3,200,153	781,787	2,586,796	3,368,582	820,876	2,716,135	3,537,011	1.42%	0.85%	0.98%	1.42%	0.85%	0.98%	1.42%	0.85%
2028	756,716	2,489,978	3,246,694	796,543	2,621,029	3,417,573	836,371	2,752,081	3,588,451	1.89%	1.32%	1.45%	1.89%	1.32%	1.45%	1.89%	1.32%
2029	763,420	2,499,093	3,262,513	803,600	2,630,624	3,434,224	843,780	2,762,155	3,605,936	0.89%	0.37%	0.49%	0.89%	0.37%	0.49%	0.89%	0.37%
2030	773,811	2,519,972	3,293,783	814,538	2,652,602	3,467,140	855,265	2,785,232	3,640,497	1.36%	0.84%	0.96%	1.36%	0.84%	0.96%	1.36%	0.84%
2031	784,176	2,540,800	3,324,976	825,448	2,674,526	3,499,974	866,720	2,808,253	3,674,973	1.34%	0.83%	0.95%	1.34%	0.83%	0.95%	1.34%	0.83%
2032	798,782	2,575,004	3,373,787	840,824	2,710,531	3,551,355	882,865	2,846,057	3,728,922	1.86%	1.35%	1.47%	1.86%	1.35%	1.47%	1.86%	1.35%
2033	804,639	2,581,658	3,386,297	846,988	2,717,535	3,564,523	889,337	2,853,412	3,742,749	0.73%	0.26%	0.37%	0.73%	0.26%	0.37%	0.73%	0.26%
2034	814,924	2,602,326	3,417,250	857,814	2,739,290	3,597,105	900,756	2,876,255	3,776,960	1.28%	0.80%	0.91%	1.28%	0.80%	0.91%	1.28%	0.80%
2035	825,423	2,623,680	3,449,103	868,866	2,761,769	3,630,635	912,310	2,899,857	3,812,167	1.29%	0.82%	0.93%	1.29%	0.82%	0.93%	1.29%	0.82%
2036	840,122	2,658,060	3,498,182	884,339	2,797,957	3,682,297	928,556	2,937,855	3,866,411	1.78%	1.31%	1.42%	1.78%	1.31%	1.42%	1.78%	1.31%
2037	845,813	2,664,648	3,510,461	890,329	2,804,892	3,695,222	934,846	2,945,137	3,879,983	0.68%	0.25%	0.35%	0.68%	0.25%	0.35%	0.68%	0.25%
2038	855,947	2,685,012	3,540,958	900,997	2,826,328	3,727,325	946,046	2,9									





Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

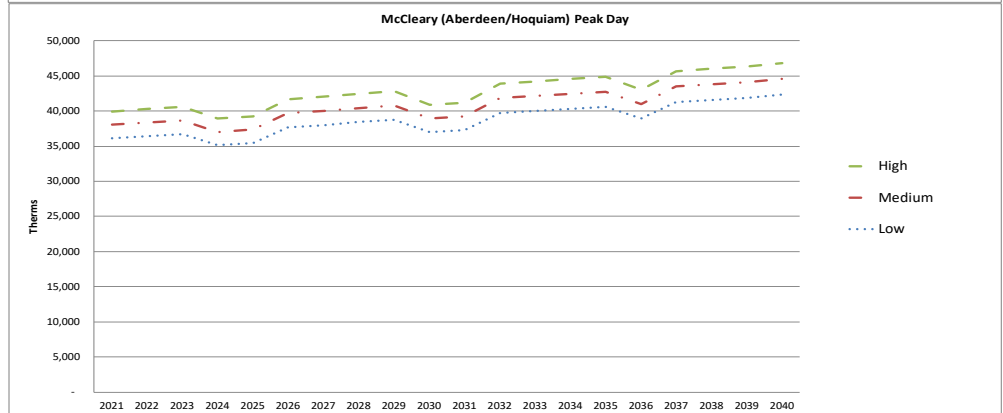
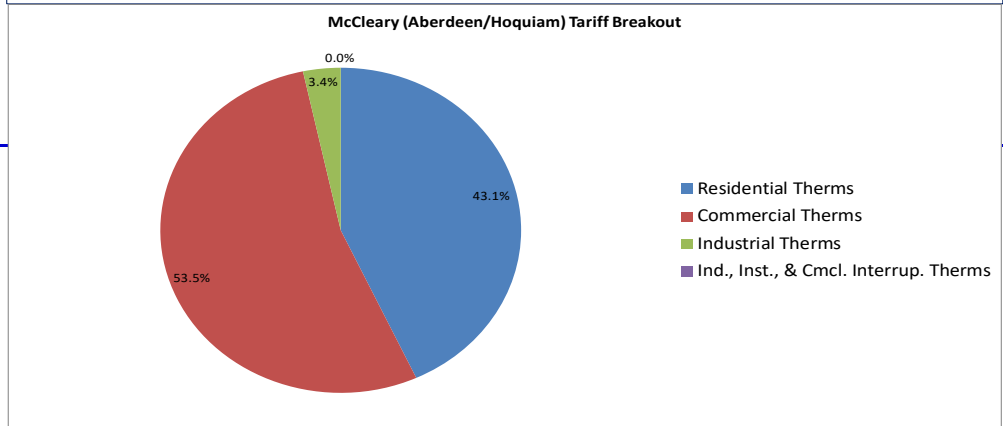
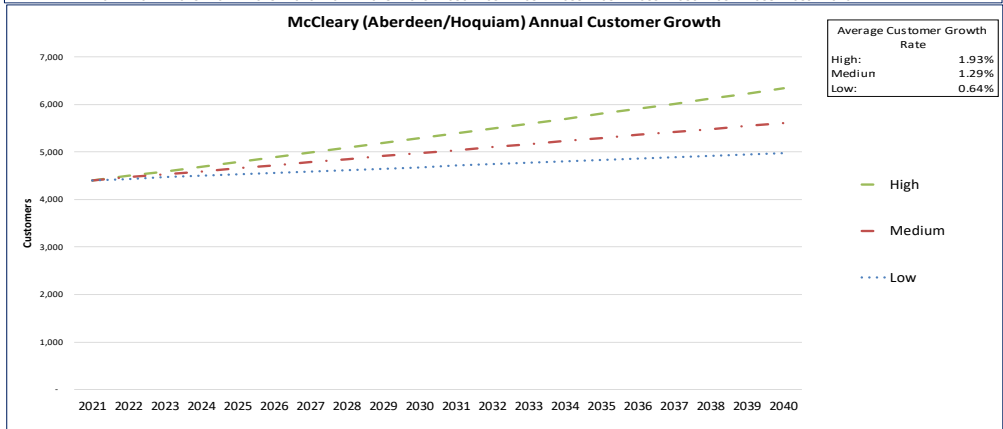
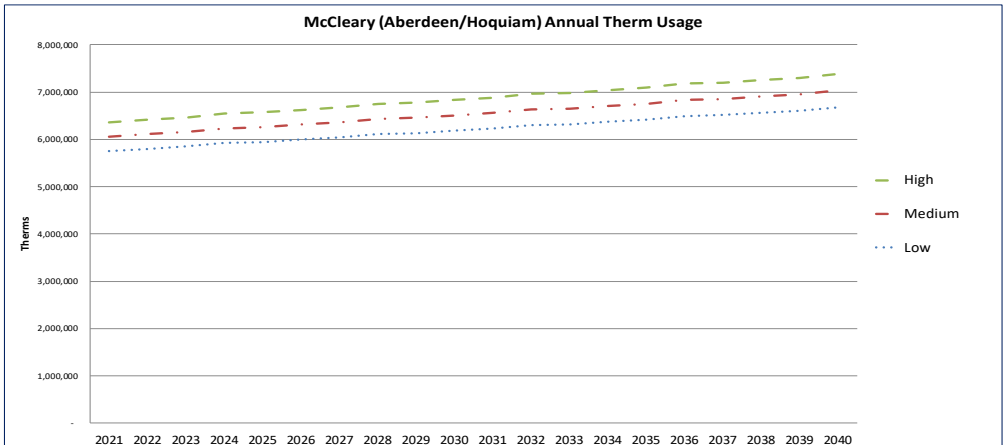
McCleary (Aberdeen/Hoquiam)

Table with columns for Annual Requirements (Therms) and Annual Change. Sub-headers include Low, Medium, High for Heating, BaseLoad, and Total. Rows 2021-2040 show demand values and percentage changes.

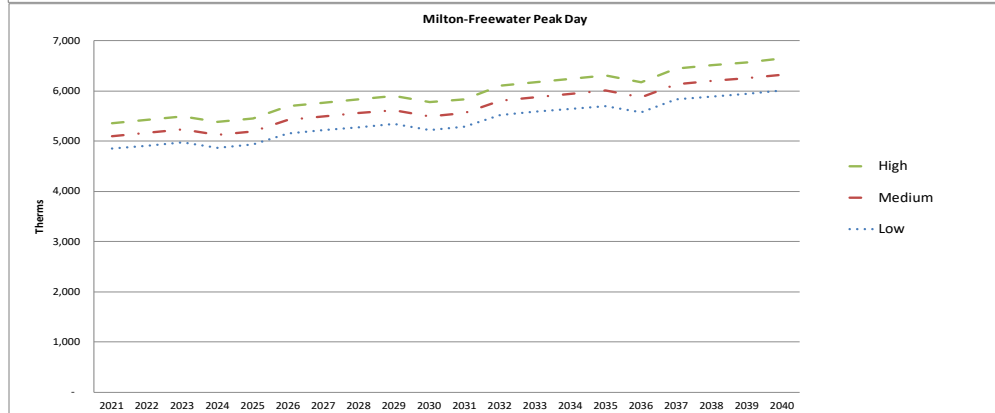
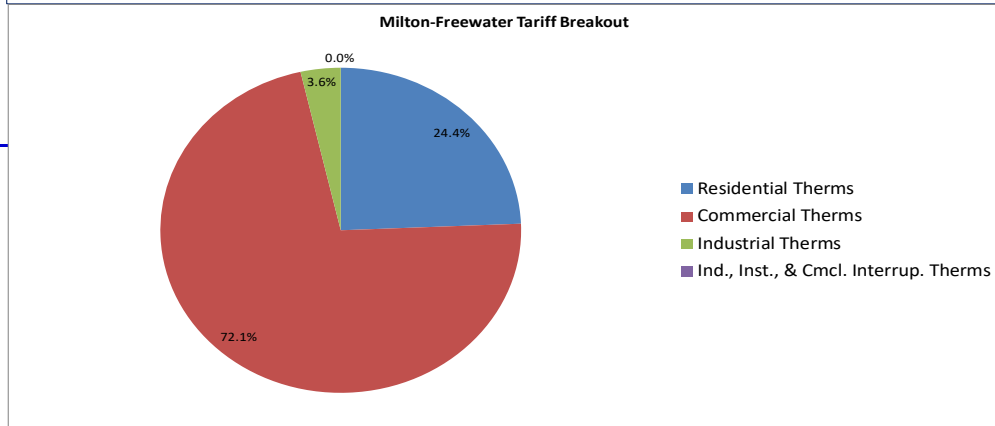
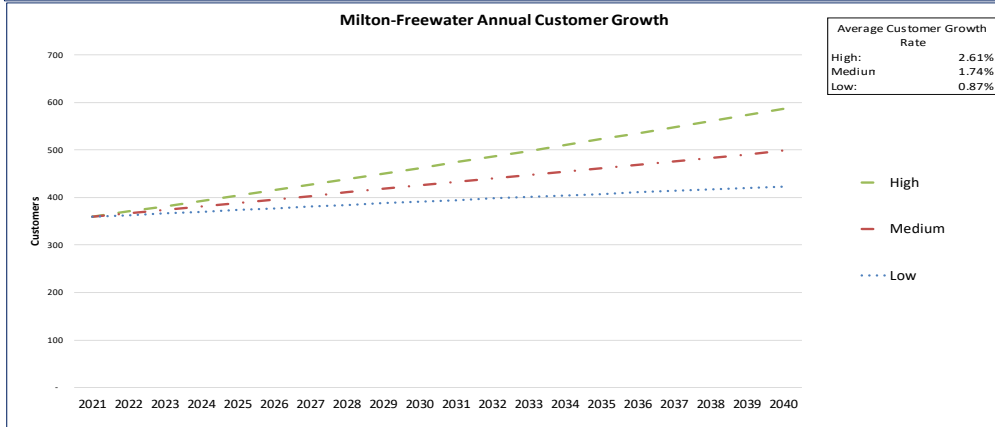
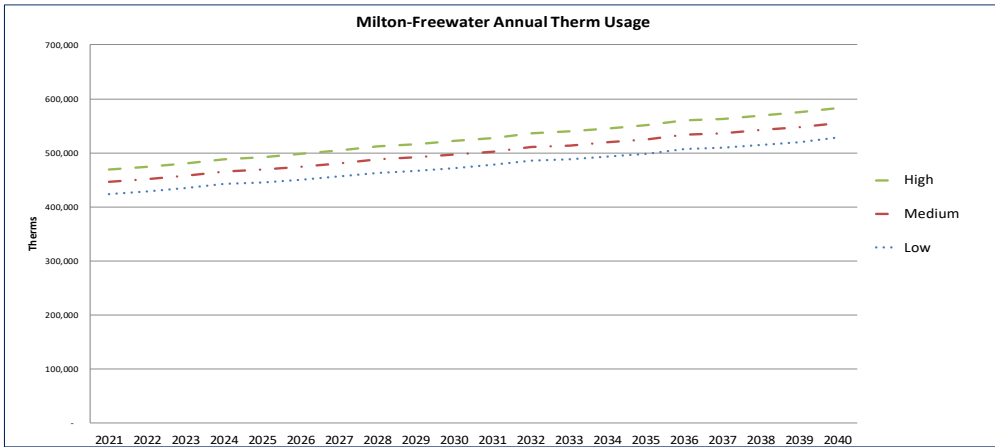
Table with columns for Peak Day - BaseLoad and Annual Change. Sub-headers include Low, Medium, High for Daily BaseLoad, Peak, and Total. Rows 2021-2040 show peak day demand values and percentage changes.

Table with columns for Therms Usage by Class and Annual Change. Sub-headers include Low, Medium, High for Res, Com/Ind, and Total. Rows 2021-2040 show usage values and percentage changes.

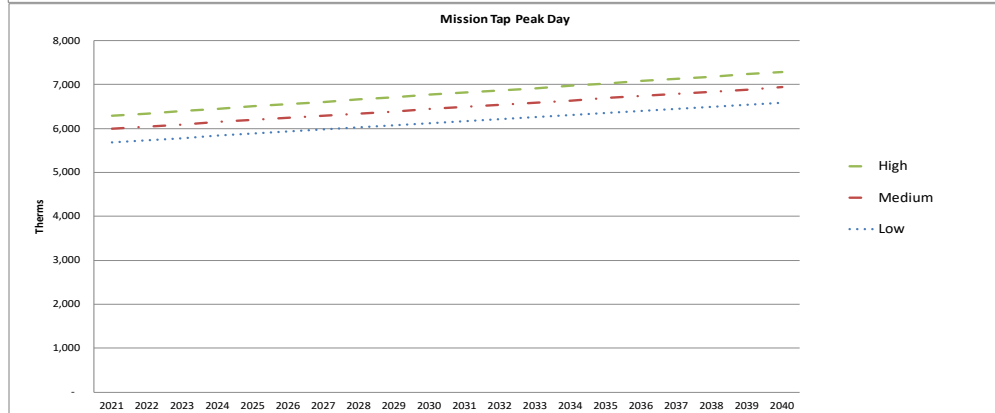
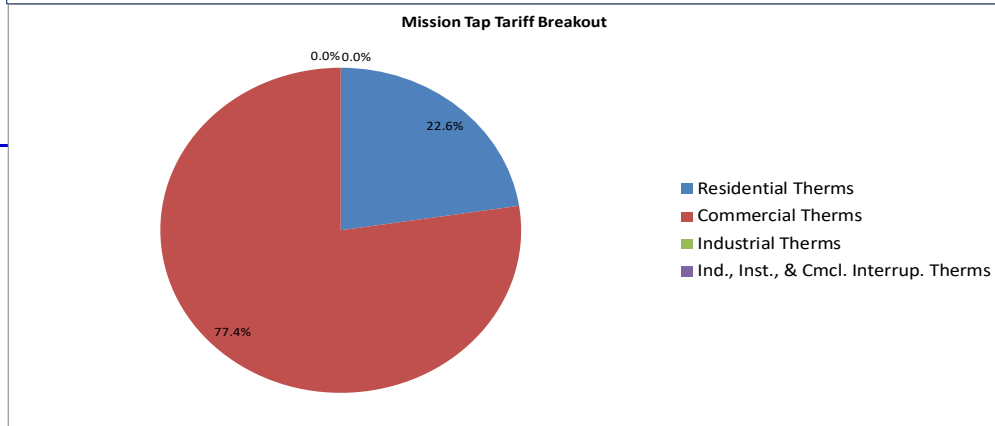
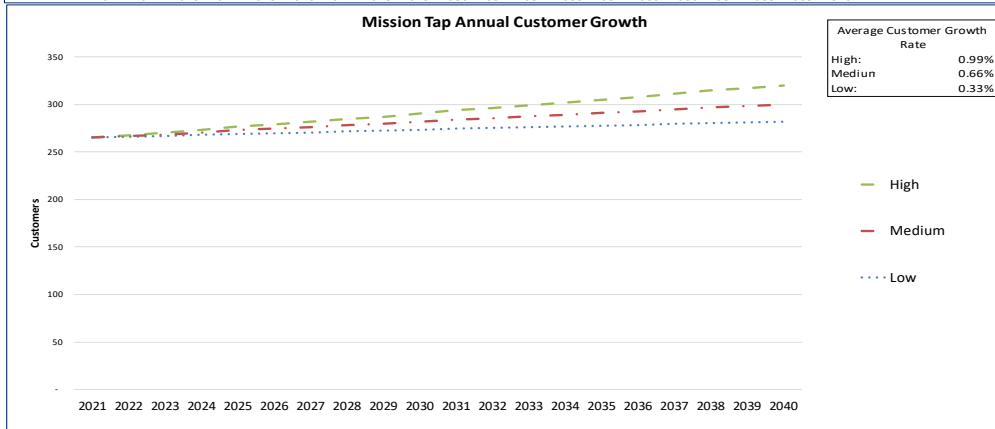
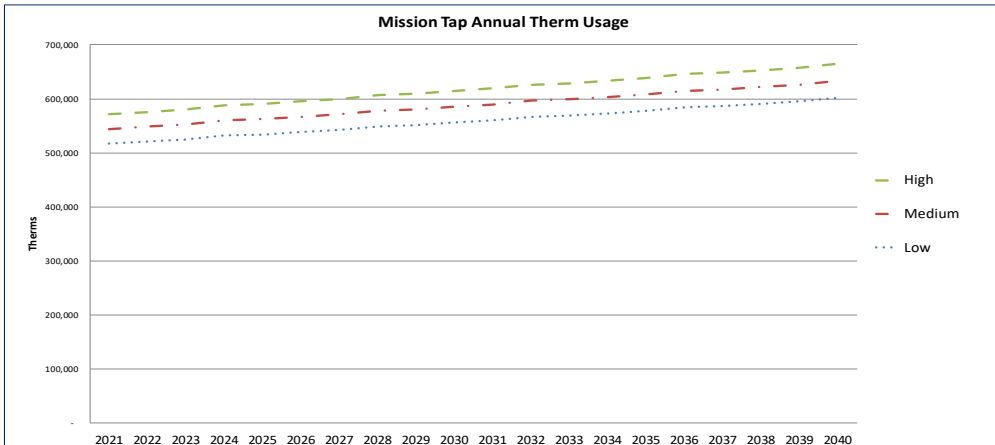
Table with columns for Customer Count Forecast and Annual Change. Sub-headers include Low, Medium, High for Res, Com/Ind, and Total. Rows 2021-2040 show customer count values and percentage changes.



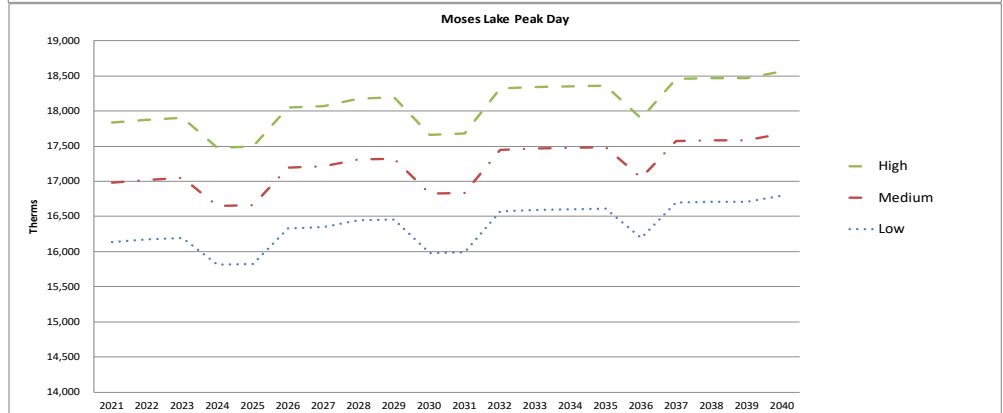
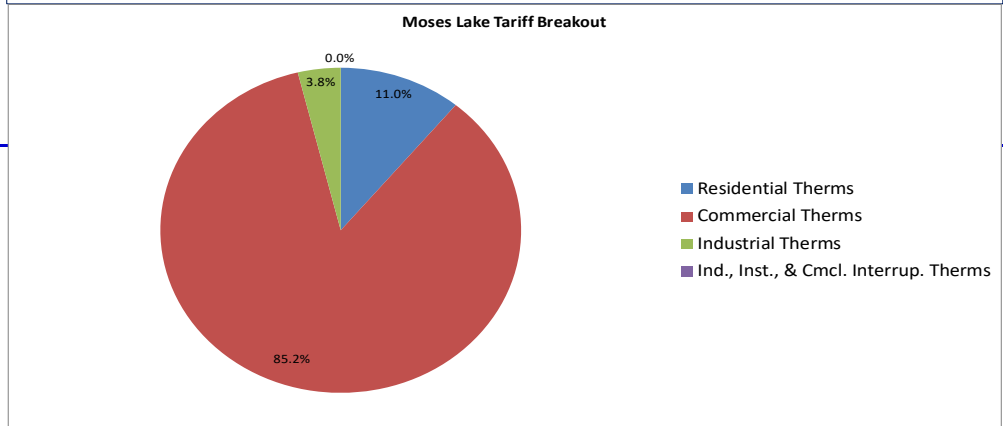
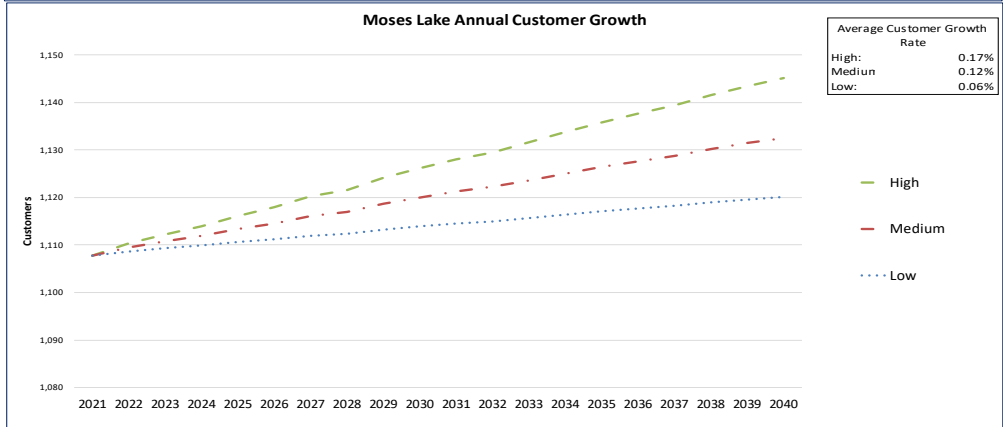
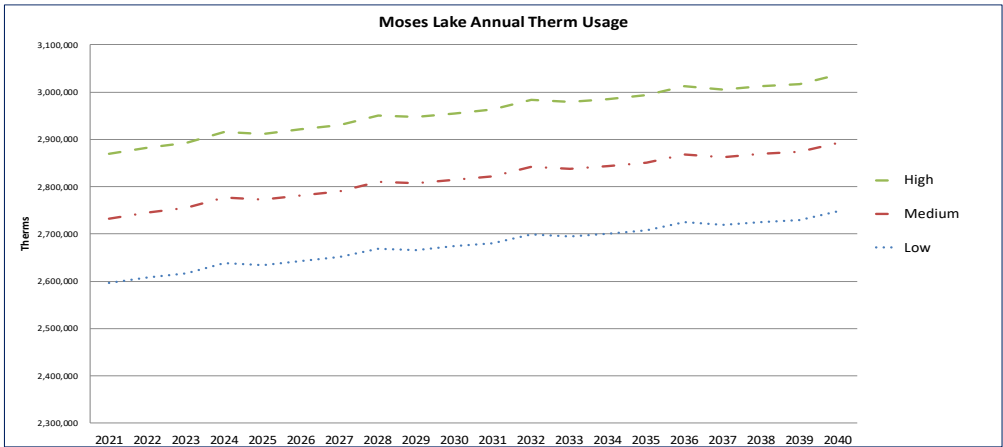






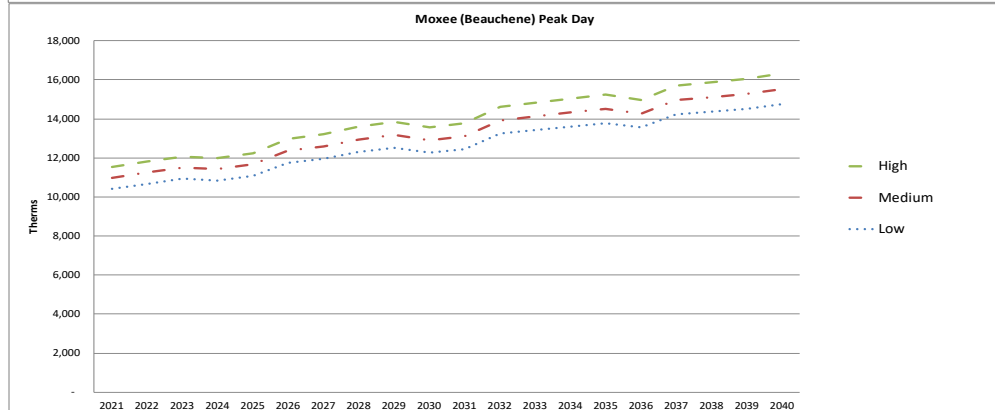
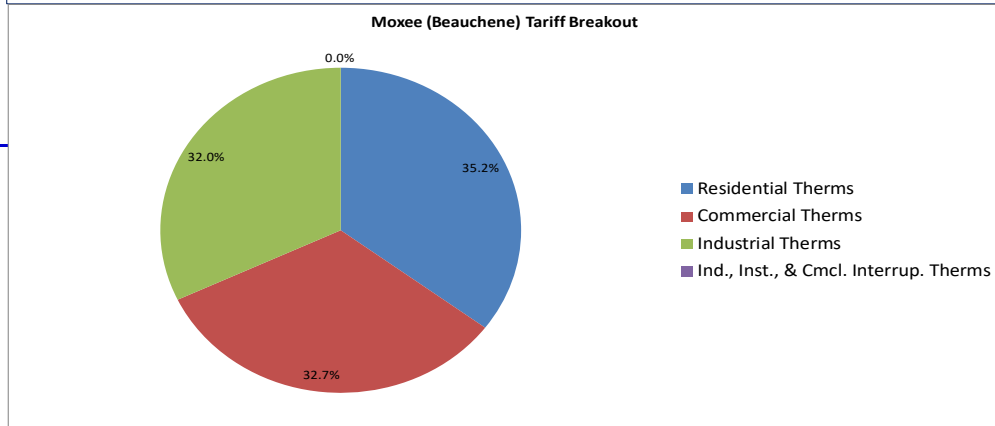
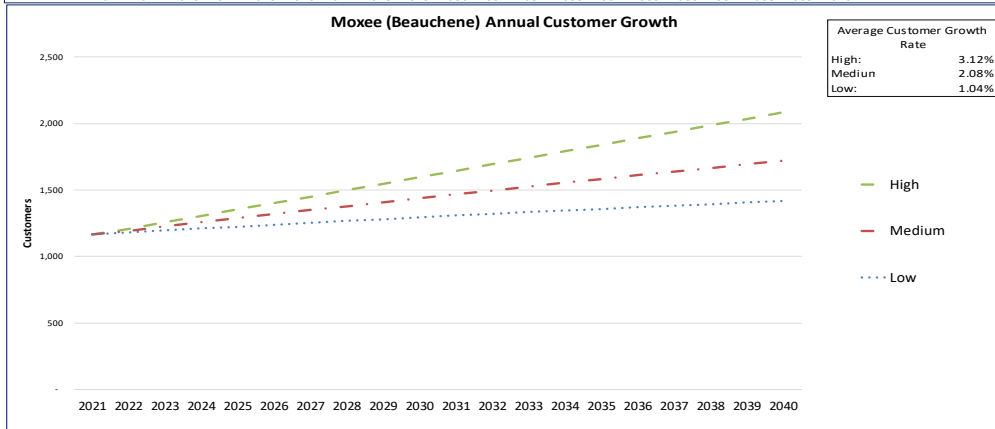
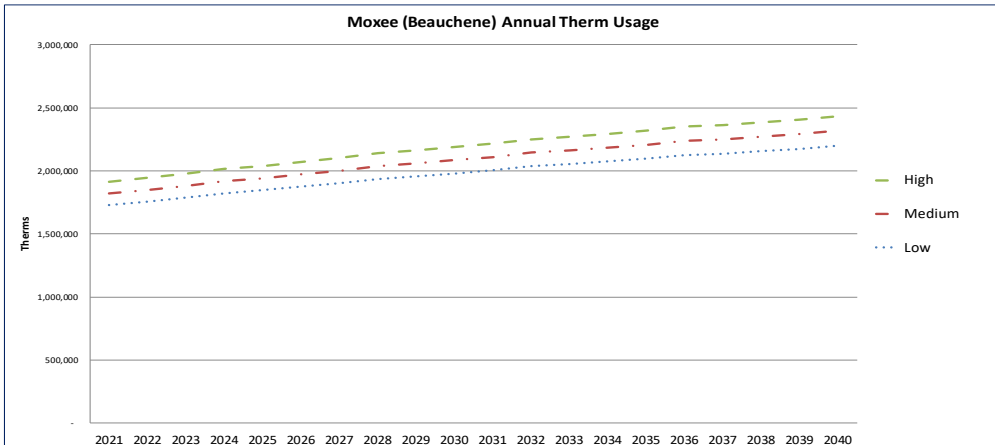






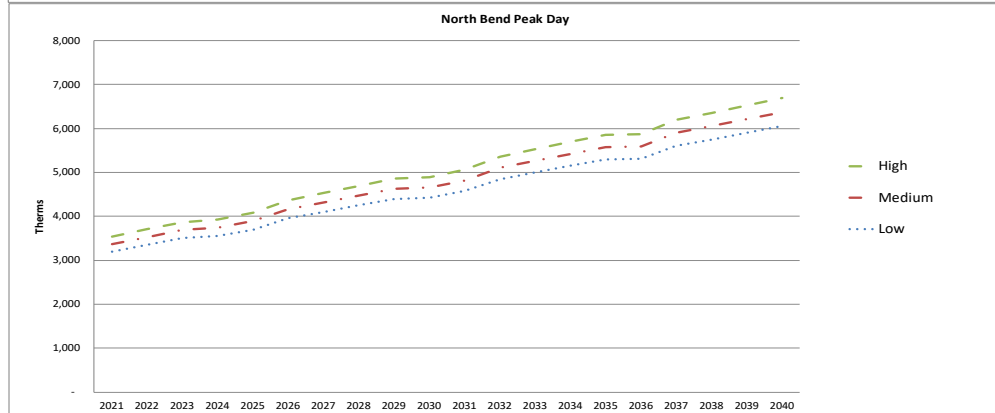
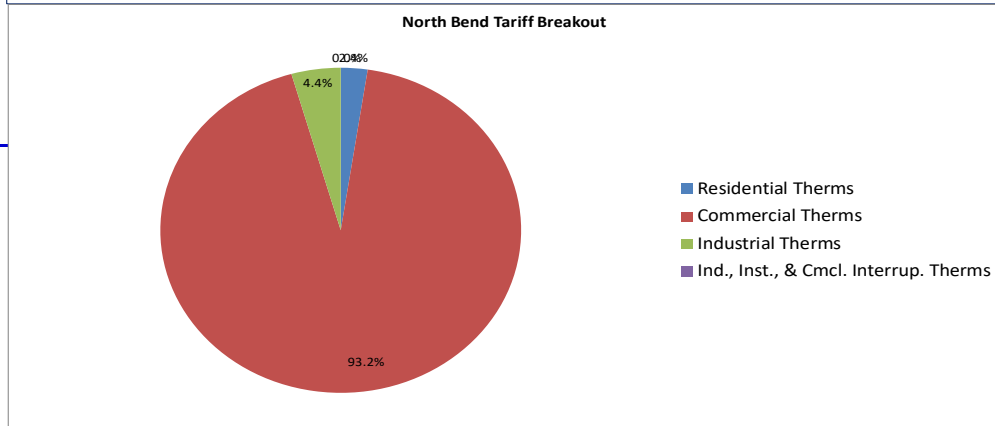
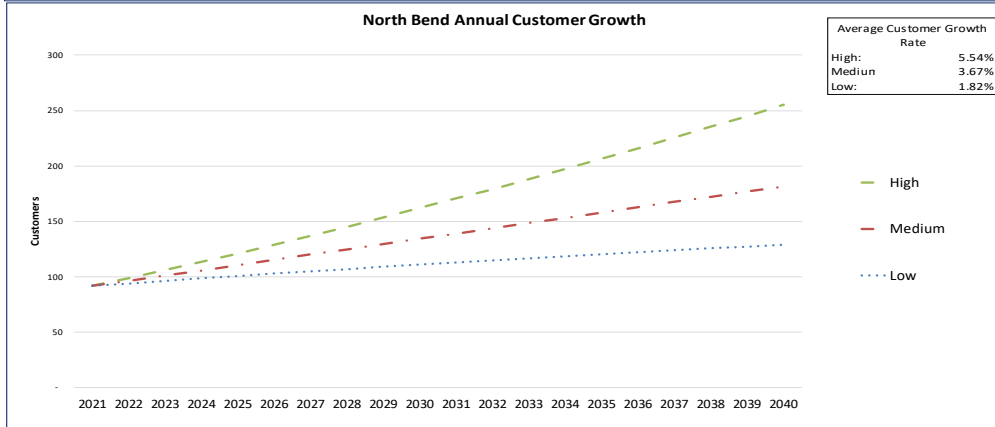
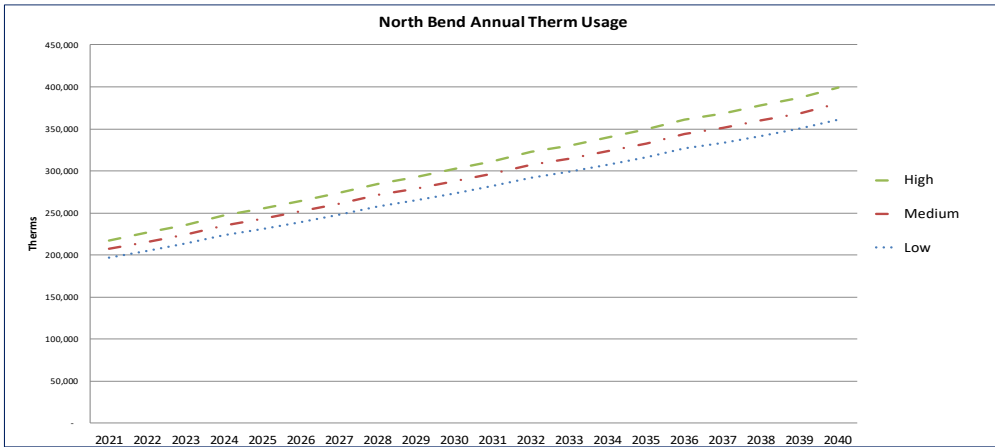




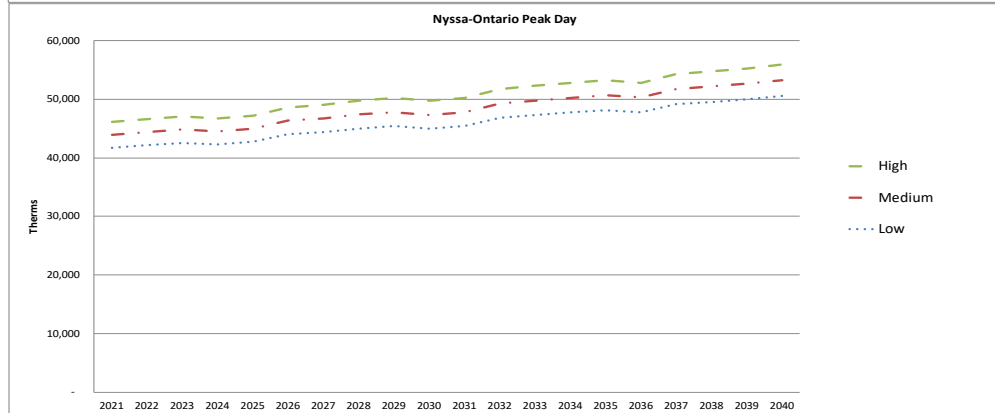
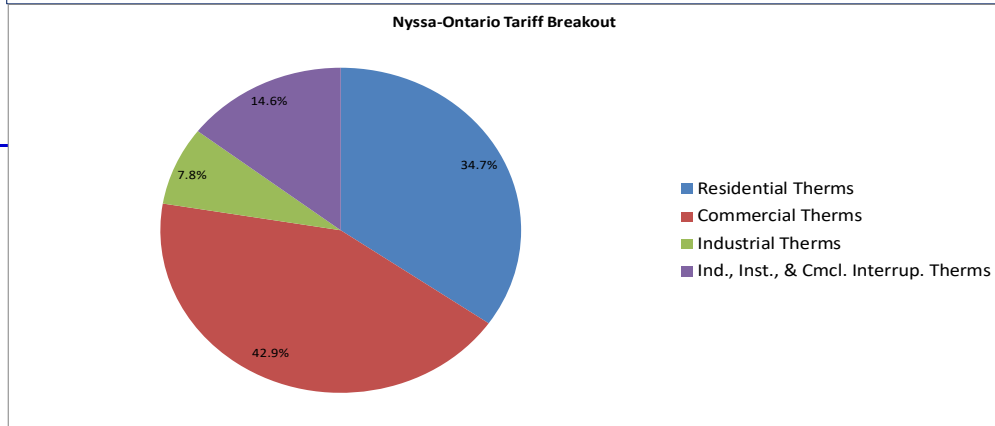
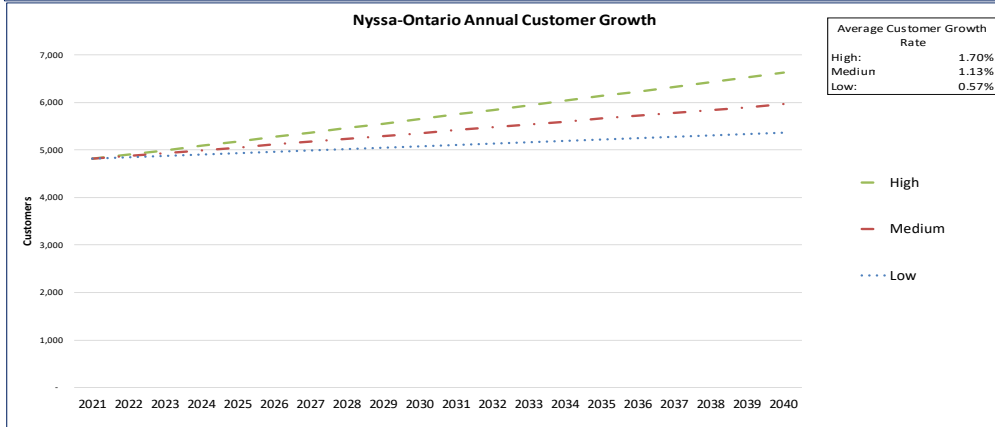
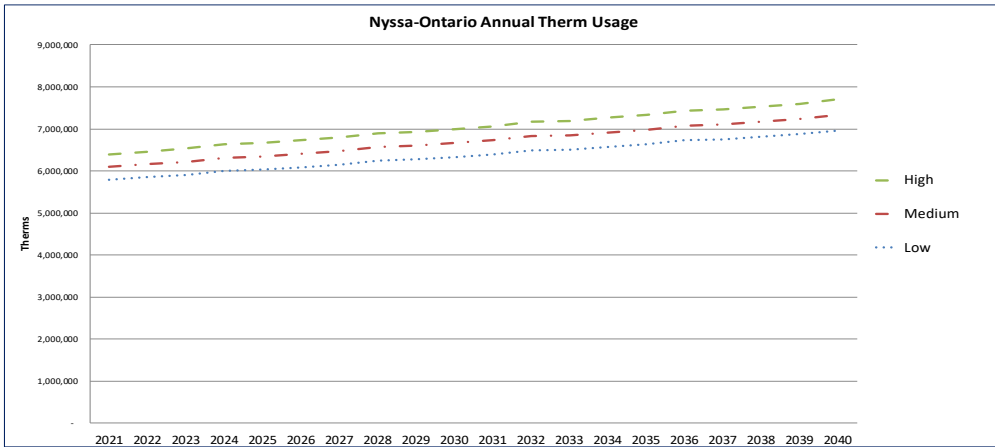


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: North Bend, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Therms Usage by Class, and Customer Count Forecast. Each section contains columns for Low, Medium, and High categories with sub-columns for Heating, BaseLoad, and Total, along with percentage change values.

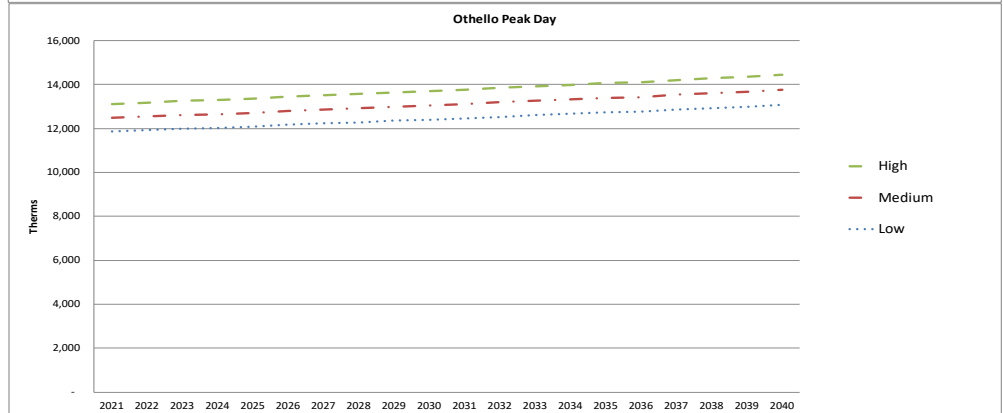
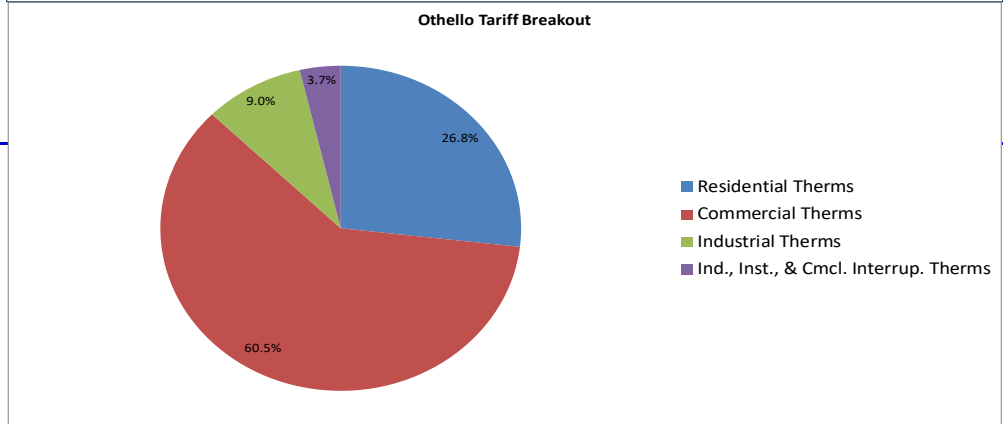
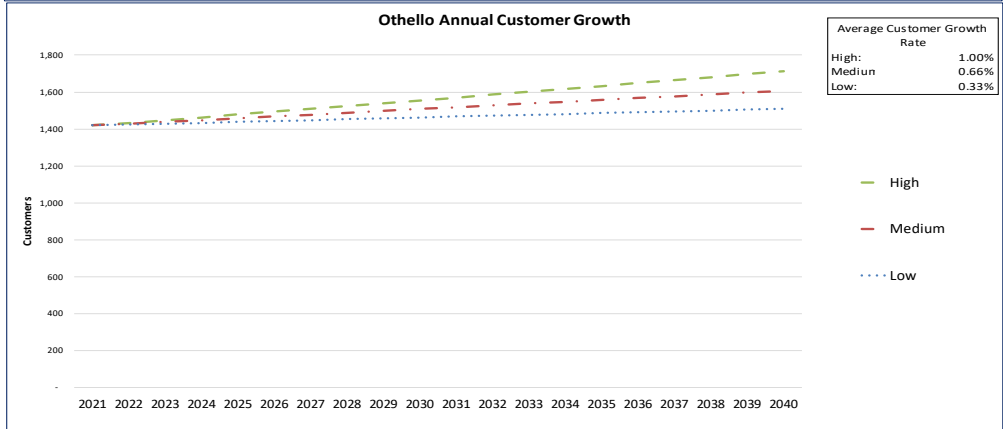
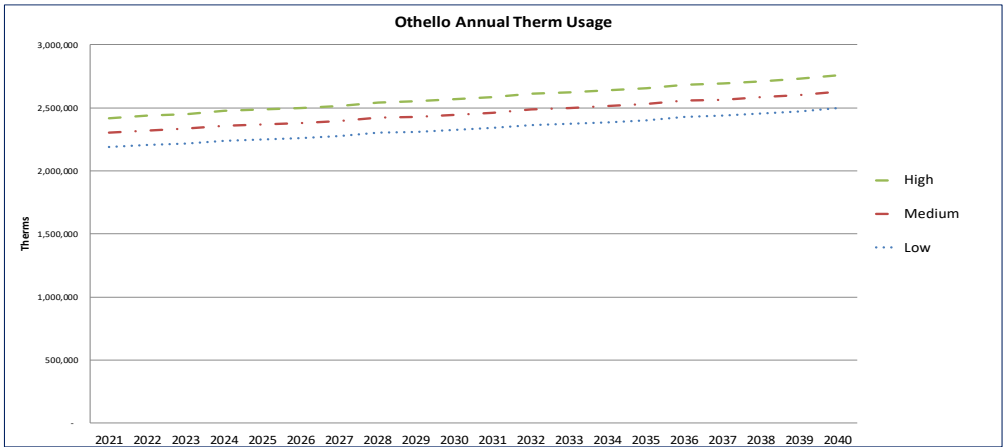






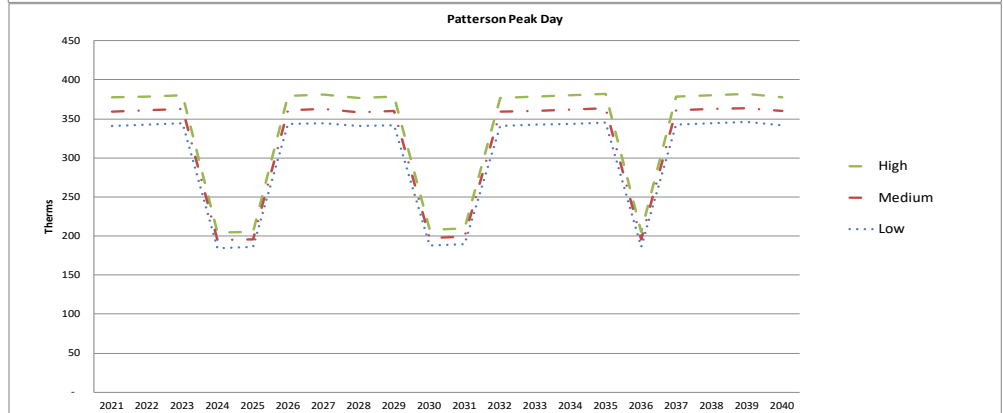
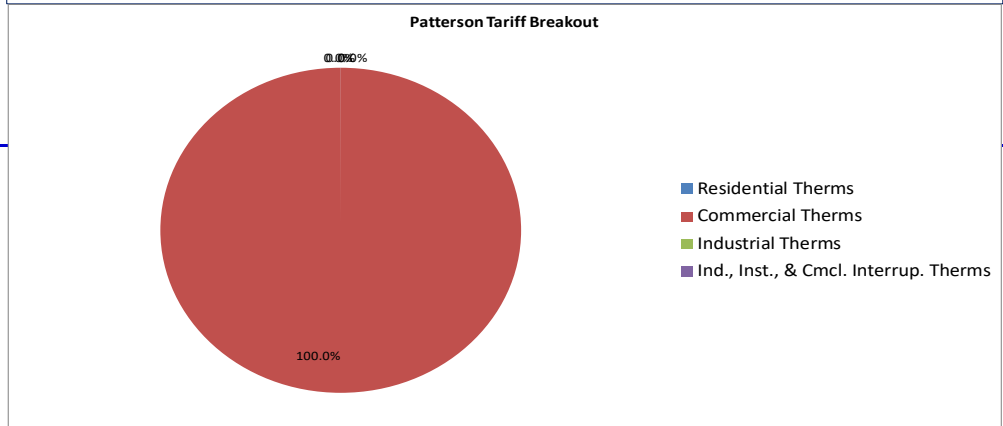
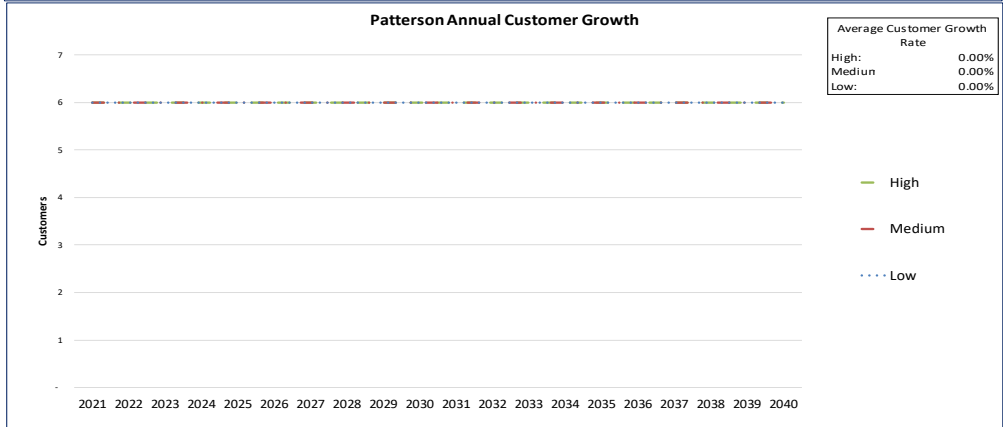
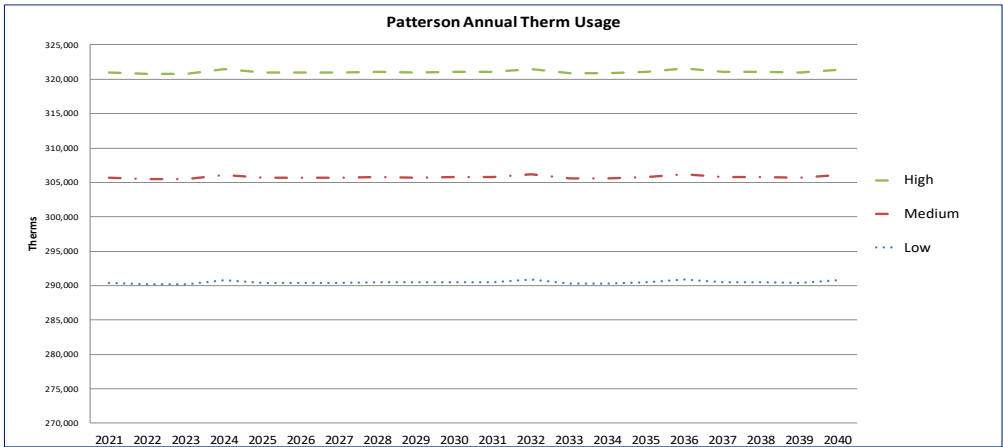
Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Othello Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Annual Change, Therms Usage by Class, Annual Change, and Customer Count Forecast, Annual Change. Each section contains a grid of data for years 2021-2040 across various categories like Heating, BaseLoad, Total, and Annual Change.









Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

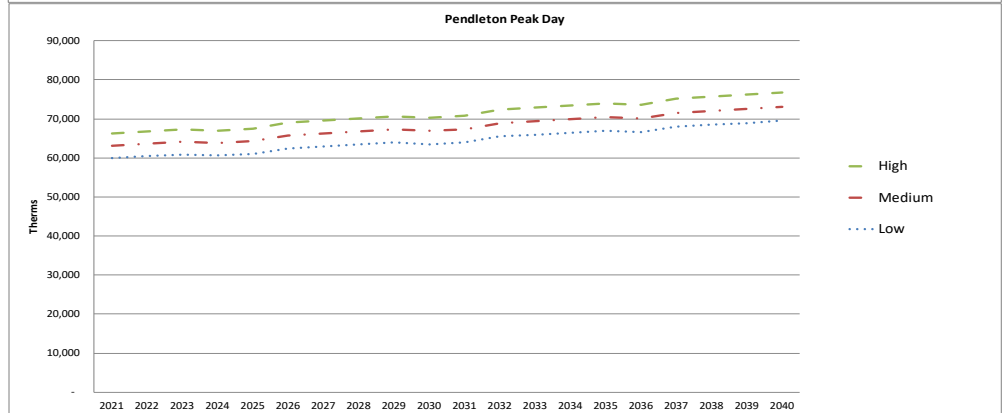
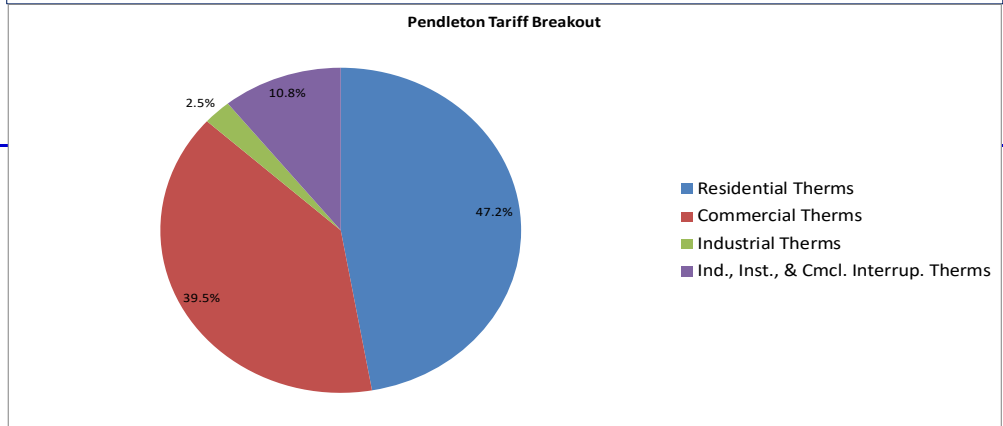
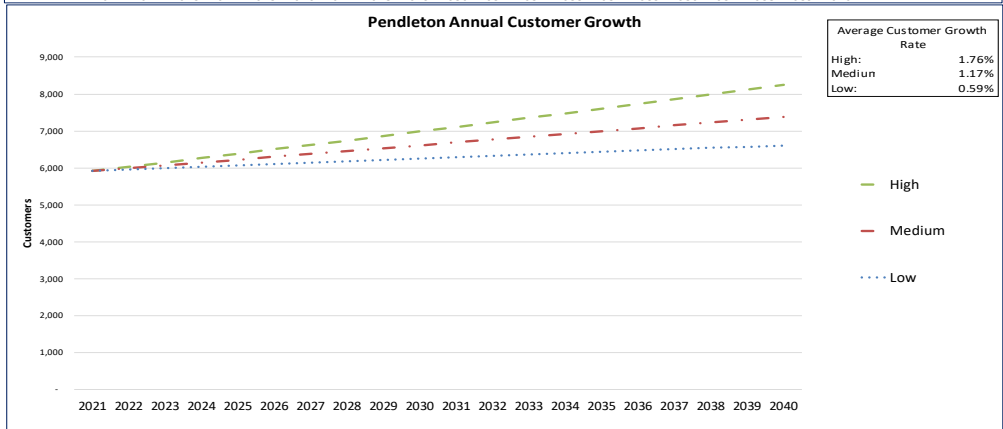
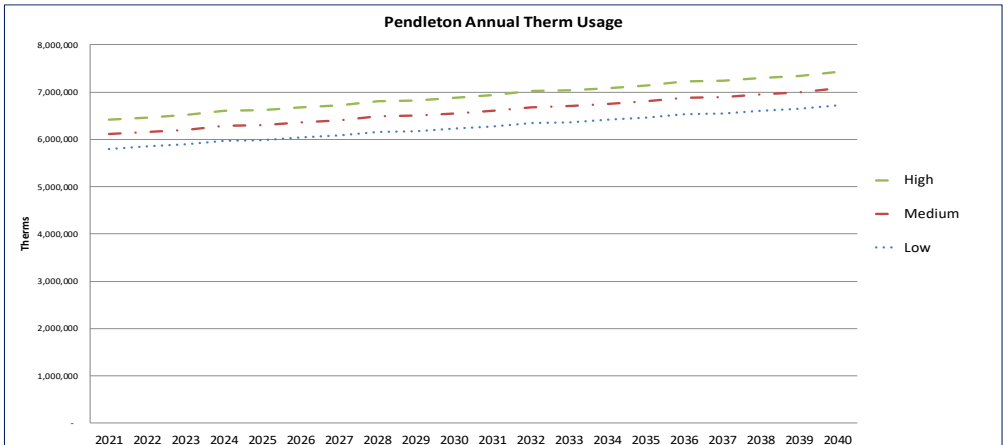
Pendleton

Annual Requirements (Therms) table with columns for Low, Medium, High and Annual Change (Low, Medium, High) across various years from 2021 to 2040.

Peak Day - BaseLoad table with columns for Low, Medium, High and Annual Change (Low, Medium, High) across various years from 2021 to 2040.

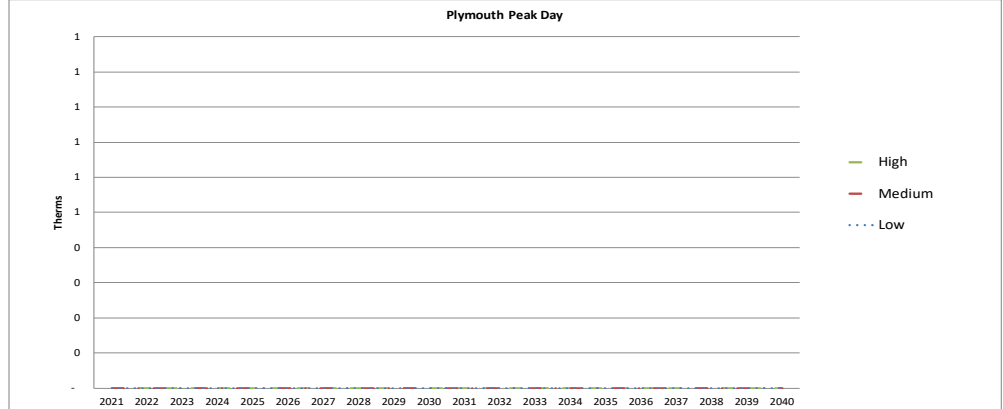
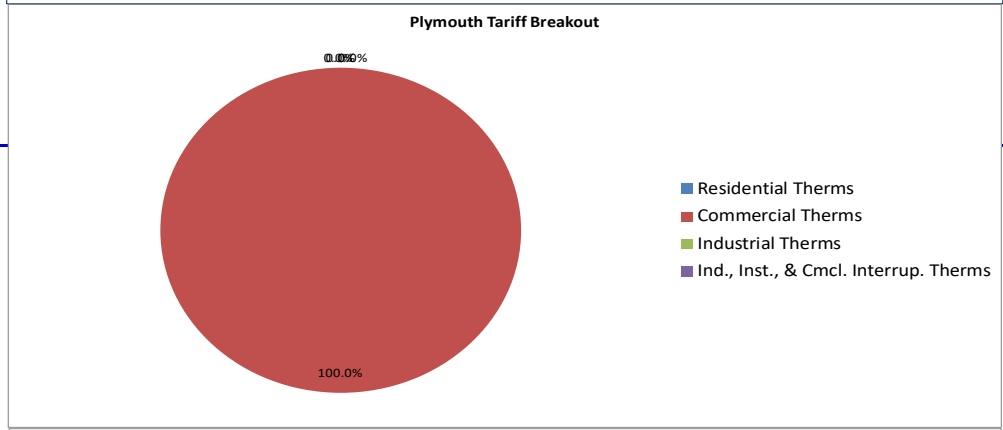
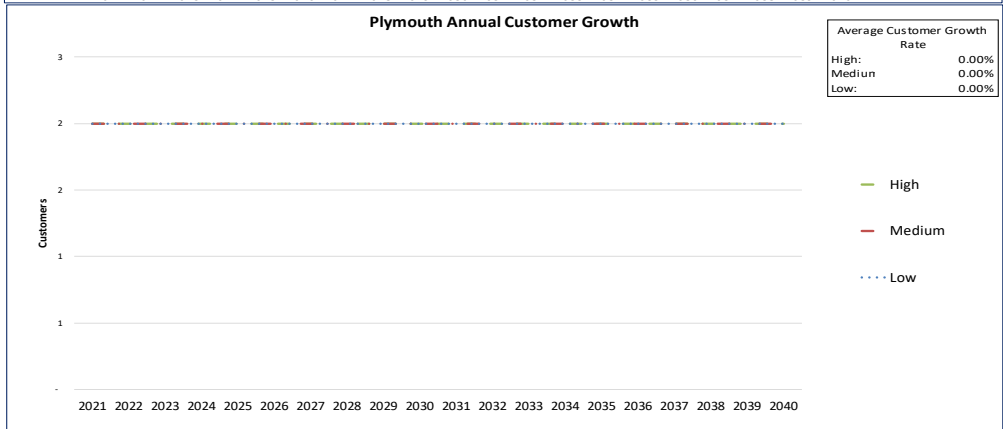
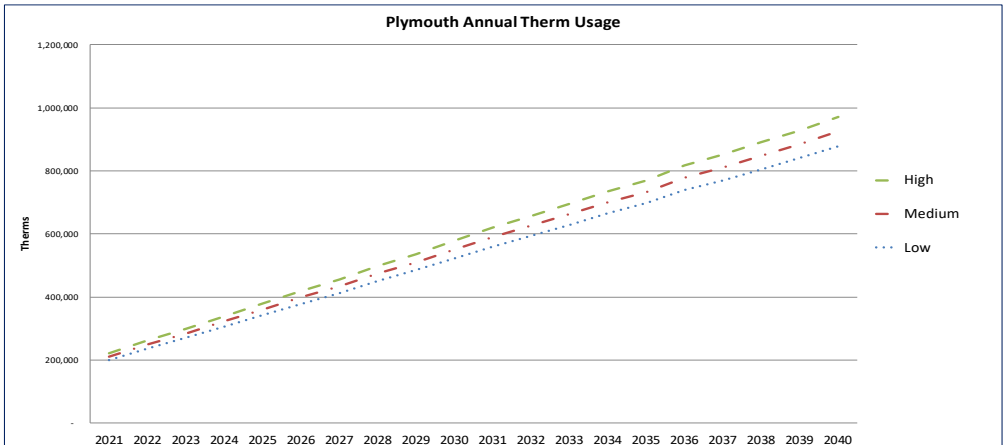
Therms Usage by Class table with columns for Low, Medium, High and Annual Change (Low, Medium, High) across various years from 2021 to 2040.

Customer Count Forecast table with columns for Low, Medium, High and Annual Change (Low, Medium, High) across various years from 2021 to 2040.

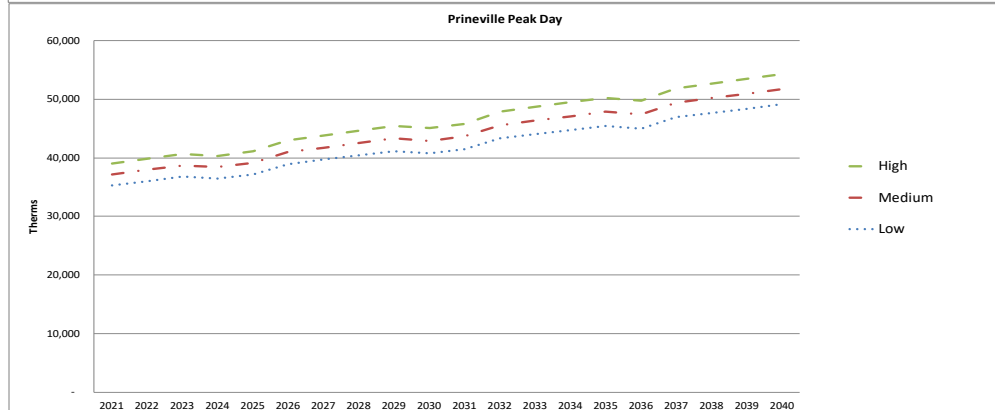
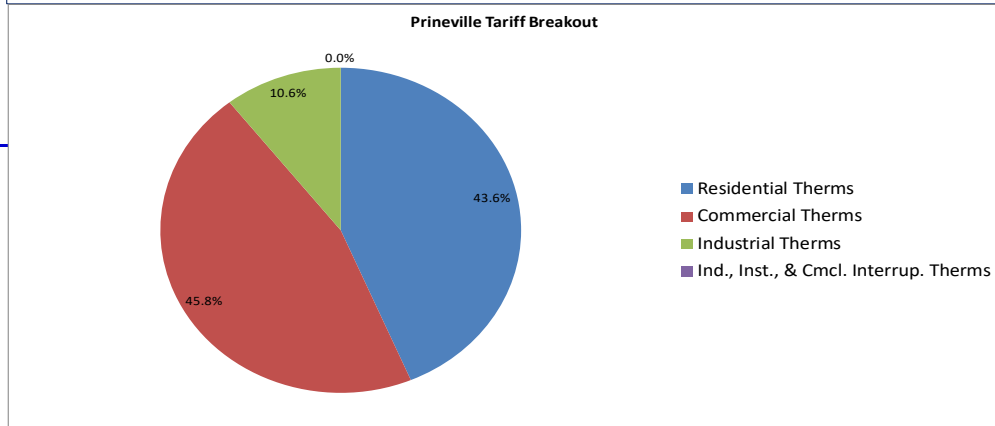
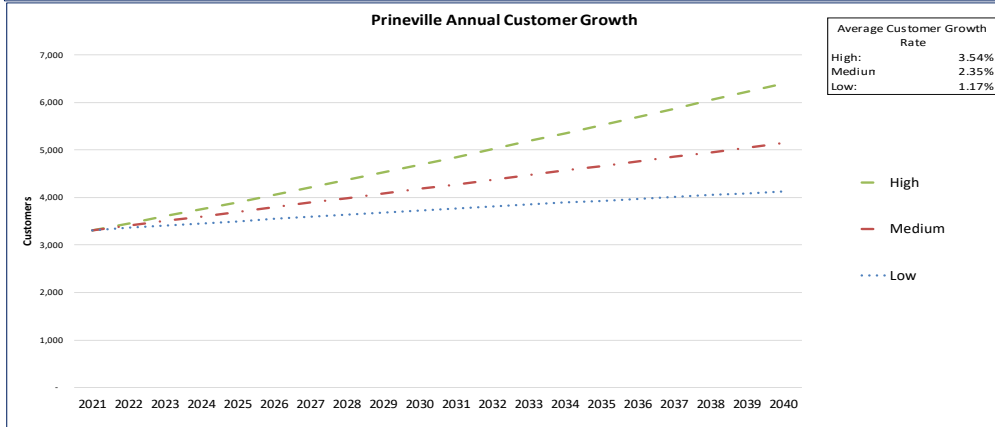
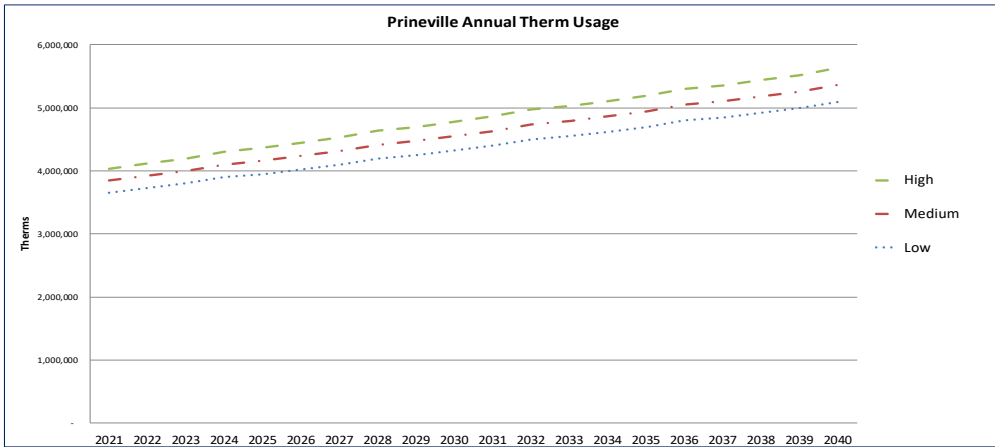


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Plymouth, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Annual Change, Therms Usage by Class, Annual Change, Customer Count Forecast, Annual Change. Columns include Heating, BaseLoad, Total, and various percentage change metrics.



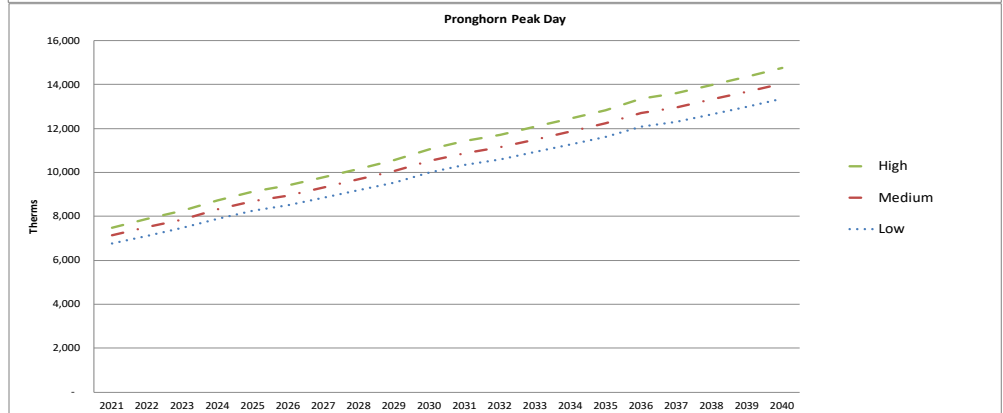
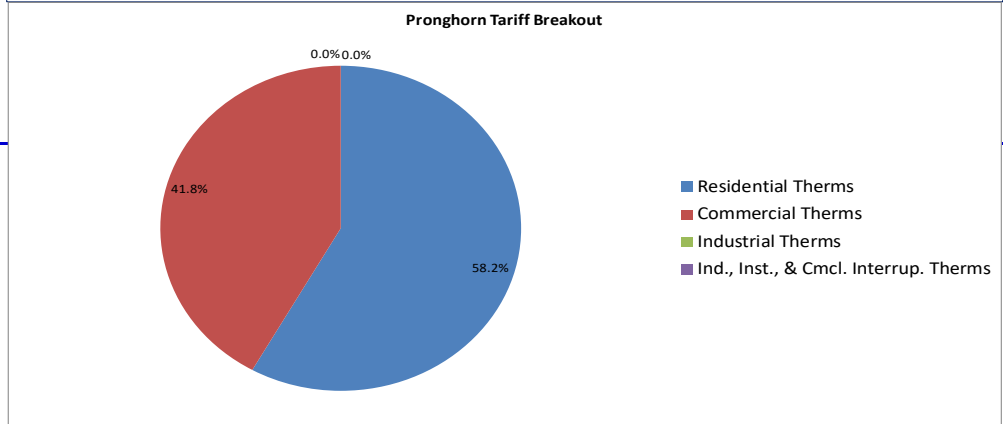
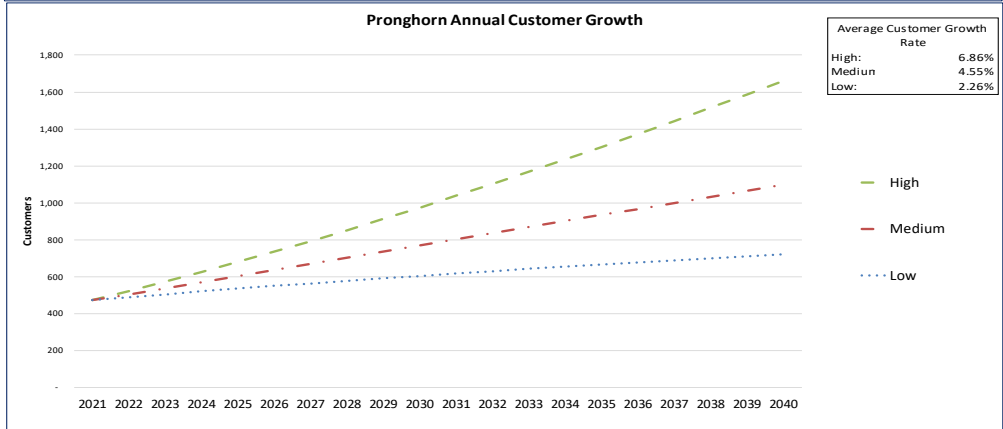
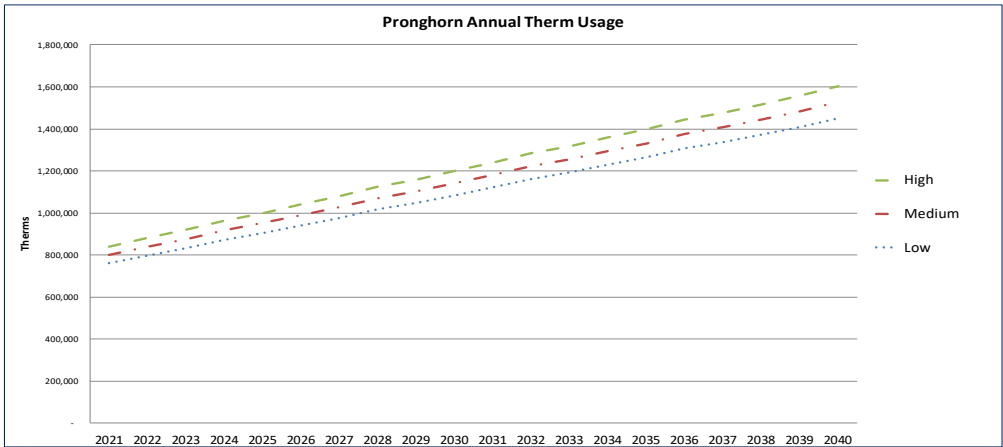




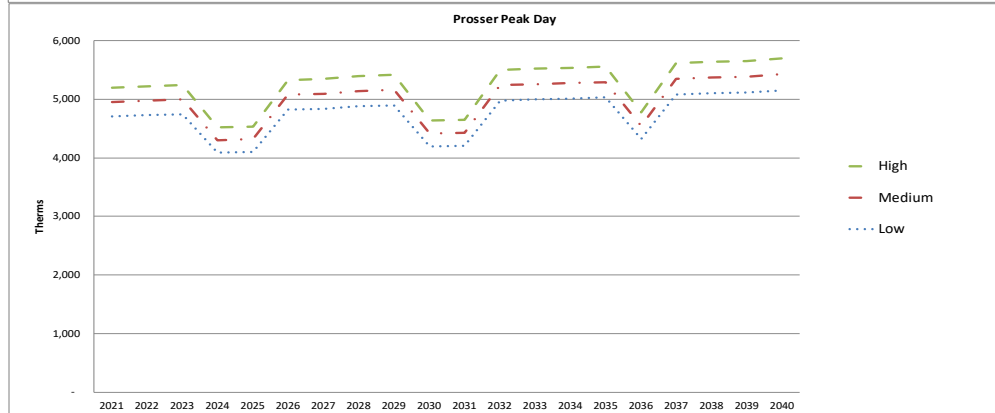
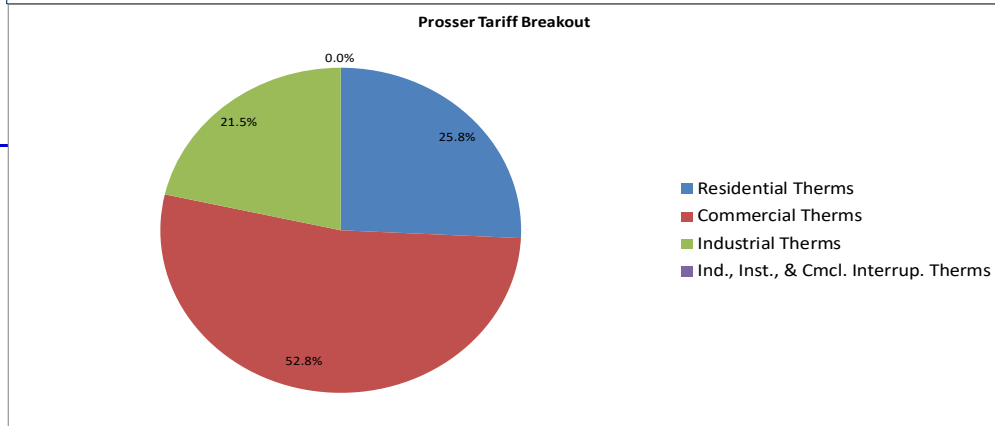
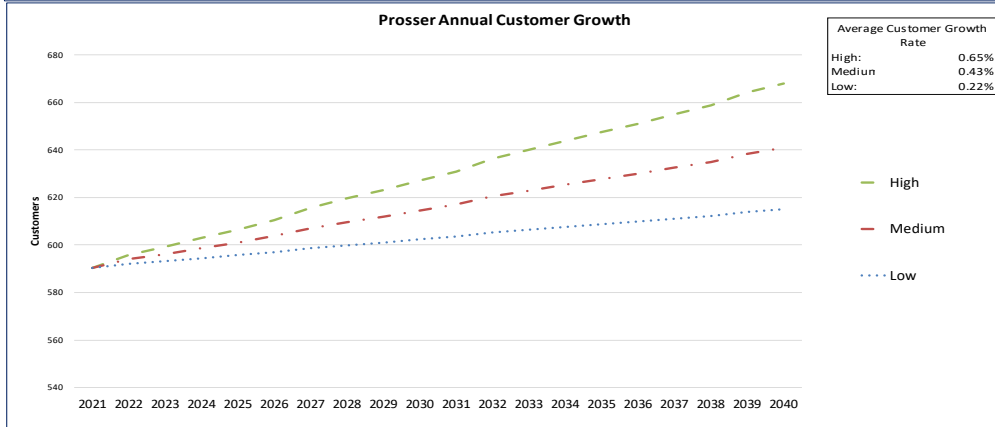
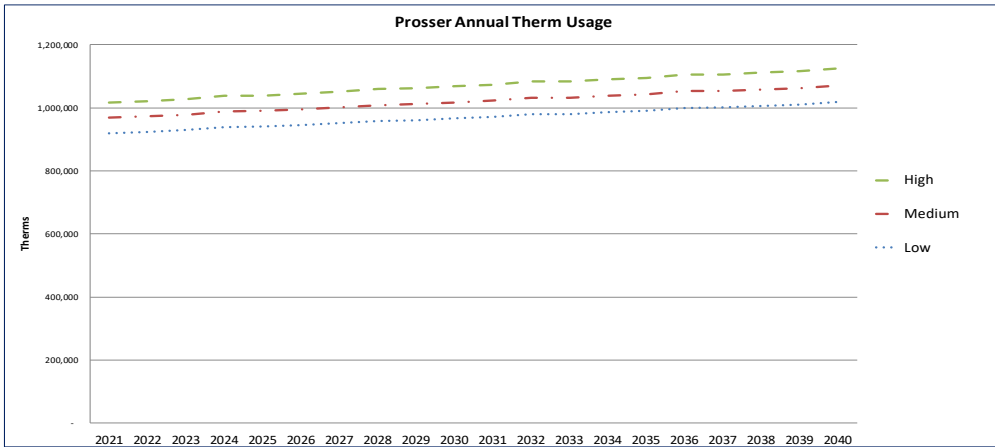


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

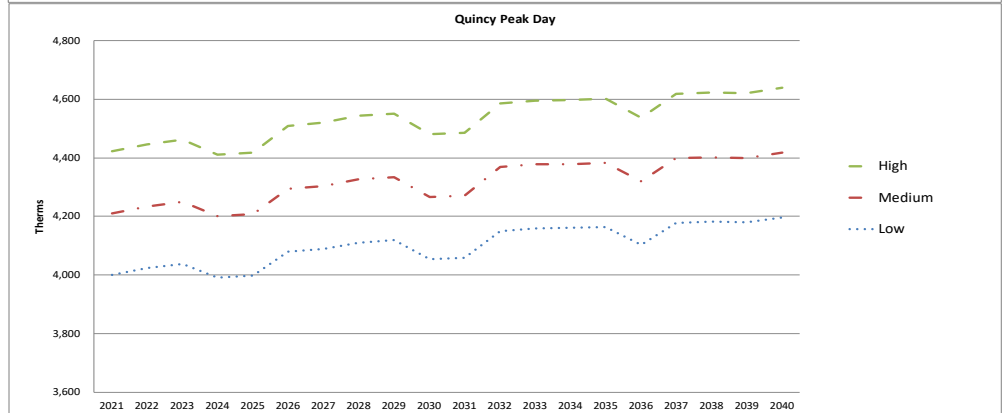
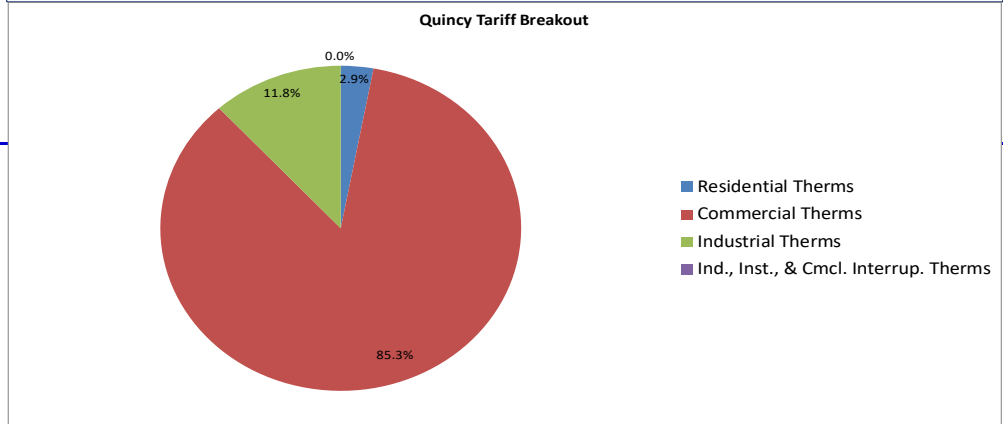
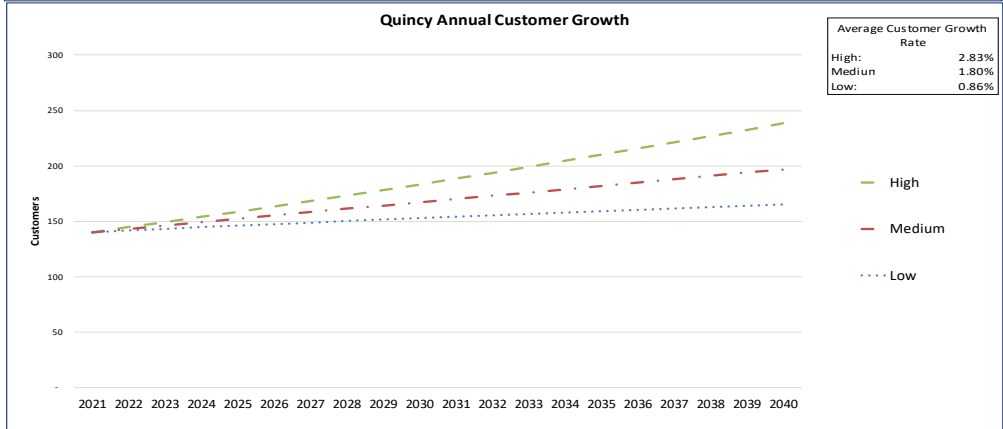
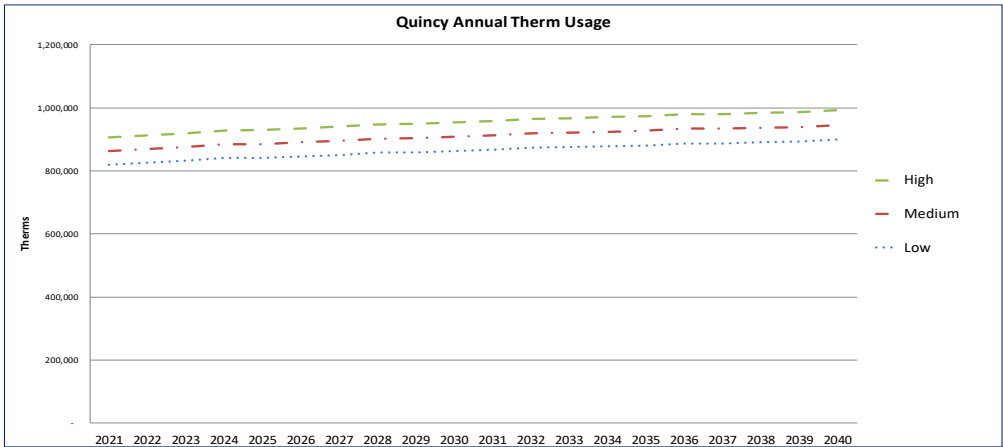
Table with multiple sections: Pronghorn, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Therms Usage by Class, and Customer Count Forecast. Each section contains detailed data for years 2021-2040 across various metrics like Heating, BaseLoad, Total, and Annual Change percentages.



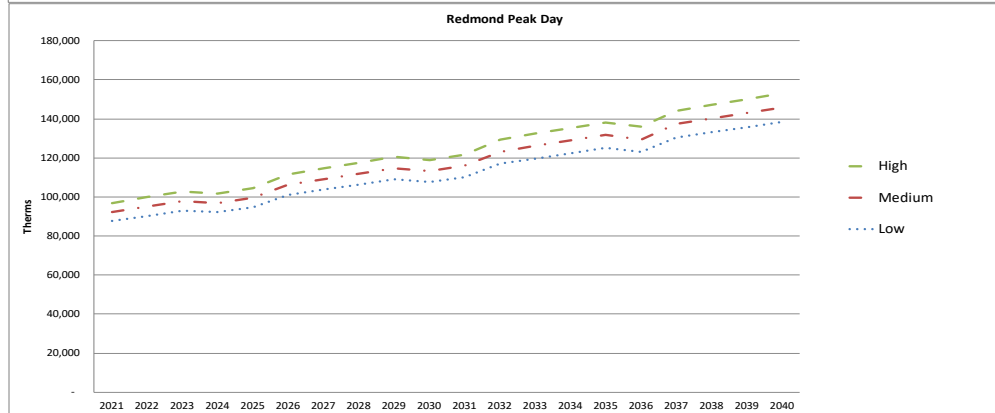
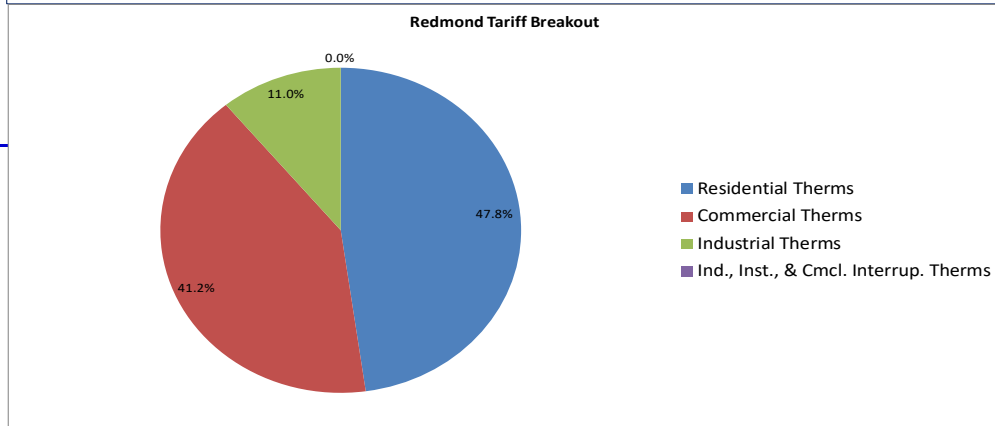
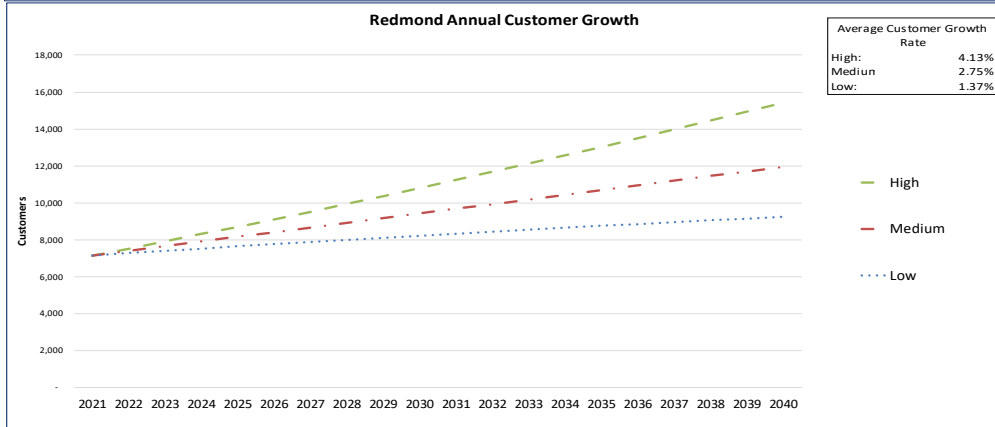
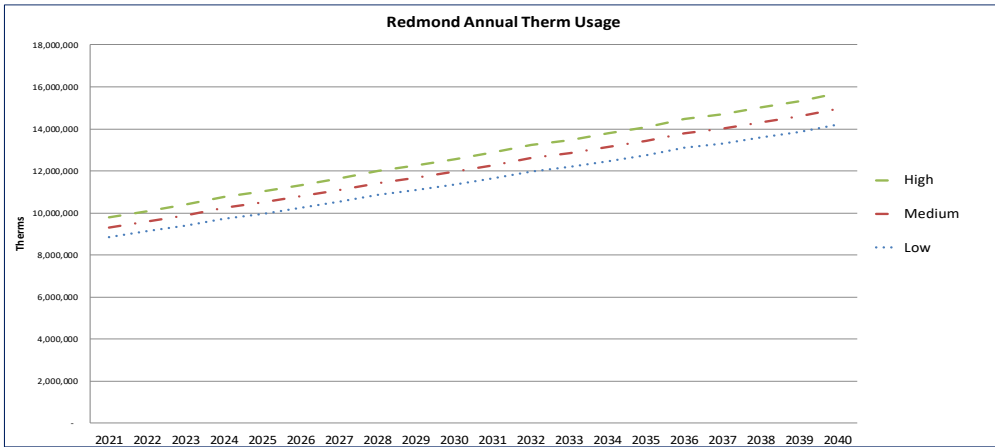






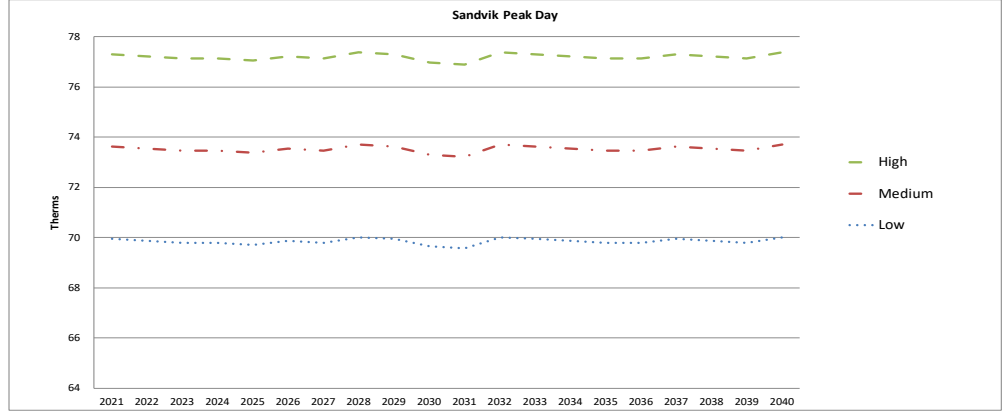
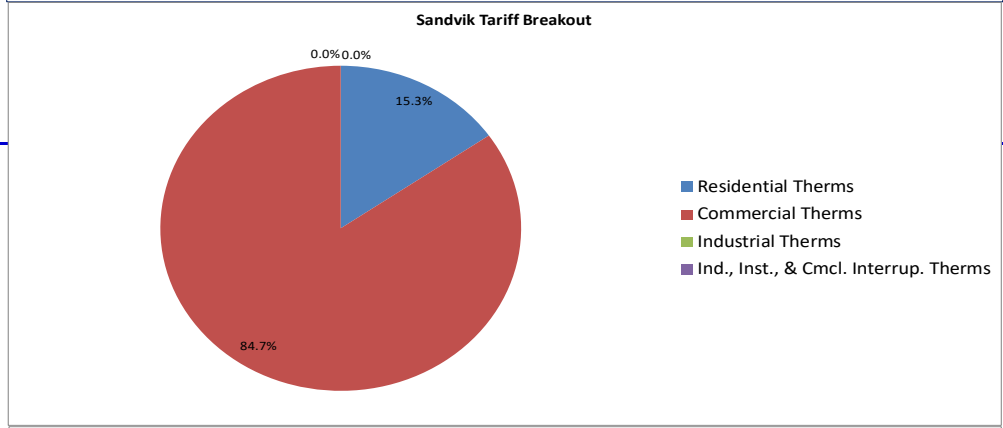
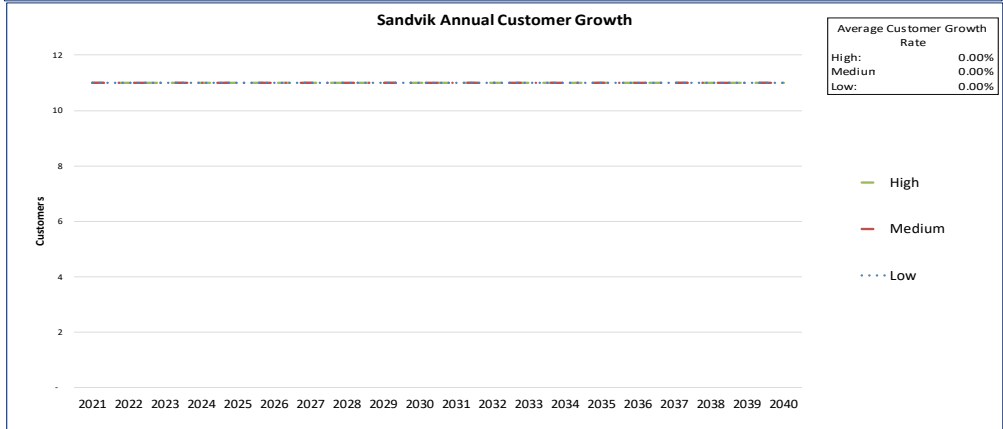
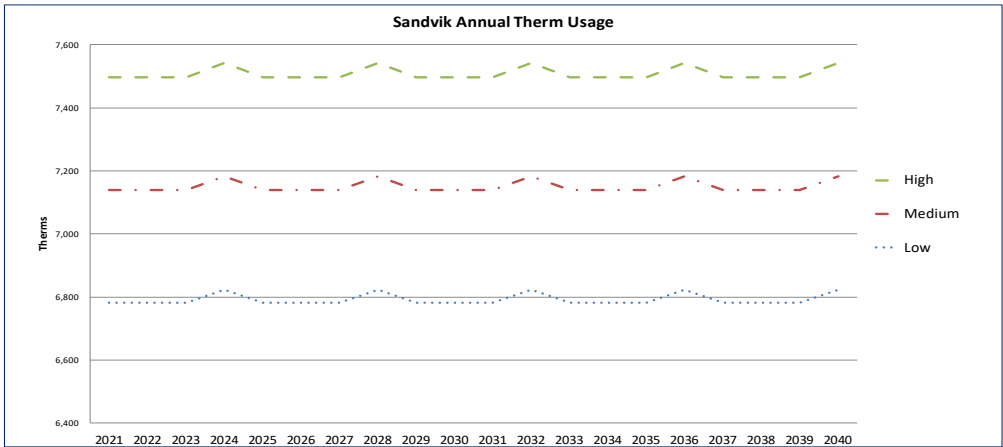












Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

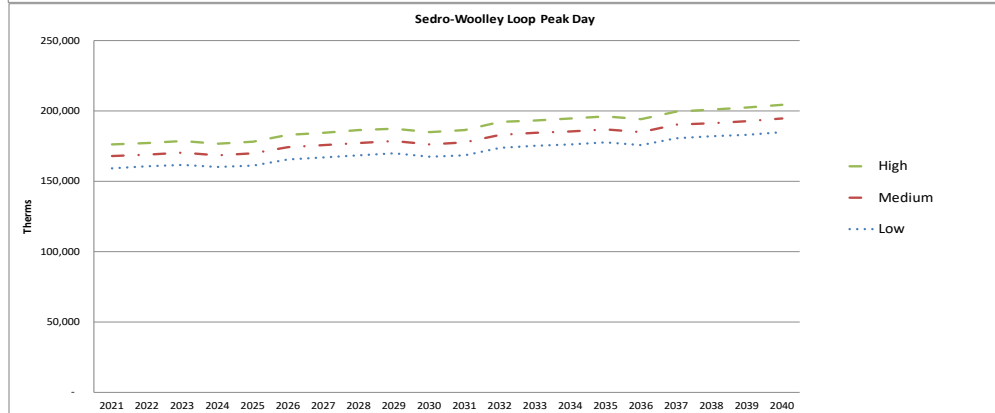
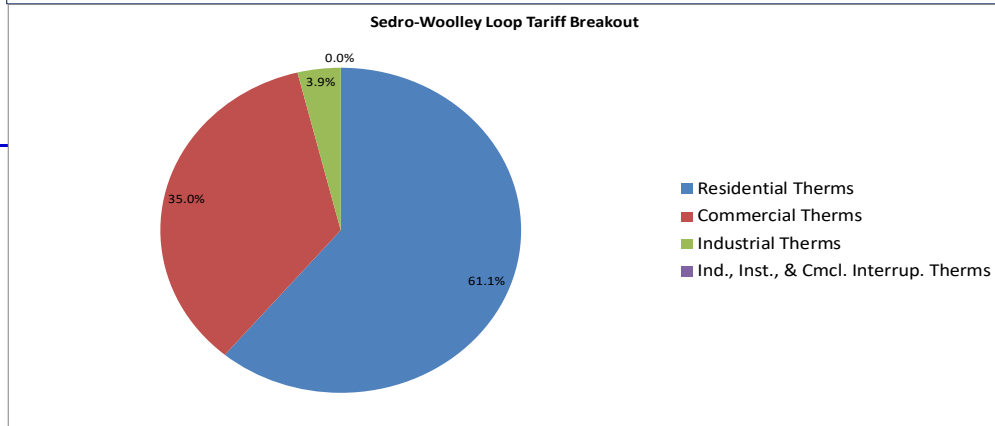
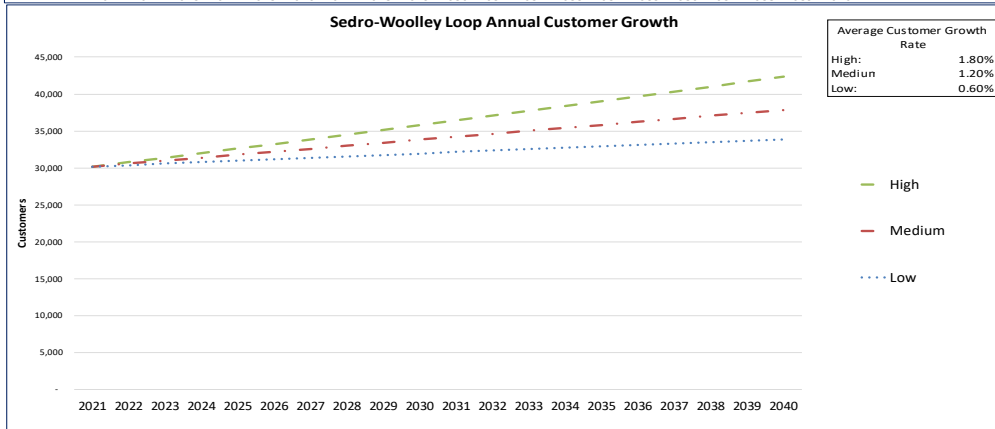
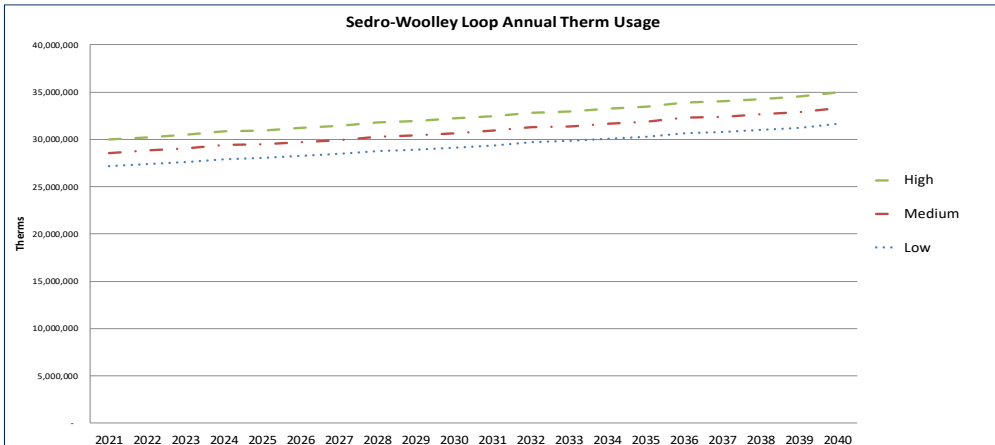
Sedro-Woolley Loop

Table with columns for Annual Requirements (Therms) and Annual Change. Rows include Heating, BaseLoad, and Total for Low, Medium, and High scenarios from 2021 to 2040.

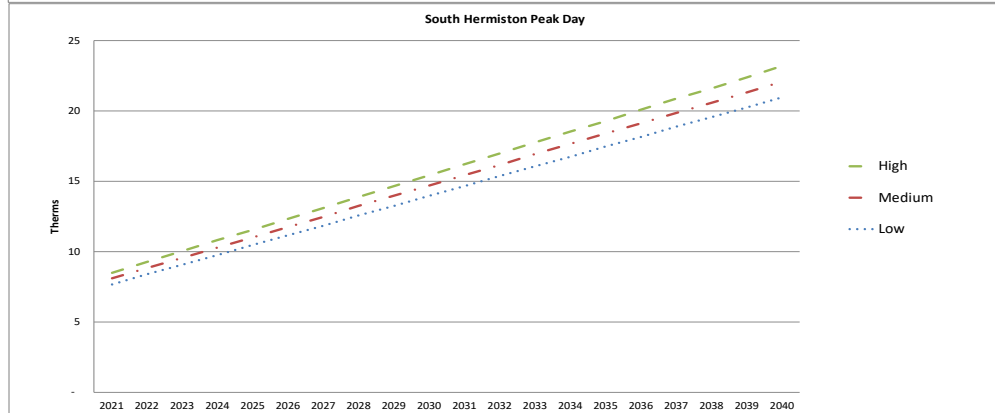
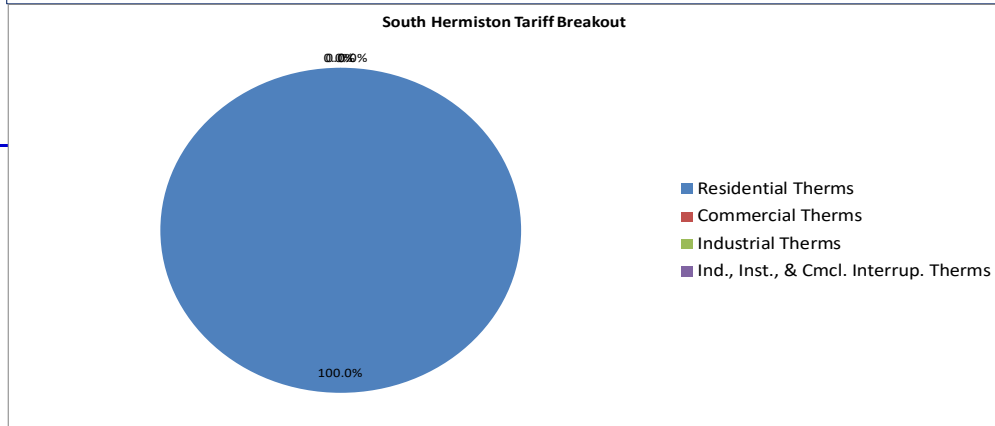
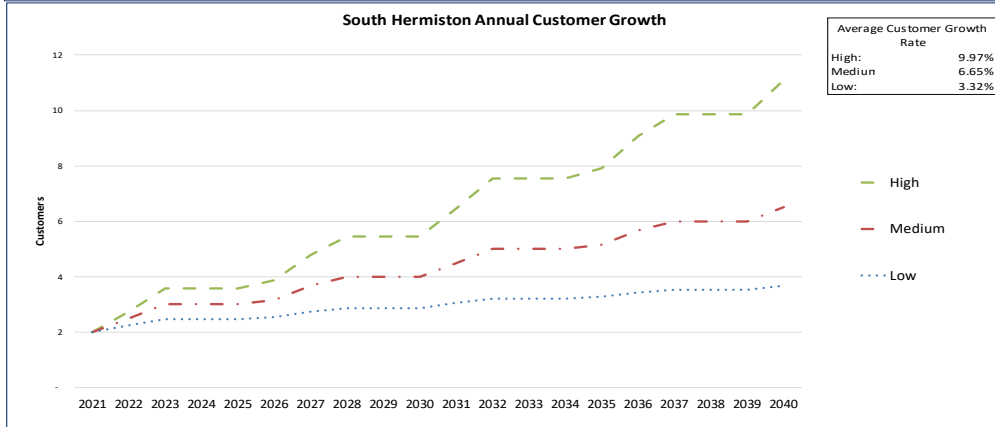
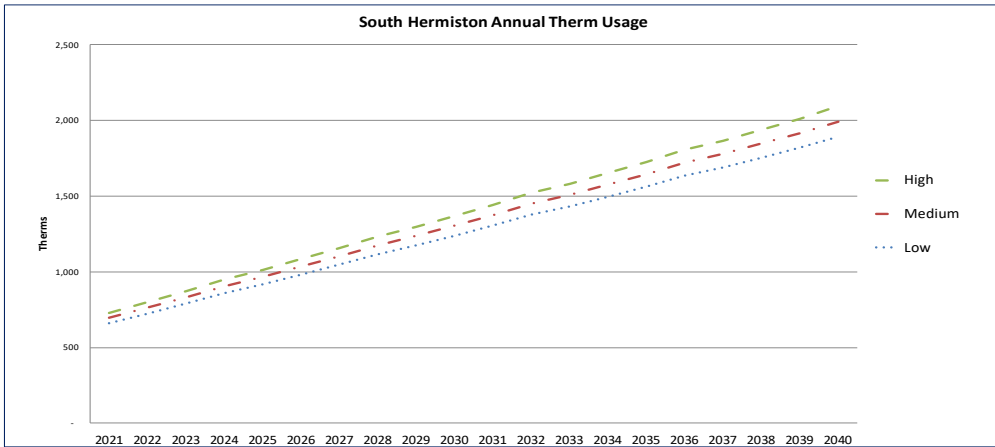
Table with columns for Peak Day - BaseLoad and Annual Change. Rows include Daily BaseLoad, Peak, and Total for Low, Medium, and High scenarios from 2021 to 2040.

Table with columns for Therms Usage by Class and Annual Change. Rows include Res, Com/Ind, and Total for Low, Medium, and High scenarios from 2021 to 2040.

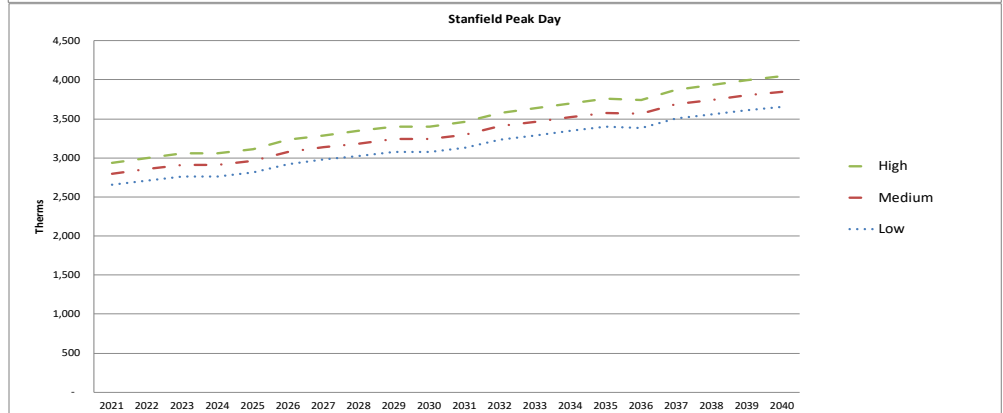
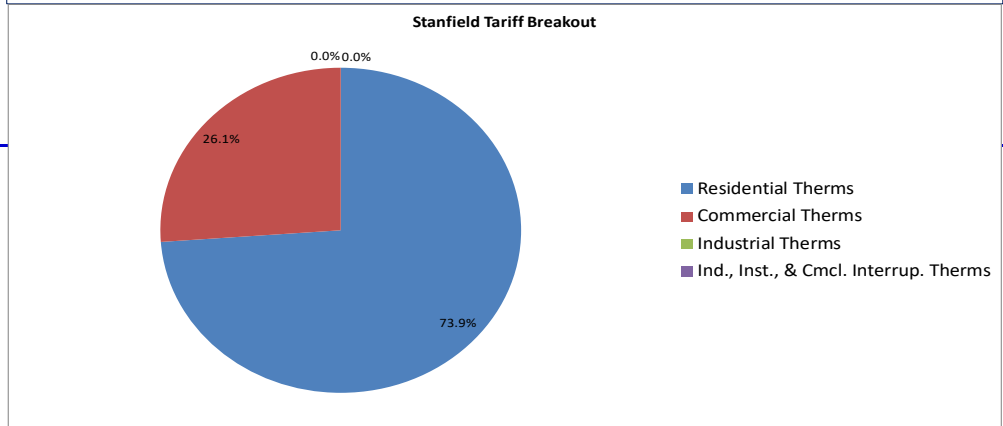
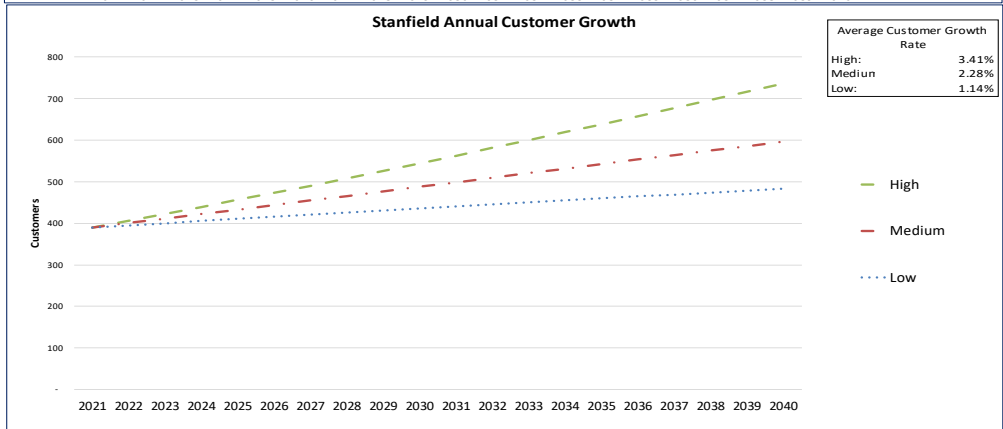
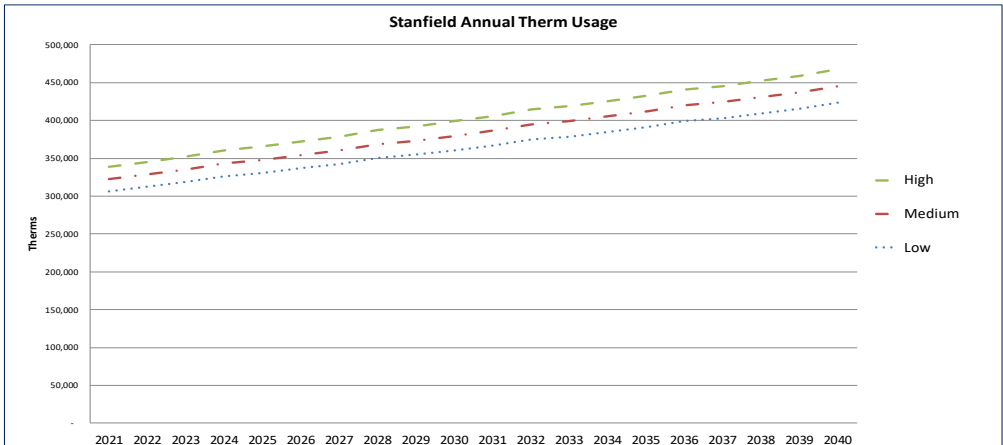
Table with columns for Customer Count Forecast and Annual Change. Rows include Res, Com/Ind, and Total for Low, Medium, and High scenarios from 2021 to 2040.













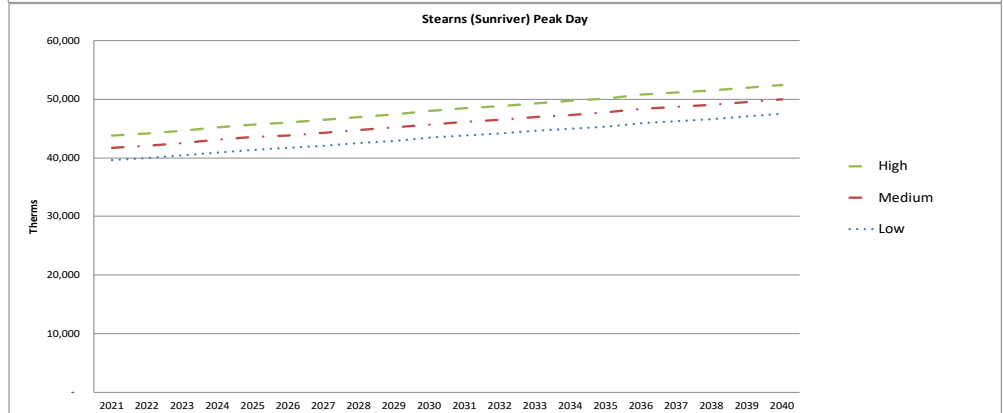
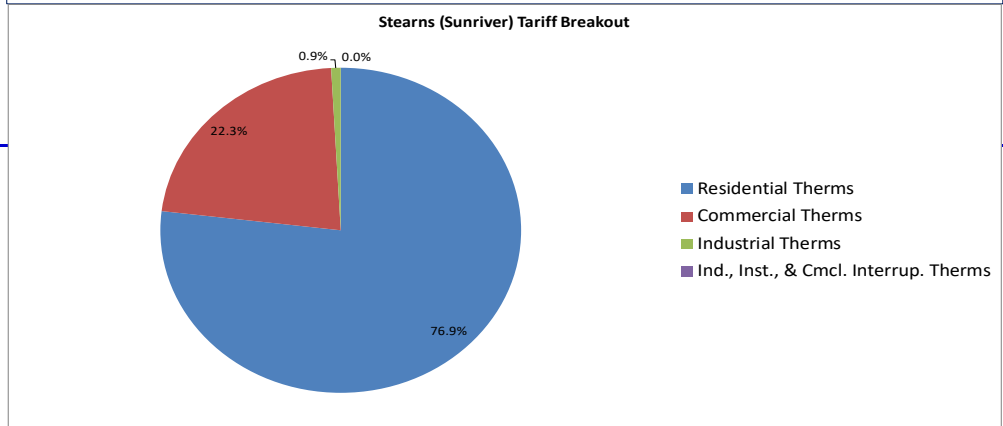
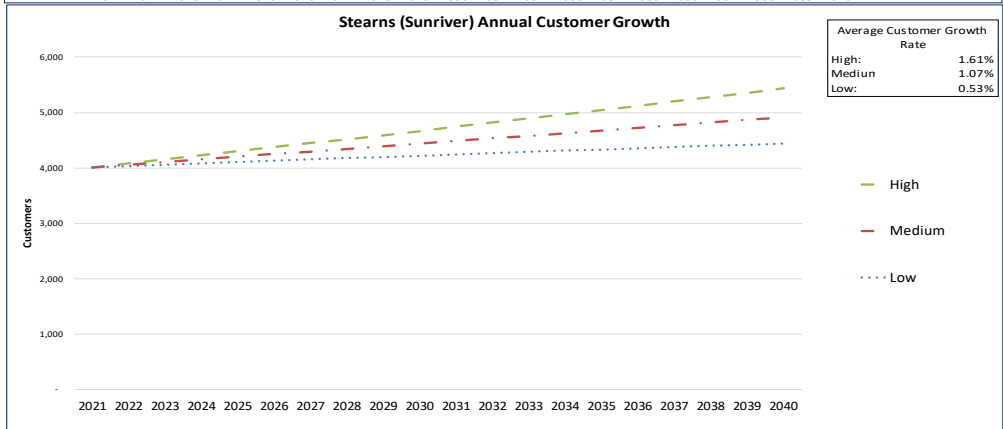
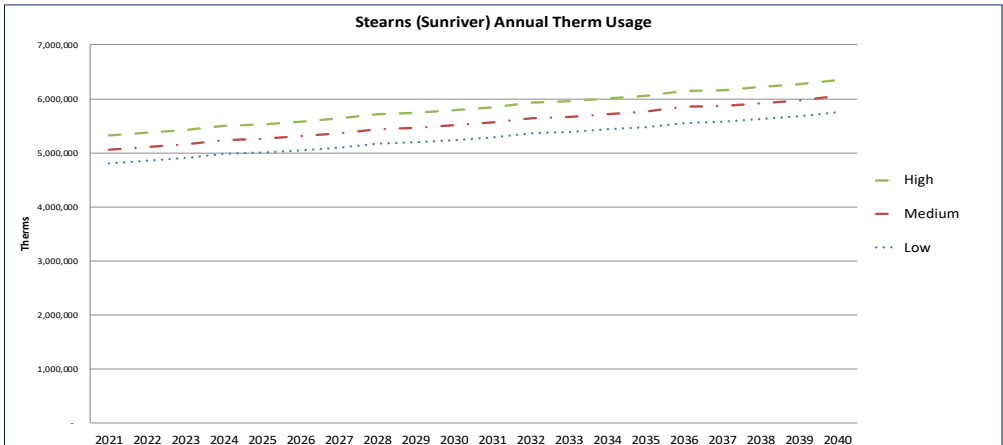
Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with columns: Stearns (Sunriver), Annual Requirements (Therms), Annual Change. Rows include Heating, BaseLoad, Total for Low, Medium, High categories across years 2021-2040.

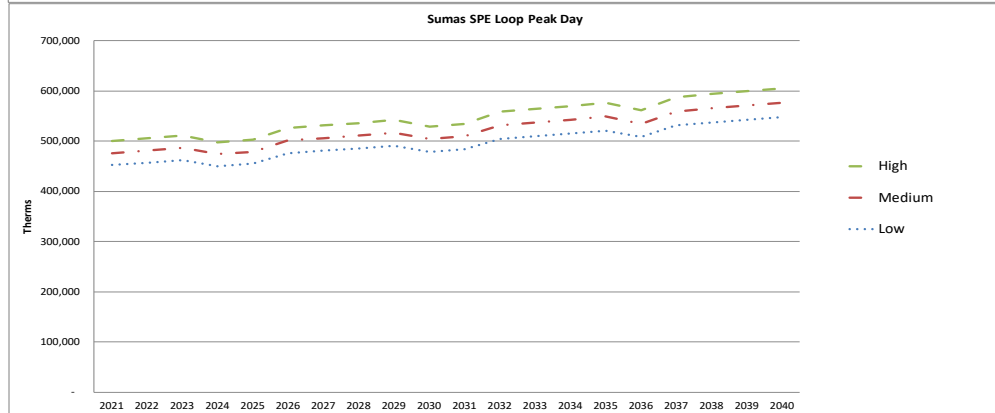
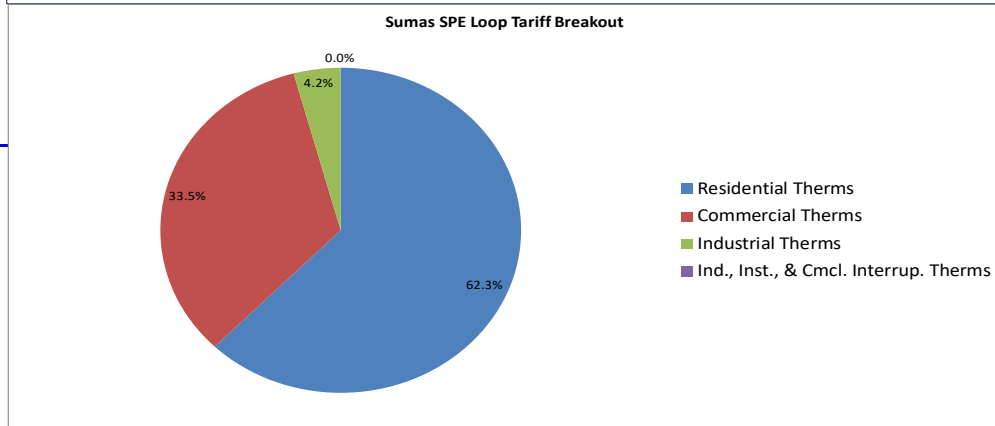
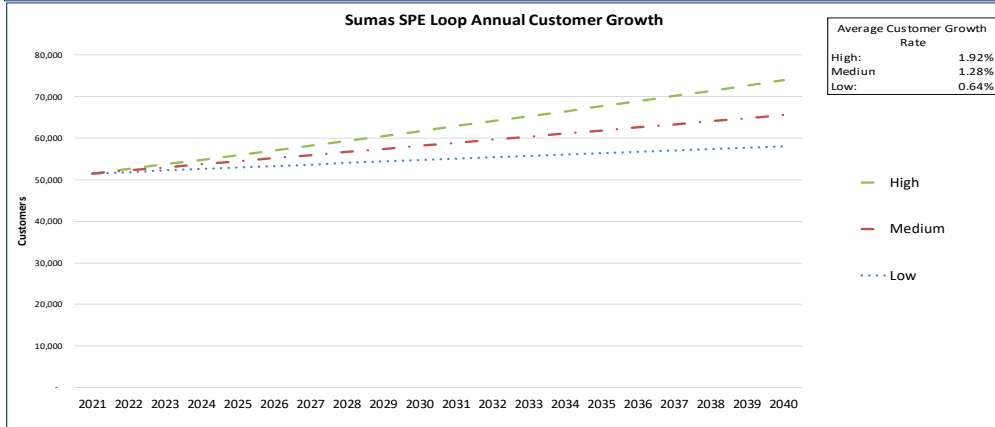
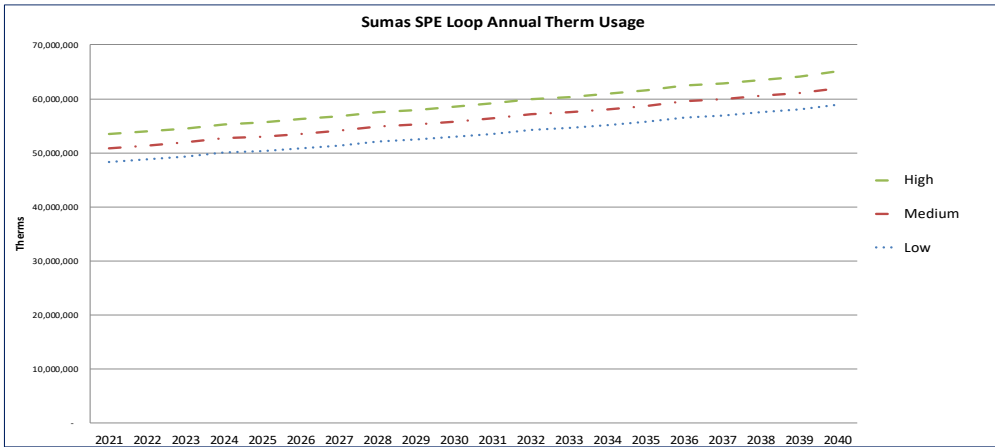
Table with columns: Peak Day - BaseLoad, Annual Change. Rows include Daily BaseLoad, Peak, Total for Low, Medium, High categories across years 2021-2040.

Table with columns: Therms Usage by Class, Annual Change. Rows include Res, Com/Ind, Total for Low, Medium, High categories across years 2021-2040.

Table with columns: Customer Count Forecast, Annual Change. Rows include Res, Com/Ind, Total for Low, Medium, High categories across years 2021-2040.







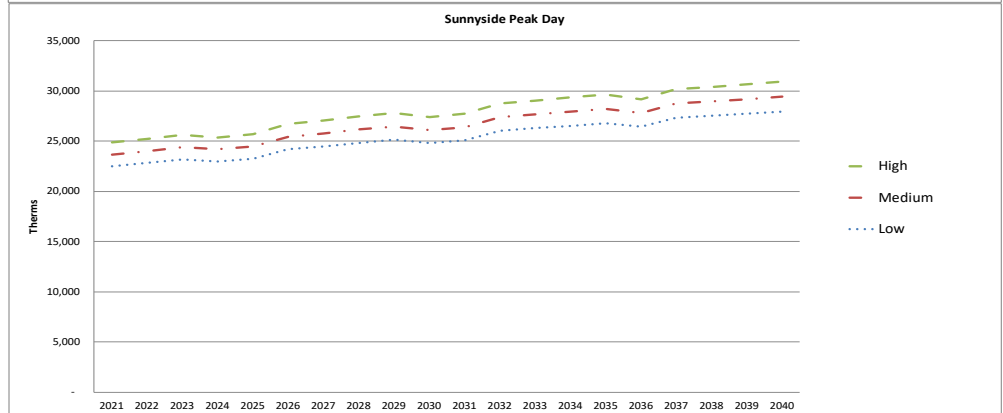
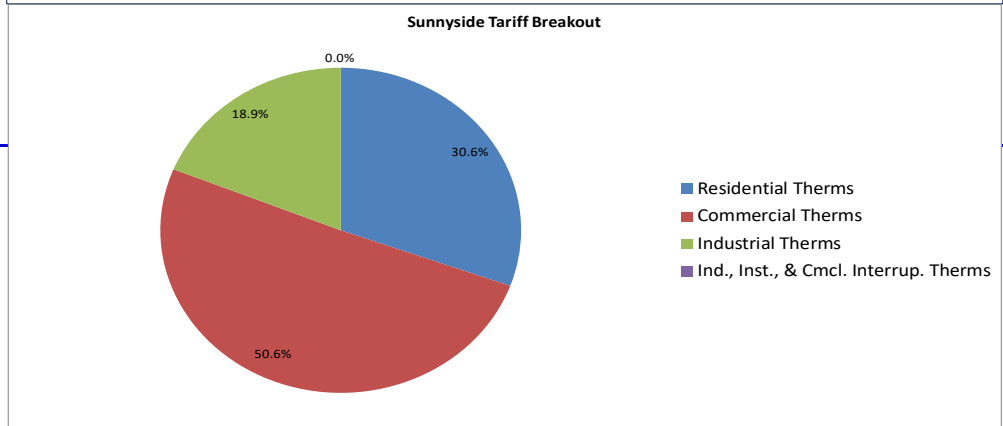
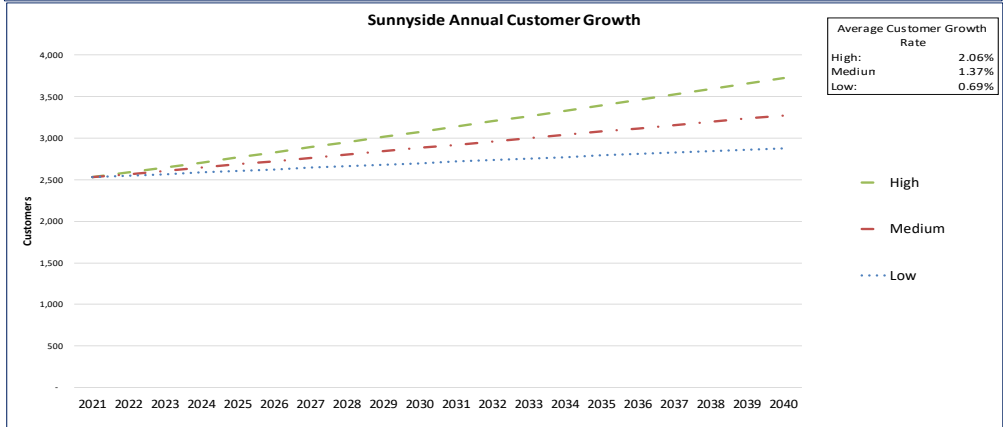
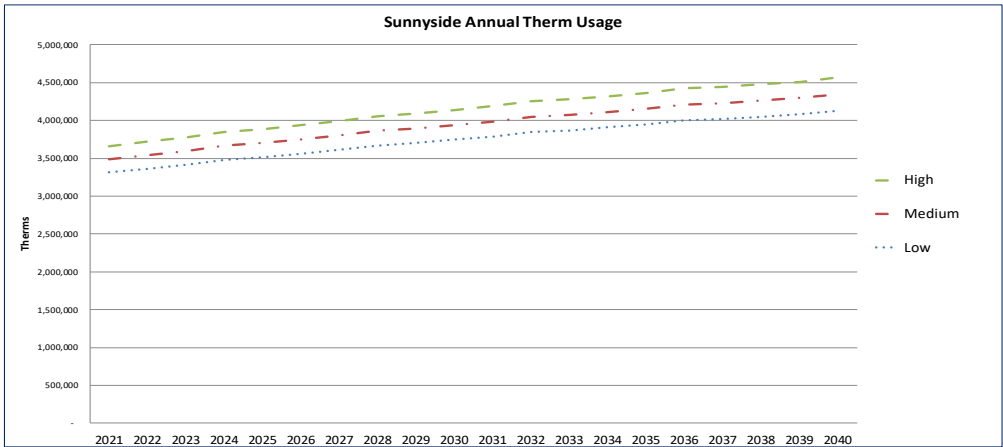
Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

Sunnyside Annual Requirements (Therms) table with columns for Heating, BaseLoad, Total and sub-categories for Low, Medium, High. Includes annual change percentages.

Peak Day - BaseLoad table with columns for Daily BaseLoad, Peak, Total and sub-categories for Low, Medium, High. Includes annual change percentages.

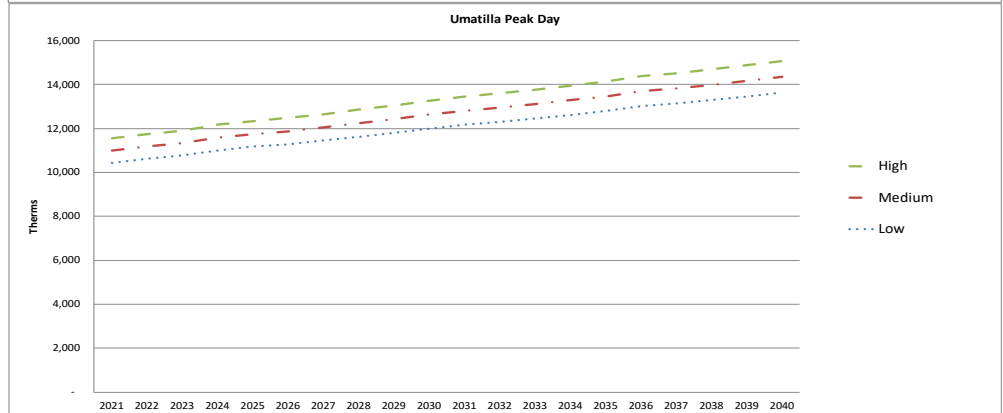
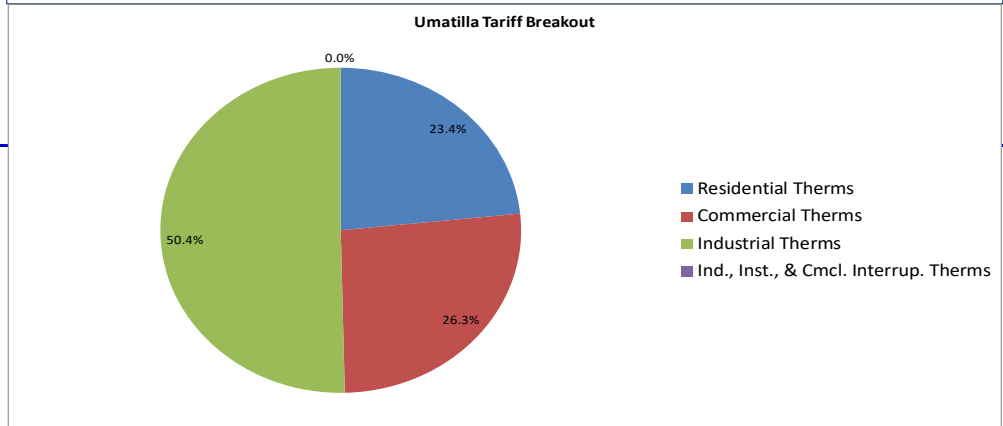
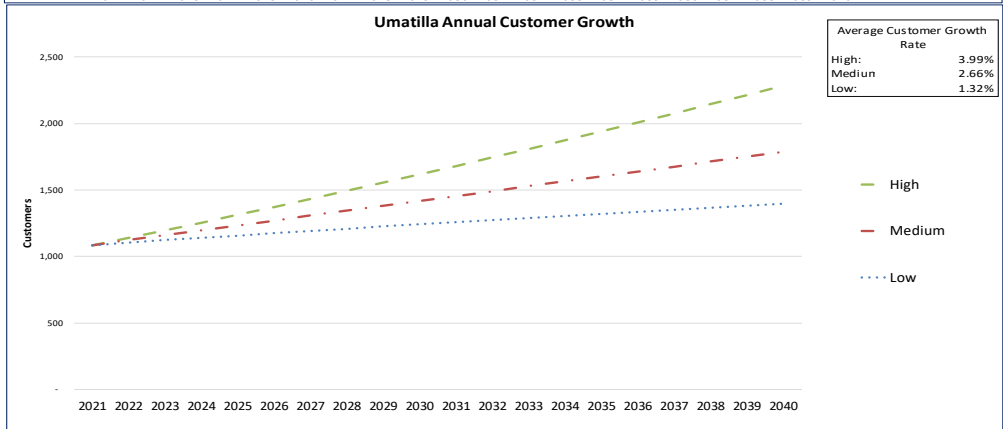
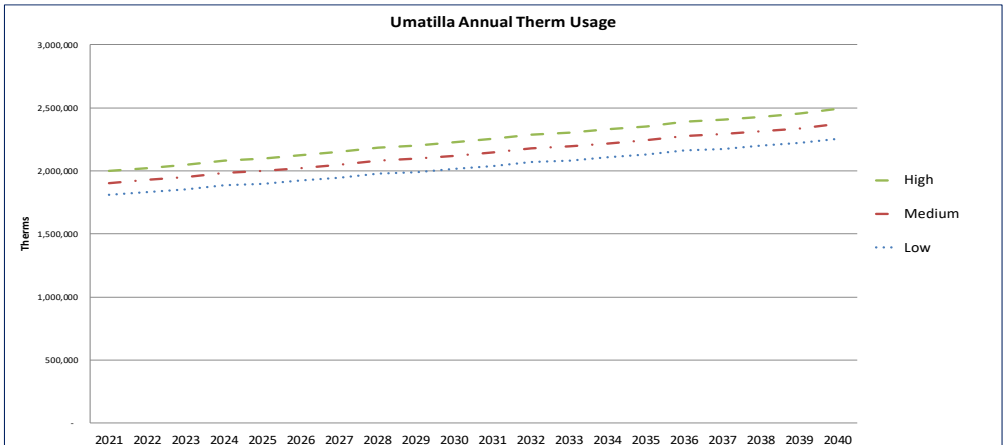
Therms Usage by Class table with columns for Res, Com/Ind, Total and sub-categories for Low, Medium, High. Includes annual change percentages.

Customer Count Forecast table with columns for Res, Com/Ind, Total and sub-categories for Low, Medium, High. Includes annual change percentages.



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Umatilla Annual Requirements (Therms) and Annual Change tables. Includes columns for Heating, BaseLoad, Total and Annual Change percentages for Low, Medium, and High scenarios from 2021 to 2040.





Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Walla Walla														
Annual Requirements (Therms)														
Low			Medium			High			Annual Change					
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	9,035,028	3,869,929	12,904,956	9,510,555	4,073,609	13,584,164	9,986,083	4,277,289	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%
2022	9,175,350	3,894,055	13,069,404	9,658,262	4,099,005	13,757,268	10,141,176	4,303,956	14,445,131	1.55%	0.62%	1.27%	1.55%	0.62%
2023	9,283,802	3,934,398	13,218,200	9,772,423	4,141,471	13,913,894	10,261,044	4,348,545	14,609,589	1.18%	1.04%	1.14%	1.18%	1.04%
2024	9,419,571	4,007,918	13,427,490	9,915,339	4,218,861	14,134,200	10,411,106	4,429,804	14,840,910	1.46%	1.87%	1.58%	1.46%	1.87%
2025	9,461,753	4,052,442	13,514,195	9,959,599	4,265,728	14,225,469	10,457,728	4,479,014	14,936,742	0.45%	1.11%	0.65%	0.45%	1.11%
2026	9,565,366	4,097,564	13,662,931	10,068,806	4,313,226	14,382,032	10,572,247	4,528,887	15,101,134	1.10%	1.11%	1.10%	1.10%	1.11%
2027	9,691,567	4,114,049	13,805,616	10,201,560	4,330,578	14,532,227	10,711,732	4,547,107	15,258,838	1.32%	1.40%	1.04%	1.32%	1.40%
2028	9,874,195	4,126,572	14,000,767	10,393,890	4,343,759	14,737,649	10,913,584	4,560,948	15,474,532	1.88%	1.30%	1.41%	1.88%	1.30%
2029	9,896,433	4,182,407	14,078,840	10,417,298	4,402,534	14,819,832	10,938,163	4,622,661	15,560,824	0.23%	1.35%	0.23%	1.35%	0.23%
2030	9,973,312	4,237,771	14,211,082	10,498,224	4,460,811	14,959,034	11,023,135	4,683,852	15,706,986	0.78%	1.32%	0.94%	0.78%	1.32%
2031	10,061,286	4,277,231	14,338,517	10,590,828	4,502,349	15,093,176	11,120,369	4,727,466	15,847,835	0.88%	0.93%	0.90%	0.88%	0.93%
2032	10,235,282	4,288,471	14,523,753	10,773,981	4,514,179	15,288,161	11,312,680	4,739,889	16,052,569	1.73%	0.26%	1.29%	1.73%	0.26%
2033	10,276,308	4,296,287	14,572,595	10,817,166	4,522,408	15,339,573	11,358,024	4,748,528	16,106,552	0.40%	0.18%	0.34%	0.40%	0.18%
2034	10,354,975	4,325,729	14,680,704	10,899,974	4,553,399	15,453,372	11,444,972	4,781,069	16,226,041	0.77%	0.69%	0.74%	0.77%	0.69%
2035	10,413,679	4,374,618	14,788,297	10,961,767	4,604,862	15,566,629	11,509,856	4,835,104	16,344,960	0.57%	1.13%	0.73%	0.57%	1.13%
2036	10,529,753	4,424,666	14,954,419	11,083,950	4,657,544	15,741,493	11,638,147	4,890,421	16,528,568	1.11%	1.14%	1.11%	1.14%	1.11%
2037	10,528,314	4,455,474	14,983,788	11,082,436	4,689,972	15,772,408	11,636,558	4,924,470	16,561,028	-0.01%	0.70%	0.20%	-0.01%	0.70%
2038	10,619,720	4,455,866	15,075,587	11,178,654	4,690,385	15,869,039	11,737,586	4,924,905	16,662,490	0.87%	0.01%	0.61%	0.87%	0.01%
2039	10,705,106	4,454,361	15,159,467	11,268,534	4,688,800	15,957,334	11,831,960	4,923,240	16,755,201	0.80%	-0.03%	0.56%	0.80%	-0.03%
2040	10,814,137	4,495,724	15,309,862	11,383,303	4,732,341	16,115,644	11,952,468	4,968,958	16,921,426	1.02%	0.93%	0.99%	1.02%	0.93%

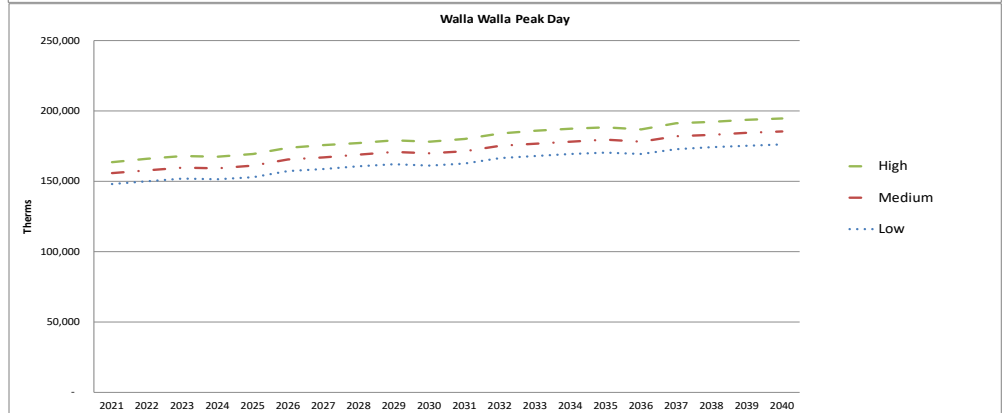
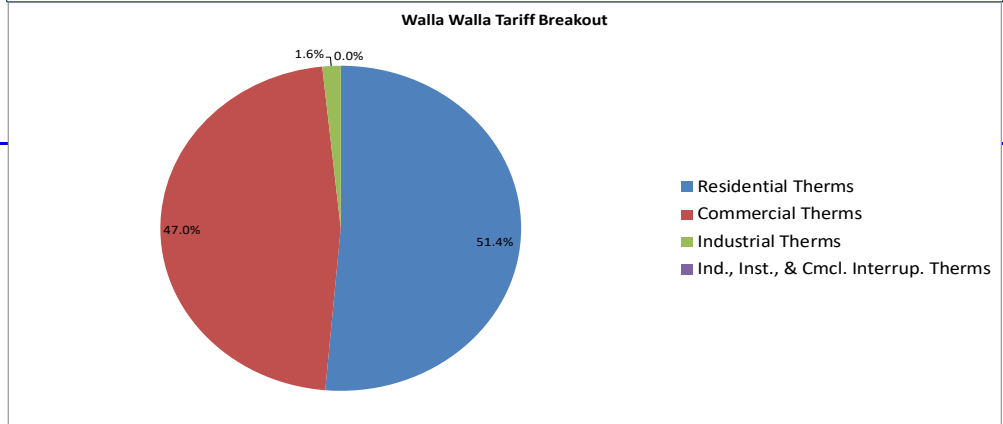
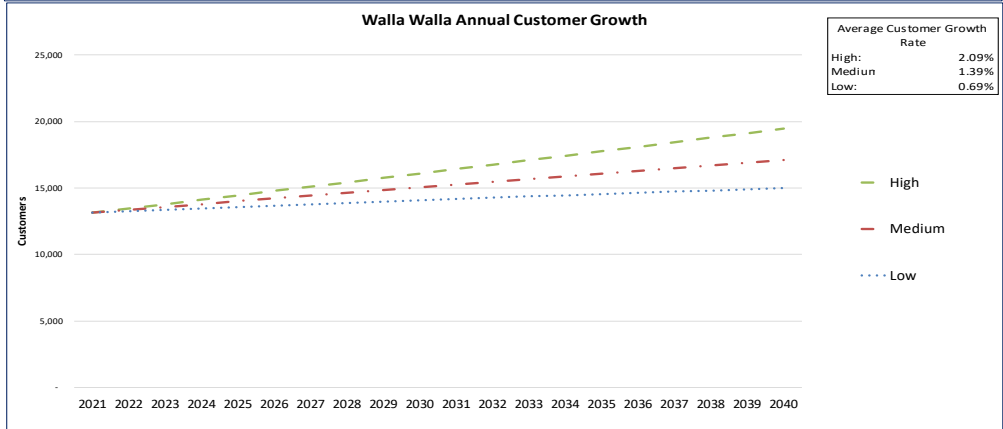
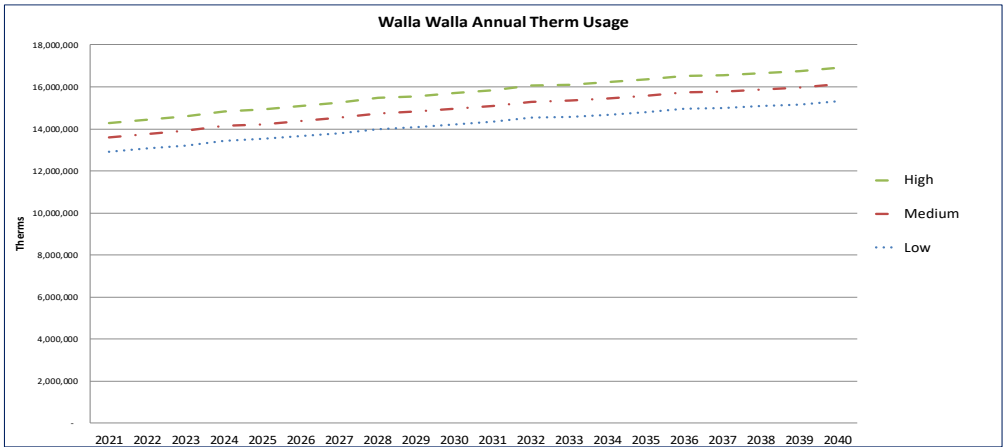
Peak Day - BaseLoad														
Low			Medium			High			Annual Change					
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	10,603	137,469	148,072	11,161	144,704	155,865	11,719	151,940	163,658	0.00%	0.00%	0.00%	0.00%	0.00%
2022	10,669	139,404	150,073	11,230	146,741	157,971	11,792	154,078	165,870	0.62%	1.41%	1.35%	0.62%	1.41%
2023	10,769	141,083	151,862	11,346	148,509	159,855	11,914	155,934	167,848	1.04%	1.20%	1.19%	1.04%	1.20%
2024	10,981	140,370	151,350	11,559	147,757	159,316	12,136	155,145	167,282	1.87%	-0.51%	-0.34%	1.87%	-0.51%
2025	11,103	141,896	152,009	11,687	149,459	161,146	12,271	156,233	168,203	1.11%	1.15%	1.15%	1.15%	1.15%
2026	11,226	145,920	157,146	11,817	153,600	165,417	12,408	161,280	173,688	1.11%	2.77%	2.65%	1.11%	2.77%
2027	11,271	147,591	158,862	11,865	155,359	167,224	12,458	163,127	175,585	0.40%	1.15%	1.09%	0.40%	1.15%
2028	11,306	149,172	160,477	11,901	157,023	168,923	12,496	164,874	177,370	0.30%	1.07%	1.02%	0.30%	1.07%
2029	11,459	150,654	162,112	12,062	158,583	170,644	12,665	166,512	179,177	1.35%	0.99%	1.02%	1.35%	0.99%
2030	11,610	149,710	161,321	12,221	157,590	169,811	12,832	165,469	178,302	1.32%	-0.63%	-0.49%	1.32%	-0.63%
2031	11,718	151,115	162,834	12,335	159,669	171,404	12,952	167,022	179,974	0.93%	0.94%	0.94%	0.94%	0.94%
2032	11,749	154,902	166,652	12,368	163,055	175,423	12,986	171,208	184,194	0.26%	2.51%	2.34%	0.26%	2.51%
2033	11,711	156,729	168,050	12,390	164,505	176,895	13,010	172,730	185,740	0.18%	0.89%	0.84%	0.18%	0.89%
2034	11,851	157,503	169,354	12,475	165,792	178,267	13,099	174,082	187,181	0.69%	0.88%	0.78%	0.69%	0.78%
2035	11,985	158,637	170,622	12,616	166,986	179,602	13,247	175,335	188,582	1.13%	0.72%	0.75%	1.13%	0.72%
2036	12,122	157,167	169,290	12,760	165,439	178,200	13,398	173,711	187,110	1.14%	-0.93%	-0.78%	1.14%	-0.93%
2037	12,207	160,738	172,944	12,849	169,197	182,047	13,492	177,657	191,149	0.70%	2.27%	2.16%	0.70%	2.27%
2038	12,208	161,845	174,053	12,850	170,364	183,214	13,493	178,882	192,375	0.01%	0.69%	0.64%	0.01%	0.69%
2039	12,204	162,894	175,097	12,846	171,467	184,313	13,488	180,040	193,529	-0.03%	0.65%	0.60%	-0.03%	0.65%
2040	12,317	163,736	176,054	12,965	172,354	185,319	13,614	180,972	194,585	0.93%	0.52%	0.55%	0.93%	0.52%

Therms Usage by Class														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	6,650,238	6,254,718	12,904,956	7,000,250	6,583,913	13,584,164	7,350,263	6,913,109	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,748,586	6,320,819	13,069,404	7,103,774	6,653,494	13,757,268	7,458,963	6,986,168	14,445,131	1.48%	1.06%	1.27%	1.48%	1.06%
2023	6,837,885	6,380,315	13,218,200	7,197,773	6,716,121	13,913,894	7,557,662	7,051,927	14,609,589	1.32%	0.94%	1.14%	1.32%	0.94%
2024	6,959,544	6,467,945	13,427,490	7,325,836	6,808,364	14,134,200	7,692,128	7,148,782	14,840,910	1.78%	1.37%	1.58%	1.78%	1.37%
2025	7,015,378	6,498,817	13,514,195	7,384,609	6,840,860	14,225,469	7,753,839	7,182,903	14,936,742	0.80%	0.48%	0.65%	0.80%	0.48%
2026	7,104,680	6,538,251	13,662,931	7,478,611	6,903,422	14,382,032	7,852,541	7,248,599	15,101,134	1.27%	0.91%	1.17%	1.27%	0.91%
2027	7,190,522	6,615,094	13,805,616	7,568,970	6,963,257	14,532,227	7,947,419	7,311,420	15,258,838	1.21%	0.87%	1.04%	1.21%	0.87%
2028	7,304,694	6,696,073	14,000,767	7,689,151	7,048,497	14,737,649	8,073,609	7,400,922	15,474,532	1.59%	1.22%	1.41%	1.59%	1.22%
2029	7,355,195	6,723,645	14,078,840	7,742,311	7,077,521	14,819,832	8,129,427	7,431,397	15,560,824	0.69%	0.41%	0.56%	0.69%	0.41%
2030	7,435,071	6,776,012	14,211,082	7,826,390	7,132,644	14,959,034	8,217,710	7,484,276	15,706,986	1.09%	0.78%	0.94%	1.09%	0.78%
2031	7,512,200	6,826,317	14,338,517	7,907,579	7,185,597	15,093,176	8,302,958	7,548,877	15,847,835	1.04%	0.74%	0.90%	1.04%	0.74%
2032	7,620,511	6,903,242	14,523,753	8,021,590	7,266,571	15,288,161	8,422,670	7,629,900	16,052,569	1.44%	1.13%	1.29%	1.44%	1.13%
2033	7,654,637	6,917,958	14,572,595	8,057,512	7,282,061	15,339,573	8,460,388	7,646,164	16,106,552	0.45%	0.21%	0.34%	0.45%	0.21%
2034	7,720,674	6,960,029	14,680,704	8,127,026	7,326,346	15,453,372	8,533,777	7,692,664	16,226,041	0.86%	0.61%	0.74%	0.86%	0.61%
2035	7,786,295	7,002,002	14,788,297	8,196,100	7,370,528	15,566,629	8,605,905	7,739,055	16,344,960	0.85%	0.60%	0.73%	0.85%	0.60%
2036	7,883,771	7,070,648	14,954,419	8,298,706	7,442,787	15,741,493	8,713,617	7,814,927	16,528,568	1.25%	0.98%	1.12%	1.25%	0.98%
2037	7,906,483	7,077,305	14,983,788	8,322,614	7,449,794	15,772,408	8,738,745	7,822,284	16,561,028	0.29%	0.09%	0.29%	0.09%	0.29%
2038	7,963,218	7,112,368	15,075,587	8,382,335	7,486,704	15,869,039	8,801,452	7,881,039	16,662,490	0.72%	0.50%	0.61%	0.72%	0.50%
2039	8,015,556	7,149,911	15,159,467	8,437,428	7,519,906	15,957,334	8,859,299	7,895,901	16,755,201	0.66%	0.44%	0.56%	0.66%	0.44%
2040	8,104,140	7,205,722	15,309,862	8,530,673	7,584,970	16,115,644	8,957,207	7,964,219	16,921,426	1.11%	0.87%	0.99%	1.11%	0.87%

Customer Count Forecast														
Low			Medium			High			Annual Change					
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	11,804	1,347	13,151	11,804	1,347	13,151	11,804	1,347	13,151	0.00%	0.00%	0.00%	0.00%	0.00%
2022	11,902	1,357	13,259	11,999	1,368	13,367	12,097	1,378	13,475	0.83%	0.75%	0.82%	1.66%	1.50%
2023	11,997	1,367	13,364	12,192	1,388	13,580	12,388	1,408	13,796	0.80%	0.74%	0.80%	1.60%	1.48%
2024														



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

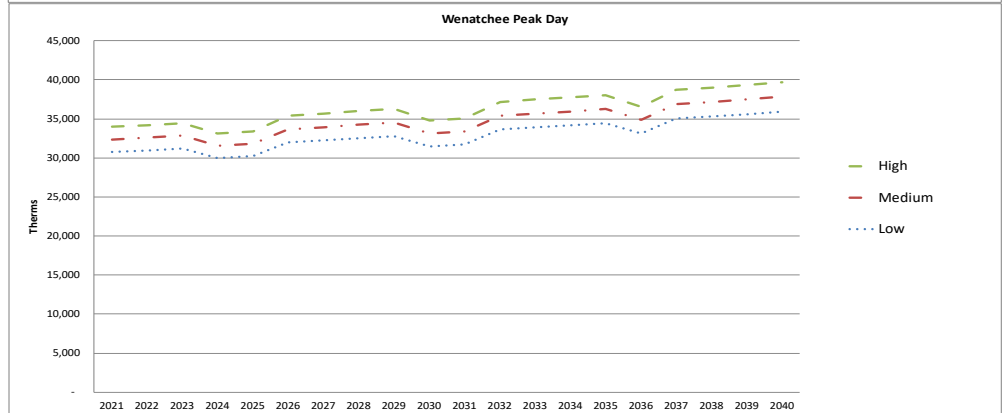
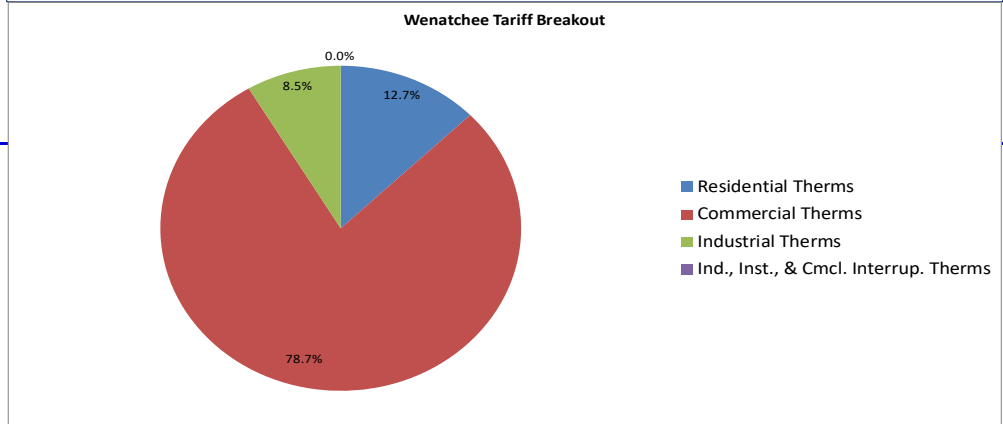
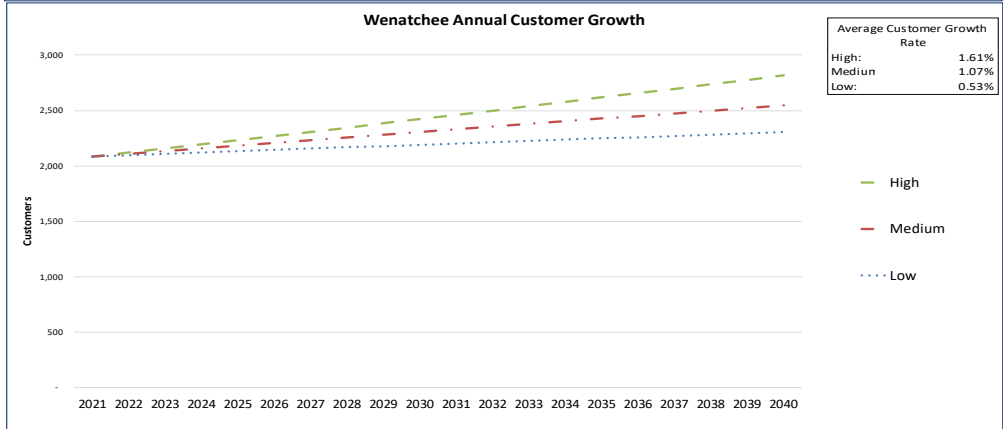
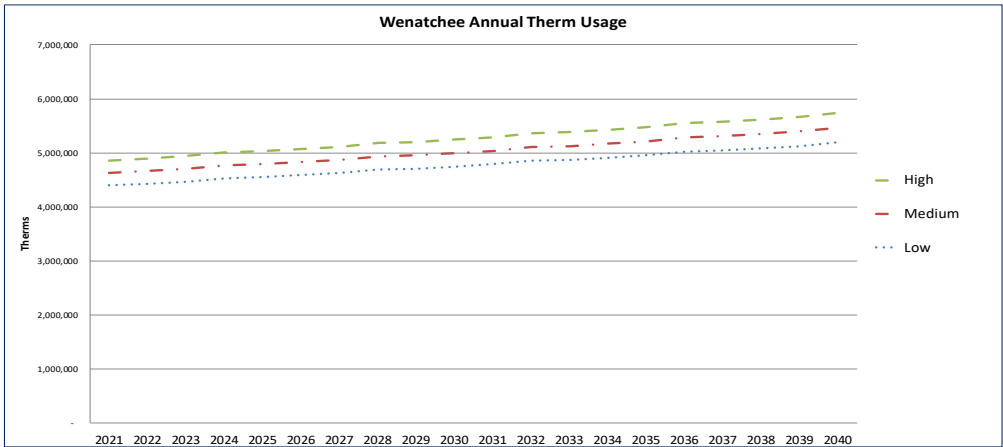
Wenatchee																	
Annual Requirements (Therms)																	
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	2,951,412	1,446,841	4,398,253	3,106,750	1,522,990	4,629,740	3,262,087	1,599,140	4,861,227	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,989,110	1,442,938	4,432,048	3,146,432	1,518,883	4,665,314	3,303,753	1,594,827	4,898,580	1.28%	-0.27%	0.77%	1.28%	-0.27%	0.77%	1.28%	-0.27%
2023	3,013,898	1,457,418	4,471,315	3,172,524	1,534,124	4,706,648	3,331,150	1,610,830	4,941,980	0.83%	1.00%	0.89%	0.83%	1.00%	0.89%	0.83%	1.00%
2024	3,034,469	1,499,431	4,533,900	3,194,178	1,578,348	4,772,526	3,353,887	1,657,266	5,011,153	0.68%	2.88%	1.40%	0.68%	2.88%	1.40%	0.68%	2.88%
2025	3,037,249	1,513,864	4,551,112	3,197,104	1,593,540	4,790,644	3,356,959	1,673,218	5,030,177	0.09%	0.26%	0.38%	0.09%	0.26%	0.38%	0.09%	0.26%
2026	3,061,186	1,528,347	4,589,533	3,222,301	1,608,786	4,831,087	3,383,416	1,689,225	5,072,641	0.79%	0.96%	0.84%	0.79%	0.96%	0.84%	0.79%	0.96%
2027	3,102,999	1,525,248	4,628,247	3,266,315	1,605,525	4,871,839	3,429,630	1,685,801	5,115,431	1.37%	-0.20%	0.84%	1.37%	-0.20%	0.84%	1.37%	-0.20%
2028	3,172,726	1,514,685	4,687,412	3,339,712	1,594,406	4,934,118	3,506,697	1,674,126	5,180,824	2.25%	-0.69%	1.28%	2.25%	-0.69%	1.28%	2.25%	-0.69%
2029	3,160,270	1,547,588	4,707,858	3,326,600	1,629,040	4,955,640	3,492,930	1,710,492	5,203,422	-0.39%	2.17%	0.44%	-0.39%	2.17%	0.44%	-0.39%	2.17%
2030	3,167,125	1,580,717	4,747,842	3,333,815	1,663,913	4,997,728	3,500,506	1,747,109	5,247,615	0.22%	2.14%	0.85%	0.22%	2.14%	0.85%	0.22%	2.14%
2031	3,192,261	1,595,893	4,788,154	3,360,274	1,679,888	5,040,162	3,528,288	1,763,882	5,292,170	0.79%	0.96%	0.85%	0.79%	0.96%	0.85%	0.79%	0.96%
2032	3,267,361	1,585,214	4,852,576	3,439,328	1,668,647	5,107,974	3,611,294	1,752,079	5,363,373	2.35%	-0.67%	1.35%	2.35%	-0.67%	1.35%	2.35%	-0.67%
2033	3,287,301	1,582,102	4,869,403	3,460,317	1,665,371	5,125,688	3,633,333	1,748,639	5,381,972	0.61%	-0.20%	0.35%	0.61%	-0.20%	0.35%	0.61%	-0.20%
2034	3,313,711	1,597,761	4,911,472	3,488,117	1,681,854	5,169,971	3,662,523	1,765,946	5,428,469	0.80%	0.99%	0.86%	0.80%	0.99%	0.86%	0.80%	0.99%
2035	3,322,845	1,632,744	4,955,589	3,497,732	1,718,678	5,216,409	3,672,618	1,804,511	5,477,230	0.28%	2.19%	0.90%	0.28%	2.19%	0.90%	0.28%	2.19%
2036	3,362,910	1,659,852	5,022,762	3,539,905	1,747,213	5,287,118	3,716,901	1,834,579	5,551,474	1.21%	1.66%	1.21%	1.66%	1.21%	1.66%	1.21%	1.66%
2037	3,365,737	1,676,251	5,041,988	3,542,881	1,764,475	5,307,356	3,720,025	1,852,698	5,572,723	0.08%	0.99%	0.38%	0.08%	0.99%	0.38%	0.08%	0.99%
2038	3,412,199	1,673,359	5,085,559	3,591,789	1,761,431	5,353,220	3,771,378	1,849,530	5,620,881	1.38%	-0.17%	0.86%	1.38%	-0.17%	0.86%	1.38%	-0.17%
2039	3,457,409	1,670,298	5,127,707	3,639,378	1,758,209	5,397,586	3,821,347	1,846,119	5,667,466	1.32%	-0.18%	0.83%	1.32%	-0.18%	0.83%	1.32%	-0.18%
2040	3,498,296	1,698,283	5,196,578	3,682,417	1,787,666	5,470,083	3,866,538	1,877,049	5,743,587	1.18%	1.68%	1.34%	1.18%	1.68%	1.34%	1.18%	1.68%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	3,964	26,763	30,727	4,173	28,172	32,344	4,381	29,580	33,961	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	3,953	26,993	30,946	4,161	28,413	32,575	4,369	29,834	34,203	-0.27%	0.86%	0.71%	-0.27%	0.86%	0.71%	-0.27%	0.86%
2023	3,993	27,199	31,192	4,203	28,631	32,834	4,413	30,062	34,476	1.00%	0.77%	0.80%	1.00%	0.77%	0.80%	1.00%	0.77%
2024	4,108	25,885	29,993	4,324	27,247	31,571	4,540	28,610	33,150	2.88%	-4.83%	-3.84%	2.88%	-4.83%	-3.84%	2.88%	-4.83%
2025	4,148	27,006	30,224	4,366	27,449	31,815	4,584	28,821	33,405	0.96%	0.74%	0.77%	0.96%	0.74%	0.77%	0.96%	0.74%
2026	4,187	27,800	31,987	4,408	29,263	33,670	4,628	30,726	35,354	0.96%	6.61%	5.83%	0.96%	6.61%	5.83%	0.96%	6.61%
2027	4,179	28,050	32,229	4,399	29,526	33,925	4,619	31,003	35,621	-0.20%	0.90%	0.76%	-0.20%	0.90%	0.76%	-0.20%	0.90%
2028	4,150	28,395	32,544	4,368	29,889	34,257	4,587	31,384	35,970	-0.69%	1.23%	0.98%	-0.69%	1.23%	0.98%	-0.69%	1.23%
2029	4,240	28,554	32,794	4,463	30,056	34,520	4,686	31,559	36,246	2.17%	0.56%	0.77%	2.17%	0.56%	0.77%	2.17%	0.56%
2030	4,331	27,126	31,457	4,559	28,554	33,113	4,787	29,982	34,768	2.14%	-5.00%	-4.08%	2.14%	-5.00%	-4.08%	2.14%	-5.00%
2031	4,372	27,324	31,696	4,602	28,762	33,364	4,833	30,200	35,033	0.96%	0.73%	0.76%	0.96%	0.73%	0.76%	0.96%	0.73%
2032	4,343	29,280	33,623	4,572	30,821	35,393	4,800	32,362	37,162	-0.67%	7.16%	6.08%	-0.67%	7.16%	6.08%	-0.67%	7.16%
2033	4,335	29,550	33,884	4,563	31,105	35,668	4,791	32,660	37,451	-0.20%	0.92%	0.78%	-0.20%	0.92%	0.78%	-0.20%	0.92%
2034	4,377	29,771	34,149	4,608	31,338	35,946	4,838	32,905	37,743	0.99%	0.75%	0.78%	0.99%	0.75%	0.78%	0.99%	0.75%
2035	4,473	29,942	34,416	4,709	31,518	36,227	4,944	33,094	38,038	2.19%	0.57%	0.78%	2.19%	0.57%	0.78%	2.19%	0.57%
2036	4,548	28,541	33,089	4,787	30,043	34,830	5,026	31,546	36,572	1.66%	-4.68%	-3.86%	1.66%	-4.68%	-3.86%	1.66%	-4.68%
2037	4,592	30,437	35,029	4,834	32,039	36,873	5,076	33,641	38,716	0.99%	6.64%	5.86%	0.99%	6.64%	5.86%	0.99%	6.64%
2038	4,585	30,719	35,303	4,826	32,335	37,161	5,067	33,952	39,019	-0.17%	0.93%	0.78%	-0.17%	0.93%	0.78%	-0.17%	0.93%
2039	4,576	31,003	35,579	4,817	32,634	37,451	5,058	34,256	39,324	-0.18%	0.92%	0.78%	-0.18%	0.92%	0.78%	-0.18%	0.92%
2040	4,653	31,276	35,929	4,898	32,922	37,820	5,143	34,568	39,711	1.68%	0.88%	0.98%	1.68%	0.88%	0.98%	1.68%	0.88%

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



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

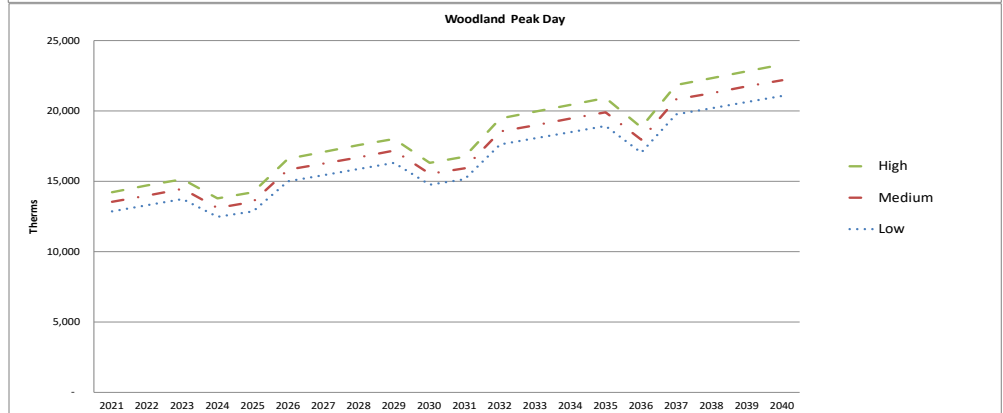
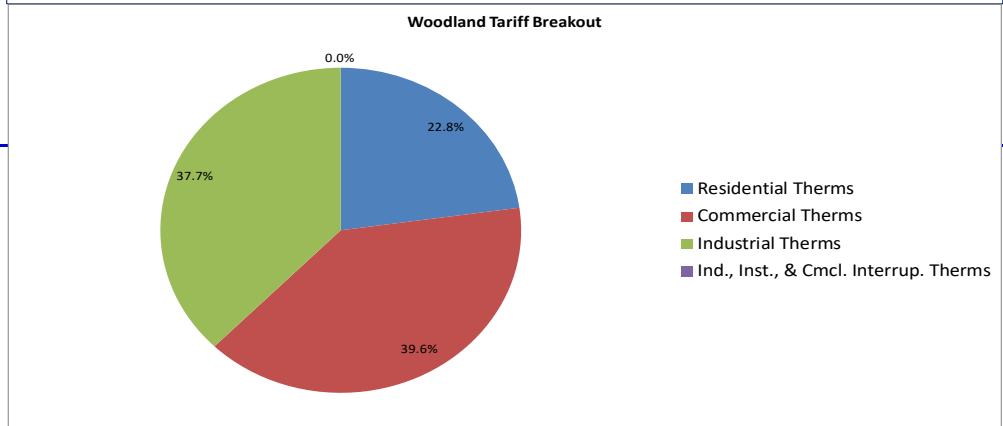
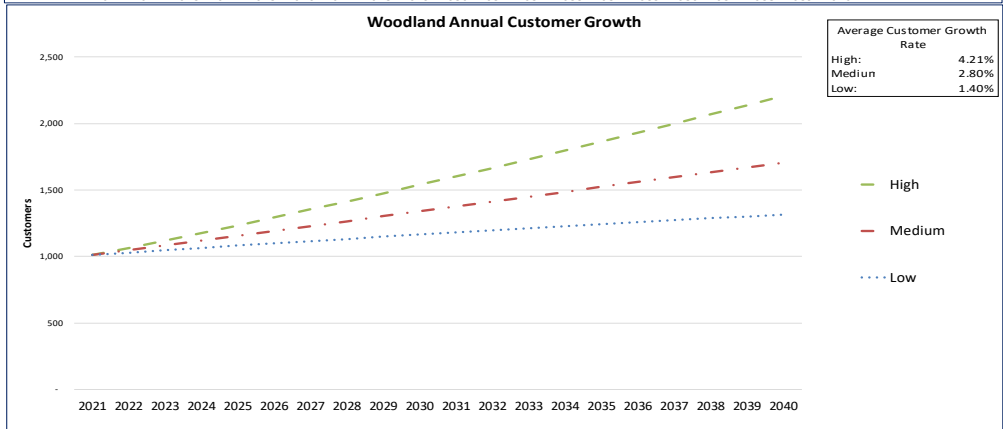
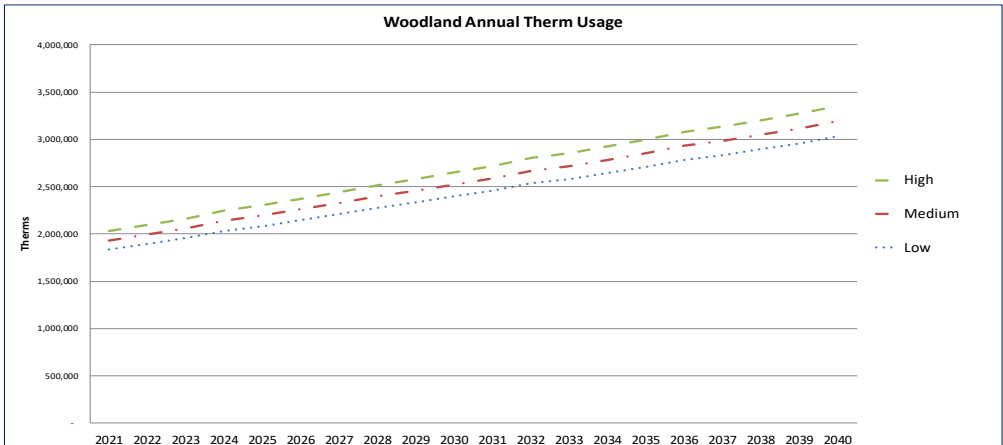
Woodland																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	1,048,157	787,075	1,835,232	1,103,323	828,500	1,931,823	1,158,489	869,926	2,028,414	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	1,087,117	808,994	1,896,111	1,144,334	851,572	1,995,906	1,201,550	894,151	2,095,701	3.72%	2.78%	3.32%	3.72%	2.78%	3.32%	3.72%	2.78%
2023	1,254,817	703,671	1,958,488	1,320,860	740,706	2,061,566	1,386,903	777,742	2,164,644	15.43%	-13.02%	3.29%	15.43%	-13.02%	3.29%	15.43%	-13.02%
2024	1,333,492	698,138	2,031,630	1,403,676	734,882	2,138,558	1,473,860	717,626	2,245,486	6.27%	-0.79%	3.73%	6.27%	-0.79%	3.73%	6.27%	-0.79%
2025	1,121,383	963,917	2,085,299	1,180,403	1,014,650	2,195,052	1,239,423	1,065,382	2,304,805	-15.91%	38.07%	2.64%	-15.91%	38.07%	2.64%	-15.91%	38.07%
2026	1,226,326	921,278	2,147,604	1,291,080	969,766	2,260,846	1,355,634	1,018,254	2,373,889	9.38%	-4.42%	3.00%	9.38%	-4.42%	3.00%	9.38%	-4.42%
2027	1,257,797	952,520	2,210,317	1,323,997	1,002,652	2,326,649	1,390,197	1,052,785	2,442,982	2.55%	3.39%	2.91%	2.55%	3.39%	2.91%	2.55%	3.39%
2028	1,448,456	830,763	2,279,219	1,524,691	874,488	2,399,178	1,600,925	918,212	2,519,137	15.16%	-12.78%	3.12%	15.16%	-12.78%	3.12%	15.16%	-12.78%
2029	1,321,085	1,014,434	2,335,518	1,390,616	1,067,825	2,458,440	1,460,147	1,121,216	2,581,362	-8.79%	22.11%	2.47%	-8.79%	22.11%	2.47%	-8.79%	22.11%
2030	1,565,042	833,023	2,398,065	1,647,413	876,866	2,524,279	1,729,783	920,710	2,650,493	18.47%	-17.88%	2.68%	18.47%	-17.88%	2.68%	18.47%	-17.88%
2031	1,317,931	1,142,685	2,460,616	1,387,296	1,202,826	2,590,122	1,456,661	1,262,967	2,719,628	-15.79%	37.17%	2.61%	-15.79%	37.17%	2.61%	-15.79%	37.17%
2032	1,444,289	1,090,142	2,534,431	1,520,304	1,147,518	2,667,822	1,596,319	1,204,894	2,801,213	9.59%	-4.60%	3.00%	9.59%	-4.60%	3.00%	9.59%	-4.60%
2033	1,473,258	1,110,620	2,583,860	1,550,798	1,169,055	2,719,852	1,628,337	1,227,507	2,855,845	2.01%	1.88%	1.95%	2.01%	1.88%	1.95%	2.01%	1.88%
2034	1,674,222	972,120	2,646,343	1,762,339	1,023,285	2,785,624	1,850,456	1,074,449	2,924,905	13.64%	-12.47%	1.36%	13.64%	-12.47%	1.36%	13.64%	-12.47%
2035	1,531,449	1,179,633	2,711,082	1,612,051	1,241,719	2,853,770	1,692,654	1,303,805	2,996,458	-8.53%	21.35%	2.45%	-8.53%	21.35%	2.45%	-8.53%	21.35%
2036	1,492,196	1,293,832	2,786,027	1,570,732	1,351,928	2,922,660	1,649,369	1,430,225	3,073,893	-2.56%	9.68%	2.76%	-2.56%	9.68%	2.76%	-2.56%	9.68%
2037	1,613,572	1,222,968	2,836,540	1,698,497	1,287,335	2,985,832	1,783,421	1,351,702	3,135,123	8.13%	-5.48%	1.81%	8.13%	-5.48%	1.81%	8.13%	-5.48%
2038	1,643,364	1,255,803	2,899,168	1,729,857	1,321,898	3,051,755	1,816,350	1,387,993	3,204,343	1.85%	2.68%	2.21%	1.85%	2.68%	2.21%	1.85%	2.68%
2039	1,683,106	1,276,259	2,959,365	1,771,691	1,343,430	3,115,121	1,860,275	1,410,602	3,270,877	2.42%	1.63%	2.08%	2.42%	1.63%	2.08%	2.42%	1.63%
2040	1,932,469	1,102,881	3,035,349	2,034,178	1,160,927	3,195,105	2,135,886	1,218,974	3,354,860	14.82%	-13.58%	2.57%	14.82%	-13.58%	2.57%	14.82%	-13.58%

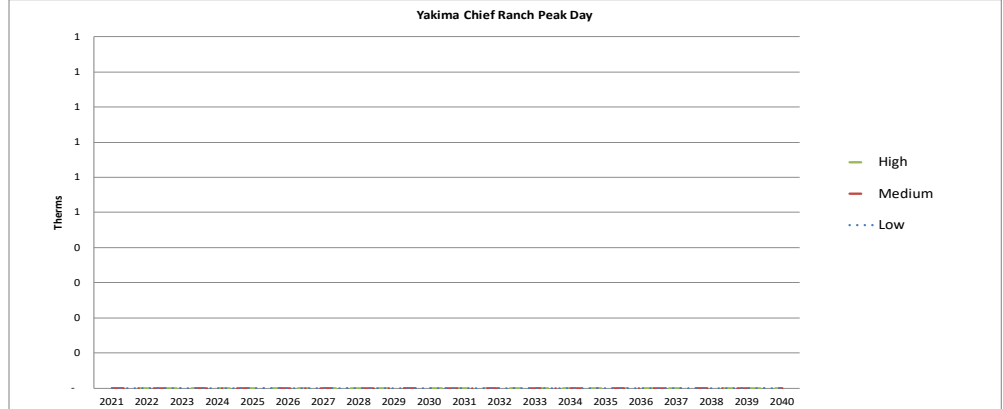
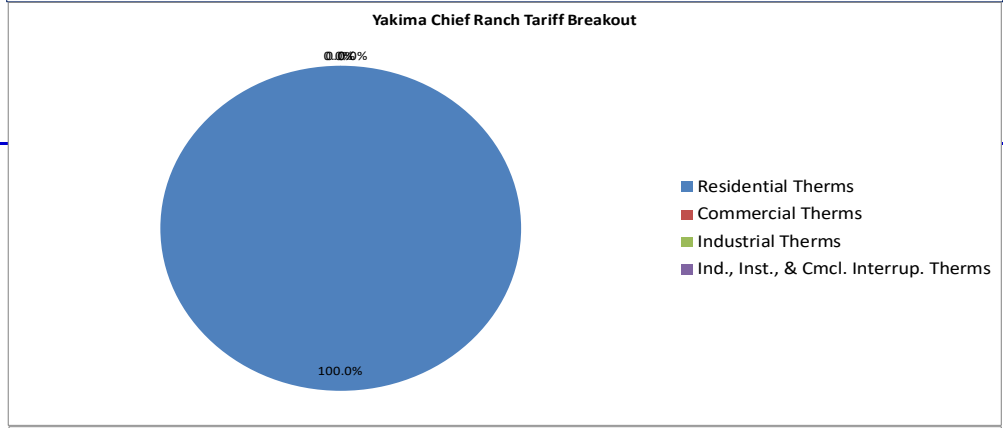
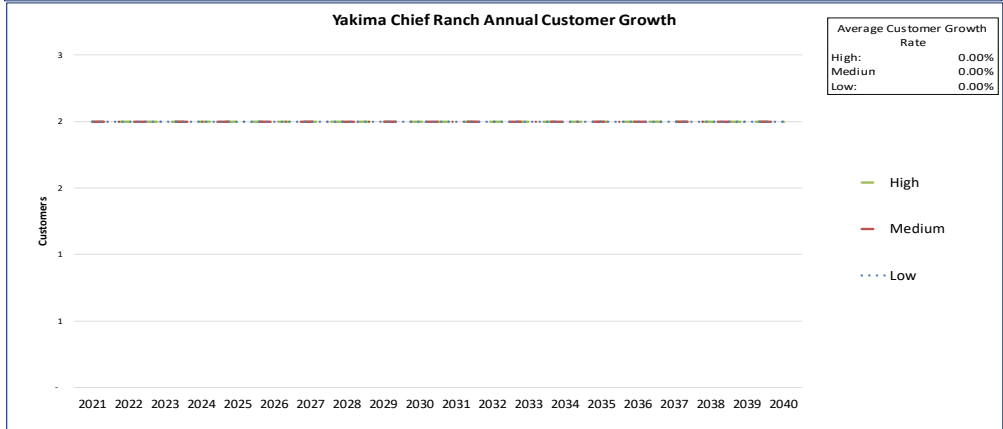
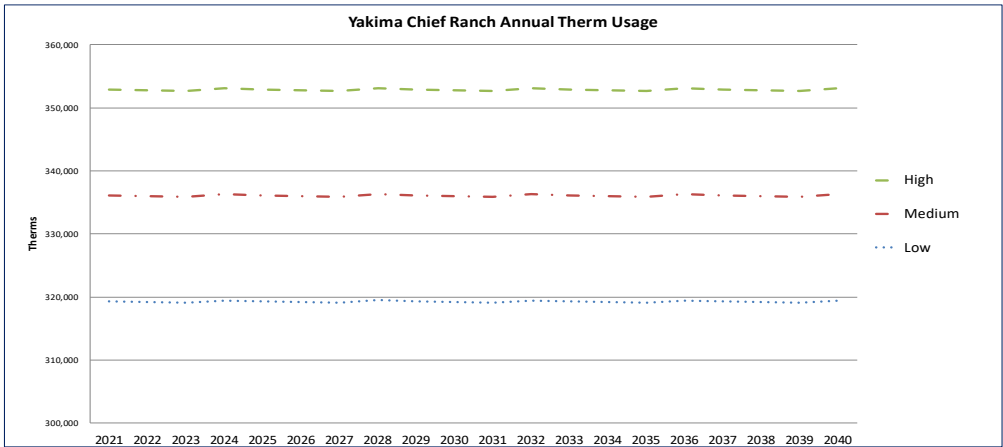
Peak Day - BaseLoad									Annual Change								
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	2,156	10,701	12,857	2,270	11,264	13,534	2,383	11,827	14,210	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	2,216	11,073	13,289	2,333	11,656	13,989	2,450	12,238	14,688	2.78%	3.48%	3.36%	2.78%	3.48%	3.36%	2.78%	3.48%
2023	1,928	11,794	13,722	2,029	12,415	14,444	2,131	10,325	15,166	-13.02%	6.51%	3.25%	-13.02%	6.51%	3.25%	-13.02%	6.51%
2024	1,913	10,555	12,468	2,013	11,110	13,124	2,114	11,666	13,780	-0.79%	-10.50%	-9.14%	-0.79%	-10.50%	-9.14%	-0.79%	-10.50%
2025	2,641	10,209	12,850	2,780	10,747	13,527	2,919	11,284	14,203	38.07%	-3.27%	2.07%	38.07%	-3.27%	2.07%	38.07%	-3.27%
2026	2,524	12,495	15,019	2,657	13,153	15,810	2,790	13,811	16,500	-4.42%	22.39%	16.88%	-4.42%	22.39%	16.88%	-4.42%	22.39%
2027	2,610	12,843	15,452	2,747	13,518	16,265	2,884	14,194	17,079	3.39%	2.78%	2.88%	3.39%	2.78%	2.88%	3.39%	2.78%
2028	2,276	13,608	15,884	2,396	14,325	16,720	2,516	15,041	17,556	-12.78%	5.96%	2.80%	-12.78%	5.96%	2.80%	-12.78%	5.96%
2029	2,779	13,538	16,317	2,926	14,251	17,176	3,072	14,963	18,035	22.11%	-0.52%	2.73%	22.11%	-0.52%	2.73%	22.11%	-0.52%
2030	2,282	12,482	14,765	2,402	13,139	15,542	2,522	13,796	16,319	-17.88%	-7.80%	-9.52%	-17.88%	-7.80%	-9.52%	-17.88%	-7.80%
2031	3,131	12,017	15,148	3,295	12,650	15,945	3,460	13,282	16,743	37.17%	-3.73%	2.60%	37.17%	-3.73%	2.60%	37.17%	-3.73%
2032	2,987	14,629	17,616	3,144	15,399	18,543	3,301	16,169	19,470	-4.60%	21.73%	16.29%	-4.60%	21.73%	16.29%	-4.60%	21.73%
2033	3,043	15,007	18,049	3,203	15,796	18,999	3,363	16,586	19,949	1.88%	2.58%	2.46%	1.88%	2.58%	2.46%	1.88%	2.58%
2034	2,663	15,820	18,483	2,804	16,652	19,456	2,944	17,485	20,429	-12.47%	5.42%	2.40%	-12.47%	5.42%	2.40%	-12.47%	5.42%
2035	3,232	15,685	18,917	3,402	16,510	19,912	3,572	17,336	20,908	21.35%	-0.85%	2.35%	21.35%	-0.85%	2.35%	21.35%	-0.85%
2036	3,545	15,518	17,063	3,731	14,229	17,961	3,918	14,941	18,859	9.68%	-13.82%	-9.80%	9.68%	-13.82%	-9.80%	9.68%	-13.82%
2037	3,351	16,432	19,783	3,527	17,297	20,824	3,703	18,162	21,865	-5.48%	21.56%	15.94%	-5.48%	21.56%	15.94%	-5.48%	21.56%
2038	3,441	16,776	20,217	3,622	17,659	21,281	3,803	18,542	22,345	2.68%	2.09%	2.19%	2.68%	2.09%	2.19%	2.68%	2.09%
2039	3,497	17,154	20,651	3,681	18,057	21,738	3,865	18,960	22,825	1.63%	2.25%	2.15%	1.63%	2.25%	2.15%	1.63%	2.25%
2040	3,022	18,061	21,083	3,181	19,012	22,192	3,340	19,962	23,302	-13.58%	5.29%	2.09%	-13.58%	5.29%	2.09%	-13.58%	5.29%

Therms Usage by Class									Annual Change								
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	428,113	1,407,119	1,835,232	450,646	1,481,178	1,931,823	473,178	1,555,236	2,028,414	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	445,867	1,450,243	1,896,111	469,334	1,526,572	1,995,906	492,801	1,602,900	2,095,701	4.15%	3.06%	3.32%	4.15%	3.06%	3.32%	4.15%	3.06%
2023	463,916	1,494,571	1,958,488	488,333	1,573,233	2,061,566	512,570	1,651,895	2,164,644	4.05%	3.06%	3.29%	4.05%	3.06%	3.29%	4.05%	3.06%
2024	484,578	1,547,052	2,031,630	510,083	1,628,475	2,138,558	535,587	1,709,899	2,245,486	4.45%	3.51%	3.73%	4.45%	3.51%	3.73%	4.45%	3.51%
2025	500,450	1,594,850	2,085,299	526,789	1,668,263	2,195,052	553,129	1,751,676	2,304,805	3.28%	2.44%	2.64%	3.28%	2.44%	2.64%	3.28%	2.44%
2026	518,537	1,629,267	2,147,604	545,828	1,715,018	2,260,846	573,120	1,800,769	2,373,889	3.61%	2.80%	3.00%	3.61%	2.80%	3.00%	3.61%	2.80%
2027	536,628	1,673,689	2,210,317	564,871	1,761,778	2,326,649	593,115	1,849,867	2,442,982	3.49%	2.73%	2.91%	3.49%	2.73%	2.91%	3.49%	2.73%
2028	556,545	1,722,674	2,279,219	585,837	1,813,341	2,399,178	615,129	1,904,008	2,519,137	3.71%	2.93%	3.12%	3.71%	2.93%	3.12%	3.71%	2.93%
2029	572,856	1,762,662	2,335,518	603,007	1,855,434	2,458,440	633,157	1,948,205	2,581,362	2.93%	2.32%	2.47%	2.93%	2.32%	2.47%	2.93%	2.32%
2030	590,963	1,807,102	2,398,065	622,066	1,902,213	2,524,279	653,170	1,997,323	2,650,493	3.16%	2.52%	2.68%	3.16%	2.52%	2.68%	3.16%	2.52%
2031	609,072	1,851,544	2,460,616	641,128	1,948,994	2,590,122	673,185	2,046,444	2,719,628	3.06%	2.46%	2.61%	3.06%	2.46%	2.61%	3.06%	2.46%
2032	630,128	1,904,303	2,534,431	663,293	2,004,529	2,667,822	696,458	2,104,756	2,801,213	3.46%	2.85%	3.00%	3.46%	2.85%	3.00%	3.46%	2.85%
2033	644,910	1,938,950	2,583,860	678,853	2,041,000	2,719,852	712,795	2,143,050	2,855,845	2.35%	1.82%	1.95%	2.35%	1.82%	1.95%	2.35%	1.82%
2034	663,008	1,983,334	2,646,343	697,903	2,087,720	2,785,624	732,799	2,192,107	2,924,905	2.81%	2.29%	2.42%	2.81%	2.29%	2.42%	2.81%	2.29%
2035	681,593	2,029,488	2,711,081	717,467	2,136,303	2,853,770	753,340	2,243,118	2,996,458	2.80%	2.33%	2.45%	2.80%	2.33%	2.45%	2.80%	2.33%
2036	703,005	2,083,023	2,786,027	740,005	2,192,656	2,932,660	777,005	2,302,388	3,079,293	3.14%	2.64%	2.76%	3.14%	2.64%	2.76%	3.14%	2.64%
2037	717,920	2,118,220	2,836,540	755,706	2,230,126	2,985,832	793,491	2,341,632	3,135,123	2.12%	1.						

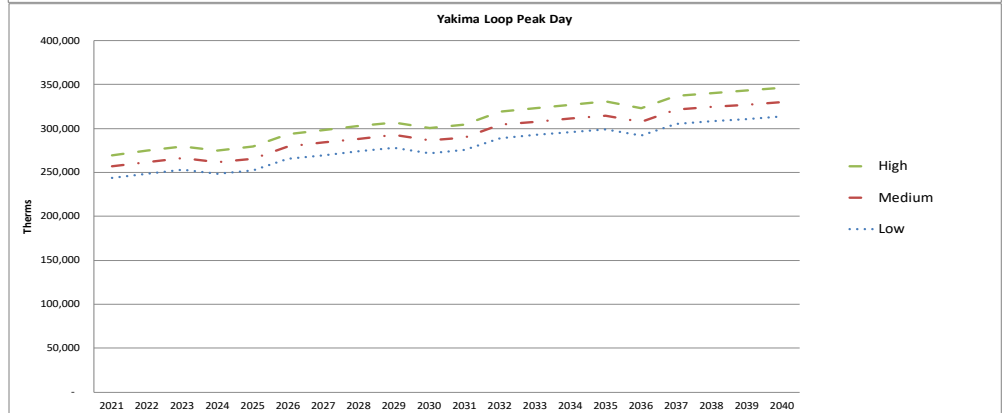
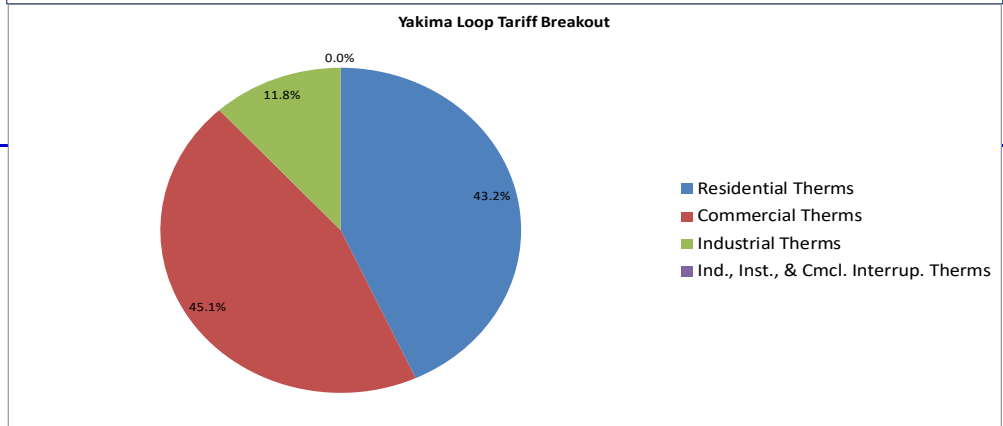
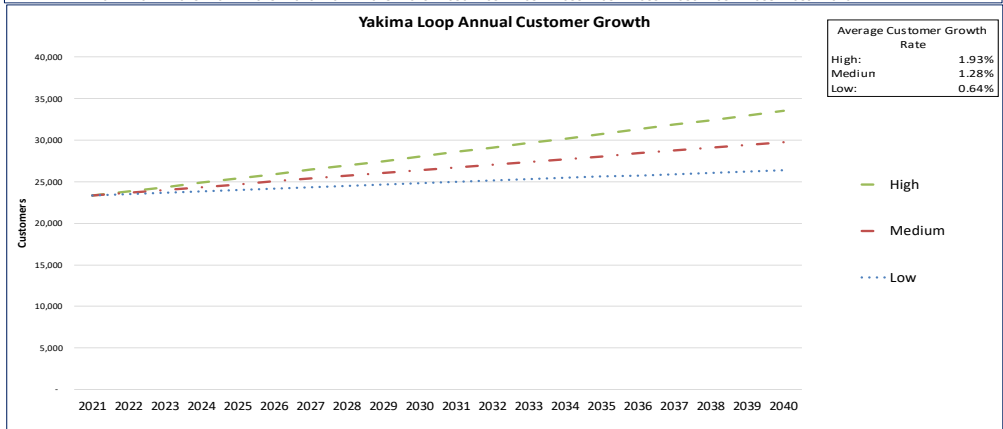
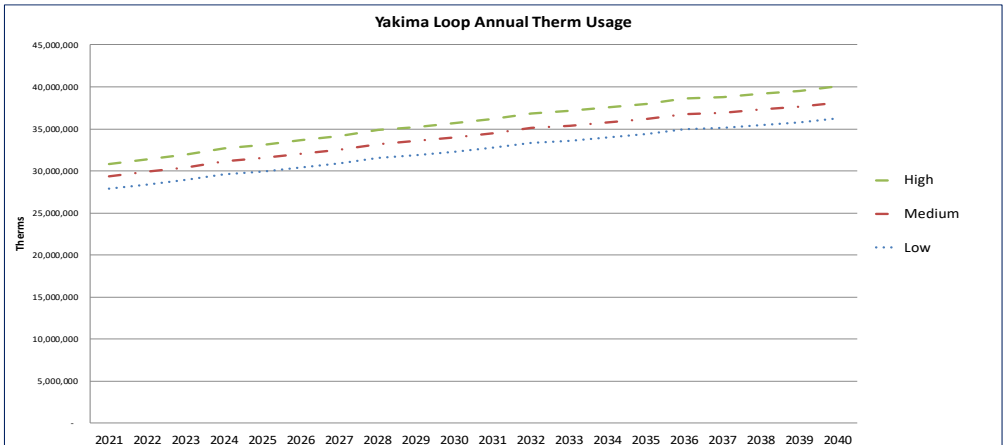












Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

Yakima Training Center															
Annual Requirements (Therms)															
	Low			Medium			High			Annual Change					
	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total
2021	335,190	15,251	350,441	352,831	16,054	368,885	370,473	16,857	387,329	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	336,740	15,871	352,611	354,463	16,706	371,170	372,187	17,542	389,728	0.46%	4.06%	0.62%	0.46%	0.62%	0.46%
2023	338,664	16,124	354,788	356,488	16,973	373,461	374,312	17,822	392,134	0.57%	1.60%	0.62%	0.57%	0.62%	0.57%
2024	343,710	15,395	359,105	361,800	16,205	378,005	379,890	17,015	396,905	1.49%	-4.52%	1.22%	1.49%	-4.52%	1.22%
2025	343,656	15,450	359,106	361,743	16,263	378,006	379,830	17,076	396,906	-0.02%	0.36%	0.00%	-0.02%	0.36%	0.00%
2026	345,519	15,667	361,186	363,704	16,491	380,195	381,889	17,316	399,205	0.54%	1.41%	0.58%	0.54%	1.41%	0.58%
2027	346,979	16,248	363,227	365,241	17,103	382,344	383,503	17,958	401,462	0.42%	3.71%	0.57%	0.42%	3.71%	0.57%
2028	351,242	16,101	367,343	369,728	16,948	386,676	388,215	17,796	406,010	1.23%	-0.90%	1.13%	1.23%	-0.90%	1.13%
2029	350,820	16,339	367,159	369,284	17,199	386,483	387,748	18,059	405,807	-0.12%	1.48%	-0.05%	-0.12%	1.48%	-0.05%
2030	352,708	16,358	369,066	371,272	17,219	388,491	389,836	18,080	407,915	0.54%	0.11%	0.52%	0.54%	0.11%	0.52%
2031	354,521	16,402	370,923	373,180	17,265	390,445	391,839	18,129	409,967	0.51%	0.27%	0.50%	0.51%	0.27%	0.50%
2032	358,785	16,145	374,929	377,668	16,994	394,663	396,552	17,844	414,396	1.20%	-1.57%	1.08%	1.20%	-1.57%	1.08%
2033	357,635	16,776	374,411	376,457	17,659	394,116	395,280	18,542	413,822	-0.32%	3.91%	-0.14%	-0.32%	3.91%	-0.14%
2034	359,068	17,020	376,088	377,967	17,916	395,882	396,865	18,812	415,677	0.40%	1.45%	0.45%	0.40%	1.45%	0.45%
2035	360,483	17,248	377,731	379,564	18,156	397,720	398,429	19,064	417,493	0.39%	1.34%	0.39%	1.34%	0.39%	1.34%
2036	365,241	16,222	381,463	384,569	17,075	401,644	403,797	17,929	421,727	1.35%	-5.95%	1.01%	1.35%	-5.95%	1.01%
2037	364,362	16,417	380,779	383,539	17,281	400,820	402,716	18,145	420,861	-0.27%	1.21%	-0.21%	-0.27%	1.21%	-0.21%
2038	365,214	16,996	382,210	384,436	17,891	402,327	403,658	18,785	422,443	0.23%	3.53%	0.38%	0.23%	3.53%	0.38%
2039	365,953	17,614	383,567	385,213	18,541	403,754	404,474	19,468	423,942	0.20%	3.63%	0.35%	0.20%	3.63%	0.35%
2040	370,170	17,025	387,195	389,652	17,921	407,574	409,135	18,817	427,952	1.15%	-3.34%	0.95%	1.15%	-3.34%	0.95%

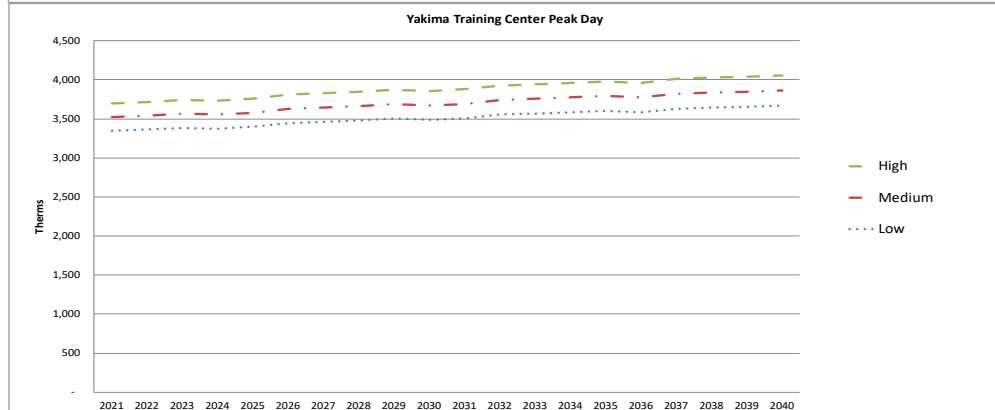
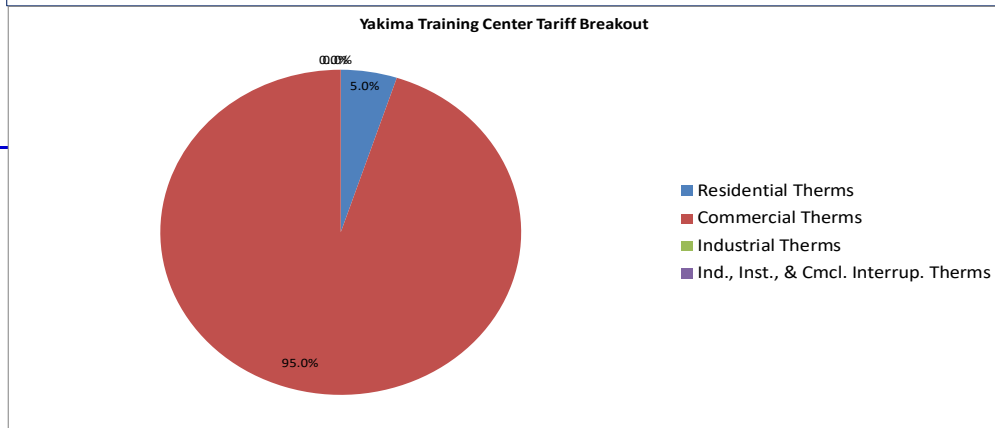
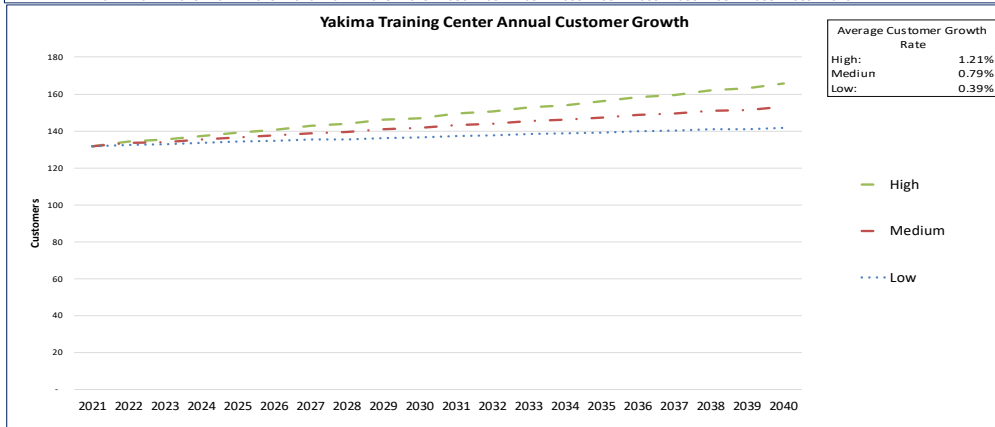
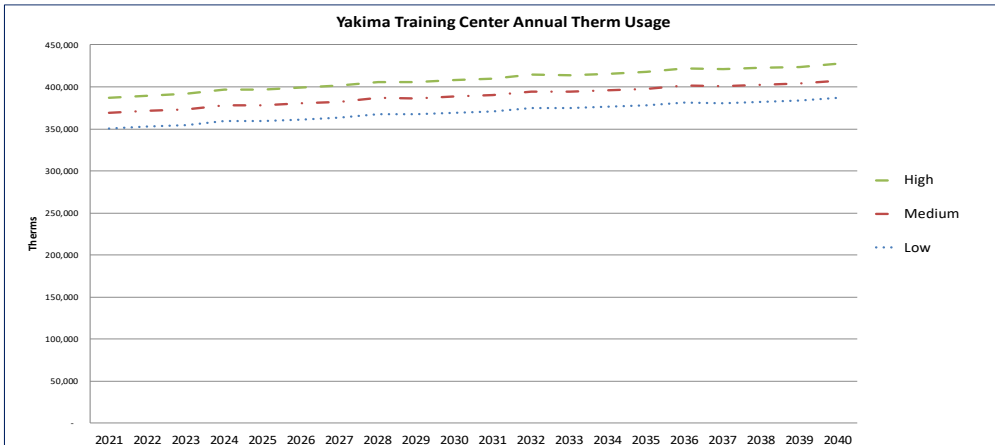
Peak Day - Baseload															
	Low			Medium			High			Annual Change					
	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	42	3,301	3,343	44	3,475	3,519	46	3,649	3,695	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	43	3,321	3,364	46	3,495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

Therms Usage by Class															
	Low			Medium			High			Annual Change					
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	17,373	333,068	350,441	18,287	350,598	368,885	19,202	368,128	387,329	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	17,714	334,897	352,611	18,646	352,524	371,170	19,578	370,150	389,728	1.96%	0.55%	0.62%	1.96%	0.55%	0.62%
2023	18,054	336,734	354,788	19,005	354,456	373,461	19,955	372,179	392,134	1.92%	0.55%	0.62%	1.92%	0.55%	0.62%
2024	18,494	340,610	359,105	19,467	358,537	378,005	20,441	376,644	396,905	2.43%	1.15%	1.22%	2.43%	1.15%	1.22%
2025	18,727	340,379	359,106	19,712	358,293	378,006	20,698	376,208	396,906	1.26%	-0.07%	0.00%	1.26%	-0.07%	0.00%
2026	19,053	342,133	361,186	20,056	360,140	380,195	21,058	378,147	399,205	1.74%	0.52%	0.58%	1.74%	0.52%	0.58%
2027	19,372	343,855	363,227	20,392	361,952	382,344	21,412	380,050	401,462	1.68%	0.50%	0.57%	1.68%	0.50%	0.57%
2028	19,785	347,558	367,343	20,826	365,850	386,676	21,868	384,143	406,010	2.13%	1.08%	1.13%	2.13%	1.08%	1.13%
2029	19,988	347,171	367,159	21,040	365,443	386,483	22,093	383,715	405,807	1.03%	-0.11%	-0.05%	1.03%	-0.11%	-0.05%
2030	20,286	348,780	369,066	21,353	367,137	388,491	22,421	385,494	407,915	1.49%	0.46%	0.52%	1.49%	0.46%	0.52%
2031	20,575	350,348	370,923	21,657	368,788	390,445	22,740	387,221	409,967	1.42%	0.45%	0.50%	1.42%	0.45%	0.50%
2032	20,968	353,962	374,929	22,071	372,591	394,663	23,175	391,221	414,396	1.91%	1.03%	1.08%	1.91%	1.03%	1.08%
2033	21,123	353,288	374,411	22,235	371,882	394,116	23,346	390,476	413,822	0.74%	-0.19%	-0.14%	0.74%	-0.19%	-0.14%
2034	21,386	354,703	376,088	22,511	373,371	395,882	23,637	392,040	415,677	1.24%	0.40%	0.45%	1.24%	0.40%	0.45%
2035	21,642	356,090	377,731	22,781	374,831	397,720	23,920	393,573	417,493	1.20%	0.39%	0.44%	1.20%	0.39%	0.44%
2036	22,003	359,559	381,562	23,161	378,483	401,645	24,319	397,407	421,727	1.67%	0.97%	1.01%	1.67%	0.97%	1.01%
2037	22,117	358,662	380,779	23,281	377,539	400,820	24,445	396,416	420,861	0.52%	-0.25%	-0.21%	0.52%	-0.25%	-0.21%
2038	22,341	359,869	382,211	23,517	378,810	402,327	24,693	397,750	422,443	1.01%	0.34%	0.38%	1.01%	0.34%	0.38%
2039	22,554	361,012	383,567	23,742	380,013	403,754	24,929	399,013	423,942	0.95%	0.32%	0.35%	0.95%	0.32%	0.35%
2040	22,887	364,308	387,195	24,092	383,482	407,574	25,296	402,656	427,952	1.47%	0.91%	0.95%	1.47%	0.91%	0.95%

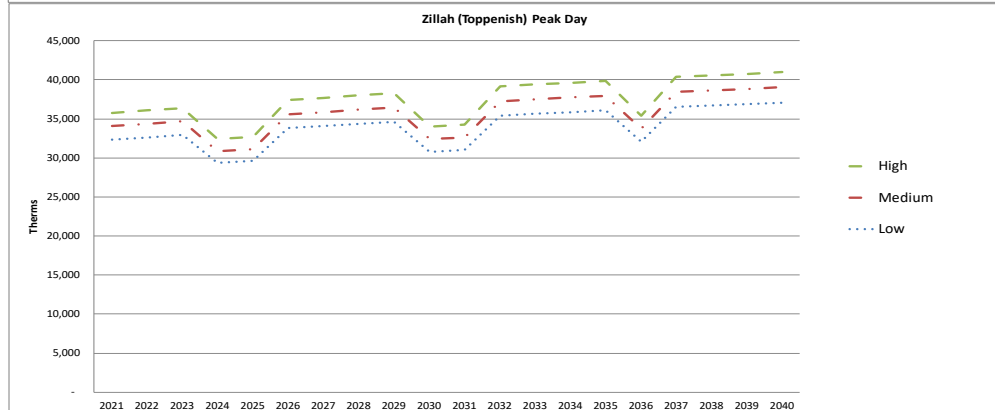
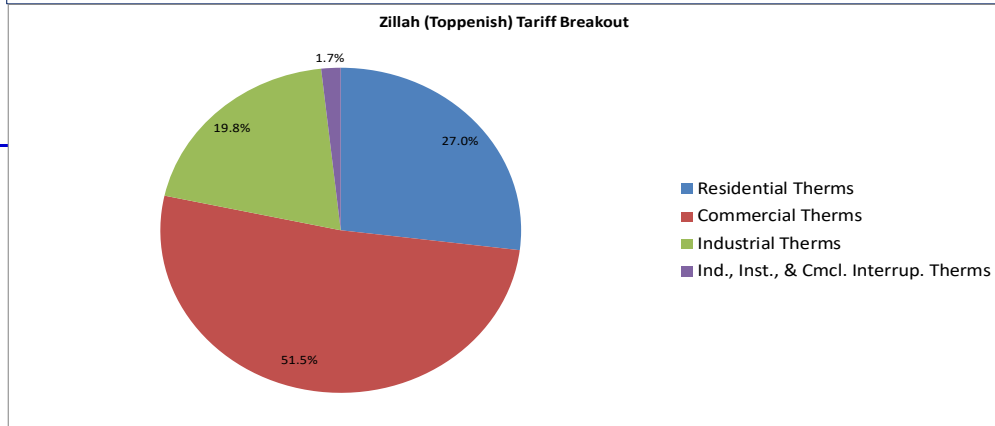
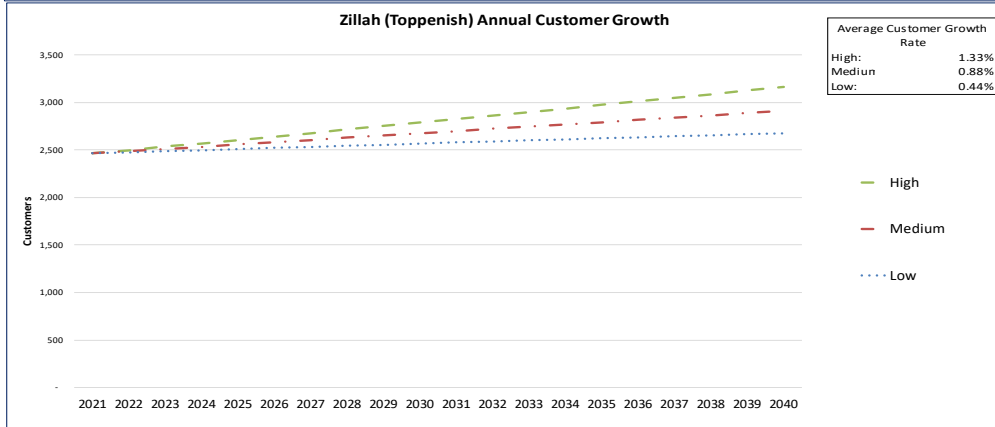
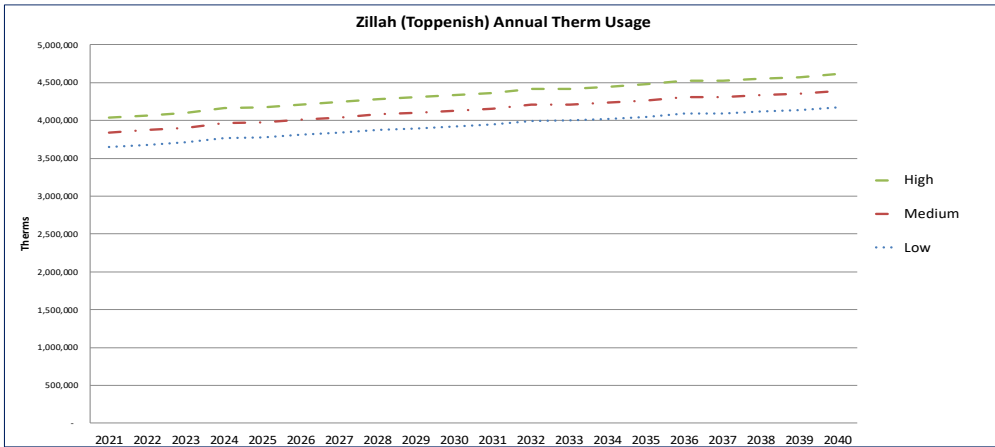
  

Customer Count Forecast															
	Low			Medium			High			Annual Change					
	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	23	109	132	23	109	132	23	109	132	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	24	109	133	24	109	133	24	110	134	1.80%	0.38%	0.63%	1.80%	0.77%	1.27%
2023	24	109	133	24	110	134	25	110	135	0.69%	0.15%	0.25%	0.69%	0.30%	0.50%
2024	24	109	134	25	110	135	26	111	137	1.37%	0.30%	0.49%	1.37%	0.61%	0.99%
2025	24	110	134	26	111	137	27	112	139	1.17%	0.26%	0.43%	1.17%	0.53%	0.86%
2026	25	110	135	26	112	138	28	113	140	0.81%	0.23%	0.33%	0.81%	0.45%	0.67%
2027	25	110	135	27	112	139	29	114	143	1.76%	0.22%	0.50%	1.76%	0.54%	1.03%
2028	25	111	136	27	113	140	29	115	144	0.31%	0.22%	0.24%	0.62%	0.45%	0.48%
2029	25	111	136	28	113	141	31	115	146	1.69%	0.22%	0.49%	1.69%	0.44%	1.01%
2030	26	111	137	28	114	142	31	116	147	0.30%	0.22%	0.24%	0.60%	0.44%	0.47%



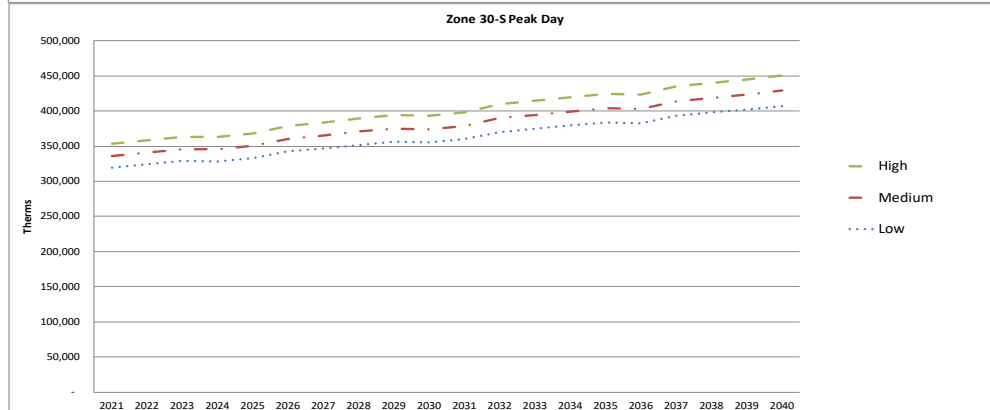
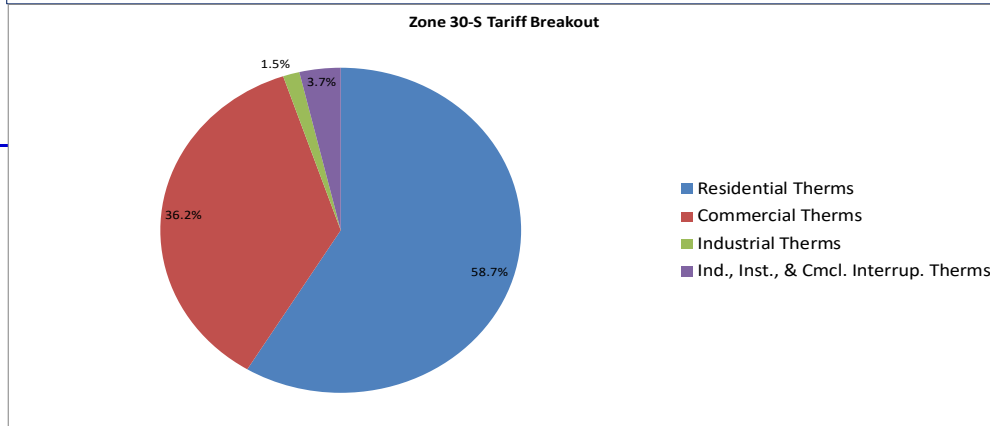
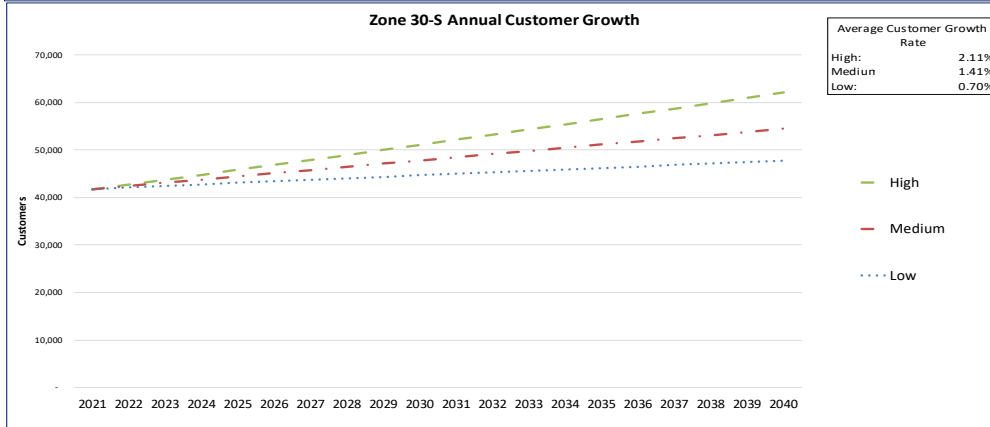
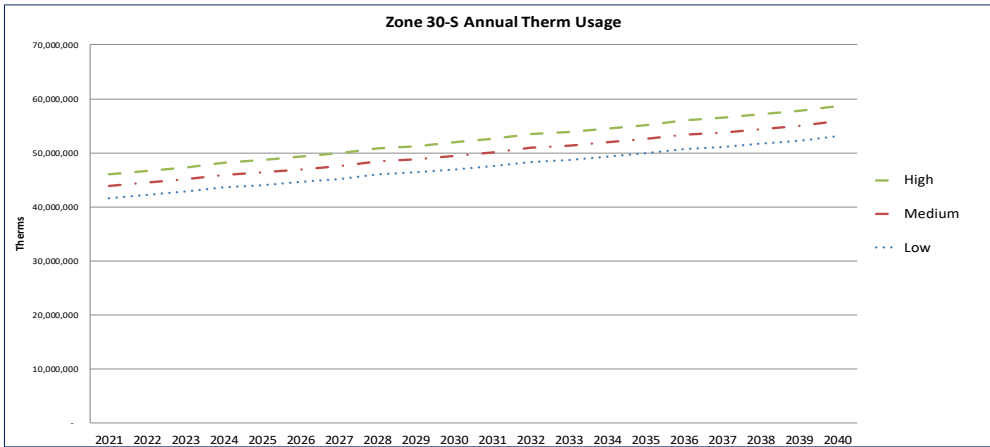
Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

Zillah (Toppenish)																					
Annual Requirements (Therms)									Annual Change												
Low			Medium			High			Low			Medium			High						
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
2021	2,661,031	989,816	3,650,848	2,801,086	1,041,912	3,842,998	2,941,140	1,094,008	4,035,147	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	2,674,303	1,005,037	3,679,340	2,815,056	1,057,934	3,872,989	2,955,808	1,110,831	4,066,639	0.50%	1.54%	0.78%	0.50%	1.54%	0.78%	0.50%	1.54%	0.78%			
2023	3,320,424	390,747	3,711,171	3,495,183	411,313	3,906,496	3,669,942	431,878	4,101,821	24.16%	-61.12%	0.87%	24.16%	-61.12%	0.87%	24.16%	-61.12%	0.87%			
2024	3,351,972	412,275	3,764,247	3,528,391	433,974	3,962,365	3,704,811	455,672	4,160,483	0.95%	5.51%	1.43%	0.95%	5.51%	1.43%	0.95%	5.51%	1.43%			
2025	2,668,625	1,109,279	3,777,904	2,809,079	1,167,662	3,976,741	2,949,533	1,226,045	4,175,578	-20.39%	169.06%	0.36%	-20.39%	169.06%	0.36%	-20.39%	169.06%	0.36%			
2026	2,805,644	1,002,746	3,808,390	2,953,309	1,055,522	4,008,831	3,100,934	1,108,298	4,209,272	5.13%	-9.60%	0.81%	5.13%	-9.60%	0.81%	5.13%	-9.60%	0.81%			
2027	2,789,559	1,049,090	3,838,649	2,936,378	1,104,206	4,040,584	3,083,197	1,159,521	4,242,718	-0.57%	4.62%	0.79%	-0.57%	4.62%	0.79%	-0.57%	4.62%	0.79%			
2028	3,468,341	409,640	3,877,981	3,650,885	431,200	4,082,086	3,833,430	452,760	4,286,190	24.33%	-60.95%	1.02%	24.33%	-60.95%	1.02%	24.33%	-60.95%	1.02%			
2029	3,092,657	803,755	3,896,413	3,255,429	846,058	4,101,487	3,418,201	888,361	4,306,561	-10.83%	96.21%	0.48%	-10.83%	96.21%	0.48%	-10.83%	96.21%	0.48%			
2030	3,507,788	416,538	3,924,326	3,692,408	438,461	4,130,869	3,877,029	460,384	4,337,413	13.42%	-48.18%	0.72%	13.42%	-48.18%	0.72%	13.42%	-48.18%	0.72%			
2031	2,789,512	1,161,950	3,951,462	2,936,328	1,223,105	4,159,434	3,083,145	1,284,260	4,367,405	-20.48%	178.95%	0.69%	-20.48%	178.95%	0.69%	-20.48%	178.95%	0.69%			
2032	2,922,853	1,073,757	3,996,611	3,076,688	1,130,271	4,206,959	3,230,522	1,186,784	4,417,307	-4.78%	-7.59%	1.14%	-4.78%	-7.59%	1.14%	-4.78%	-7.59%	1.14%			
2033	2,911,140	1,088,211	3,999,351	3,064,358	1,145,485	4,209,843	3,217,576	1,202,759	4,420,335	-0.40%	1.35%	0.07%	-0.40%	1.35%	0.07%	-0.40%	1.35%	0.07%			
2034	3,612,217	411,637	4,023,853	3,802,333	433,302	4,235,635	3,992,450	454,967	4,447,417	24.08%	-62.17%	0.61%	24.08%	-62.17%	0.61%	24.08%	-62.17%	0.61%			
2035	3,226,073	825,613	4,051,686	3,395,866	869,067	4,264,933	3,565,659	912,520	4,478,180	-10.69%	100.57%	0.69%	-10.69%	100.57%	0.69%	-10.69%	100.57%	0.69%			
2036	2,896,391	1,197,322	4,093,714	3,048,833	1,250,339	4,300,172	3,201,275	1,323,556	4,524,631	-10.22%	45.02%	1.04%	-10.22%	45.02%	1.04%	-10.22%	45.02%	1.04%			
2037	3,022,548	1,073,736	4,096,284	3,181,630	1,130,249	4,311,878	3,340,711	1,186,761	4,527,472	4.36%	-10.32%	0.06%	4.36%	-10.32%	0.06%	4.36%	-10.32%	0.06%			
2038	2,997,074	1,120,523	4,117,597	3,154,815	1,179,498	4,334,313	3,312,555	1,238,473	4,551,028	-0.84%	4.36%	0.52%	-0.84%	4.36%	0.52%	-0.84%	4.36%	0.52%			
2039	2,999,843	1,133,847	4,133,690	3,157,729	1,193,523	4,351,252	3,315,616	1,253,199	4,568,815	0.09%	1.19%	0.39%	0.09%	1.19%	0.39%	0.09%	1.19%	0.39%			
2040	3,738,370	434,238	4,172,608	3,935,126	457,093	4,392,219	4,131,883	479,947	4,611,830	24.62%	-61.70%	0.94%	24.62%	-61.70%	0.94%	24.62%	-61.70%	0.94%			
Peak Day - BaseLoad													Annual Change								
Low			Medium			High			Low			Medium			High						
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2021	2,712	29,635	32,347	2,855	31,195	34,049	2,997	32,754	35,752	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	2,754	29,882	32,635	2,898	31,455	34,353	3,043	33,207	36,071	1.54%	0.83%	0.89%	1.54%	0.83%	0.89%	1.54%	0.83%	0.89%			
2023	1,071	31,851	32,921	1,127	33,527	34,654	1,183	35,023	36,387	-61.12%	6.59%	0.88%	-61.12%	6.59%	0.88%	-61.12%	6.59%	0.88%			
2024	1,130	28,208	29,337	1,189	29,693	30,882	1,248	31,177	32,426	5.51%	-11.44%	-10.89%	5.51%	-11.44%	-10.89%	5.51%	-11.44%	-10.89%			
2025	2,039	25,544	27,583	2,159	27,941	31,140	2,359	29,338	32,697	169.06%	-5.90%	0.84%	169.06%	-5.90%	0.84%	169.06%	-5.90%	0.84%			
2026	2,747	31,057	33,804	2,892	32,691	35,583	3,036	34,326	37,362	-9.60%	17.00%	14.27%	-9.60%	17.00%	14.27%	-9.60%	17.00%	14.27%			
2027	2,874	31,197	34,071	3,025	32,838	35,864	3,177	34,490	37,657	4.62%	0.45%	0.79%	4.62%	0.45%	0.79%	4.62%	0.45%	0.79%			
2028	1,122	33,258	34,380	1,181	35,009	36,190	1,240	36,579	37,999	-60.95%	6.61%	0.91%	-60.95%	6.61%	0.91%	-60.95%	6.61%	0.91%			
2029	2,202	32,432	34,634	2,318	34,139	36,457	2,434	35,846	38,280	96.21%	-2.48%	0.74%	96.21%	-2.48%	0.74%	96.21%	-2.48%	0.74%			
2030	1,141	29,637	30,778	1,201	31,197	32,398	1,261	32,757	34,018	-48.18%	-8.62%	-11.13%	-48.18%	-8.62%	-11.13%	-48.18%	-8.62%	-11.13%			
2031	3,183	27,805	30,989	3,351	29,269	32,620	3,519	30,732	34,251	178.95%	-6.18%	0.68%	178.95%	-6.18%	0.68%	178.95%	-6.18%	0.68%			
2032	2,942	32,463	35,405	3,097	34,129	37,268	3,251	33,880	39,132	-7.59%	16.75%	14.25%	-7.59%	16.75%	14.25%	-7.59%	16.75%	14.25%			
2033	2,981	32,648	35,629	3,138	34,366	37,505	3,295	36,085	39,380	1.35%	0.57%	0.63%	1.35%	0.57%	0.63%	1.35%	0.57%	0.63%			
2034	1,128	34,718	35,846	1,187	36,546	37,733	1,246	38,373	39,619	-62.17%	6.34%	0.61%	-62.17%	6.34%	0.61%	-62.17%	6.34%	0.61%			
2035	2,262	33,792	36,054	2,381	35,570	37,952	2,500	37,949	39,849	100.57%	-2.67%	0.58%	100.57%	-2.67%	0.58%	100.57%	-2.67%	0.58%			
2036	3,280	28,762	32,043	3,453	30,276	33,729	3,626	31,790	35,416	-45.02%	-14.88%	-11.13%	-45.02%	-14.88%	-11.13%	-45.02%	-14.88%	-11.13%			
2037	2,942	33,555	36,496	3,097	35,321	38,417	3,251	37,087	40,338	-10.32%	16.66%	13.90%	-10.32%	16.66%	13.90%	-10.32%	16.66%	13.90%			
2038	3,070	33,609	36,679	3,232	35,378	38,610	3,393	37,147	40,540	4.36%	0.16%	0.50%	4.36%	0.16%	0.50%	4.36%	0.16%	0.50%			
2039	3,106	33,748	36,855	3,270	35,524	38,794	3,433	37,301	40,734	1.19%	0.41%	0.48%	1.19%	0.41%	0.48%	1.19%	0.41%	0.48%			
2040	1,190	35,889	37,078	1,252	37,777	39,030	1,315	39,666	40,981	-61.70%	6.34%	0.61%	-61.70%	6.34%	0.61%	-61.70%	6.34%	0.61%			
Therms Usage by Class													Annual Change								
Low			Medium			High			Low			Medium			High						
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2021	997,133	2,653,715	3,650,848	1,049,614	2,793,384	3,842,998	1,102,094	2,933,053	4,035,147	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
2022	1,003,407	2,674,303	3,679,340	1,056,218	2,816,772	3,872,989	1,109,029	2,957,610	4,066,639	0.63%	0.84%	0.78%	0.63%	0.84%	0.78%	0.63%	0.84%	0.78%			
2023	1,010,423	2,700,749	3,711,171	1,063,603	2,842,893	3,906,496	1,116,783	2,985,038	4,101,821	0.70%	0.93%	0.87%	0.70%	0.93%	0.87%	0.70%	0.93%	0.87%			
2024	1,023,577	2,740,669	3,764,247	1,077,450	2,884,915	3,962,365	1,131,322	3,029,161	4,160,483	1.30%	1.48%	1.30%	1.48%	1.30%	1.48%	1.48%	1.48%	1.48%			
2025	1,025,546	2,752,358	3,777,904	1,079,522	2,897,219	3,976,741	1,133,498	3,042,080	4,175,578	0.19%	0.43%	0.36%	0.19%	0.43%	0.36%	0.19%	0.43%	0.36%			
2026	1,032,267	2,776,122	3,808,390	1,086,597	2,922,234	4,008,831	1,140,937	3,068,245	4,209,272	0.66%	0.86%	0.81%	0.66%	0.86%	0.81%	0.66%	0.86%	0.81%			
2027	1,039,152	2,799,497	3,838,649	1,093,844	2,946,839	4,040,584	1,148,537	3,094,181	4,242,718	0.67%	0.84%	0.79%	0.67%	0.84%	0.79%	0.67%	0.84%	0.79%			
2028	1,048,781	2,829,200	3,877,981	1,103,890	2,978,106	4,082,086	1,159,179	3,127,011	4,286,190	0.93%	1.06%	1.02%	0.93%	1.06%	1.02%	0.93%	1.06%	1.02%			
2029	1,051,978	2,844,434	3,896,413	1,107,346	2,994,141	4,101,487	1,162,713	3,143,848	4,306,561	0.30%	0.54%	0.48%	0.30%	0.54%	0.48%	0.30%	0.54%	0.48%			
2030	1,058,229	2,866,097	3,924,326	1,113,925	3,016,944	4,130,869	1,169,621	3,167,991	4,337,413	0.59%	0.76%	0.72%	0.59%	0.76%	0.72%	0.59%	0.76%	0.72%			
2031	1,064,377	2,887,085	3,951,462	1,120,397	3,039,037	4,159,434	1,176,417	3,190,989	4,367,405	0.58%	0.73%	0.69%	0.58%	0.73%	0.69%	0.58%	0.73%	0.69%			
2032	1,075,327	2,920,883	3,996,611	1,132,345	3,074,614	4,206,959	1,188,962	3,228,345	4,417,307	1.07%	1.17%	1.14%	1.07%	1.17%	1.14%	1.07%	1.17%	1.14%			
2033	1,075,073	2,924,278	3,999,351	1,131,656	3,078,187	4,209,843	1,188,239	3,232,097	4,420,335	-0.06%	0.12%	0.07%	-0.06%	0.12%	0.07%	-0.06%	0.12%	0.07%			
2034	1,080,441	2,943,412	4,023,853	1,137,306	3,098,329	4,235,635	1,194,717	3,25													



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

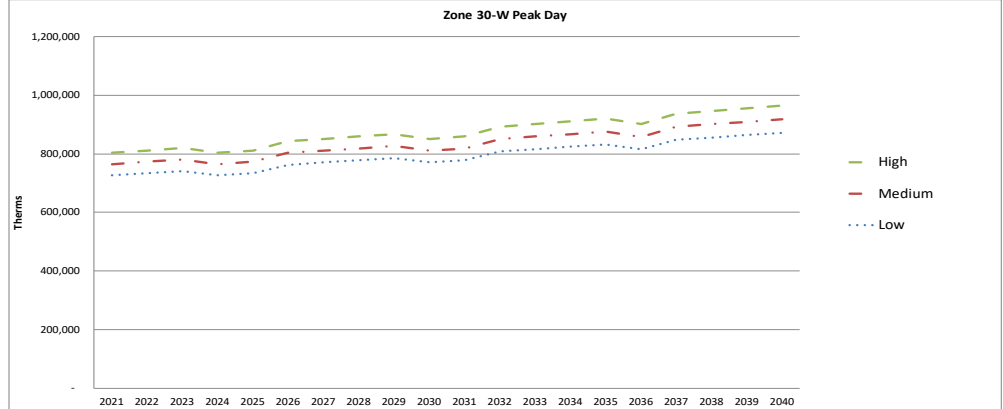
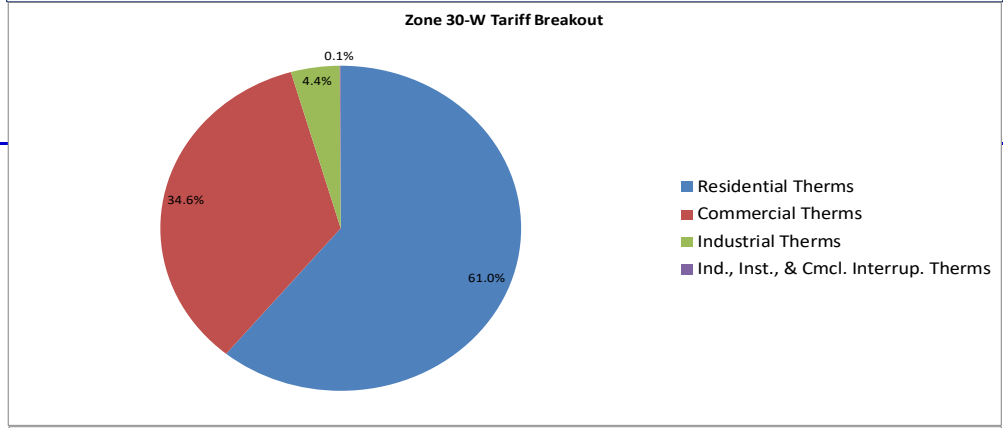
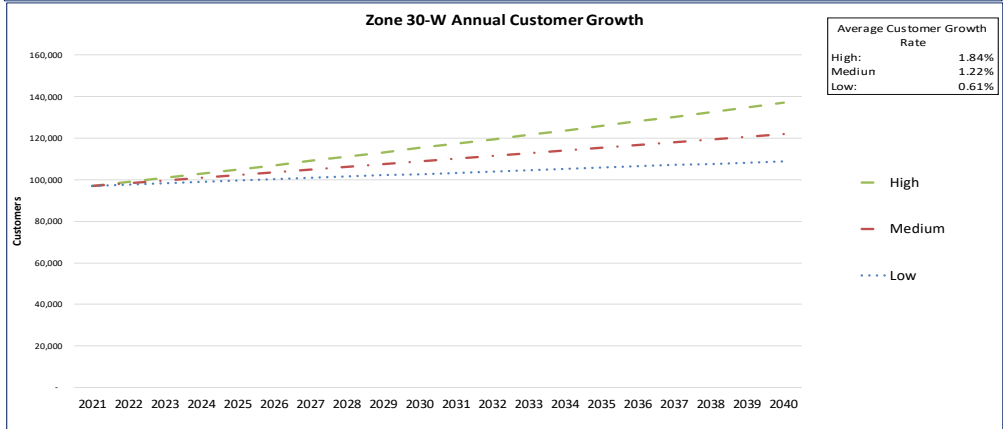
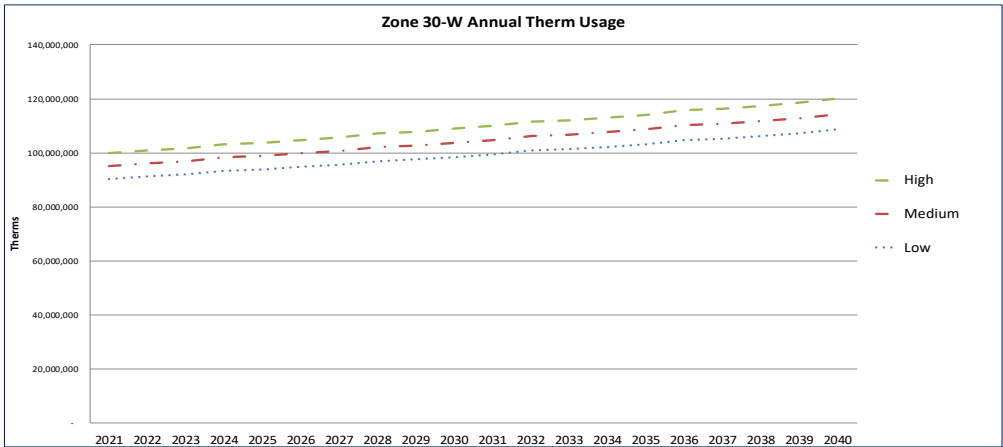
Table with multiple sections: Zone 30-S, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Thermo Usage by Class, and Customer Count Forecast. Each section contains columns for Low, Medium, and High demand scenarios, with sub-columns for Heating, BaseLoad, and Total. Rows represent years from 2021 to 2040.





Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Zone 30-W, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Therms Usage by Class, and Customer Count Forecast. Each section contains columns for Low, Medium, and High demand scenarios across various metrics like Heating, BaseLoad, Total, and Annual Change.



Cascade Natural Gas
2020 IRP Demand Forecast Summary Tables

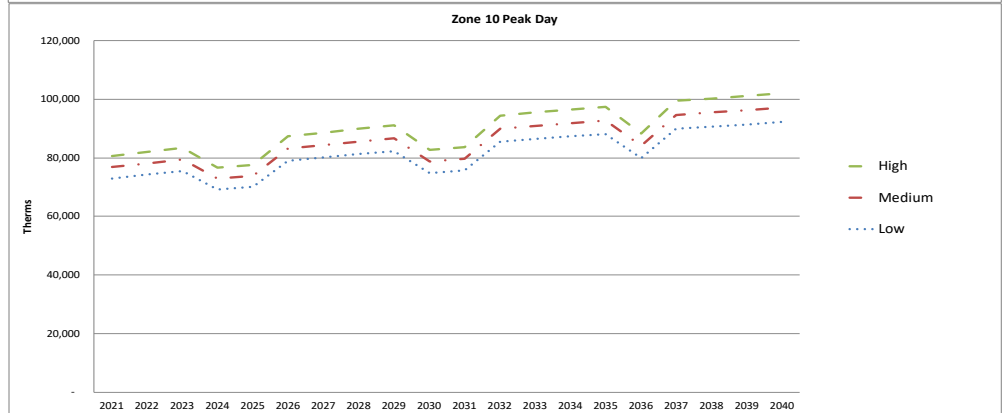
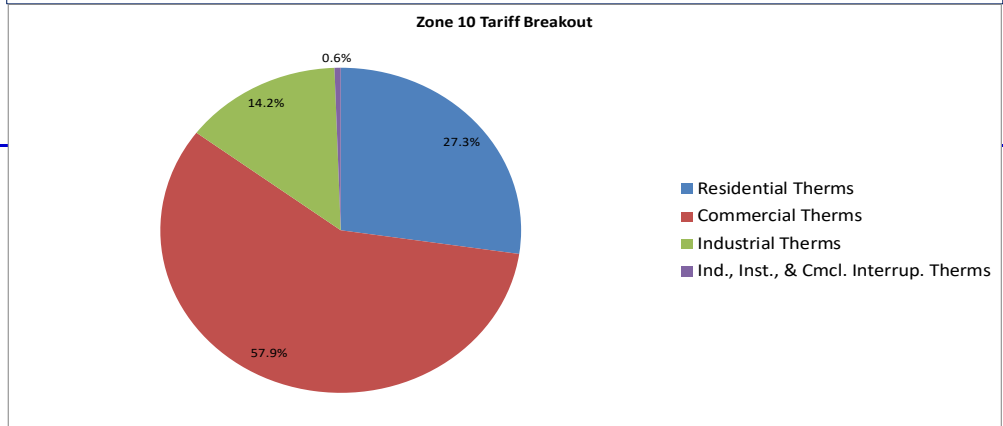
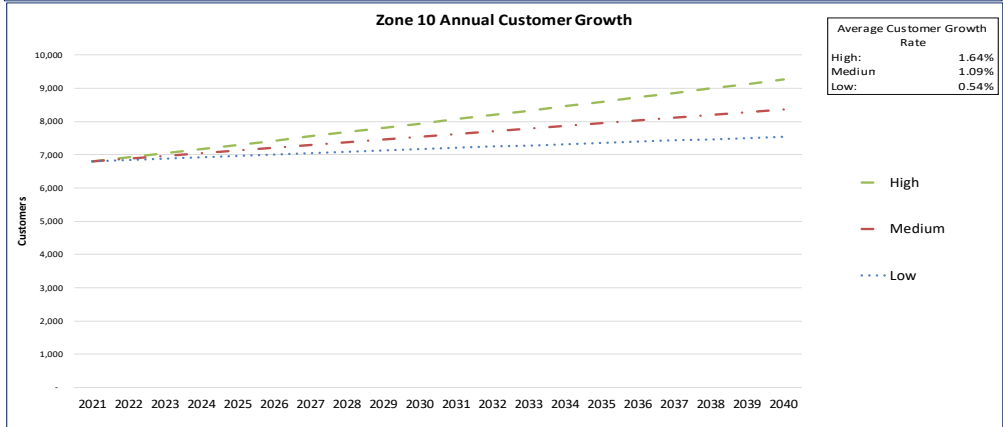
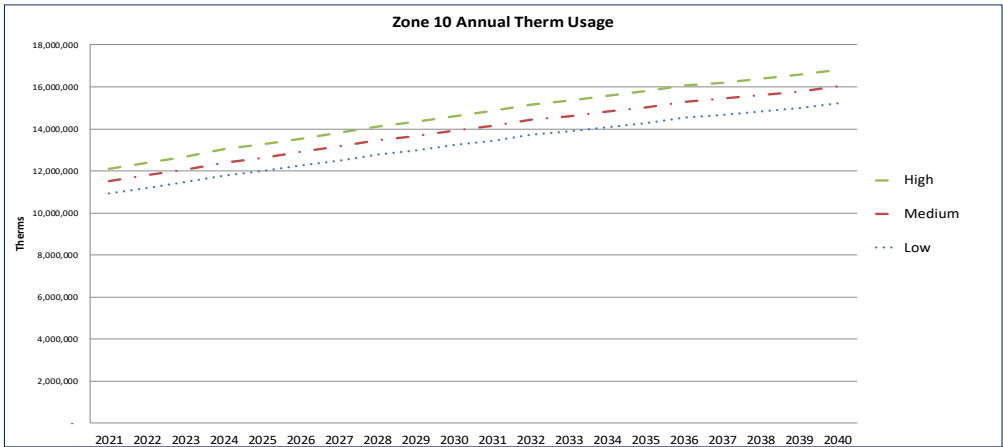
Zone 10

Table with columns for Annual Requirements (Therms) and Annual Change, including sub-columns for Low, Medium, and High demand scenarios across Heating, Base load, and Total categories.

Table with columns for Peak Day - Base load and Annual Change, including sub-columns for Low, Medium, and High demand scenarios across Daily Base load, Peak, and Total categories.

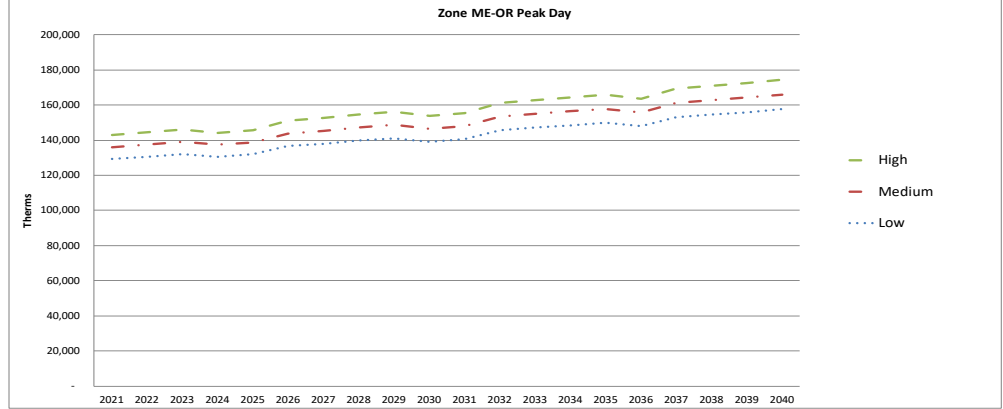
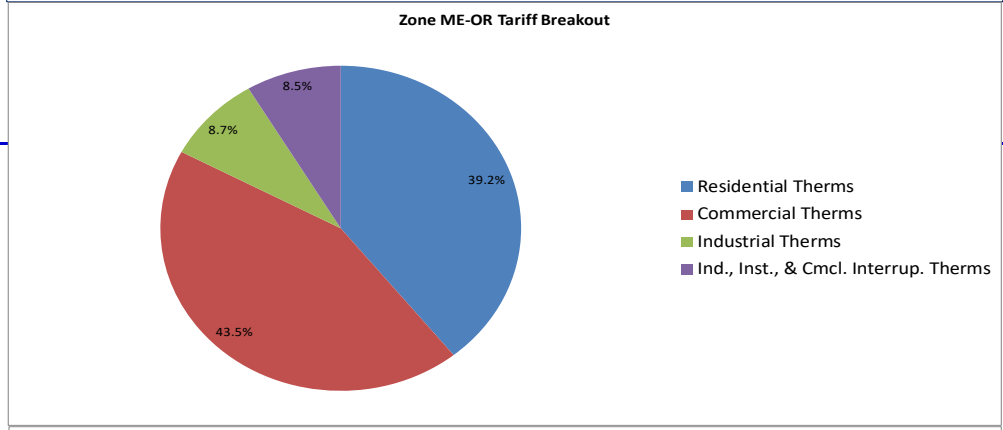
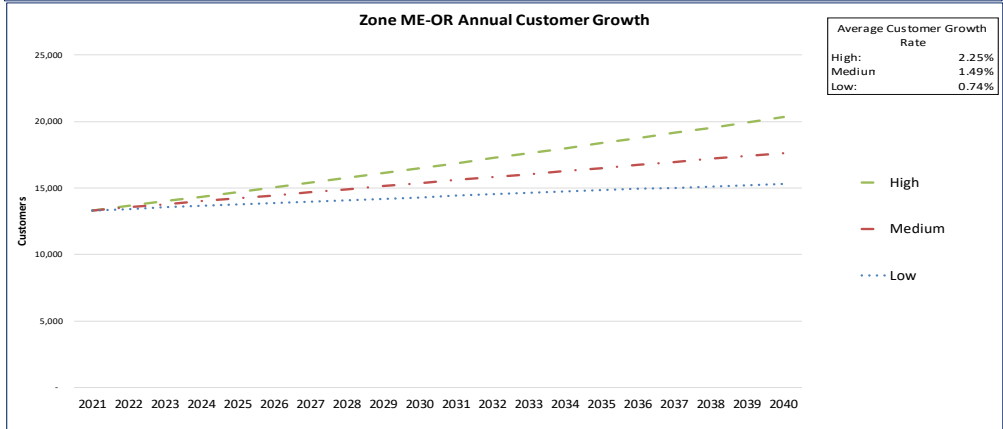
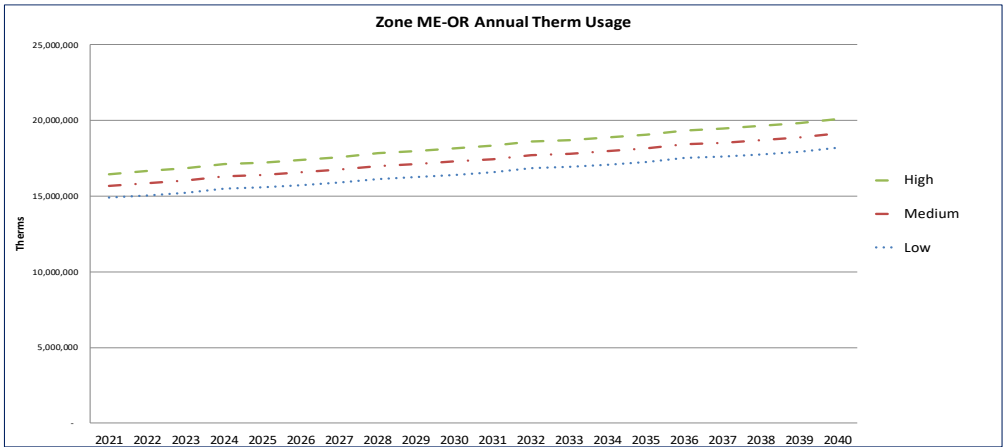
Table with columns for Therms Usage by Class and Annual Change, including sub-columns for Low, Medium, and High demand scenarios across Res, Com/Ind, and Total categories.

Table with columns for Customer Count Forecast and Annual Change, including sub-columns for Low, Medium, and High demand scenarios across Res, Com/Ind, and Total categories.



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Zone ME-OR, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Annual Change, Therm Usage by Class, Annual Change, and Customer Count Forecast, Annual Change. Each section contains a grid of data points for years 2021-2040 across various metrics.



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

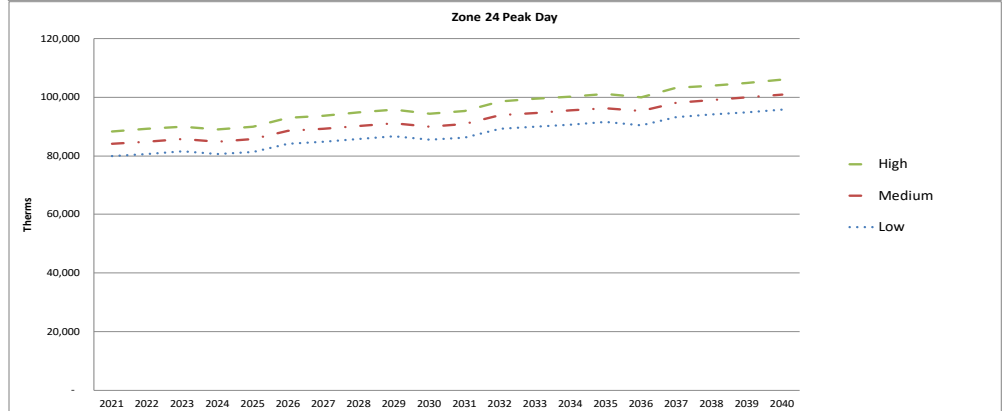
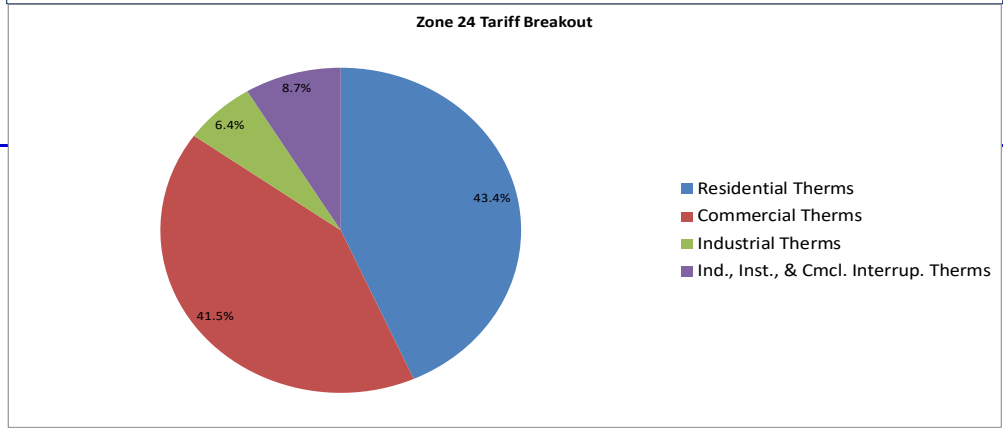
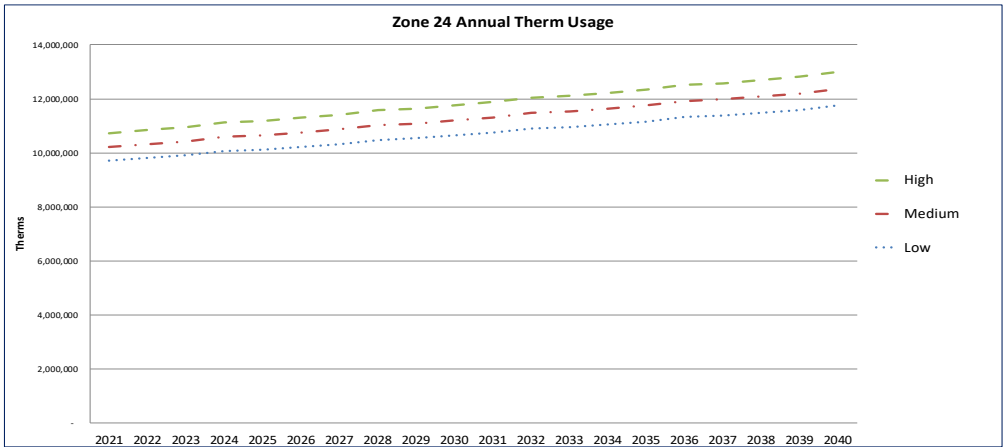
Zone 24

Table with columns for Annual Requirements (Therms) and Annual Change, categorized by Low, Medium, and High usage levels. Includes rows for Heating, BaseLoad, and Total for years 2021-2040.

Table with columns for Peak Day - BaseLoad and Annual Change, categorized by Low, Medium, and High usage levels. Includes rows for Daily BaseLoad, Peak, and Total for years 2021-2040.

Table with columns for Therms Usage by Class and Annual Change, categorized by Low, Medium, and High usage levels. Includes rows for Res, Com/Ind, and Total for years 2021-2040.

Table with columns for Customer Count Forecast and Annual Change, categorized by Low, Medium, and High usage levels. Includes rows for Res, Com/Ind, and Total for years 2021-2040.





Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

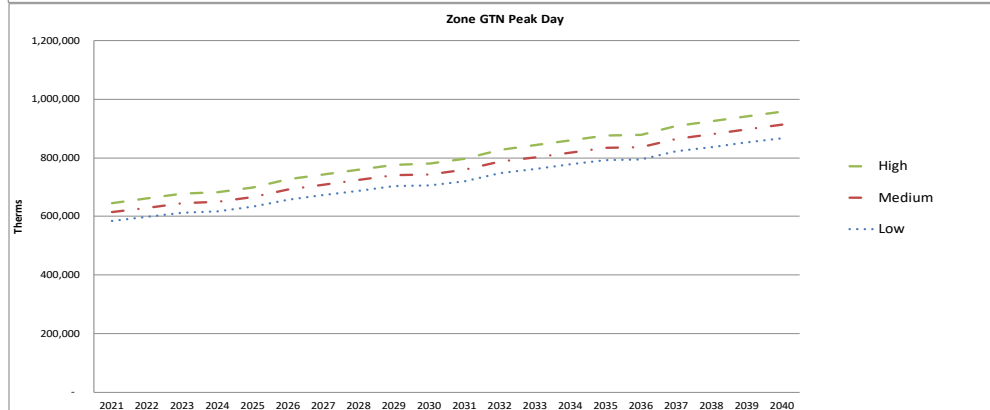
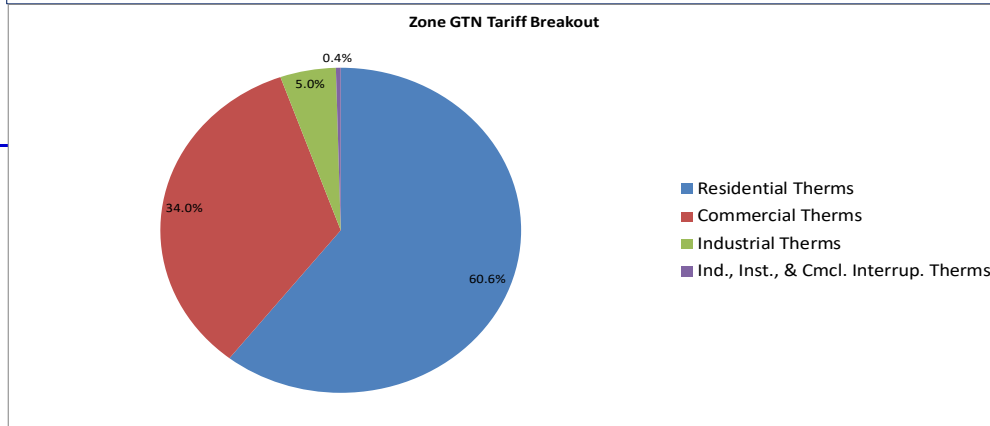
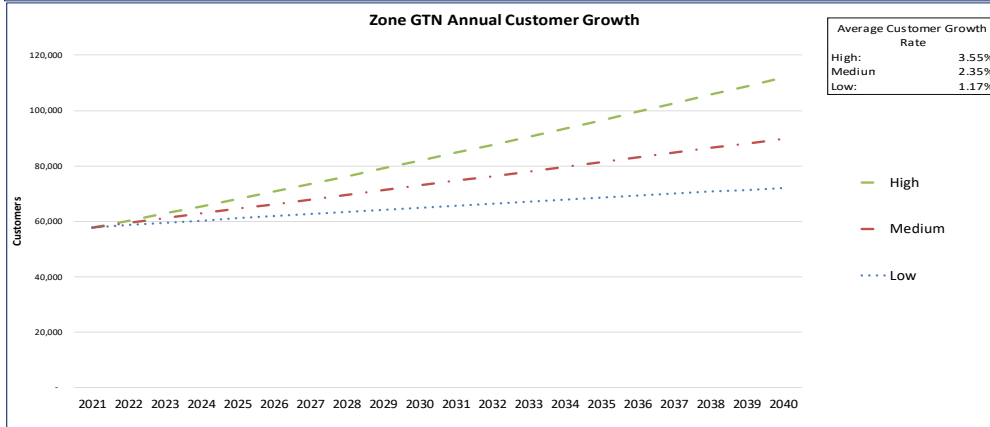
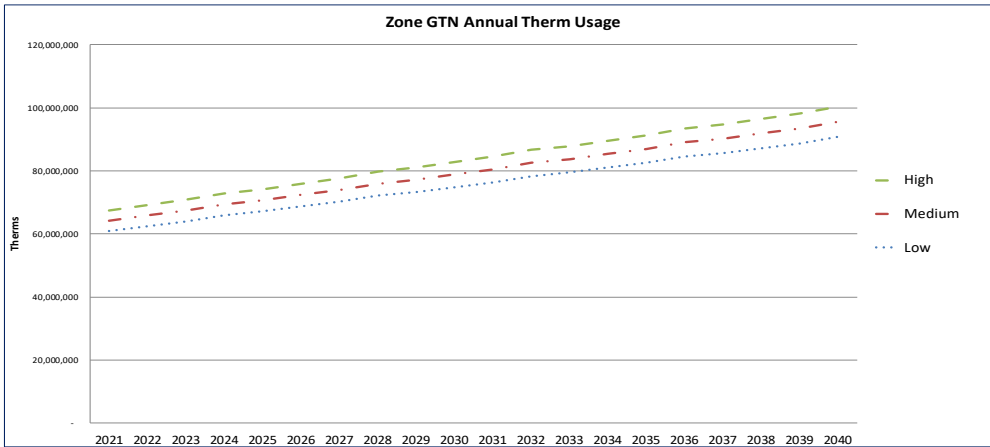
Zone GTN														
Annual Requirements (Therms)														
Low					Medium					High				
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	42,864,918	18,147,934	61,012,851	46,126,437	18,097,617	64,224,054	53,274,794	14,160,462	67,435,256	0.00%	0.00%	0.00%	0.00%	0.00%
2022	43,933,982	18,624,319	62,558,301	47,273,533	18,577,311	65,850,844	54,561,551	14,581,835	69,143,386	2.49%	2.63%	2.53%	2.49%	2.65%
2023	45,036,444	19,058,331	64,094,775	48,445,675	19,022,509	67,468,184	55,889,865	14,951,727	70,841,592	2.51%	2.33%	2.46%	2.48%	2.42%
2024	46,358,360	19,526,963	65,885,324	49,964,473	19,493,762	69,458,236	57,635,440	15,295,707	72,931,146	3.16%	2.46%	2.95%	3.14%	2.48%
2025	47,305,588	19,882,559	67,188,146	50,871,984	19,852,380	70,724,363	58,687,025	15,573,559	74,260,584	1.82%	1.82%	1.82%	1.84%	1.82%
2026	48,411,532	20,317,154	68,728,686	52,051,450	20,294,535	72,345,985	60,024,215	15,939,070	75,963,285	2.34%	2.19%	2.29%	2.33%	2.23%
2027	49,588,899	20,810,781	70,400,680	53,176,835	20,791,251	73,968,086	61,280,401	16,386,088	77,666,489	2.16%	2.43%	2.24%	2.16%	2.45%
2028	50,853,474	21,310,044	72,163,518	54,664,427	21,297,172	75,961,599	62,924,428	16,835,253	79,759,681	2.82%	2.40%	2.30%	2.40%	2.43%
2029	51,558,507	21,799,936	73,358,443	55,420,530	21,798,884	77,219,414	63,841,243	17,239,141	81,080,384	1.39%	2.30%	1.66%	1.38%	2.36%
2030	52,712,680	22,188,087	74,900,767	56,655,324	22,187,590	78,842,913	65,261,651	17,523,407	82,785,058	2.24%	1.78%	2.10%	2.23%	1.66%
2031	53,909,353	22,533,919	76,443,272	57,933,695	22,532,907	80,466,602	66,702,628	17,787,303	84,489,931	2.27%	1.56%	2.06%	2.26%	1.56%
2032	55,330,759	23,061,900	78,392,659	59,451,251	23,067,338	82,518,589	68,377,288	18,267,311	86,644,519	2.64%	2.34%	2.55%	2.62%	2.37%
2033	55,978,639	23,548,464	79,527,103	60,156,048	23,551,428	83,707,475	69,188,276	18,704,574	87,892,850	1.17%	2.09%	1.44%	1.19%	2.10%
2034	57,086,261	23,977,932	81,064,193	61,334,007	23,996,723	85,330,730	70,522,601	19,074,666	89,597,267	1.98%	1.85%	1.94%	1.96%	1.89%
2035	58,146,326	24,473,047	82,619,373	62,463,539	24,504,219	86,967,758	71,834,374	19,481,772	91,316,146	1.86%	2.06%	1.92%	1.84%	2.11%
2036	59,821,243	24,780,011	84,601,254	64,250,193	24,803,758	89,053,951	73,847,048	19,659,600	93,506,647	2.88%	1.25%	2.40%	2.86%	1.22%
2037	60,496,875	25,214,465	85,711,341	64,977,370	25,245,092	90,222,463	74,709,158	20,024,430	94,733,588	1.13%	1.75%	1.13%	1.17%	1.81%
2038	61,530,992	25,723,514	87,254,506	66,089,326	25,757,510	91,846,845	75,945,590	20,493,598	96,439,188	1.71%	2.02%	1.80%	1.71%	2.03%
2039	62,572,106	26,212,226	88,784,332	67,206,648	26,250,549	93,457,188	77,186,537	20,943,509	98,130,046	1.69%	1.90%	1.75%	1.69%	1.91%
2040	64,056,475	26,743,070	90,799,546	68,785,940	26,792,531	95,578,470	78,983,680	21,373,715	100,357,395	2.37%	2.03%	2.27%	2.35%	2.06%

Peak Day - BaseLoad														
Low					Medium					High				
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total
2021	49,720	534,024	583,744	49,583	564,885	614,468	38,796	606,395	645,191	0.00%	0.00%	0.00%	0.00%	0.00%
2022	51,026	547,565	598,590	50,897	579,198	630,095	39,950	621,649	661,600	2.63%	2.54%	2.54%	2.65%	2.53%
2023	52,215	561,196	613,410	52,116	593,578	645,695	40,964	637,016	677,980	2.33%	2.49%	2.48%	2.40%	2.48%
2024	53,499	564,739	618,238	53,408	597,369	650,777	41,906	644,409	683,315	2.46%	0.63%	0.79%	2.48%	0.49%
2025	54,763	575,842	623,605	54,390	611,760	666,159	42,667	656,790	698,457	1.82%	2.41%	2.36%	1.84%	2.40%
2026	55,669	602,458	658,121	55,601	637,158	692,759	43,669	683,729	727,397	2.19%	4.16%	3.99%	2.23%	4.15%
2027	57,016	615,965	672,981	56,962	651,438	708,401	44,893	698,927	743,821	2.43%	2.24%	2.26%	2.45%	2.24%
2028	58,384	629,636	688,020	58,348	665,883	724,232	46,124	714,319	760,443	2.40%	2.22%	2.23%	2.43%	2.22%
2029	59,726	643,166	702,891	59,723	680,163	739,886	47,231	729,650	776,880	2.30%	1.52%	1.26%	2.36%	1.24%
2030	60,789	645,327	706,117	60,788	682,493	743,281	48,009	732,635	780,445	1.78%	0.34%	0.46%	1.78%	0.34%
2031	61,737	659,006	720,743	61,734	696,943	758,677	48,732	747,878	796,611	1.56%	2.12%	2.07%	1.56%	2.12%
2032	63,183	684,514	747,697	63,198	723,851	787,049	50,047	767,355	826,402	2.34%	3.87%	3.74%	2.37%	3.86%
2033	64,503	698,072	762,755	64,524	738,186	802,710	51,245	791,600	842,846	2.09%	1.98%	1.99%	2.10%	1.98%
2034	65,693	711,756	777,449	65,744	752,623	818,367	52,259	807,026	859,286	1.85%	1.96%	1.95%	1.89%	1.95%
2035	67,049	725,273	792,322	67,135	766,888	834,023	53,375	822,350	875,724	2.06%	1.90%	1.91%	1.90%	1.91%
2036	67,890	726,377	794,268	67,956	768,116	836,071	53,862	824,013	877,875	1.25%	0.15%	0.25%	1.22%	0.16%
2037	69,081	753,193	822,274	69,165	796,386	865,551	54,861	854,035	908,829	1.75%	3.69%	3.53%	1.78%	3.68%
2038	70,475	766,678	837,154	70,569	810,646	881,214	56,147	869,128	925,275	2.02%	1.79%	1.81%	2.03%	1.79%
2039	71,814	780,220	852,034	71,919	824,959	896,878	57,379	884,343	941,722	1.90%	1.77%	1.78%	1.91%	1.77%
2040	73,269	793,859	867,127	73,404	839,361	912,766	58,558	899,846	958,044	2.03%	1.75%	1.77%	2.06%	1.75%

Therms Usage by Class														
Low					Medium					High				
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	36,925,632	24,087,219	61,012,851	38,869,086	25,354,967	64,224,054	40,812,540	26,622,716	67,435,256	0.00%	0.00%	0.00%	0.00%	0.00%
2022	38,060,802	24,497,499	62,558,301	40,064,001	25,786,842	65,850,844	42,067,202	27,076,184	69,143,386	3.07%	1.70%	2.53%	3.07%	2.53%
2023	39,195,810	24,899,866	64,094,775	41,258,746	26,209,438	67,468,184	43,321,682	27,519,910	70,841,592	2.98%	1.64%	2.46%	2.98%	1.64%
2024	40,500,500	25,438,823	65,939,324	42,684,737	26,773,498	69,458,236	44,818,974	28,112,173	72,931,146	3.46%	2.15%	2.95%	3.46%	2.15%
2025	41,477,924	25,710,222	67,188,146	43,660,971	27,063,392	70,724,363	45,844,022	28,416,562	74,260,584	2.29%	1.08%	1.82%	2.29%	1.08%
2026	42,615,293	26,113,393	68,728,686	44,858,202	27,487,782	72,345,985	47,101,114	28,862,171	75,963,285	2.74%	1.57%	2.29%	2.74%	1.57%
2027	43,752,894	26,516,786	70,269,680	46,055,680	27,912,406	73,968,086	48,358,463	29,308,026	77,666,489	2.67%	1.54%	2.24%	2.67%	1.54%
2028	45,115,697	27,047,821	72,163,518	47,490,209	28,471,390	75,961,599	49,864,720	29,894,961	79,759,681	3.11%	2.00%	2.70%	3.11%	2.00%
2029	46,032,482	27,325,961	73,358,443	48,455,244	28,764,170	77,219,414	50,878,005	30,202,379	81,080,384	2.03%	1.03%	1.66%	2.03%	1.03%
2030	47,170,813	27,729,954	74,900,767	49,653,488	29,189,425	78,842,913	52,136,161	30,648,897	82,785,058	2.47%	1.48%	2.10%	2.47%	1.48%
2031	48,309,208	28,134,063	76,443,272	50,851,798	29,614,804	80,466,602	53,394,387	31,095,544	84,489,931	2.41%	1.46%	2.06%	2.41%	1.46%
2032	49,709,022	28,683,636	78,392,659	52,235,288	30,193,302	82,518,589	54,941,552	31,702,967	86,644,519	2.90%	1.95%	2.55%	2.90%	1.95%
2033	50,583,352	28,938,751	79,527,103	53,245,633	30,461,843	83,707,475	55,907,916	31,984,935	87,892,850	1.76%	0.89%	1.44%	1.76%	0.89%
2034	51,721,499	29,342,695	81,064,193	54,443,683	30,887,047	85,330,730	57,165,868	32,431,399	89,597,267	2.25%	1.40%	1.94%	2.25%	1.40%
2035	52,867,103	29,752,270	82,619,373	55,649,579	31,318,179	86,967,758	58,432,058	32,884,088	91,316,146	2.21%	1.40%	1.92%	2.21%	1.40%
2036	54,291,132	30,110,122	84,601,254	57,148,559	31,905,392	89,053,951	60,005,661	33,501,662	93,506,647	2.69%	1.87%	2.40%	2.69%	1.87%
2037	55,148,794	30,562,546	85,711,341	58,051,362	32,171,101	90,222,463	60,953,932	33,779,656	94,733,588	1.58%	0.83%	1.31%	1.58%	0.83%
2038	56,287,769	30,966,737	87,254,506	59,250,280	32,596,565	91,846,845	62,212,796							



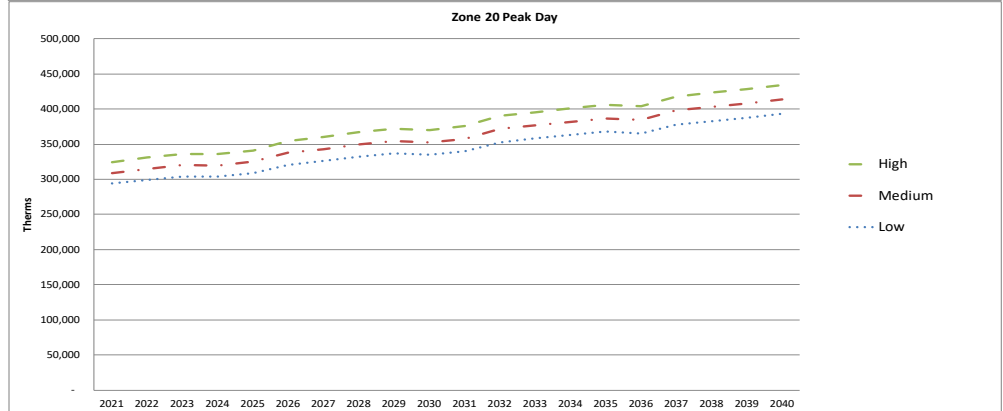
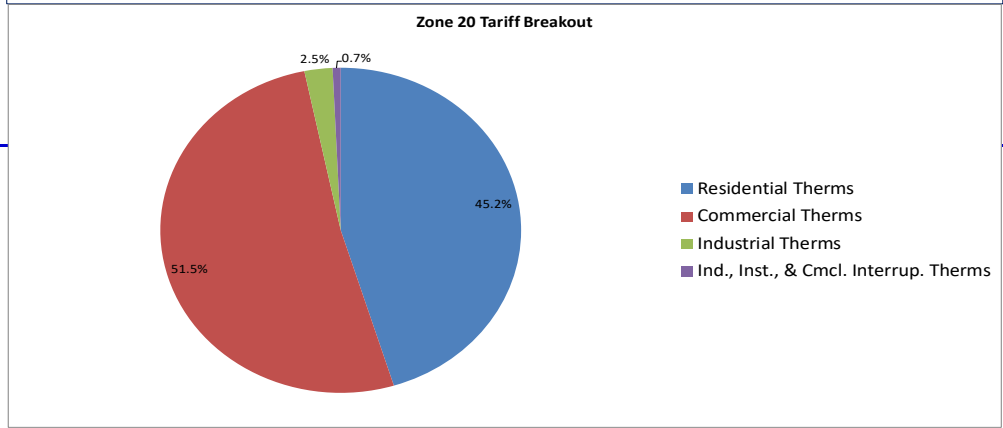
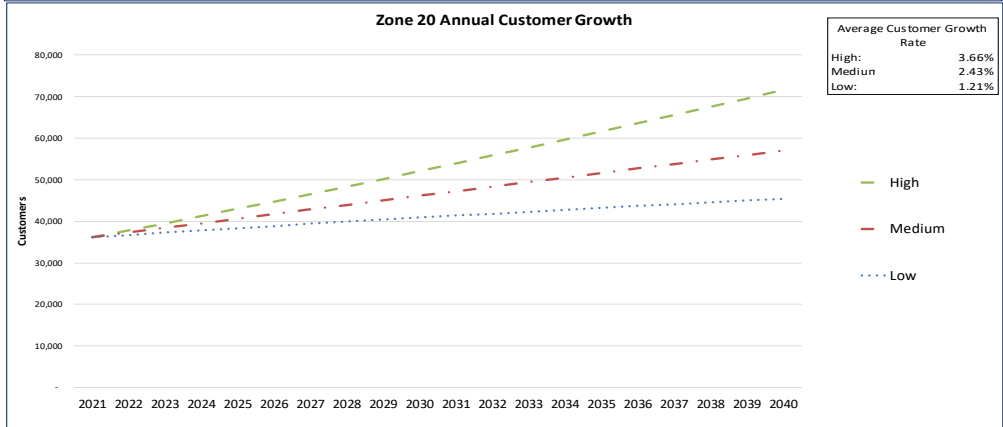
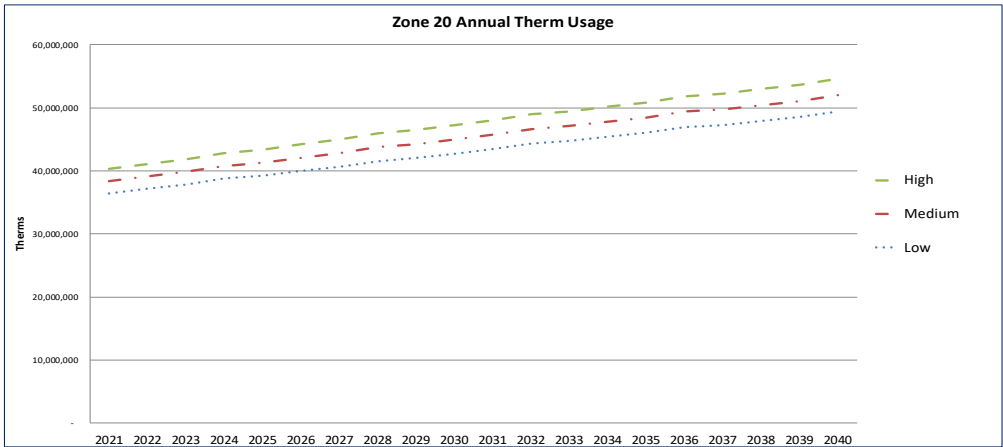
Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Zone 20 Annual Requirements (Therms) table with columns for Low, Medium, High and Annual Change. Rows include Heating, BaseLoad, and Total for years 2021-2040.

Peak Day - BaseLoad table with columns for Low, Medium, High and Annual Change. Rows include Daily BaseLoad, Peak, and Total for years 2021-2040.

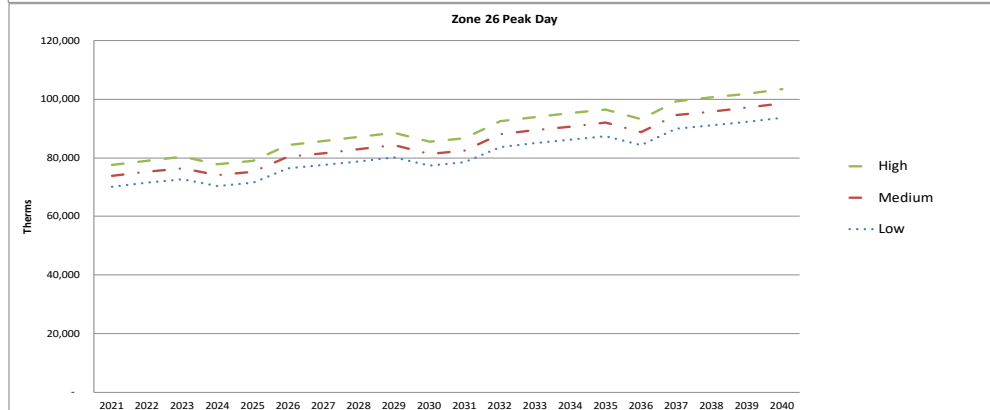
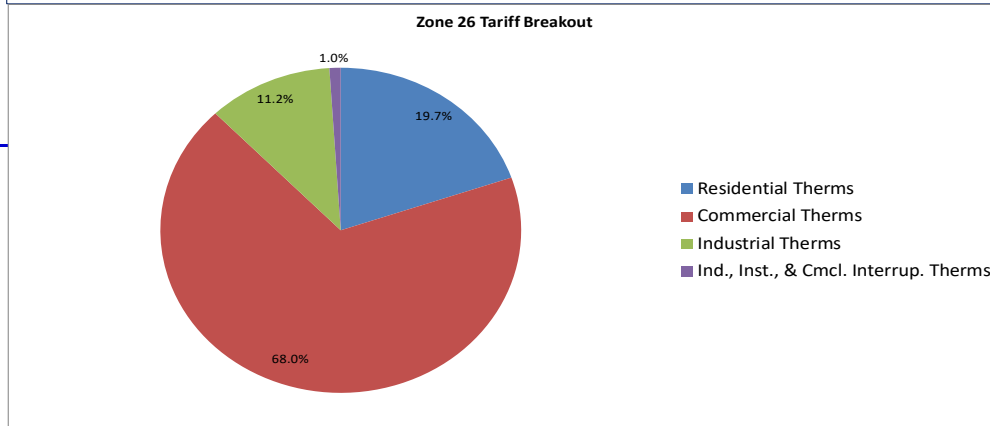
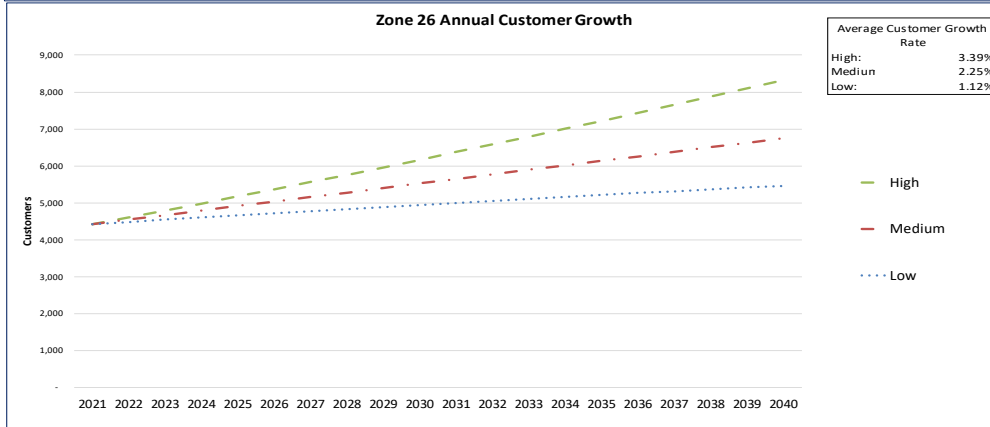
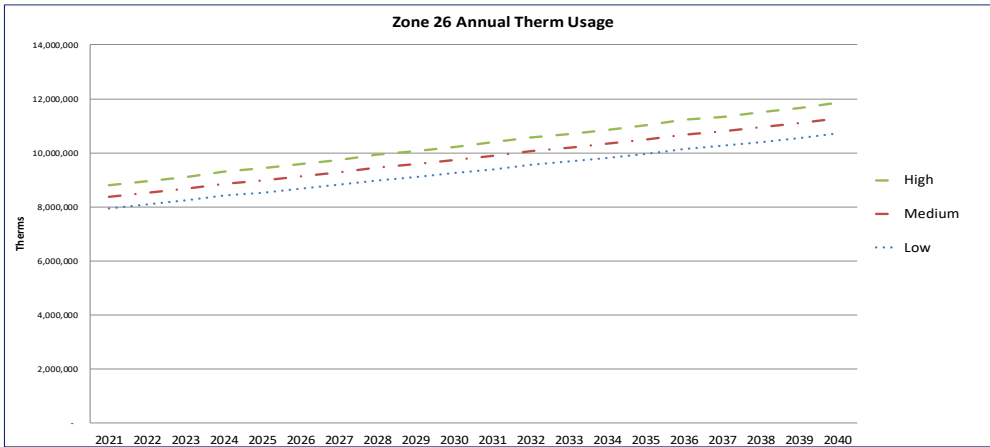
Therms Usage by Class table with columns for Low, Medium, High and Annual Change. Rows include Res, Com/Ind, and Total for years 2021-2040.

Customer Count Forecast table with columns for Low, Medium, High and Annual Change. Rows include Res, Com/Ind, and Total for years 2021-2040.

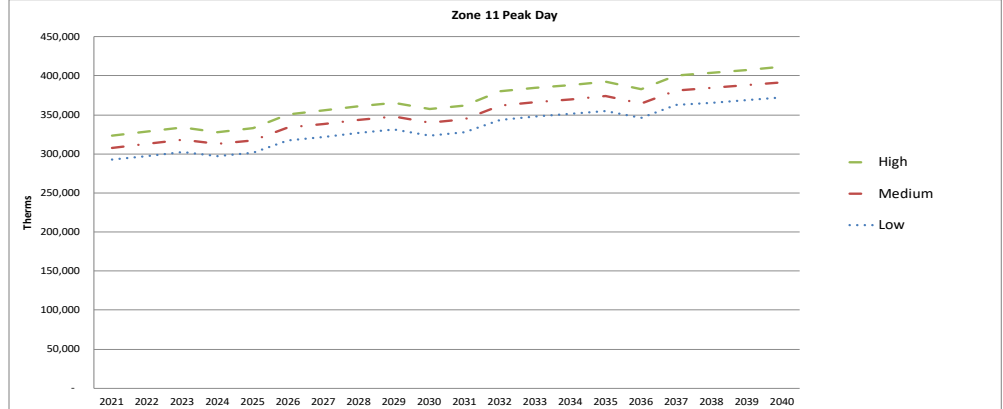
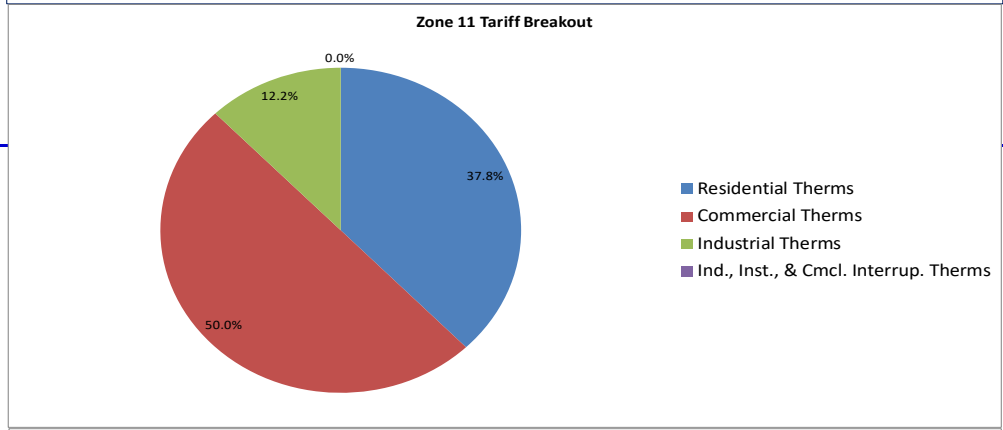
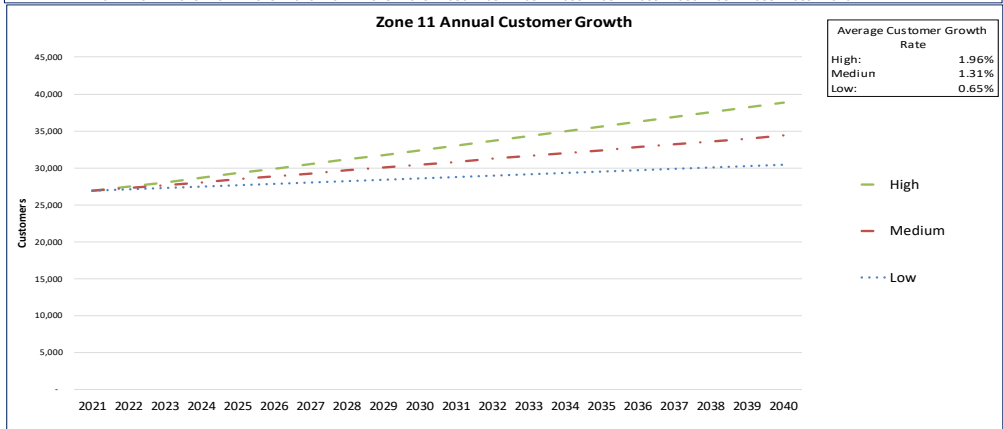
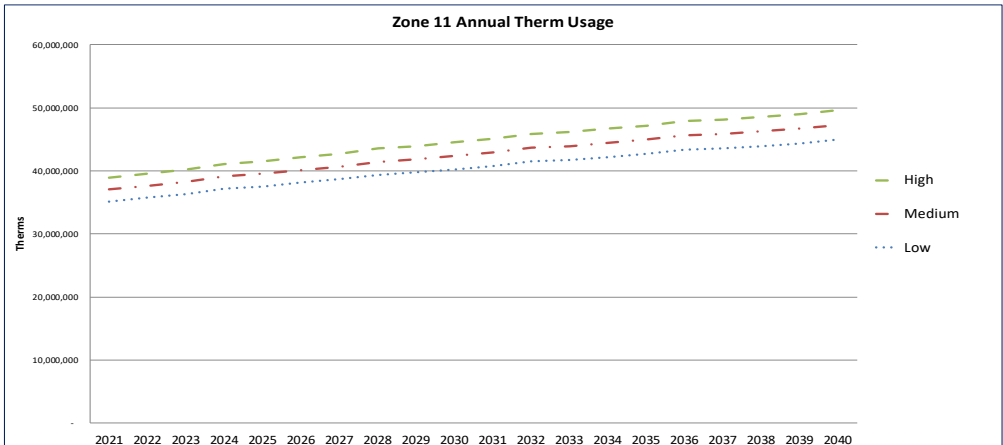


Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

Table with multiple sections: Zone 26, Annual Requirements (Therms), Annual Change, Peak Day - BaseLoad, Therms Usage by Class, and Customer Count Forecast. Each section contains columns for Low, Medium, and High scenarios across various metrics like Heating, BaseLoad, Total, and Annual Change.









Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

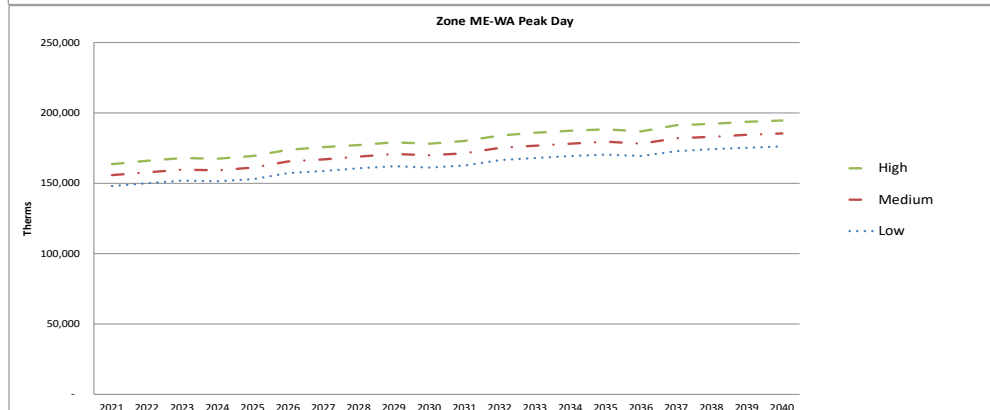
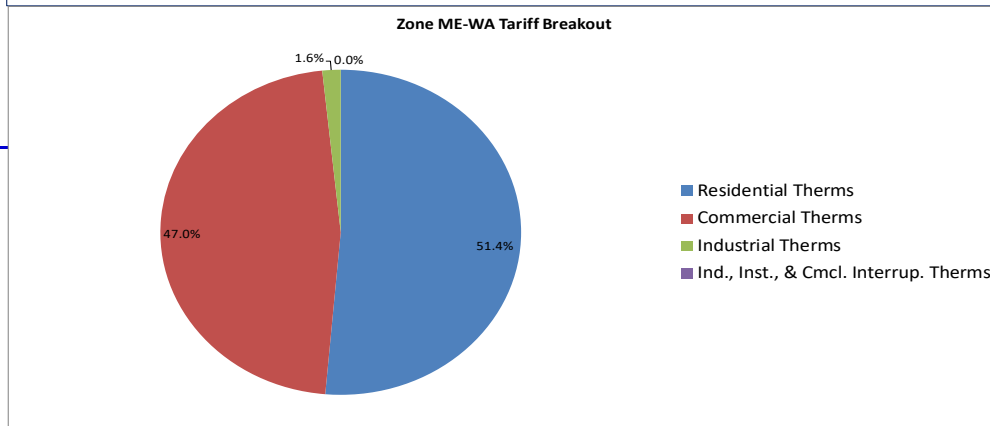
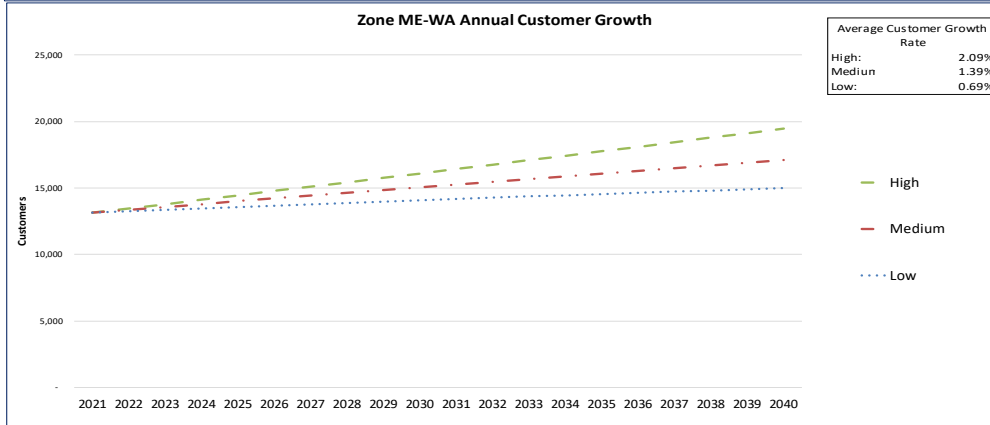
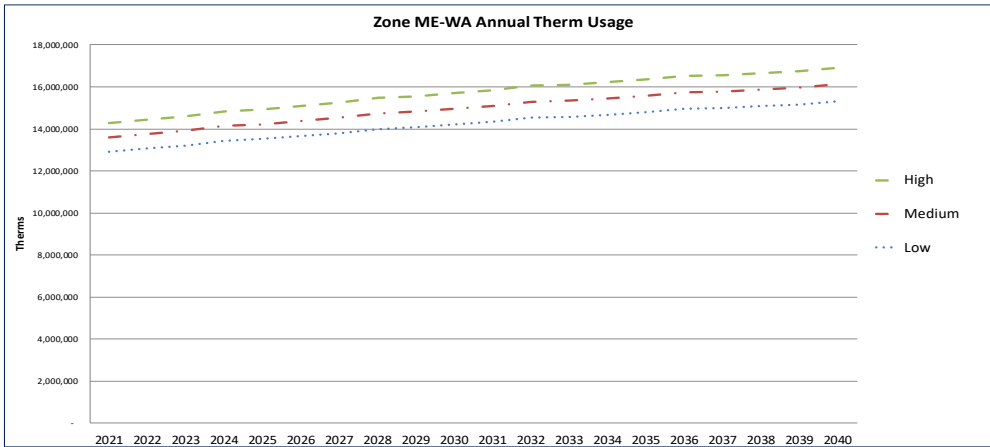
Zone ME-WA																	
Annual Requirements (Therms)									Annual Change								
Low			Medium			High			Low			Medium			High		
Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total	Heating	BaseLoad	Total
2021	9,035,028	3,869,929	12,904,956	9,510,555	4,073,609	13,584,164	9,986,083	4,277,289	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	9,175,350	3,894,055	13,069,404	9,658,262	4,099,005	13,757,268	10,141,176	4,303,956	14,445,131	1.55%	0.62%	1.27%	1.55%	0.62%	1.27%	1.55%	0.62%
2023	9,283,802	3,934,398	13,218,200	9,772,423	4,141,471	13,913,894	10,261,044	4,348,545	14,609,589	1.18%	1.04%	1.14%	1.18%	1.04%	1.14%	1.18%	1.04%
2024	9,419,571	4,007,918	13,427,490	9,915,339	4,218,861	14,134,200	10,411,106	4,429,804	14,840,910	1.46%	1.87%	1.58%	1.46%	1.87%	1.58%	1.46%	1.87%
2025	9,461,753	4,052,442	13,514,195	9,959,529	4,265,728	14,225,257	10,457,728	4,479,014	14,936,742	0.45%	1.11%	0.65%	0.45%	1.11%	0.65%	0.45%	1.11%
2026	9,565,366	4,097,564	13,662,931	10,068,806	4,313,226	14,382,032	10,572,247	4,528,887	15,101,134	1.10%	1.11%	1.10%	1.10%	1.11%	1.10%	1.11%	1.10%
2027	9,691,567	4,114,049	13,805,616	10,201,560	4,330,578	14,532,137	10,711,732	4,547,107	15,258,838	1.32%	0.40%	1.04%	1.32%	0.40%	1.04%	1.32%	0.40%
2028	9,874,195	4,126,572	14,000,767	10,393,890	4,343,759	14,737,649	10,913,584	4,560,948	15,474,532	1.88%	0.30%	1.41%	1.88%	0.30%	1.41%	1.88%	0.30%
2029	9,896,433	4,182,407	14,078,840	10,417,298	4,402,534	14,819,832	10,938,163	4,622,661	15,560,824	0.23%	1.35%	0.56%	0.23%	1.35%	0.56%	0.23%	1.35%
2030	9,973,312	4,237,771	14,211,083	10,498,224	4,460,811	14,959,034	11,023,135	4,683,852	15,706,986	0.78%	1.32%	0.94%	0.78%	1.32%	0.94%	0.78%	1.32%
2031	10,061,286	4,277,231	14,338,517	10,590,828	4,502,349	15,093,176	11,120,369	4,727,466	15,847,835	0.88%	0.93%	0.90%	0.88%	0.93%	0.90%	0.88%	0.93%
2032	10,235,282	4,288,471	14,523,753	10,773,981	4,514,179	15,288,161	11,312,680	4,739,889	16,052,569	1.73%	0.26%	1.29%	1.73%	0.26%	1.29%	1.73%	0.26%
2033	10,276,308	4,296,287	14,572,595	10,817,166	4,522,408	15,339,573	11,358,024	4,748,528	16,106,552	0.40%	0.18%	0.34%	0.40%	0.18%	0.34%	0.40%	0.18%
2034	10,354,975	4,325,729	14,680,704	10,899,974	4,553,399	15,453,372	11,444,972	4,781,069	16,226,041	0.77%	0.69%	0.74%	0.77%	0.69%	0.74%	0.77%	0.69%
2035	10,413,679	4,374,618	14,788,297	10,961,767	4,604,862	15,566,629	11,509,856	4,835,104	16,344,960	0.57%	1.13%	0.73%	0.57%	1.13%	0.73%	0.57%	1.13%
2036	10,529,753	4,424,666	14,954,419	11,083,950	4,657,544	15,741,493	11,638,147	4,890,421	16,528,668	1.11%	1.14%	1.12%	1.11%	1.14%	1.12%	1.11%	1.14%
2037	10,528,314	4,455,474	14,983,788	11,082,436	4,689,972	15,772,408	11,636,558	4,924,470	16,561,028	-0.01%	0.70%	0.20%	-0.01%	0.70%	0.20%	-0.01%	0.70%
2038	10,619,720	4,455,866	15,075,587	11,178,654	4,690,385	15,869,039	11,737,586	4,924,405	16,662,490	0.87%	0.01%	0.61%	0.87%	0.01%	0.61%	0.87%	0.01%
2039	10,705,106	4,454,361	15,159,467	11,268,534	4,688,800	15,957,334	11,831,960	4,923,240	16,755,201	0.80%	-0.03%	0.56%	0.80%	-0.03%	0.56%	0.80%	-0.03%
2040	10,814,137	4,495,724	15,309,862	11,383,303	4,732,341	16,115,644	11,952,468	4,968,958	16,921,426	1.02%	0.93%	0.99%	1.02%	0.93%	0.99%	1.02%	0.93%

Peak Day - BaseLoad																	
Low			Medium			High			Low			Medium			High		
Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Daily BaseLoad	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total
2021	10,603	137,469	148,072	11,161	144,704	155,865	11,719	151,940	163,658	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	10,669	139,404	150,073	11,230	146,741	157,971	11,912	154,078	165,870	0.62%	1.41%	1.35%	0.62%	1.41%	1.35%	0.62%	1.41%
2023	10,779	141,083	151,862	11,346	148,509	159,855	11,914	155,934	167,848	1.04%	1.20%	1.19%	1.04%	1.20%	1.19%	1.04%	1.20%
2024	10,981	140,370	151,350	11,559	147,757	159,316	12,136	155,145	167,282	1.87%	-0.51%	-0.34%	1.87%	-0.51%	-0.34%	1.87%	-0.51%
2025	11,083	141,896	151,989	11,687	149,459	161,146	12,271	156,233	169,203	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%	1.15%
2026	11,226	145,920	157,146	11,817	153,600	165,417	12,408	161,280	173,688	1.11%	2.77%	2.65%	1.11%	2.77%	2.65%	1.11%	2.77%
2027	11,271	147,591	158,862	11,865	155,359	167,224	12,458	163,127	175,585	0.40%	1.15%	1.09%	0.40%	1.15%	1.09%	0.40%	1.15%
2028	11,306	149,172	160,477	11,901	157,023	168,923	12,496	164,874	177,370	0.30%	1.07%	1.02%	0.30%	1.07%	1.02%	0.30%	1.07%
2029	11,459	150,654	162,112	12,062	158,583	170,644	12,665	166,512	179,177	1.35%	0.99%	1.02%	1.35%	0.99%	1.02%	1.35%	0.99%
2030	11,610	149,710	161,321	12,221	157,590	169,811	12,832	165,659	178,302	1.32%	-0.63%	-0.49%	1.32%	-0.63%	-0.49%	1.32%	-0.63%
2031	11,718	151,115	162,834	12,335	159,069	171,404	12,952	167,022	179,974	0.93%	0.94%	0.94%	0.93%	0.94%	0.94%	0.93%	0.94%
2032	11,749	154,902	166,652	12,368	163,055	175,423	12,986	171,208	184,194	0.26%	2.51%	2.34%	0.26%	2.51%	2.34%	0.26%	2.51%
2033	11,711	156,279	168,050	12,390	164,505	176,895	13,010	172,730	185,740	0.18%	0.89%	0.84%	0.18%	0.89%	0.84%	0.18%	0.89%
2034	11,851	157,503	169,354	12,475	165,792	178,267	13,099	174,082	187,181	0.69%	0.88%	0.78%	0.69%	0.88%	0.78%	0.69%	0.88%
2035	11,985	158,637	170,622	12,616	166,986	179,602	13,247	175,335	188,582	1.13%	0.72%	0.75%	1.13%	0.72%	0.75%	1.13%	0.72%
2036	12,122	157,167	169,290	12,760	165,439	178,200	13,398	173,711	187,110	1.14%	-0.93%	-0.78%	1.14%	-0.93%	-0.78%	1.14%	-0.93%
2037	12,207	160,738	172,944	12,849	169,197	182,047	13,492	177,657	191,149	0.70%	2.27%	2.16%	0.70%	2.27%	2.16%	0.70%	2.27%
2038	12,208	161,845	174,053	12,850	170,364	183,214	13,493	178,882	192,375	0.01%	0.69%	0.64%	0.01%	0.69%	0.64%	0.01%	0.69%
2039	12,204	162,894	175,097	12,846	171,467	184,313	13,488	180,040	193,529	-0.03%	0.65%	0.60%	-0.03%	0.65%	0.60%	-0.03%	0.65%
2040	12,317	163,736	176,054	12,965	172,354	185,319	13,614	180,972	194,585	0.93%	0.52%	0.55%	0.93%	0.52%	0.55%	0.93%	0.52%

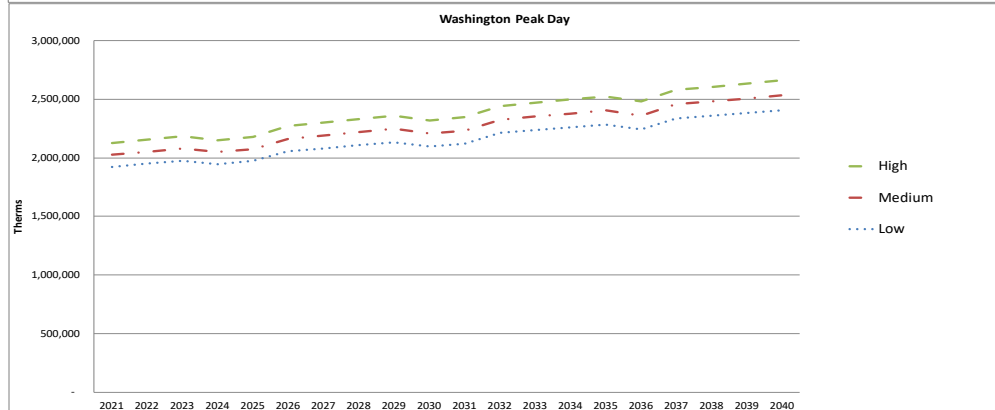
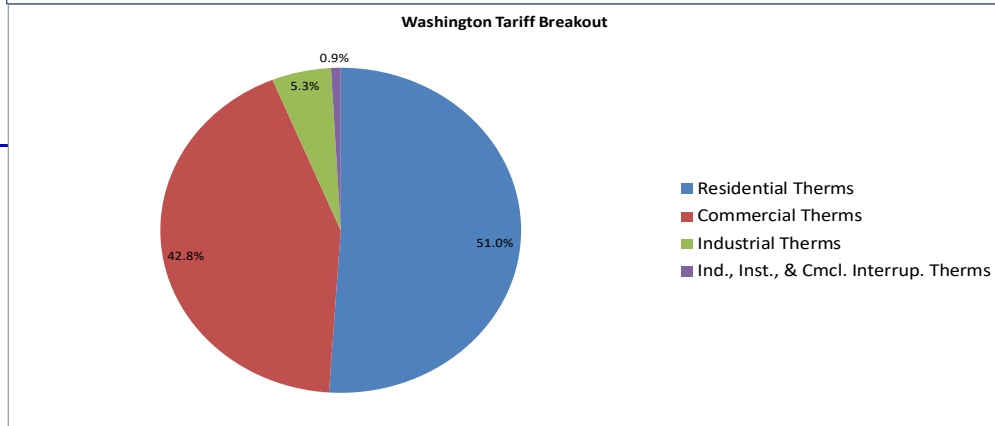
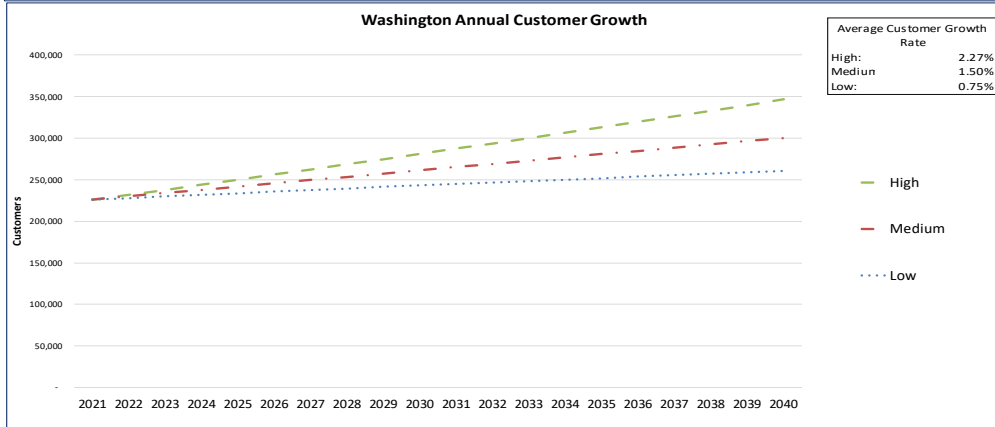
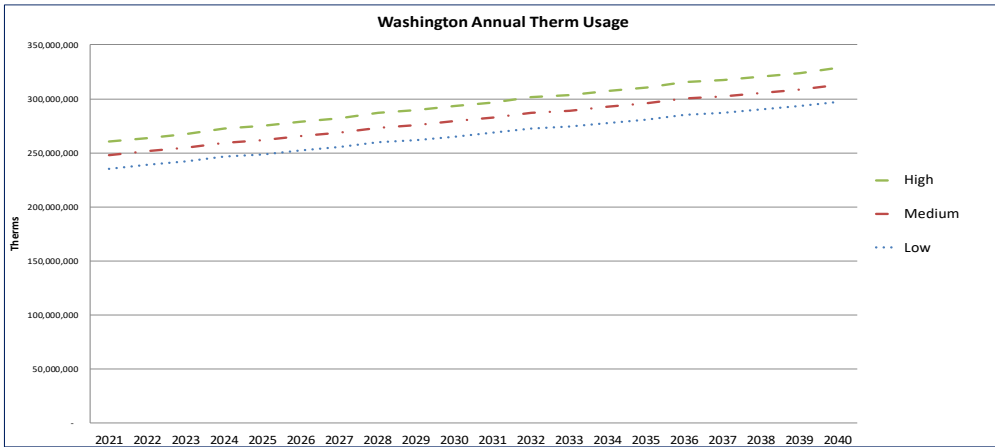
  

Therms Usage by Class																	
Low			Medium			High			Low			Medium			High		
Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total	Res	Com/Ind	Total
2021	6,650,238	6,254,718	12,904,956	7,000,250	6,583,913	13,584,164	7,350,263	6,913,109	14,263,372	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	6,748,586	6,320,819	13,069,404	7,103,774	6,653,494	13,757,268	7,458,963	6,986,168	14,445,131	1.48%	1.06%	1.27%	1.48%	1.06%	1.27%	1.48%	1.06%
2023	6,837,885	6,380,315	13,218,200	7,197,773	6,716,121	13,913,894	7,557,662	7,051,927	14,609,589	1.32%	0.94%	1.14%	1.32%	0.94%	1.14%	1.32%	0.94%
2024	6,959,544	6,467,945	13,427,490	7,325,836	6,808,364	14,134,200	7,692,128	7,148,782	14,840,910	1.78%	1.37%	1.58%	1.78%	1.37%	1.58%	1.78%	1.37%
2025	7,015,378	6,498,817	13,514,195	7,384,609	6,840,860	14,225,257	7,753,839	7,182,903	14,936,742	0.80%	0.48%	0.65%	0.80%	0.48%	0.65%	0.80%	0.48%
2026	7,104,680	6,558,251	13,662,931	7,478,611	6,903,422	14,382,032	7,852,541	7,248,599	15,101,134	1.27%	0.91%	1.10%	1.27%	0.91%	1.10%	1.27%	0.91%
2027	7,190,522	6,615,094	13,805,616	7,568,970	6,963,257	14,532,227	7,947,419	7,311,420	15,258,838	1.21%	0.87%	1.04%	1.21%	0.87%	1.04%	1.21%	0.87%
2028	7,304,694	6,696,073	14,000,767	7,689,151	7,048,497	14,737,649	8,073,609	7,400,922	15,474,532	1.59%	1.22%	1.41%	1.59%	1.22%	1.41%	1.59%	1.22%
2029	7,355,195	6,723,645	14,078,840	7,742,311	7,077,521	14,819,832	8,129,427	7,431,397	15,560,824	0.69%	0.41%	0.56%	0.69%	0.41%	0.56%	0.69%	0.41%
2030	7,435,071	6,776,012	14,211,083	7,826,390	7,132,644	14,959,034	8,217,710	7,489,276	15,706,986	1.09%	0.78%	0.94%	1.09%	0.78%	0.94%	1.09%	0.78%
2031	7,512,200	6,826,317	14,338,517	7,907,579	7,185,597	15,093,176	8,302,958	7,544,877	15,847,835	1.04%	0.74%	0.90%	1.04%	0.74%	0.90%	1.04%	0.74%
2032	7,620,511	6,903,242	14,523,753	8,021,590	7,266,571	15,288,161	8,422,670	7,629,900	16,052,569	1.44%	1.13%	1.29%	1.44%	1.13%	1.29%	1.44%	1.13%
2033	7,654,637	6,917,958	14,572,595	8,057,512	7,282,061	15,339,573	8,460,388	7,646,164	16,106,552	0.45%	0.21%	0.34%	0.45%	0.21%	0.34%	0.45%	0.21%
2034	7,720,674	6,960,029	14,680,704	8,127,026	7,326,346	15,453,372	8,533,777	7,692,664	16,226,041	0.86%	0.61%	0.74%	0.86%	0.61%	0.74%	0.86%	0.61%
2035	7,786,295	7,002,002	14,788,297	8,196,100	7,370,528	15,566,629	8,605,905	7,739,055	16,344,960	0.85%	0.60%	0.73%	0.85%	0.60%	0.73%	0.85%	0.60%



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

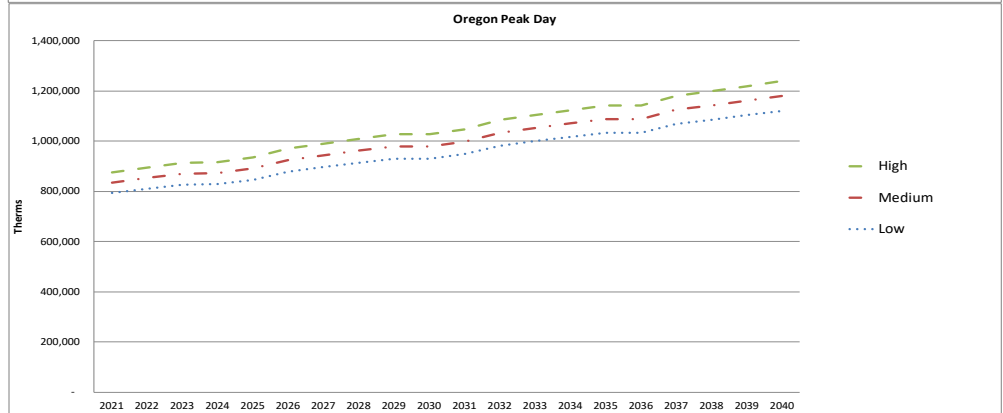
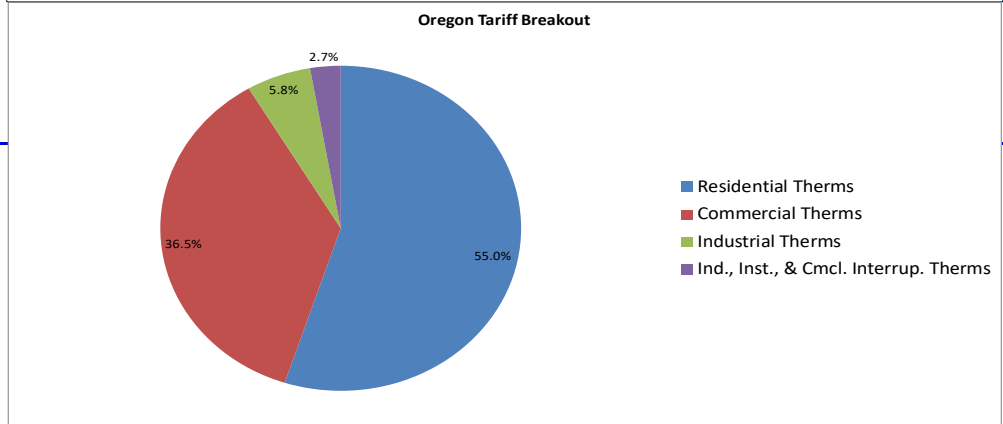
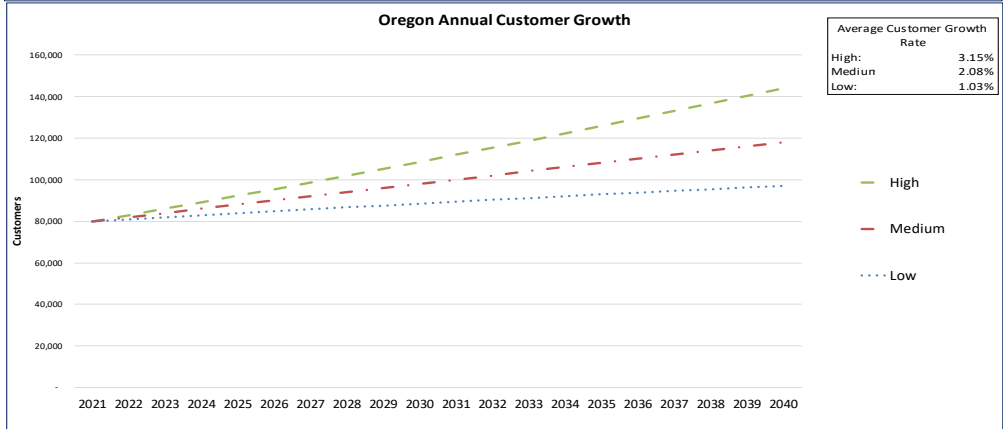
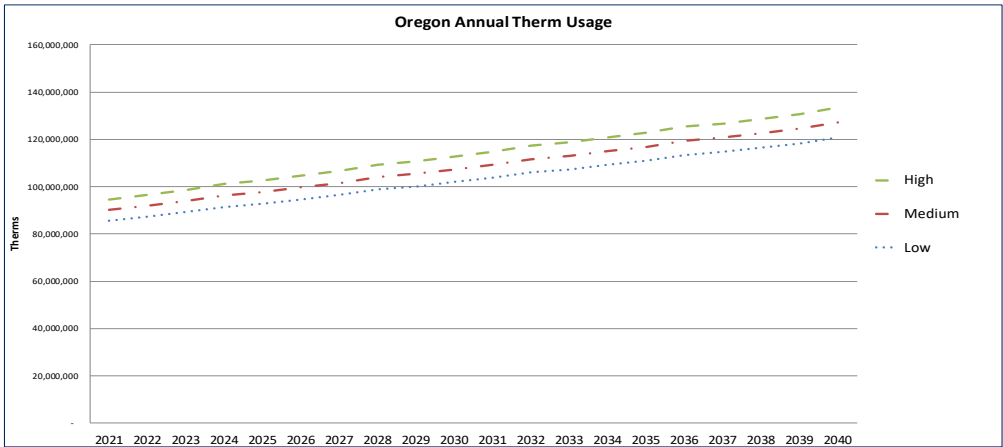
Table with 4 main sections: Washington, Annual Requirements (Therms), Peak Day - BaseLoad, and Customer Count Forecast. Each section contains a grid of data for years 2021-2040 across Low, Medium, and High categories.



Cascade Natural Gas  
2020 IRP Demand Forecast Summary Tables

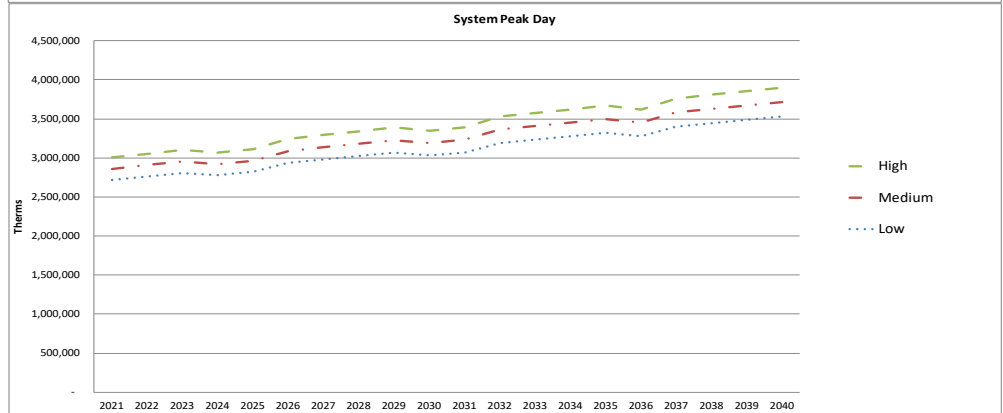
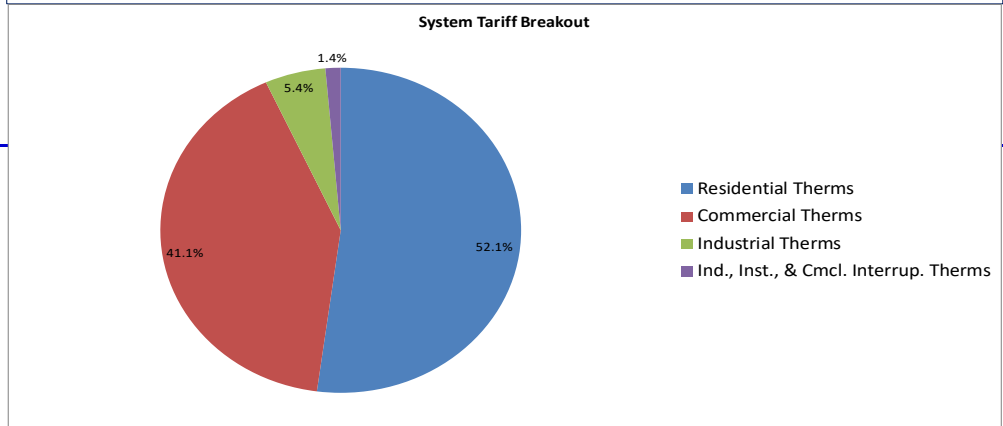
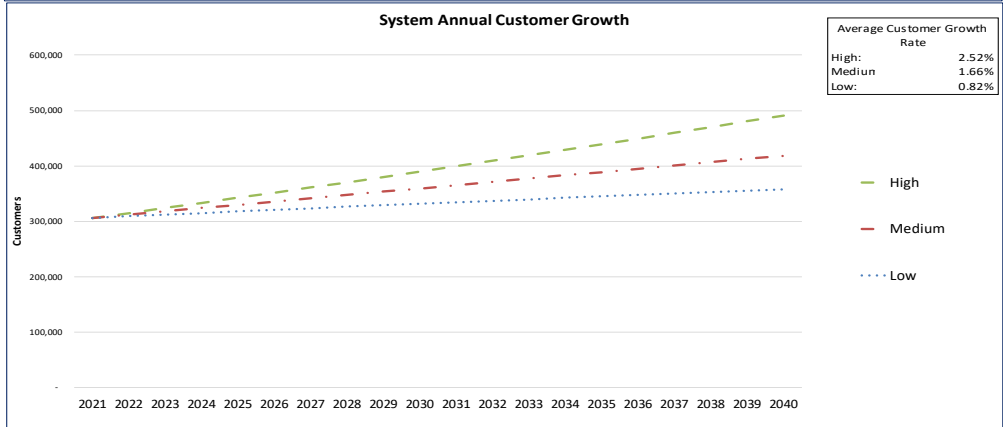
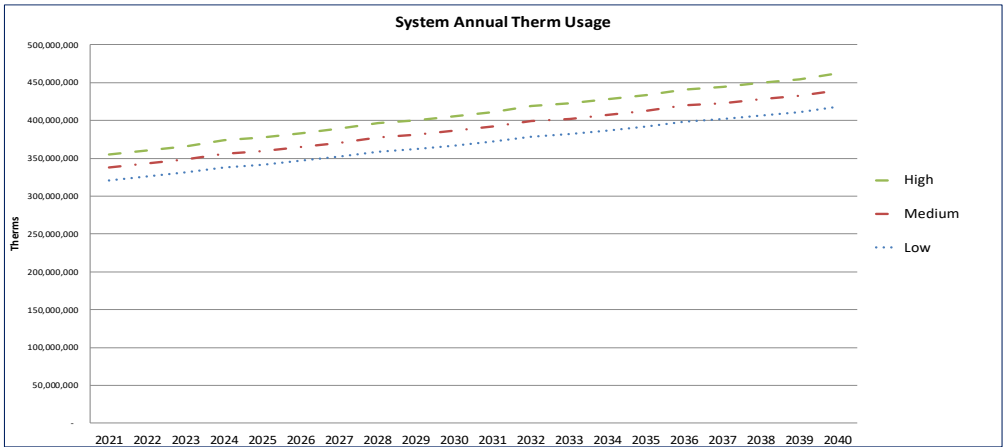
Oregon																										
Annual Requirements (Therms)															Annual Change											
Low					Medium					High					Low			Medium			High					
Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	Heating	Baseload	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2021	60,457,331	25,160,168	85,617,499	64,644,767	25,478,916	90,123,683	72,719,041	21,910,826	94,629,867	94,629,867	21,910,826	2.09%	2.19%	2.12%	2.09%	2.19%	2.12%	2.06%	2.30%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
2022	61,179,239	25,711,005	87,430,244	65,994,856	26,036,981	92,031,836	74,218,940	22,414,888	96,633,428	96,633,428	22,414,888	2.09%	2.19%	2.12%	2.09%	2.19%	2.12%	2.06%	2.30%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
2023	63,033,833	26,204,617	89,238,450	67,390,295	26,544,916	93,935,210	75,781,716	22,850,254	98,631,970	98,631,970	22,850,254	2.13%	2.23%	2.16%	2.13%	2.23%	2.16%	2.07%	2.31%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%
2024	64,775,467	26,753,098	91,528,565	69,245,638	27,100,221	96,345,858	77,880,662	23,282,488	101,163,150	101,163,150	23,282,488	2.76%	2.09%	2.57%	2.75%	2.09%	2.57%	2.77%	1.89%	2.77%	1.89%	2.77%	1.89%	2.77%	1.89%	2.77%
2025	65,710,726	27,170,819	92,881,545	70,245,866	27,524,233	97,770,099	79,029,602	23,629,004	102,658,606	102,658,606	23,629,004	1.44%	1.56%	1.48%	1.44%	1.56%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%
2026	67,017,370	27,676,982	94,694,352	71,636,542	28,041,722	99,678,264	80,588,561	24,073,617	104,662,179	104,662,179	24,073,617	1.99%	1.86%	1.95%	1.98%	1.88%	1.95%	1.88%	1.95%	1.97%	1.88%	1.95%	1.88%	1.95%	1.88%	1.95%
2027	68,260,817	28,247,126	96,507,943	72,968,328	28,618,982	101,587,310	82,061,468	24,605,260	106,666,674	106,666,674	24,605,260	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%	1.86%	2.06%	1.92%
2028	69,990,100	28,801,912	98,792,012	74,808,243	29,183,350	103,991,593	84,075,435	25,117,740	109,191,175	109,191,175	25,117,740	2.53%	2.06%	2.37%	2.52%	2.37%	2.52%	2.07%	2.37%	2.45%	2.07%	2.37%	2.45%	2.07%	2.37%	2.45%
2029	70,741,640	29,402,212	100,143,852	75,613,302	29,801,280	105,414,581	85,043,653	25,641,657	110,685,309	110,685,309	25,641,657	1.07%	2.08%	1.37%	1.08%	2.12%	1.37%	1.15%	2.09%	1.37%	1.15%	2.09%	1.37%	1.15%	2.09%	1.37%
2030	72,120,674	29,838,366	101,959,040	77,084,791	30,240,515	107,325,306	86,712,592	25,978,979	112,691,571	112,691,571	25,978,979	1.95%	1.48%	1.81%	1.95%	1.47%	1.81%	1.95%	1.26%	1.81%	1.95%	1.26%	1.81%	1.95%	1.26%	1.81%
2031	73,526,356	30,247,684	103,774,039	78,583,172	30,652,660	109,235,831	88,384,578	26,313,044	114,697,622	114,697,622	26,313,044	1.95%	1.37%	1.78%	1.94%	1.36%	1.78%	1.93%	1.29%	1.78%	1.93%	1.29%	1.78%	1.93%	1.29%	1.78%
2032	75,280,926	30,849,475	106,130,401	80,451,426	31,264,786	111,716,212	90,427,472	26,874,551	117,302,024	117,302,024	26,874,551	2.39%	1.99%	2.27%	2.38%	2.00%	2.27%	2.31%	2.13%	2.27%	2.31%	2.13%	2.27%	2.31%	2.13%	2.27%
2033	75,989,692	31,406,543	107,396,235	81,220,313	31,828,354	113,048,667	91,305,755	27,395,346	118,701,102	118,701,102	27,395,346	0.94%	1.81%	1.19%	0.96%	1.80%	1.19%	0.97%	1.94%	1.19%	0.97%	1.94%	1.19%	0.97%	1.94%	1.19%
2034	77,310,520	31,901,568	109,212,088	82,622,700	32,337,393	114,960,093	92,875,728	27,832,370	120,708,098	120,708,098	27,832,370	1.74%	1.58%	1.69%	1.73%	1.60%	1.69%	1.97%	1.60%	1.69%	1.97%	1.60%	1.69%	1.97%	1.60%	1.69%
2035	78,535,755	32,511,338	111,047,093	83,926,097	32,965,577	116,891,674	94,370,059	28,366,199	122,736,259	122,736,259	28,366,199	1.58%	1.91%	1.68%	1.58%	1.91%	1.68%	1.68%	1.63%	1.68%	1.63%	1.68%	1.63%	1.68%	1.63%	1.68%
2036	80,590,140	32,851,505	113,441,646	86,112,190	33,300,069	119,412,258	96,802,144	28,590,726	125,392,870	125,392,870	28,590,726	2.62%	1.05%	2.16%	2.62%	1.05%	2.16%	2.62%	2.07%	2.16%	2.62%	2.07%	2.16%	2.62%	2.07%	2.16%
2037	81,328,463	33,360,633	114,689,095	86,905,357	33,820,005	120,725,363	97,733,546	29,028,087	126,761,633	126,761,633	29,028,087	0.92%	1.55%	1.10%	0.92%	1.55%	1.10%	0.92%	1.56%	1.10%	0.92%	1.56%	1.10%	0.92%	1.56%	1.10%
2038	82,558,491	33,948,651	116,507,143	88,223,356	34,415,558	122,639,094	99,186,510	29,584,540	128,771,050	128,771,050	29,584,540	1.51%	1.76%	1.59%	1.52%	1.76%	1.59%	1.49%	1.52%	1.76%	1.59%	1.49%	1.52%	1.76%	1.59%	1.49%
2039	83,789,706	34,516,447	118,306,153	89,540,963	34,991,825	124,532,788	100,637,567	30,121,859	130,759,426	130,759,426	30,121,859	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%	1.49%	1.67%	1.54%
2040	85,618,204	35,122,177	120,740,382	91,482,496	35,612,644	127,095,140	102,815,064	30,634,834	133,449,898	133,449,898	30,634,834	2.18%	1.75%	2.06%	2.17%	1.77%	2.06%	2.16%	1.70%	2.06%	2.16%	1.70%	2.06%	2.16%	1.70%	2.06%

Peak Day - Baseload															Annual Change											
Low					Medium					High					Low			Medium			High					
Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Daily Baseload	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	Base	Peak	Total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2021	68,932	723,928	792,860	69,805	764,784	834,590	60,030	816,289	876,319	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2022	70,441	739,499	809,940	71,334	781,234	852,569	61,410	833,787	895,197	2.19%	2.15%	2.15%	2.19%	2.15%	2.15%	2.19%	2.15%	2.30%	2.14%	2.15%	2.15%	2.15%	2.15%	2.15%	2.15%	2.15%
2023	71,793	755,198	826,992	72,726	797,792	870,518	62,603	851,440	914,044	1.92%	2.12%	2.11%	1.95%	2.12%	2.11%	1.94%	2.12%	1.94%	2.12%	2.11%	1.94%	2.12%	1.94%	2.12%	2.11%	1.94%
2024	73,296	756,087	829,384	74,247	798,788	873,035	63,788	852,899	916,687	2.09%	0.12%	0.29%	2.09%	0.12%	0.29%	1.89%	0.17%	1.89%	0.17%	1.89%	0.17%	1.89%	0.17%	1.89%	0.17%	1.89%
2025	74,441	771,206	845,647	75,409	815,266	890,675	64,737	870,493	935,210	1.56%	2.07%	2.07%	1.56%	2.07%	2.07%	1.49%	2.07%	1.49%	2.07%	1.49%	2.07%	1.49%	2.07%	1.49%	2.07%	1.49%
2026	75,827	802,955	878,783	76,827	848,208	925,034	65,955	905,331	971,286	1.86%	4.05%	3.86%	1.86%	4.04%	3.86%	1.89%	4.00%	3.86%	1.89%	4.00%	3.86%	1.89%	4.00%	3.86%	1.89%	4.00%
2027	77,389	818,480	895,870	78,408	864,613	943,021	67,412	922,760	990,172	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.06%	1.93%	1.94%	2.21%	1.93%	1.94%	2.21%	1.93%	1.94%	2.21%	1.93%
2028	78,909	834,631	913,540	79,954	881,667	961,621	68,810	940,892	1,009,702	1.96%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	1.97%	2.07%	1.97%	1.97%	2.07%	1.97%	1.97%	2.07%	1.97%
2029	80,554	850,087	930,641	81,647	897,975	979,622	70,251	958,352	1,028,630	2.08%	1.85%	1.87%	2.08%	1.85%	1.87%	2.12%	1.85%	1.87%	2.09%	1.85%	1.87%	2.09%	1.85%	1.87%	2.09%	1.85%
2030	81,749	848,934	930,683	82,851	896,815	979,666	71,175	957,474	1,028,649	1.48%	-0.14%	0.00%	1.47%	-0.13%	0.00%	1.47%	-0.13%	0.00%	1.32%	-0.09%	0.00%	1.32%	-0.09%	0.00%	1.32%	-0.09%
2031	82,870	864,602	947,472	83,980	913,359	997,339	72,091	975,115	1,047,206	1.37%	1.85%	1.80%	1.36%	1.84%	1.80%	1.29%	1.84%	1.29%	1.84%	1.29%	1.84%	1.29%	1.84%	1.29%	1.84%	1.29%
2032	84,519	898,021	982,540	85,657	948,596	1,034,252	73,629	1,012,336	1,085,965	1.99%	3.87%	3.70%	2.00%	3.86%	3.70%	2.13%	3.82%	3.70%	1.80%	3.82%	3.70%	1.80%	3.82%	3.70%	1.80%	3.82%
2033	86,045	913,958	999,643	87,201	965,055	1,052,256	75,056	1,029,813	1,104,869	1.81%	1.73%	1.74%	1.80%	1.74%	1.74%	1.94%	1.73%	1.74%	1.94%	1.73%	1.74%	1.94%	1.73%	1.74%	1.94%	1.73%
2034	87,402	929,339	1,016,741	88,596	981,658	1,070,253	76,253	1,047,513	1,123,766	1.58%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%	1.71%	1.60%	1.72%
2035	89,072	944,763	1,033,835	90,317	997,930	1,088,247	77,716	1,064,944	1,142,659	1.91%	1.66%	1.68%	1.94%	1.66%	1.68%	1.94%	1.66%	1.68%	1.92%	1.66%	1.68%	1.92%	1.66%	1.68%	1.92%	1.66%
2036	90,004	942,663	1,032,668	91,233	995,785	1,087,018	78,303	1,063,066	1,141,369	1.05%	-0.22%	-0.11%	1.01%	-0.21%	-0.11%	1.07%	-0.18%	-0.11%	0.76%	-0.18%	-0.11%	0.76%	-0.18%	-0.11%	0.76%	-0.18%
2037	91,399	977,266	1,068,665	92,658	1,032,253	1,124,911	79,529	1,101,628	1,181,157	1.55%	3.67%	3.49%	1.56%	3.66%	3.49%	1.57%	3.63%	3.49%	1.57%	3.63%	3.49%	1.57%	3.63%	3.49%	1.57%	3.63%
2038	93,010	992,755	1,085,765	94,289	1,048,622	1,142,911	81,054	1,119,030	1,200,556	1.76%	1.58%	1.60%	1.76%	1.59%	1.60%	1.76%	1.59%	1.60%	1.92%	1.59%	1.60%	1.92%	1.59%	1.60%	1.92%	1.59%
2039	94,566																									



Cascade Natural Gas 2020 IRP Demand Forecast Summary Tables

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





**Appendix B  
Demand Forecast  
Expected Scenario**

7th Day School	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,675	9,678	9,745	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interrup. Therms										
<b>Total Core Therms</b>	28,936	28,929	28,931	29,107	28,926	28,928	28,931	29,107	28,926	28,928
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	14	14	14	14	14	14	14	14	14	14
<b>Acme</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.23%	0.25%	0.67%	-0.15%	0.26%	0.26%	0.63%	-0.11%	0.26%
Residential Therms	51,861	52,057	52,242	52,488	52,688	52,900	53,114	53,531	53,552	53,773
Commercial Therms	30,307	30,303	30,303	30,429	30,307	30,307	30,307	30,420	30,307	30,307
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	82,168	82,360	82,545	83,117	82,995	83,207	83,422	83,951	83,859	84,081
Daily Baseload Therms	56	56	56	56	56	57	57	57	57	57
Peak Day Therms	760	762	764	764	754	770	772	774	776	766
Therms Per Residential Customer	762	766	757	764	764	767	770	765	765	768
Therms Per Commercial Customer	3,367	3,367	3,367	3,381	3,367	3,367	3,367	3,380	3,367	3,367
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	68	68	69	69	69	69	69	70	70	70
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	77	77	78	78	78	78	78	79	79	79
<b>Arlington</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.13%	1.08%	1.52%	0.67%	-1.09%	1.08%	1.43%	0.68%	1.04%
Residential Therms	3,263,894	3,283,034	3,301,946	3,335,991	3,341,377	3,361,194	3,380,903	3,413,388	3,420,056	3,439,645
Commercial Therms	2,060,211	2,098,373	2,134,907	2,181,204	2,210,144	2,248,426	2,286,501	2,332,639	2,362,164	2,400,007
Industrial Therms	427,119	434,690	441,980	451,249	456,990	464,629	472,227	481,445	487,316	494,868
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	5,751,224	5,816,097	5,878,834	5,968,444	6,008,511	6,074,249	6,139,631	6,227,472	6,269,536	6,334,520
Daily Baseload Therms	5,298	5,408	5,475	5,490	5,514	5,583	5,698	5,797	5,870	5,893
Peak Day Therms	45,907	46,413	46,894	46,021	46,503	48,402	48,902	49,422	49,920	48,946
Therms Per Residential Customer	673	672	671	674	670	669	669	670	667	666
Therms Per Commercial Customer	3,247	3,238	3,229	3,234	3,214	3,209	3,202	3,207	3,190	3,184
Therms Per Industrial Customer	14,728	14,989	15,785	16,116	16,321	16,594	16,865	17,851	18,049	18,328
Residential Customers	4,849	4,883	4,918	4,953	4,968	5,022	5,057	5,092	5,127	5,162
Commercial Customers	635	648	661	674	688	701	714	727	741	754
Industrial Customers	29	29	28	28	28	28	28	27	27	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5,512	5,560	5,607	5,655	5,703	5,751	5,799	5,846	5,894	5,942
<b>Athens</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.10%	2.13%	2.51%	1.66%	2.00%	1.98%	2.13%	1.72%	1.83%
Residential Therms	303,043	306,208	309,578	314,210	316,439	319,795	323,224	327,209	330,049	333,243
Commercial Therms	129,978	131,076	132,271	134,044	134,721	135,908	137,125	138,602	139,542	140,709
Industrial Therms	31,824	37,339	42,885	48,642	54,005	59,546	65,092	70,809	76,234	81,756
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	464,845	474,623	484,735	496,895	505,166	515,249	525,441	536,621	545,826	555,809
Daily Baseload Therms	179	192	163	162	179	182	195	181	211	165
Peak Day Therms	3,710	3,797	3,883	3,550	3,628	4,154	4,240	4,340	4,426	4,030
Therms Per Residential Customer	572	570	568	568	564	563	561	560	558	556
Therms Per Commercial Customer	1,945	1,939	1,940	1,940	1,922	1,914	1,909	1,910	1,905	1,899
Therms Per Industrial Customer	31,824	21,337	21,443	24,321	27,003	20,416	21,697	23,603	25,411	20,439
Residential Customers	530	538	545	553	561	569	576	584	592	599
Commercial Customers	67	68	68	69	70	71	72	73	73	74
Industrial Customers	1	2	2	2	2	3	3	3	3	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	598	607	616	624	633	642	651	660	668	678
<b>Baker</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.06%	1.06%	1.57%	0.56%	1.04%	1.03%	1.47%	0.58%	1.01%
Residential Therms	2,287,110	2,304,943	2,323,096	2,353,464	2,359,720	2,377,532	2,395,134	2,423,683	2,430,041	2,447,223
Commercial Therms	1,592,517	1,607,151	1,622,116	1,645,511	1,652,523	1,667,494	1,682,465	1,704,961	1,712,482	1,727,453
Industrial Therms	147,804	157,877	167,936	178,785	188,889	199,683	210,915	222,867	234,287	246,393
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	4,027,431	4,069,971	4,113,148	4,177,760	4,201,132	4,244,709	4,288,514	4,351,512	4,376,809	4,421,069
Daily Baseload Therms	2,100	2,137	2,172	2,221	2,240	2,276	2,314	2,356	2,409	2,445
Peak Day Therms	39,086	39,451	39,817	39,221	39,576	40,929	41,294	41,675	42,040	41,361
Therms Per Residential Customer	673	673	673	676	672	672	672	671	671	671
Therms Per Commercial Customer	3,074	3,074	3,075	3,093	3,078	3,080	3,082	3,096	3,086	3,087
Therms Per Industrial Customer	49,268	52,626	55,979	59,595	62,963	66,561	70,305	74,289	78,096	82,131
Residential Customers	3,397	3,426	3,454	3,483	3,511	3,539	3,567	3,594	3,622	3,649
Commercial Customers	518	523	528	532	537	541	546	551	555	560
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	3,918	3,951	3,985	4,018	4,051	4,083	4,116	4,148	4,180	4,212

Bend Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.74%	2.64%	3.11%	1.99%	2.45%	2.39%	2.84%	1.79%	2.23%
Residential Therms	27,125,613	27,994,299	28,861,136	29,887,296	30,603,300	31,472,216	32,341,399	33,316,834	34,083,361	34,953,368
Commercial Therms	12,660,082	12,875,013	13,079,520	13,353,397	13,491,705	13,697,231	13,902,919	14,117,525	14,315,529	14,521,121
Industrial Therms	735,998	761,900	787,609	816,925	839,639	865,809	892,043	921,876	944,713	971,142
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>40,521,693</b>	<b>41,631,212</b>	<b>42,728,255</b>	<b>44,057,618</b>	<b>44,934,644</b>	<b>46,035,255</b>	<b>47,136,361</b>	<b>48,476,235</b>	<b>49,343,603</b>	<b>50,446,231</b>
Daily Baseload Therms	31,119	32,011	32,833	33,660	34,373	35,192	36,077	36,989	37,861	38,613
Peak Day Therms	394,954	405,608	416,239	422,162	432,697	448,315	458,981	469,772	480,450	485,576
Therms Per Residential Customer	763	763	764	768	765	765	765	769	766	766
Therms Per Commercial Customer	2,930	2,931	2,931	2,945	2,930	2,930	2,929	2,943	2,928	2,928
Therms Per Industrial Customer	21,437	20,922	20,502	20,213	19,795	19,493	19,184	19,008	18,707	18,469
Residential Customers	35,553	36,670	37,786	38,905	40,023	41,142	42,261	43,383	44,503	45,623
Commercial Customers	4,321	4,392	4,463	4,534	4,604	4,674	4,747	4,818	4,889	4,960
Industrial Customers	34	36	38	40	42	44	47	49	51	53
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>39,908</b>	<b>41,099</b>	<b>42,287</b>	<b>43,479</b>	<b>44,670</b>	<b>45,862</b>	<b>47,054</b>	<b>48,249</b>	<b>49,443</b>	<b>50,636</b>
<b>Bremerton (Shelton)</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.51%	1.49%	1.91%	1.02%	1.42%	1.40%	1.80%	0.95%	1.35%
Residential Therms	23,256,997	23,615,362	23,975,726	24,446,305	24,700,175	25,060,603	25,421,031	25,890,300	26,143,338	26,503,766
Commercial Therms	12,442,617	12,646,994	12,851,258	13,110,987	13,261,840	13,466,134	13,670,429	13,929,898	14,079,844	14,284,137
Industrial Therms	441,590	447,452	453,348	461,239	465,202	471,099	476,996	484,874	488,813	494,710
Ind., Inst., & Cmcl. Interup. Therms	1,673,759	1,676,136	1,676,202	1,682,778	1,676,333	1,676,333	1,676,333	1,682,519	1,676,333	1,676,333
<b>Total Core Therms</b>	<b>37,814,963</b>	<b>38,385,943</b>	<b>38,956,534</b>	<b>39,700,309</b>	<b>40,103,550</b>	<b>40,614,169</b>	<b>41,244,788</b>	<b>41,987,591</b>	<b>42,388,328</b>	<b>42,958,947</b>
Daily Baseload Therms	32,984	33,517	34,011	34,481	34,900	35,394	35,925	36,433	36,966	37,422
Peak Day Therms	298,347	302,840	307,310	308,493	312,914	320,905	325,373	330,033	334,502	335,199
Therms Per Residential Customer	680	680	680	682	679	678	678	681	677	677
Therms Per Commercial Customer	3,917	3,915	3,914	3,929	3,911	3,909	3,907	3,921	3,904	3,903
Therms Per Industrial Customer	29,439	29,830	30,223	30,749	31,013	31,407	31,800	32,325	32,588	32,981
Residential Customers	34,179	34,730	35,282	35,835	36,387	36,939	37,491	38,043	38,595	39,147
Commercial Customers	3,176	3,230	3,284	3,337	3,391	3,445	3,499	3,552	3,606	3,660
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>37,372</b>	<b>37,977</b>	<b>38,583</b>	<b>39,189</b>	<b>39,795</b>	<b>40,401</b>	<b>41,006</b>	<b>41,613</b>	<b>42,218</b>	<b>42,824</b>
<b>Brouillette Hop</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,676	9,678	9,745	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,936</b>	<b>28,929</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Burbank Heights Loop</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		2.69%	2.40%	2.86%	1.75%	2.24%	2.12%	2.48%	1.49%	1.88%
Residential Therms	6,322,020	6,502,259	6,648,122	6,867,781	6,995,503	7,160,458	7,319,349	7,507,764	7,624,922	7,773,419
Commercial Therms	4,749,968	4,871,611	4,984,333	5,122,658	5,208,881	5,321,846	5,431,486	5,563,275	5,643,994	5,747,931
Industrial Therms	271,228	273,186	275,197	278,372	279,287	281,317	283,357	284,414	287,448	289,507
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>11,343,216</b>	<b>11,648,056</b>	<b>11,927,651</b>	<b>12,268,811</b>	<b>12,483,671</b>	<b>12,763,622</b>	<b>13,034,213</b>	<b>13,357,455</b>	<b>13,556,364</b>	<b>13,810,857</b>
Daily Baseload Therms	8,810	9,022	8,697	8,755	9,678	9,865	10,044	9,808	10,170	9,776
Peak Day Therms	72,544	74,404	76,079	75,504	77,098	81,516	83,123	85,171	86,710	85,171
Therms Per Residential Customer	522	519	515	514	507	504	501	499	494	490
Therms Per Commercial Customer	4,000	3,995	3,989	4,004	3,979	3,974	3,967	3,979	3,956	3,951
Therms Per Industrial Customer	20,864	21,014	21,169	21,413	21,484	21,640	21,797	22,032	22,111	22,270
Residential Customers	12,118	12,540	12,957	13,373	13,788	14,204	14,618	15,031	15,442	15,852
Commercial Customers	1,188	1,220	1,250	1,279	1,309	1,339	1,369	1,398	1,427	1,455
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,319</b>	<b>13,773</b>	<b>14,219</b>	<b>14,665</b>	<b>15,110</b>	<b>15,556</b>	<b>16,000</b>	<b>16,442</b>	<b>16,882</b>	<b>17,320</b>
<b>Castle Rock</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		0.21%	0.20%	0.62%	-0.22%	0.20%	0.20%	0.65%	-0.25%	0.20%
Residential Therms	35,613	36,046	36,475	37,088	37,335	37,766	38,197	38,830	39,063	39,496
Commercial Therms	140,445	140,388	140,315	140,798	140,153	140,079	140,004	140,530	139,855	139,779
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>176,058</b>	<b>176,433</b>	<b>176,790</b>	<b>177,886</b>	<b>177,488</b>	<b>177,845</b>	<b>178,202</b>	<b>179,360</b>	<b>178,918</b>	<b>179,275</b>
Daily Baseload Therms	242	242	242	243	243	243	243	243	244	244
Peak Day Therms	1,174	1,177	1,179	1,201	1,204	1,188	1,191	1,194	1,197	1,218
Therms Per Residential Customer	482	474	464	457	448	440	433	428	420	414
Therms Per Commercial Customer	2,926	2,925	2,923	2,933	2,920	2,918	2,917	2,928	2,914	2,912
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	74	76	79	81	83	86	88	91	93	95
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>122</b>	<b>124</b>	<b>127</b>	<b>129</b>	<b>131</b>	<b>134</b>	<b>136</b>	<b>139</b>	<b>141</b>	<b>143</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

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

**Appendix B  
Demand Forecast  
Expected Scenario**

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



	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>LDS Church</b>										
Total Therms Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,324	5,323	5,323	5,347	5,323	5,323	5,323	5,347	5,323	5,323
Commercial Therms	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189	5,161	5,161
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	10,485	10,484	10,484	10,535	10,484	10,484	10,484	10,535	10,484	10,484
Daily Baseload Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	60	60	60	60	60	60	60	60	60	60
Therms Per Residential Customer	1,331	1,331	1,331	1,337	1,331	1,331	1,331	1,337	1,331	1,331
Therms Per Commercial Customer	5,161	5,161	5,161	5,188	5,161	5,161	5,161	5,189	5,161	5,161
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5	5	5	5	5	5	5	5	5	5
<b>Longview South Loop</b>										
Total Therms Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,186,084	1,186,798	1,217,832	1,253,801	1,280,412	1,311,442	1,342,467	1,377,721	1,404,633	1,435,634
Commercial Therms	4,519,432	4,575,960	4,633,741	4,709,297	4,750,932	4,808,746	4,866,560	4,938,862	4,992,431	5,040,245
Industrial Therms	198,359	194,569	190,839	187,717	183,404	179,687	175,973	172,676	168,526	164,629
Ind., Inst., & Cncl. Interrup. Therms	88,753	88,713	88,706	89,042	88,695	88,723	88,757	89,003	88,727	88,710
<b>Total Core Therms</b>	5,962,629	6,045,040	6,131,118	6,239,857	6,303,444	6,388,598	6,473,757	6,570,262	6,644,316	6,729,417
Daily Baseload Therms	5,049	5,117	3,557	3,935	5,404	5,457	5,408	3,819	4,703	4,243
Peak Day Therms	58,844	59,668	60,471	59,631	60,410	62,997	63,798	64,724	65,525	64,421
Therms Per Residential Customer	553	551	550	550	547	546	545	546	543	542
Therms Per Commercial Customer	4,855	4,841	4,829	4,835	4,806	4,795	4,784	4,788	4,763	4,752
Therms Per Industrial Customer	15,258	14,967	14,680	14,440	14,108	13,822	13,536	13,283	12,964	12,679
Residential Customers	2,092	2,154	2,216	2,278	2,339	2,401	2,462	2,524	2,586	2,647
Commercial Customers	931	945	960	974	989	1,003	1,017	1,032	1,046	1,061
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	3,037	3,113	3,189	3,266	3,342	3,418	3,494	3,570	3,646	3,722
<b>Madras</b>										
Total Therms Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	716,845	727,350	738,095	753,141	759,966	770,876	781,787	796,543	803,600	814,538
Commercial Therms	1,243,304	1,255,160	1,267,405	1,286,587	1,292,450	1,304,882	1,317,315	1,335,808	1,342,180	1,354,644
Industrial Therms	919,981	929,044	938,392	953,225	957,481	966,973	976,464	990,820	995,428	1,004,943
Ind., Inst., & Cncl. Interrup. Therms	293,016	292,939	292,939	294,556	293,016	293,016	293,016	294,401	293,016	293,016
<b>Total Core Therms</b>	3,173,146	3,204,493	3,236,831	3,287,510	3,302,913	3,335,748	3,368,582	3,417,573	3,434,224	3,467,140
Daily Baseload Therms	1,561	1,595	1,614	1,614	1,615	1,634	1,670	1,704	1,723	1,723
Peak Day Therms	27,361	27,646	27,932	27,353	27,634	28,789	29,079	29,359	29,650	29,633
Therms Per Residential Customer	541	536	531	530	523	519	515	509	506	506
Therms Per Commercial Customer	3,256	3,277	3,293	3,332	3,331	3,351	3,369	3,400	3,405	3,421
Therms Per Industrial Customer	5,110	5,164	5,213	5,295	5,319	5,371	5,428	5,504	5,530	5,530
Residential Customers	1,325	1,357	1,389	1,421	1,452	1,484	1,516	1,548	1,579	1,611
Commercial Customers	382	383	385	386	388	389	391	393	394	396
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	1,726	1,759	1,793	1,826	1,859	1,892	1,926	1,959	1,992	2,026
<b>McCleary (Aberdeen/Hoquiam)</b>										
Total Therms Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,598,665	2,622,637	2,647,398	2,714,881	2,738,023	2,772,832	2,807,641	2,852,996	2,877,402	2,912,225
Commercial Therms	3,245,974	3,261,841	3,278,822	3,309,943	3,314,107	3,331,065	3,348,049	3,375,952	3,382,180	3,399,274
Industrial Therms	216,701	214,439	212,246	210,885	207,927	205,739	203,552	201,955	199,169	196,984
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	6,061,360	6,108,917	6,158,467	6,235,709	6,260,057	6,309,627	6,359,262	6,430,904	6,458,750	6,508,483
Daily Baseload Therms	5,690	5,717	4,718	4,844	5,846	5,875	5,901	4,927	5,651	5,002
Peak Day Therms	38,021	38,334	38,647	37,042	37,339	39,698	40,010	40,439	40,751	38,936
Therms Per Residential Customer	708	706	704	705	701	699	697	698	694	693
Therms Per Commercial Customer	4,512	4,504	4,501	4,515	4,494	4,488	4,485	4,493	4,475	4,471
Therms Per Industrial Customer	16,669	16,495	16,327	16,222	15,994	15,826	15,658	15,535	15,321	15,153
Residential Customers	3,672	3,731	3,790	3,849	3,909	3,968	4,027	4,086	4,145	4,204
Commercial Customers	719	724	729	733	738	742	747	751	756	760
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	4,404	4,468	4,532	4,596	4,659	4,723	4,786	4,850	4,914	4,978
<b>Milton-Freewater</b>										
Total Therms Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	110,325	111,519	112,751	114,653	115,269	116,502	117,734	119,547	120,214	121,447
Commercial Therms	316,907	321,836	326,883	333,615	337,137	342,188	347,240	353,674	357,367	362,418
Industrial Therms	19,248	18,574	17,907	17,341	16,581	15,914	15,246	14,650	13,915	13,247
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	446,480	451,929	457,541	465,609	468,987	474,604	480,220	487,871	491,496	497,112
Daily Baseload Therms	373	374	366	372	398	403	404	394	413	402
Peak Day Therms	5,103	5,167	5,231	5,126	5,188	5,424	5,488	5,554	5,618	5,499
Therms Per Residential Customer	445	440	436	434	428	424	421	419	413	410
Therms Per Commercial Customer	2,957	2,948	2,940	2,948	2,927	2,921	2,914	2,919	2,901	2,895
Therms Per Industrial Customer	4,529	4,370	4,213	4,080	3,901	3,744	3,587	3,447	3,274	3,117
Residential Customers	248	254	259	264	270	275	280	285	291	296
Commercial Customers	107	109	111	113	115	117	119	121	123	125
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	359	367	374	381	389	396	403	411	418	425

**Appendix B  
Demand Forecast  
Expected Scenario**

Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.85%	0.84%	1.23%	0.83%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	125,639	126,645	136,250	127,414	127,470	128,076	128,681	129,865	129,901	130,507
Commercial Therms	418,883	422,892	426,869	432,507	434,832	438,809	442,786	448,499	450,753	454,730
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	543,922	548,537	553,120	559,921	562,302	566,885	571,468	578,355	580,654	585,237
Daily Baseload Therms	549	553	558	563	567	572	577	582	587	591
Peak Day Therms	5,992	6,042	6,092	6,146	6,196	6,241	6,291	6,341	6,391	6,446
Therms Per Residential Customer	568	568	568	569	566	566	566	569	566	566
Therms Per Commercial Customer	9,309	9,311	9,246	9,202	9,059	8,994	8,921	8,970	8,955	8,902
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	221	222	224	225	226	227	228	229	231
Commercial Customers	45	45	46	47	48	48	49	50	50	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	265	267	269	271	273	275	276	278	280	282

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

Moxee (Beauchene)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	644,256	655,937	667,687	682,652	690,930	702,177	713,201	726,973	734,429	744,680
Commercial Therms	533,345	561,642	589,857	620,666	645,467	672,483	698,953	727,643	749,964	774,583
Industrial Therms	643,034	633,876	624,895	616,972	606,996	598,368	589,937	582,486	573,627	565,658
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	1,820,636	1,851,455	1,882,439	1,920,290	1,943,392	1,973,027	2,002,091	2,037,102	2,058,020	2,084,921
Daily Baseload Therms	315	349	396	502	525	574	597	639	579	593
Peak Day Therms	10,977	11,239	11,497	11,419	11,663	12,359	12,999	12,945	13,172	12,903
Therms Per Residential Customer	592	587	582	580	573	568	564	562	566	552
Therms Per Commercial Customer	8,432	8,652	8,903	9,184	9,321	9,550	9,685	9,922	9,977	10,147
Therms Per Industrial Customer	52,138	50,710	49,992	49,031	47,921	46,931	45,969	44,807	43,293	42,424
Residential Customers	1,089	1,117	1,147	1,177	1,207	1,236	1,264	1,293	1,321	1,349
Commercial Customers	63	65	66	68	69	70	72	73	75	76
Industrial Customers	12	13	13	13	13	13	13	13	13	13
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,165	1,195	1,226	1,257	1,289	1,319	1,349	1,379	1,410	1,439

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

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

**Appendix B  
Demand Forecast  
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Othello</b>										
Total Therms Pct. Growth		0.71%	0.65%	0.89%	0.35%	0.62%	0.67%	1.03%	0.36%	0.62%
Residential Therms	628,859	630,107	631,274	633,301	633,676	634,813	636,055	640,191	638,613	639,794
Commercial Therms	1,378,172	1,393,252	1,407,102	1,424,723	1,435,793	1,449,238	1,464,039	1,483,415	1,494,848	1,508,839
Industrial Therms	211,336	211,336	211,336	212,249	211,336	211,336	211,335	212,249	211,336	211,336
Ind., Inst., & Cmcl. Interrup. Therms	86,069	86,068	86,068	86,383	86,069	86,069	86,069	86,381	86,069	86,069
<b>Total Core Therms</b>	<b>2,304,436</b>	<b>2,320,762</b>	<b>2,335,780</b>	<b>2,358,656</b>	<b>2,366,874</b>	<b>2,381,456</b>	<b>2,397,499</b>	<b>2,422,236</b>	<b>2,430,866</b>	<b>2,446,038</b>
Daily Baseload Therms	1,722	1,736	1,749	1,765	1,779	1,791	1,805	1,824	1,839	1,851
Peak Day Therms	12,495	12,563	12,625	12,652	12,721	12,806	12,872	12,930	13,002	13,039
Therms Per Residential Customer	570	569	567	568	564	562	561	562	558	556
Therms Per Commercial Customer	4,504	4,490	4,467	4,459	4,429	4,407	4,393	4,389	4,367	4,347
Therms Per Industrial Customer	23,482	23,482	23,482	23,583	23,482	23,482	23,482	23,583	23,482	23,482
Residential Customers	1,103	1,108	1,114	1,119	1,124	1,129	1,135	1,140	1,145	1,151
Commercial Customers	306	310	315	320	324	329	333	338	342	347
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,419</b>	<b>1,429</b>	<b>1,439</b>	<b>1,448</b>	<b>1,458</b>	<b>1,468</b>	<b>1,478</b>	<b>1,488</b>	<b>1,498</b>	<b>1,508</b>
<b>Patterson</b>										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	41	50	58	66	75	84	92	100	109	118
Commercial Therms	305,623	305,459	305,458	306,050	305,623	305,623	305,623	305,722	305,621	305,621
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>305,664</b>	<b>305,509</b>	<b>305,516</b>	<b>306,116</b>	<b>305,698</b>	<b>305,707</b>	<b>305,716</b>	<b>305,822</b>	<b>305,730</b>	<b>305,740</b>
Daily Baseload Therms	151	154	150	148	151	151	152	152	148	147
Peak Day Therms	359	361	362	362	361	361	363	359	360	358
Therms Per Residential Customer	41	50	58	66	75	84	92	100	109	118
Therms Per Commercial Customer	61,125	61,092	61,092	61,210	61,125	61,125	61,125	61,144	61,124	61,124
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Pendleton</b>										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	2,883,913	2,914,407	2,945,310	2,992,060	3,007,818	3,038,730	3,069,642	3,115,714	3,131,723	3,162,635
Commercial Therms	2,394,799	2,412,937	2,431,416	2,462,062	2,468,876	2,487,361	2,505,846	2,535,770	2,542,954	2,561,439
Industrial Therms	157,896	157,886	157,894	158,796	157,897	157,893	157,900	158,747	157,928	157,922
Ind., Inst., & Cmcl. Interrup. Therms	671,445	671,343	671,343	674,022	671,445	671,445	671,445	673,818	671,445	671,445
<b>Total Core Therms</b>	<b>6,108,054</b>	<b>6,156,572</b>	<b>6,205,963</b>	<b>6,286,940</b>	<b>6,306,036</b>	<b>6,355,430</b>	<b>6,404,833</b>	<b>6,484,049</b>	<b>6,504,050</b>	<b>6,553,441</b>
Daily Baseload Therms	4,722	4,765	4,798	4,801	4,826	4,869	4,918	4,965	4,989	4,996
Peak Day Therms	63,067	63,578	64,088	63,773	64,277	65,695	66,205	66,792	67,302	66,869
Therms Per Residential Customer	561	560	558	560	555	554	554	556	559	549
Therms Per Commercial Customer	3,112	3,103	3,093	3,100	3,076	3,068	3,059	3,065	3,043	3,035
Therms Per Industrial Customer	26,316	26,314	26,316	26,466	26,316	26,315	26,317	26,468	26,321	26,320
Residential Customers	5,138	5,207	5,277	5,346	5,415	5,484	5,553	5,622	5,691	5,760
Commercial Customers	769	778	786	794	803	811	819	827	836	844
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,915</b>	<b>5,992</b>	<b>6,070</b>	<b>6,147</b>	<b>6,224</b>	<b>6,302</b>	<b>6,379</b>	<b>6,456</b>	<b>6,534</b>	<b>6,611</b>
<b>Plymouth</b>										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Therms	9,678	9,677	9,678	9,745	9,675	9,675	9,675	9,678	9,675	9,676
Industrial Therms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,936</b>	<b>28,929</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	223	223	222	222	222	222	223
Therms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,299	1,299	1,292	1,292
Therms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Therms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Prineville</b>										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,659,364	1,710,914	1,762,868	1,825,691	1,867,476	1,919,420	1,971,347	2,033,851	2,075,393	2,127,284
Commercial Therms	1,760,717	1,786,280	1,812,250	1,848,776	1,864,825	1,890,827	1,916,844	1,952,515	1,969,022	1,995,049
Industrial Therms	424,459	425,031	425,695	428,796	427,131	427,803	428,477	431,298	429,834	430,516
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,844,540</b>	<b>3,922,225</b>	<b>4,000,813</b>	<b>4,103,263</b>	<b>4,159,433</b>	<b>4,238,050</b>	<b>4,316,668</b>	<b>4,417,664</b>	<b>4,474,249</b>	<b>4,552,849</b>
Daily Baseload Therms	2,500	2,520	2,567	2,686	2,736	2,785	2,801	2,826	2,908	2,991
Peak Day Therms	37,175	37,938	38,701	38,439	39,182	41,000	41,763	42,536	43,299	42,908
Therms Per Residential Customer	604	603	603	606	602	602	602	605	601	601
Therms Per Commercial Customer	3,304	3,298	3,295	3,309	3,287	3,284	3,279	3,292	3,272	3,268
Therms Per Industrial Customer	13,264	13,282	13,303	13,400	13,348	13,369	13,390	13,478	13,432	13,454
Residential Customers	2,747	2,835	2,923	3,011	3,100	3,188	3,276	3,364	3,452	3,540
Commercial Customers	533	542	550	559	567	576	585	593	602	610
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>3,312</b>	<b>3,409</b>	<b>3,505</b>	<b>3,602</b>	<b>3,699</b>	<b>3,796</b>	<b>3,892</b>	<b>3,989</b>	<b>4,086</b>	<b>4,182</b>





# Appendix B Demand Forecast Expected Scenario

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	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Sedro-Woolley Loop</b>										
Total Thrms Pct. Growth		0.77%	0.79%	1.23%	0.36%	0.79%	0.78%	1.19%	0.38%	0.78%
Residential Thrms	17,539,642	17,678,500	17,820,378	18,045,428	18,109,032	18,254,191	18,400,241	18,623,705	18,695,313	18,844,626
Commercial Thrms	9,919,291	10,002,014	10,086,528	10,215,157	10,258,561	10,345,029	10,432,028	10,560,863	10,607,907	10,696,651
Industrial Thrms	1,125,547	1,125,407	1,125,406	1,129,381	1,125,547	1,125,546	1,125,545	1,129,104	1,125,547	1,125,546
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>28,584,500</b>	<b>28,805,921</b>	<b>29,032,312</b>	<b>29,387,966</b>	<b>29,493,139</b>	<b>29,724,766</b>	<b>29,957,814</b>	<b>30,313,672</b>	<b>30,428,767</b>	<b>30,667,023</b>
Daily BaseLoad Thrms	27,012	27,139	25,881	25,454	27,842	27,972	28,104	27,266	27,731	26,385
Peak Day Thrms	167,769	168,975	170,189	168,470	169,878	174,349	175,598	177,330	178,601	176,316
Thrms Per Residential Customer	656	652	648	647	641	638	635	634	629	626
Thrms Per Commercial Customer	2,971	2,969	2,967	2,979	2,966	2,965	2,964	2,976	2,964	2,964
Thrms Per Industrial Customer	12,541	12,401	12,200	12,144	11,953	11,745	11,624	11,434	11,293	11,172
Residential Customers	26,752	27,124	27,496	27,870	28,242	28,615	28,987	29,360	29,733	30,105
Commercial Customers	3,338	3,369	3,399	3,429	3,459	3,489	3,519	3,549	3,579	3,609
Industrial Customers	90	91	92	93	94	96	97	99	100	101
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>30,180</b>	<b>30,584</b>	<b>30,988</b>	<b>31,391</b>	<b>31,795</b>	<b>32,199</b>	<b>32,603</b>	<b>33,008</b>	<b>33,411</b>	<b>33,815</b>
<b>South Hermiston</b>										
Total Thrms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Thrms	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339
Commercial Thrms	9,678	9,677	9,678	9,745	9,675	9,676	9,678	9,745	9,675	9,676
Industrial Thrms	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>28,936</b>	<b>28,929</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>	<b>28,926</b>	<b>28,928</b>
Daily BaseLoad Thrms	6	6	6	6	6	6	6	6	6	6
Peak Day Thrms	222	222	222	223	223	222	222	222	222	222
Thrms Per Residential Customer	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292
Thrms Per Commercial Customer	1,936	1,935	1,936	1,949	1,935	1,935	1,936	1,949	1,935	1,935
Thrms Per Industrial Customer	8,919	8,913	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Stanfield</b>										
Total Thrms Pct. Growth		1.95%	1.93%	2.43%	1.35%	1.83%	1.79%	2.24%	1.26%	1.70%
Residential Thrms	237,016	242,703	248,427	255,491	259,938	265,664	271,389	278,445	282,860	288,586
Commercial Thrms	85,615	86,234	86,864	87,934	88,139	88,771	89,402	90,445	90,664	91,295
Industrial Thrms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>322,631</b>	<b>328,937</b>	<b>335,291</b>	<b>343,425</b>	<b>348,078</b>	<b>354,434</b>	<b>360,790</b>	<b>368,890</b>	<b>373,524</b>	<b>379,881</b>
Daily BaseLoad Thrms	134	136	139	142	145	148	150	147	152	153
Peak Day Thrms	2,797	2,854	2,911	2,909	2,965	3,076	3,133	3,184	3,241	3,240
Thrms Per Residential Customer	670	668	665	663	661	659	658	659	654	653
Thrms Per Commercial Customer	2,400	2,336	2,286	2,250	2,199	2,161	2,124	2,095	2,045	2,006
Thrms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	354	364	373	383	393	403	413	423	432	442
Commercial Customers	36	37	38	39	40	41	42	43	44	46
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>389</b>	<b>400</b>	<b>411</b>	<b>422</b>	<b>433</b>	<b>444</b>	<b>455</b>	<b>466</b>	<b>477</b>	<b>488</b>
<b>Stearns (Sunriver)</b>										
Total Thrms Pct. Growth		0.99%	0.98%	1.47%	0.47%	0.95%	0.95%	1.44%	0.43%	0.92%
Residential Thrms	3,879,886	3,928,359	3,976,739	4,046,126	4,073,703	4,122,151	4,170,609	4,241,236	4,267,740	4,316,228
Commercial Thrms	1,140,793	1,142,846	1,144,860	1,151,656	1,148,856	1,150,870	1,152,884	1,159,833	1,156,920	1,158,934
Industrial Thrms	44,925	44,774	44,560	44,519	44,130	43,915	43,700	43,658	43,270	43,055
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>5,065,605</b>	<b>5,115,979</b>	<b>5,166,159</b>	<b>5,242,300</b>	<b>5,266,689</b>	<b>5,316,936</b>	<b>5,367,193</b>	<b>5,444,726</b>	<b>5,467,930</b>	<b>5,518,216</b>
Daily BaseLoad Thrms	5,576	5,618	5,658	5,714	5,753	5,792	5,835	5,900	5,936	5,972
Peak Day Thrms	41,683	42,110	42,535	43,097	43,524	43,854	44,279	44,747	45,174	45,699
Thrms Per Residential Customer	1,024	1,024	1,024	1,029	1,024	1,024	1,024	1,030	1,024	1,024
Thrms Per Commercial Customer	5,195	5,195	5,204	5,213	5,198	5,202	5,193	5,224	5,198	5,197
Thrms Per Industrial Customer	14,975	14,925	14,853	14,840	14,710	14,638	14,567	14,553	14,423	14,352
Residential Customers	3,790	3,837	3,884	3,931	3,978	4,025	4,072	4,119	4,166	4,213
Commercial Customers	220	220	220	221	221	221	222	222	223	223
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,013</b>	<b>4,060</b>	<b>4,107</b>	<b>4,155</b>	<b>4,202</b>	<b>4,250</b>	<b>4,297</b>	<b>4,344</b>	<b>4,392</b>	<b>4,439</b>
<b>Sumas SPE Loop</b>										
Total Thrms Pct. Growth		0.99%	1.02%	1.45%	0.62%	1.02%	1.02%	1.36%	0.68%	1.02%
Residential Thrms	32,057,722	32,320,540	32,596,014	33,020,609	33,165,809	33,450,560	33,738,440	34,149,157	34,323,061	34,620,453
Commercial Thrms	16,876,423	17,059,433	17,249,782	17,514,876	17,642,206	17,838,967	18,037,892	18,297,468	18,441,966	18,647,463
Industrial Thrms	1,972,772	2,028,983	2,086,441	2,151,658	2,203,881	2,263,276	2,323,323	2,389,533	2,445,245	2,507,276
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>50,906,917</b>	<b>51,408,956</b>	<b>51,932,237</b>	<b>52,687,143</b>	<b>53,011,897</b>	<b>53,552,802</b>	<b>54,099,655</b>	<b>54,836,157</b>	<b>55,210,272</b>	<b>55,775,192</b>
Daily BaseLoad Thrms	28,947	29,244	13,774	14,164	30,208	30,523	30,838	14,507	20,480	15,088
Peak Day Thrms	476,417	481,430	486,493	474,142	479,147	501,020	506,308	510,618	516,020	503,971
Thrms Per Residential Customer	698	694	691	691	685	682	679	679	674	671
Thrms Per Commercial Customer	3,084	3,057	3,033	3,022	2,989	2,968	2,948	2,938	2,910	2,893
Thrms Per Industrial Customer	24,506	24,227	23,982	23,863	23,592	23,413	23,233	23,162	22,960	22,845
Residential Customers	45,945	46,568	47,191	47,816	48,441	49,066	49,691	50,319	50,946	51,573
Commercial Customers	5,472	5,580	5,687	5,795	5,903	6,011	6,120	6,228	6,337	6,446
Industrial Customers	81	84	87	90	93	97	100	103	107	110
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>51,498</b>	<b>52,231</b>	<b>52,966</b>	<b>53,702</b>	<b>54,438</b>	<b>55,174</b>	<b>55,911</b>	<b>56,650</b>	<b>57,389</b>	<b>58,129</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

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	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Sunnyside</b>										
Total Therms Pct. Growth		1.52%	1.50%	1.93%	0.97%	1.37%	1.33%	1.70%	0.82%	1.19%
Residential Therms	1,081,354	1,098,026	1,114,734	1,137,150	1,147,734	1,163,725	1,179,400	1,200,249	1,209,600	1,224,175
Commercial Therms	1,751,875	1,780,031	1,808,248	1,844,715	1,884,013	1,891,020	1,917,492	1,951,417	1,968,527	1,993,140
Industrial Therms	655,781	663,944	672,165	682,741	688,462	696,330	704,042	713,720	718,920	726,090
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,489,011</b>	<b>3,542,000</b>	<b>3,595,146</b>	<b>3,664,606</b>	<b>3,700,209</b>	<b>3,751,075</b>	<b>3,800,935</b>	<b>3,865,486</b>	<b>3,897,047</b>	<b>3,943,404</b>
Daily Baseload Therms	2,613	2,635	2,674	2,751	2,782	2,849	2,849	2,872	2,927	2,974
Peak Day Therms	23,664	24,021	24,374	24,164	24,500	25,447	25,777	26,142	26,456	26,714
Therms Per Residential Customer	547	547	547	550	547	547	547	549	545	544
Therms Per Commercial Customer	3,264	3,265	3,261	3,278	3,263	3,256	3,256	3,265	3,248	3,244
Therms Per Industrial Customer	38,575	38,865	37,342	37,930	38,248	38,685	37,886	37,564	37,838	38,215
Residential Customers	1,976	2,006	2,036	2,067	2,097	2,128	2,158	2,188	2,219	2,249
Commercial Customers	537	545	555	563	571	580	589	598	606	615
Industrial Customers	17	17	18	18	18	18	19	19	19	19
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,529</b>	<b>2,568</b>	<b>2,609</b>	<b>2,647</b>	<b>2,686</b>	<b>2,725</b>	<b>2,765</b>	<b>2,805</b>	<b>2,844</b>	<b>2,883</b>
<b>Umatilla</b>										
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.81%	1.21%	1.19%	1.61%	0.74%	1.15%
Residential Therms	432,169	445,766	459,350	475,372	486,571	500,154	513,737	530,085	540,974	554,557
Commercial Therms	486,423	495,696	504,955	516,692	523,505	532,763	542,021	553,984	560,587	569,845
Industrial Therms	984,925	986,258	987,576	992,145	990,193	991,511	992,826	997,469	995,458	996,779
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>1,903,516</b>	<b>1,927,720</b>	<b>1,951,880</b>	<b>1,984,210</b>	<b>2,000,268</b>	<b>2,024,428</b>	<b>2,048,585</b>	<b>2,081,539</b>	<b>2,097,019</b>	<b>2,121,180</b>
Daily Baseload Therms	2,329	2,350	2,370	2,379	2,398	2,418	2,439	2,452	2,470	2,488
Peak Day Therms	11,004	11,176	11,348	11,588	11,740	11,882	12,054	12,245	12,416	12,611
Therms Per Residential Customer	462	460	458	458	454	452	451	451	448	446
Therms Per Commercial Customer	3,380	3,382	3,381	3,392	3,374	3,370	3,372	3,390	3,370	3,369
Therms Per Industrial Customer	140,704	140,894	141,082	141,735	141,456	141,644	141,832	142,496	142,208	142,397
Residential Customers	936	970	1,004	1,038	1,072	1,106	1,140	1,174	1,208	1,243
Commercial Customers	144	147	149	152	155	158	161	163	166	169
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,087</b>	<b>1,123</b>	<b>1,160</b>	<b>1,197</b>	<b>1,234</b>	<b>1,271</b>	<b>1,308</b>	<b>1,345</b>	<b>1,382</b>	<b>1,419</b>
<b>Walla Walla</b>										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,000,250	7,103,774	7,197,773	7,325,836	7,384,609	7,478,611	7,568,970	7,689,151	7,742,311	7,826,390
Commercial Therms	6,379,907	6,442,665	6,498,956	6,583,972	6,611,092	6,667,301	6,720,957	6,799,273	6,823,224	6,872,466
Industrial Therms	204,006	210,829	217,165	224,392	229,768	236,121	242,299	249,225	254,297	260,178
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>13,584,164</b>	<b>13,757,268</b>	<b>13,913,894</b>	<b>14,134,200</b>	<b>14,225,469</b>	<b>14,382,032</b>	<b>14,532,227</b>	<b>14,737,649</b>	<b>14,819,832</b>	<b>14,959,034</b>
Daily Baseload Therms	11,161	11,230	11,346	11,559	11,687	11,817	11,865	11,901	12,062	12,221
Peak Day Therms	155,865	157,971	159,885	159,316	161,146	165,417	167,224	168,923	170,644	169,811
Therms Per Residential Customer	593	592	590	592	586	586	584	585	580	578
Therms Per Commercial Customer	4,803	4,778	4,752	4,746	4,700	4,675	4,650	4,643	4,600	4,575
Therms Per Industrial Customer	10,737	11,000	10,858	11,081	10,941	10,733	10,972	10,836	10,937	10,841
Residential Customers	11,804	11,999	12,192	12,385	12,577	12,769	12,961	13,152	13,342	13,532
Commercial Customers	1,328	1,348	1,368	1,387	1,407	1,426	1,445	1,464	1,483	1,502
Industrial Customers	19	19	20	20	21	22	22	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,151</b>	<b>13,367</b>	<b>13,580</b>	<b>13,792</b>	<b>14,005</b>	<b>14,217</b>	<b>14,428</b>	<b>14,639</b>	<b>14,849</b>	<b>15,058</b>
<b>Wenatchee</b>										
Total Therms Pct. Growth		0.77%	0.89%	1.40%	0.30%	0.84%	0.84%	1.28%	0.44%	0.85%
Residential Therms	598,248	603,041	608,028	616,405	618,232	623,222	628,213	636,081	638,216	643,206
Commercial Therms	3,670,074	3,689,651	3,714,692	3,759,073	3,745,708	3,789,848	3,814,299	3,855,761	3,865,434	3,891,220
Industrial Therms	361,419	372,622	383,928	397,048	406,705	418,016	429,328	442,275	451,990	463,302
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,629,740</b>	<b>4,665,314</b>	<b>4,706,648</b>	<b>4,772,526</b>	<b>4,790,644</b>	<b>4,831,087</b>	<b>4,871,839</b>	<b>4,934,118</b>	<b>4,955,640</b>	<b>4,997,728</b>
Daily Baseload Therms	4,173	4,161	4,203	4,324	4,366	4,408	4,399	4,368	4,463	4,559
Peak Day Therms	32,344	32,575	32,834	31,571	31,815	33,670	33,925	34,257	34,520	33,113
Therms Per Residential Customer	435	433	431	431	427	425	423	424	420	418
Therms Per Commercial Customer	5,301	5,280	5,270	5,285	5,249	5,237	5,226	5,237	5,207	5,198
Therms Per Industrial Customer	25,070	24,841	25,595	25,343	25,419	26,126	25,505	26,016	25,828	25,739
Residential Customers	1,376	1,394	1,412	1,430	1,448	1,466	1,484	1,502	1,519	1,537
Commercial Customers	692	699	705	711	717	724	730	736	742	749
Industrial Customers	14	15	15	16	16	16	17	17	18	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,083</b>	<b>2,108</b>	<b>2,132</b>	<b>2,157</b>	<b>2,181</b>	<b>2,205</b>	<b>2,230</b>	<b>2,255</b>	<b>2,279</b>	<b>2,304</b>
<b>Woodland</b>										
Total Therms Pct. Growth		3.32%	3.29%	3.73%	2.64%	3.00%	2.91%	3.12%	2.47%	2.68%
Residential Therms	450,646	469,334	488,333	510,083	526,789	545,828	564,871	585,837	603,007	622,066
Commercial Therms	791,077	807,792	825,261	847,694	861,148	878,667	896,190	916,434	931,304	948,847
Industrial Therms	690,100	718,780	747,972	780,781	807,115	836,351	865,587	896,907	924,130	953,366
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>1,931,823</b>	<b>1,995,906</b>	<b>2,061,566</b>	<b>2,138,558</b>	<b>2,195,052</b>	<b>2,260,846</b>	<b>2,326,649</b>	<b>2,399,178</b>	<b>2,458,440</b>	<b>2,524,279</b>
Daily Baseload Therms	2,270	2,333	2,029	2,013	2,780	2,657	2,747	2,396	2,926	2,402
Peak Day Therms	13,534	13,989	14,444	13,124	13,527	15,810	16,265	16,720	17,176	15,542
Therms Per Residential Customer	589	590	592	597	596	598	599	602	602	603
Therms Per Commercial Customer	3,475	3,455	3,435	3,437	3,406	3,389	3,373	3,371	3,344	3,332
Therms Per Industrial Customer	38,697	39,748	39,367	39,367	40,188	39,826	39,645	40,615	40,180	40,001
Residential Customers	765	795	824	854	884	913	943	973	1,002	1,032
Commercial Customers	228	234	240	247	253	259	266	272	279	285
Industrial Customers	18	18	19	20	20	21	22	22	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,011</b>	<b>1,047</b>	<b>1,084</b>	<b>1,121</b>	<b>1,157</b>	<b>1,194</b>	<b>1,231</b>	<b>1,266</b>	<b>1,304</b>	<b>1,341</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Yakima Chief Ranch</b>										
Total Therms Pct. Growth		-0.03%	-0.02%	0.11%	-0.05%	-0.04%	-0.03%	0.13%	-0.05%	-0.04%
Residential Therms	336,088	335,992	335,923	336,288	336,114	335,979	335,863	336,305	336,134	335,994
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	336,088	335,992	335,923	336,288	336,114	335,979	335,863	336,305	336,134	335,994
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	168,044	167,996	167,962	168,144	168,057	167,990	167,931	168,152	168,067	167,997
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	2	2	2	2	2	2	2	2	2	2
<b>Yakima Loop</b>										
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	12,966,414	13,167,723	13,370,929	13,647,025	13,774,154	13,968,661	14,159,320	14,413,058	14,526,991	14,704,253
Commercial Therms	13,179,609	13,412,326	13,646,794	13,952,094	14,111,810	14,336,243	14,556,237	14,835,748	14,980,341	15,184,878
Industrial Therms	3,212,531	3,320,042	3,427,354	3,550,011	3,639,733	3,742,462	3,843,158	3,955,063	4,037,289	4,130,910
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	29,358,554	29,900,090	30,445,017	31,149,130	31,525,698	32,047,366	32,558,716	33,203,870	33,544,621	34,020,041
Daily Baseload Therms	19,901	20,035	20,439	21,376	21,716	22,098	22,264	22,281	22,960	23,440
Peak Day Therms	256,941	261,571	266,140	261,682	266,003	279,729	284,028	288,389	292,486	286,385
Therms Per Residential Customer	658	659	660	665	662	662	663	666	663	662
Therms Per Commercial Customer	3,695	3,702	3,709	3,735	3,722	3,727	3,730	3,748	3,731	3,731
Therms Per Industrial Customer	36,062	36,186	36,268	36,473	36,246	36,305	36,342	36,480	36,372	36,342
Residential Customers	19,696	19,974	20,253	20,532	20,810	21,089	21,367	21,646	21,925	22,204
Commercial Customers	3,567	3,623	3,679	3,735	3,791	3,847	3,903	3,959	4,015	4,070
Industrial Customers	89	92	95	97	100	103	106	108	111	114
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	23,352	23,689	24,026	24,364	24,702	25,039	25,376	25,713	26,051	26,388
<b>Yakima Training Center</b>										
Total Therms Pct. Growth		0.62%	0.62%	1.22%	0.00%	0.58%	0.57%	1.13%	-0.05%	0.52%
Residential Therms	18,287	18,646	19,005	19,467	19,712	20,056	20,392	20,826	21,040	21,353
Commercial Therms	350,598	352,524	354,456	358,537	358,293	360,140	361,952	365,850	365,443	367,137
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	368,885	371,170	373,461	378,005	378,006	380,195	382,344	386,676	386,483	388,491
Daily Baseload Therms	44	46	47	44	45	45	47	46	47	47
Peak Day Therms	3,519	3,541	3,563	3,554	3,576	3,626	3,646	3,665	3,685	3,674
Therms Per Residential Customer	789	777	781	779	771	771	758	769	751	758
Therms Per Commercial Customer	3,229	3,222	3,230	3,247	3,228	3,230	3,232	3,252	3,234	3,235
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	23	24	24	25	26	26	27	27	28	28
Commercial Customers	109	109	110	110	111	112	112	113	113	114
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	132	133	134	135	137	138	139	140	141	142
<b>Zillah (Toppenish)</b>										
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.49%	0.72%
Residential Therms	1,049,414	1,056,218	1,063,603	1,077,450	1,079,522	1,086,597	1,092,844	1,102,980	1,107,346	1,113,925
Commercial Therms	1,943,414	1,967,447	1,993,169	2,030,657	2,045,932	2,070,574	2,094,729	2,124,057	2,141,294	2,163,752
Industrial Therms	783,092	782,293	782,262	784,252	783,061	783,061	783,095	784,645	783,061	783,061
Ind., Inst., & Cmcl. Interrup. Therms	66,678	67,032	67,463	68,006	68,226	68,599	69,015	69,403	69,787	70,132
<b>Total Core Therms</b>	3,842,998	3,872,989	3,906,496	3,962,365	3,976,741	4,008,831	4,040,684	4,082,086	4,101,487	4,130,869
Daily Baseload Therms	2,855	2,898	1,127	1,189	3,199	2,892	3,025	1,181	2,318	1,201
Peak Day Therms	34,049	34,353	34,654	30,882	31,140	35,583	35,864	36,190	36,457	32,398
Therms Per Residential Customer	547	546	545	544	544	543	542	543	540	539
Therms Per Commercial Customer	3,742	3,737	3,735	3,755	3,733	3,729	3,725	3,729	3,713	3,705
Therms Per Industrial Customer	32,629	32,596	31,290	31,450	31,322	31,220	31,220	30,179	30,118	30,118
Residential Customers	1,920	1,936	1,952	1,969	1,985	2,001	2,017	2,033	2,049	2,066
Commercial Customers	519	526	534	541	548	555	562	570	577	584
Industrial Customers	24	24	25	25	25	25	25	26	26	26
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	2,464	2,488	2,512	2,535	2,559	2,582	2,606	2,630	2,653	2,677
<b>Zone 10</b>										
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,314,967	3,345,764	3,377,763	3,426,421	3,443,197	3,473,859	3,504,292	3,545,807	3,563,016	3,591,175
Commercial Therms	6,414,519	6,651,666	6,890,704	7,158,171	7,366,205	7,595,659	7,820,623	8,057,196	8,254,673	8,464,139
Industrial Therms	1,722,701	1,729,891	1,738,079	1,753,343	1,765,343	1,770,957	1,782,210	1,782,901	1,785,799	1,792,972
Ind., Inst., & Cmcl. Interrup. Therms	66,678	67,032	67,463	68,006	68,226	68,599	69,015	69,403	69,787	70,132
<b>Total Core Therms</b>	11,518,865	11,794,354	12,074,029	12,408,460	12,632,972	12,901,326	13,164,887	13,455,307	13,673,275	13,918,418
Daily Baseload Therms	8,168	8,372	7,484	7,799	10,019	9,219	9,445	8,734	10,164	9,214
Peak Day Therms	76,886	78,128	79,357	72,921	73,935	83,121	84,271	85,579	86,672	78,854
Therms Per Residential Customer	618	617	616	618	614	613	612	613	609	608
Therms Per Commercial Customer	4,619	4,718	4,816	4,934	5,007	5,093	5,168	5,254	5,313	5,378
Therms Per Industrial Customer	29,702	29,783	28,968	29,231	29,256	29,387	29,192	28,756	28,803	28,919
Residential Customers	5,361	5,422	5,483	5,543	5,604	5,665	5,725	5,786	5,847	5,907
Commercial Customers	1,389	1,410	1,431	1,451	1,471	1,491	1,513	1,534	1,554	1,574
Industrial Customers	58	58	60	60	60	60	61	62	62	62
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	6,809	6,891	6,975	7,055	7,136	7,217	7,300	7,383	7,463	7,544

**Appendix B  
Demand Forecast  
Expected Scenario**

<b>Zone 11</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.67%	1.66%	2.14%	1.07%	1.52%	1.47%	1.85%	0.93%	1.32%
Residential Therms	14,470,480	14,470,784	14,691,233	14,991,294	15,120,882	15,340,114	15,547,261	15,823,309	15,947,072	16,140,014
Commercial Therms	18,444,431	18,739,985	19,041,173	19,439,917	19,637,615	19,926,191	20,209,472	20,576,612	20,759,527	21,025,936
Industrial Therms	4,344,104	4,447,614	4,551,217	4,673,476	4,756,849	4,856,227	4,953,770	5,065,889	5,142,616	5,233,977
Ind., Inst., & Cmc. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>37,041,014</b>	<b>37,658,383</b>	<b>38,283,623</b>	<b>39,104,786</b>	<b>39,523,346</b>	<b>40,122,531</b>	<b>40,710,502</b>	<b>41,464,811</b>	<b>41,849,215</b>	<b>42,399,927</b>
Daily Baseload Therms	25,735	25,909	26,436	27,606	28,023	28,306	28,487	28,540	29,469	30,269
Peak Day Therms	307,993	313,159	318,303	312,429	317,264	333,679	338,503	343,583	348,197	340,342
Therms Per Residential Customer	641	641	642	646	642	643	642	645	642	641
Therms Per Commercial Customer	4,091	4,095	4,101	4,127	4,110	4,113	4,114	4,132	4,114	4,114
Therms Per Industrial Customer	35,656	35,510	35,556	35,517	35,214	35,233	35,030	35,078	34,806	34,662
Residential Customers	22,241	22,567	22,893	23,221	23,548	23,874	24,199	24,525	24,851	25,175
Commercial Customers	4,509	4,577	4,643	4,711	4,778	4,845	4,912	4,979	5,046	5,113
Industrial Customers	122	125	128	132	135	138	141	144	148	151
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>26,872</b>	<b>27,248</b>	<b>27,665</b>	<b>28,063</b>	<b>28,461</b>	<b>28,856</b>	<b>29,253</b>	<b>29,648</b>	<b>30,045</b>	<b>30,439</b>
<b>Zone 20</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	17,450,239	17,861,083	18,246,808	18,732,760	19,024,773	19,419,587	19,808,462	20,288,944	20,573,402	20,954,029
Commercial Therms	19,661,222	20,014,808	20,347,502	20,780,078	21,020,939	21,360,913	21,696,573	22,125,717	22,364,869	22,699,222
Industrial Therms	978,865	987,902	996,653	1,009,856	1,015,448	1,024,976	1,034,688	1,048,412	1,054,054	1,063,966
Ind., Inst., & Cmc. Interup. Therms	290,381	290,346	290,346	291,594	290,381	290,381	291,523	290,381	290,381	290,381
<b>Total Core Therms</b>	<b>38,380,706</b>	<b>39,154,139</b>	<b>39,881,309</b>	<b>40,814,288</b>	<b>41,351,541</b>	<b>42,095,888</b>	<b>42,830,085</b>	<b>43,754,957</b>	<b>44,262,707</b>	<b>45,007,598</b>
Daily Baseload Therms	33,465	34,005	34,051	34,619	35,888	36,468	37,020	37,055	37,967	37,984
Peak Day Therms	399,140	414,931	420,347	419,626	424,993	437,521	443,015	449,198	454,643	452,480
Therms Per Residential Customer	552	547	542	541	533	529	526	524	518	515
Therms Per Commercial Customer	4,354	4,335	4,314	4,315	4,276	4,259	4,241	4,243	4,209	4,195
Therms Per Industrial Customer	23,875	24,095	23,730	24,044	24,177	24,404	24,635	24,962	24,513	24,743
Residential Customers	31,613	32,631	33,641	34,653	35,664	36,675	37,685	38,694	39,701	40,707
Commercial Customers	4,515	4,617	4,717	4,816	4,916	5,016	5,116	5,215	5,313	5,411
Industrial Customers	41	41	42	42	42	42	42	42	43	43
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>36,171</b>	<b>37,291</b>	<b>38,402</b>	<b>39,513</b>	<b>40,624</b>	<b>41,735</b>	<b>42,845</b>	<b>43,953</b>	<b>45,060</b>	<b>46,163</b>
<b>Zone 24</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,480,099	4,524,180	4,568,886	4,638,361	4,659,159	4,703,560	4,747,767	4,815,053	4,836,089	4,879,916
Commercial Therms	4,200,326	4,249,610	4,299,567	4,372,108	4,400,510	4,450,513	4,500,542	4,571,846	4,600,865	4,650,936
Industrial Therms	621,944	636,023	650,149	666,503	678,832	693,719	709,042	726,292	740,594	756,793
Ind., Inst., & Cmc. Interup. Therms	913,777	913,649	913,651	918,270	913,777	913,778	913,780	913,012	913,777	913,778
<b>Total Core Therms</b>	<b>10,216,146</b>	<b>10,323,462</b>	<b>10,432,252</b>	<b>10,595,242</b>	<b>10,652,279</b>	<b>10,761,571</b>	<b>10,871,131</b>	<b>11,031,203</b>	<b>11,091,325</b>	<b>11,201,424</b>
Daily Baseload Therms	5,962	6,027	6,104	6,193	6,235	6,291	6,355	6,413	6,515	6,599
Peak Day Therms	84,068	84,914	85,759	84,892	85,716	88,446	89,291	90,294	91,138	89,966
Therms Per Residential Customer	608	607	607	610	606	606	605	608	605	604
Therms Per Commercial Customer	2,838	2,837	2,836	2,851	2,837	2,837	2,836	2,849	2,837	2,838
Therms Per Industrial Customer	23,396	23,340	23,082	23,116	23,011	22,933	22,750	22,875	22,788	22,761
Residential Customers	7,374	7,452	7,531	7,609	7,687	7,765	7,843	7,920	7,997	8,074
Commercial Customers	1,480	1,498	1,516	1,533	1,551	1,569	1,587	1,605	1,622	1,639
Industrial Customers	27	27	28	29	30	30	31	32	33	33
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>8,882</b>	<b>8,979</b>	<b>9,076</b>	<b>9,172</b>	<b>9,269</b>	<b>9,365</b>	<b>9,461</b>	<b>9,557</b>	<b>9,652</b>	<b>9,747</b>
<b>Zone 26</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,642,414	1,692,240	1,742,721	1,801,071	1,844,444	1,895,155	1,945,644	2,002,525	2,046,849	2,097,352
Commercial Therms	5,756,603	5,829,624	5,904,801	6,003,866	6,057,885	6,133,144	6,208,407	6,359,241	6,359,241	6,434,524
Industrial Therms	888,444	913,354	938,816	968,503	990,524	1,016,043	1,041,565	1,069,589	1,092,661	1,118,200
Ind., Inst., & Cmc. Interup. Therms	88,753	88,716	88,706	89,042	88,695	88,723	88,757	89,003	88,727	88,710
<b>Total Core Therms</b>	<b>8,376,235</b>	<b>8,523,950</b>	<b>8,675,054</b>	<b>8,862,483</b>	<b>8,981,749</b>	<b>9,133,064</b>	<b>9,284,394</b>	<b>9,462,695</b>	<b>9,587,478</b>	<b>9,738,786</b>
Daily Baseload Therms	7,712	7,846	7,978	8,139	8,578	8,507	8,549	8,610	8,020	7,036
Peak Day Therms	73,932	75,195	76,457	74,150	75,337	80,357	81,618	82,997	84,258	81,379
Therms Per Residential Customer	524	523	523	525	522	522	521	523	521	520
Therms Per Commercial Customer	4,581	4,560	4,541	4,540	4,506	4,488	4,472	4,469	4,439	4,423
Therms Per Industrial Customer	27,060	27,608	27,612	27,804	28,233	28,223	28,278	28,843	28,754	28,795
Residential Customers	3,134	3,234	3,333	3,434	3,533	3,633	3,732	3,832	3,931	4,031
Commercial Customers	1,257	1,278	1,300	1,322	1,344	1,366	1,388	1,410	1,433	1,455
Industrial Customers	33	33	34	35	35	36	37	38	38	39
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>4,425</b>	<b>4,546</b>	<b>4,669</b>	<b>4,792</b>	<b>4,913</b>	<b>5,036</b>	<b>5,158</b>	<b>5,280</b>	<b>5,403</b>	<b>5,525</b>
<b>Zone 30-S</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	25,855,682	26,247,999	26,643,124	27,160,186	27,438,198	27,833,435	28,228,672	28,743,296	29,020,740	29,415,991
Commercial Therms	15,688,591	15,908,835	16,130,081	16,420,931	16,575,947	16,797,190	17,018,497	17,305,850	17,462,023	17,683,412
Industrial Therms	658,291	661,891	665,594	672,124	676,838	680,547	686,829	688,829	687,962	691,695
Ind., Inst., & Cmc. Interup. Therms	1,673,759	1,676,136	1,676,202	1,682,778	1,676,333	1,676,333	1,676,333	1,682,519	1,676,333	1,676,333
<b>Total Core Therms</b>	<b>43,876,323</b>	<b>44,494,860</b>	<b>45,115,001</b>	<b>45,936,018</b>	<b>46,363,607</b>	<b>46,963,796</b>	<b>47,604,050</b>	<b>48,418,495</b>	<b>48,847,079</b>	<b>49,467,430</b>
Daily Baseload Therms	38,674	39,233	38,730	39,326	40,747	41,268	41,826	41,360	42,618	42,423
Peak Day Therms	336,389	341,175	345,957	345,535	350,254	360,603	365,383	370,472	375,254	374,135
Therms Per Residential Customer	683	682	682	684	681	680	680	682	679	679
Therms Per Commercial Customer	4,027	4,023	4,020	4,034	4,015	4,011	4,009	4,021	4,003	4,001
Therms Per Industrial Customer	23,510	23,639	23,771	24,004	24,040	24,173	24,305	24,530	24,571	24,703
Residential Customers	37,851	38,461	39,072	39,685	40,296	40,906	41,517	42,129	42,740	43,352
Commercial Customers	3,896	3,954	4,012	4,070	4,129	4,187	4,245	4,304	4,362	4,420
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>41,777</b>	<b>42,446</b>	<b>43,114</b>	<b>43,785</b>	<b>44,454</b>	<b>45,124</b>	<b>45,792</b>	<b>46,463</b>	<b>47,132</b>	<b>47,802</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

Zone 30-W	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.95%	0.97%	1.40%	0.55%	0.97%	0.97%	1.33%	0.59%	0.96%
Residential Therms	58,480,783	58,972,279	59,485,762	60,267,470	60,533,041	61,057,039	61,584,954	62,351,198	62,652,647	63,193,259
Commercial Therms	32,544,649	32,894,376	33,250,566	33,751,875	33,980,533	34,346,918	34,715,810	35,211,073	35,461,414	35,838,666
Industrial Therms	4,010,658	4,073,074	4,136,633	4,215,445	4,264,939	4,332,783	4,399,239	4,478,455	4,533,931	4,602,324
Ind., Inst., & Cmcl. Interup. Therms	83,640	83,644	83,644	83,752	83,870	83,470	83,470	83,740	83,470	83,470
<b>Total Core Therms</b>	<b>95,119,550</b>	<b>96,026,193</b>	<b>96,956,444</b>	<b>98,318,542</b>	<b>98,863,984</b>	<b>99,820,210</b>	<b>100,783,475</b>	<b>102,124,465</b>	<b>102,731,483</b>	<b>103,717,719</b>
Daily BaseLoad Therms	70,469	71,137	54,553	54,605	73,140	73,752	74,446	57,505	64,129	57,475
Peak Day Therms	765,091	772,688	780,318	765,249	772,805	803,196	811,105	818,610	826,654	811,084
Therms Per Residential Customer	678	675	672	672	666	663	661	661	656	654
Therms Per Commercial Customer	3,104	3,088	3,074	3,073	3,048	3,036	3,024	3,023	3,002	2,991
Therms Per Industrial Customer	19,733	19,629	19,582	19,592	19,432	19,300	19,225	19,228	19,117	19,057
Residential Customers	86,288	87,435	88,584	89,734	90,883	92,032	93,182	94,336	95,487	96,639
Commercial Customers	10,484	10,651	10,816	10,982	11,147	11,313	11,480	11,647	11,813	11,980
Industrial Customers	203	208	211	215	220	225	229	233	237	242
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>96,977</b>	<b>98,295</b>	<b>99,612</b>	<b>100,932</b>	<b>102,251</b>	<b>103,571</b>	<b>104,892</b>	<b>106,217</b>	<b>107,539</b>	<b>108,861</b>

Zone GTN	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	38,869,086	40,064,001	41,258,746	42,684,737	43,660,971	44,858,202	46,055,680	47,490,209	48,455,244	49,653,488
Commercial Therms	22,010,296	22,355,185	22,690,104	23,148,308	23,367,174	23,703,527	24,040,089	24,490,364	24,715,472	25,052,571
Industrial Therms	3,051,655	3,138,718	3,226,396	3,330,634	3,403,202	3,491,239	3,579,301	3,682,625	3,755,682	3,843,838
Ind., Inst., & Cmcl. Interup. Therms	293,016	292,929	292,939	294,556	293,016	293,016	294,401	293,016	293,016	293,016
<b>Total Core Therms</b>	<b>64,224,054</b>	<b>65,850,844</b>	<b>67,468,184</b>	<b>69,458,235</b>	<b>70,724,363</b>	<b>72,345,985</b>	<b>73,946,086</b>	<b>75,961,599</b>	<b>77,219,414</b>	<b>78,842,013</b>
Daily BaseLoad Therms	49,583	50,897	52,116	53,408	54,390	55,601	56,962	58,348	59,723	60,788
Peak Day Therms	614,448	630,095	645,695	650,777	666,150	692,759	708,401	724,232	739,886	743,281
Therms Per Residential Customer	768	768	768	772	767	767	767	771	767	767
Therms Per Commercial Customer	3,128	3,127	3,124	3,138	3,120	3,118	3,115	3,128	3,111	3,109
Therms Per Industrial Customer	27,410	27,353	27,381	27,545	27,408	27,382	27,340	27,482	27,397	27,375
Residential Customers	50,620	52,188	53,754	55,323	56,891	58,460	60,029	61,602	63,172	64,743
Commercial Customers	7,036	7,149	7,263	7,377	7,489	7,602	7,717	7,830	7,945	8,059
Industrial Customers	111	115	118	121	124	128	131	134	137	140
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>57,768</b>	<b>59,452</b>	<b>61,135</b>	<b>62,822</b>	<b>64,505</b>	<b>66,191</b>	<b>67,878</b>	<b>69,567</b>	<b>71,254</b>	<b>72,943</b>

Zone ME-OR	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.11%	1.12%	1.61%	0.62%	1.08%	1.07%	1.50%	0.62%	1.04%
Residential Therms	6,157,677	6,248,639	6,340,960	6,467,940	6,527,549	6,619,890	6,712,306	6,836,703	6,897,630	6,989,911
Commercial Therms	6,768,686	6,845,984	6,924,701	7,037,756	7,084,004	7,162,725	7,241,493	7,351,409	7,399,449	7,478,126
Industrial Therms	1,377,068	1,383,188	1,389,393	1,401,021	1,401,851	1,408,039	1,414,239	1,425,682	1,426,711	1,432,879
Ind., Inst., & Cmcl. Interup. Therms	1,380,053	1,379,720	1,379,720	1,385,664	1,380,053	1,380,053	1,380,054	1,384,997	1,380,053	1,380,053
<b>Total Core Therms</b>	<b>15,683,483</b>	<b>15,857,530</b>	<b>16,034,774</b>	<b>16,292,381</b>	<b>16,393,457</b>	<b>16,570,708</b>	<b>16,748,093</b>	<b>16,998,791</b>	<b>17,103,842</b>	<b>17,280,969</b>
Daily BaseLoad Therms	14,261	14,410	14,506	14,647	14,784	14,934	15,091	15,193	15,410	15,464
Peak Day Therms	136,054	137,560	139,064	137,367	138,829	143,829	145,330	147,096	148,598	146,389
Therms Per Residential Customer	540	539	537	535	533	533	532	533	529	529
Therms Per Commercial Customer	3,568	3,563	3,559	3,571	3,549	3,545	3,540	3,551	3,533	3,529
Therms Per Industrial Customer	52,460	51,229	50,987	51,414	51,444	49,990	50,062	50,467	50,503	48,987
Residential Customers	11,398	11,601	11,803	12,006	12,209	12,411	12,613	12,815	13,018	13,220
Commercial Customers	1,897	1,921	1,946	1,971	1,996	2,021	2,045	2,070	2,094	2,119
Industrial Customers	26	27	27	27	27	28	28	28	28	29
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>13,324</b>	<b>13,551</b>	<b>13,778</b>	<b>14,006</b>	<b>14,234</b>	<b>14,461</b>	<b>14,688</b>	<b>14,916</b>	<b>15,142</b>	<b>15,371</b>

Zone ME-WA	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,000,250	7,103,714	7,197,773	7,325,834	7,384,400	7,478,611	7,568,970	7,689,151	7,742,311	7,826,390
Commercial Therms	6,379,907	6,442,665	6,498,956	6,583,972	6,611,992	6,667,301	6,720,957	6,799,273	6,823,224	6,872,466
Industrial Therms	204,006	210,829	217,165	224,392	229,748	236,121	242,299	249,225	254,297	260,178
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>13,584,164</b>	<b>13,757,208</b>	<b>13,913,894</b>	<b>14,134,204</b>	<b>14,225,469</b>	<b>14,382,032</b>	<b>14,532,227</b>	<b>14,737,649</b>	<b>14,819,832</b>	<b>14,959,034</b>
Daily BaseLoad Therms	11,161	11,230	11,346	11,559	11,687	11,817	11,865	11,901	12,062	12,221
Peak Day Therms	155,865	157,971	159,855	159,316	161,146	165,417	167,224	168,923	170,644	169,811
Therms Per Residential Customer	593	592	590	592	587	586	584	585	580	578
Therms Per Commercial Customer	4,803	4,778	4,752	4,746	4,700	4,675	4,650	4,643	4,600	4,575
Therms Per Industrial Customer	10,737	11,000	10,858	11,081	10,941	10,733	10,972	10,836	10,937	10,841
Residential Customers	11,804	11,999	12,192	12,385	12,577	12,769	12,961	13,152	13,342	13,532
Commercial Customers	1,328	1,348	1,368	1,387	1,407	1,426	1,445	1,464	1,483	1,502
Industrial Customers	19	19	20	20	21	22	22	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,151</b>	<b>13,367</b>	<b>13,580</b>	<b>13,792</b>	<b>14,005</b>	<b>14,217</b>	<b>14,428</b>	<b>14,639</b>	<b>14,849</b>	<b>15,058</b>

Oregon	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.37%	1.81%
Residential Therms	49,506,862	50,836,821	52,168,592	53,791,039	54,847,680	56,181,653	57,515,753	59,141,966	60,188,963	61,523,314
Commercial Therms	32,979,308	33,450,779	33,914,371	34,558,171	34,851,689	35,316,766	35,782,125	36,417,619	36,715,785	37,181,633
Industrial Therms	5,050,666	5,157,929	5,265,937	5,398,158	5,483,885	5,592,997	5,702,582	5,831,599	5,922,987	6,033,511
Ind., Inst., & Cmcl. Interup. Therms	2,588,846	2,586,308	2,586,310	2,598,490	2,588,846	2,588,846	2,588,850	2,597,410	2,588,846	2,588,846
<b>Total Core Therms</b>	<b>90,123,683</b>	<b>92,031,836</b>	<b>93,935,210</b>	<b>96,345,858</b>	<b>97,770,099</b>	<b>99,678,264</b>	<b>101,587,310</b>	<b>103,991,593</b>	<b>105,414,581</b>	<b>107,325,306</b>
Daily BaseLoad Therms	69,805	71,334	72,726	74,247	75,409	76,827	78,408	79,954	81,467	82,851
Peak Day Therms	834,590	852,549	870,518	873,035	890,695	925,034	943,021	961,621	979,622	979,666
Therms Per Residential Customer	713	714	714	718	714	714	715	715	715	716
Therms Per Commercial Customer	3,167	3,165	3,162	3,176	3,158	3,156	3,153	3,165	3,149	3,146
Therms Per Industrial Customer	30,765	30,520	30,395	30,498	30,312	30,083	29,961	30,075	29,939	29,734
Residential Customers	69,393	71,241	73,087	74,938	76,787	78,635	80,484	82,337	84,186	86,038
Commercial Customers	10,413	10,568	10,725	10,881	11,036	11,192	11,349	11,505	11,661	11,817
Industrial Customers	164	169	173	177	181	186	190	194	198	203
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	<b>79,974</b>	<b>81,982</b>	<b>83,989</b>	<b>86,000</b>	<b>88,008</b>	<b>90,017</b>	<b>92,027</b>	<b>94,040</b>	<b>96</b>	

Appendix B  
Demand Forecast  
Expected Scenario

Washington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.42%	1.39%	1.84%	0.91%	1.33%	1.31%	1.68%	0.87%	1.24%
Residential Therms	127,996,615	129,696,942	131,365,214	133,706,137	134,797,343	136,497,799	138,188,277	140,444,231	141,546,057	143,218,211
Commercial Therms	104,689,922	106,481,959	108,063,782	110,138,809	111,250,217	112,827,315	114,390,241	116,376,298	117,484,971	119,018,364
Industrial Therms	12,807,088	13,024,554	13,244,156	13,517,659	13,688,000	13,906,197	14,123,045	14,381,300	14,551,341	14,763,312
Ind., Inst., & Cmcl. Interup. Therms	2,203,032	2,205,691	2,206,181	2,215,172	2,207,106	2,207,507	2,207,957	2,216,189	2,208,699	2,209,026
<b>Total Core Therms</b>	<b>247,896,857</b>	<b>251,409,146</b>	<b>254,899,334</b>	<b>259,576,777</b>	<b>261,942,667</b>	<b>265,438,817</b>	<b>268,909,620</b>	<b>273,418,018</b>	<b>275,791,068</b>	<b>279,208,913</b>
Daily BaseLoad Therms	195,384	197,733	178,578	181,852	208,081	209,337	211,637	191,703	204,429	196,624
Peak Day Therms	2,025,295	2,053,248	2,080,594	2,049,226	2,075,734	2,163,895	2,191,118	2,219,362	2,246,323	2,208,084
Therms Per Residential Customer	645	643	640	641	636	633	631	631	627	624
Therms Per Commercial Customer	3,831	3,825	3,820	3,832	3,811	3,806	3,800	3,809	3,789	3,784
Therms Per Industrial Customer	25,415	25,434	25,311	25,417	25,313	25,269	25,227	25,256	25,125	25,093
Residential Customers	198,293	201,750	205,198	208,654	212,104	215,554	219,001	222,454	225,900	229,343
Commercial Customers	27,378	27,836	28,287	28,740	29,192	29,645	30,100	30,553	31,004	31,455
Industrial Customers	504	512	523	532	541	550	560	569	579	588
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
<b>Total Core Customers</b>	<b>226,182</b>	<b>230,104</b>	<b>234,016</b>	<b>237,933</b>	<b>241,844</b>	<b>245,757</b>	<b>249,668</b>	<b>253,583</b>	<b>257,490</b>	<b>261,393</b>
<b>System</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.60%	1.57%	2.03%	1.06%	1.50%	1.47%	1.87%	1.01%	1.40%
Residential Therms	177,503,677	180,533,763	183,553,806	187,496,176	189,645,023	192,679,452	195,704,030	199,586,197	201,735,020	204,741,525
Commercial Therms	137,869,230	139,932,739	141,978,153	144,696,980	146,101,905	148,144,080	150,172,465	152,793,917	154,200,757	156,199,997
Industrial Therms	17,857,755	18,182,483	18,510,094	18,915,817	19,171,885	19,499,194	19,825,628	20,215,899	20,474,328	20,796,823
Ind., Inst., & Cmcl. Interup. Therms	4,789,878	4,791,999	4,792,491	4,813,662	4,793,952	4,794,355	4,794,807	4,813,599	4,795,545	4,795,875
<b>Total Core Therms</b>	<b>338,020,540</b>	<b>343,440,983</b>	<b>348,834,544</b>	<b>355,922,635</b>	<b>359,712,766</b>	<b>365,117,082</b>	<b>370,496,930</b>	<b>377,409,611</b>	<b>381,205,649</b>	<b>386,534,219</b>
Daily BaseLoad Therms	265,189	269,067	251,304	256,099	283,489	286,164	290,046	271,658	286,076	279,474
Peak Day Therms	2,859,884	2,905,816	2,951,112	2,922,261	2,966,429	3,088,929	3,134,139	3,180,984	3,225,945	3,187,750
Therms Per Residential Customer	1,298	1,298	1,299	1,306	1,302	1,303	1,305	1,313	1,309	1,312
Therms Per Commercial Customer	4,224	4,243	4,255	4,295	4,286	4,302	4,316	4,349	4,345	4,357
Therms Per Industrial Customer	51,612	52,115	52,635	53,460	53,695	54,223	54,750	55,549	55,803	56,332
Residential Customers	267,686	272,990	278,285	283,592	288,891	294,189	299,485	304,791	310,086	315,380
Commercial Customers	37,791	38,404	39,012	39,621	40,229	40,837	41,449	42,058	42,665	43,272
Industrial Customers	668	681	697	709	722	736	750	763	777	791
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
<b>Total Core Customers</b>	<b>306,156</b>	<b>312,086</b>	<b>318,005</b>	<b>323,932</b>	<b>329,852</b>	<b>335,773</b>	<b>341,695</b>	<b>347,623</b>	<b>353,539</b>	<b>359,455</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

7th Day School	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,930</b>	<b>29,106</b>	<b>28,926</b>	<b>28,929</b>	<b>28,931</b>	<b>29,106</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	222	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,935	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Acme</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Therms	53,997	54,442	54,446	54,677	54,919	55,378	55,396	55,638	55,874	56,347
Commercial Therms	30,307	30,429	30,303	30,303	30,307	30,429	30,307	30,307	30,303	30,425
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>84,305</b>	<b>84,871</b>	<b>84,749</b>	<b>84,981</b>	<b>85,226</b>	<b>85,807</b>	<b>85,703</b>	<b>85,945</b>	<b>86,177</b>	<b>86,772</b>
Daily BaseLoad Therms	57	57	58	58	58	58	58	58	59	59
Peak Day Therms	768	783	785	787	789	799	794	796	798	801
Therms Per Residential Customer	771	778	767	770	774	780	780	773	776	783
Therms Per Commercial Customer	3,367	3,381	3,367	3,367	3,367	3,381	3,367	3,367	3,367	3,381
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	70	70	71	71	71	71	71	72	72	72
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>79</b>	<b>79</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>81</b>	<b>81</b>	<b>81</b>
<b>Arlington</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Therms	3,459,084	3,493,071	3,496,419	3,515,217	3,534,651	3,568,228	3,571,439	3,589,701	3,607,090	3,640,722
Commercial Therms	2,437,559	2,484,640	2,510,673	2,546,988	2,583,567	2,629,823	2,654,661	2,689,940	2,724,494	2,770,824
Industrial Therms	502,362	511,776	516,937	524,183	531,488	540,736	545,666	552,706	559,597	568,856
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>6,399,005</b>	<b>6,489,487</b>	<b>6,524,029</b>	<b>6,586,389</b>	<b>6,649,706</b>	<b>6,738,788</b>	<b>6,771,766</b>	<b>6,832,348</b>	<b>6,891,181</b>	<b>6,980,402</b>
Daily BaseLoad Therms	5,914	6,017	6,128	6,195	6,266	6,219	6,283	6,398	6,511	6,566
Peak Day Therms	49,424	51,422	51,903	52,380	52,852	51,787	53,810	54,272	54,733	55,222
Therms Per Residential Customer	666	668	664	663	663	664	661	660	659	661
Therms Per Commercial Customer	3,178	3,184	3,164	3,158	3,152	3,157	3,138	3,131	3,123	3,129
Therms Per Industrial Customer	18,606	18,955	19,862	20,161	20,442	20,798	20,987	22,108	22,384	22,754
Residential Customers	5,196	5,231	5,266	5,301	5,335	5,370	5,404	5,439	5,474	5,508
Commercial Customers	77	78	79	80	80	83	84	85	87	88
Industrial Customers	27	27	26	26	26	26	25	25	25	25
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>5,990</b>	<b>6,039</b>	<b>6,085</b>	<b>6,133</b>	<b>6,181</b>	<b>6,229</b>	<b>6,276</b>	<b>6,323</b>	<b>6,371</b>	<b>6,419</b>
<b>Athens</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Therms	336,610	341,183	343,196	346,570	350,231	354,622	356,798	360,236	363,362	367,978
Commercial Therms	141,865	143,600	144,173	145,369	146,691	148,360	149,013	150,231	151,316	153,067
Industrial Therms	87,274	93,164	98,311	103,873	109,525	115,425	120,557	126,105	131,558	137,665
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>565,749</b>	<b>577,947</b>	<b>585,680</b>	<b>595,812</b>	<b>606,447</b>	<b>618,406</b>	<b>626,368</b>	<b>636,573</b>	<b>646,236</b>	<b>658,710</b>
Daily BaseLoad Therms	194	208	222	186	228	206	209	223	238	195
Peak Day Therms	4,107	4,698	4,783	4,869	4,954	4,523	5,141	5,226	5,311	5,414
Therms Per Residential Customer	554	555	551	550	549	549	546	545	544	544
Therms Per Commercial Customer	1,889	1,889	1,874	1,874	1,873	1,874	1,861	1,855	1,845	1,852
Therms Per Industrial Customer	21,819	23,291	21,067	20,775	21,905	23,085	20,966	21,018	21,926	22,944
Residential Customers	607	615	622	630	638	646	653	661	669	676
Commercial Customers	75	76	77	78	79	80	81	82	83	83
Industrial Customers	4	4	5	5	5	5	6	6	6	6
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>686</b>	<b>695</b>	<b>704</b>	<b>713</b>	<b>721</b>	<b>730</b>	<b>739</b>	<b>748</b>	<b>757</b>	<b>765</b>
<b>Baker</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Therms	2,464,196	2,493,406	2,497,148	2,513,624	2,530,392	2,559,229	2,562,511	2,578,226	2,593,145	2,621,727
Commercial Therms	1,742,424	1,766,022	1,772,026	1,786,989	1,802,383	1,826,274	1,832,407	1,847,378	1,861,905	1,886,082
Industrial Therms	258,937	272,790	285,138	298,694	312,935	328,415	342,144	357,311	372,796	389,622
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,465,557</b>	<b>4,532,218</b>	<b>4,554,312</b>	<b>4,599,308</b>	<b>4,645,710</b>	<b>4,713,918</b>	<b>4,737,061</b>	<b>4,782,914</b>	<b>4,827,846</b>	<b>4,897,431</b>
Daily BaseLoad Therms	2,466	2,511	2,552	2,593	2,650	2,719	2,719	2,763	2,807	2,874
Peak Day Therms	41,714	43,150	43,514	43,877	44,241	43,508	44,984	45,347	45,710	46,089
Therms Per Residential Customer	670	673	670	669	669	672	669	669	668	671
Therms Per Commercial Customer	3,088	3,106	3,093	3,093	3,098	3,115	3,102	3,105	3,107	3,124
Therms Per Industrial Customer	86,312	90,930	95,046	99,565	104,312	109,472	114,048	119,104	124,265	129,874
Residential Customers	3,676	3,702	3,729	3,755	3,780	3,806	3,831	3,856	3,881	3,905
Commercial Customers	564	569	573	578	582	586	591	595	599	604
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,243</b>	<b>4,274</b>	<b>4,305</b>	<b>4,335</b>	<b>4,365</b>	<b>4,395</b>	<b>4,425</b>	<b>4,454</b>	<b>4,483</b>	<b>4,512</b>



**Appendix B  
Demand Forecast  
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Bend Loop</b>										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.50%	1.42%	1.90%	1.65%	2.36%
Residential Therms	35,633,546	36,865,355	37,543,183	38,433,485	39,308,329	40,388,033	41,053,468	41,934,822	42,791,750	43,991,295
Commercial Therms	14,728,018	15,010,519	15,140,017	15,346,461	15,554,731	15,841,834	15,949,211	16,176,228	16,381,632	16,673,622
Industrial Therms	997,412	1,028,281	1,050,561	1,077,099	1,103,807	1,135,031	1,157,191	1,183,939	1,210,625	1,242,825
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>51,549,176</b>	<b>52,924,154</b>	<b>53,753,761</b>	<b>54,857,044</b>	<b>55,966,867</b>	<b>57,365,698</b>	<b>58,179,869</b>	<b>59,284,989</b>	<b>60,384,007</b>	<b>61,807,442</b>
Daily Baseload Therms	39,310	40,230	41,133	41,958	42,836	43,456	44,277	45,190	46,108	47,016
Peak Day Therms	496,137	512,625	523,312	534,000	544,689	549,240	566,216	576,916	587,619	598,472
Therms Per Residential Customer	766	771	767	767	767	771	768	768	768	772
Therms Per Commercial Customer	2,927	2,942	2,926	2,926	2,925	2,940	2,925	2,924	2,924	2,938
Therms Per Industrial Customer	18,277	18,146	17,882	17,706	17,544	17,440	17,229	17,097	16,952	16,924
Residential Customers	46,744	47,868	48,989	50,110	51,231	52,356	53,478	54,600	55,723	56,849
Commercial Customers	5,032	5,103	5,174	5,246	5,317	5,388	5,460	5,532	5,603	5,675
Industrial Customers	55	57	59	61	63	65	67	69	71	73
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>51,830</b>	<b>53,027</b>	<b>54,222</b>	<b>55,416</b>	<b>56,611</b>	<b>57,809</b>	<b>59,005</b>	<b>60,201</b>	<b>61,398</b>	<b>62,597</b>
<b>Bremerton (Shelton)</b>										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	26,864,196	27,344,297	27,584,139	27,944,505	28,307,359	28,793,765	29,029,728	29,290,157	29,747,973	30,240,616
Commercial Therms	14,488,432	14,753,729	14,896,553	15,100,812	15,306,436	15,575,082	15,715,886	15,920,181	16,123,038	16,394,998
Industrial Therms	500,607	508,663	512,385	518,281	524,219	532,374	536,037	541,934	547,787	556,041
Ind., Inst., & Cncl. Interup. Therms	1,676,333	1,682,778	1,676,204	1,676,204	1,676,333	1,682,778	1,676,333	1,676,333	1,676,204	1,682,649
<b>Total Core Therms</b>	<b>43,529,567</b>	<b>44,289,417</b>	<b>44,669,280</b>	<b>45,239,802</b>	<b>45,814,344</b>	<b>46,583,999</b>	<b>46,957,985</b>	<b>47,538,604</b>	<b>48,095,001</b>	<b>48,874,303</b>
Daily Baseload Therms	37,836	38,344	38,878	39,373	39,911	40,251	40,745	41,282	41,820	42,333
Peak Day Therms	339,415	348,103	352,549	357,035	361,498	362,101	370,637	375,099	379,560	384,241
Therms Per Residential Customer	677	679	676	676	675	678	675	675	674	677
Therms Per Commercial Customer	3,901	3,916	3,899	3,899	3,896	3,911	3,894	3,893	3,891	3,906
Therms Per Industrial Customer	33,374	33,911	34,159	34,552	34,948	35,492	35,736	36,129	36,519	37,069
Residential Customers	39,699	40,252	40,804	41,355	41,907	42,460	43,012	43,564	44,116	44,668
Commercial Customers	3,714	3,767	3,821	3,875	3,929	3,983	4,036	4,090	4,144	4,198
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>43,430</b>	<b>44,036</b>	<b>44,642</b>	<b>45,247</b>	<b>45,853</b>	<b>46,460</b>	<b>47,065</b>	<b>47,671</b>	<b>48,277</b>	<b>48,883</b>
<b>Brouillette Hop</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,930</b>	<b>29,106</b>	<b>28,926</b>	<b>28,929</b>	<b>28,931</b>	<b>29,106</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	223	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,935	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Burbank Heights Loop</b>										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	7,917,128	8,094,875	8,184,196	8,308,433	8,431,645	8,590,829	8,659,397	8,767,440	8,868,093	9,012,092
Commercial Therms	5,849,253	5,976,230	6,040,255	6,130,652	6,220,963	6,338,118	6,390,492	6,472,107	6,549,217	6,658,476
Industrial Therms	291,576	294,817	295,662	297,740	299,902	303,205	304,099	306,217	308,269	311,634
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>14,057,957</b>	<b>14,365,921</b>	<b>14,520,113</b>	<b>14,736,825</b>	<b>14,952,510</b>	<b>15,232,152</b>	<b>15,353,988</b>	<b>15,545,765</b>	<b>15,725,579</b>	<b>15,982,202</b>
Daily Baseload Therms	10,814	11,077	11,220	10,729	11,128	11,722	11,839	11,950	12,055	11,356
Peak Day Therms	86,562	91,567	92,898	94,145	95,360	93,760	98,214	99,292	100,312	101,895
Therms Per Residential Customer	487	486	479	476	472	470	464	460	456	454
Therms Per Commercial Customer	3,946	3,960	3,934	3,928	3,923	3,936	3,910	3,904	3,896	3,909
Therms Per Industrial Customer	22,429	22,678	22,743	22,903	23,069	23,323	23,392	23,555	23,713	23,972
Residential Customers	16,261	16,667	17,072	17,473	17,873	18,273	18,670	19,065	19,459	19,852
Commercial Customers	1,482	1,509	1,535	1,561	1,586	1,610	1,634	1,658	1,681	1,703
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>17,756</b>	<b>18,190</b>	<b>18,620</b>	<b>19,047</b>	<b>19,472</b>	<b>19,896</b>	<b>20,317</b>	<b>20,736</b>	<b>21,153</b>	<b>21,568</b>
<b>Castle Rock</b>										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	39,929	40,565	40,802	41,236	41,668	42,314	42,540	42,976	43,417	44,074
Commercial Therms	139,703	140,196	139,566	139,488	139,395	139,886	139,240	139,161	139,097	139,584
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>179,632</b>	<b>180,761</b>	<b>180,367</b>	<b>180,724</b>	<b>181,063</b>	<b>182,200</b>	<b>181,780</b>	<b>182,137</b>	<b>182,513</b>	<b>183,658</b>
Daily Baseload Therms	244	244	244	244	244	245	245	245	245	246
Peak Day Therms	1,221	1,205	1,208	1,211	1,213	1,235	1,219	1,222	1,225	1,228
Therms Per Residential Customer	408	405	397	392	388	385	380	375	371	369
Therms Per Commercial Customer	2,910	2,921	2,908	2,906	2,904	2,914	2,901	2,899	2,898	2,908
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	98	100	103	105	107	110	112	115	117	119
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>146</b>	<b>148</b>	<b>151</b>	<b>153</b>	<b>155</b>	<b>158</b>	<b>160</b>	<b>163</b>	<b>165</b>	<b>167</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

Chemult	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.05%	0.56%	-0.46%	0.04%	0.03%	0.54%	-0.89%	0.02%	0.02%	0.53%
Residential Therms	13,837	13,930	13,887	13,908	13,928	14,013	13,960	13,974	13,965	14,044
Commercial Therms	41,325	41,540	41,327	41,327	41,325	41,540	41,325	41,325	41,327	41,542
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>55,162</b>	<b>55,470</b>	<b>55,213</b>	<b>55,235</b>	<b>55,253</b>	<b>55,553</b>	<b>55,286</b>	<b>55,299</b>	<b>55,312</b>	<b>55,605</b>
Daily Baseload Therms	44	44	44	44	44	44	44	44	44	44
Peak Day Therms	401	399	400	400	400	401	400	400	400	400
Therms Per Residential Customer	512	516	514	515	516	519	517	518	518	521
Therms Per Commercial Customer	2,066	2,077	2,066	2,066	2,066	2,077	2,066	2,066	2,066	2,077
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	27	27	27	27	27	27	27	27	27	27
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>47</b>
<b>Dehawn Dairy</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%
Residential Therms	3,863	3,875	3,863	3,863	3,863	3,875	3,863	3,863	3,863	3,875
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,863</b>	<b>3,875</b>	<b>3,863</b>	<b>3,863</b>	<b>3,863</b>	<b>3,875</b>	<b>3,863</b>	<b>3,863</b>	<b>3,863</b>	<b>3,875</b>
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	11	11	11	11	11	11	11	11	11	11
Therms Per Residential Customer	1,932	1,937	1,932	1,932	1,932	1,937	1,932	1,932	1,932	1,937
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>Deming</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	0.17%	0.65%	-0.41%	0.15%	0.24%	0.66%	-0.31%	0.17%	0.07%	0.64%
Residential Therms	14,687	14,755	14,674	14,674	14,685	14,756	14,686	14,686	14,674	14,741
Commercial Therms	97,475	98,135	97,750	97,921	98,175	98,848	98,566	98,757	98,853	99,507
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>112,161</b>	<b>112,889</b>	<b>112,424</b>	<b>112,595</b>	<b>112,860</b>	<b>113,603</b>	<b>113,253</b>	<b>113,442</b>	<b>113,527</b>	<b>114,248</b>
Daily Baseload Therms	52	52	52	43	54	53	53	53	53	46
Peak Day Therms	997	1,094	1,095	1,097	1,098	1,004	1,101	1,103	1,104	1,106
Therms Per Residential Customer	612	615	611	611	612	612	612	612	611	614
Therms Per Commercial Customer	7,498	7,549	7,519	7,532	7,552	7,604	7,582	7,597	7,604	7,654
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>
<b>East Stanwood Loop</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.10%	1.51%	0.65%	1.07%	1.07%	1.47%	0.42%	1.02%	1.00%	1.43%
Residential Therms	6,235,242	6,336,152	6,382,325	6,456,019	6,530,323	6,632,499	6,678,022	6,751,720	6,824,770	6,928,198
Commercial Therms	3,989,635	4,051,374	4,079,242	4,124,203	4,169,615	4,232,199	4,259,841	4,304,919	4,349,576	4,413,007
Industrial Therms	472,944	473,230	470,588	469,399	468,246	468,519	465,926	464,737	463,512	463,771
Ind., Inst., & Cmcl. Interup. Therms	83,470	83,752	83,464	83,464	83,470	83,752	83,470	83,470	83,464	83,464
<b>Total Core Therms</b>	<b>10,781,291</b>	<b>10,944,509</b>	<b>11,015,629</b>	<b>11,133,085</b>	<b>11,251,654</b>	<b>11,416,968</b>	<b>11,487,259</b>	<b>11,604,846</b>	<b>11,721,323</b>	<b>11,888,722</b>
Daily Baseload Therms	10,014	10,143	10,280	10,385	10,488	10,520	10,618	10,754	10,894	10,998
Peak Day Therms	80,220	82,200	83,067	83,933	84,799	84,641	86,607	87,473	88,339	89,284
Therms Per Residential Customer	639	642	639	639	639	642	639	639	638	641
Therms Per Commercial Customer	3,482	3,491	3,471	3,465	3,461	3,470	3,451	3,446	3,442	3,451
Therms Per Industrial Customer	157,648	157,743	156,863	156,466	156,082	156,173	155,309	154,912	154,504	154,590
Residential Customers	9,752	9,870	9,987	10,104	10,221	10,338	10,455	10,572	10,689	10,807
Commercial Customers	1,146	1,161	1,175	1,190	1,205	1,220	1,235	1,249	1,264	1,279
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>10,902</b>	<b>11,034</b>	<b>11,166</b>	<b>11,298</b>	<b>11,429</b>	<b>11,561</b>	<b>11,694</b>	<b>11,825</b>	<b>11,957</b>	<b>12,089</b>
<b>Finley</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.18%	1.73%	0.52%	1.11%	1.13%	1.68%	0.48%	1.05%	1.02%	1.64%
Residential Therms	20,226	20,602	20,747	21,011	21,280	21,666	21,812	22,080	22,343	22,739
Commercial Therms	73,903	75,152	75,505	76,312	77,145	78,413	78,748	79,537	80,313	81,606
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>94,129</b>	<b>95,754</b>	<b>96,251</b>	<b>97,322</b>	<b>98,425</b>	<b>100,079</b>	<b>100,560</b>	<b>101,617</b>	<b>102,656</b>	<b>104,345</b>
Daily Baseload Therms	26	25	26	8	16	26	27	27	28	5
Peak Day Therms	710	747	754	760	767	756	787	793	800	814
Therms Per Residential Customer	511	508	501	496	493	491	483	479	475	475
Therms Per Commercial Customer	5,685	5,781	5,808	5,870	5,934	6,032	6,058	6,118	6,178	6,277
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	40	41	41	42	43	44	45	46	47	48
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>53</b>	<b>54</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>

**Appendix B  
Demand Forecast  
Expected Scenario**

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



**Appendix B  
Demand Forecast  
Expected Scenario**

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

Longview South Loop	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.26%	1.61%	0.85%	1.22%	1.23%	1.55%	0.83%	1.16%	1.12%	1.49%
Residential Therms	1,466,632	1,503,093	1,528,316	1,559,276	1,590,681	1,627,560	1,652,752	1,683,697	1,714,144	1,751,419
Commercial Therms	5,098,059	5,173,934	5,212,495	5,270,277	5,329,557	5,406,236	5,445,459	5,503,273	5,559,525	5,636,977
Industrial Therms	161,134	157,907	153,685	150,008	146,378	143,124	139,009	135,352	131,664	128,388
Ind., Inst., & Cmcl. Interup. Therms	88,498	89,087	88,711	88,704	88,731	89,029	88,721	88,755	88,714	89,029
<b>Total Core Therms</b>	6,814,523	6,924,021	6,983,288	7,088,265	7,155,348	7,265,950	7,325,941	7,411,078	7,494,047	7,605,813
Daily BaseLoad Therms	5,825	5,883	5,949	4,096	5,049	4,212	4,267	4,233	4,300	4,476
Peak Day Therms	45,197	48,055	48,855	49,654	70,452	69,338	72,185	72,982	73,779	74,717
Therms Per Residential Customer	541	543	540	539	538	540	537	536	536	537
Therms Per Commercial Customer	4,743	4,750	4,723	4,714	4,706	4,714	4,689	4,681	4,672	4,680
Therms Per Industrial Customer	12,995	12,147	11,822	11,539	11,260	11,010	10,693	10,412	10,128	9,876
Residential Customers	2,709	2,771	2,832	2,894	2,955	3,017	3,078	3,140	3,201	3,262
Commercial Customers	1,075	1,089	1,104	1,118	1,133	1,147	1,161	1,176	1,190	1,205
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	3,798	3,874	3,950	4,026	4,102	4,177	4,253	4,329	4,405	4,481

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

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

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

**Appendix B  
Demand Forecast  
Expected Scenario**

Mission Tap	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.38%	1.18%	0.38%	0.77%	0.76%	1.15%	0.35%	0.74%	0.74%	1.37%
Residential Therms	131,112	132,297	132,332	132,938	133,543	134,139	134,743	135,349	135,974	137,180
Commercial Therms	458,708	464,472	466,680	470,657	474,629	480,455	482,596	486,574	490,556	496,443
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	589,820	596,769	599,012	603,595	608,173	615,194	617,340	621,943	626,531	633,623
Daily BaseLoad Therms	596	601	606	611	615	620	625	629	634	639
Peak Day Therms	6,496	6,540	6,590	6,640	6,690	6,745	6,790	6,840	6,890	6,939
Therms Per Residential Customer	565	567	565	565	565	567	564	563	564	566
Therms Per Commercial Customer	8,821	8,875	8,778	8,716	8,695	8,696	8,618	8,536	8,569	8,547
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	232	233	234	235	236	238	239	240	241	242
Commercial Customers	52	52	53	54	55	55	56	57	57	58
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	284	286	287	289	291	293	295	297	299	300

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

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

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

Nyssa-Ontario	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,380,313	2,418,484	2,430,720	2,456,000	2,481,624	2,520,331	2,532,367	2,557,655	2,582,585	2,621,821
Commercial Therms	2,918,715	2,967,694	2,986,473	3,020,466	3,054,869	3,104,561	3,123,034	3,157,037	3,190,612	3,240,989
Industrial Therms	513,930	519,441	522,869	526,132	530,291	535,840	538,529	542,622	546,613	552,166
Ind., Inst., & Cmcl. Interrup. Therms	913,780	913,270	913,648	913,649	913,780	918,270	913,777	913,778	913,651	918,141
<b>Total Core Therms</b>	6,726,738	6,823,898	6,852,910	6,916,248	6,980,563	7,079,002	7,107,707	7,171,092	7,232,460	7,323,116
Daily BaseLoad Therms	4,157	4,154	4,181	4,225	4,275	4,289	4,311	4,333	4,360	4,399
Peak Day Therms	47,799	49,325	49,778	50,230	50,682	50,311	51,734	52,185	52,635	53,240
Therms Per Residential Customer	551	554	551	550	550	553	550	550	550	552
Therms Per Commercial Customer	2,731	2,746	2,732	2,733	2,733	2,748	2,735	2,735	2,735	2,749
Therms Per Industrial Customer	16,490	16,360	16,064	15,863	15,521	15,457	15,206	15,003	14,740	14,659
Residential Customers	4,319	4,367	4,414	4,462	4,509	4,557	4,605	4,652	4,700	4,747
Commercial Customers	1,069	1,081	1,093	1,105	1,118	1,130	1,142	1,154	1,167	1,179
Industrial Customers	31	32	33	33	34	35	35	36	37	38
Interruption Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	5,420	5,480	5,541	5,601	5,662	5,723	5,783	5,844	5,904	5,965

**Appendix B  
Demand Forecast  
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Othello</b>										
Total Therms Pct. Growth	0.67%	1.04%	0.36%	0.64%	0.69%	1.02%	0.36%	0.69%	0.69%	1.09%
Residential Therms	641,654	645,282	643,688	644,931	646,279	650,531	648,954	650,305	651,673	656,104
Commercial Therms	1,523,939	1,544,066	1,555,776	1,570,557	1,586,616	1,606,968	1,618,898	1,635,044	1,651,569	1,674,186
Industrial Therms	211,335	212,249	211,336	211,336	211,335	212,249	211,336	211,336	211,336	212,249
Ind., Inst., & Cncl. Interup. Therms	86,069	86,383	86,068	86,068	86,069	86,383	86,069	86,069	86,068	86,382
<b>Total Core Therms</b>	<b>2,462,397</b>	<b>2,487,980</b>	<b>2,496,869</b>	<b>2,512,892</b>	<b>2,530,299</b>	<b>2,556,130</b>	<b>2,565,259</b>	<b>2,582,755</b>	<b>2,600,645</b>	<b>2,628,921</b>
Daily Baseload Therms	1,865	1,885	1,901	1,914	1,928	1,947	1,963	1,979	1,994	2,016
Peak Day Therms	13,107	13,192	13,266	13,332	13,404	13,437	13,540	13,612	13,686	13,754
Therms Per Residential Customer	555	556	552	550	549	550	546	545	544	545
Therms Per Commercial Customer	4,332	4,334	4,310	4,299	4,287	4,287	4,268	4,258	4,249	4,258
Therms Per Industrial Customer	23,482	23,583	23,482	23,482	23,482	23,583	23,482	23,482	23,482	23,583
Residential Customers	1,156	1,161	1,167	1,172	1,177	1,183	1,188	1,193	1,199	1,204
Commercial Customers	352	356	361	365	370	375	379	384	389	393
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,518</b>	<b>1,528</b>	<b>1,538</b>	<b>1,547</b>	<b>1,557</b>	<b>1,567</b>	<b>1,577</b>	<b>1,587</b>	<b>1,597</b>	<b>1,607</b>
<b>Patterson</b>										
Total Therms Pct. Growth	0.00%	0.14%	-0.19%	0.00%	0.06%	0.14%	-0.14%	0.00%	-0.05%	0.14%
Residential Therms	126	135	143	151	159	167	175	184	192	199
Commercial Therms	305,623	306,051	305,459	305,458	305,621	306,051	305,623	305,623	305,459	305,885
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>305,750</b>	<b>306,186</b>	<b>305,602</b>	<b>305,609</b>	<b>305,780</b>	<b>306,219</b>	<b>305,708</b>	<b>305,807</b>	<b>305,650</b>	<b>306,084</b>
Daily Baseload Therms	151	151	154	150	147	151	151	152	155	148
Peak Day Therms	199	359	360	362	364	195	361	362	364	360
Therms Per Residential Customer	126	135	143	151	159	167	175	184	192	199
Therms Per Commercial Customer	61,210	61,210	61,092	61,092	61,124	61,210	61,125	61,125	61,092	61,177
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Pendleton</b>										
Total Therms Pct. Growth	0.75%	1.24%	0.24%	0.74%	0.75%	1.22%	0.23%	0.72%	0.70%	1.20%
Residential Therms	3,193,547	3,241,141	3,255,169	3,286,073	3,317,452	3,365,678	3,379,541	3,410,454	3,440,872	3,489,720
Commercial Therms	2,579,924	2,610,925	2,616,660	2,635,140	2,654,002	2,685,354	2,691,114	2,709,599	2,727,692	2,759,390
Industrial Therms	157,900	158,772	157,884	157,892	157,931	158,773	157,892	157,898	157,888	158,784
Ind., Inst., & Cncl. Interup. Therms	671,445	674,022	671,343	671,343	671,445	674,022	671,445	671,445	671,343	673,920
<b>Total Core Therms</b>	<b>6,602,816</b>	<b>6,684,860</b>	<b>6,701,056</b>	<b>6,750,448</b>	<b>6,800,830</b>	<b>6,883,826</b>	<b>6,899,992</b>	<b>6,949,396</b>	<b>6,997,794</b>	<b>7,081,814</b>
Daily Baseload Therms	5,021	5,084	5,129	5,162	5,186	5,230	5,280	5,326	5,376	5,422
Peak Day Therms	67,371	68,910	69,420	69,929	70,438	70,942	71,537	72,046	72,554	73,146
Therms Per Residential Customer	548	550	545	544	543	545	540	539	539	541
Therms Per Commercial Customer	3,027	3,034	3,012	3,004	2,998	3,005	2,984	2,977	2,970	2,978
Therms Per Industrial Customer	26,317	26,442	26,314	26,315	26,322	26,462	26,315	26,316	26,315	26,444
Residential Customers	5,829	5,898	5,968	6,036	6,106	6,175	6,244	6,313	6,382	6,451
Commercial Customers	852	860	869	877	885	894	902	910	918	927
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>6,688</b>	<b>6,766</b>	<b>6,843</b>	<b>6,921</b>	<b>6,998</b>	<b>7,075</b>	<b>7,153</b>	<b>7,230</b>	<b>7,307</b>	<b>7,385</b>
<b>Plymouth</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,930</b>	<b>29,106</b>	<b>28,926</b>	<b>28,929</b>	<b>28,931</b>	<b>29,106</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	223	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Prineville</b>										
Total Therms Pct. Growth	1.73%	2.27%	1.09%	1.64%	1.64%	2.16%	1.01%	1.54%	1.49%	2.06%
Residential Therms	2,179,140	2,243,784	2,282,552	2,334,347	2,386,738	2,452,505	2,490,599	2,542,384	2,593,484	2,660,348
Commercial Therms	2,021,108	2,058,383	2,072,825	2,098,895	2,125,504	2,163,366	2,177,823	2,203,928	2,229,477	2,267,923
Industrial Therms	431,205	434,256	432,478	433,174	433,974	437,050	435,374	436,078	436,685	439,787
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,631,453</b>	<b>4,736,423</b>	<b>4,787,855</b>	<b>4,866,415</b>	<b>4,946,216</b>	<b>5,052,922</b>	<b>5,103,796</b>	<b>5,182,390</b>	<b>5,259,646</b>	<b>5,368,058</b>
Daily Baseload Therms	3,040	3,063	3,075	3,122	3,208	3,306	3,354	3,363	3,371	3,471
Peak Day Therms	43,650	45,597	46,360	47,122	47,884	47,385	49,420	50,183	50,944	51,718
Therms Per Residential Customer	601	604	600	600	600	603	599	599	599	602
Therms Per Commercial Customer	3,266	3,280	3,258	3,255	3,252	3,268	3,247	3,244	3,241	3,255
Therms Per Industrial Customer	13,475	13,396	13,105	13,126	13,151	13,244	13,193	13,214	13,233	13,327
Residential Customers	3,628	3,716	3,804	3,891	3,979	4,067	4,155	4,243	4,330	4,418
Commercial Customers	619	628	636	645	654	662	671	679	688	697
Industrial Customers	32	32	33	33	33	33	33	33	33	33
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,279</b>	<b>4,376</b>	<b>4,473</b>	<b>4,569</b>	<b>4,666</b>	<b>4,762</b>	<b>4,859</b>	<b>4,955</b>	<b>5,051</b>	<b>5,148</b>





**Appendix B  
Demand Forecast  
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Sedro-Woolley Loop</b>										
Total Therms Pct. Growth	0.78%	1.21%	0.34%	0.78%	0.79%	1.21%	0.35%	0.78%	0.77%	1.21%
Residential Therms	18,951,127	19,229,887	19,296,748	19,450,494	19,407,668	19,849,563	19,920,541	20,076,905	20,236,144	20,485,384
Commercial Therms	10,786,503	10,921,923	10,966,302	11,057,887	11,151,497	11,291,061	11,337,982	11,432,320	11,526,003	11,649,831
Industrial Therms	1,125,545	1,129,381	1,125,408	1,125,407	1,125,545	1,129,381	1,125,547	1,125,546	1,125,406	1,129,422
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,907,174</b>	<b>31,281,191</b>	<b>31,388,458</b>	<b>31,633,788</b>	<b>31,884,709</b>	<b>32,270,004</b>	<b>32,384,070</b>	<b>32,636,770</b>	<b>32,887,553</b>	<b>33,284,458</b>
Daily BaseLoad Therms	28,966	29,441	29,577	28,268	28,821	30,343	30,483	30,625	30,767	29,388
Peak Day Therms	177,575	182,952	184,260	185,576	186,900	185,007	190,086	191,441	192,804	194,700
Therms Per Residential Customer	623	623	618	616	613	614	609	607	605	605
Therms Per Commercial Customer	2,964	2,977	2,965	2,966	2,966	2,980	2,969	2,970	2,971	2,985
Therms Per Industrial Customer	11,008	10,974	10,735	10,634	10,536	10,385	10,263	10,125	10,041	9,993
Residential Customers	30,478	30,851	31,224	31,596	31,968	32,342	32,714	33,087	33,459	33,832
Commercial Customers	3,639	3,669	3,699	3,729	3,759	3,789	3,819	3,849	3,879	3,909
Industrial Customers	102	103	105	106	107	109	110	111	112	113
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>34,219</b>	<b>34,623</b>	<b>35,027</b>	<b>35,431</b>	<b>35,835</b>	<b>36,240</b>	<b>36,643</b>	<b>37,047</b>	<b>37,450</b>	<b>37,855</b>
<b>South Hermiston</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,339	10,389	10,339	10,339	10,339	10,389	10,339	10,339	10,339	10,389
Commercial Therms	9,677	9,745	9,675	9,677	9,678	9,745	9,675	9,676	9,678	9,745
Industrial Therms	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>28,929</b>	<b>29,106</b>	<b>28,926</b>	<b>28,929</b>	<b>28,931</b>	<b>29,106</b>	<b>28,926</b>	<b>28,928</b>	<b>28,931</b>	<b>29,107</b>
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	222	222	222	222	222	222	222	222	222	222
Therms Per Residential Customer	1,292	1,299	1,292	1,292	1,292	1,299	1,292	1,292	1,292	1,299
Therms Per Commercial Customer	1,935	1,949	1,935	1,935	1,936	1,949	1,935	1,935	1,936	1,949
Therms Per Industrial Customer	8,915	8,973	8,912	8,913	8,915	8,973	8,912	8,913	8,915	8,973
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Stanfield</b>										
Total Therms Pct. Growth	1.67%	2.16%	1.10%	1.59%	1.58%	2.06%	1.02%	1.50%	1.46%	1.97%
Residential Therms	294,311	301,570	305,736	311,460	317,233	324,609	328,706	334,431	340,103	347,594
Commercial Therms	91,526	93,008	93,175	93,806	94,451	95,544	95,713	96,344	96,961	98,067
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>386,237</b>	<b>394,578</b>	<b>398,911</b>	<b>405,266</b>	<b>411,683</b>	<b>420,153</b>	<b>424,419</b>	<b>430,776</b>	<b>437,065</b>	<b>445,661</b>
Daily BaseLoad Therms	161	158	159	162	168	169	172	173	175	175
Peak Day Therms	3,296	3,406	3,463	3,520	3,578	3,564	3,685	3,742	3,800	3,850
Therms Per Residential Customer	651	653	648	647	646	647	643	642	641	643
Therms Per Commercial Customer	1,973	1,951	1,905	1,876	1,849	1,834	1,803	1,781	1,758	1,741
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	452	462	472	482	491	501	511	521	531	541
Commercial Customers	47	48	49	50	51	52	53	54	55	56
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>499</b>	<b>510</b>	<b>521</b>	<b>532</b>	<b>543</b>	<b>553</b>	<b>564</b>	<b>575</b>	<b>586</b>	<b>597</b>
<b>Stearns (Sunriver)</b>										
Total Therms Pct. Growth	0.91%	1.41%	0.40%	0.89%	0.88%	1.38%	0.37%	0.86%	0.85%	1.35%
Residential Therms	4,364,721	4,436,279	4,461,972	4,510,478	4,558,930	4,631,521	4,656,168	4,704,705	4,752,316	4,826,962
Commercial Therms	1,140,948	1,167,851	1,165,023	1,167,037	1,169,011	1,175,948	1,173,047	1,175,061	1,177,115	1,184,084
Industrial Therms	42,840	42,793	42,412	42,196	41,980	41,930	41,551	41,336	41,122	41,068
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>5,568,509</b>	<b>5,646,922</b>	<b>5,669,406</b>	<b>5,719,712</b>	<b>5,769,922</b>	<b>5,849,399</b>	<b>5,870,766</b>	<b>5,921,101</b>	<b>5,971,553</b>	<b>6,052,116</b>
Daily BaseLoad Therms	6,011	6,078	6,120	6,159	6,195	6,255	6,294	6,336	6,378	6,439
Peak Day Therms	46,125	46,495	46,921	47,347	47,772	48,347	48,669	49,094	49,520	49,992
Therms Per Residential Customer	1,025	1,030	1,025	1,025	1,025	1,030	1,025	1,025	1,025	1,031
Therms Per Commercial Customer	5,206	5,216	5,201	5,204	5,196	5,226	5,200	5,199	5,208	5,216
Therms Per Industrial Customer	14,280	14,264	14,137	14,065	13,993	13,977	13,850	13,779	13,707	13,689
Residential Customers	4,260	4,307	4,354	4,401	4,448	4,495	4,542	4,589	4,637	4,684
Commercial Customers	223	224	224	224	225	225	226	226	226	227
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,486</b>	<b>4,534</b>	<b>4,581</b>	<b>4,629</b>	<b>4,676</b>	<b>4,723</b>	<b>4,771</b>	<b>4,818</b>	<b>4,866</b>	<b>4,914</b>
<b>Sumas SPE Loop</b>										
Total Therms Pct. Growth	1.02%	1.43%	0.59%	1.03%	1.06%	1.43%	0.63%	1.03%	1.00%	1.43%
Residential Therms	34,921,083	35,370,536	35,520,726	35,831,090	36,156,131	36,624,157	36,793,712	37,118,112	37,434,352	37,921,942
Commercial Therms	18,855,199	19,138,630	19,271,038	19,485,498	19,708,722	20,004,860	20,149,396	20,373,559	20,595,452	20,902,971
Industrial Therms	2,569,982	2,641,232	2,696,410	2,761,145	2,827,571	2,902,406	2,960,540	3,028,204	3,095,527	3,174,138
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>56,346,263</b>	<b>57,150,398</b>	<b>57,488,174</b>	<b>58,077,733</b>	<b>58,692,425</b>	<b>59,531,424</b>	<b>59,903,647</b>	<b>60,519,876</b>	<b>61,123,330</b>	<b>61,999,051</b>
Daily BaseLoad Therms	32,147	32,520	32,852	32,852	32,852	33,917	34,269	34,622	34,990	35,320
Peak Day Therms	509,311	531,509	537,149	542,848	548,612	534,713	559,213	565,165	571,179	576,112
Therms Per Residential Customer	669	670	664	662	661	662	657	656	654	655
Therms Per Commercial Customer	2,876	2,872	2,845	2,831	2,818	2,816	2,793	2,781	2,770	2,770
Therms Per Industrial Customer	22,743	22,720	22,564	22,479	22,427	22,427	22,302	22,266	22,230	22,262
Residential Customers	52,201	52,830	53,460	54,089	54,720	55,352	55,984	56,616	57,249	57,883
Commercial Customers	6,555	6,664	6,774	6,884	6,994	7,104	7,214	7,325	7,436	7,547
Industrial Customers	113	116	120	123	126	129	133	136	139	143
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>58,869</b>	<b>59,611</b>	<b>60,353</b>	<b>61,096</b>	<b>61,839</b>	<b>62,585</b>	<b>63,331</b>	<b>64,077</b>	<b>64,824</b>	<b>65,571</b>

Appendix B  
Demand Forecast  
Expected Scenario

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Sunnyside</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.78%	1.27%
Residential Therms	1,238,245	1,258,405	1,245,188	1,278,070	1,290,673	1,309,155	1,313,983	1,314,982	1,335,392	1,352,444
Commercial Therms	2,017,071	2,049,438	2,042,432	2,084,187	2,105,470	2,135,123	2,144,846	2,143,438	2,181,014	2,208,208
Industrial Therms	733,602	742,339	746,244	752,581	758,824	767,284	770,310	775,720	780,796	788,516
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,988,478</b>	<b>4,050,182</b>	<b>4,073,864</b>	<b>4,114,838</b>	<b>4,154,967</b>	<b>4,211,561</b>	<b>4,229,159</b>	<b>4,264,139</b>	<b>4,297,201</b>	<b>4,349,167</b>
Daily Baseload Therms	3,000	3,031	3,043	3,072	3,121	3,164	3,189	3,206	3,210	3,262
Peak Day Therms	26,403	27,392	27,671	27,939	28,197	27,803	28,729	28,956	29,174	29,435
Therms Per Residential Customer	543	545	541	539	538	538	534	532	529	530
Therms Per Commercial Customer	3,236	3,241	3,219	3,211	3,200	3,201	3,175	3,164	3,150	3,147
Therms Per Industrial Customer	38,247	37,117	37,312	37,629	37,941	36,537	36,681	36,939	37,181	37,107
Residential Customers	2,280	2,310	2,340	2,371	2,401	2,432	2,462	2,493	2,523	2,553
Commercial Customers	623	632	641	649	658	667	676	684	692	702
Industrial Customers	19	20	20	20	20	21	21	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,922</b>	<b>2,962</b>	<b>3,001</b>	<b>3,040</b>	<b>3,079</b>	<b>3,120</b>	<b>3,158</b>	<b>3,197</b>	<b>3,236</b>	<b>3,276</b>
<b>Umatilla</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	568,132	584,732	595,394	608,978	622,542	639,412	649,778	663,361	676,965	694,113
Commercial Therms	579,104	591,210	597,687	606,946	616,186	628,469	634,750	644,009	653,287	665,748
Industrial Therms	998,096	1,002,724	1,000,746	1,002,061	1,003,364	1,008,013	1,005,996	1,007,313	1,008,645	1,013,218
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,145,340</b>	<b>2,178,665</b>	<b>2,193,627</b>	<b>2,217,985</b>	<b>2,242,092</b>	<b>2,275,894</b>	<b>2,290,524</b>	<b>2,314,683</b>	<b>2,338,898</b>	<b>2,373,179</b>
Daily Baseload Therms	2,507	2,520	2,541	2,561	2,579	2,588	2,608	2,630	2,651	2,660
Peak Day Therms	12,813	12,951	13,122	13,293	13,444	13,715	13,828	13,999	14,169	14,344
Therms Per Residential Customer	445	446	443	442	441	442	439	438	437	438
Therms Per Commercial Customer	3,365	3,380	3,363	3,366	3,361	3,376	3,357	3,359	3,360	3,374
Therms Per Industrial Customer	142,585	143,246	142,964	143,152	143,338	144,002	143,714	143,902	144,092	144,760
Residential Customers	1,277	1,311	1,345	1,379	1,413	1,447	1,481	1,515	1,549	1,584
Commercial Customers	172	175	178	180	183	186	189	192	194	197
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,456</b>	<b>1,493</b>	<b>1,530</b>	<b>1,566</b>	<b>1,603</b>	<b>1,640</b>	<b>1,677</b>	<b>1,714</b>	<b>1,751</b>	<b>1,788</b>
<b>Walla Walla</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,907,579	8,021,590	8,057,512	8,127,026	8,196,100	8,298,706	8,322,614	8,382,335	8,437,428	8,530,673
Commercial Therms	6,919,673	6,994,024	7,005,244	7,044,358	7,083,389	7,149,551	7,152,904	7,185,099	7,213,804	7,273,195
Industrial Therms	265,924	272,547	276,817	281,988	287,139	293,236	296,890	301,605	306,102	311,776
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>15,093,176</b>	<b>15,288,161</b>	<b>15,339,573</b>	<b>15,453,372</b>	<b>15,566,629</b>	<b>15,741,493</b>	<b>15,772,408</b>	<b>15,869,039</b>	<b>15,957,334</b>	<b>16,115,644</b>
Daily Baseload Therms	12,335	12,368	12,390	12,416	12,616	12,760	12,849	12,850	12,846	12,965
Peak Day Therms	171,404	175,423	176,895	178,267	179,602	178,200	182,047	183,214	184,313	185,319
Therms Per Residential Customer	576	577	572	569	567	566	561	558	555	555
Therms Per Commercial Customer	4,549	4,542	4,495	4,468	4,442	4,432	4,386	4,358	4,329	4,320
Therms Per Industrial Customer	10,817	10,866	10,647	10,777	10,635	10,728	10,603	10,400	10,495	10,393
Residential Customers	13,721	13,909	14,096	14,281	14,467	14,651	14,835	15,018	15,200	15,383
Commercial Customers	1,521	1,540	1,558	1,577	1,595	1,613	1,631	1,649	1,666	1,684
Industrial Customers	25	25	26	26	27	27	28	29	29	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>15,267</b>	<b>15,474</b>	<b>15,680</b>	<b>15,884</b>	<b>16,088</b>	<b>16,291</b>	<b>16,493</b>	<b>16,695</b>	<b>16,895</b>	<b>17,095</b>
<b>Wenatchee</b>										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	648,197	656,582	657,987	662,974	668,181	676,670	678,187	683,177	687,943	696,521
Commercial Therms	3,917,352	3,963,388	3,970,563	3,998,553	4,028,330	4,076,962	4,086,402	4,116,164	4,144,617	4,194,752
Industrial Therms	474,613	488,009	497,138	508,443	519,899	533,486	542,567	553,879	565,027	578,800
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>5,040,162</b>	<b>5,107,974</b>	<b>5,125,688</b>	<b>5,169,971</b>	<b>5,216,409</b>	<b>5,287,118</b>	<b>5,307,356</b>	<b>5,353,220</b>	<b>5,397,586</b>	<b>5,470,083</b>
Daily Baseload Therms	4,602	4,572	4,563	4,608	4,709	4,787	4,834	4,826	4,817	4,898
Peak Day Therms	33,364	35,393	35,668	35,946	36,227	34,830	36,873	37,161	37,451	37,820
Therms Per Residential Customer	417	417	414	412	411	411	408	407	405	406
Therms Per Commercial Customer	5,189	5,206	5,174	5,169	5,165	5,185	5,158	5,154	5,149	5,171
Therms Per Industrial Customer	26,367	26,027	26,165	26,186	25,995	26,674	26,360	26,375	26,906	26,510
Residential Customers	1,555	1,573	1,591	1,609	1,627	1,645	1,663	1,680	1,698	1,716
Commercial Customers	755	761	767	774	780	786	792	799	805	811
Industrial Customers	18	19	19	19	20	20	21	21	21	22
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,328</b>	<b>2,353</b>	<b>2,377</b>	<b>2,402</b>	<b>2,427</b>	<b>2,451</b>	<b>2,475</b>	<b>2,500</b>	<b>2,524</b>	<b>2,549</b>
<b>Woodland</b>										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	641,128	663,293	678,853	697,903	717,467	740,005	755,706	774,805	793,352	816,241
Commercial Therms	966,392	988,782	1,000,612	1,018,140	1,036,686	1,059,448	1,071,923	1,089,511	1,106,027	1,129,129
Industrial Therms	982,602	1,015,747	1,040,388	1,069,580	1,099,617	1,133,208	1,158,203	1,187,440	1,215,742	1,249,735
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,590,122</b>	<b>2,667,822</b>	<b>2,719,852</b>	<b>2,785,624</b>	<b>2,853,770</b>	<b>2,932,660</b>	<b>2,985,832</b>	<b>3,051,755</b>	<b>3,115,121</b>	<b>3,195,105</b>
Daily Baseload Therms	3,295	3,144	3,203	3,284	3,402	3,731	3,527	3,622	3,681	3,811
Peak Day Therms	15,945	18,543	18,999	19,456	19,912	17,961	20,824	21,281	21,738	22,192
Therms Per Residential Customer	604	608	605	606	608	611	609	610	610	614
Therms Per Commercial Customer	3,322	3,324	3,294	3,284	3,275	3,282	3,257	3,246	3,236	3,242
Therms Per Industrial Customer	40,800	40,630	40,273	41,006	40,727	40,593	41,120	40,946	40,638	41,428
Residential Customers	1,062	1,091	1,121	1,151	1,181	1,210	1,240	1,270	1,300	1,330
Commercial Customers	291	304	304	310	317	323	329	336	342	348
Industrial Customers	24	25	26	26	27	28	28	29	30	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,377</b>	<b>1,414</b>	<b>1,451</b>	<b>1,487</b>	<b>1,524</b>	<b>1,561</b>	<b>1,598</b>	<b>1,635</b>	<b>1,672</b>	<b>1,708</b>

Appendix B  
Demand Forecast  
Expected Scenario

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

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

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

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

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

**Appendix B**  
**Demand Forecast**  
**Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Zone 11</b>										
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.48%	0.94%	0.87%	1.36%
Residential Therms	16,327,755	16,596,257	16,662,324	16,853,416	17,022,907	17,271,275	17,333,850	17,480,487	17,617,851	17,847,862
Commercial Therms	21,286,298	21,645,792	21,782,980	22,023,571	22,264,213	22,600,444	22,708,748	22,922,072	23,121,384	23,436,685
Industrial Therms	5,322,570	5,430,733	5,490,778	5,572,308	5,652,603	5,751,242	5,801,087	5,871,109	5,937,143	6,027,532
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>42,936,623</b>	<b>43,672,782</b>	<b>43,956,081</b>	<b>44,449,295</b>	<b>44,939,724</b>	<b>45,622,961</b>	<b>45,843,704</b>	<b>46,273,867</b>	<b>46,676,379</b>	<b>47,312,778</b>
Daily BaseLoad Therms	30,603	30,441	30,478	30,917	31,826	32,432	32,579	32,589	32,538	33,359
Peak Day Therms	344,561	361,729	365,876	369,886	373,755	364,616	381,466	384,928	388,270	391,928
Therms Per Residential Customer	640	643	638	637	635	637	632	630	627	628
Therms Per Commercial Customer	4,109	4,125	4,099	4,092	4,086	4,097	4,067	4,057	4,044	4,051
Therms Per Industrial Customer	34,675	34,572	34,246	34,064	33,780	33,831	33,484	33,280	33,138	32,967
Residential Customers	25,500	25,825	26,150	26,474	26,798	27,122	27,445	27,768	28,090	28,414
Commercial Customers	5,181	5,248	5,315	5,382	5,449	5,516	5,583	5,651	5,717	5,785
Industrial Customers	154	157	160	164	167	170	173	176	179	183
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>30,835</b>	<b>31,230</b>	<b>31,625</b>	<b>32,019</b>	<b>32,414</b>	<b>32,808</b>	<b>33,202</b>	<b>33,595</b>	<b>33,987</b>	<b>34,382</b>
<b>Zone 20</b>										
Total Therms Pct. Growth	1.59%	2.02%	0.99%	1.44%	1.43%	1.88%	0.85%	1.32%	1.27%	1.76%
Residential Therms	21,329,879	21,809,054	22,054,700	22,408,691	22,763,851	23,229,823	23,451,673	23,790,876	24,121,348	24,579,797
Commercial Therms	23,029,951	23,459,344	23,672,055	23,998,969	24,303,150	24,733,093	24,927,328	25,236,087	25,536,949	25,963,205
Industrial Therms	1,073,898	1,088,148	1,092,863	1,102,725	1,112,546	1,127,088	1,132,216	1,141,728	1,151,551	1,166,222
Ind., Inst., & Cmcl. Interrup. Therms	290,381	291,594	290,346	290,346	290,381	291,594	290,381	290,346	291,594	291,559
<b>Total Core Therms</b>	<b>45,724,109</b>	<b>46,448,140</b>	<b>47,109,965</b>	<b>47,788,731</b>	<b>48,469,928</b>	<b>49,381,598</b>	<b>49,801,598</b>	<b>50,459,072</b>	<b>51,100,194</b>	<b>52,000,783</b>
Daily BaseLoad Therms	39,373	40,001	40,451	40,342	41,282	42,220	42,727	43,213	43,646	43,436
Peak Day Therms	357,721	371,496	376,725	381,842	386,929	384,582	397,846	402,818	407,739	413,574
Therms Per Residential Customer	511	511	505	501	498	497	492	489	486	485
Therms Per Commercial Customer	4,181	4,185	4,152	4,138	4,125	4,132	4,100	4,088	4,076	4,084
Therms Per Industrial Customer	24,974	25,306	25,415	25,062	25,285	25,616	25,732	25,948	26,172	25,916
Residential Customers	41,711	42,715	43,715	44,711	45,707	46,703	47,696	48,687	49,677	50,670
Commercial Customers	5,509	5,606	5,702	5,797	5,891	5,986	6,080	6,173	6,266	6,358
Industrial Customers	43	43	43	44	44	44	44	44	44	45
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>47,265</b>	<b>48,365</b>	<b>49,461</b>	<b>50,554</b>	<b>51,645</b>	<b>52,735</b>	<b>53,822</b>	<b>54,906</b>	<b>55,989</b>	<b>57,072</b>
<b>Zone 24</b>										
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	4,923,550	4,992,796	5,009,687	5,052,849	5,096,686	5,166,195	5,182,465	5,224,936	5,266,254	5,336,102
Commercial Therms	4,701,008	4,774,981	4,800,650	4,850,771	4,901,766	4,976,846	5,002,375	5,052,590	5,101,945	5,178,084
Industrial Therms	772,867	792,231	807,207	824,827	843,225	864,255	880,673	899,933	919,409	941,787
Ind., Inst., & Cmcl. Interrup. Therms	913,780	918,270	913,648	913,649	913,780	918,270	913,777	913,778	913,651	918,141
<b>Total Core Therms</b>	<b>11,311,205</b>	<b>11,478,277</b>	<b>11,531,192</b>	<b>11,642,096</b>	<b>11,755,458</b>	<b>11,925,566</b>	<b>11,979,290</b>	<b>12,091,238</b>	<b>12,201,260</b>	<b>12,374,114</b>
Daily BaseLoad Therms	6,634	6,677	6,746	6,830	6,939	6,977	7,042	7,109	7,182	7,287
Peak Day Therms	90,818	93,832	94,676	95,520	96,363	96,264	98,218	99,061	99,903	100,919
Therms Per Residential Customer	604	607	603	603	603	606	602	602	601	604
Therms Per Commercial Customer	2,837	2,851	2,837	2,837	2,838	2,852	2,838	2,838	2,838	2,852
Therms Per Industrial Customer	22,620	22,798	22,738	22,806	22,888	22,945	22,924	22,977	22,937	23,159
Residential Customers	8,151	8,227	8,304	8,380	8,455	8,531	8,606	8,681	8,756	8,830
Commercial Customers	1,657	1,675	1,692	1,710	1,727	1,745	1,763	1,780	1,798	1,816
Industrial Customers	34	35	36	36	37	38	38	39	40	41
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>9,843</b>	<b>9,938</b>	<b>10,032</b>	<b>10,127</b>	<b>10,221</b>	<b>10,314</b>	<b>10,408</b>	<b>10,501</b>	<b>10,594</b>	<b>10,687</b>
<b>Zone 26</b>										
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,147,855	2,207,127	2,248,155	2,298,609	2,350,018	2,410,091	2,451,218	2,501,708	2,551,150	2,611,981
Commercial Therms	6,599,809	6,608,996	6,658,165	6,733,398	6,811,295	6,911,656	6,962,281	7,037,605	7,110,145	7,211,613
Industrial Therms	1,143,742	1,173,659	1,194,079	1,219,593	1,246,000	1,276,337	1,297,218	1,322,797	1,347,412	1,378,128
Ind., Inst., & Cmcl. Interrup. Therms	88,698	89,087	88,711	88,704	88,731	89,029	88,721	88,755	88,714	89,129
<b>Total Core Therms</b>	<b>9,890,104</b>	<b>10,078,869</b>	<b>10,189,109</b>	<b>10,340,303</b>	<b>10,496,044</b>	<b>10,687,114</b>	<b>10,799,437</b>	<b>10,950,865</b>	<b>11,097,421</b>	<b>11,290,751</b>
Daily BaseLoad Therms	9,515	9,421	9,550	7,294	8,842	10,340	10,190	10,251	10,380	8,251
Peak Day Therms	82,562	88,163	89,423	90,683	91,942	88,730	94,589	95,848	97,105	98,497
Therms Per Residential Customer	520	522	519	519	519	521	518	518	518	520
Therms Per Commercial Customer	4,410	4,411	4,380	4,366	4,353	4,357	4,330	4,316	4,304	4,307
Therms Per Industrial Customer	29,264	29,341	29,243	29,686	29,667	29,740	30,051	30,064	29,998	30,512
Residential Customers	4,131	4,230	4,330	4,429	4,529	4,629	4,728	4,828	4,927	5,027
Commercial Customers	1,476	1,498	1,520	1,542	1,565	1,586	1,608	1,630	1,652	1,674
Industrial Customers	39	40	41	41	42	43	43	44	45	45
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,647</b>	<b>5,770</b>	<b>5,892</b>	<b>6,014</b>	<b>6,137</b>	<b>6,259</b>	<b>6,380</b>	<b>6,503</b>	<b>6,625</b>	<b>6,747</b>
<b>Zone 30-S</b>										
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	29,811,257	30,339,219	30,600,027	30,995,222	31,393,920	31,928,805	32,186,152	32,581,444	32,973,061	33,514,791
Commercial Therms	17,904,741	18,200,485	18,345,754	18,567,061	18,790,938	19,090,452	19,234,575	19,455,936	19,674,634	19,977,710
Industrial Therms	895,410	701,978	702,749	706,469	710,292	716,931	721,467	725,086	728,601	731,800
Ind., Inst., & Cmcl. Interrup. Therms	1,676,333	1,682,778	1,676,204	1,676,204	1,676,333	1,682,778	1,676,333	1,676,333	1,676,204	1,682,649
<b>Total Core Therms</b>	<b>50,087,740</b>	<b>50,924,460</b>	<b>51,324,734</b>	<b>51,944,955</b>	<b>52,571,482</b>	<b>53,418,966</b>	<b>53,814,805</b>	<b>54,435,100</b>	<b>55,048,984</b>	<b>55,906,950</b>
Daily BaseLoad Therms	43,892	44,469	45,029	44,452	45,757	46,533	47,054	47,616	48,180	47,733
Peak Day Therms	378,846	389,909	394,687	399,644	404,238	403,052	414,122	418,896	423,666	428,785
Therms Per Residential Customer	677	681	677	677	676	679	676	675	675	678
Therms Per Commercial Customer	3,998	4,012	3,992	3,990	3,988	4,002	3,984	3,981	3,978	3,993
Therms Per Industrial Customer	24,836	25,071	25,098	25,231	25,368	25,605	25,634	25,767	25,896	26,136
Residential Customers	43,962	44,574	45,186	45,796	46,407	47,019	47,631	48,241	48,852	49,464
Commercial Customers	4,479	4,537	4,595	4,654	4,712	4,770	4,828	4,887	4,945	5,004
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>48,471</b>	<b>49,141</b>	<b>49,811</b>	<b>50,480</b>	<b>51,149</b>	<b>51,820</b>	<b>52,489</b>	<b>53,158</b>	<b>53,827</b>	<b>54,498</b>

Appendix B  
Demand Forecast  
Expected Scenario

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Zone 30-W</b>										
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	43,738,135	64,558,389	64,825,043	65,382,262	65,959,844	66,805,721	67,095,095	67,670,474	68,235,026	69,110,144
Commercial Therms	36,218,617	36,747,110	36,977,108	37,364,528	37,763,537	38,308,909	38,552,262	38,951,235	39,244,038	39,907,952
Industrial Therms	4,671,334	4,756,123	4,809,845	4,880,636	4,953,352	5,041,545	5,098,180	5,171,694	5,244,544	5,336,511
Ind., Inst., & Cncl. Interup. Therms	83,470	83,752	83,644	83,464	83,470	83,752	83,470	83,470	83,644	83,746
<b>Total Core Therms</b>	104,711,556	106,145,373	106,695,460	107,710,890	108,759,223	110,239,928	110,829,007	111,876,873	112,907,082	114,438,354
Daily BaseLoad Therms	77,233	78,294	79,011	60,483	67,603	81,173	81,829	82,576	83,339	63,643
Peak Day Therms	819,020	850,685	858,987	867,351	875,783	858,673	892,352	900,994	909,704	917,973
Therms Per Residential Customer	652	652	648	646	644	645	641	639	637	639
Therms Per Commercial Customer	2,981	2,984	2,962	2,954	2,946	2,950	2,931	2,924	2,916	2,921
Therms Per Industrial Customer	18,970	19,012	18,912	18,868	18,846	18,800	18,715	18,727	18,708	18,752
Residential Customers	97,791	98,946	100,101	101,255	102,409	103,566	104,722	105,880	107,036	108,197
Commercial Customers	12,148	12,315	12,483	12,650	12,818	12,987	13,155	13,323	13,492	13,661
Industrial Customers	246	250	254	259	263	268	272	276	280	285
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	110,186	111,512	112,839	114,165	115,491	116,822	118,150	119,480	120,810	122,143
<b>Zone GTN</b>										
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	50,851,798	52,325,288	53,245,633	54,443,683	55,649,579	57,148,559	58,051,362	59,250,280	60,441,078	61,965,941
Commercial Therms	25,389,784	25,859,989	26,061,406	26,398,531	26,740,399	27,217,884	27,416,897	27,754,292	28,087,015	28,572,200
Industrial Therms	3,522,004	4,038,756	4,107,497	4,195,577	4,284,764	4,392,952	4,461,188	4,549,256	4,636,156	4,745,851
Ind., Inst., & Cncl. Interup. Therms	292,876	294,556	292,939	292,939	293,016	294,556	293,016	292,939	294,479	294,479
<b>Total Core Therms</b>	80,466,662	82,518,589	83,707,475	85,330,730	86,967,758	89,053,951	90,222,463	91,846,845	93,457,188	95,578,470
Daily BaseLoad Therms	61,734	63,198	64,524	65,744	67,125	67,956	69,165	70,569	71,919	73,404
Peak Day Therms	758,677	787,049	802,710	818,367	834,023	836,071	865,551	881,214	896,878	912,766
Therms Per Residential Customer	767	771	767	766	767	770	766	766	766	770
Therms Per Commercial Customer	3,107	3,121	3,102	3,100	3,099	3,113	3,095	3,094	3,092	3,106
Therms Per Industrial Customer	27,321	27,381	27,157	27,170	27,133	27,215	27,106	27,119	27,099	27,210
Residential Customers	66,314	67,889	69,460	71,031	72,602	74,177	75,750	77,322	78,895	80,470
Commercial Customers	8,172	8,286	8,401	8,515	8,630	8,743	8,857	8,971	9,085	9,200
Industrial Customers	144	148	151	154	158	161	165	168	171	174
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	74,631	76,323	78,013	79,701	81,390	83,082	84,773	86,462	88,152	89,847
<b>Zone ME-OR</b>										
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	7,082,164	7,211,606	7,265,893	7,358,219	7,452,257	7,583,373	7,637,357	7,729,781	7,820,398	7,953,561
Commercial Therms	7,556,781	7,671,341	7,713,073	7,791,794	7,872,239	7,988,099	8,029,999	8,108,772	8,185,756	8,303,232
Industrial Therms	1,439,025	1,450,734	1,451,315	1,457,534	1,463,099	1,475,605	1,476,201	1,482,405	1,488,466	1,500,432
Ind., Inst., & Cncl. Interup. Therms	1,380,054	1,385,664	1,379,719	1,379,720	1,380,054	1,385,664	1,380,053	1,379,720	1,379,720	1,385,331
<b>Total Core Therms</b>	17,458,024	17,719,346	17,810,000	17,987,267	18,168,459	18,432,741	18,523,609	18,701,012	18,878,341	19,142,555
Daily BaseLoad Therms	15,612	15,782	15,930	16,021	16,243	16,300	16,450	16,611	16,767	16,878
Peak Day Therms	147,844	153,371	154,870	156,367	157,861	155,683	161,142	162,635	164,127	165,922
Therms Per Residential Customer	528	529	525	524	524	524	525	521	520	522
Therms Per Commercial Customer	3,524	3,537	3,516	3,512	3,510	3,523	3,502	3,499	3,495	3,508
Therms Per Industrial Customer	49,197	49,598	48,512	48,183	48,394	48,780	47,619	47,437	47,631	48,014
Residential Customers	13,423	13,625	13,828	14,030	14,232	14,435	14,638	14,840	15,041	15,244
Commercial Customers	2,144	2,169	2,194	2,218	2,243	2,268	2,293	2,318	2,342	2,367
Industrial Customers	29	29	30	30	30	30	31	31	31	31
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	15,599	15,825	16,053	16,280	16,507	16,735	16,963	17,191	17,417	17,644
<b>Zone ME-WA</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,907,579	8,021,590	8,057,512	8,127,028	8,196,100	8,298,706	8,222,614	8,323,235	8,427,428	8,530,673
Commercial Therms	6,919,673	6,994,024	7,005,244	7,044,358	7,083,389	7,149,551	7,152,904	7,185,099	7,213,804	7,257,955
Industrial Therms	265,924	272,547	276,817	281,988	287,139	292,236	296,890	301,605	306,102	311,776
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	15,093,176	15,288,161	15,339,573	15,453,372	15,566,629	15,741,493	15,772,408	15,869,039	15,957,334	16,115,644
Daily BaseLoad Therms	12,335	12,368	12,390	12,475	12,616	12,760	12,849	12,850	12,846	12,965
Peak Day Therms	171,404	175,423	176,895	178,267	179,602	178,200	182,047	183,214	184,313	185,319
Therms Per Residential Customer	576	577	572	569	567	566	561	558	555	555
Therms Per Commercial Customer	4,549	4,542	4,495	4,468	4,442	4,432	4,386	4,358	4,329	4,320
Therms Per Industrial Customer	10,817	10,866	10,647	10,777	10,635	10,728	10,603	10,400	10,495	10,393
Residential Customers	13,721	13,909	14,096	14,281	14,467	14,651	14,835	15,018	15,200	15,381
Commercial Customers	1,521	1,540	1,558	1,577	1,595	1,613	1,631	1,649	1,666	1,684
Industrial Customers	25	25	26	26	27	27	28	29	29	30
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	15,267	15,474	15,680	15,884	16,088	16,291	16,493	16,695	16,895	17,095
<b>Oregon</b>										
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	62,857,513	64,529,690	65,521,213	66,854,752	68,198,522	69,998,128	70,871,183	72,204,998	73,527,731	75,255,604
Commercial Therms	37,647,573	38,306,310	38,575,129	39,041,096	39,514,404	40,182,829	40,449,271	40,915,654	41,374,716	42,053,516
Industrial Therms	4,143,896	6,281,721	6,366,020	6,477,938	6,591,898	6,732,812	6,818,062	6,931,595	7,044,031	7,188,070
Ind., Inst., & Cncl. Interup. Therms	2,588,850	2,598,490	2,588,306	2,588,308	2,588,850	2,598,490	2,588,850	2,588,848	2,588,310	2,597,950
<b>Total Core Therms</b>	109,235,621	111,716,212	113,048,667	114,960,092	116,991,674	119,412,258	120,725,363	122,639,094	124,532,788	127,095,140
Daily BaseLoad Therms	83,980	85,657	87,201	88,596	90,317	91,233	92,658	94,289	95,888	97,549
Peak Day Therms	997,339	1,034,252	1,052,256	1,070,253	1,088,247	1,087,018	1,124,911	1,142,911	1,160,908	1,179,606
Therms Per Residential Customer	715	719	715	715	716	716	716	716	716	720
Therms Per Commercial Customer	3,144	3,158	3,139	3,138	3,136	3,150	3,132	3,131	3,129	3,143
Therms Per Industrial Customer	29,633	29,701	29,382	29,334	29,254	29,358	29,137	29,104	29,058	29,180
Residential Customers	87,888	89,741	91,591	93,440	95,289	97,143	98,993	100,843	102,691	104,546
Commercial Customers	11,973	12,130	12,287	12,443	12,600	12,756	12,913	13,069	13,225	13,382
Industrial Customers	207	212	217	221	225	229	234	238	242	246
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	100,073	102,087	104,099	106,108	108,118	110,131	112,144	114,154	116,162	118,178

**Appendix B  
Demand Forecast  
Expected Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Washington</b>										
Total Therms Pct. Growth	1.21%	1.63%	0.70%	1.14%	1.14%	1.54%	0.63%	1.06%	1.01%	1.46%
Residential Therms	144,681,111	147,193,275	148,137,548	149,759,855	151,404,140	153,704,902	154,606,840	156,195,398	157,742,595	160,038,941
Commercial Therms	120,536,954	122,551,214	123,492,114	124,955,905	126,437,482	128,418,422	129,295,430	130,704,017	132,063,274	134,014,195
Industrial Therms	14,972,821	15,236,675	15,379,318	15,582,213	15,787,638	16,044,784	16,180,524	16,373,033	16,558,583	16,810,636
Ind., Inst., & Cmcl. Interup. Therms	2,209,272	2,218,032	2,209,741	2,210,074	2,210,640	2,219,168	2,211,085	2,211,425	2,211,417	2,220,062
<b>Total Core Therms</b>	<b>282,600,157</b>	<b>287,199,195</b>	<b>289,218,721</b>	<b>292,508,047</b>	<b>295,841,900</b>	<b>300,387,276</b>	<b>302,293,879</b>	<b>305,483,873</b>	<b>308,575,869</b>	<b>313,083,855</b>
Daily BaseLoad Therms	224,457	225,404	227,454	205,956	219,389	238,051	238,455	240,449	242,371	220,509
Peak Day Therms	2,233,840	2,327,376	2,353,534	2,379,369	2,405,022	2,361,913	2,457,088	2,482,155	2,507,018	2,533,250
Therms Per Residential Customer	622	623	618	616	614	615	610	608	606	607
Therms Per Commercial Customer	3,778	3,787	3,764	3,757	3,751	3,760	3,737	3,729	3,720	3,728
Therms Per Industrial Customer	25,098	25,091	24,946	24,912	24,856	24,856	24,709	24,674	24,656	24,655
Residential Customers	232,784	236,228	239,666	243,096	246,527	249,961	253,389	256,814	260,235	263,663
Commercial Customers	31,908	32,359	32,809	33,257	33,707	34,155	34,602	35,050	35,498	35,946
Industrial Customers	597	607	617	626	635	646	655	664	672	682
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
<b>Total Core Customers</b>	<b>265,295</b>	<b>269,201</b>	<b>273,098</b>	<b>276,986</b>	<b>280,875</b>	<b>284,769</b>	<b>288,653</b>	<b>292,535</b>	<b>296,412</b>	<b>300,298</b>
<b>System</b>										
Total Therms Pct. Growth	1.37%	1.81%	0.84%	1.29%	1.29%	1.71%	0.77%	1.21%	1.16%	1.63%
Residential Therms	207,738,623	211,722,965	213,658,761	216,614,607	219,604,662	223,603,030	225,478,024	228,400,396	231,270,326	235,294,565
Commercial Therms	158,184,527	160,857,525	162,067,243	163,997,000	165,951,886	168,601,250	169,744,701	171,619,671	173,437,991	176,067,711
Industrial Therms	21,116,717	21,518,396	21,745,338	22,060,150	22,379,536	22,777,595	22,998,586	23,304,628	23,602,615	23,996,706
Ind., Inst., & Cmcl. Interup. Therms	4,796,122	4,816,522	4,796,047	4,796,382	4,797,490	4,817,659	4,797,931	4,798,274	4,797,726	4,818,012
<b>Total Core Therms</b>	<b>391,835,989</b>	<b>398,915,408</b>	<b>402,267,389</b>	<b>407,468,140</b>	<b>412,733,574</b>	<b>419,795,534</b>	<b>423,019,242</b>	<b>428,122,968</b>	<b>433,108,657</b>	<b>440,176,994</b>
Daily BaseLoad Therms	308,437	311,061	314,655	294,552	309,706	329,284	331,113	334,739	338,239	318,078
Peak Day Therms	3,231,179	3,361,628	3,405,789	3,449,622	3,493,249	3,448,931	3,581,999	3,625,066	3,667,926	3,712,856
Therms Per Residential Customer	1,315	1,323	1,320	1,323	1,327	1,336	1,334	1,338	1,341	1,352
Therms Per Commercial Customer	4,373	4,408	4,397	4,413	4,423	4,461	4,449	4,463	4,473	4,507
Therms Per Industrial Customer	56,859	57,697	57,895	58,419	58,957	59,800	59,994	60,509	61,009	61,860
Residential Customers	320,672	325,969	331,257	336,536	341,815	347,104	352,382	357,657	362,927	368,209
Commercial Customers	43,881	44,489	45,096	45,700	46,307	46,911	47,515	48,119	48,723	49,328
Industrial Customers	804	819	833	846	861	875	889	902	914	928
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
<b>Total Core Customers</b>	<b>365,368</b>	<b>371,287</b>	<b>377,197</b>	<b>383,094</b>	<b>388,994</b>	<b>394,901</b>	<b>400,797</b>	<b>406,689</b>	<b>412,574</b>	<b>418,476</b>

**Appendix B  
Demand Forecast  
High Scenario**

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7th Day School	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cmcl. Interrup. Therms										
<b>Total Core Therms</b>	30,383	30,375	30,378	30,562	30,372	30,374	30,377	30,563	30,372	30,374
Daily BaseLoad Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	233	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	14	14	14	14	14	14	14	14	14	14
<b>Acme</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		0.23%	0.25%	0.67%	-0.15%	0.26%	0.26%	0.63%	-0.11%	0.26%
Residential Therms	54,454	54,659	54,875	55,323	55,322	55,545	55,770	56,207	56,230	56,462
Commercial Therms	31,823	31,818	31,818	31,950	31,823	31,823	31,823	31,941	31,823	31,823
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	86,277	86,478	86,693	87,273	87,145	87,368	87,593	88,149	88,052	88,285
Daily BaseLoad Therms	59	59	59	59	59	59	60	60	60	60
Peak Day Therms	798	800	802	792	794	808	811	813	815	805
Therms Per Residential Customer	801	804	790	796	796	799	802	792	792	795
Therms Per Commercial Customer	3,536	3,535	3,535	3,550	3,536	3,536	3,536	3,549	3,536	3,536
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	68	68	70	70	70	70	70	71	71	71
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	77	77	79	79	79	79	79	80	80	80
<b>Arlington</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		1.13%	1.08%	1.52%	0.67%	1.09%	1.08%	1.43%	0.68%	1.04%
Residential Therms	3,427,088	3,447,186	3,467,044	3,502,791	3,508,446	3,529,254	3,549,948	3,584,057	3,591,059	3,611,428
Commercial Therms	2,163,221	2,203,291	2,241,653	2,290,264	2,320,651	2,360,848	2,400,826	2,449,271	2,480,273	2,520,008
Industrial Therms	448,475	456,425	464,080	473,811	479,839	487,861	495,838	505,517	511,682	519,611
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	6,038,785	6,106,902	6,172,776	6,266,866	6,308,937	6,377,962	6,446,612	6,538,845	6,583,013	6,651,246
Daily BaseLoad Therms	5,563	5,678	5,749	5,765	5,790	5,863	5,983	6,087	6,164	6,187
Peak Day Therms	48,203	48,734	49,238	48,322	48,828	50,822	51,347	51,893	52,416	51,393
Therms Per Residential Customer	707	703	700	700	694	691	687	687	681	681
Therms Per Commercial Customer	3,409	3,365	3,323	3,296	3,244	3,209	3,172	3,148	3,104	3,072
Therms Per Industrial Customer	15,465	15,739	16,876	17,229	17,449	17,740	18,030	19,423	19,660	19,964
Residential Customers	4,849	4,901	4,953	5,005	5,058	5,111	5,164	5,218	5,271	5,325
Commercial Customers	635	655	675	695	715	736	757	778	799	820
Industrial Customers	29	29	28	28	28	28	28	26	26	26
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5,512	5,584	5,655	5,728	5,801	5,874	5,948	6,022	6,096	6,171
<b>Athens</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		2.10%	2.13%	2.51%	1.66%	2.00%	1.98%	2.13%	1.72%	1.83%
Residential Therms	318,195	321,518	325,057	329,920	332,261	335,784	339,385	343,570	346,552	350,010
Commercial Therms	136,477	137,630	138,885	140,746	141,457	142,704	143,981	145,532	146,519	147,745
Industrial Therms	33,415	39,206	45,029	51,074	56,705	62,524	68,346	74,350	80,046	85,844
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	488,087	498,354	508,971	521,740	530,424	541,012	551,713	563,452	573,117	583,000
Daily BaseLoad Therms	188	201	171	170	188	191	204	191	222	174
Peak Day Therms	3,896	3,987	4,077	3,728	3,810	4,362	4,452	4,557	4,647	4,231
Therms Per Residential Customer	600	594	588	584	576	571	565	561	555	549
Therms Per Commercial Customer	2,042	2,025	2,018	2,004	1,971	1,951	1,934	1,925	1,911	1,895
Therms Per Industrial Customer	33,415	18,450	17,451	19,793	21,976	14,359	15,051	16,373	17,628	12,603
Residential Customers	530	541	553	565	577	588	601	613	624	637
Commercial Customers	67	69	70	72	73	74	76	77	77	78
Industrial Customers	1	2	3	3	3	4	5	5	5	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	598	612	625	638	651	666	680	693	706	722
<b>Baker</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		1.06%	1.06%	1.57%	0.56%	1.04%	1.03%	1.47%	0.58%	1.01%
Residential Therms	2,401,466	2,420,190	2,439,251	2,471,137	2,477,706	2,496,409	2,514,891	2,544,868	2,551,543	2,569,584
Commercial Therms	1,672,143	1,687,509	1,703,221	1,727,787	1,735,149	1,750,868	1,766,588	1,790,209	1,798,106	1,813,825
Industrial Therms	155,194	165,770	176,333	187,724	198,333	209,667	221,461	234,010	246,001	258,713
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	4,228,802	4,273,469	4,318,805	4,386,648	4,411,188	4,456,945	4,502,940	4,569,087	4,596,649	4,642,123
Daily BaseLoad Therms	2,205	2,244	2,280	2,332	2,352	2,389	2,430	2,474	2,530	2,568
Peak Day Therms	41,040	41,424	41,808	41,182	41,554	42,976	43,359	43,759	44,142	43,429
Therms Per Residential Customer	707	704	700	701	694	691	688	688	682	680
Therms Per Commercial Customer	3,228	3,213	3,200	3,204	3,175	3,164	3,153	3,154	3,131	3,119
Therms Per Industrial Customer	51,731	55,257	58,778	62,575	66,111	69,889	73,820	78,003	82,000	86,238
Residential Customers	3,397	3,440	3,483	3,526	3,569	3,612	3,654	3,697	3,739	3,781
Commercial Customers	518	525	532	539	546	553	560	568	574	582
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	3,918	3,968	4,018	4,068	4,118	4,168	4,218	4,267	4,316	4,365

**Appendix B  
Demand Forecast  
High Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Bend Loop</b>										
Total Therms Pct. Growth	-	2.74%	2.64%	3.11%	1.99%	2.45%	2.90%	2.84%	1.79%	2.23%
Residential Therms	28,481,892	29,394,014	30,304,181	31,381,660	32,133,467	33,045,828	33,958,449	35,045,677	35,787,528	36,701,035
Commercial Therms	13,293,087	13,518,763	13,733,496	14,021,067	14,166,291	14,382,092	14,598,064	14,886,402	15,031,306	15,247,808
Industrial Therms	772,798	799,995	826,990	857,771	881,620	909,099	936,645	967,970	991,949	1,019,499
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>42,547,777</b>	<b>43,712,773</b>	<b>44,864,666</b>	<b>46,260,498</b>	<b>47,181,378</b>	<b>48,337,019</b>	<b>49,493,177</b>	<b>50,900,049</b>	<b>51,810,782</b>	<b>52,968,542</b>
Daily Baseload Therms	20,969	21,744	22,416	22,983	23,539	24,206	24,993	25,791	26,465	27,010
Peak Day Therms	414,701	425,889	437,051	443,270	454,332	470,731	481,930	493,261	504,472	509,855
Therms Per Residential Customer	801	790	778	772	758	748	738	733	720	712
Therms Per Commercial Customer	3,076	3,053	3,029	3,020	2,982	2,959	2,936	2,928	2,892	2,871
Therms Per Industrial Customer	22,509	21,357	20,392	19,610	18,752	18,047	17,358	16,838	16,237	15,705
Residential Customers	35,553	37,229	38,928	40,658	42,411	44,189	45,991	47,823	49,675	51,551
Commercial Customers	4,321	4,428	4,534	4,643	4,751	4,861	4,972	5,084	5,197	5,310
Industrial Customers	34	37	41	44	47	50	54	57	61	65
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>39,908</b>	<b>41,694</b>	<b>43,503</b>	<b>45,344</b>	<b>47,209</b>	<b>49,100</b>	<b>51,017</b>	<b>52,964</b>	<b>54,933</b>	<b>56,926</b>
<b>Bremerton (Shelton)</b>										
Total Therms Pct. Growth	-	1.51%	1.49%	1.91%	1.02%	1.42%	1.40%	1.80%	0.95%	1.35%
Residential Therms	24,419,847	24,796,129	25,174,513	25,667,571	25,935,184	26,313,633	26,692,083	27,184,816	27,450,504	27,828,955
Commercial Therms	13,064,749	13,279,344	13,493,821	13,766,537	13,924,932	14,139,441	14,353,950	14,626,393	14,783,835	14,998,345
Industrial Therms	463,670	469,824	476,015	484,301	488,462	494,654	500,846	509,118	513,254	519,446
Ind., Inst., & Cncl. Interup. Therms	1,757,447	1,759,943	1,760,012	1,766,917	1,760,150	1,760,150	1,766,645	1,760,150	1,760,150	1,760,150
<b>Total Core Therms</b>	<b>39,705,712</b>	<b>40,305,240</b>	<b>40,904,361</b>	<b>41,685,325</b>	<b>42,108,728</b>	<b>42,707,877</b>	<b>43,307,028</b>	<b>44,086,972</b>	<b>44,507,744</b>	<b>45,106,895</b>
Daily Baseload Therms	34,633	35,193	35,712	36,206	36,645	37,163	37,722	38,254	38,815	39,293
Peak Day Therms	313,286	317,982	322,676	323,918	328,540	336,960	341,641	346,535	351,228	351,959
Therms Per Residential Customer	714	708	702	700	691	686	680	678	670	665
Therms Per Commercial Customer	4,113	4,077	4,042	4,026	3,976	3,943	3,911	3,896	3,850	3,821
Therms Per Industrial Customer	30,911	31,322	31,734	32,287	32,564	32,977	33,390	33,941	34,217	34,630
Residential Customers	34,179	35,006	35,840	36,683	37,530	38,384	39,244	40,112	40,985	41,864
Commercial Customers	3,176	3,257	3,338	3,420	3,503	3,586	3,670	3,754	3,840	3,925
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>37,372</b>	<b>38,280</b>	<b>39,195</b>	<b>40,120</b>	<b>41,050</b>	<b>41,987</b>	<b>42,931</b>	<b>43,883</b>	<b>44,841</b>	<b>45,807</b>
<b>Brouillette Hop</b>										
Total Therms Pct. Growth	-	-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,383</b>	<b>30,375</b>	<b>30,378</b>	<b>30,562</b>	<b>30,372</b>	<b>30,374</b>	<b>30,377</b>	<b>30,563</b>	<b>30,372</b>	<b>30,374</b>
Daily Baseload Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	234	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Burbank Heights Loop</b>										
Total Therms Pct. Growth	-	2.69%	2.40%	2.86%	1.75%	2.24%	2.12%	2.48%	1.49%	1.80%
Residential Therms	6,638,121	6,828,422	7,001,528	7,211,170	7,345,279	7,518,481	7,685,338	7,883,154	8,006,168	8,162,090
Commercial Therms	4,987,467	5,115,192	5,233,549	5,378,791	5,469,325	5,587,938	5,703,040	5,841,439	5,926,194	6,035,328
Industrial Therms	284,789	286,845	288,956	292,290	293,252	295,383	297,525	300,735	301,820	303,983
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>11,910,377</b>	<b>12,230,459</b>	<b>12,524,033</b>	<b>12,882,252</b>	<b>13,107,855</b>	<b>13,401,803</b>	<b>13,685,923</b>	<b>14,025,327</b>	<b>14,234,183</b>	<b>14,501,400</b>
Daily Baseload Therms	9,251	9,473	9,131	9,193	10,162	10,358	10,546	10,299	10,679	10,265
Peak Day Therms	76,171	78,124	79,883	79,279	80,953	85,592	87,279	89,430	91,046	89,430
Therms Per Residential Customer	548	535	523	514	500	490	480	472	461	452
Therms Per Commercial Customer	4,200	4,140	4,085	4,054	3,982	3,933	3,884	3,856	3,796	3,755
Therms Per Industrial Customer	21,907	22,065	22,227	22,484	22,558	22,722	22,887	23,133	23,217	23,383
Residential Customers	12,118	12,752	13,386	14,031	14,685	15,350	16,020	16,699	17,385	18,077
Commercial Customers	1,188	1,235	1,281	1,327	1,373	1,421	1,468	1,515	1,561	1,607
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,319</b>	<b>14,000</b>	<b>14,680</b>	<b>15,371</b>	<b>16,072</b>	<b>16,783</b>	<b>17,502</b>	<b>18,227</b>	<b>18,959</b>	<b>19,698</b>
<b>Castle Rock</b>										
Total Therms Pct. Growth	-	0.21%	0.20%	0.62%	-0.22%	0.20%	0.20%	0.65%	-0.25%	0.20%
Residential Therms	37,394	37,848	38,299	38,942	39,201	39,654	40,107	40,771	41,016	41,471
Commercial Therms	147,467	147,407	147,331	147,838	147,161	147,083	147,005	147,557	146,848	146,768
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>184,861</b>	<b>185,255</b>	<b>185,630</b>	<b>186,780</b>	<b>186,362</b>	<b>186,737</b>	<b>187,112</b>	<b>188,328</b>	<b>187,864</b>	<b>188,239</b>
Daily Baseload Therms	254	254	254	256	255	255	255	255	255	255
Peak Day Therms	1,233	1,235	1,238	1,261	1,264	1,247	1,250	1,254	1,256	1,279
Therms Per Residential Customer	506	490	473	459	443	429	417	406	393	383
Therms Per Commercial Customer	3,072	3,071	3,069	3,080	3,066	3,064	3,063	3,074	3,059	3,058
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	74	77	81	85	89	93	96	100	104	108
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>122</b>	<b>125</b>	<b>129</b>	<b>133</b>	<b>137</b>	<b>141</b>	<b>144</b>	<b>148</b>	<b>152</b>	<b>156</b>



Appendix B  
Demand Forecast  
High Scenario

Chemult	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.08%	0.07%	0.58%	-0.44%	0.07%	0.06%	0.58%	-0.46%	0.06%
Residential Therms	14,158	14,201	14,243	14,354	14,325	14,363	14,400	14,504	14,468	14,499
Commercial Therms	43,390	43,393	43,393	43,617	43,392	43,392	43,392	43,620	43,392	43,392
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>57,549</b>	<b>57,594</b>	<b>57,636</b>	<b>57,971</b>	<b>57,717</b>	<b>57,755</b>	<b>57,792</b>	<b>58,125</b>	<b>57,860</b>	<b>57,891</b>
Daily Baseload Therms	46	46	46	46	46	46	46	46	46	46
Peak Day Therms	416	417	417	419	419	418	418	419	419	420
Therms Per Residential Customer	545	546	548	552	551	552	554	558	556	527
Therms Per Commercial Customer	2,170	2,170	2,170	2,181	2,170	2,170	2,170	2,181	2,170	2,170
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	26	26	26	26	26	26	26	26	26	28
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>46</b>	<b>48</b>
<b>Dehawn Dairy</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%
Residential Therms	4,056	4,057	4,057	4,068	4,056	4,056	4,056	4,068	4,056	4,056
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,056</b>	<b>4,057</b>	<b>4,057</b>	<b>4,068</b>	<b>4,056</b>	<b>4,056</b>	<b>4,056</b>	<b>4,068</b>	<b>4,056</b>	<b>4,056</b>
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	12	12	12	12	12	12	12	12	12	12
Therms Per Residential Customer	2,028	2,028	2,028	2,034	2,028	2,028	2,028	2,034	2,028	2,028
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>Deming</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		0.05%	0.14%	0.70%	-0.31%	0.15%	0.15%	0.45%	-0.17%	0.15%
Residential Therms	15,420	15,407	15,407	15,491	15,421	15,421	15,420	15,467	15,419	15,418
Commercial Therms	100,626	100,696	100,855	101,585	101,286	101,466	102,123	102,123	101,974	102,149
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>116,046</b>	<b>116,103</b>	<b>116,262</b>	<b>117,076</b>	<b>116,707</b>	<b>116,886</b>	<b>117,063</b>	<b>117,590</b>	<b>117,393</b>	<b>117,568</b>
Daily Baseload Therms	54	53	44	46	54	54	54	45	56	46
Peak Day Therms	1,133	1,134	1,135	1,038	1,039	1,140	1,141	1,143	1,144	1,045
Therms Per Residential Customer	642	642	642	645	643	643	642	644	644	642
Therms Per Commercial Customer	7,740	7,746	7,758	7,814	7,791	7,805	7,819	7,856	7,844	7,858
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>
<b>East Stanwood Loop</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.23%	1.21%	1.63%	0.76%	1.16%	1.15%	1.54%	0.73%	1.11%
Residential Therms	5,772,548	5,849,395	5,926,763	6,030,617	6,082,403	6,159,786	6,237,168	6,340,597	6,392,238	6,449,621
Commercial Therms	3,716,994	3,745,106	3,812,045	3,875,486	3,904,533	3,953,539	4,000,570	4,063,673	4,094,867	4,141,980
Industrial Therms	508,954	507,667	506,418	506,787	504,021	502,772	501,524	501,763	499,088	497,840
Ind., Inst., & Cmcl. Interup. Therms	87,633	87,637	87,637	87,940	87,644	87,644	87,644	87,927	87,644	87,644
<b>Total Core Therms</b>	<b>10,086,149</b>	<b>10,209,805</b>	<b>10,332,863</b>	<b>10,500,830</b>	<b>10,580,601</b>	<b>10,703,741</b>	<b>10,826,906</b>	<b>10,992,960</b>	<b>11,073,837</b>	<b>11,197,084</b>
Daily Baseload Therms	9,477	9,617	9,728	9,802	9,876	9,979	10,118	10,261	10,369	10,443
Peak Day Therms	76,087	76,996	77,906	77,875	78,773	80,704	81,614	82,596	83,506	83,334
Therms Per Residential Customer	673	668	663	662	655	650	646	645	638	634
Therms Per Commercial Customer	3,724	3,691	3,656	3,638	3,592	3,561	3,530	3,514	3,471	3,443
Therms Per Industrial Customer	169,651	169,222	168,806	168,929	168,007	167,591	167,175	167,254	166,363	165,947
Residential Customers	8,581	8,757	8,933	9,112	9,291	9,471	9,652	9,835	10,019	10,204
Commercial Customers	998	1,020	1,043	1,065	1,088	1,110	1,133	1,157	1,180	1,203
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>9,583</b>	<b>9,781</b>	<b>9,980</b>	<b>10,181</b>	<b>10,382</b>	<b>10,585</b>	<b>10,790</b>	<b>10,996</b>	<b>11,203</b>	<b>11,411</b>
<b>Finley</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.34%	1.24%	1.87%	0.66%	1.26%	1.23%	1.75%	0.69%	1.21%
Residential Therms	18,527	18,792	19,055	19,433	19,594	19,866	20,138	20,514	20,685	20,960
Commercial Therms	68,827	69,733	70,566	71,866	72,310	73,192	74,068	75,340	75,827	76,721
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>87,354</b>	<b>88,525</b>	<b>89,621</b>	<b>91,299</b>	<b>91,904</b>	<b>93,058</b>	<b>94,206</b>	<b>95,854</b>	<b>96,512</b>	<b>97,682</b>
Daily Baseload Therms	23	24	7	6	24	25	26	7	15	7
Peak Day Therms	684	692	698	690	697	727	734	748	756	738
Therms Per Residential Customer	607	592	577	562	542	529	514	506	492	483
Therms Per Commercial Customer	5,294	5,364	5,428	5,528	5,562	5,630	5,698	5,795	5,833	5,902
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	31	32	33	35	36	38	39	41	42	43
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>48</b>	<b>49</b>	<b>51</b>	<b>52</b>	<b>54</b>	<b>55</b>	<b>56</b>

**Appendix B  
Demand Forecast  
High Scenario**

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



	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>LDS Church</b>										
Total Thermo Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,591	5,589	5,589	5,614	5,589	5,589	5,589	5,614	5,589	5,589
Commercial Therms	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	11,010	11,008	11,008	11,062	11,008	11,008	11,008	11,062	11,008	11,008
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	63	63	63	63	63	63	63	63	63	63
Therms Per Residential Customer	1,398	1,397	1,397	1,404	1,397	1,397	1,397	1,404	1,397	1,397
Therms Per Commercial Customer	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5	5	5	5	5	5	5	5	5	5
<b>Longview South Loop</b>										
Total Thermo Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,213,888	1,246,138	1,278,724	1,316,491	1,344,432	1,377,015	1,409,591	1,446,607	1,474,864	1,507,415
Commercial Therms	4,745,404	4,804,758	4,865,428	4,944,762	4,988,479	5,049,183	5,109,888	5,185,805	5,231,552	5,292,257
Industrial Therms	208,277	204,297	200,380	197,102	192,575	188,671	184,772	181,310	176,952	173,071
Ind., Inst., & Cmcl. Interrup. Therms	93,191	93,148	93,141	93,494	93,130	93,483	93,483	93,163	93,163	93,145
<b>Total Core Therms</b>	6,260,760	6,348,242	6,437,674	6,551,849	6,618,616	6,700,028	6,797,445	6,907,175	6,976,532	7,065,888
Daily Baseload Therms	5,301	5,372	5,375	4,131	5,674	5,730	5,678	4,010	4,939	4,455
Peak Day Therms	61,808	62,652	63,495	62,612	63,431	66,147	66,988	67,960	68,802	67,642
Therms Per Residential Customer	580	570	561	555	544	536	529	523	514	507
Therms Per Commercial Customer	5,098	5,045	4,995	4,964	4,898	4,853	4,807	4,778	4,720	4,678
Therms Per Industrial Customer	16,021	15,715	15,414	15,162	14,813	14,513	14,213	13,947	13,612	13,313
Residential Customers	2,092	2,185	2,279	2,374	2,470	2,568	2,667	2,767	2,868	2,971
Commercial Customers	931	952	974	996	1,018	1,040	1,063	1,085	1,108	1,131
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	3,037	3,151	3,267	3,384	3,503	3,623	3,744	3,867	3,991	4,116
<b>Madras</b>										
Total Thermo Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	752,687	763,717	775,000	790,798	797,964	809,420	820,876	836,371	843,780	855,265
Commercial Therms	1,305,469	1,317,918	1,330,776	1,350,917	1,357,072	1,370,127	1,383,181	1,402,599	1,409,289	1,422,376
Industrial Therms	965,980	975,496	985,311	1,000,886	1,005,355	1,015,321	1,025,287	1,040,361	1,045,199	1,055,190
Ind., Inst., & Cmcl. Interrup. Therms	307,667	307,586	307,586	309,284	307,667	307,667	307,667	309,121	307,667	307,667
<b>Total Core Therms</b>	3,331,804	3,364,717	3,398,673	3,451,885	3,468,059	3,502,535	3,537,011	3,588,451	3,605,936	3,640,497
Daily Baseload Therms	1,639	1,675	1,695	1,694	1,696	1,715	1,753	1,789	1,809	1,810
Peak Day Therms	28,729	29,028	29,328	28,721	29,015	30,229	30,533	30,827	31,132	30,485
Therms Per Residential Customer	568	556	545	538	525	516	507	501	490	482
Therms Per Commercial Customer	3,419	3,436	3,443	3,479	3,470	3,484	3,496	3,520	3,519	3,527
Therms Per Industrial Customer	53,666	54,194	54,740	55,605	55,853	56,407	56,960	57,798	58,067	58,522
Residential Customers	1,325	1,373	1,421	1,470	1,519	1,569	1,619	1,670	1,721	1,773
Commercial Customers	382	384	386	388	391	393	396	398	400	403
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	1,726	1,776	1,827	1,877	1,929	1,981	2,034	2,087	2,141	2,196
<b>McCleary (Aberdeen/Hoquiam)</b>										
Total Thermo Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,726,619	2,764,269	2,800,768	2,850,625	2,874,924	2,911,474	2,948,023	2,995,646	3,021,272	3,057,836
Commercial Therms	3,408,272	3,424,933	3,442,763	3,475,440	3,479,608	3,479,813	3,479,608	3,515,472	3,544,750	3,551,289
Industrial Therms	227,536	225,161	222,859	221,429	218,323	216,026	213,729	212,053	209,127	206,833
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	6,364,428	6,414,363	6,466,390	6,547,494	6,573,060	6,625,108	6,677,225	6,752,449	6,781,688	6,833,907
Daily Baseload Therms	5,975	6,002	6,024	6,086	6,139	6,168	6,196	6,254	6,282	6,309
Peak Day Therms	39,922	40,251	40,579	38,894	39,206	41,683	42,011	42,461	42,789	40,883
Therms Per Residential Customer	743	735	727	723	713	706	700	695	686	680
Therms Per Commercial Customer	4,738	4,714	4,696	4,696	4,660	4,639	4,623	4,617	4,584	4,567
Therms Per Industrial Customer	17,503	17,320	17,143	17,033	16,794	16,617	16,441	16,312	16,087	15,910
Residential Customers	3,672	3,761	3,850	3,940	4,031	4,122	4,214	4,307	4,401	4,496
Commercial Customers	719	727	733	740	747	754	760	768	775	782
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	4,404	4,500	4,596	4,693	4,791	4,889	4,988	5,088	5,189	5,290
<b>Milton-Freewater</b>										
Total Thermo Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	115,842	117,095	118,389	120,386	121,032	122,327	123,621	125,524	126,225	127,519
Commercial Therms	332,753	337,927	343,227	350,295	353,994	359,298	364,602	371,357	375,236	380,539
Industrial Therms	20,210	19,503	18,802	18,208	17,410	16,709	16,008	15,383	14,610	13,909
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	468,804	474,525	480,418	488,889	492,436	498,334	504,231	512,264	516,071	521,968
Daily Baseload Therms	392	393	384	391	417	423	425	413	422	422
Peak Day Therms	5,358	5,425	5,493	5,383	5,448	5,696	5,763	5,831	5,898	5,774
Therms Per Residential Customer	467	457	448	442	431	423	416	410	401	395
Therms Per Commercial Customer	3,105	3,067	3,032	3,013	2,966	2,935	2,903	2,885	2,844	2,816
Therms Per Industrial Customer	4,755	4,589	4,424	4,284	4,097	3,932	3,767	3,619	3,438	3,273
Residential Customers	248	256	264	272	281	289	297	306	314	323
Commercial Customers	107	110	113	116	119	122	126	129	132	135
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	359	371	382	393	404	416	427	439	451	462

Appendix B  
Demand Forecast  
High Scenario

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Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		0.85%	0.84%	1.23%	0.43%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	131,291	131,927	132,563	133,285	133,844	134,480	135,115	136,348	136,396	137,022
Commercial Therms	439,827	444,037	448,213	454,132	456,573	460,749	464,925	470,924	473,291	477,467
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	571,118	575,963	580,776	587,917	590,417	595,229	600,041	607,273	609,687	614,499
Daily Baseload Therms	576	581	586	591	596	601	606	611	616	621
Peak Day Therms	6,291	6,344	6,396	6,453	6,506	6,553	6,606	6,658	6,710	6,768
Therms Per Residential Customer	596	595	593	593	588	586	585	587	583	580
Therms Per Commercial Customer	9,774	9,732	9,586	9,457	9,214	9,226	9,074	8,941	8,897	8,789
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	222	224	226	228	229	231	232	234	236
Commercial Customers	45	46	47	48	50	50	51	53	53	54
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	265	267	270	274	277	279	282	285	287	291

Moses Lake	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		0.44%	0.37%	0.82%	-0.17%	0.34%	0.31%	0.69%	-0.11%	0.28%
Residential Therms	316,882	318,698	320,272	323,437	323,105	324,605	325,992	328,755	328,656	329,939
Commercial Therms	2,430,134	2,444,165	2,455,869	2,478,603	2,476,502	2,487,514	2,497,485	2,516,846	2,516,621	2,525,832
Industrial Therms	122,431	119,114	116,364	114,124	111,523	108,908	106,504	104,649	101,874	99,644
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	2,869,448	2,881,977	2,892,505	2,916,164	2,911,130	2,921,027	2,929,982	2,950,250	2,947,152	2,955,415
Daily Baseload Therms	2,768	2,777	2,794	2,825	2,836	2,852	2,855	2,844	2,873	2,900
Peak Day Therms	17,834	17,874	17,901	17,480	17,492	18,051	18,070	18,173	18,191	17,644
Therms Per Residential Customer	442	444	445	449	448	449	450	453	453	454
Therms Per Commercial Customer	6,351	6,366	6,384	6,429	6,409	6,427	6,432	6,475	6,454	6,465
Therms Per Industrial Customer	15,304	14,889	14,545	14,266	13,940	13,613	13,313	13,081	12,734	12,455
Residential Customers	717	718	720	720	722	723	724	725	726	727
Commercial Customers	383	384	385	386	386	387	388	389	390	391
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,108	1,110	1,112	1,114	1,116	1,118	1,120	1,122	1,124	1,126

Moxee (Beauchene)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	676,469	688,734	701,072	716,785	725,476	737,285	748,861	763,321	771,151	781,914
Commercial Therms	560,013	589,724	619,349	651,699	677,740	706,107	733,901	764,025	787,462	813,312
Industrial Therms	675,186	665,570	656,139	647,821	637,346	628,286	619,434	611,610	602,309	593,941
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	1,911,668	1,944,028	1,976,561	2,016,305	2,040,562	2,071,679	2,102,196	2,138,957	2,160,921	2,189,168
Daily Baseload Therms	330	367	416	527	552	393	417	461	607	622
Peak Day Therms	11,526	11,801	12,072	11,990	12,246	12,977	13,229	13,992	13,831	13,549
Therms Per Residential Customer	621	609	596	586	572	561	561	543	531	522
Therms Per Commercial Customer	8,854	8,969	9,138	9,333	9,360	9,510	9,529	9,684	9,620	9,709
Therms Per Industrial Customer	5,475	52,893	52,144	50,973	49,655	48,471	47,324	45,834	43,871	42,857
Residential Customers	1,089	1,131	1,177	1,223	1,269	1,315	1,360	1,407	1,453	1,499
Commercial Customers	63	66	68	70	72	74	77	79	82	84
Industrial Customers	12	13	13	13	13	13	13	13	14	14
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,165	1,209	1,257	1,306	1,354	1,402	1,451	1,499	1,549	1,596

North Bend	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		4.26%	4.15%	4.70%	3.19%	3.66%	3.54%	4.01%	2.82%	3.23%
Residential Therms	5,509	5,711	5,910	6,156	6,318	6,524	6,734	6,989	7,166	7,382
Commercial Therms	201,099	210,166	219,373	230,139	237,948	247,084	256,233	266,904	274,827	284,045
Industrial Therms	10,888	10,887	10,887	10,966	10,894	10,890	10,892	10,949	10,894	10,898
Ind., Inst., & Cncl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	217,496	226,764	236,169	247,261	255,161	264,498	273,859	284,842	292,886	302,344
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	3,543	3,709	3,875	3,927	4,089	4,369	4,536	4,698	4,865	4,899
Therms Per Residential Customer	1,377	1,428	1,477	1,539	1,580	1,631	1,684	1,747	1,791	1,845
Therms Per Commercial Customer	2,350	2,264	2,190	2,146	2,068	2,010	1,957	1,922	1,865	1,821
Therms Per Industrial Customer	5,444	5,443	5,443	5,483	5,447	5,445	5,446	5,475	5,447	5,449
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	86	93	100	107	115	123	131	139	147	156
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	92	99	106	113	121	129	137	145	153	162

Nyssa-Ontario	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Total Therms Pct. Growth</b>		1.03%	1.03%	1.53%	0.51%	1.00%	0.99%	1.45%	0.50%	0.96%
Residential Therms	2,233,473	2,259,711	2,286,255	2,325,522	2,339,849	2,366,401	2,392,952	2,431,798	2,446,226	2,472,777
Commercial Therms	2,707,358	2,742,694	2,778,385	2,820,704	2,850,301	2,886,004	2,921,706	2,971,604	2,993,261	3,028,964
Industrial Therms	497,847	502,053	506,323	512,104	514,441	518,738	523,033	528,596	531,623	535,920
Ind., Inst., & Cncl. Interrup. Therms	959,466	959,332	959,333	964,183	959,466	959,467	959,469	963,912	959,466	959,467
<b>Total Core Therms</b>	6,398,145	6,463,789	6,530,297	6,630,514	6,664,057	6,730,610	6,797,160	6,995,911	6,930,575	6,997,129
Daily Baseload Therms	4,045	4,074	4,118	4,160	4,184	4,206	4,231	4,248	4,299	4,350
Peak Day Therms	46,109	46,588	47,065	46,773	47,240	48,639	49,115	49,739	50,215	49,725
Therms Per Residential Customer	581	577	574	573	566	563	559	559	553	549
Therms Per Commercial Customer	2,862	2,844	2,825	2,823	2,794	2,777	2,760	2,758	2,730	2,716
Therms Per Industrial Customer	21,110	20,423	19,490	18,959	18,334	17,733	17,019	16,680	16,142	15,672
Residential Customers	3,843	3,914	3,986	4,059	4,131	4,204	4,278	4,352	4,427	4,501
Commercial Customers	946	964	983	1,002	1,020	1,039	1,058	1,077	1,096	1,115
Industrial Customers	24	25	26	27	28	29	31	32	33	34
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	4,814	4,904	4,997	5,089	5,181	5,274	5,368	5,462	5,557	5,651

Appendix B  
Demand Forecast  
High Scenario

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Othello</b>										
Total Therms Pct. Growth		0.71%	0.65%	0.99%	0.35%	0.62%	0.67%	1.03%	0.30%	0.62%
Residential Therms	640,302	661,612	662,838	667,046	665,340	666,583	667,859	672,201	670,544	671,784
Commercial Therms	1,447,081	1,462,914	1,477,457	1,495,960	1,507,583	1,521,700	1,537,241	1,557,585	1,569,590	1,584,281
Industrial Therms	221,903	221,903	221,902	222,862	221,903	221,903	221,902	222,862	221,903	221,903
Ind., Inst., & Cmcl. Interup. Therms	90,372	90,372	90,372	90,702	90,372	90,372	90,373	90,700	90,372	90,372
<b>Total Core Therms</b>	<b>2,419,658</b>	<b>2,436,801</b>	<b>2,452,569</b>	<b>2,476,589</b>	<b>2,485,218</b>	<b>2,500,529</b>	<b>2,517,373</b>	<b>2,543,348</b>	<b>2,552,409</b>	<b>2,568,340</b>
Daily Baseload Therms	1,808	1,823	1,836	1,853	1,868	1,881	1,896	1,916	1,931	1,943
Peak Day Therms	13,120	13,191	13,256	13,285	13,357	13,446	13,515	13,577	13,652	13,691
Therms Per Residential Customer	599	596	592	592	586	583	580	580	574	572
Therms Per Commercial Customer	4,729	4,681	4,624	4,583	4,520	4,466	4,422	4,387	4,370	4,289
Therms Per Industrial Customer	24,656	24,656	24,656	24,762	24,656	24,656	24,656	24,762	24,656	24,656
Residential Customers	1,103	1,111	1,119	1,127	1,135	1,143	1,151	1,159	1,167	1,175
Commercial Customers	306	313	320	326	334	341	348	355	362	369
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,419</b>	<b>1,433</b>	<b>1,448</b>	<b>1,463</b>	<b>1,478</b>	<b>1,494</b>	<b>1,508</b>	<b>1,524</b>	<b>1,539</b>	<b>1,555</b>
<b>Patterson</b>										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	43	53	61	70	78	88	97	105	115	124
Commercial Therms	320,904	320,732	320,731	321,352	320,904	320,904	320,905	321,008	320,902	320,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>320,947</b>	<b>320,784</b>	<b>320,792</b>	<b>321,422</b>	<b>320,983</b>	<b>320,992</b>	<b>321,001</b>	<b>321,114</b>	<b>321,016</b>	<b>321,027</b>
Daily Baseload Therms	159	162	157	155	159	159	159	159	155	154
Peak Day Therms	377	379	380	204	206	379	381	376	378	208
Therms Per Residential Customer	43	53	61	70	78	88	97	105	115	124
Therms Per Commercial Customer	64,181	64,146	64,146	64,270	64,181	64,181	64,181	64,202	64,180	64,181
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Pendleton</b>										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	3,028,109	3,060,127	3,092,575	3,141,663	3,158,209	3,190,667	3,223,125	3,271,500	3,288,309	3,320,767
Commercial Therms	2,514,539	2,533,584	2,552,987	2,585,165	2,592,320	2,611,729	2,631,139	2,662,558	2,670,101	2,689,511
Industrial Therms	165,791	165,780	165,789	166,736	165,791	165,787	165,795	166,685	165,825	165,818
Ind., Inst., & Cmcl. Interup. Therms	705,017	704,910	704,910	707,723	705,017	705,017	705,017	707,509	705,017	705,017
<b>Total Core Therms</b>	<b>6,413,456</b>	<b>6,464,401</b>	<b>6,516,261</b>	<b>6,601,287</b>	<b>6,621,338</b>	<b>6,673,201</b>	<b>6,725,075</b>	<b>6,808,251</b>	<b>6,829,253</b>	<b>6,881,113</b>
Daily Baseload Therms	4,958	5,004	5,038	5,042	5,068	5,113	5,164	5,213	5,239	5,246
Peak Day Therms	66,220	66,757	67,293	66,962	67,491	68,980	69,515	70,132	70,667	70,212
Therms Per Residential Customer	589	584	578	576	568	563	559	557	549	545
Therms Per Commercial Customer	3,268	3,241	3,214	3,204	3,184	3,138	3,114	3,104	3,067	3,044
Therms Per Industrial Customer	27,632	27,630	27,631	27,789	27,632	27,631	27,632	27,781	27,637	27,636
Residential Customers	5,138	5,242	5,346	5,451	5,557	5,663	5,770	5,878	5,986	6,096
Commercial Customers	769	782	794	807	819	832	845	858	870	884
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,915</b>	<b>6,031</b>	<b>6,148</b>	<b>6,265</b>	<b>6,384</b>	<b>6,502</b>	<b>6,622</b>	<b>6,743</b>	<b>6,864</b>	<b>6,986</b>
<b>Plymouth</b>										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856
Commercial Therms	10,162	10,160	10,162	10,232	10,159	10,160	10,161	10,233	10,159	10,160
Industrial Therms	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,383</b>	<b>30,375</b>	<b>30,378</b>	<b>30,562</b>	<b>30,372</b>	<b>30,374</b>	<b>30,377</b>	<b>30,563</b>	<b>30,372</b>	<b>30,374</b>
Daily Baseload Therms	6	6	7	6	6	6	6	6	6	6
Peak Day Therms	233	233	233	234	234	233	233	234	233	234
Therms Per Residential Customer	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364	1,357	1,357
Therms Per Commercial Customer	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047	2,032	2,032
Therms Per Industrial Customer	9,365	9,359	9,360	9,422	9,358	9,359	9,360	9,422	9,358	9,359
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Prineville</b>										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,742,333	1,796,460	1,851,011	1,916,975	1,960,850	2,015,391	2,069,914	2,135,544	2,179,163	2,233,448
Commercial Therms	1,848,753	1,875,593	1,902,862	1,941,215	1,958,066	1,985,368	2,012,686	2,050,140	2,067,473	2,094,801
Industrial Therms	445,682	446,283	446,980	450,236	448,488	449,193	449,901	452,863	451,326	452,042
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,036,767</b>	<b>4,118,336</b>	<b>4,200,853</b>	<b>4,308,426</b>	<b>4,367,404</b>	<b>4,449,952</b>	<b>4,532,501</b>	<b>4,638,547</b>	<b>4,697,962</b>	<b>4,780,492</b>
Daily Baseload Therms	2,448	2,470	2,519	2,640	2,691	2,742	2,740	2,788	2,872	2,956
Peak Day Therms	39,034	39,835	40,636	40,361	41,141	43,050	43,851	44,663	45,464	45,053
Therms Per Residential Customer	634	624	614	609	596	588	580	575	565	557
Therms Per Commercial Customer	3,470	3,435	3,406	3,394	3,346	3,318	3,289	3,278	3,235	3,209
Therms Per Industrial Customer	13,928	13,946	13,968	14,070	14,015	14,037	14,059	14,152	14,104	14,126
Residential Customers	2,747	2,879	3,014	3,150	3,288	3,428	3,570	3,714	3,860	4,008
Commercial Customers	533	546	559	572	585	598	612	625	639	653
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>3,312</b>	<b>3,457</b>	<b>3,604</b>	<b>3,754</b>	<b>3,905</b>	<b>4,059</b>	<b>4,214</b>	<b>4,372</b>	<b>4,531</b>	<b>4,693</b>



Appendix B  
Demand Forecast  
High Scenario

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



**Appendix B  
Demand Forecast  
High Scenario**

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

**Appendix B  
Demand Forecast  
High Scenario**

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

Yakima Loop	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	13,614,735	13,826,109	14,039,475	14,329,377	14,462,862	14,667,094	14,867,286	15,133,711	15,253,341	15,439,465
Commercial Therms	13,838,589	14,082,942	14,329,134	14,649,699	14,817,401	15,053,055	15,284,049	15,577,536	15,729,358	15,944,122
Industrial Therms	3,373,158	3,486,044	3,598,722	3,727,511	3,821,720	3,929,585	4,035,316	4,152,817	4,239,153	4,337,456
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,826,482</b>	<b>31,395,095</b>	<b>31,967,331</b>	<b>32,706,587</b>	<b>33,101,983</b>	<b>33,649,735</b>	<b>34,186,652</b>	<b>34,864,064</b>	<b>35,221,852</b>	<b>35,721,043</b>
Daily Baseoad Therms	20,897	21,036	21,461	22,445	22,802	23,303	23,777	23,994	24,108	24,822
Peak Day Therms	249,788	274,649	279,468	274,766	279,303	293,716	298,230	302,809	307,110	300,704
Therms Per Residential Customer	691	687	684	684	676	672	668	667	660	655
Therms Per Commercial Customer	3,879	3,857	3,836	3,834	3,793	3,770	3,746	3,738	3,696	3,670
Therms Per Industrial Customer	37,865	37,451	36,998	36,674	35,894	35,493	35,089	34,796	34,294	33,869
Residential Customers	19,696	20,113	20,534	20,958	21,385	21,815	22,247	22,682	23,121	23,561
Commercial Customers	3,567	3,651	3,736	3,821	3,907	3,993	4,080	4,168	4,256	4,345
Industrial Customers	89	93	97	102	106	111	115	119	124	128
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>23,352</b>	<b>23,858</b>	<b>24,367</b>	<b>24,881</b>	<b>25,398</b>	<b>25,918</b>	<b>26,441</b>	<b>26,969</b>	<b>27,500</b>	<b>28,034</b>

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

Zillah (Toppenish)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.48%	0.72%
Residential Therms	1,102,094	1,109,029	1,116,783	1,131,322	1,133,498	1,140,927	1,148,537	1,159,179	1,162,713	1,169,621
Commercial Therms	2,040,795	2,065,819	2,092,827	2,132,190	2,148,229	2,174,103	2,199,445	2,230,260	2,248,359	2,271,939
Industrial Therms	822,247	821,407	821,375	825,565	822,214	822,214	822,250	823,878	822,214	822,214
Ind., Inst., & Cmcl. Interup. Therms	70,012	70,384	70,836	71,406	71,637	72,028	72,466	72,873	73,276	73,639
<b>Total Core Therms</b>	<b>4,035,147</b>	<b>4,066,639</b>	<b>4,101,821</b>	<b>4,160,483</b>	<b>4,175,578</b>	<b>4,209,272</b>	<b>4,242,718</b>	<b>4,286,190</b>	<b>4,306,561</b>	<b>4,337,413</b>
Daily Baseoad Therms	2,997	3,043	3,183	3,248	3,359	3,036	3,177	3,240	3,434	3,261
Peak Day Therms	35,752	36,071	36,387	32,426	32,697	37,362	37,657	37,999	38,280	34,018
Therms Per Residential Customer	574	570	567	568	562	559	556	554	549	546
Therms Per Commercial Customer	3,929	3,898	3,869	3,864	3,818	3,788	3,760	3,741	3,701	3,671
Therms Per Industrial Customer	34,260	34,225	32,211	32,375	32,244	32,244	32,085	30,476	30,414	30,414
Residential Customers	1,920	1,944	1,969	1,993	2,018	2,042	2,067	2,092	2,117	2,142
Commercial Customers	519	530	541	552	563	574	585	596	607	619
Industrial Customers	24	24	26	26	26	26	26	27	27	27
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>2,464</b>	<b>2,499</b>	<b>2,536</b>	<b>2,571</b>	<b>2,607</b>	<b>2,643</b>	<b>2,679</b>	<b>2,716</b>	<b>2,752</b>	<b>2,789</b>

Zone 10	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,480,716	3,513,052	3,546,651	3,597,742	3,615,357	3,647,552	3,679,506	3,723,097	3,741,166	3,770,733
Commercial Therms	6,735,245	6,984,249	7,235,239	7,516,079	7,734,515	7,975,442	8,211,655	8,460,055	8,667,407	8,887,346
Industrial Therms	1,808,836	1,816,386	1,824,962	1,841,556	1,843,110	1,851,370	1,859,505	1,872,046	1,875,089	1,882,621
Ind., Inst., & Cmcl. Interup. Therms	70,012	70,384	70,836	71,406	71,637	72,028	72,466	72,873	73,276	73,639
<b>Total Core Therms</b>	<b>12,094,608</b>	<b>12,384,071</b>	<b>12,617,709</b>	<b>13,026,783</b>	<b>13,264,620</b>	<b>13,546,392</b>	<b>13,823,131</b>	<b>14,128,072</b>	<b>14,356,939</b>	<b>14,614,338</b>
Daily Baseoad Therms	8,577	8,791	7,858	8,189	10,520	9,680	9,918	9,171	10,673	9,475
Peak Day Therms	80,730	82,035	83,325	76,567	77,632	87,277	88,485	89,857	91,006	82,796
Therms Per Residential Customer	649	644	640	638	631	627	622	619	613	608
Therms Per Commercial Customer	4,850	4,917	4,982	5,069	5,110	5,162	5,201	5,251	5,277	5,307
Therms Per Industrial Customer	31,187	31,250	29,916	30,188	30,213	30,349	29,977	29,210	29,258	29,375
Residential Customers	5,361	5,453	5,544	5,636	5,729	5,822	5,916	6,010	6,105	6,201
Commercial Customers	1,389	1,421	1,452	1,483	1,514	1,545	1,579	1,611	1,643	1,675
Industrial Customers	58	58	61	61	61	61	62	64	64	64
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>6,809</b>	<b>6,932</b>	<b>7,058</b>	<b>7,181</b>	<b>7,305</b>	<b>7,429</b>	<b>7,558</b>	<b>7,687</b>	<b>7,812</b>	<b>7,940</b>

**Appendix B  
Demand Forecast  
High Scenario**

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

Zone 20	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	18,322,751	18,754,137	19,159,148	19,669,398	19,976,012	20,390,566	20,789,885	21,203,392	21,602,072	22,001,731
Commercial Therms	20,644,283	21,015,548	21,364,877	21,819,082	22,071,987	22,428,959	22,781,402	23,232,002	23,483,112	23,834,183
Industrial Therms	1,027,808	1,037,297	1,046,486	1,060,349	1,066,220	1,076,225	1,086,401	1,100,833	1,106,757	1,117,164
Ind., Inst., & Cmcl. Interup. Therms	304,900	304,864	304,864	306,174	304,900	304,901	304,901	305,100	304,900	304,901
<b>Total Core Therms</b>	40,299,742	41,111,846	41,875,374	42,855,003	43,419,119	44,200,651	44,971,590	45,942,326	46,496,842	47,257,979
Daily BaseLoad Therms	35,138	35,705	35,753	36,350	37,683	38,291	38,871	39,807	39,865	39,884
Peak Day Therms	324,597	330,678	336,365	335,607	341,243	354,397	360,166	366,658	372,375	370,104
Therms Per Residential Customer	580	566	552	543	528	517	506	498	486	477
Therms Per Commercial Customer	4,572	4,502	4,433	4,388	4,305	4,245	4,186	4,148	4,077	4,025
Therms Per Industrial Customer	25,068	25,300	24,623	24,949	25,088	25,323	25,562	25,902	25,118	25,354
Residential Customers	31,613	33,140	34,680	36,247	37,836	39,450	41,083	42,739	44,414	46,109
Commercial Customers	4,515	4,668	4,819	4,972	5,127	5,284	5,443	5,601	5,761	5,921
Industrial Customers	41	41	43	43	43	43	43	43	44	44
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	36,171	37,851	39,544	41,264	43,008	44,778	46,570	48,385	50,221	52,076

Zone 24	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,704,104	4,750,389	4,797,330	4,870,279	4,892,117	4,938,738	4,985,155	5,055,806	5,077,893	5,123,912
Commercial Therms	4,410,343	4,462,090	4,514,545	4,590,714	4,620,535	4,673,039	4,725,570	4,800,439	4,830,908	4,883,483
Industrial Therms	653,041	667,824	682,656	699,828	712,774	728,405	744,494	762,606	777,624	794,633
Ind., Inst., & Cmcl. Interup. Therms	959,466	959,332	959,333	964,183	959,466	959,467	959,469	963,912	959,466	959,467
<b>Total Core Therms</b>	10,726,954	10,839,635	10,953,865	11,125,004	11,184,893	11,299,650	11,414,687	11,582,764	11,645,891	11,761,995
Daily BaseLoad Therms	6,260	6,329	6,409	6,503	6,546	6,606	6,672	6,734	6,800	6,929
Peak Day Therms	88,272	89,160	90,047	89,136	90,002	92,869	93,755	94,808	95,695	94,496
Therms Per Residential Customer	638	634	630	630	623	620	616	610	607	607
Therms Per Commercial Customer	2,980	2,941	2,942	2,942	2,910	2,894	2,877	2,874	2,846	2,832
Therms Per Industrial Customer	24,566	24,211	23,558	23,319	22,949	22,584	22,070	21,983	21,640	21,364
Residential Customers	7,374	7,492	7,610	7,728	7,847	7,967	8,086	8,206	8,326	8,447
Commercial Customers	1,480	1,507	1,534	1,561	1,588	1,615	1,643	1,670	1,697	1,725
Industrial Customers	27	28	29	30	31	32	34	35	36	37
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	8,882	9,027	9,174	9,320	9,467	9,615	9,764	9,912	10,060	10,210

Zone 26	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,724,535	1,776,873	1,829,867	1,891,125	1,936,877	1,989,913	2,042,947	2,102,651	2,149,192	2,202,220
Commercial Therms	6,044,434	6,121,105	6,200,041	6,304,059	6,340,779	6,439,801	6,518,827	6,616,657	6,677,203	6,732,250
Industrial Therms	932,887	959,022	985,757	1,016,928	1,040,050	1,066,845	1,093,644	1,123,068	1,147,294	1,174,104
Ind., Inst., & Cmcl. Interup. Therms	93,191	93,148	93,141	93,494	93,190	93,160	93,195	93,453	93,163	93,145
<b>Total Core Therms</b>	8,795,047	8,950,148	9,108,807	9,305,606	9,430,836	9,589,718	9,748,613	9,935,830	10,066,852	10,225,725
Daily BaseLoad Therms	8,097	8,238	8,277	8,656	9,006	8,933	8,976	6,941	8,421	7,388
Peak Day Therms	77,628	78,954	80,280	77,858	79,103	84,374	85,698	87,147	88,471	85,448
Therms Per Residential Customer	550	541	533	527	517	510	503	497	489	483
Therms Per Commercial Customer	4,810	4,747	4,688	4,648	4,576	4,521	4,468	4,431	4,366	4,317
Therms Per Industrial Customer	28,413	28,879	28,496	28,341	28,670	28,273	27,980	28,432	27,965	27,665
Residential Customers	3,134	3,284	3,435	3,590	3,746	3,905	4,065	4,228	4,393	4,561
Commercial Customers	1,257	1,289	1,323	1,356	1,390	1,424	1,459	1,493	1,529	1,565
Industrial Customers	33	33	35	36	36	38	39	40	41	42
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	4,425	4,607	4,793	4,983	5,173	5,368	5,564	5,762	5,965	6,169

Zone 30-S	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	27,148,466	27,560,398	27,975,281	28,518,196	28,810,108	29,225,106	29,640,106	30,180,462	30,471,776	30,886,791
Commercial Therms	16,473,021	16,704,277	16,936,585	17,241,977	17,404,745	17,637,050	17,869,422	18,171,143	18,335,124	18,567,583
Industrial Therms	691,206	694,985	698,874	705,730	706,786	710,680	714,575	721,171	722,381	726,279
Ind., Inst., & Cmcl. Interup. Therms	1,757,447	1,759,943	1,760,012	1,766,917	1,760,150	1,760,150	1,760,149	1,766,645	1,760,150	1,760,150
<b>Total Core Therms</b>	46,070,140	46,719,603	47,370,751	48,232,820	48,681,788	49,332,986	49,984,253	50,839,421	51,289,432	51,940,803
Daily BaseLoad Therms	40,608	41,195	40,666	41,292	42,784	43,332	43,917	43,428	44,749	44,545
Peak Day Therms	353,208	358,233	363,255	362,812	367,766	378,633	383,652	388,996	394,016	392,824
Therms Per Residential Customer	717	711	705	702	693	688	682	679	671	666
Therms Per Commercial Customer	4,229	4,193	4,160	4,145	4,096	4,064	4,034	4,018	3,974	3,945
Therms Per Industrial Customer	24,686	24,821	24,960	25,205	25,242	25,381	25,521	25,756	25,799	25,939
Residential Customers	37,851	38,767	39,690	40,623	41,561	42,506	43,458	44,419	45,386	46,360
Commercial Customers	3,896	3,984	4,071	4,160	4,249	4,340	4,430	4,522	4,614	4,707
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	41,777	42,780	43,791	44,813	45,841	46,876	47,918	48,971	50,030	51,097

# Appendix B Demand Forecast High Scenario

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

Zone GTN	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	40,812,540	42,067,202	43,321,682	44,818,974	45,844,022	47,101,114	48,358,463	49,864,720	50,878,005	52,136,161
Commercial Therms	23,110,812	23,472,944	23,824,609	24,305,723	24,535,533	24,888,703	25,242,092	25,719,083	25,951,245	26,305,200
Industrial Therms	3,204,237	3,295,654	3,387,716	3,497,166	3,573,362	3,665,801	3,758,267	3,866,756	3,943,466	4,036,630
Ind., Inst., & Cmcl. Interrup. Therms	307,667	307,586	307,586	309,284	307,667	307,667	309,121	307,667	307,667	307,667
<b>Total Core Therms</b>	<b>67,435,256</b>	<b>69,143,386</b>	<b>70,841,592</b>	<b>72,931,146</b>	<b>74,260,584</b>	<b>75,963,295</b>	<b>77,666,499</b>	<b>79,759,681</b>	<b>81,080,384</b>	<b>82,785,958</b>
Daily Baseload Therms	38,796	39,950	40,964	41,906	42,667	43,669	44,893	46,124	47,231	48,009
Peak Day Therms	645,191	661,600	677,980	683,315	699,457	727,397	743,821	760,443	776,880	780,445
Therms Per Residential Customer	806	794	783	776	761	751	741	735	722	713
Therms Per Commercial Customer	3,285	3,258	3,229	3,176	3,126	3,124	3,114	3,114	3,074	3,050
Therms Per Industrial Customer	28,781	28,299	27,944	27,726	27,188	26,756	26,306	26,077	25,638	25,238
Residential Customers	50,620	52,971	55,357	57,786	60,248	62,746	65,280	67,856	70,460	73,101
Commercial Customers	7,036	7,206	7,378	7,552	7,725	7,901	8,080	8,260	8,442	8,624
Industrial Customers	111	116	121	126	131	137	143	148	154	160
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>57,768</b>	<b>60,294</b>	<b>62,857</b>	<b>65,465</b>	<b>68,105</b>	<b>70,785</b>	<b>73,504</b>	<b>76,264</b>	<b>79,057</b>	<b>81,886</b>

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

Zone ME-WA	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	7,350,242	7,458,943	7,557,462	7,692,128	7,753,839	7,852,541	7,947,419	8,073,609	8,129,427	8,217,710
Commercial Therms	6,698,903	6,764,798	6,823,904	6,913,171	6,941,646	7,000,666	7,057,005	7,139,236	7,164,385	7,216,889
Industrial Therms	214,206	221,370	228,023	235,611	241,256	247,927	254,414	261,686	267,012	273,187
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>14,263,372</b>	<b>14,445,131</b>	<b>14,609,589</b>	<b>14,840,910</b>	<b>14,936,742</b>	<b>15,101,134</b>	<b>15,258,838</b>	<b>15,474,532</b>	<b>15,560,824</b>	<b>15,706,986</b>
Daily Baseload Therms	11,719	11,792	11,914	12,136	12,271	12,408	12,458	12,498	12,665	12,832
Peak Day Therms	163,658	165,870	167,848	167,282	169,203	173,688	175,585	177,370	179,177	178,302
Therms Per Residential Customer	623	617	610	607	597	592	586	582	574	568
Therms Per Commercial Customer	5,043	4,980	4,918	4,878	4,797	4,740	4,683	4,646	4,573	4,519
Therms Per Industrial Customer	11,274	11,500	11,120	11,279	10,941	10,708	10,368	10,410	10,410	10,159
Residential Customers	11,804	12,097	12,388	12,682	12,977	13,275	13,574	13,874	14,175	14,477
Commercial Customers	1,328	1,358	1,388	1,417	1,447	1,477	1,507	1,537	1,567	1,597
Industrial Customers	19	19	21	21	22	24	24	25	26	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,151</b>	<b>13,475</b>	<b>13,796</b>	<b>14,120</b>	<b>14,446</b>	<b>14,776</b>	<b>15,104</b>	<b>15,436</b>	<b>15,767</b>	<b>16,101</b>

Oregon	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.37%	1.81%
Residential Therms	51,982,204	53,378,662	54,777,020	56,480,591	57,590,066	58,990,737	60,391,540	62,099,065	63,198,410	64,599,479
Commercial Therms	34,628,274	35,123,318	35,610,090	36,286,079	36,594,273	37,082,604	37,571,230	38,238,501	38,551,575	39,040,715
Industrial Therms	5,303,200	5,415,825	5,529,234	5,668,066	5,758,079	5,872,647	5,987,711	6,126,329	6,219,136	6,335,186
Ind., Inst., & Cmcl. Interrup. Therms	2,716,188	2,715,623	2,715,625	2,728,415	2,716,188	2,716,191	2,716,193	2,727,280	2,716,189	2,716,191
<b>Total Core Therms</b>	<b>94,629,867</b>	<b>96,633,428</b>	<b>98,631,970</b>	<b>101,163,150</b>	<b>102,458,466</b>	<b>104,662,179</b>	<b>106,666,674</b>	<b>109,191,175</b>	<b>110,685,309</b>	<b>112,691,571</b>
Daily Baseload Therms	60,030	61,410	62,603	63,788	64,737	65,955	67,412	68,810	70,251	71,715
Peak Day Therms	876,319	895,197	914,044	916,687	935,230	971,286	990,172	1,009,702	1,028,603	1,028,649
Therms Per Residential Customer	749	740	731	726	713	705	697	693	682	674
Therms Per Commercial Customer	3,326	3,299	3,272	3,263	3,221	3,197	3,172	3,162	3,124	3,101
Therms Per Industrial Customer	32,304	31,595	31,056	30,809	30,254	29,531	29,012	28,794	28,328	27,644
Residential Customers	69,393	72,164	74,975	77,832	80,726	83,659	86,630	89,647	92,695	95,784
Commercial Customers	10,413	10,646	10,883	11,121	11,360	11,601	11,846	12,092	12,339	12,588
Industrial Customers	164	171	178	184	190	199	206	213	220	229
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	<b>79,974</b>	<b>82,986</b>	<b>86,040</b>	<b>89,141</b>	<b>92,281</b>	<b>95,462</b>	<b>98,687</b>	<b>101</b>		

**Appendix B  
Demand Forecast  
High Scenario**

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

**Appendix B  
Demand Forecast  
High Scenario**

7th Day School	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Total Thrms Pct. Growth</b>	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Thrms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Thrms	10,161	10,232	10,159	10,161	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Thrms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,378</b>	<b>30,562</b>
Daily BaseLoad Thrms	7	6	6	6	7	6	6	6	6	6
Peak Day Thrms	234	233	233	233	233	234	233	233	233	234
Thrms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Thrms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Thrms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Acme</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
<b>Total Thrms Pct. Growth</b>	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Thrms	56,697	57,164	57,169	57,411	57,665	58,147	58,166	58,420	58,668	59,164
Commercial Thrms	31,823	31,950	31,818	31,818	31,823	31,950	31,823	31,823	31,818	31,946
Industrial Thrms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>88,520</b>	<b>89,114</b>	<b>88,987</b>	<b>89,230</b>	<b>89,488</b>	<b>90,097</b>	<b>89,989</b>	<b>90,242</b>	<b>90,486</b>	<b>91,110</b>
Daily BaseLoad Thrms	60	60	61	61	61	61	61	61	62	62
Peak Day Thrms	807	822	824	826	828	838	838	838	838	841
Thrms Per Residential Customer	796	805	788	792	795	802	802	789	792	799
Thrms Per Commercial Customer	3,536	3,550	3,535	3,535	3,536	3,550	3,536	3,536	3,535	3,550
Thrms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	71	71	73	73	73	73	73	74	74	74
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>80</b>	<b>80</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>83</b>	<b>83</b>	<b>83</b>
<b>Arlington</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
<b>Total Thrms Pct. Growth</b>	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Thrms	3,632,038	3,667,725	3,671,240	3,690,978	3,711,383	3,746,640	3,750,011	3,749,186	3,787,445	3,822,759
Commercial Thrms	2,559,437	2,608,872	2,636,207	2,674,337	2,712,745	2,761,315	2,787,394	2,824,437	2,860,719	2,909,365
Industrial Thrms	527,880	537,365	542,783	550,393	558,063	567,773	572,949	580,342	587,576	597,299
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>6,718,955</b>	<b>6,813,961</b>	<b>6,850,230</b>	<b>6,915,708</b>	<b>6,982,191</b>	<b>7,075,727</b>	<b>7,110,354</b>	<b>7,173,965</b>	<b>7,235,740</b>	<b>7,329,422</b>
Daily BaseLoad Thrms	6,210	6,318	6,435	6,505	6,579	6,530	6,597	6,718	6,836	6,894
Peak Day Thrms	51,895	53,993	54,498	54,999	55,494	54,376	56,501	56,986	57,470	57,983
Thrms Per Residential Customer	675	675	669	663	663	663	657	654	651	651
Thrms Per Commercial Customer	3,039	3,020	2,976	2,946	2,918	2,899	2,859	2,831	2,803	2,788
Thrms Per Industrial Customer	20,267	20,647	22,082	22,391	22,703	23,098	23,309	23,055	23,367	23,787
Residential Customers	5,379	5,433	5,487	5,541	5,595	5,650	5,704	5,759	5,814	5,869
Commercial Customers	842	864	886	908	930	952	975	998	1,021	1,044
Industrial Customers	26	26	25	25	25	25	25	23	23	23
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6,247</b>	<b>6,323</b>	<b>6,397</b>	<b>6,473</b>	<b>6,549</b>	<b>6,627</b>	<b>6,704</b>	<b>6,780</b>	<b>6,858</b>	<b>6,936</b>
<b>Athens</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
<b>Total Thrms Pct. Growth</b>	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Thrms	353,440	358,242	360,356	363,899	367,743	372,353	374,638	378,247	381,530	386,377
Commercial Thrms	148,959	150,780	151,382	152,637	154,026	155,777	156,463	157,743	158,881	160,720
Industrial Thrms	91,638	97,822	103,226	109,066	115,002	121,196	126,585	132,411	138,136	144,548
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>594,036</b>	<b>606,844</b>	<b>614,964</b>	<b>625,603</b>	<b>636,770</b>	<b>649,327</b>	<b>657,686</b>	<b>668,401</b>	<b>678,548</b>	<b>691,445</b>
Daily BaseLoad Thrms	203	218	233	195	239	216	219	235	250	205
Peak Day Thrms	4,313	4,933	5,023	5,112	5,202	4,749	5,398	5,488	5,577	5,684
Thrms Per Residential Customer	544	542	535	530	526	523	517	513	509	506
Thrms Per Commercial Customer	1,873	1,862	1,836	1,827	1,817	1,809	1,786	1,770	1,751	1,750
Thrms Per Industrial Customer	13,453	14,361	12,124	11,570	12,200	12,857	10,962	10,765	11,230	11,751
Residential Customers	649	661	674	687	699	712	724	737	750	763
Commercial Customers	80	81	82	84	85	86	88	89	91	92
Industrial Customers	7	7	9	9	9	9	12	12	12	12
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>736</b>	<b>749</b>	<b>765</b>	<b>780</b>	<b>793</b>	<b>807</b>	<b>824</b>	<b>839</b>	<b>853</b>	<b>867</b>
<b>Baker</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
<b>Total Thrms Pct. Growth</b>	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Thrms	2,587,406	2,618,077	2,622,006	2,639,306	2,656,912	2,687,191	2,690,636	2,707,137	2,722,802	2,752,813
Commercial Thrms	1,829,545	1,854,323	1,860,627	1,876,339	1,892,502	1,917,587	1,924,027	1,939,747	1,955,000	1,980,386
Industrial Thrms	271,884	286,429	299,395	313,629	328,582	344,836	359,251	375,177	391,436	409,103
Ind., Inst., & Cmcl. Interrup. Thrms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thrms</b>	<b>4,688,834</b>	<b>4,758,829</b>	<b>4,782,027</b>	<b>4,829,274</b>	<b>4,877,995</b>	<b>4,949,614</b>	<b>4,973,914</b>	<b>5,022,060</b>	<b>5,069,238</b>	<b>5,142,302</b>
Daily BaseLoad Thrms	2,590	2,637	2,680	2,722	2,783	2,811	2,855	2,901	2,948	3,017
Peak Day Thrms	43,799	45,307	45,689	46,071	46,453	45,683	47,233	47,614	47,995	48,394
Thrms Per Residential Customer	677	678	671	669	666	667	662	659	657	658
Thrms Per Commercial Customer	3,108	3,113	3,088	3,077	3,070	3,076	3,052	3,044	3,035	3,040
Thrms Per Industrial Customer	90,628	95,476	99,798	104,543	109,527	114,945	119,750	125,059	130,479	136,368
Residential Customers	3,823	3,864	3,905	3,946	3,987	4,027	4,067	4,107	4,146	4,185
Commercial Customers	589	596	602	610	616	623	630	637	644	651
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,414</b>	<b>4,463</b>	<b>4,511</b>	<b>4,559</b>	<b>4,606</b>	<b>4,653</b>	<b>4,700</b>	<b>4,747</b>	<b>4,793</b>	<b>4,840</b>

**Appendix B  
Demand Forecast  
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Bend Loop</b>										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.59%	1.42%	1.90%	1.85%	2.36%
Residential Therms	37,614,722	38,729,622	39,441,343	40,355,159	41,273,745	42,408,274	43,104,144	44,021,045	44,931,336	46,085,860
Commercial Therms	15,464,620	15,761,045	15,897,018	16,113,784	16,332,468	16,633,925	16,767,671	16,985,039	17,200,714	17,507,303
Industrial Therms	1,047,492	1,079,695	1,103,089	1,130,954	1,158,997	1,191,783	1,215,050	1,243,136	1,271,156	1,304,651
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>54,126,634</b>	<b>55,570,362</b>	<b>56,441,450</b>	<b>57,599,897</b>	<b>58,765,210</b>	<b>60,233,982</b>	<b>61,088,865</b>	<b>62,249,240</b>	<b>63,403,206</b>	<b>64,897,814</b>
Daily Baseload Therms	27,549	28,358	29,167	29,842	30,517	30,900	31,568	32,392	33,222	33,904
Peak Day Therms	520,944	538,256	549,478	560,700	571,923	576,702	594,526	605,762	617,000	628,396
Therms Per Residential Customer	704	699	688	681	674	670	660	653	647	644
Therms Per Commercial Customer	2,851	2,845	2,810	2,791	2,772	2,768	2,736	2,718	2,700	2,696
Therms Per Industrial Customer	15,249	14,854	14,370	13,977	13,612	13,298	12,926	12,626	12,322	12,128
Residential Customers	53,450	55,377	57,323	59,291	61,281	63,298	65,334	67,390	69,469	71,575
Commercial Customers	5,425	5,540	5,656	5,773	5,891	6,010	6,130	6,250	6,371	6,494
Industrial Customers	69	73	77	81	85	90	94	98	103	108
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>58,943</b>	<b>60,990</b>	<b>63,056</b>	<b>65,145</b>	<b>67,257</b>	<b>69,398</b>	<b>71,557</b>	<b>73,739</b>	<b>75,944</b>	<b>78,176</b>
<b>Bremerton (Shelton)</b>										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	28,207,405	28,711,514	28,963,348	29,341,730	29,722,728	30,233,453	30,481,213	30,859,665	31,235,372	31,752,648
Commercial Therms	15,212,854	15,491,416	15,641,381	15,855,853	16,071,757	16,353,837	16,501,681	16,716,190	16,929,189	17,214,747
Industrial Therms	525,638	534,096	538,004	544,195	550,430	558,992	562,839	569,051	575,177	583,843
Ind., Inst., & Cmcl. Interrup. Therms	1,760,149	1,766,917	1,760,014	1,760,014	1,760,149	1,766,917	1,760,150	1,760,014	1,766,914	1,766,781
<b>Total Core Therms</b>	<b>45,706,046</b>	<b>46,506,942</b>	<b>46,902,747</b>	<b>47,501,792</b>	<b>48,105,064</b>	<b>48,913,199</b>	<b>49,305,883</b>	<b>49,905,035</b>	<b>50,499,752</b>	<b>51,318,019</b>
Daily Baseload Therms	39,728	40,261	40,822	41,341	41,907	42,364	42,782	43,346	43,911	44,453
Peak Day Therms	356,595	365,508	370,198	374,886	379,573	380,206	393,854	398,538	403,450	408,450
Therms Per Residential Customer	640	658	650	646	641	640	633	628	624	623
Therms Per Commercial Customer	3,792	3,779	3,736	3,709	3,682	3,672	3,632	3,607	3,582	3,573
Therms Per Industrial Customer	35,043	35,606	35,867	36,280	36,695	37,266	37,523	37,935	38,345	38,923
Residential Customers	42,749	43,642	44,540	45,443	46,352	47,270	48,192	49,118	50,052	50,993
Commercial Customers	4,012	4,099	4,187	4,275	4,365	4,454	4,543	4,635	4,726	4,818
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruption Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>46,778</b>	<b>47,758</b>	<b>48,743</b>	<b>49,735</b>	<b>50,734</b>	<b>51,741</b>	<b>52,752</b>	<b>53,770</b>	<b>54,795</b>	<b>55,828</b>
<b>Brouillette Hop</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,160	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,378</b>	<b>30,562</b>
Daily Baseload Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	234	233	233	233	234	233	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Burbank Heights Loop</b>										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	8,312,985	8,499,619	8,593,406	8,723,854	8,853,227	9,020,370	9,092,367	9,205,813	9,311,498	9,462,696
Commercial Therms	6,141,716	6,275,041	6,342,268	6,437,184	6,532,012	6,655,024	6,710,016	6,795,713	6,876,678	6,991,400
Industrial Therms	306,155	309,557	310,445	312,627	314,897	318,365	319,304	321,528	323,682	327,216
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>14,760,856</b>	<b>15,084,217</b>	<b>15,246,119</b>	<b>15,473,666</b>	<b>15,700,136</b>	<b>15,993,759</b>	<b>16,121,687</b>	<b>16,323,053</b>	<b>16,511,858</b>	<b>16,781,312</b>
Daily Baseload Therms	11,354	11,630	11,781	11,266	11,685	12,308	12,431	12,548	12,657	11,924
Peak Day Therms	90,891	96,145	97,543	98,853	100,128	98,448	103,125	104,257	105,328	106,990
Therms Per Residential Customer	443	436	426	417	410	404	394	387	379	374
Therms Per Commercial Customer	3,716	3,695	3,641	3,605	3,573	3,558	3,508	3,478	3,448	3,437
Therms Per Industrial Customer	23,550	23,812	23,880	24,048	24,223	24,490	24,562	24,733	24,899	25,170
Residential Customers	18,776	19,480	20,189	20,901	21,619	22,344	23,072	23,805	24,542	25,286
Commercial Customers	1,653	1,698	1,742	1,785	1,828	1,871	1,913	1,954	1,995	2,034
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>20,442</b>	<b>21,191</b>	<b>21,944</b>	<b>22,699</b>	<b>23,460</b>	<b>24,227</b>	<b>24,998</b>	<b>25,772</b>	<b>26,550</b>	<b>27,333</b>
<b>Castle Rock</b>										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	41,925	42,594	42,842	43,298	43,751	44,430	44,667	45,125	45,588	46,278
Commercial Therms	146,688	147,206	146,544	146,463	146,365	146,880	146,202	146,119	146,051	146,563
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>188,614</b>	<b>189,799</b>	<b>189,386</b>	<b>189,761</b>	<b>190,116</b>	<b>191,310</b>	<b>190,869</b>	<b>191,244</b>	<b>191,639</b>	<b>192,841</b>
Daily Baseload Therms	256	256	256	256	257	258	257	257	257	258
Peak Day Therms	1,282	1,265	1,268	1,271	1,274	1,297	1,280	1,283	1,286	1,289
Therms Per Residential Customer	373	366	355	347	339	333	325	317	311	306
Therms Per Commercial Customer	3,056	3,067	3,053	3,051	3,049	3,060	3,046	3,044	3,043	3,053
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	112	116	121	125	129	134	138	142	147	151
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruption Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>160</b>	<b>164</b>	<b>169</b>	<b>173</b>	<b>177</b>	<b>182</b>	<b>186</b>	<b>190</b>	<b>195</b>	<b>199</b>

**Appendix B  
Demand Forecast  
High Scenario**

Chemult	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.05%	0.56%	-0.46%	0.04%	0.03%	0.54%	-0.89%	0.02%	0.02%	0.53%
Residential Therms	14,528	14,626	14,581	14,604	14,624	14,713	14,659	14,672	14,685	14,747
Commercial Therms	43,392	43,617	43,393	43,393	43,392	43,617	43,392	43,392	43,393	43,619
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	57,920	58,244	57,974	57,997	58,016	58,331	58,050	58,064	58,078	58,385
Daily Baseload Therms	46	46	46	46	46	46	46	46	46	46
Peak Day Therms	421	419	420	420	420	422	420	420	420	420
Therms Per Residential Customer	528	532	530	531	532	535	533	534	534	537
Therms Per Commercial Customer	2,170	2,181	2,170	2,170	2,170	2,181	2,170	2,170	2,170	2,181
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	28	28	28	28	28	28	28	28	28	28
Commercial Customers	20	20	20	20	20	20	20	20	20	20
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	48	48	48	48	48	48	48	48	48	48
<b>Dehawn Dairy</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%	-0.29%	0.00%	0.00%	0.29%
Residential Therms	4,056	4,068	4,057	4,057	4,056	4,068	4,056	4,056	4,057	4,068
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	4,056	4,068	4,057	4,057	4,056	4,068	4,056	4,056	4,057	4,068
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	12	12	12	12	12	12	12	12	12	12
Therms Per Residential Customer	2,028	2,034	2,028	2,028	2,028	2,034	2,028	2,028	2,028	2,034
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	2	2	2	2	2	2	2	2	2	2
<b>Deming</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.17%	0.65%	-0.41%	0.15%	0.24%	0.66%	-0.31%	0.17%	0.07%	0.64%
Residential Therms	15,421	15,492	15,407	15,407	15,419	15,493	15,421	15,420	15,407	15,478
Commercial Therms	102,348	103,041	102,638	102,817	103,084	103,790	103,495	103,695	103,796	104,482
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	117,769	118,534	118,045	118,225	118,503	119,284	118,915	119,114	119,203	119,960
Daily Baseload Therms	55	55	55	45	57	55	55	56	55	48
Peak Day Therms	1,047	1,149	1,150	1,152	1,153	1,054	1,157	1,158	1,160	1,162
Therms Per Residential Customer	643	646	642	642	642	642	643	642	642	645
Therms Per Commercial Customer	7,873	7,926	7,895	7,909	7,930	7,984	7,961	7,977	7,984	8,037
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	24	24	24	24	24	24	24	24	24	24
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	37	37	37	37	37	37	37	37	37	37
<b>East Stanwood Loop</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.10%	1.51%	0.65%	1.07%	1.07%	1.47%	0.42%	1.02%	1.00%	1.43%
Residential Therms	6,547,004	6,652,960	6,701,452	6,778,820	6,856,839	6,964,124	7,011,923	7,089,306	7,166,009	7,274,608
Commercial Therms	4,189,117	4,253,943	4,283,204	4,330,414	4,378,095	4,443,809	4,472,833	4,520,166	4,567,055	4,633,657
Industrial Therms	496,591	496,892	494,117	492,869	491,658	491,945	489,222	487,974	486,888	486,960
Ind., Inst., & Cmcl. Interup. Therms	87,644	87,940	87,637	87,637	87,644	87,940	87,644	87,644	87,644	87,637
<b>Total Core Therms</b>	11,320,355	11,491,734	11,566,411	11,689,740	11,814,236	11,987,817	12,061,622	12,185,089	12,307,389	12,483,159
Daily Baseload Therms	10,515	10,650	10,794	10,905	11,013	11,045	11,148	11,292	11,439	11,547
Peak Day Therms	84,231	86,310	87,220	88,130	89,039	88,873	90,937	91,847	92,756	93,748
Therms Per Residential Customer	630	629	622	619	615	614	608	605	601	600
Therms Per Commercial Customer	3,415	3,402	3,361	3,335	3,311	3,299	3,261	3,238	3,215	3,205
Therms Per Industrial Customer	165,530	165,631	164,706	164,290	163,886	163,982	163,074	162,658	162,229	162,320
Residential Customers	10,390	10,577	10,766	10,955	11,145	11,337	11,530	11,723	11,918	12,114
Commercial Customers	1,227	1,250	1,274	1,298	1,322	1,347	1,371	1,396	1,421	1,446
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	11,621	11,832	12,044	12,257	12,472	12,688	12,905	13,123	13,343	13,564
<b>Finley</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.18%	1.73%	0.52%	1.11%	1.13%	1.68%	0.48%	1.05%	1.02%	1.64%
Residential Therms	21,237	21,632	21,784	22,061	22,344	22,749	22,903	23,184	23,460	23,876
Commercial Therms	77,598	78,910	79,280	80,127	81,002	82,333	82,685	83,514	84,329	85,687
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	98,835	100,542	101,064	102,188	103,346	105,082	105,588	106,698	107,789	109,562
Daily Baseload Therms	27	26	27	8	17	28	28	29	30	5
Peak Day Therms	745	784	791	798	805	794	826	833	840	855
Therms Per Residential Customer	472	463	453	444	437	429	418	411	403	399
Therms Per Commercial Customer	5,969	6,070	6,098	6,164	6,231	6,333	6,360	6,424	6,487	6,591
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	45	47	48	50	51	53	55	56	58	60
Commercial Customers	13	13	13	13	13	13	13	13	13	13
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	58	60	61	63	64	66	68	69	71	73



**Appendix B  
Demand Forecast  
High Scenario**

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



**Appendix B  
Demand Forecast  
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>LDS Church</b>										
Total Therms Pct. Growth	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%
Residential Therms	5,589	5,614	5,589	5,589	5,589	5,614	5,589	5,589	5,589	5,614
Commercial Therms	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	11,008	11,062	11,008	11,008	11,008	11,062	11,008	11,008	11,008	11,062
Daily Baseload Therms	10	10	10	10	10	10	10	10	10	10
Peak Day Therms	63	63	63	63	63	63	63	63	63	63
Therms Per Residential Customer	1,397	1,404	1,397	1,397	1,397	1,404	1,397	1,397	1,397	1,404
Therms Per Commercial Customer	5,419	5,448	5,419	5,419	5,419	5,448	5,419	5,419	5,419	5,448
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5	5	5	5	5	5	5	5	5	5
<b>Longview South Loop</b>										
Total Therms Pct. Growth	1.26%	1.61%	0.85%	1.22%	1.23%	1.55%	0.83%	1.16%	1.12%	1.49%
Residential Therms	1,539,964	1,578,247	1,604,732	1,637,240	1,670,215	1,708,938	1,735,390	1,767,882	1,799,851	1,838,990
Commercial Therms	5,352,961	5,432,631	5,473,120	5,533,791	5,596,035	5,676,549	5,717,732	5,778,437	5,837,502	5,918,626
Industrial Therms	169,191	165,802	161,370	157,508	153,697	150,280	145,960	142,120	138,247	134,807
Ind., Inst., & Cmcl. Interup. Therms	93,133	93,541	93,147	93,139	93,167	93,481	93,193	93,150	93,150	93,481
<b>Total Core Therms</b>	7,155,249	7,270,222	7,332,368	7,421,678	7,513,115	7,629,248	7,692,238	7,781,632	7,868,750	7,966,104
Daily Baseload Therms	6,116	6,177	6,246	6,301	6,301	6,522	6,581	6,545	6,615	6,615
Peak Day Therms	68,457	71,458	72,298	73,137	73,975	72,805	75,794	76,631	77,467	78,453
Therms Per Residential Customer	501	496	488	483	477	473	466	461	456	453
Therms Per Commercial Customer	4,639	4,614	4,559	4,521	4,484	4,464	4,413	4,379	4,344	4,325
Therms Per Industrial Customer	13,015	12,754	12,413	12,116	11,823	11,560	11,228	10,932	10,634	10,370
Residential Customers	3,075	3,180	3,285	3,392	3,501	3,610	3,720	3,832	3,944	4,058
Commercial Customers	1,154	1,177	1,201	1,224	1,248	1,272	1,296	1,320	1,344	1,369
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	4,243	4,371	4,500	4,631	4,763	4,896	5,030	5,165	5,302	5,440
<b>Madras</b>										
Total Therms Pct. Growth	0.95%	1.47%	0.37%	0.91%	0.93%	1.42%	0.35%	0.87%	0.83%	1.39%
Residential Therms	866,720	882,865	889,337	900,705	912,310	928,556	934,846	946,046	956,999	973,426
Commercial Therms	1,435,430	1,455,814	1,461,089	1,474,043	1,487,388	1,507,873	1,513,077	1,525,840	1,538,199	1,558,875
Industrial Therms	1,065,156	1,080,959	1,084,737	1,094,626	1,104,802	1,120,698	1,124,393	1,134,137	1,143,584	1,159,641
Ind., Inst., & Cmcl. Interup. Therms	307,667	309,284	307,586	307,586	307,667	309,284	307,667	307,667	307,586	309,203
<b>Total Core Therms</b>	3,674,973	3,728,922	3,742,749	3,776,960	3,812,167	3,866,411	3,879,983	3,913,691	3,946,368	4,001,145
Daily Baseload Therms	1,810	1,846	1,885	1,905	1,925	1,901	1,920	1,960	2,000	2,017
Peak Day Therms	30,781	32,036	32,340	32,643	32,946	32,228	33,535	33,833	34,131	34,419
Therms Per Residential Customer	475	470	460	454	447	443	435	429	423	420
Therms Per Commercial Customer	3,542	3,570	3,559	3,574	3,580	3,613	3,601	3,614	3,621	3,648
Therms Per Industrial Customer	59,175	60,053	60,263	60,813	61,378	62,261	62,466	63,008	63,532	64,425
Residential Customers	1,826	1,879	1,932	1,986	2,040	2,095	2,150	2,206	2,262	2,319
Commercial Customers	405	408	411	412	416	417	420	422	425	427
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	2,250	2,306	2,361	2,417	2,475	2,531	2,590	2,647	2,706	2,765
<b>McCleary (Aberdeen/Hoquiam)</b>										
Total Therms Pct. Growth	0.74%	1.17%	0.31%	0.75%	0.78%	1.15%	0.32%	0.73%	0.69%	1.13%
Residential Therms	2,094,414	2,144,668	2,166,643	2,203,252	2,240,890	2,291,792	2,314,245	2,350,852	2,386,342	2,437,885
Commercial Therms	3,587,124	3,619,094	3,621,661	3,639,561	3,658,727	3,691,138	3,694,623	3,712,543	3,729,176	3,761,848
Industrial Therms	204,543	202,981	199,883	197,597	195,377	193,785	190,793	188,510	186,164	184,547
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	6,886,081	6,966,743	6,988,226	7,040,411	7,094,993	7,176,715	7,199,662	7,251,904	7,301,682	7,384,279
Daily Baseload Therms	6,359	6,431	6,458	6,533	6,138	6,596	6,625	6,651	6,677	6,710
Peak Day Therms	41,193	43,896	44,224	44,551	44,877	42,998	45,660	45,986	46,312	46,771
Therms Per Residential Customer	674	671	662	657	651	649	641	636	630	628
Therms Per Commercial Customer	4,549	4,550	4,511	4,495	4,478	4,481	4,444	4,428	4,410	4,411
Therms Per Industrial Customer	15,734	15,614	15,376	15,200	15,029	14,907	14,676	14,501	14,320	14,196
Residential Customers	4,590	4,686	4,782	4,879	4,976	5,075	5,173	5,273	5,372	5,473
Commercial Customers	788	795	803	810	817	824	831	838	846	853
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	5,392	5,494	5,598	5,701	5,806	5,911	6,018	6,124	6,231	6,339
<b>Milton-Freewater</b>										
Total Therms Pct. Growth	1.13%	1.61%	0.58%	1.09%	1.12%	1.57%	0.57%	1.05%	1.00%	1.52%
Residential Therms	128,814	130,828	131,374	132,668	134,006	136,049	136,611	137,905	139,153	141,223
Commercial Therms	385,843	392,979	396,330	401,630	407,085	414,319	417,723	423,026	428,167	435,496
Industrial Therms	13,209	12,577	11,806	11,106	10,409	9,762	9,010	8,309	7,606	6,945
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	527,865	536,385	539,511	545,404	551,499	560,131	563,343	569,241	574,926	583,664
Daily Baseload Therms	451	454	455	444	465	480	485	487	487	481
Peak Day Therms	5,839	6,101	6,169	6,236	6,303	6,167	6,439	6,506	6,573	6,642
Therms Per Residential Customer	388	384	376	370	365	362	354	349	344	342
Therms Per Commercial Customer	2,788	2,775	2,735	2,709	2,686	2,674	2,638	2,615	2,592	2,582
Therms Per Industrial Customer	3,108	2,959	2,778	2,613	2,449	2,297	2,120	1,955	1,790	1,634
Residential Customers	332	341	349	358	367	376	386	395	404	413
Commercial Customers	138	142	145	148	152	155	158	162	165	169
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	474	487	498	511	523	535	548	561	573	586

Appendix B  
Demand Forecast  
High Scenario

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

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

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

North Bend	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	3.11%	3.63%	2.26%	2.88%	2.85%	3.35%	1.99%	2.55%	2.45%	3.15%
Residential Therms	7,597	7,843	8,026	8,248	8,476	8,754	8,916	9,140	9,342	9,645
Commercial Therms	293,250	304,235	311,458	320,756	330,211	341,567	348,657	357,819	366,852	378,688
Industrial Therms	10,894	10,941	10,887	10,887	10,893	10,963	10,890	10,892	10,887	10,956
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>311,741</b>	<b>323,059</b>	<b>330,371</b>	<b>339,892</b>	<b>349,581</b>	<b>361,284</b>	<b>368,462</b>	<b>377,850</b>	<b>387,101</b>	<b>399,309</b>
Daily Baseload Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	5,062	5,362	5,529	5,696	5,863	5,869	6,193	6,361	6,529	6,692
Therms Per Residential Customer	1,899	1,966	2,006	2,062	2,119	2,229	2,285	2,341	2,341	2,416
Therms Per Commercial Customer	1,782	1,758	1,708	1,675	1,647	1,627	1,586	1,559	1,536	1,521
Therms Per Industrial Customer	5,447	5,480	5,443	5,443	5,447	5,482	5,445	5,446	5,443	5,478
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	165	173	182	192	200	210	220	230	239	249
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>171</b>	<b>179</b>	<b>188</b>	<b>198</b>	<b>206</b>	<b>216</b>	<b>226</b>	<b>236</b>	<b>245</b>	<b>255</b>

Nyssa-Ontario	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,499,329	2,539,408	2,552,255	2,578,800	2,605,706	2,646,348	2,658,985	2,685,537	2,711,714	2,752,912
Commercial Therms	3,064,650	3,116,079	3,135,797	3,171,489	3,207,612	3,259,789	3,279,186	3,314,888	3,350,142	3,403,038
Industrial Therms	539,626	545,413	548,173	552,439	556,805	562,632	565,456	569,753	573,944	579,774
Ind., Inst., & Cmcl. Interup. Therms	959,469	964,181	959,330	959,332	959,469	964,183	959,466	959,467	959,333	964,048
<b>Total Core Therms</b>	<b>7,063,074</b>	<b>7,165,084</b>	<b>7,195,555</b>	<b>7,262,060</b>	<b>7,329,591</b>	<b>7,432,953</b>	<b>7,463,093</b>	<b>7,529,646</b>	<b>7,595,133</b>	<b>7,699,772</b>
Daily Baseload Therms	4,344	4,362	4,390	4,436	4,489	4,503	4,527	4,550	4,578	4,619
Peak Day Therms	50,189	51,792	52,267	52,742	53,216	52,826	54,321	54,794	55,267	55,902
Therms Per Residential Customer	546	546	540	537	534	534	528	525	522	522
Therms Per Commercial Customer	2,700	2,699	2,671	2,657	2,643	2,642	2,615	2,603	2,588	2,588
Therms Per Industrial Customer	15,092	14,836	14,398	14,075	13,570	13,416	13,057	12,749	12,370	12,206
Residential Customers	4,577	4,652	4,728	4,805	4,881	4,959	5,037	5,115	5,193	5,272
Commercial Customers	1,135	1,155	1,174	1,194	1,214	1,234	1,254	1,274	1,294	1,315
Industrial Customers	36	37	38	39	41	42	43	45	46	47
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,748</b>	<b>5,844</b>	<b>5,941</b>	<b>6,039</b>	<b>6,137</b>	<b>6,235</b>	<b>6,335</b>	<b>6,434</b>	<b>6,534</b>	<b>6,635</b>

Appendix B  
Demand Forecast  
High Scenario

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Othello</b>										
Total Therms Pct. Growth	0.67%	1.04%	0.36%	0.64%	0.69%	1.02%	0.36%	0.68%	0.69%	1.09%
Residential Therms	673,107	677,546	675,673	677,178	676,593	683,087	681,404	682,820	684,256	688,909
Commercial Therms	1,600,135	1,621,249	1,633,564	1,649,085	1,665,947	1,687,316	1,699,843	1,716,797	1,734,147	1,757,895
Industrial Therms	221,902	222,862	221,903	221,903	221,902	222,862	221,903	221,903	221,902	222,862
Ind., Inst., & Cncl. Interup. Therms	90,373	90,702	90,372	90,372	90,373	90,702	90,372	90,372	90,372	90,701
<b>Total Core Therms</b>	<b>2,585,517</b>	<b>2,612,379</b>	<b>2,621,712</b>	<b>2,638,537</b>	<b>2,656,814</b>	<b>2,683,937</b>	<b>2,693,522</b>	<b>2,711,892</b>	<b>2,730,678</b>	<b>2,760,367</b>
Daily Baseload Therms	1,958	1,979	1,996	2,010	2,024	2,044	2,061	2,077	2,094	2,116
Peak Day Therms	13,762	13,852	13,929	13,999	14,074	14,109	14,216	14,292	14,370	14,442
Therms Per Residential Customer	569	569	563	561	558	558	553	550	548	548
Therms Per Commercial Customer	4,246	4,221	4,170	4,135	4,097	4,071	4,029	3,995	3,963	3,949
Therms Per Industrial Customer	24,656	24,762	24,656	24,656	24,656	24,762	24,656	24,656	24,656	24,762
Residential Customers	1,183	1,192	1,200	1,208	1,216	1,224	1,233	1,241	1,249	1,258
Commercial Customers	377	384	392	399	407	414	422	430	438	445
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,570</b>	<b>1,586</b>	<b>1,601</b>	<b>1,617</b>	<b>1,633</b>	<b>1,649</b>	<b>1,665</b>	<b>1,681</b>	<b>1,697</b>	<b>1,713</b>
<b>Patterson</b>										
Total Therms Pct. Growth	0.00%	0.14%	-0.19%	0.00%	0.06%	0.14%	-0.14%	0.00%	-0.05%	0.14%
Residential Therms	133	142	150	159	167	176	184	193	201	209
Commercial Therms	320,905	321,354	320,732	320,731	320,902	321,354	320,904	320,904	320,732	321,179
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>321,037</b>	<b>321,495</b>	<b>320,882</b>	<b>320,889</b>	<b>321,049</b>	<b>321,530</b>	<b>321,088</b>	<b>321,097</b>	<b>320,933</b>	<b>321,388</b>
Daily Baseload Therms	159	159	162	158	154	159	159	159	162	155
Peak Day Therms	209	377	378	380	382	205	379	380	382	378
Therms Per Residential Customer	133	142	150	159	167	176	184	193	201	209
Therms Per Commercial Customer	64,181	64,271	64,146	64,146	64,180	64,271	64,181	64,181	64,146	64,236
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Pendleton</b>										
Total Therms Pct. Growth	0.75%	1.24%	0.24%	0.74%	0.75%	1.22%	0.23%	0.72%	0.70%	1.20%
Residential Therms	3,353,225	3,403,198	3,417,927	3,450,376	3,483,325	3,533,961	3,548,518	3,580,976	3,612,915	3,664,206
Commercial Therms	2,708,920	2,741,471	2,747,493	2,766,897	2,786,702	2,819,621	2,825,670	2,845,079	2,864,076	2,897,359
Industrial Therms	165,795	166,711	165,778	165,787	165,828	166,711	165,786	165,793	165,782	166,724
Ind., Inst., & Cncl. Interup. Therms	705,017	707,723	704,910	704,910	705,017	707,723	705,017	705,017	704,910	707,616
<b>Total Core Therms</b>	<b>6,932,957</b>	<b>7,019,103</b>	<b>7,036,109</b>	<b>7,087,970</b>	<b>7,140,871</b>	<b>7,228,017</b>	<b>7,244,991</b>	<b>7,296,866</b>	<b>7,347,684</b>	<b>7,435,904</b>
Daily Baseload Therms	5,272	5,339	5,386	5,420	5,445	5,491	5,544	5,592	5,640	5,620
Peak Day Therms	70,740	72,356	72,891	73,425	73,960	73,545	75,114	75,648	76,182	76,803
Therms Per Residential Customer	540	539	532	528	524	523	516	512	508	507
Therms Per Commercial Customer	3,022	3,014	2,978	2,956	2,936	2,930	2,895	2,874	2,857	2,851
Therms Per Industrial Customer	27,632	27,785	27,630	27,631	27,638	27,785	27,631	27,632	27,630	27,787
Residential Customers	6,205	6,315	6,427	6,538	6,650	6,763	6,877	6,991	7,105	7,221
Commercial Customers	896	910	923	936	949	962	976	989	1,003	1,016
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>7,109</b>	<b>7,232</b>	<b>7,356</b>	<b>7,481</b>	<b>7,606</b>	<b>7,733</b>	<b>7,860</b>	<b>7,987</b>	<b>8,115</b>	<b>8,244</b>
<b>Plymouth</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	10,856	10,908	10,856	10,856	10,856	10,908	10,856	10,856	10,856	10,908
Commercial Therms	10,161	10,232	10,159	10,160	10,161	10,232	10,159	10,160	10,162	10,233
Industrial Therms	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,377</b>	<b>30,562</b>	<b>30,372</b>	<b>30,375</b>	<b>30,378</b>	<b>30,562</b>
Daily Baseload Therms	7	6	6	6	7	6	6	6	6	6
Peak Day Therms	234	234	233	233	233	234	233	233	233	234
Therms Per Residential Customer	1,357	1,363	1,357	1,357	1,357	1,363	1,357	1,357	1,357	1,364
Therms Per Commercial Customer	2,032	2,046	2,032	2,032	2,032	2,046	2,032	2,032	2,032	2,047
Therms Per Industrial Customer	9,360	9,421	9,358	9,359	9,360	9,422	9,358	9,359	9,360	9,422
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Prineville</b>										
Total Therms Pct. Growth	1.73%	2.27%	1.09%	1.64%	1.64%	2.16%	1.01%	1.54%	1.49%	2.06%
Residential Therms	2,288,097	2,355,973	2,396,680	2,451,064	2,506,075	2,575,131	2,615,129	2,669,503	2,723,159	2,793,365
Commercial Therms	2,122,163	2,161,302	2,176,466	2,203,839	2,231,779	2,271,535	2,286,714	2,314,124	2,340,950	2,381,319
Industrial Therms	452,766	455,969	454,102	454,833	455,672	458,902	457,143	457,882	458,520	461,777
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,863,026</b>	<b>4,973,244</b>	<b>5,027,248</b>	<b>5,109,736</b>	<b>5,193,527</b>	<b>5,305,568</b>	<b>5,358,966</b>	<b>5,441,509</b>	<b>5,522,629</b>	<b>5,636,461</b>
Daily Baseload Therms	3,007	3,033	3,047	3,096	3,183	3,284	3,334	3,345	3,354	3,457
Peak Day Therms	45,833	47,877	48,678	49,478	50,279	49,755	51,891	52,692	53,492	54,304
Therms Per Residential Customer	550	547	537	531	525	522	514	508	503	501
Therms Per Commercial Customer	3,184	3,176	3,133	3,110	3,087	3,081	3,042	3,020	2,999	2,993
Therms Per Industrial Customer	14,149	13,976	13,553	13,575	13,600	13,696	13,644	13,666	13,685	13,782
Residential Customers	4,157	4,308	4,461	4,615	4,771	4,930	5,089	5,251	5,413	5,578
Commercial Customers	666	680	695	709	723	737	752	766	781	796
Industrial Customers	32	33	34	34	34	34	34	34	34	34
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,855</b>	<b>5,021</b>	<b>5,189</b>	<b>5,358</b>	<b>5,528</b>	<b>5,701</b>	<b>5,875</b>	<b>6,051</b>	<b>6,228</b>	<b>6,407</b>



Appendix B  
Demand Forecast  
High Scenario

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

Appendix B  
Demand Forecast  
High Scenario

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Sunnyside</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.79%	1.27%
Residential Therms	1,300,263	1,321,325	1,328,447	1,341,974	1,355,207	1,374,613	1,379,682	1,391,231	1,402,161	1,420,064
Commercial Therms	2,117,924	2,151,910	2,165,554	2,188,396	2,210,744	2,241,879	2,252,109	2,271,610	2,290,064	2,318,618
Industrial Therms	749,715	779,456	783,556	790,210	796,745	805,648	808,825	814,504	819,836	827,942
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	4,187,902	4,252,691	4,277,557	4,320,580	4,362,716	4,422,140	4,440,616	4,477,346	4,512,061	4,566,625
Daily Baseload Therms	3,150	3,183	3,195	3,226	3,277	3,322	3,349	3,366	3,370	3,425
Peak Day Therms	27,724	28,742	29,054	29,336	29,607	29,193	30,165	30,404	30,633	30,966
Therms Per Residential Customer	531	529	522	517	513	510	503	498	492	490
Therms Per Commercial Customer	3,154	3,136	3,095	3,067	3,036	3,016	2,973	2,945	2,913	2,890
Therms Per Industrial Customer	37,881	36,012	36,201	36,509	36,812	34,625	34,762	35,006	35,235	34,959
Residential Customers	2,447	2,496	2,545	2,595	2,644	2,695	2,745	2,796	2,847	2,899
Commercial Customers	672	686	700	714	728	743	758	771	786	802
Industrial Customers	20	22	22	22	22	23	23	23	23	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	3,139	3,203	3,267	3,330	3,394	3,461	3,526	3,591	3,657	3,725
<b>Umatilla</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	596,547	613,968	625,164	639,427	653,669	671,382	682,267	696,529	710,814	728,819
Commercial Therms	608,059	620,770	627,571	637,293	646,995	659,892	666,488	676,209	685,952	699,036
Industrial Therms	1,048,001	1,052,860	1,050,783	1,052,164	1,053,532	1,058,414	1,056,296	1,057,679	1,059,078	1,063,983
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	2,252,607	2,287,599	2,303,518	2,328,884	2,354,196	2,389,688	2,405,050	2,430,417	2,455,843	2,491,838
Daily Baseload Therms	2,633	2,646	2,648	2,689	2,708	2,718	2,738	2,761	2,784	2,793
Peak Day Therms	13,454	13,598	13,778	13,958	14,137	14,401	14,519	14,699	14,878	15,082
Therms Per Residential Customer	401	397	389	384	378	375	368	363	358	356
Therms Per Commercial Customer	3,235	3,223	3,181	3,162	3,132	3,122	3,081	3,061	3,041	3,031
Therms Per Industrial Customer	149,714	150,409	150,112	150,309	150,505	151,202	150,899	151,097	151,297	151,998
Residential Customers	1,486	1,545	1,606	1,667	1,728	1,791	1,855	1,918	1,983	2,049
Commercial Customers	188	193	197	202	207	211	216	221	226	231
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,681	1,745	1,810	1,875	1,942	2,010	2,078	2,146	2,216	2,286
<b>Walla Walla</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	8,302,958	8,422,670	8,440,388	8,533,377	8,605,905	8,713,641	8,738,745	8,801,452	8,859,299	8,957,207
Commercial Therms	7,265,657	7,343,725	7,355,506	7,396,576	7,437,558	7,507,029	7,510,549	7,544,353	7,574,494	7,636,855
Industrial Therms	279,220	286,175	290,658	296,088	301,496	307,898	311,734	316,685	321,407	327,364
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	15,847,835	16,052,569	16,106,552	16,226,041	16,344,960	16,528,568	16,561,028	16,662,490	16,755,201	16,921,426
Daily Baseload Therms	12,952	12,986	13,010	13,099	13,247	13,398	13,492	13,493	13,488	13,614
Peak Day Therms	179,974	184,194	185,740	187,381	188,982	187,110	191,149	192,375	193,529	194,585
Therms Per Residential Customer	562	558	550	544	538	534	526	520	514	511
Therms Per Commercial Customer	4,466	4,433	4,361	4,310	4,260	4,227	4,160	4,112	4,063	4,033
Therms Per Industrial Customer	10,018	9,963	9,594	9,680	9,407	9,432	9,213	8,883	8,939	8,730
Residential Customers	14,780	15,084	15,389	15,692	15,998	16,304	16,610	16,917	17,225	17,534
Commercial Customers	1,627	1,657	1,687	1,716	1,746	1,776	1,805	1,835	1,864	1,894
Industrial Customers	28	29	30	31	32	33	34	36	36	37
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	16,435	16,769	17,106	17,439	17,776	18,112	18,449	18,788	19,125	19,465
<b>Wenatchee</b>										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	680,607	689,412	690,886	696,123	701,590	710,503	712,096	717,236	722,340	731,358
Commercial Therms	4,113,219	4,161,552	4,169,091	4,198,481	4,229,746	4,280,810	4,290,932	4,321,972	4,351,848	4,404,489
Industrial Therms	498,344	512,409	521,994	533,865	545,894	560,160	569,696	581,573	593,278	607,740
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	5,292,170	5,363,373	5,381,972	5,428,469	5,477,230	5,551,474	5,572,723	5,620,881	5,667,466	5,743,587
Daily Baseload Therms	4,833	4,800	4,791	4,838	4,944	5,026	5,076	5,067	5,058	5,143
Peak Day Therms	35,033	37,162	37,451	37,743	38,038	36,572	38,716	39,019	39,324	39,711
Therms Per Residential Customer	412	410	404	401	397	395	390	387	382	382
Therms Per Commercial Customer	5,219	5,215	5,162	5,136	5,112	5,111	5,064	5,041	5,016	5,018
Therms Per Industrial Customer	24,829	24,020	23,986	23,745	23,225	23,832	23,215	22,995	23,457	22,668
Residential Customers	1,652	1,681	1,709	1,738	1,767	1,796	1,826	1,855	1,885	1,915
Commercial Customers	788	798	808	817	827	838	847	857	868	878
Industrial Customers	20	21	22	22	24	24	25	25	25	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	2,460	2,500	2,539	2,578	2,618	2,658	2,698	2,738	2,778	2,819
<b>Woodland</b>										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	673,185	696,458	712,795	732,799	753,340	777,005	793,491	813,545	833,019	857,053
Commercial Therms	1,014,711	1,038,221	1,050,642	1,069,047	1,088,521	1,112,420	1,125,519	1,143,986	1,161,328	1,185,586
Industrial Therms	1,031,732	1,066,534	1,092,407	1,123,059	1,154,598	1,189,868	1,216,114	1,246,811	1,276,529	1,312,222
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	2,719,628	2,801,213	2,855,845	2,924,905	2,996,458	3,079,293	3,135,123	3,204,343	3,270,877	3,354,860
Daily Baseload Therms	3,460	3,301	3,363	3,443	3,512	3,918	3,703	3,803	3,865	3,840
Peak Day Therms	16,743	19,470	19,949	20,429	20,908	18,859	21,865	22,345	22,825	23,302
Therms Per Residential Customer	541	537	528	522	516	513	505	500	495	492
Therms Per Commercial Customer	3,092	3,060	3,002	2,963	2,924	2,902	2,853	2,816	2,782	2,762
Therms Per Industrial Customer	37,017	36,199	35,311	35,783	34,945	34,268	34,559	33,926	33,163	33,668
Residential Customers	1,245	1,298	1,351	1,405	1,459	1,514	1,570	1,627	1,684	1,742
Commercial Customers	328	339	350	361	372	383	394	406	418	429
Industrial Customers	28	29	31	31	33	35	35	37	38	39
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,601	1,667	1,732	1,797	1,864	1,932	2,000	2,070	2,140	2,210



Appendix B  
Demand Forecast  
High Scenario

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Yakima Chief Ranch</b>										
Total Therms Pct. Growth	-0.04%	0.12%	-0.06%	-0.02%	-0.04%	0.11%	-0.06%	-0.03%	-0.03%	0.12%
Residential Therms	352,667	353,105	352,910	352,837	352,703	353,104	352,897	352,774	352,674	353,097
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	352,667	353,105	352,910	352,837	352,703	353,104	352,897	352,774	352,674	353,097
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	176,334	176,553	176,455	176,419	176,352	176,552	176,448	176,387	176,337	176,549
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	2	2	2	2	2	2	2	2	2	2
<b>Yakima Loop</b>										
Total Therms Pct. Growth	1.36%	1.81%	0.71%	1.19%	1.16%	1.58%	0.52%	0.97%	0.90%	1.39%
Residential Therms	15,620,436	15,878,981	15,961,826	16,126,315	16,289,035	16,527,553	16,587,060	16,727,497	16,858,546	17,078,887
Commercial Therms	16,152,940	16,436,936	16,546,773	16,736,570	16,924,287	17,184,966	17,268,039	17,430,094	17,581,341	17,820,863
Industrial Therms	4,433,036	4,545,033	4,613,711	4,700,574	4,786,107	4,887,199	4,943,460	5,017,635	5,087,213	5,178,412
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	36,206,412	36,860,950	37,122,309	37,563,459	37,999,429	38,599,719	38,798,560	39,175,227	39,527,100	40,078,162
Daily BaseLoad Therms	25,089	25,159	25,154	25,486	26,165	26,729	27,013	27,010	26,916	27,505
Peak Day Therms	304,629	319,515	323,344	327,043	330,599	332,799	337,488	340,635	343,668	346,611
Therms Per Residential Customer	651	649	641	636	631	629	621	615	610	607
Therms Per Commercial Customer	3,642	3,633	3,585	3,556	3,527	3,513	3,464	3,432	3,399	3,383
Therms Per Industrial Customer	33,509	33,176	32,487	31,983	31,431	31,121	30,570	30,150	29,718	29,398
Residential Customers	24,004	24,451	24,900	25,352	25,806	26,264	26,724	27,186	27,651	28,119
Commercial Customers	4,435	4,525	4,616	4,707	4,799	4,891	4,985	5,078	5,172	5,267
Industrial Customers	132	137	142	147	152	157	162	166	171	176
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	28,571	29,113	29,658	30,206	30,757	31,312	31,870	32,430	32,994	33,562
<b>Yakima Training Center</b>										
Total Therms Pct. Growth	0.50%	1.08%	-0.14%	0.45%	0.44%	1.01%	-0.21%	0.38%	0.35%	0.95%
Residential Therms	22,740	23,175	23,346	23,637	23,920	24,319	24,445	24,693	24,929	25,296
Commercial Therms	387,227	391,221	390,476	392,040	393,573	397,407	396,416	397,750	399,013	402,656
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	409,967	414,396	413,822	415,677	417,493	421,727	420,861	422,443	423,942	427,952
Daily BaseLoad Therms	50	49	51	52	52	49	50	51	53	52
Peak Day Therms	3,877	3,926	3,945	3,963	3,980	3,962	4,011	4,026	4,041	4,054
Therms Per Residential Customer	702	707	686	680	669	654	629	629	631	616
Therms Per Commercial Customer	3,308	3,324	3,285	3,288	3,265	3,283	3,247	3,237	3,227	3,233
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	32	33	34	35	36	37	37	39	39	41
Commercial Customers	117	118	119	119	121	121	122	123	124	125
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	149	150	153	154	156	158	160	162	163	166
<b>Zillah (Toppensish)</b>										
Total Therms Pct. Growth	0.69%	1.14%	0.07%	0.61%	0.69%	1.04%	0.06%	0.52%	0.39%	0.94%
Residential Therms	1,176,417	1,188,942	1,188,239	1,194,171	1,201,097	1,212,947	1,212,149	1,217,575	1,221,452	1,232,152
Commercial Therms	2,294,647	2,328,387	2,326,126	2,356,948	2,379,558	2,410,503	2,417,302	2,435,095	2,449,628	2,478,223
Industrial Therms	822,214	825,596	821,404	821,373	822,214	825,565	822,214	822,248	821,411	824,721
Ind., Inst., & Cmcl. Interup. Therms	73,908	74,362	74,566	74,924	75,311	75,615	75,788	76,110	76,323	76,733
<b>Total Core Therms</b>	4,367,405	4,417,307	4,420,335	4,447,417	4,478,180	4,524,631	4,527,472	4,551,028	4,568,815	4,611,830
Daily BaseLoad Therms	3,519	3,251	3,295	1,246	2,500	3,626	3,251	3,393	3,433	1,315
Peak Day Therms	34,251	39,132	39,380	39,619	39,849	35,416	40,338	40,540	40,734	40,981
Therms Per Residential Customer	543	542	536	532	529	529	522	519	515	514
Therms Per Commercial Customer	3,640	3,627	3,576	3,545	3,516	3,502	3,451	3,420	3,383	3,366
Therms Per Industrial Customer	30,414	29,003	28,722	28,721	28,751	28,735	27,232	27,234	27,206	27,315
Residential Customers	2,167	2,192	2,218	2,243	2,269	2,295	2,320	2,346	2,372	2,398
Commercial Customers	630	642	653	665	677	688	700	712	724	736
Industrial Customers	27	28	29	29	29	29	30	30	30	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	2,826	2,864	2,901	2,938	2,975	3,013	3,052	3,089	3,127	3,165
<b>Zone 10</b>										
Total Therms Pct. Growth	1.71%	2.01%	1.12%	1.48%	1.47%	1.70%	0.90%	1.21%	1.09%	1.46%
Residential Therms	3,799,583	3,844,721	3,853,276	3,879,362	3,906,503	3,948,505	3,954,550	3,977,269	3,997,057	4,035,794
Commercial Therms	9,101,258	9,340,237	9,503,350	9,697,820	9,892,009	10,105,531	10,245,179	10,411,782	10,565,436	10,756,027
Industrial Therms	1,899,940	1,904,162	1,902,797	1,909,418	1,916,989	1,930,325	1,929,049	1,934,764	1,939,083	1,951,600
Ind., Inst., & Cmcl. Interup. Therms	73,908	74,362	74,566	74,924	75,311	75,615	75,788	76,110	76,323	76,733
<b>Total Core Therms</b>	14,864,690	15,163,482	15,333,989	15,561,524	15,790,812	16,059,976	16,204,545	16,399,925	16,577,899	16,820,154
Daily BaseLoad Therms	12,080	10,931	11,073	10,494	12,037	13,222	11,789	11,921	12,015	11,479
Peak Day Therms	83,713	94,470	95,487	96,469	97,413	88,265	99,400	100,231	101,031	102,031
Therms Per Residential Customer	603	601	594	589	584	582	575	570	564	562
Therms Per Commercial Customer	5,329	5,360	5,354	5,364	5,371	5,387	5,364	5,359	5,339	5,338
Therms Per Industrial Customer	29,368	28,374	28,298	28,396	28,509	27,976	27,378	27,459	27,520	27,535
Residential Customers	6,296	6,393	6,490	6,587	6,685	6,784	6,883	6,983	7,082	7,184
Commercial Customers	1,708	1,743	1,775	1,808	1,842	1,876	1,910	1,943	1,979	2,015
Industrial Customers	64	67	67	67	67	69	70	70	70	71
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	8,069	8,203	8,333	8,463	8,595	8,730	8,864	8,997	9,133	9,271

**Appendix B  
Demand Forecast  
High Scenario**

Zone 11	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.89%	0.94%	0.87%	1.36%
Residential Therms	17,144,143	17,426,070	17,516,440	17,696,087	17,874,053	18,134,838	18,200,542	18,354,721	18,496,743	18,740,360
Commercial Therms	22,350,613	22,728,082	22,872,129	23,124,751	23,377,424	23,730,467	23,844,206	24,088,175	24,277,453	24,608,518
Industrial Therms	5,588,698	5,702,249	5,765,316	5,850,923	5,935,234	6,038,804	6,091,141	6,164,664	6,234,001	6,328,908
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>45,083,454</b>	<b>45,856,421</b>	<b>46,153,885</b>	<b>46,671,760</b>	<b>47,186,711</b>	<b>47,904,109</b>	<b>48,135,889</b>	<b>48,587,560</b>	<b>49,010,197</b>	<b>49,677,787</b>
Daily BaseLoad Therms	32,133	31,963	32,002	32,463	33,417	34,054	34,208	34,218	34,165	35,027
Peak Day Therms	361,789	379,815	384,169	388,381	392,443	382,846	400,539	404,174	407,683	411,525
Therms Per Residential Customer	628	627	618	613	608	606	597	592	586	584
Therms Per Commercial Customer	4,026	4,016	3,964	3,934	3,903	3,889	3,838	3,805	3,770	3,755
Therms Per Industrial Customer	32,450	31,978	31,350	30,864	30,257	30,055	29,660	29,011	28,660	28,220
Residential Customers	27,291	27,813	28,339	28,866	29,398	29,932	30,468	31,007	31,548	32,094
Commercial Customers	5,552	5,660	5,769	5,879	5,990	6,101	6,213	6,326	6,439	6,554
Industrial Customers	172	178	184	190	196	201	207	212	218	224
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>33,015</b>	<b>33,651</b>	<b>34,292</b>	<b>34,935</b>	<b>35,583</b>	<b>36,234</b>	<b>36,888</b>	<b>37,546</b>	<b>38,204</b>	<b>38,872</b>

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

Zone 24	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	5,169,728	5,242,436	5,260,171	5,305,492	5,351,520	5,424,505	5,441,588	5,486,183	5,529,567	5,602,907
Commercial Therms	4,936,058	5,013,730	5,040,682	5,093,309	5,146,555	5,225,688	5,252,494	5,305,219	5,357,042	5,436,988
Industrial Therms	811,510	831,842	847,568	866,068	885,387	907,468	924,707	944,930	965,380	988,877
Ind., Inst., & Cmcl. Interrup. Therms	959,469	964,183	959,330	959,332	959,469	964,183	959,466	959,467	959,333	964,048
<b>Total Core Therms</b>	<b>11,876,765</b>	<b>12,052,191</b>	<b>12,107,751</b>	<b>12,224,201</b>	<b>12,343,231</b>	<b>12,521,845</b>	<b>12,578,255</b>	<b>12,695,799</b>	<b>12,811,323</b>	<b>12,992,820</b>
Daily BaseLoad Therms	6,966	7,011	7,083	7,172	7,285	7,326	7,395	7,465	7,541	7,651
Peak Day Therms	95,399	98,523	99,410	100,296	101,181	100,028	103,129	104,014	104,899	105,965
Therms Per Residential Customer	603	603	597	594	591	591	585	583	580	580
Therms Per Commercial Customer	2,816	2,814	2,786	2,771	2,757	2,756	2,729	2,716	2,701	2,701
Therms Per Industrial Customer	20,939	20,920	20,636	20,499	20,107	20,194	19,949	19,814	19,543	19,583
Residential Customers	8,568	8,688	8,809	8,931	9,052	9,173	9,295	9,417	9,539	9,661
Commercial Customers	1,753	1,781	1,809	1,838	1,867	1,896	1,925	1,954	1,983	2,013
Industrial Customers	39	40	41	42	44	45	46	48	49	50
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>10,360</b>	<b>10,511</b>	<b>10,661</b>	<b>10,812</b>	<b>10,963</b>	<b>11,115</b>	<b>11,267</b>	<b>11,419</b>	<b>11,572</b>	<b>11,725</b>

Zone 26	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,255,248	2,317,483	2,360,562	2,413,539	2,467,519	2,530,595	2,572,779	2,626,793	2,678,708	2,742,580
Commercial Therms	6,835,299	6,939,446	6,991,073	7,070,068	7,151,859	7,257,240	7,310,395	7,389,485	7,465,653	7,572,193
Industrial Therms	1,200,929	1,232,342	1,253,782	1,280,573	1,308,300	1,340,154	1,362,078	1,388,937	1,414,782	1,447,035
Ind., Inst., & Cmcl. Interrup. Therms	93,133	93,541	93,147	93,139	93,167	93,481	93,157	93,193	93,150	93,081
<b>Total Core Therms</b>	<b>10,384,609</b>	<b>10,582,812</b>	<b>10,698,564</b>	<b>10,857,318</b>	<b>11,020,846</b>	<b>11,221,470</b>	<b>11,339,409</b>	<b>11,498,408</b>	<b>11,652,292</b>	<b>11,855,289</b>
Daily BaseLoad Therms	9,991	9,892	10,027	7,658	9,284	10,857	10,700	10,764	10,899	8,663
Peak Day Therms	86,691	92,571	93,894	95,217	96,539	93,166	99,318	100,640	101,960	103,422
Therms Per Residential Customer	477	473	465	460	455	451	445	440	435	432
Therms Per Commercial Customer	4,272	4,241	4,181	4,136	4,094	4,070	4,016	3,975	3,937	3,919
Therms Per Industrial Customer	28,012	27,716	27,294	27,607	27,234	26,953	27,139	26,839	26,448	26,803
Residential Customers	4,730	4,901	5,075	5,250	5,427	5,607	5,788	5,971	6,156	6,343
Commercial Customers	1,600	1,636	1,672	1,709	1,747	1,783	1,820	1,859	1,896	1,935
Industrial Customers	43	44	46	46	48	50	50	52	53	54
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>6,374</b>	<b>6,583</b>	<b>6,794</b>	<b>7,007</b>	<b>7,223</b>	<b>7,441</b>	<b>7,660</b>	<b>7,883</b>	<b>8,107</b>	<b>8,333</b>

Zone 30-S	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	31,301,819	31,856,182	32,130,031	32,544,983	32,963,618	33,525,245	33,795,459	34,210,516	34,621,715	35,190,533
Commercial Therms	18,799,978	19,110,510	19,263,041	19,495,414	19,730,483	20,044,975	20,196,304	20,428,733	20,658,365	20,976,595
Industrial Therms	730,181	737,077	737,887	741,792	745,907	752,777	753,632	757,540	761,340	766,390
Ind., Inst., & Cmcl. Interrup. Therms	1,760,149	1,766,917	1,760,014	1,760,014	1,760,149	1,766,917	1,760,150	1,760,150	1,760,014	1,766,781
<b>Total Core Therms</b>	<b>52,592,126</b>	<b>53,470,685</b>	<b>53,890,973</b>	<b>54,542,203</b>	<b>55,200,058</b>	<b>56,089,914</b>	<b>56,505,544</b>	<b>57,156,939</b>	<b>57,801,434</b>	<b>58,702,299</b>
Daily BaseLoad Therms	46,087	46,692	47,280	46,675	48,045	48,860	49,406	49,997	50,589	50,120
Peak Day Therms	397,788	409,404	414,422	419,437	424,449	423,204	434,828	439,840	444,850	450,225
Therms Per Residential Customer	661	659	651	647	642	640	633	629	625	623
Therms Per Commercial Customer	3,916	3,905	3,861	3,834	3,808	3,798	3,758	3,733	3,708	3,699
Therms Per Industrial Customer	26,078	26,324	26,353	26,493	26,636	26,885	26,915	27,055	27,191	27,442
Residential Customers	47,339	48,328	49,322	50,321	51,328	52,344	53,365	54,391	55,424	56,466
Commercial Customers	4,801	4,894	4,989	5,085	5,181	5,278	5,375	5,473	5,572	5,671
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>52,170</b>	<b>53,252</b>	<b>54,341</b>	<b>55,436</b>	<b>56,540</b>	<b>57,652</b>	<b>58,770</b>	<b>59,894</b>	<b>61,026</b>	<b>62,167</b>

**Appendix B  
Demand Forecast  
High Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Zone 30-W</b>										
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	66,925,042	67,786,308	68,064,297	68,651,377	69,254,807	70,146,008	70,449,850	71,053,999	71,646,768	72,545,650
Commercial Therms	38,029,547	38,584,466	38,825,964	39,232,755	39,651,713	40,224,356	40,479,874	40,898,796	41,311,240	41,903,349
Industrial Therms	4,904,901	4,993,929	5,050,337	5,124,668	5,201,020	5,293,622	5,353,089	5,430,279	5,506,771	5,603,336
Ind., Inst., & Cncl. Interup. Therms	87,444	87,940	87,637	87,637	87,444	87,940	87,444	87,444	87,637	87,934
<b>Total Core Therms</b>	109,947,134	111,452,642	112,030,235	113,096,437	114,197,183	115,751,926	116,370,457	117,470,719	118,552,434	120,140,269
Daily BaseLoad Therms	81,095	82,208	82,962	83,507	70,983	85,232	85,920	86,704	87,506	66,825
Peak Day Therms	859,971	893,219	901,936	910,719	919,572	901,606	936,969	946,044	955,189	963,872
Therms Per Residential Customer	643	640	632	626	621	619	611	606	601	599
Therms Per Commercial Customer	2,909	2,891	2,851	2,823	2,797	2,782	2,746	2,722	2,698	2,685
Therms Per Industrial Customer	17,944	17,826	17,528	17,322	17,146	16,887	16,663	16,495	16,333	16,228
Residential Customers	104,051	105,896	107,751	109,616	111,492	113,384	115,285	117,197	119,120	121,059
Commercial Customers	13,074	13,345	13,620	13,896	14,175	14,456	14,739	15,025	15,313	15,604
Industrial Customers	273	280	288	296	303	313	321	329	337	345
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	117,400	119,523	121,660	123,809	125,971	128,154	130,346	132,552	134,772	137,010
<b>Zone GTN</b>										
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	53,394,387	54,941,552	55,907,916	57,165,868	58,432,058	60,005,986	60,953,932	62,212,796	63,463,130	65,064,238
Commercial Therms	26,659,273	27,152,989	27,364,476	27,718,458	28,077,419	28,578,778	28,787,741	29,142,007	29,491,366	30,000,811
Industrial Therms	4,128,604	4,240,694	4,312,872	4,405,356	4,499,002	4,612,599	4,684,248	4,776,719	4,867,964	4,963,143
Ind., Inst., & Cncl. Interup. Therms	307,667	309,284	307,586	307,586	307,667	309,284	307,667	307,667	307,586	309,203
<b>Total Core Therms</b>	84,489,931	86,644,519	87,892,650	89,597,267	91,316,144	93,586,647	94,733,588	96,439,188	98,130,046	100,357,395
Daily BaseLoad Therms	48,732	50,047	51,245	52,259	53,375	53,862	54,861	56,147	57,379	58,558
Peak Day Therms	796,611	826,402	842,846	859,286	875,724	877,875	908,829	925,275	941,722	958,404
Therms Per Residential Customer	705	700	688	681	673	669	659	652	645	642
Therms Per Commercial Customer	3,027	3,019	2,980	2,958	2,936	2,894	2,874	2,853	2,828	2,848
Therms Per Industrial Customer	24,804	24,495	23,939	23,630	23,255	22,990	22,603	22,327	22,016	21,819
Residential Customers	75,774	78,486	81,225	83,995	86,798	89,640	92,508	95,406	98,335	101,302
Commercial Customers	8,808	8,994	9,183	9,371	9,562	9,753	9,946	10,141	10,336	10,534
Industrial Customers	166	173	180	186	193	201	207	214	221	228
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	84,750	87,654	90,589	93,554	96,555	99,594	102,662	105,762	108,892	112,066
<b>Zone ME-OR</b>										
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	7,436,272	7,572,187	7,629,188	7,726,130	7,824,870	7,962,542	8,019,225	8,116,270	8,211,418	8,351,239
Commercial Therms	7,934,620	8,054,908	8,098,727	8,181,383	8,265,851	8,387,504	8,431,499	8,514,210	8,595,044	8,718,393
Industrial Therms	1,510,977	1,523,271	1,523,881	1,530,411	1,537,104	1,549,385	1,550,011	1,556,526	1,562,889	1,575,453
Ind., Inst., & Cncl. Interup. Therms	1,449,057	1,454,947	1,448,705	1,448,706	1,449,057	1,454,947	1,449,055	1,449,056	1,448,706	1,454,597
<b>Total Core Therms</b>	18,330,926	18,605,314	18,700,500	18,886,630	19,076,882	19,354,378	19,449,790	19,636,063	19,818,058	20,099,883
Daily BaseLoad Therms	16,392	16,571	16,727	16,822	17,055	17,115	17,273	17,442	17,605	17,722
Peak Day Therms	155,237	161,040	162,613	164,185	165,754	163,467	169,199	170,767	172,333	174,218
Therms Per Residential Customer	511	508	501	496	492	490	483	479	475	473
Therms Per Commercial Customer	3,481	3,474	3,434	3,412	3,390	3,384	3,346	3,325	3,304	3,299
Therms Per Industrial Customer	47,128	47,511	45,133	44,134	44,327	44,681	44,123	44,451	44,621	44,955
Residential Customers	14,566	14,898	15,233	15,570	15,910	16,253	16,599	16,947	17,296	17,650
Commercial Customers	2,279	2,318	2,358	2,398	2,438	2,478	2,520	2,561	2,601	2,643
Industrial Customers	32	32	34	35	35	35	37	38	38	38
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	16,879	17,250	17,627	18,005	18,384	18,768	19,158	19,548	19,937	20,332
<b>Zone ME-WA</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	8,302,958	8,422,670	8,460,388	8,533,377	8,605,905	8,712,641	8,738,745	8,801,452	8,859,299	8,957,207
Commercial Therms	7,265,657	7,343,725	7,355,506	7,396,576	7,437,558	7,507,029	7,510,549	7,544,353	7,574,494	7,626,855
Industrial Therms	279,220	286,175	290,658	296,088	301,496	307,898	311,734	316,685	321,407	327,364
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	15,847,835	16,052,569	16,106,552	16,226,041	16,344,960	16,528,568	16,561,028	16,662,490	16,755,201	16,921,426
Daily BaseLoad Therms	12,952	12,986	13,010	13,099	13,247	13,398	13,492	13,493	13,488	13,614
Peak Day Therms	179,974	184,194	185,740	187,181	188,582	187,110	191,149	192,375	193,529	194,585
Therms Per Residential Customer	562	558	550	544	538	534	526	520	514	511
Therms Per Commercial Customer	4,466	4,433	4,361	4,310	4,260	4,227	4,160	4,112	4,063	4,033
Therms Per Industrial Customer	10,018	9,963	9,594	9,680	9,407	9,432	9,213	8,883	8,939	8,730
Residential Customers	14,780	15,084	15,389	15,692	15,998	16,304	16,610	16,917	17,225	17,534
Commercial Customers	1,627	1,657	1,687	1,716	1,746	1,776	1,805	1,835	1,864	1,894
Industrial Customers	28	29	30	31	32	33	34	36	36	37
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	16,435	16,769	17,106	17,439	17,776	18,112	18,449	18,788	19,125	19,465
<b>Oregon</b>										
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	66,000,387	67,756,175	68,797,275	70,197,490	71,608,448	73,393,033	74,414,745	75,815,249	77,204,116	79,018,385
Commercial Therms	39,529,952	40,221,626	40,503,885	40,993,150	41,490,125	42,191,970	42,471,734	42,961,436	43,443,852	44,156,192
Industrial Therms	6,451,990	6,595,808	6,694,200	6,801,835	6,921,493	7,069,452	7,158,965	7,278,174	7,396,233	7,547,473
Ind., Inst., & Cncl. Interup. Therms	2,716,193	2,728,414	2,715,621	2,715,622	2,716,193	2,728,415	2,716,188	2,716,191	2,715,625	2,727,848
<b>Total Core Therms</b>	114,697,622	117,202,024	118,701,102	120,708,098	122,736,259	125,382,870	126,761,633	128,771,050	130,759,426	133,449,998
Daily BaseLoad Therms	72,091	73,629	75,056	76,255	77,716	78,303	79,529	81,054	82,556	83,931
Peak Day Therms	1,047,206	1,085,965	1,104,869	1,123,764	1,142,659	1,141,349	1,181,157	1,200,056	1,218,954	1,238,587
Therms Per Residential Customer	667	664	654	647	641	638	628	623	617	614
Therms Per Commercial Customer	3,079	3,072	3,034	3,013	2,992	2,987	2,951	2,931	2,912	2,907
Therms Per Industrial Customer	27,189	26,928	26,213	25,828	25,430	25,226	24,657	24,326	24,009	23,852
Residential Customers	98,908	102,072	105,266	108,496	111,760	115,067	118,402	121,770	125,170	128,614
Commercial Customers	12,840	13,094	13,351	13,607	13,867	14,127	14,391	14,655	14,920	15,189
Industrial Customers	237	245	255	263	272	280	290	299	308	316
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	111,989	115,415	118,877	122,371	125,903	129,478	133,088	136,729	140,401	144,124

**Appendix B  
Demand Forecast  
High Scenario**

Washington	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.21%	1.63%	0.70%	1.14%	1.14%	1.54%	0.63%	1.06%	1.01%	1.46%
Residential Therms	152,125,165	154,552,940	155,544,430	157,247,849	158,976,449	161,390,147	162,337,181	164,005,170	165,629,724	168,040,911
Commercial Therms	126,563,800	128,678,777	129,466,719	131,203,701	132,759,356	134,839,345	135,740,201	137,239,216	138,666,437	140,714,903
Industrial Therms	15,721,462	15,998,509	16,148,284	16,361,323	16,577,020	16,847,023	16,989,551	17,191,685	17,386,513	17,651,167
Ind., Inst., & Cmcl. Interrup. Therms	2,319,735	2,328,933	2,320,228	2,320,578	2,321,172	2,330,127	2,321,639	2,321,997	2,321,987	2,331,065
<b>Total Core Therms</b>	<b>296,730,163</b>	<b>301,559,159</b>	<b>303,679,661</b>	<b>307,133,451</b>	<b>310,633,995</b>	<b>315,406,642</b>	<b>317,408,571</b>	<b>320,758,067</b>	<b>324,004,661</b>	<b>328,738,047</b>
Daily Baseload Therms	235,679	236,674	238,827	216,254	230,358	249,953	250,378	252,472	254,490	231,535
Peak Day Therms	2,345,533	2,443,744	2,471,210	2,498,338	2,525,273	2,480,008	2,579,942	2,606,263	2,632,368	2,659,913
Therms Per Residential Customer	603	599	590	584	578	574	566	560	554	551
Therms Per Commercial Customer	3,675	3,658	3,610	3,579	3,549	3,533	3,488	3,459	3,428	3,413
Therms Per Industrial Customer	24,086	23,849	23,486	23,263	23,007	22,783	22,467	22,233	22,056	21,865
Residential Customers	252,310	257,972	263,671	269,402	275,179	281,009	286,870	292,771	298,709	304,701
Commercial Customers	34,444	35,179	35,918	36,660	37,410	38,163	38,919	39,681	40,449	41,223
Industrial Customers	653	671	688	703	721	739	756	773	788	807
Interruption Customers	7	7	7	7	7	7	7	7	7	7
<b>Total Core Customers</b>	<b>287,414</b>	<b>293,829</b>	<b>300,283</b>	<b>306,773</b>	<b>313,316</b>	<b>319,918</b>	<b>326,552</b>	<b>333,232</b>	<b>339,954</b>	<b>346,739</b>
<b>System</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.37%	1.81%	0.84%	1.29%	1.29%	1.71%	0.77%	1.21%	1.16%	1.63%
Residential Therms	218,125,552	222,309,115	224,341,705	227,445,339	230,584,897	234,783,181	236,751,926	239,820,418	242,833,840	247,059,296
Commercial Therms	166,093,752	168,900,403	170,170,604	172,196,851	174,249,480	177,031,315	178,231,935	180,200,653	182,109,889	184,871,095
Industrial Therms	22,172,552	22,594,316	22,832,604	23,163,157	23,498,513	23,916,475	24,148,516	24,469,859	24,782,746	25,196,641
Ind., Inst., & Cmcl. Interrup. Therms	5,035,928	5,057,348	5,035,849	5,038,201	5,037,364	5,058,541	5,037,827	5,038,187	5,037,813	5,058,913
<b>Total Core Therms</b>	<b>411,427,384</b>	<b>418,861,182</b>	<b>422,380,763</b>	<b>427,841,549</b>	<b>433,370,254</b>	<b>440,789,512</b>	<b>444,170,204</b>	<b>449,529,117</b>	<b>454,764,087</b>	<b>462,187,944</b>
Daily Baseload Therms	307,770	310,303	313,883	292,507	308,074	328,257	329,907	333,525	337,016	315,466
Peak Day Therms	3,392,739	3,529,709	3,576,079	3,622,103	3,667,933	3,621,378	3,761,099	3,806,319	3,851,322	3,898,499
Therms Per Residential Customer	1,327	1,332	1,325	1,325	1,325	1,331	1,325	1,326	1,327	1,334
Therms Per Commercial Customer	4,520	4,549	4,530	4,540	4,542	4,576	4,555	4,563	4,566	4,593
Therms Per Industrial Customer	59,702	60,582	60,790	61,340	61,905	62,790	62,993	63,535	64,059	64,953
Residential Customers	351,218	360,044	368,938	377,898	386,938	396,075	405,272	414,541	423,879	433,315
Commercial Customers	47,284	48,273	49,269	50,268	51,277	52,290	53,310	54,337	55,369	56,413
Industrial Customers	890	916	943	967	993	1,020	1,047	1,072	1,096	1,124
Interruption Customers	11	11	11	11	11	11	11	11	11	11
<b>Total Core Customers</b>	<b>399,403</b>	<b>409,244</b>	<b>419,160</b>	<b>429,144</b>	<b>439,219</b>	<b>449,396</b>	<b>459,639</b>	<b>469,961</b>	<b>480,355</b>	<b>490,862</b>

Appendix B  
Demand Forecast  
Low Scenario

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

Appendix B  
Demand Forecast  
Low Scenario

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

**Appendix B  
Demand Forecast  
Low Scenario**

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

**Appendix B  
Demand Forecast  
Low Scenario**

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





**Appendix B  
Demand Forecast  
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>LDS Church</b>										
Total Therms Pct. Growth		-0.02%	0.00%	0.49%	-0.49%	0.00%	0.00%	0.49%	-0.49%	0.00%
Residential Therms	5,058	5,056	5,056	5,079	5,056	5,056	5,056	5,079	5,056	5,056
Commercial Therms	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>9,961</b>	<b>9,959</b>	<b>9,959</b>	<b>10,008</b>	<b>9,959</b>	<b>9,959</b>	<b>10,009</b>	<b>9,959</b>	<b>9,959</b>	<b>9,959</b>
Daily BaseLoad Therms	9	9	9	9	9	9	9	9	9	9
Peak Day Therms	57	57	57	57	57	57	57	57	57	57
Therms Per Residential Customer	1,265	1,264	1,264	1,270	1,264	1,264	1,264	1,270	1,264	1,264
Therms Per Commercial Customer	4,903	4,903	4,903	4,929	4,903	4,903	4,903	4,929	4,903	4,903
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	1	1	1	1	1	1	1	1	1	1
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Longview South Loop</b>										
Total Therms Pct. Growth		1.40%	1.41%	1.77%	1.02%	1.35%	1.33%	1.61%	1.00%	1.28%
Residential Therms	1,098,280	1,127,459	1,156,940	1,191,111	1,216,391	1,245,870	1,275,344	1,308,835	1,334,401	1,363,852
Commercial Therms	4,293,461	4,347,162	4,402,054	4,473,832	4,513,386	4,568,309	4,623,232	4,691,919	4,733,309	4,788,232
Industrial Therms	188,441	184,840	181,297	178,331	174,234	170,702	167,174	164,043	160,100	156,588
Ind., Inst., & Cmcl. Interup. Therms	84,315	84,277	84,271	84,590	84,260	84,267	84,319	84,553	84,291	84,274
<b>Total Core Therms</b>	<b>5,644,497</b>	<b>5,743,738</b>	<b>5,824,562</b>	<b>5,927,864</b>	<b>5,988,271</b>	<b>6,069,168</b>	<b>6,150,069</b>	<b>6,249,349</b>	<b>6,312,101</b>	<b>6,392,946</b>
Daily BaseLoad Therms	4,796	4,861	3,379	3,738	5,133	5,184	5,137	3,629	4,468	4,030
Peak Day Therms	55,921	56,685	57,448	56,649	57,390	59,847	60,609	61,487	62,249	61,200
Therms Per Residential Customer	525	531	537	545	550	556	562	569	573	579
Therms Per Commercial Customer	4,612	4,634	4,658	4,698	4,704	4,728	4,750	4,787	4,796	4,818
Therms Per Industrial Customer	14,495	14,218	13,946	13,718	13,403	13,131	12,860	12,619	12,315	12,045
Residential Customers	2,092	2,123	2,154	2,184	2,213	2,242	2,271	2,300	2,328	2,355
Commercial Customers	931	938	945	952	959	966	973	980	987	994
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>3,037</b>	<b>3,075</b>	<b>3,113</b>	<b>3,150</b>	<b>3,187</b>	<b>3,223</b>	<b>3,258</b>	<b>3,294</b>	<b>3,329</b>	<b>3,363</b>
<b>Madras</b>										
Total Therms Pct. Growth		0.99%	1.01%	1.57%	0.47%	0.99%	0.98%	1.45%	0.49%	0.96%
Residential Therms	681,002	690,982	701,191	715,484	721,968	732,333	742,697	756,716	763,420	773,811
Commercial Therms	1,181,139	1,192,402	1,204,035	1,222,258	1,227,827	1,239,638	1,251,450	1,269,018	1,275,071	1,286,911
Industrial Therms	873,982	882,591	891,472	905,564	909,607	918,624	927,641	941,279	945,656	954,695
Ind., Inst., & Cmcl. Interup. Therms	278,365	278,292	278,292	279,828	278,366	278,365	279,681	279,681	278,366	278,365
<b>Total Core Therms</b>	<b>3,014,489</b>	<b>3,044,268</b>	<b>3,074,989</b>	<b>3,123,134</b>	<b>3,137,768</b>	<b>3,168,960</b>	<b>3,200,153</b>	<b>3,246,694</b>	<b>3,262,513</b>	<b>3,293,783</b>
Daily BaseLoad Therms	2,287	2,335	2,341	2,353	2,351	2,375	2,425	2,459	2,472	2,485
Peak Day Therms	25,993	26,264	26,535	25,986	26,252	27,350	27,625	27,891	28,167	27,581
Therms Per Residential Customer	514	515	517	521	520	522	524	528	527	529
Therms Per Commercial Customer	3,093	3,118	3,141	3,163	3,160	3,215	3,239	3,277	3,287	3,309
Therms Per Industrial Customer	48,555	49,033	49,526	50,309	50,534	51,035	51,536	52,293	52,536	53,039
Residential Customers	1,325	1,341	1,357	1,372	1,388	1,403	1,418	1,433	1,447	1,462
Commercial Customers	382	382	383	384	385	386	386	387	388	389
Industrial Customers	18	18	18	18	18	18	18	18	18	18
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,726</b>	<b>1,743</b>	<b>1,759</b>	<b>1,775</b>	<b>1,792</b>	<b>1,808</b>	<b>1,823</b>	<b>1,839</b>	<b>1,854</b>	<b>1,870</b>
<b>McCleary (Aberdeen/Hoquiam)</b>										
Total Therms Pct. Growth		0.78%	0.81%	1.25%	0.39%	0.79%	0.79%	1.13%	0.43%	0.77%
Residential Therms	2,448,751	2,501,005	2,534,028	2,579,137	2,601,122	2,634,190	2,667,259	2,710,346	2,732,532	2,766,613
Commercial Therms	3,083,675	3,098,749	3,114,881	3,144,446	3,148,402	3,164,503	3,180,665	3,207,154	3,213,071	3,229,310
Industrial Therms	205,866	203,717	201,634	200,341	197,531	195,452	193,374	191,858	189,210	187,135
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>5,738,292</b>	<b>5,803,471</b>	<b>5,850,543</b>	<b>5,923,923</b>	<b>5,947,054</b>	<b>5,994,146</b>	<b>6,041,299</b>	<b>6,109,359</b>	<b>6,135,813</b>	<b>6,183,059</b>
Daily BaseLoad Therms	5,406	5,431	4,483	4,602	5,554	5,581	5,606	4,681	5,369	4,751
Peak Day Therms	36,120	36,418	36,715	35,190	35,472	37,713	38,010	38,417	38,714	36,989
Therms Per Residential Customer	672	676	679	686	687	690	694	700	700	704
Therms Per Commercial Customer	4,286	4,293	4,303	4,330	4,322	4,330	4,340	4,362	4,357	4,366
Therms Per Industrial Customer	15,836	15,671	15,510	15,411	15,195	15,035	14,875	14,768	14,555	14,395
Residential Customers	3,672	3,702	3,731	3,760	3,789	3,818	3,846	3,874	3,902	3,930
Commercial Customers	719	722	724	726	728	731	733	735	737	740
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,404</b>	<b>4,436</b>	<b>4,468</b>	<b>4,499</b>	<b>4,530</b>	<b>4,561</b>	<b>4,592</b>	<b>4,622</b>	<b>4,653</b>	<b>4,683</b>
<b>Milton-Freewater</b>										
Total Therms Pct. Growth		1.22%	1.24%	1.76%	0.73%	1.20%	1.18%	1.59%	0.74%	1.14%
Residential Therms	104,809	105,943	107,114	108,921	109,505	110,676	111,848	113,570	114,203	115,375
Commercial Therms	301,062	305,744	310,539	316,934	320,280	325,079	329,878	335,990	339,499	344,297
Industrial Therms	18,285	17,645	17,012	16,474	15,752	15,118	14,484	13,918	13,219	12,585
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>424,156</b>	<b>429,332</b>	<b>434,664</b>	<b>442,329</b>	<b>445,538</b>	<b>450,873</b>	<b>456,209</b>	<b>463,477</b>	<b>466,921</b>	<b>472,257</b>
Daily BaseLoad Therms	355	356	348	354	378	382	384	374	392	382
Peak Day Therms	4,848	4,909	4,969	4,870	4,929	5,153	5,214	5,276	5,337	5,224
Therms Per Residential Customer	423	423	423	426	423	424	424	427	425	426
Therms Per Commercial Customer	2,809	2,827	2,845	2,878	2,882	2,900	2,918	2,948	2,954	2,972
Therms Per Industrial Customer	4,302	4,152	4,003	3,876	3,706	3,557	3,408	3,275	3,110	2,961
Residential Customers	248	251	253	256	259	261	264	266	269	271
Commercial Customers	107	108	109	110	111	112	113	114	115	116
Industrial Customers	4	4	4	4	4	4	4	4	4	4
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>359</b>	<b>363</b>	<b>367</b>	<b>370</b>	<b>374</b>	<b>377</b>	<b>381</b>	<b>384</b>	<b>388</b>	<b>391</b>

**Appendix B  
Demand Forecast  
Low Scenario**

Mission Tap	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.85%	0.84%	1.23%	0.43%	0.82%	0.81%	1.21%	0.40%	0.79%
Residential Therms	118,387	119,342	119,938	121,044	121,097	121,672	122,247	123,363	123,406	123,982
Commercial Therms	397,938	401,747	405,526	410,881	413,090	416,868	420,647	426,074	428,215	431,994
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	516,726	521,110	525,464	531,925	534,187	538,540	542,894	549,437	551,622	555,975
Daily Baseload Therms	521	526	530	535	539	544	548	553	557	562
Peak Day Therms	5,692	5,740	5,787	5,839	5,886	5,929	5,977	6,024	6,071	6,123
Therms Per Residential Customer	539	541	542	545	544	545	546	550	549	550
Therms Per Commercial Customer	8,843	8,887	8,897	8,934	8,887	8,945	8,949	8,980	8,996	9,008
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	220	221	221	222	223	223	224	224	225	225
Commercial Customers	45	45	46	46	46	47	47	47	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	265	266	267	268	269	270	271	272	272	273
<b>Moses Lake</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		0.44%	0.37%	0.82%	-0.17%	0.34%	0.31%	0.69%	-0.11%	0.28%
Residential Therms	286,703	288,346	289,770	292,634	292,333	293,690	294,946	297,445	297,355	298,517
Commercial Therms	2,198,693	2,211,387	2,221,977	2,242,546	2,240,645	2,250,608	2,259,630	2,277,146	2,276,943	2,285,276
Industrial Therms	110,771	107,770	105,282	103,255	100,902	98,536	96,361	94,682	92,172	90,154
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	2,596,167	2,607,503	2,617,028	2,638,434	2,633,880	2,642,834	2,650,936	2,669,274	2,666,471	2,673,946
Daily Baseload Therms	2,505	2,512	2,528	2,556	2,566	2,580	2,583	2,573	2,600	2,624
Peak Day Therms	16,136	16,172	16,196	15,815	15,826	16,331	16,349	16,443	16,459	15,982
Therms Per Residential Customer	400	402	404	407	407	408	410	413	413	414
Therms Per Commercial Customer	5,746	5,773	5,796	5,846	5,836	5,859	5,876	5,920	5,913	5,931
Therms Per Industrial Customer	13,846	13,471	13,160	12,907	12,613	12,317	12,045	11,835	11,522	11,269
Residential Customers	717	718	718	718	719	719	719	720	720	721
Commercial Customers	383	383	383	384	384	384	385	385	385	385
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,108	1,109	1,109	1,110	1,111	1,111	1,112	1,112	1,113	1,114
<b>Moxee (Beauchene)</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.69%	1.67%	2.01%	1.20%	1.52%	1.47%	1.75%	1.03%	1.31%
Residential Therms	612,043	623,141	634,303	648,520	656,383	667,068	677,541	690,624	697,708	707,446
Commercial Therms	506,678	533,560	560,364	589,633	613,193	638,859	664,005	691,261	712,465	735,854
Industrial Therms	610,882	602,182	593,650	586,124	576,646	568,449	560,440	553,362	544,946	537,375
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	1,729,604	1,758,883	1,788,317	1,824,276	1,846,222	1,874,376	1,901,987	1,935,247	1,955,119	1,980,675
Daily Baseload Therms	299	332	376	477	499	356	377	417	550	563
Peak Day Therms	10,429	10,677	10,922	10,848	11,079	11,741	11,969	12,298	12,513	12,258
Therms Per Residential Customer	562	565	567	573	572	575	577	582	581	583
Therms Per Commercial Customer	8,011	8,326	8,655	9,017	9,263	9,570	9,825	10,147	10,329	10,587
Therms Per Industrial Customer	49,531	48,498	47,811	47,048	46,134	45,329	44,545	43,699	42,624	41,900
Residential Customers	1,089	1,103	1,118	1,133	1,147	1,161	1,174	1,187	1,200	1,213
Commercial Customers	63	64	65	65	66	67	68	68	69	70
Industrial Customers	12	12	12	12	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	1,165	1,180	1,195	1,210	1,225	1,240	1,254	1,268	1,282	1,295
<b>North Bend</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		4.26%	4.15%	4.70%	3.19%	3.66%	3.54%	4.01%	2.82%	3.23%
Residential Therms	4,985	5,167	5,347	5,570	5,716	5,903	6,093	6,323	6,483	6,679
Commercial Therms	181,946	190,150	198,480	208,221	215,286	223,552	231,830	241,484	248,653	257,011
Industrial Therms	9,851	9,850	9,850	9,922	9,857	9,853	9,855	9,907	9,856	9,860
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	196,782	205,168	213,677	223,712	230,860	239,307	247,778	257,714	264,992	273,550
Daily Baseload Therms	32	31	31	33	33	33	32	31	32	33
Peak Day Therms	3,206	3,356	3,506	3,553	3,700	3,953	4,104	4,251	4,402	4,432
Therms Per Residential Customer	1,246	1,292	1,337	1,392	1,429	1,476	1,523	1,581	1,621	1,670
Therms Per Commercial Customer	2,126	2,161	2,198	2,252	2,274	2,309	2,343	2,393	2,415	2,448
Therms Per Industrial Customer	4,926	4,925	4,925	4,961	4,928	4,928	4,927	4,953	4,928	4,930
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	86	88	90	92	95	97	99	101	103	105
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	92	94	96	98	101	103	105	107	109	111
<b>Nyssa-Ontario</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.03%	1.03%	1.53%	0.51%	1.00%	0.99%	1.45%	0.50%	0.96%
Residential Therms	2,020,761	2,044,500	2,068,516	2,104,044	2,117,006	2,141,029	2,165,052	2,200,198	2,213,252	2,237,275
Commercial Therms	2,449,515	2,481,485	2,513,777	2,559,304	2,578,844	2,611,146	2,643,449	2,688,594	2,708,189	2,740,491
Industrial Therms	450,433	454,239	458,102	463,332	465,446	469,334	473,220	478,254	480,992	484,880
Ind., Inst., & Cmcl. Interrup. Therms	868,088	867,947	867,968	872,356	868,088	868,090	868,091	872,111	868,088	868,090
<b>Total Core Therms</b>	5,788,798	5,840,190	5,908,364	5,999,036	6,029,388	6,089,599	6,149,812	6,239,157	6,270,520	6,330,736
Daily Baseload Therms	3,640	3,666	3,726	3,764	3,786	3,806	3,828	3,844	3,889	3,925
Peak Day Therms	41,718	42,151	42,583	42,319	42,741	44,006	44,437	45,002	45,433	44,989
Therms Per Residential Customer	526	529	532	538	538	541	543	549	549	552
Therms Per Commercial Customer	2,589	2,606	2,623	2,654	2,658	2,674	2,691	2,721	2,724	2,741
Therms Per Industrial Customer	19,100	18,993	18,799	18,765	18,611	18,506	18,351	18,357	18,225	18,143
Residential Customers	3,843	3,867	3,891	3,914	3,937	3,961	3,984	4,007	4,030	4,052
Commercial Customers	946	952	958	964	970	976	982	988	994	1,000
Industrial Customers	24	24	24	25	25	25	26	26	26	27
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	4,814	4,844	4,874	4,904	4,934	4,963	4,993	5,022	5,051	5,080

Appendix B  
Demand Forecast  
Low Scenario

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Othello</b>										
Total Therms Pct. Growth		0.71%	0.65%	0.89%	0.35%	0.62%	0.87%	1.03%	0.36%	0.62%
Residential Therms	597,416	598,601	599,710	603,536	601,992	603,072	604,253	608,182	606,682	607,804
Commercial Therms	1,399,263	1,323,589	1,336,746	1,353,487	1,344,004	1,376,776	1,390,837	1,409,244	1,420,105	1,433,397
Industrial Therms	200,749	200,749	200,749	201,637	200,749	200,749	200,749	201,637	200,749	200,749
Ind., Inst., & Cmcl. Interup. Therms	81,766	81,765	81,765	82,064	81,766	81,766	81,766	82,062	81,766	81,766
<b>Total Core Therms</b>	<b>2,189,214</b>	<b>2,204,724</b>	<b>2,218,991</b>	<b>2,240,723</b>	<b>2,248,531</b>	<b>2,262,383</b>	<b>2,277,624</b>	<b>2,301,124</b>	<b>2,309,323</b>	<b>2,323,736</b>
Daily Baseload Therms	1,636	1,649	1,661	1,676	1,690	1,702	1,715	1,733	1,747	1,758
Peak Day Therms	11,871	11,934	11,993	12,019	12,085	12,165	12,228	12,284	12,351	12,387
Therms Per Residential Customer	542	541	541	543	541	540	540	542	540	540
Therms Per Commercial Customer	4,279	4,295	4,305	4,328	4,330	4,340	4,355	4,381	4,387	4,397
Therms Per Industrial Customer	22,308	22,308	22,308	22,404	22,308	22,308	22,308	22,404	22,308	22,308
Residential Customers	1,103	1,106	1,108	1,111	1,113	1,116	1,119	1,121	1,124	1,127
Commercial Customers	306	308	310	313	315	317	319	322	324	326
Industrial Customers	9	9	9	9	9	9	9	9	9	9
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>1,419</b>	<b>1,424</b>	<b>1,429</b>	<b>1,434</b>	<b>1,438</b>	<b>1,443</b>	<b>1,448</b>	<b>1,453</b>	<b>1,458</b>	<b>1,462</b>
<b>Patterson</b>										
Total Therms Pct. Growth		-0.05%	0.00%	0.20%	-0.14%	0.00%	0.00%	0.03%	-0.03%	0.00%
Residential Therms	39	48	55	63	71	79	88	95	104	112
Commercial Therms	290,342	290,185	290,185	290,747	290,342	290,342	290,342	290,436	290,339	290,341
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>290,381</b>	<b>290,233</b>	<b>290,240</b>	<b>290,810</b>	<b>290,413</b>	<b>290,421</b>	<b>290,430</b>	<b>290,531</b>	<b>290,443</b>	<b>290,453</b>
Daily Baseload Therms	144	147	142	141	144	144	144	144	140	140
Peak Day Therms	341	343	344	345	343	343	345	341	342	348
Therms Per Residential Customer	39	48	55	63	71	79	88	95	104	112
Therms Per Commercial Customer	58,068	58,037	58,037	58,149	58,068	58,068	58,068	58,087	58,068	58,068
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	1	1	1	1	1	1	1	1	1	1
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Pendleton</b>										
Total Therms Pct. Growth		0.79%	0.80%	1.30%	0.30%	0.78%	0.78%	1.24%	0.31%	0.76%
Residential Therms	2,739,718	2,768,686	2,798,044	2,842,457	2,857,427	2,886,794	2,916,160	2,959,928	2,975,137	3,004,504
Commercial Therms	2,275,059	2,292,290	2,309,845	2,338,959	2,345,432	2,362,993	2,380,554	2,408,981	2,415,806	2,433,367
Industrial Therms	150,001	149,992	149,999	150,856	150,002	149,998	150,005	150,810	150,032	150,026
Ind., Inst., & Cmcl. Interup. Therms	637,873	637,776	637,776	640,321	637,873	637,873	637,873	640,127	637,873	637,873
<b>Total Core Therms</b>	<b>5,802,651</b>	<b>5,848,743</b>	<b>5,895,665</b>	<b>5,972,593</b>	<b>5,990,734</b>	<b>6,037,658</b>	<b>6,084,592</b>	<b>6,159,846</b>	<b>6,178,848</b>	<b>6,225,769</b>
Daily Baseload Therms	4,486	4,527	4,558	4,561	4,585	4,626	4,672	4,717	4,740	4,746
Peak Day Therms	59,914	60,399	60,884	60,385	61,063	62,410	62,895	63,462	63,937	63,525
Therms Per Residential Customer	533	535	537	542	542	544	546	551	550	552
Therms Per Commercial Customer	2,857	2,944	2,970	2,992	2,985	2,991	2,998	3,019	3,013	3,019
Therms Per Industrial Customer	25,000	24,999	25,000	25,143	25,000	25,000	25,001	25,135	25,005	25,004
Residential Customers	5,138	5,173	5,207	5,241	5,275	5,309	5,342	5,376	5,409	5,441
Commercial Customers	769	774	778	782	786	790	794	798	802	806
Industrial Customers	6	6	6	6	6	6	6	6	6	6
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,915</b>	<b>5,953</b>	<b>5,992</b>	<b>6,030</b>	<b>6,068</b>	<b>6,106</b>	<b>6,143</b>	<b>6,180</b>	<b>6,217</b>	<b>6,254</b>
<b>Plymouth</b>										
Total Therms Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Therms	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Therms	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Therms	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>27,489</b>	<b>27,482</b>	<b>27,485</b>	<b>27,651</b>	<b>27,479</b>	<b>27,482</b>	<b>27,484</b>	<b>27,652</b>	<b>27,480</b>	<b>27,482</b>
Daily Baseload Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	212	212	211	211	211	211	211
Therms Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Therms Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,838	1,839	1,852	1,838	1,838
Therms Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Prineville</b>										
Total Therms Pct. Growth		2.02%	2.00%	2.56%	1.37%	1.89%	1.86%	2.34%	1.28%	1.76%
Residential Therms	1,576,396	1,625,368	1,674,724	1,734,406	1,774,102	1,823,449	1,872,780	1,932,159	1,971,623	2,020,920
Commercial Therms	1,672,681	1,696,966	1,721,637	1,756,337	1,771,584	1,796,286	1,821,001	1,854,889	1,870,571	1,895,296
Industrial Therms	403,236	403,780	404,410	407,356	405,775	406,412	407,053	409,733	408,343	408,990
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,652,313</b>	<b>3,726,114</b>	<b>3,800,771</b>	<b>3,898,099</b>	<b>3,951,461</b>	<b>4,026,147</b>	<b>4,100,824</b>	<b>4,196,781</b>	<b>4,250,537</b>	<b>4,325,207</b>
Daily Baseload Therms	2,463	2,480	2,526	2,642	2,688	2,735	2,749	2,771	2,850	2,931
Peak Day Therms	35,317	36,041	36,766	36,517	37,223	38,950	39,674	40,409	41,134	40,762
Therms Per Residential Customer	574	582	591	603	608	616	624	635	640	647
Therms Per Commercial Customer	3,139	3,159	3,180	3,219	3,222	3,242	3,262	3,299	3,303	3,322
Therms Per Industrial Customer	12,601	12,618	12,638	12,730	12,680	12,700	12,720	12,804	12,761	12,781
Residential Customers	2,747	2,791	2,835	2,877	2,919	2,961	3,002	3,042	3,082	3,121
Commercial Customers	533	537	541	546	550	554	558	562	566	570
Industrial Customers	32	32	32	32	32	32	32	32	32	32
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>3,312</b>	<b>3,360</b>	<b>3,408</b>	<b>3,455</b>	<b>3,501</b>	<b>3,547</b>	<b>3,592</b>	<b>3,636</b>	<b>3,680</b>	<b>3,724</b>



**Appendix B  
Demand Forecast  
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Sedro-Woolley Loop</b>										
Total Thems Pct. Growth		0.77%	0.79%	1.23%	0.36%	0.79%	0.78%	1.19%	0.38%	0.78%
Residential Thems	16,642,680	16,794,574	16,929,359	17,141,257	17,203,580	17,341,481	17,480,229	17,620,520	17,760,547	17,902,395
Commercial Thems	9,423,327	9,501,914	9,582,201	9,704,400	9,745,633	9,827,778	9,910,427	10,032,820	10,077,512	10,162,009
Industrial Thems	1,069,269	1,069,137	1,069,136	1,072,912	1,069,269	1,069,269	1,072,649	1,072,649	1,069,269	1,069,269
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thems</b>	<b>27,155,276</b>	<b>27,365,625</b>	<b>27,580,696</b>	<b>27,918,569</b>	<b>28,018,482</b>	<b>28,238,528</b>	<b>28,459,923</b>	<b>28,797,989</b>	<b>28,907,328</b>	<b>29,133,672</b>
Daily Baseload Thems	25,662	25,782	24,587	24,181	26,450	26,574	26,699	25,903	26,345	25,066
Peak Day Thems	159,380	160,526	161,679	160,047	161,194	165,631	166,818	168,464	169,671	167,501
Thems Per Residential Customer	623	623	624	628	626	627	628	631	630	631
Thems Per Commercial Customer	2,823	2,833	2,845	2,868	2,868	2,880	2,891	2,915	2,915	2,927
Thems Per Industrial Customer	11,914	11,846	11,750	11,743	11,632	11,535	11,475	11,409	11,319	11,260
Residential Customers	26,752	26,938	27,123	27,307	27,489	27,671	27,851	28,030	28,208	28,384
Commercial Customers	3,338	3,354	3,369	3,383	3,398	3,413	3,428	3,442	3,457	3,471
Industrial Customers	90	90	91	91	92	93	93	94	94	95
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>30,180</b>	<b>30,382</b>	<b>30,582</b>	<b>30,782</b>	<b>30,979</b>	<b>31,176</b>	<b>31,371</b>	<b>31,566</b>	<b>31,759</b>	<b>31,951</b>
<b>South Hermiston</b>										
Total Thems Pct. Growth		-0.03%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%
Residential Thems	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822
Commercial Thems	9,194	9,193	9,194	9,258	9,191	9,192	9,194	9,258	9,191	9,192
Industrial Thems	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thems</b>	<b>27,489</b>	<b>27,482</b>	<b>27,485</b>	<b>27,651</b>	<b>27,479</b>	<b>27,482</b>	<b>27,484</b>	<b>27,652</b>	<b>27,480</b>	<b>27,482</b>
Daily Baseload Thems	6	6	6	6	6	6	6	6	6	6
Peak Day Thems	211	211	211	212	211	211	211	211	211	211
Thems Per Residential Customer	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228
Thems Per Commercial Customer	1,839	1,839	1,839	1,852	1,838	1,838	1,839	1,852	1,838	1,838
Thems Per Industrial Customer	8,473	8,468	8,469	8,524	8,466	8,468	8,469	8,525	8,467	8,468
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Stanfield</b>										
Total Thems Pct. Growth		1.95%	1.93%	2.43%	1.35%	1.83%	1.79%	2.24%	1.26%	1.70%
Residential Thems	225,165	230,568	236,006	242,716	246,941	252,380	257,819	264,522	268,717	274,156
Commercial Thems	81,334	81,922	82,521	83,537	83,732	84,332	84,932	85,923	86,131	86,730
Industrial Thems	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thems</b>	<b>306,499</b>	<b>312,490</b>	<b>318,527</b>	<b>326,254</b>	<b>330,674</b>	<b>336,712</b>	<b>342,751</b>	<b>350,445</b>	<b>354,848</b>	<b>360,887</b>
Daily Baseload Thems	128	129	132	135	138	141	142	140	145	149
Peak Day Thems	2,657	2,711	2,765	2,764	2,817	2,922	2,976	3,025	3,079	3,078
Thems Per Residential Customer	637	643	649	659	662	668	675	684	687	693
Thems Per Commercial Customer	2,280	2,257	2,241	2,237	2,214	2,202	2,191	2,188	2,164	2,151
Thems Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	354	359	363	368	373	378	382	387	391	396
Commercial Customers	36	36	37	37	38	38	39	39	40	40
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>389</b>	<b>395</b>	<b>400</b>	<b>406</b>	<b>411</b>	<b>416</b>	<b>421</b>	<b>426</b>	<b>431</b>	<b>436</b>
<b>Stearns (Sunriver)</b>										
Total Thems Pct. Growth		0.99%	0.98%	1.47%	0.47%	0.95%	0.95%	1.44%	0.43%	0.92%
Residential Thems	3,685,892	3,731,941	3,777,902	3,843,879	3,870,018	3,916,044	3,962,079	4,029,174	4,056,353	4,100,416
Commercial Thems	1,083,753	1,085,704	1,087,617	1,094,073	1,091,413	1,093,327	1,095,240	1,101,841	1,099,074	1,100,987
Industrial Thems	42,679	42,535	42,332	42,293	41,923	41,719	41,515	41,475	41,107	40,902
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thems</b>	<b>4,812,325</b>	<b>4,860,180</b>	<b>4,907,851</b>	<b>4,980,185</b>	<b>5,003,355</b>	<b>5,051,090</b>	<b>5,098,833</b>	<b>5,172,490</b>	<b>5,194,534</b>	<b>5,242,306</b>
Daily Baseload Thems	5,297	5,337	5,375	5,428	5,465	5,503	5,543	5,605	5,640	5,674
Peak Day Thems	39,599	40,004	40,408	40,942	41,347	41,661	42,065	42,510	42,915	43,414
Thems Per Residential Customer	972	979	985	996	997	1,002	1,008	1,020	1,020	1,026
Thems Per Commercial Customer	4,935	4,940	4,948	4,967	4,954	4,960	4,961	4,990	4,971	4,975
Thems Per Industrial Customer	14,226	14,178	14,111	14,098	13,974	13,906	13,838	13,825	13,702	13,634
Residential Customers	3,790	3,814	3,837	3,860	3,883	3,906	3,929	3,952	3,974	3,997
Commercial Customers	220	220	220	220	220	220	221	221	221	221
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,013</b>	<b>4,037</b>	<b>4,060</b>	<b>4,084</b>	<b>4,107</b>	<b>4,130</b>	<b>4,153</b>	<b>4,176</b>	<b>4,198</b>	<b>4,221</b>
<b>Sumas SPE Loop</b>										
Total Thems Pct. Growth		0.99%	1.02%	1.45%	0.62%	1.02%	1.02%	1.36%	0.68%	1.02%
Residential Thems	30,454,836	30,704,513	30,966,214	31,369,579	31,507,519	31,778,033	32,051,519	32,441,700	32,606,908	32,889,430
Commercial Thems	16,032,602	16,206,461	16,387,293	16,639,132	16,760,096	16,947,019	17,135,997	17,382,594	17,519,868	17,715,090
Industrial Thems	1,874,133	1,927,534	1,982,119	2,044,075	2,093,687	2,150,112	2,207,157	2,270,056	2,322,983	2,381,912
Ind., Inst., & Cncl. Interup. Thems	-	-	-	-	-	-	-	-	-	-
<b>Total Core Thems</b>	<b>48,361,571</b>	<b>48,838,507</b>	<b>49,335,626</b>	<b>50,052,786</b>	<b>50,361,302</b>	<b>50,875,164</b>	<b>51,394,673</b>	<b>52,094,350</b>	<b>52,449,759</b>	<b>52,986,432</b>
Daily Baseload Thems	27,518	27,801	28,086	28,455	28,698	28,997	29,296	29,595	29,894	30,193
Peak Day Thems	452,596	457,358	462,169	450,435	455,190	475,969	480,992	485,087	490,219	478,773
Thems Per Residential Customer	663	664	665	669	668	669	671	675	674	676
Thems Per Commercial Customer	2,930	2,933	2,937	2,954	2,948	2,954	2,960	2,977	2,974	2,982
Thems Per Industrial Customer	23,281	23,471	23,676	23,980	24,127	24,354	24,577	24,884	25,060	25,310
Residential Customers	45,945	46,257	46,566	46,875	47,181	47,485	47,788	48,089	48,389	48,687
Commercial Customers	5,472	5,526	5,579	5,632	5,685	5,737	5,788	5,840	5,891	5,941
Industrial Customers	81	82	84	85	87	88	90	91	93	94
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>51,498</b>	<b>51,865</b>	<b>52,229</b>	<b>52,592</b>	<b>52,952</b>	<b>53,310</b>	<b>53,666</b>	<b>54,020</b>	<b>54,372</b>	<b>54,722</b>

**Appendix B**  
**Demand Forecast**  
**Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Sunnyside</b>										
Total Therms Pct. Growth		1.52%	1.50%	1.93%	0.97%	1.37%	1.33%	1.70%	0.82%	1.19%
Residential Therms	1,027,287	1,043,124	1,058,997	1,080,293	1,090,347	1,105,539	1,120,430	1,140,232	1,149,120	1,162,964
Commercial Therms	1,664,281	1,691,029	1,717,836	1,752,479	1,770,813	1,796,469	1,821,618	1,853,846	1,870,101	1,893,483
Industrial Therms	622,992	630,747	638,556	648,604	654,039	661,513	668,840	678,034	682,974	689,796
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,314,561</b>	<b>3,364,900</b>	<b>3,415,389</b>	<b>3,481,376</b>	<b>3,515,199</b>	<b>3,563,521</b>	<b>3,610,888</b>	<b>3,672,211</b>	<b>3,702,195</b>	<b>3,746,234</b>
Daily BaseLoad Therms	2,482	2,503	2,540	2,613	2,643	2,678	2,707	2,729	2,781	2,825
Peak Day Therms	22,481	22,820	23,156	22,956	23,275	24,175	24,488	24,835	25,133	24,808
Therms Per Residential Customer	520	524	528	535	536	539	543	548	549	552
Therms Per Commercial Customer	3,101	3,126	3,149	3,189	3,198	3,220	3,240	3,273	3,279	3,297
Therms Per Industrial Customer	36,647	37,012	36,491	37,065	37,376	37,803	37,612	37,707	37,981	38,360
Residential Customers	1,976	1,991	2,006	2,021	2,036	2,050	2,065	2,080	2,094	2,108
Commercial Customers	537	541	546	550	554	558	562	566	570	574
Industrial Customers	17	17	17	17	17	17	18	18	18	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,529</b>	<b>2,549</b>	<b>2,569</b>	<b>2,588</b>	<b>2,607</b>	<b>2,626</b>	<b>2,645</b>	<b>2,664</b>	<b>2,682</b>	<b>2,701</b>
<b>Umatilla</b>										
Total Therms Pct. Growth		1.27%	1.25%	1.66%	0.81%	1.21%	1.19%	1.61%	0.74%	1.15%
Residential Therms	410,560	423,478	436,382	451,604	462,243	475,146	488,050	503,581	513,925	526,829
Commercial Therms	462,101	470,911	479,707	490,875	497,329	506,125	514,920	526,285	532,557	541,353
Industrial Therms	935,678	936,945	938,197	942,538	940,683	941,935	943,185	947,596	945,685	946,940
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>1,808,340</b>	<b>1,831,334</b>	<b>1,854,286</b>	<b>1,884,999</b>	<b>1,900,255</b>	<b>1,923,206</b>	<b>1,946,155</b>	<b>1,977,462</b>	<b>1,992,168</b>	<b>2,015,121</b>
Daily BaseLoad Therms	2,213	2,233	2,251	2,260	2,278	2,297	2,317	2,339	2,346	2,363
Peak Day Therms	10,454	10,618	10,781	11,008	11,172	11,288	11,451	11,632	11,795	12,009
Therms Per Residential Customer	439	444	450	458	461	467	472	480	483	488
Therms Per Commercial Customer	3,211	3,242	3,272	3,315	3,327	3,355	3,385	3,431	3,441	3,468
Therms Per Industrial Customer	133,668	133,849	134,028	134,468	134,383	134,562	134,741	135,371	135,098	135,277
Residential Customers	936	953	969	986	1,002	1,018	1,034	1,049	1,064	1,079
Commercial Customers	144	145	147	148	149	151	152	153	155	156
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,087</b>	<b>1,105</b>	<b>1,123</b>	<b>1,141</b>	<b>1,159</b>	<b>1,176</b>	<b>1,193</b>	<b>1,210</b>	<b>1,226</b>	<b>1,243</b>
<b>Walla Walla</b>										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	6,650,238	6,748,586	6,837,885	6,959,544	7,015,378	7,104,680	7,190,522	7,304,694	7,355,195	7,435,071
Commercial Therms	6,060,912	6,120,532	6,174,008	6,254,773	6,280,537	6,333,936	6,384,910	6,459,309	6,482,063	6,528,842
Industrial Therms	193,806	200,287	206,306	213,172	218,280	224,315	230,184	236,763	241,582	247,170
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>12,904,956</b>	<b>13,069,404</b>	<b>13,218,200</b>	<b>13,427,490</b>	<b>13,514,195</b>	<b>13,662,931</b>	<b>13,805,616</b>	<b>14,000,767</b>	<b>14,078,840</b>	<b>14,211,882</b>
Daily BaseLoad Therms	10,603	10,669	10,779	10,981	11,103	11,226	11,271	11,306	11,459	11,610
Peak Day Therms	148,073	150,073	151,862	151,350	153,089	157,146	158,862	160,477	162,112	161,221
Therms Per Residential Customer	563	567	570	576	576	579	586	586	588	588
Therms Per Commercial Customer	4,563	4,573	4,580	4,607	4,594	4,601	4,608	4,631	4,637	4,621
Therms Per Industrial Customer	10,200	10,495	10,581	10,865	10,923	10,964	11,230	11,316	11,484	11,563
Residential Customers	11,804	11,902	11,997	12,092	12,186	12,279	12,371	12,462	12,552	12,642
Commercial Customers	1,328	1,338	1,348	1,358	1,367	1,377	1,386	1,395	1,404	1,413
Industrial Customers	19	19	19	20	20	20	20	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,151</b>	<b>13,259</b>	<b>13,364</b>	<b>13,469</b>	<b>13,573</b>	<b>13,676</b>	<b>13,777</b>	<b>13,878</b>	<b>13,977</b>	<b>14,076</b>
<b>Wenatchee</b>										
Total Therms Pct. Growth		0.77%	0.89%	1.40%	0.38%	0.84%	0.84%	1.28%	0.44%	0.85%
Residential Therms	548,325	572,889	577,427	585,585	587,320	592,061	596,802	604,277	606,305	611,046
Commercial Therms	3,486,570	3,505,168	3,528,957	3,571,119	3,577,423	3,600,356	3,623,584	3,662,974	3,672,162	3,696,640
Industrial Therms	343,348	353,991	364,731	377,195	386,369	397,116	407,862	420,162	429,391	440,137
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,398,253</b>	<b>4,432,048</b>	<b>4,471,315</b>	<b>4,533,900</b>	<b>4,551,112</b>	<b>4,589,533</b>	<b>4,628,247</b>	<b>4,687,412</b>	<b>4,707,858</b>	<b>4,747,842</b>
Daily BaseLoad Therms	3,964	3,953	3,993	4,108	4,148	4,187	4,179	4,150	4,240	4,331
Peak Day Therms	30,727	30,946	31,192	29,993	30,224	31,987	32,229	32,544	32,794	31,457
Therms Per Residential Customer	413	414	414	417	416	417	418	420	419	420
Therms Per Commercial Customer	5,036	5,039	5,051	5,089	5,076	5,086	5,097	5,130	5,122	5,134
Therms Per Industrial Customer	23,816	24,067	24,798	25,088	25,429	26,136	26,164	26,821	27,015	27,304
Residential Customers	1,376	1,385	1,394	1,403	1,412	1,420	1,429	1,438	1,446	1,455
Commercial Customers	692	696	699	702	705	708	711	714	717	720
Industrial Customers	14	15	15	15	15	15	16	16	16	16
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,083</b>	<b>2,095</b>	<b>2,107</b>	<b>2,120</b>	<b>2,132</b>	<b>2,143</b>	<b>2,156</b>	<b>2,167</b>	<b>2,179</b>	<b>2,191</b>
<b>Woodland</b>										
Total Therms Pct. Growth		3.32%	3.29%	3.73%	2.64%	3.00%	2.91%	3.12%	2.47%	2.68%
Residential Therms	428,113	445,867	463,916	484,578	500,450	518,537	536,628	556,545	572,856	590,963
Commercial Therms	751,524	767,402	783,998	805,309	818,091	834,734	851,381	870,612	884,739	901,404
Industrial Therms	655,595	682,841	710,574	741,742	766,759	794,534	822,308	852,062	877,923	905,698
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>1,835,232</b>	<b>1,896,111</b>	<b>1,958,488</b>	<b>2,031,630</b>	<b>2,085,299</b>	<b>2,147,804</b>	<b>2,210,317</b>	<b>2,279,219</b>	<b>2,335,518</b>	<b>2,398,065</b>
Daily BaseLoad Therms	2,156	2,216	1,928	1,913	2,641	2,524	2,610	2,276	2,779	2,282
Peak Day Therms	12,857	13,289	13,722	12,468	12,850	15,019	15,452	15,884	16,317	14,765
Therms Per Residential Customer	559	572	584	599	608	620	631	644	653	664
Therms Per Commercial Customer	3,301	3,326	3,352	3,397	3,409	3,434	3,460	3,498	3,511	3,538
Therms Per Industrial Customer	36,762	38,024	38,590	39,418	40,492	41,023	41,631	42,892	43,295	43,870
Residential Customers	765	780	795	809	823	837	850	864	877	890
Commercial Customers	228	231	234	237	240	243	246	249	252	255
Industrial Customers	18	18	18	19	19	19	20	20	20	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,011</b>	<b>1,029</b>	<b>1,047</b>	<b>1,065</b>	<b>1,082</b>	<b>1,099</b>	<b>1,116</b>	<b>1,132</b>	<b>1,149</b>	<b>1,165</b>

**Appendix B  
Demand Forecast  
Low Scenario**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Yakima Chief Ranch</b>										
Total Therms Pct. Growth		-0.03%	-0.02%	0.11%	-0.05%	-0.04%	-0.03%	0.13%	-0.05%	-0.04%
Residential Therms	319,284	319,193	319,127	319,474	319,308	319,180	319,070	319,489	319,327	319,194
Commercial Therms	-	-	-	-	-	-	-	-	-	-
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	319,284	319,193	319,127	319,474	319,308	319,180	319,070	319,489	319,327	319,194
Daily BaseLoad Therms	-	-	-	-	-	-	-	-	-	-
Peak Day Therms	-	-	-	-	-	-	-	-	-	-
Therms Per Residential Customer	159,642	159,596	159,564	159,737	159,654	159,590	159,535	159,745	159,664	159,597
Therms Per Commercial Customer	-	-	-	-	-	-	-	-	-	-
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	2	2	2	2	2	2	2	2	2	2
Commercial Customers	-	-	-	-	-	-	-	-	-	-
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	2	2	2	2	2	2	2	2	2	2

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Yakima Loop</b>										
Total Therms Pct. Growth		1.84%	1.82%	2.31%	1.21%	1.65%	1.60%	1.98%	1.03%	1.42%
Residential Therms	12,318,093	12,509,337	12,702,382	12,964,674	13,085,446	13,270,228	13,451,354	13,692,405	13,800,642	13,969,040
Commercial Therms	12,520,629	12,741,709	12,964,454	13,254,489	13,406,220	13,619,431	13,828,426	14,093,961	14,231,324	14,425,634
Industrial Therms	3,051,905	3,154,040	3,255,987	3,372,510	3,457,747	3,555,339	3,651,000	3,751,310	3,835,425	3,924,265
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	27,890,626	28,405,086	28,922,823	29,591,674	29,949,413	30,444,998	30,930,780	31,543,676	31,867,390	32,319,039
Daily BaseLoad Therms	18,906	19,033	19,417	20,307	20,430	20,993	21,151	21,167	21,812	22,458
Peak Day Therms	244,094	248,492	252,852	248,598	252,703	265,743	269,827	273,970	277,862	272,046
Therms Per Residential Customer	625	631	636	645	646	651	656	663	664	668
Therms Per Commercial Customer	3,510	3,544	3,578	3,631	3,645	3,706	3,766	3,750	3,760	3,785
Therms Per Industrial Customer	34,259	34,883	35,479	36,206	36,542	37,082	37,592	38,204	38,539	38,965
Residential Customers	19,696	19,835	19,973	20,111	20,247	20,383	20,517	20,651	20,784	20,916
Commercial Customers	3,567	3,595	3,623	3,651	3,678	3,705	3,732	3,759	3,785	3,811
Industrial Customers	89	90	92	93	95	96	97	98	100	101
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	23,352	23,521	23,688	23,855	24,020	24,184	24,346	24,508	24,669	24,829

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Yakima Training Center</b>										
Total Therms Pct. Growth		0.62%	0.62%	1.22%	0.00%	0.58%	0.57%	1.13%	-0.05%	0.52%
Residential Therms	17,373	17,714	18,054	18,494	18,727	19,053	19,372	19,785	19,988	20,286
Commercial Therms	333,068	334,897	336,734	340,610	340,329	342,133	343,855	347,558	347,171	348,780
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	350,441	352,611	354,788	359,104	359,106	361,186	363,227	367,343	367,159	369,066
Daily BaseLoad Therms	42	43	44	42	42	43	45	44	45	45
Peak Day Therms	3,343	3,364	3,385	3,377	3,397	3,445	3,464	3,462	3,501	3,490
Therms Per Residential Customer	750	751	760	768	769	776	775	789	784	794
Therms Per Commercial Customer	3,067	3,072	3,085	3,111	3,100	3,109	3,118	3,145	3,134	3,142
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	23	24	24	24	24	25	25	25	25	26
Commercial Customers	109	109	109	109	110	110	110	111	111	111
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	132	133	133	134	134	135	135	136	136	137

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Zillah (Toppenish)</b>										
Total Therms Pct. Growth		0.78%	0.87%	1.43%	0.36%	0.81%	0.79%	1.02%	0.48%	0.72%
Residential Therms	997,133	1,003,407	1,010,423	1,023,577	1,025,546	1,032,267	1,039,152	1,048,781	1,051,978	1,059,229
Commercial Therms	1,846,433	1,869,074	1,893,510	1,929,125	1,943,636	1,967,046	1,989,992	2,017,854	2,034,229	2,055,544
Industrial Therms	743,937	743,178	743,149	746,940	743,908	743,908	743,941	745,413	743,908	743,908
Ind., Inst., & Cmcl. Interup. Therms	63,344	63,681	64,090	64,605	64,815	65,169	65,564	65,933	66,297	66,625
<b>Total Core Therms</b>	3,650,847	3,679,340	3,711,171	3,764,247	3,777,904	3,808,389	3,838,649	3,877,981	3,896,413	3,924,326
Daily BaseLoad Therms	2,712	2,754	2,791	2,839	2,874	2,927	2,974	3,022	3,070	3,118
Peak Day Therms	32,347	32,635	32,921	29,337	29,583	33,804	34,071	34,380	34,634	30,778
Therms Per Residential Customer	519	520	522	526	525	527	528	531	531	530
Therms Per Commercial Customer	3,555	3,574	3,596	3,639	3,643	3,662	3,681	3,709	3,716	3,732
Therms Per Industrial Customer	30,997	30,966	30,333	30,487	30,364	30,314	30,314	29,830	29,770	29,770
Residential Customers	1,920	1,928	1,936	1,944	1,952	1,960	1,968	1,976	1,984	1,992
Commercial Customers	519	523	527	530	534	537	541	544	547	551
Industrial Customers	24	24	25	25	25	25	25	25	25	25
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	2,464	2,476	2,488	2,500	2,511	2,523	2,534	2,546	2,557	2,568

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Zone 10</b>										
Total Therms Pct. Growth		2.39%	2.37%	2.75%	1.83%	2.12%	2.04%	2.21%	1.62%	1.79%
Residential Therms	3,149,219	3,178,476	3,208,875	3,255,100	3,271,037	3,300,166	3,329,077	3,368,516	3,384,865	3,411,616
Commercial Therms	6,093,793	6,319,083	6,546,168	6,800,262	6,997,895	7,215,876	7,429,592	7,654,336	7,841,939	8,040,932
Industrial Therms	1,636,566	1,643,397	1,651,175	1,666,170	1,667,576	1,675,049	1,682,409	1,693,756	1,696,509	1,703,324
Ind., Inst., & Cmcl. Interup. Therms	63,344	63,681	64,090	64,605	64,815	65,169	65,564	65,933	66,297	66,625
<b>Total Core Therms</b>	10,942,922	11,204,636	11,470,308	11,786,137	12,001,323	12,256,259	12,506,642	12,762,541	12,989,611	13,222,497
Daily BaseLoad Therms	7,760	7,954	7,110	7,409	7,609	8,758	8,933	8,297	9,656	8,753
Peak Day Therms	73,041	74,222	75,389	69,275	70,238	78,965	80,058	81,300	82,338	74,911
Therms Per Residential Customer	587	589	592	597	597	599	601	605	605	606
Therms Per Commercial Customer	4,388	4,516	4,643	4,790	4,895	5,013	5,125	5,244	5,338	5,438
Therms Per Industrial Customer	28,217	28,314	27,987	28,241	28,265	28,391	28,360	28,243	28,289	28,403
Residential Customers	5,361	5,392	5,422	5,452	5,482	5,511	5,541	5,570	5,599	5,628
Commercial Customers	1,389	1,399	1,410	1,420	1,430	1,439	1,450	1,460	1,469	1,479
Industrial Customers	58	58	59	59	59	59	59	60	60	60
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	6,809	6,850	6,892	6,931	6,971	7,011	7,051	7,090	7,129	7,167



**Appendix B  
Demand Forecast  
Low Scenario**

Zone 11	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.67%	1.66%	2.14%	1.07%	1.52%	1.47%	1.85%	0.93%	1.32%
Residential Therms	13,539,855	13,747,245	13,956,671	14,241,824	14,372,438	14,573,108	14,749,897	15,032,144	15,149,719	15,333,013
Commercial Therms	17,522,209	17,802,985	18,089,113	18,467,921	18,655,735	18,929,882	19,198,998	19,546,831	19,721,551	19,974,440
Industrial Therms	4,126,899	4,225,234	4,323,656	4,439,802	4,519,006	4,613,415	4,706,081	4,812,595	4,885,486	4,972,278
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>35,188,963</b>	<b>35,775,464</b>	<b>36,349,441</b>	<b>37,149,547</b>	<b>37,547,179</b>	<b>38,116,405</b>	<b>38,674,977</b>	<b>39,391,570</b>	<b>39,756,755</b>	<b>40,279,931</b>
Daily BaseLoad Therms	24,448	24,614	25,114	26,225	26,621	26,891	27,063	27,113	27,995	28,755
Peak Day Therms	292,593	297,501	302,388	296,807	301,401	316,995	321,578	326,404	330,788	323,325
Therms Per Residential Customer	609	614	618	627	628	632	637	644	644	648
Therms Per Commercial Customer	3,886	3,919	3,953	4,007	4,019	4,050	4,079	4,125	4,134	4,160
Therms Per Industrial Customer	33,873	34,201	34,618	35,058	35,218	35,594	35,845	36,273	36,405	36,652
Residential Customers	22,241	22,404	22,566	22,727	22,887	23,045	23,202	23,358	23,513	23,667
Commercial Customers	4,509	4,543	4,576	4,609	4,642	4,674	4,706	4,738	4,770	4,802
Industrial Customers	122	124	125	127	128	130	131	133	134	136
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>26,872</b>	<b>27,070</b>	<b>27,267</b>	<b>27,463</b>	<b>27,657</b>	<b>27,849</b>	<b>28,040</b>	<b>28,230</b>	<b>28,418</b>	<b>28,604</b>
<b>Zone 20</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		2.02%	1.86%	2.34%	1.32%	1.80%	1.74%	2.16%	1.21%	1.64%
Residential Therms	16,577,727	16,968,029	17,334,467	17,796,122	18,073,534	18,448,607	18,818,039	19,274,497	19,544,732	19,906,328
Commercial Therms	18,678,161	19,014,067	19,330,126	19,741,074	19,969,892	20,292,868	20,611,745	21,019,430	21,246,625	21,564,261
Industrial Therms	929,921	938,507	946,821	959,364	964,675	973,728	982,934	995,491	1,001,351	1,010,767
Ind., Inst., & Cmcl. Interup. Therms	275,862	275,829	275,829	277,014	275,862	275,862	276,947	276,947	275,862	275,862
<b>Total Core Therms</b>	<b>36,461,671</b>	<b>37,196,432</b>	<b>37,887,243</b>	<b>38,773,574</b>	<b>39,303,964</b>	<b>39,991,065</b>	<b>40,689,581</b>	<b>41,566,866</b>	<b>42,068,571</b>	<b>42,757,219</b>
Daily BaseLoad Therms	31,792	32,305	32,348	32,888	34,094	34,644	35,169	35,202	36,068	36,085
Peak Day Therms	293,683	299,185	304,330	303,644	308,744	320,645	325,844	331,738	336,911	334,856
Therms Per Residential Customer	524	528	531	538	538	542	545	551	551	555
Therms Per Commercial Customer	4,137	4,164	4,188	4,233	4,238	4,263	4,288	4,331	4,337	4,362
Therms Per Industrial Customer	22,681	22,890	22,815	23,117	23,245	23,463	23,685	24,000	23,854	24,078
Residential Customers	31,613	32,122	32,619	33,109	33,591	34,066	34,533	34,994	35,447	35,894
Commercial Customers	4,515	4,566	4,616	4,664	4,712	4,760	4,807	4,853	4,899	4,944
Industrial Customers	41	41	42	42	42	42	42	42	42	42
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>36,171</b>	<b>36,731</b>	<b>37,278</b>	<b>37,816</b>	<b>38,346</b>	<b>38,869</b>	<b>39,383</b>	<b>39,891</b>	<b>40,390</b>	<b>40,882</b>
<b>Zone 24</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.05%	1.05%	1.56%	0.54%	1.03%	1.02%	1.47%	0.55%	0.99%
Residential Therms	4,256,094	4,297,971	4,340,442	4,406,443	4,426,201	4,468,382	4,510,379	4,574,301	4,594,284	4,635,920
Commercial Therms	3,990,310	4,037,129	4,084,588	4,153,503	4,180,484	4,227,988	4,275,515	4,343,254	4,370,822	4,418,389
Industrial Therms	590,847	604,221	617,641	633,178	644,891	659,033	673,589	689,977	703,564	718,954
Ind., Inst., & Cmcl. Interup. Therms	868,088	867,967	867,968	872,356	868,088	868,090	868,091	872,111	868,088	868,090
<b>Total Core Therms</b>	<b>9,705,339</b>	<b>9,807,289</b>	<b>9,910,640</b>	<b>10,065,480</b>	<b>10,119,665</b>	<b>10,223,492</b>	<b>10,327,575</b>	<b>10,479,643</b>	<b>10,536,759</b>	<b>10,641,353</b>
Daily BaseLoad Therms	5,664	5,726	5,799	5,883	5,923	5,977	6,037	6,093	6,189	6,269
Peak Day Therms	79,865	80,668	81,471	80,647	81,430	84,024	84,826	85,779	86,582	85,496
Therms Per Residential Customer	577	580	582	588	588	590	593	599	598	601
Therms Per Commercial Customer	2,496	2,711	2,726	2,757	2,759	2,775	2,790	2,818	2,821	2,837
Therms Per Industrial Customer	22,226	22,448	22,568	22,866	23,025	23,237	23,399	23,749	23,937	24,186
Residential Customers	7,374	7,413	7,452	7,491	7,529	7,567	7,605	7,643	7,680	7,717
Commercial Customers	1,480	1,489	1,498	1,507	1,515	1,524	1,533	1,541	1,549	1,558
Industrial Customers	27	27	27	28	28	28	29	29	29	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>8,882</b>	<b>8,930</b>	<b>8,979</b>	<b>9,026</b>	<b>9,074</b>	<b>9,121</b>	<b>9,168</b>	<b>9,214</b>	<b>9,259</b>	<b>9,305</b>
<b>Zone 26</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.76%	1.77%	2.16%	1.35%	1.68%	1.66%	1.92%	1.32%	1.58%
Residential Therms	1,540,294	1,607,647	1,655,594	1,711,078	1,752,412	1,800,397	1,848,381	1,902,399	1,944,507	1,992,485
Commercial Therms	5,468,773	5,538,143	5,609,561	5,703,673	5,754,991	5,826,486	5,897,987	5,986,499	6,041,279	6,112,798
Industrial Therms	844,041	867,686	891,875	920,078	940,998	965,241	989,487	1,016,109	1,038,028	1,062,290
Ind., Inst., & Cmcl. Interup. Therms	84,315	84,277	84,271	84,590	84,260	84,287	84,319	84,553	84,291	84,274
<b>Total Core Therms</b>	<b>7,957,423</b>	<b>8,097,753</b>	<b>8,241,301</b>	<b>8,419,358</b>	<b>8,532,661</b>	<b>8,676,411</b>	<b>8,820,174</b>	<b>8,989,561</b>	<b>9,108,104</b>	<b>9,251,847</b>
Daily BaseLoad Therms	7,326	7,453	7,579	7,602	7,622	7,642	7,662	7,682	7,619	7,684
Peak Day Therms	70,235	71,435	72,634	70,443	71,570	76,339	77,537	78,847	80,046	77,310
Therms Per Residential Customer	498	505	512	521	526	533	540	549	554	560
Therms Per Commercial Customer	4,352	4,369	4,388	4,424	4,427	4,446	4,465	4,497	4,503	4,521
Therms Per Industrial Customer	25,707	26,327	26,692	27,207	27,729	28,085	28,473	29,144	29,424	29,802
Residential Customers	3,134	3,184	3,233	3,282	3,329	3,376	3,422	3,468	3,513	3,557
Commercial Customers	1,257	1,268	1,278	1,289	1,300	1,310	1,321	1,331	1,342	1,352
Industrial Customers	33	33	33	34	34	34	35	35	35	36
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>4,425</b>	<b>4,485</b>	<b>4,546</b>	<b>4,606</b>	<b>4,664</b>	<b>4,722</b>	<b>4,779</b>	<b>4,835</b>	<b>4,891</b>	<b>4,946</b>
<b>Zone 30-S</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.41%	1.39%	1.82%	0.93%	1.34%	1.32%	1.71%	0.89%	1.27%
Residential Therms	24,562,898	24,935,598	25,310,968	25,802,176	26,066,288	26,441,763	26,817,240	27,206,131	27,569,703	27,945,192
Commercial Therms	14,904,161	15,113,394	15,323,577	15,599,884	15,747,149	15,957,330	16,167,572	16,440,557	16,588,922	16,799,242
Industrial Therms	625,377	628,796	632,314	638,518	639,473	642,996	646,520	652,488	653,383	657,110
Ind., Inst., & Cmcl. Interup. Therms	1,590,071	1,592,329	1,592,392	1,598,639	1,592,517	1,592,516	1,592,516	1,598,393	1,592,517	1,592,516
<b>Total Core Therms</b>	<b>41,682,507</b>	<b>42,270,117</b>	<b>42,859,251</b>	<b>43,639,218</b>	<b>44,045,427</b>	<b>44,634,606</b>	<b>45,223,848</b>	<b>45,997,570</b>	<b>46,404,725</b>	<b>46,994,040</b>
Daily BaseLoad Therms	36,741	37,272	36,793	37,359	38,709	39,205	39,735	39,292	40,487	40,302
Peak Day Therms	319,549	324,116	328,659	328,258	332,741	342,573	347,114	351,948	356,491	355,428
Therms Per Residential Customer	649	654	658	666	667	672	676	684	685	690
Therms Per Commercial Customer	3,826	3,851	3,876	3,917	3,926	3,951	3,975	4,015	4,024	4,048
Therms Per Industrial Customer	22,335	22,457	22,583	22,804	22,838	22,964	23,090	23,303	23,342	23,468
Residential Customers	37,851	38,156	38,459	38,761	39,059	39,355	39,649	39,941	40,231	40,518
Commercial Customers	3,896	3,925	3,954	3,982	4,011	4,039	4,067	4,095	4,123	4,150
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>41,777</b>	<b>42,111</b>	<b>42,443</b>	<b>42,773</b>	<b>43,100</b>	<b>43,424</b>	<b>43,746</b>	<b>44,066</b>	<b>44,383</b>	<b>44,698</b>

Appendix B  
Demand Forecast  
Low Scenario

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Zone 30-W</b>										
Total Therms Pct. Growth		0.95%	0.97%	1.40%	0.55%	0.97%	0.96%	1.33%	0.59%	0.96%
Residential Therms	55,556,744	56,026,514	56,511,494	57,254,098	57,504,389	58,004,188	58,505,709	59,233,639	59,520,034	60,033,596
Commercial Therms	30,917,417	31,249,658	31,588,037	32,064,281	32,281,507	32,629,573	32,980,020	33,460,519	33,688,244	34,046,732
Industrial Therms	3,810,125	3,869,420	3,929,801	4,004,673	4,053,592	4,116,144	4,179,277	4,254,532	4,307,235	4,372,208
Ind., Inst., & Cmcl. Interrup. Therms	79,287	79,291	79,291	79,565	79,297	79,297	79,297	79,553	79,297	79,297
<b>Total Core Therms</b>	<b>90,363,573</b>	<b>91,224,883</b>	<b>92,108,623</b>	<b>93,402,616</b>	<b>93,920,785</b>	<b>94,829,201</b>	<b>95,744,302</b>	<b>97,018,243</b>	<b>97,594,910</b>	<b>98,531,833</b>
Daily BaseLoad Therms	66,946	67,580	68,216	68,853	69,490	70,127	70,764	71,401	72,038	72,675
Peak Day Therms	726,836	734,054	741,302	748,550	755,800	763,050	770,300	777,550	784,800	792,050
Therms Per Residential Customer	644	645	646	647	648	649	650	651	652	653
Therms Per Commercial Customer	2,949	2,957	2,966	2,975	2,984	2,993	3,002	3,011	3,020	3,029
Therms Per Industrial Customer	18,746	18,841	18,936	19,031	19,126	19,221	19,316	19,411	19,506	19,601
Residential Customers	86,288	86,862	87,436	88,010	88,584	89,158	89,732	90,306	90,880	91,454
Commercial Customers	10,484	10,568	10,652	10,736	10,820	10,904	10,988	11,072	11,156	11,240
Industrial Customers	203	205	207	209	211	213	215	217	219	221
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>96,977</b>	<b>97,636</b>	<b>98,295</b>	<b>98,954</b>	<b>99,613</b>	<b>100,272</b>	<b>100,931</b>	<b>101,590</b>	<b>102,249</b>	<b>102,908</b>
<b>Zone GTN</b>										
Total Therms Pct. Growth		2.53%	2.46%	2.95%	1.82%	2.29%	2.24%	2.70%	1.66%	2.10%
Residential Therms	36,925,632	38,060,802	39,195,972	40,550,500	41,477,924	42,615,293	43,752,662	45,115,697	46,032,482	47,170,813
Commercial Therms	20,909,782	21,237,425	21,565,068	21,990,892	22,198,815	22,518,351	22,838,084	23,269,646	23,479,698	23,999,943
Industrial Therms	2,899,072	2,981,782	3,065,076	3,164,103	3,233,041	3,316,677	3,400,336	3,498,494	3,561,898	3,651,646
Ind., Inst., & Cmcl. Interrup. Therms	278,365	278,292	278,219	278,228	278,266	278,305	278,344	278,383	278,422	278,461
<b>Total Core Therms</b>	<b>61,012,851</b>	<b>62,558,301</b>	<b>64,094,775</b>	<b>65,985,324</b>	<b>67,189,146</b>	<b>68,728,688</b>	<b>70,269,480</b>	<b>72,163,519</b>	<b>73,358,413</b>	<b>74,900,917</b>
Daily BaseLoad Therms	49,720	51,026	52,315	53,499	54,713	55,963	57,016	58,384	59,726	60,789
Peak Day Therms	583,744	598,590	613,410	618,238	632,842	658,121	672,981	688,000	702,891	706,117
Therms Per Residential Customer	729	740	751	766	773	783	793	808	814	824
Therms Per Commercial Customer	2,972	2,994	3,015	3,052	3,058	3,079	3,099	3,135	3,140	3,161
Therms Per Industrial Customer	26,040	26,378	26,761	27,280	27,521	27,879	28,229	28,731	28,996	29,352
Residential Customers	50,620	51,404	52,175	52,935	53,684	54,422	55,150	55,869	56,578	57,279
Commercial Customers	7,036	7,092	7,149	7,205	7,259	7,314	7,369	7,423	7,477	7,530
Industrial Customers	111	113	115	116	117	119	120	122	123	124
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>57,768</b>	<b>58,610</b>	<b>59,439</b>	<b>60,257</b>	<b>61,061</b>	<b>61,856</b>	<b>62,640</b>	<b>63,415</b>	<b>64,179</b>	<b>64,934</b>
<b>Zone ME-OR</b>										
Total Therms Pct. Growth		1.11%	1.12%	1.61%	0.62%	1.08%	1.07%	1.50%	0.62%	1.04%
Residential Therms	5,849,793	5,936,207	6,023,912	6,144,543	6,201,171	6,288,896	6,376,691	6,494,868	6,552,748	6,640,415
Commercial Therms	6,430,252	6,503,685	6,578,466	6,685,868	6,729,804	6,804,589	6,879,419	6,983,838	7,029,476	7,104,219
Industrial Therms	1,308,214	1,314,028	1,319,923	1,330,969	1,331,758	1,337,637	1,343,527	1,354,398	1,355,375	1,361,235
Ind., Inst., & Cmcl. Interrup. Therms	1,311,050	1,310,734	1,310,734	1,316,381	1,311,050	1,311,050	1,311,050	1,315,747	1,311,050	1,311,050
<b>Total Core Therms</b>	<b>14,899,309</b>	<b>15,064,654</b>	<b>15,233,035</b>	<b>15,477,761</b>	<b>15,573,784</b>	<b>15,742,173</b>	<b>15,910,689</b>	<b>16,148,851</b>	<b>16,248,650</b>	<b>16,416,921</b>
Daily BaseLoad Therms	13,548	13,690	13,780	13,914	14,045	14,187	14,337	14,433	14,639	14,691
Peak Day Therms	129,251	130,682	132,111	130,499	131,888	136,637	138,063	139,741	141,168	139,609
Therms Per Residential Customer	513	516	519	525	526	529	532	537	538	541
Therms Per Commercial Customer	3,390	3,407	3,424	3,457	3,458	3,475	3,492	3,524	3,526	3,543
Therms Per Industrial Customer	49,837	49,353	49,392	49,806	49,835	49,431	49,401	50,002	50,038	49,943
Residential Customers	11,398	11,499	11,600	11,699	11,798	11,895	11,991	12,087	12,182	12,276
Commercial Customers	1,897	1,909	1,921	1,934	1,946	1,958	1,970	1,982	1,994	2,005
Industrial Customers	26	27	27	27	27	27	27	27	27	27
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>13,324</b>	<b>13,437</b>	<b>13,550</b>	<b>13,662</b>	<b>13,772</b>	<b>13,882</b>	<b>13,990</b>	<b>14,098</b>	<b>14,204</b>	<b>14,311</b>
<b>Zone ME-WA</b>										
Total Therms Pct. Growth		1.27%	1.14%	1.58%	0.65%	1.10%	1.04%	1.41%	0.56%	0.94%
Residential Therms	6,650,238	6,740,586	6,837,885	6,959,544	7,015,378	7,104,680	7,190,522	7,304,694	7,355,195	7,435,017
Commercial Therms	6,060,912	6,120,532	6,174,008	6,254,773	6,280,537	6,333,936	6,384,910	6,459,309	6,482,063	6,528,842
Industrial Therms	193,806	200,287	206,306	213,172	218,280	224,315	230,184	236,763	241,582	247,170
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>12,904,956</b>	<b>13,069,404</b>	<b>13,218,200</b>	<b>13,427,490</b>	<b>13,514,195</b>	<b>13,662,931</b>	<b>13,805,616</b>	<b>14,000,767</b>	<b>14,078,840</b>	<b>14,211,082</b>
Daily BaseLoad Therms	10,603	10,669	10,779	10,981	11,103	11,226	11,271	11,306	11,459	11,610
Peak Day Therms	148,072	150,073	151,862	151,350	153,089	157,146	158,862	160,477	162,112	161,321
Therms Per Residential Customer	563	567	570	576	576	579	581	586	586	588
Therms Per Commercial Customer	4,563	4,573	4,580	4,607	4,594	4,601	4,608	4,631	4,617	4,621
Therms Per Industrial Customer	10,200	10,495	10,581	10,865	10,923	10,964	11,230	11,316	11,484	11,563
Residential Customers	11,804	11,902	11,997	12,092	12,186	12,279	12,371	12,462	12,552	12,642
Commercial Customers	1,328	1,338	1,348	1,358	1,367	1,377	1,386	1,395	1,404	1,413
Industrial Customers	19	19	19	20	20	20	20	21	21	21
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>13,151</b>	<b>13,259</b>	<b>13,364</b>	<b>13,469</b>	<b>13,573</b>	<b>13,676</b>	<b>13,777</b>	<b>13,878</b>	<b>13,977</b>	<b>14,076</b>
<b>Oregon</b>										
Total Therms Pct. Growth		2.12%	2.07%	2.57%	1.48%	1.95%	1.92%	2.37%	1.31%	1.81%
Residential Therms	47,031,519	48,294,980	49,560,163	51,101,487	52,105,297	53,372,571	54,639,964	56,184,866	57,179,515	58,447,148
Commercial Therms	31,330,343	31,778,239	32,218,652	32,830,263	33,109,104	33,550,928	33,993,019	34,996,738	34,879,996	35,322,551
Industrial Therms	4,798,133	4,900,032	5,002,640	5,128,250	5,209,690	5,313,347	5,417,453	5,542,869	5,626,838	5,731,835
Ind., Inst., & Cmcl. Interrup. Therms	2,657,504	2,656,993	2,656,994	2,668,566	2,657,504	2,657,506	2,657,508	2,657,539	2,657,504	2,657,506
<b>Total Core Therms</b>	<b>85,617,499</b>	<b>87,430,244</b>	<b>89,238,450</b>	<b>91,528,546</b>	<b>92,881,595</b>	<b>94,694,352</b>	<b>96,507,943</b>	<b>98,792,012</b>	<b>100,143,852</b>	<b>101,959,040</b>
Daily BaseLoad Therms	68,932	70,441	71,793	73,296	74,441	75,827	77,389	78,909	80,554	81,749
Peak Day Therms	792,860	809,940	826,992	829,384	846,160	878,783	895,870	913,540	930,641	930,883
Therms Per Residential Customer	687	696	705	709	714	722	731	743	748	756
Therms Per Commercial Customer	3,009	3,029	3,049	3,084	3,088	3,108	3,127	3,161	3,165	3,184
Therms Per Industrial Customer	29,227	29,415	29,667	30,095	30,252	30,468	30,723	31,156	31,342	31,576
Residential Customers	69,393	70,317	71,226	72,125	73,010	73,884	74,746	75,599	76,440	77,272
Commercial Customers	10,413	10,491	10,568	10,645	10,721	10,796	10,871	10,946	11,019	11,093
Industrial Customers	164	167	169	170	172	174	176	178	180	182
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	<b>79,974</b>	<b>80,978</b>	<b>81,967</b>	<b>82,945</b>	<b>83,907</b>	<b>84,858</b>	<b>85,798</b>	<b>86,727</b>	<b>87,643</b>	<b>88,550</b>

**Appendix B  
Demand Forecast  
Low Scenario**

Washington	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Therms Pct. Growth		1.42%	1.39%	1.84%	0.91%	1.33%	1.31%	1.68%	0.87%	1.24%
Residential Therms	121,596,975	123,212,094	124,815,955	127,019,882	128,057,477	129,672,909	131,278,865	133,422,020	134,468,756	136,057,301
Commercial Therms	99,645,626	101,157,862	102,660,591	104,631,869	105,687,706	107,185,951	108,670,824	110,557,482	111,610,722	113,047,446
Industrial Therms	12,166,734	12,373,327	12,581,949	12,841,776	13,003,600	13,210,888	13,416,893	13,642,235	13,823,774	14,025,147
Ind., Inst., & Cmcl. Interup. Therms	2,092,880	2,095,406	2,095,872	2,104,413	2,096,751	2,097,131	2,097,599	2,105,380	2,098,264	2,098,575
<b>Total Core Therms</b>	<b>235,502,015</b>	<b>238,838,689</b>	<b>242,154,367</b>	<b>246,597,940</b>	<b>248,845,534</b>	<b>252,166,879</b>	<b>255,464,140</b>	<b>259,747,117</b>	<b>262,001,515</b>	<b>265,248,469</b>
Daily BaseLoad Therms	185,615	187,847	169,649	172,759	197,677	198,870	201,056	182,118	194,207	186,792
Peak Day Therms	1,924,030	1,950,585	1,976,565	1,946,765	1,971,947	2,055,700	2,081,562	2,108,394	2,134,007	2,097,680
Therms Per Residential Customer	613	616	619	624	624	627	630	635	635	638
Therms Per Commercial Customer	3,640	3,664	3,689	3,730	3,738	3,762	3,785	3,822	3,831	3,853
Therms Per Industrial Customer	24,144	24,357	24,501	24,806	24,914	25,096	25,274	25,529	25,618	25,796
Residential Customers	198,293	200,021	201,728	203,422	205,096	206,755	208,397	210,027	211,640	213,237
Commercial Customers	27,378	27,607	27,831	28,053	28,273	28,492	28,709	28,924	29,136	29,347
Industrial Customers	504	508	514	518	522	526	531	535	540	544
Interruptible Customers	7	7	7	7	7	7	7	7	7	7
<b>Total Core Customers</b>	<b>226,182</b>	<b>228,143</b>	<b>230,079</b>	<b>231,999</b>	<b>233,898</b>	<b>235,780</b>	<b>237,644</b>	<b>239,493</b>	<b>241,323</b>	<b>243,135</b>
<b>System</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Total Therms Pct. Growth		1.60%	1.57%	2.03%	1.06%	1.50%	1.47%	1.87%	1.01%	1.40%
Residential Therms	168,628,493	171,507,074	174,376,118	178,121,369	180,162,774	183,045,481	185,918,829	189,606,886	191,648,270	194,504,449
Commercial Therms	130,975,769	132,936,101	134,879,243	137,462,131	138,796,810	140,736,878	142,663,843	145,154,220	146,490,718	148,389,997
Industrial Therms	16,964,867	17,273,359	17,584,589	17,970,025	18,213,291	18,524,235	18,834,346	19,205,104	19,450,611	19,756,962
Ind., Inst., & Cmcl. Interup. Therms	4,530,384	4,552,399	4,552,867	4,572,979	4,554,255	4,554,637	4,555,066	4,572,919	4,555,768	4,556,081
<b>Total Core Therms</b>	<b>321,119,514</b>	<b>326,268,932</b>	<b>331,392,817</b>	<b>338,126,505</b>	<b>341,727,130</b>	<b>346,981,231</b>	<b>351,972,084</b>	<b>358,530,129</b>	<b>362,145,367</b>	<b>367,207,509</b>
Daily BaseLoad Therms	254,547	258,288	241,442	246,055	272,117	274,698	278,445	261,028	274,761	268,541
Peak Day Therms	2,716,890	2,740,526	2,803,556	2,776,148	2,818,108	2,934,483	2,977,432	3,021,934	3,064,648	3,028,363
Therms Per Residential Customer	1,233	1,239	1,246	1,258	1,260	1,266	1,274	1,286	1,288	1,295
Therms Per Commercial Customer	4,013	4,035	4,054	4,098	4,097	4,118	4,139	4,177	4,179	4,199
Therms Per Industrial Customer	49,031	49,510	50,003	50,787	51,011	51,511	52,012	52,772	53,013	53,515
Residential Customers	267,686	270,338	272,955	275,547	278,107	280,639	283,143	285,626	288,080	290,509
Commercial Customers	37,791	38,097	38,399	38,698	38,994	39,287	39,581	39,870	40,156	40,440
Industrial Customers	668	675	682	688	694	701	707	713	719	725
Interruptible Customers	11	11	11	11	11	11	11	11	11	11
<b>Total Core Customers</b>	<b>306,156</b>	<b>309,121</b>	<b>312,046</b>	<b>314,944</b>	<b>317,806</b>	<b>320,638</b>	<b>323,442</b>	<b>326,220</b>	<b>328,966</b>	<b>331,685</b>

**Appendix B  
Demand Forecast  
Low Scenario**

<b>7th Day School</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Therms	9,193	9,258	9,193	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Therms	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>27,484</b>	<b>27,651</b>	<b>27,480</b>	<b>27,482</b>	<b>27,484</b>	<b>27,651</b>	<b>27,479</b>	<b>27,482</b>	<b>27,485</b>	<b>27,652</b>
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	211	211	212	211	211	211	211
Therms Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Therms Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Therms Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Acme</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.27%	0.67%	-0.14%	0.27%	0.29%	0.68%	-0.12%	0.28%	0.27%	0.69%
Residential Therms	51,297	51,720	51,724	51,944	52,173	52,609	52,626	52,856	53,080	53,530
Commercial Therms	28,792	28,907	28,788	28,988	28,792	28,907	28,792	28,792	28,788	28,903
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>80,089</b>	<b>80,627</b>	<b>80,512</b>	<b>80,731</b>	<b>80,965</b>	<b>81,516</b>	<b>81,418</b>	<b>81,648</b>	<b>81,868</b>	<b>82,433</b>
Daily BaseLoad Therms	54	55	55	55	55	55	55	55	55	56
Peak Day Therms	730	743	745	747	747	750	740	754	756	761
Therms Per Residential Customer	742	750	744	748	751	757	757	755	759	765
Therms Per Commercial Customer	3,199	3,212	3,199	3,199	3,199	3,212	3,199	3,199	3,199	3,211
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	69	69	69	69	69	69	69	69	70	70
Commercial Customers	9	9	9	9	9	9	9	9	9	9
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>79</b>	<b>79</b>	<b>79</b>
<b>Arlington</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.02%	1.41%	0.53%	0.96%	0.96%	1.34%	0.49%	0.89%	0.86%	1.29%
Residential Therms	3,286,130	3,318,418	3,321,598	3,339,456	3,357,918	3,389,817	3,392,847	3,410,216	3,426,736	3,458,686
Commercial Therms	2,315,681	2,360,408	2,385,140	2,419,639	2,454,389	2,498,332	2,521,928	2,555,443	2,588,270	2,632,282
Industrial Therms	477,243	486,187	491,090	497,974	504,914	513,699	518,383	525,071	531,617	540,413
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>6,079,055</b>	<b>6,165,013</b>	<b>6,197,827</b>	<b>6,257,069</b>	<b>6,317,221</b>	<b>6,401,849</b>	<b>6,433,178</b>	<b>6,490,730</b>	<b>6,546,622</b>	<b>6,631,382</b>
Daily BaseLoad Therms	5,618	5,716	5,822	5,886	5,952	6,008	5,969	6,078	6,185	6,238
Peak Day Therms	46,953	48,851	49,308	49,761	50,209	49,198	51,120	51,559	51,997	52,461
Therms Per Residential Customer	655	659	657	659	660	664	663	664	665	669
Therms Per Commercial Customer	3,318	3,353	3,360	3,380	3,401	3,434	3,440	3,459	3,476	3,509
Therms Per Industrial Customer	17,050	17,369	17,876	18,126	18,379	18,699	18,869	19,487	19,730	20,057
Residential Customers	5,020	5,037	5,053	5,070	5,086	5,103	5,119	5,136	5,152	5,168
Commercial Customers	698	704	710	716	722	727	733	739	745	750
Industrial Customers	28	28	27	27	27	27	27	27	27	27
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>5,746</b>	<b>5,769</b>	<b>5,791</b>	<b>5,813</b>	<b>5,835</b>	<b>5,858</b>	<b>5,880</b>	<b>5,902</b>	<b>5,924</b>	<b>5,945</b>
<b>Athens</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.79%	2.16%	1.34%	1.73%	1.79%	1.97%	1.29%	1.63%	1.52%	1.93%
Residential Therms	319,779	324,124	326,036	329,242	332,720	336,890	338,958	342,224	345,194	349,579
Commercial Therms	134,772	136,420	136,964	138,100	139,356	140,942	141,562	142,720	143,750	145,413
Industrial Therms	82,910	88,506	93,395	98,679	104,049	109,654	114,529	119,800	124,980	130,782
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>537,462</b>	<b>549,050</b>	<b>556,396</b>	<b>566,021</b>	<b>576,125</b>	<b>587,486</b>	<b>595,049</b>	<b>604,744</b>	<b>613,924</b>	<b>625,774</b>
Daily BaseLoad Therms	184	197	211	176	216	196	198	212	226	185
Peak Day Therms	3,902	4,463	4,544	4,625	4,707	4,297	4,884	4,965	5,046	5,143
Therms Per Residential Customer	563	568	567	569	572	576	576	578	580	584
Therms Per Commercial Customer	1,902	1,914	1,910	1,917	1,926	1,937	1,934	1,939	1,941	1,956
Therms Per Industrial Customer	38,692	41,304	40,233	41,043	43,277	45,608	44,312	45,365	47,327	49,524
Residential Customers	567	571	575	578	582	585	589	592	596	599
Commercial Customers	71	71	72	72	72	73	73	74	74	74
Industrial Customers	2	2	2	2	2	2	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>640</b>	<b>644</b>	<b>649</b>	<b>653</b>	<b>656</b>	<b>660</b>	<b>664</b>	<b>668</b>	<b>672</b>	<b>676</b>
<b>Baker</b>	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.01%	1.49%	0.49%	0.99%	1.01%	1.47%	0.49%	0.97%	0.94%	1.44%
Residential Therms	2,340,986	2,368,736	2,372,291	2,387,943	2,403,873	2,431,268	2,434,385	2,449,314	2,463,487	2,490,640
Commercial Therms	1,655,302	1,677,721	1,683,424	1,697,640	1,712,263	1,734,960	1,740,786	1,755,009	1,766,810	1,791,778
Industrial Therms	245,990	259,150	270,881	283,760	297,288	311,995	325,037	339,446	354,156	370,141
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,242,279</b>	<b>4,305,607</b>	<b>4,326,596</b>	<b>4,369,343</b>	<b>4,413,424</b>	<b>4,478,222</b>	<b>4,500,208</b>	<b>4,543,769</b>	<b>4,586,453</b>	<b>4,652,559</b>
Daily BaseLoad Therms	2,343	2,386	2,425	2,463	2,518	2,543	2,583	2,625	2,667	2,730
Peak Day Therms	39,628	40,992	41,338	41,683	42,029	41,333	42,735	43,080	43,424	43,765
Therms Per Residential Customer	662	668	667	669	671	676	675	677	678	684
Therms Per Commercial Customer	3,062	3,091	3,090	3,103	3,119	3,148	3,147	3,161	3,174	3,204
Therms Per Industrial Customer	81,997	86,383	90,294	94,587	99,096	103,998	108,346	113,149	118,052	123,380
Residential Customers	3,534	3,547	3,559	3,572	3,584	3,596	3,608	3,620	3,631	3,643
Commercial Customers	541	543	545	547	549	551	553	555	557	559
Industrial Customers	3	3	3	3	3	3	3	3	3	3
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>4,078</b>	<b>4,092</b>	<b>4,107</b>	<b>4,122</b>	<b>4,136</b>	<b>4,150</b>	<b>4,164</b>	<b>4,178</b>	<b>4,191</b>	<b>4,205</b>

**Appendix B**  
**Demand Forecast**  
**Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Bend Loop</b>										
Total Therms Pct. Growth	2.19%	2.67%	1.57%	2.05%	2.02%	2.59%	1.42%	1.90%	1.65%	2.36%
Residential Therms	34,032,369	35,041,085	35,685,025	36,511,810	37,342,915	38,369,392	39,000,795	39,826,583	40,652,165	41,494,729
Commercial Therms	13,991,617	14,259,993	14,383,017	14,579,138	14,776,994	15,049,742	15,170,750	15,367,417	15,562,551	15,839,941
Industrial Therms	947,731	976,867	998,033	1,023,244	1,048,616	1,078,279	1,099,331	1,124,742	1,150,093	1,180,399
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	48,971,718	50,277,945	51,066,074	52,114,192	53,168,525	54,497,413	55,270,876	56,320,743	57,364,810	58,717,068
Daily BaseLoad Therms	39,373	40,298	41,196	42,021	42,894	43,531	44,357	45,265	46,178	47,087
Peak Day Therms	471,330	486,994	497,147	507,300	517,454	527,778	537,905	548,070	558,238	568,549
Therms Per Residential Customer	834	849	854	864	874	888	893	903	912	926
Therms Per Commercial Customer	3,000	3,036	3,041	3,061	3,082	3,118	3,122	3,142	3,161	3,197
Therms Per Industrial Customer	21,887	22,145	22,226	22,399	22,577	22,832	22,920	23,100	23,266	23,558
Residential Customers	40,804	41,295	41,778	42,256	42,729	43,198	43,661	44,119	44,573	45,023
Commercial Customers	4,664	4,697	4,730	4,763	4,795	4,827	4,859	4,891	4,923	4,954
Industrial Customers	43	44	45	46	46	47	48	49	49	50
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	45,512	46,036	46,553	47,065	47,571	48,073	48,569	49,059	49,545	50,028
<b>Bremerton (Shelton)</b>										
Total Therms Pct. Growth	1.33%	1.75%	0.86%	1.28%	1.27%	1.68%	0.80%	1.22%	1.19%	1.62%
Residential Therms	25,520,986	25,977,084	26,204,933	26,547,281	26,891,991	27,354,075	27,578,241	27,920,649	28,260,573	28,728,585
Commercial Therms	13,764,011	14,016,043	14,151,726	14,345,771	14,541,114	14,796,328	14,930,092	15,124,172	15,316,886	15,575,247
Industrial Therms	475,577	483,229	486,766	492,367	498,008	505,755	509,235	514,837	520,398	528,239
Ind., Inst., & Cncl. Interup. Therms	1,592,516	1,598,639	1,592,394	1,592,394	1,592,516	1,598,639	1,592,517	1,592,516	1,592,393	1,598,516
<b>Total Core Therms</b>	41,353,089	42,074,995	42,435,819	42,977,812	43,523,828	44,254,797	44,610,085	45,152,174	45,690,250	46,430,588
Daily BaseLoad Therms	35,944	36,426	36,934	37,404	37,916	38,239	38,707	39,218	39,729	40,219
Peak Day Therms	322,643	330,697	334,941	339,183	343,423	343,996	352,105	356,344	360,582	365,026
Therms Per Residential Customer	693	700	701	706	710	718	719	723	727	735
Therms Per Commercial Customer	4,006	4,051	4,061	4,088	4,115	4,158	4,168	4,194	4,220	4,263
Therms Per Industrial Customer	31,705	32,215	32,451	32,824	33,201	33,717	33,949	34,322	34,693	35,216
Residential Customers	36,846	37,103	37,357	37,610	37,860	38,110	38,358	38,604	38,848	39,092
Commercial Customers	3,436	3,460	3,485	3,510	3,534	3,558	3,582	3,606	3,630	3,653
Industrial Customers	15	15	15	15	15	15	15	15	15	15
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	40,299	40,580	40,859	41,136	41,411	41,685	41,957	42,227	42,495	42,762
<b>Brouillette Hop</b>										
Total Therms Pct. Growth	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%	-0.62%	0.01%	0.01%	0.61%
Residential Therms	9,822	9,869	9,822	9,822	9,822	9,869	9,822	9,822	9,822	9,869
Commercial Therms	9,193	9,258	9,192	9,193	9,194	9,258	9,191	9,192	9,194	9,258
Industrial Therms	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	27,484	27,651	27,480	27,482	27,484	27,651	27,479	27,482	27,485	27,652
Daily BaseLoad Therms	6	6	6	6	6	6	6	6	6	6
Peak Day Therms	211	211	211	211	211	212	211	211	211	211
Therms Per Residential Customer	1,228	1,234	1,228	1,228	1,228	1,234	1,228	1,228	1,228	1,234
Therms Per Commercial Customer	1,839	1,852	1,838	1,839	1,839	1,852	1,838	1,838	1,839	1,852
Therms Per Industrial Customer	8,469	8,524	8,467	8,468	8,469	8,524	8,466	8,468	8,469	8,524
Residential Customers	8	8	8	8	8	8	8	8	8	8
Commercial Customers	5	5	5	5	5	5	5	5	5	5
Industrial Customers	1	1	1	1	1	1	1	1	1	1
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	14	14	14	14	14	14	14	14	14	14
<b>Burbank Heights Loop</b>										
Total Therms Pct. Growth	1.79%	2.19%	1.07%	1.49%	1.46%	1.87%	0.80%	1.25%	1.16%	1.63%
Residential Therms	7,521,271	7,690,132	7,774,986	7,892,011	8,010,063	8,161,287	8,226,427	8,329,068	8,424,688	8,561,487
Commercial Therms	5,556,791	5,677,418	5,738,243	5,824,119	5,909,915	6,021,213	6,070,967	6,148,502	6,221,756	6,325,552
Industrial Therms	276,998	280,076	280,879	282,853	284,907	288,044	288,894	290,906	292,856	296,052
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	13,355,060	13,647,625	13,794,108	13,999,983	14,204,885	14,470,545	14,586,289	14,768,477	14,939,300	15,183,091
Daily BaseLoad Therms	10,273	10,523	10,659	10,913	10,572	11,136	11,247	11,353	11,452	10,789
Peak Day Therms	82,234	86,988	88,253	89,438	90,592	89,072	93,303	94,328	95,296	96,801
Therms Per Residential Customer	535	540	540	542	544	548	546	547	548	551
Therms Per Commercial Customer	4,186	4,238	4,247	4,275	4,303	4,351	4,354	4,378	4,400	4,444
Therms Per Industrial Customer	21,308	21,544	21,606	21,758	21,916	22,157	22,223	22,377	22,527	22,773
Residential Customers	14,053	14,228	14,401	14,570	14,737	14,902	15,064	15,223	15,380	15,536
Commercial Customers	1,328	1,340	1,351	1,362	1,373	1,384	1,394	1,404	1,414	1,424
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	15,393	15,581	15,765	15,946	16,123	16,299	16,471	16,641	16,807	16,972
<b>Castle Rock</b>										
Total Therms Pct. Growth	0.20%	0.63%	-0.22%	0.20%	0.19%	0.63%	-0.23%	0.20%	0.21%	0.63%
Residential Therms	37,933	38,537	38,762	39,174	39,584	40,199	40,413	40,827	41,246	41,870
Commercial Therms	132,718	133,186	132,587	132,514	132,426	132,891	132,278	132,203	132,142	132,604
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cncl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	170,650	171,723	171,349	171,688	172,010	172,900	172,691	173,030	173,388	174,475
Daily BaseLoad Therms	232	232	232	232	232	232	232	232	232	232
Peak Day Therms	1,159	1,145	1,147	1,150	1,153	1,173	1,158	1,161	1,163	1,166
Therms Per Residential Customer	446	447	445	444	444	446	444	443	443	445
Therms Per Commercial Customer	2,765	2,775	2,762	2,761	2,759	2,769	2,756	2,754	2,753	2,763
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	85	86	87	88	89	90	91	92	93	94
Commercial Customers	48	48	48	48	48	48	48	48	48	48
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	133	134	135	136	137	138	139	140	141	142

**Appendix B  
Demand Forecast  
Low Scenario**

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

**Appendix B  
Demand Forecast  
Low Scenario**

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





**Appendix B  
Demand Forecast  
Low Scenario**

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

**Appendix B  
Demand Forecast  
Low Scenario**

Mission Tap	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	0.78%	1.18%	0.38%	0.77%	0.76%	1.15%	0.35%	0.74%	0.74%	1.23%
Residential Therms	124,557	125,682	125,716	126,291	126,864	128,002	128,025	128,600	129,176	130,321
Commercial Therms	435,772	441,249	443,346	447,124	450,898	456,432	458,466	462,245	466,029	471,621
Industrial Therms	-	-	-	-	-	-	-	-	-	-
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>560,329</b>	<b>566,931</b>	<b>569,061</b>	<b>573,415</b>	<b>577,764</b>	<b>584,434</b>	<b>586,492</b>	<b>590,845</b>	<b>595,204</b>	<b>601,942</b>
Daily Baseload Therms	566	571	576	580	584	589	593	598	603	607
Peak Day Therms	6,171	6,213	6,261	6,308	6,356	6,408	6,450	6,498	6,545	6,592
Therms Per Residential Customer	551	554	553	555	556	559	558	559	560	564
Therms Per Commercial Customer	9,006	9,090	9,061	9,067	9,094	9,150	9,129	9,123	9,177	9,220
Therms Per Industrial Customer	-	-	-	-	-	-	-	-	-	-
Residential Customers	226	227	227	228	228	229	229	230	231	231
Commercial Customers	48	49	49	49	50	50	50	51	51	51
Industrial Customers	-	-	-	-	-	-	-	-	-	-
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>274</b>	<b>275</b>	<b>276</b>	<b>277</b>	<b>278</b>	<b>279</b>	<b>280</b>	<b>281</b>	<b>281</b>	<b>282</b>
<b>Moses Lake</b>										
Total Therms Pct. Growth	0.26%	0.69%	-0.15%	0.21%	0.25%	0.64%	-0.23%	0.25%	0.16%	0.65%
Residential Therms	299,637	302,164	301,925	302,884	303,991	306,369	305,834	306,921	307,723	310,152
Commercial Therms	2,293,041	2,310,589	2,309,299	2,315,746	2,323,312	2,339,407	2,335,540	2,342,991	2,348,063	2,364,576
Industrial Therms	88,222	86,719	84,148	82,513	80,722	79,489	77,561	75,698	74,243	72,924
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,680,901</b>	<b>2,699,472</b>	<b>2,695,373</b>	<b>2,701,144</b>	<b>2,708,025</b>	<b>2,725,265</b>	<b>2,718,935</b>	<b>2,725,610</b>	<b>2,730,029</b>	<b>2,747,652</b>
Daily Baseload Therms	2,634	2,623	2,625	2,636	2,641	2,649	2,679	2,679	2,677	2,689
Peak Day Therms	15,992	16,576	16,593	16,599	16,607	16,193	16,696	16,706	16,708	16,994
Therms Per Residential Customer	416	419	418	420	421	424	423	424	425	428
Therms Per Commercial Customer	5,947	5,989	5,981	5,992	6,009	6,045	6,031	6,046	6,055	6,094
Therms Per Industrial Customer	11,028	10,840	10,519	10,314	10,090	9,936	9,695	9,462	9,280	9,115
Residential Customers	721	721	722	722	723	723	723	723	724	724
Commercial Customers	386	386	386	386	387	387	387	388	388	388
Industrial Customers	8	8	8	8	8	8	8	8	8	8
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,115</b>	<b>1,115</b>	<b>1,116</b>	<b>1,116</b>	<b>1,117</b>	<b>1,118</b>	<b>1,119</b>	<b>1,119</b>	<b>1,120</b>	<b>1,120</b>
<b>Moxee (Beauchene)</b>										
Total Therms Pct. Growth	1.26%	1.59%	0.74%	1.11%	1.08%	1.38%	0.55%	0.91%	0.84%	1.23%
Residential Therms	716,915	729,486	734,786	743,394	751,868	763,374	767,433	774,782	781,682	792,222
Commercial Therms	758,592	784,158	801,764	822,432	842,551	865,576	879,979	897,609	914,400	935,116
Industrial Therms	530,047	523,834	516,039	509,484	503,223	497,732	491,026	485,421	479,938	475,467
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,005,554</b>	<b>2,037,478</b>	<b>2,052,589</b>	<b>2,075,310</b>	<b>2,097,642</b>	<b>2,126,682</b>	<b>2,138,437</b>	<b>2,157,813</b>	<b>2,176,020</b>	<b>2,202,805</b>
Daily Baseload Therms	586	409	444	491	630	622	453	472	508	656
Peak Day Therms	12,454	13,231	13,420	13,602	13,775	13,551	14,210	14,360	14,504	14,757
Therms Per Residential Customer	585	589	588	589	591	594	592	593	593	597
Therms Per Commercial Customer	10,796	11,072	11,209	11,399	11,596	11,790	11,905	12,016	12,161	12,323
Therms Per Industrial Customer	41,329	40,717	39,987	39,479	38,755	38,332	37,701	37,046	36,409	35,858
Residential Customers	1,225	1,238	1,250	1,262	1,273	1,285	1,296	1,307	1,317	1,328
Commercial Customers	70	71	72	72	73	73	74	75	75	76
Industrial Customers	13	13	13	13	13	13	13	13	13	13
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,309</b>	<b>1,321</b>	<b>1,334</b>	<b>1,347</b>	<b>1,359</b>	<b>1,371</b>	<b>1,383</b>	<b>1,394</b>	<b>1,406</b>	<b>1,417</b>
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
<b>North Bend</b>										
Total Therms Pct. Growth	3.11%	3.63%	2.26%	2.88%	2.85%	3.35%	1.99%	2.55%	2.45%	3.15%
Residential Therms	6,673	7,114	7,262	7,463	7,649	7,920	8,067	8,269	8,471	8,744
Commercial Therms	265,321	275,260	281,796	290,208	298,763	309,037	315,451	323,741	331,914	342,622
Industrial Therms	9,857	9,917	9,850	9,850	9,856	9,919	9,853	9,855	9,850	9,913
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>282,051</b>	<b>292,291</b>	<b>299,007</b>	<b>307,521</b>	<b>316,287</b>	<b>326,876</b>	<b>333,370</b>	<b>341,865</b>	<b>350,235</b>	<b>361,279</b>
Daily Baseload Therms	33	32	31	31	32	32	32	32	31	32
Peak Day Therms	4,580	4,851	5,002	5,153	5,305	5,310	5,604	5,755	5,907	6,054
Therms Per Residential Customer	1,718	1,779	1,815	1,866	1,917	1,980	2,017	2,067	2,118	2,186
Therms Per Commercial Customer	2,482	2,531	2,546	2,579	2,615	2,663	2,676	2,707	2,738	2,787
Therms Per Industrial Customer	4,928	4,958	4,925	4,925	4,928	4,959	4,926	4,927	4,925	4,956
Residential Customers	4	4	4	4	4	4	4	4	4	4
Commercial Customers	107	109	111	113	114	116	118	120	121	123
Industrial Customers	2	2	2	2	2	2	2	2	2	2
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>113</b>	<b>115</b>	<b>117</b>	<b>119</b>	<b>120</b>	<b>122</b>	<b>124</b>	<b>126</b>	<b>127</b>	<b>129</b>
<b>Nyssa-Ontario</b>										
Total Therms Pct. Growth	0.94%	1.44%	0.43%	0.92%	0.93%	1.41%	0.41%	0.89%	0.87%	1.38%
Residential Therms	2,261,298	2,297,560	2,309,184	2,333,200	2,357,543	2,394,315	2,405,749	2,429,772	2,453,455	2,490,730
Commercial Therms	2,772,779	2,819,309	2,837,149	2,869,442	2,902,125	2,940,333	2,966,882	2,999,185	3,031,081	3,078,939
Industrial Therms	488,233	493,469	495,966	499,826	503,776	509,048	511,603	515,491	519,283	524,557
Ind., Inst., & Cmcl. Interup. Therms	868,091	872,356	867,966	867,967	868,091	872,356	868,088	868,090	867,968	872,334
<b>Total Core Therms</b>	<b>6,390,401</b>	<b>6,482,695</b>	<b>6,510,264</b>	<b>6,570,435</b>	<b>6,631,535</b>	<b>6,725,052</b>	<b>6,752,322</b>	<b>6,812,537</b>	<b>6,871,787</b>	<b>6,966,461</b>
Daily Baseload Therms	3,949	3,947	3,972	4,014	4,061	4,074	4,096	4,116	4,142	4,180
Peak Day Therms	45,409	46,859	47,289	47,719	48,148	47,795	49,147	49,576	50,004	50,578
Therms Per Residential Customer	555	561	561	563	566	572	572	574	577	583
Therms Per Commercial Customer	2,757	2,787	2,789	2,806	2,822	2,852	2,853	2,869	2,884	2,914
Therms Per Industrial Customer	17,997	18,022	17,903	17,860	17,735	17,791	17,691	17,639	17,548	17,589
Residential Customers	4,075	4,097	4,120	4,142	4,164	4,186	4,208	4,230	4,251	4,273
Commercial Customers	1,006	1,011	1,017	1,023	1,029	1,034	1,040	1,045	1,051	1,056
Industrial Customers	27	27	28	28	28	29	29	29	30	30
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,109</b>	<b>5,137</b>	<b>5,165</b>	<b>5,194</b>	<b>5,222</b>	<b>5,250</b>	<b>5,278</b>	<b>5,305</b>	<b>5,333</b>	<b>5,360</b>

**Appendix B  
Demand Forecast  
Low Scenario**

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



**Appendix B  
Demand Forecast  
Low Scenario**

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

**Appendix B  
Demand Forecast  
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Sunnyside</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.58%	1.01%	0.98%	1.36%	0.42%	0.83%	0.78%	1.27%
Residential Therms	1,176,428	1,195,485	1,201,939	1,214,167	1,224,139	1,243,697	1,249,284	1,258,733	1,268,622	1,284,621
Commercial Therms	1,916,217	1,946,966	1,959,311	1,979,977	2,000,197	2,028,367	2,037,623	2,055,266	2,071,963	2,097,797
Industrial Therms	696,409	705,222	708,931	714,952	720,883	728,920	731,794	736,934	741,756	749,090
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>3,789,064</b>	<b>3,847,673</b>	<b>3,870,171</b>	<b>3,909,096</b>	<b>3,947,219</b>	<b>4,000,983</b>	<b>4,017,701</b>	<b>4,050,932</b>	<b>4,082,341</b>	<b>4,131,709</b>
Daily Baseload Therms	2,850	2,880	2,891	2,919	2,965	3,005	3,030	3,045	3,049	3,098
Peak Day Therms	25,083	26,023	26,287	26,542	26,787	26,413	27,292	27,508	27,716	27,963
Therms Per Residential Customer	554	559	559	561	563	567	566	567	568	572
Therms Per Commercial Customer	3,312	3,342	3,341	3,354	3,365	3,390	3,384	3,392	3,398	3,418
Therms Per Industrial Customer	38,559	38,217	38,418	38,744	39,065	38,537	38,689	38,961	39,216	39,369
Residential Customers	2,123	2,137	2,151	2,165	2,179	2,193	2,206	2,220	2,233	2,247
Commercial Customers	579	583	587	590	594	598	602	606	610	614
Industrial Customers	18	18	18	18	18	18	19	19	19	19
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,719</b>	<b>2,738</b>	<b>2,756</b>	<b>2,774</b>	<b>2,791</b>	<b>2,810</b>	<b>2,827</b>	<b>2,845</b>	<b>2,862</b>	<b>2,880</b>
<b>Umatilla</b>										
Total Therms Pct. Growth	1.14%	1.55%	0.70%	1.10%	1.09%	1.51%	0.64%	1.05%	1.05%	1.47%
Residential Therms	539,733	555,495	565,625	578,529	591,415	607,441	617,289	630,193	643,117	659,408
Commercial Therms	550,148	561,649	567,802	576,598	585,377	597,045	603,013	611,808	620,623	632,461
Industrial Therms	948,192	952,588	950,708	951,958	953,195	957,613	955,696	956,947	958,213	962,652
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,038,073</b>	<b>2,069,732</b>	<b>2,084,135</b>	<b>2,107,086</b>	<b>2,129,987</b>	<b>2,162,099</b>	<b>2,175,998</b>	<b>2,198,949</b>	<b>2,221,953</b>	<b>2,254,520</b>
Daily Baseload Therms	2,382	2,394	2,414	2,433	2,450	2,459	2,478	2,498	2,519	2,527
Peak Day Therms	12,173	12,303	12,466	12,628	12,791	13,030	13,137	13,299	13,461	13,645
Therms Per Residential Customer	493	501	504	509	514	521	523	528	533	541
Therms Per Commercial Customer	3,494	3,538	3,548	3,577	3,602	3,646	3,653	3,681	3,708	3,751
Therms Per Industrial Customer	135,456	136,084	135,815	135,994	136,171	136,802	136,528	136,707	136,888	137,522
Residential Customers	1,094	1,109	1,123	1,138	1,152	1,166	1,179	1,193	1,206	1,219
Commercial Customers	157	159	160	161	163	164	165	166	167	169
Industrial Customers	7	7	7	7	7	7	7	7	7	7
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,259</b>	<b>1,275</b>	<b>1,290</b>	<b>1,306</b>	<b>1,321</b>	<b>1,336</b>	<b>1,351</b>	<b>1,366</b>	<b>1,381</b>	<b>1,395</b>
<b>Walla Walla</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,512,200	7,620,511	7,654,637	7,720,674	7,786,295	7,883,771	7,906,483	7,963,218	8,015,556	8,104,140
Commercial Therms	6,573,689	6,644,322	6,654,981	6,692,140	6,729,220	6,792,074	6,795,259	6,825,844	6,853,114	6,909,535
Industrial Therms	252,628	258,290	262,977	267,889	272,782	278,574	282,045	286,525	290,797	296,187
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>14,338,517</b>	<b>14,523,753</b>	<b>14,572,595</b>	<b>14,680,704</b>	<b>14,788,297</b>	<b>14,954,419</b>	<b>14,983,788</b>	<b>15,075,587</b>	<b>15,159,467</b>	<b>15,309,862</b>
Daily Baseload Therms	11,718	11,749	11,771	11,851	11,985	12,122	12,207	12,208	12,204	12,204
Peak Day Therms	162,834	166,652	168,050	169,354	170,622	169,290	172,944	174,053	175,097	176,054
Therms Per Residential Customer	590	595	593	594	596	599	598	598	598	601
Therms Per Commercial Customer	4,623	4,645	4,624	4,623	4,622	4,639	4,615	4,611	4,605	4,618
Therms Per Industrial Customer	11,676	11,847	11,816	11,998	12,026	12,206	12,209	12,186	12,332	12,384
Residential Customers	12,730	12,817	12,903	12,988	13,072	13,156	13,238	13,320	13,400	13,481
Commercial Customers	1,422	1,430	1,439	1,448	1,456	1,464	1,472	1,480	1,488	1,496
Industrial Customers	22	22	22	22	23	23	23	24	24	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14,173</b>	<b>14,269</b>	<b>14,365</b>	<b>14,458</b>	<b>14,551</b>	<b>14,643</b>	<b>14,734</b>	<b>14,824</b>	<b>14,912</b>	<b>15,001</b>
<b>Wenatchee</b>										
Total Therms Pct. Growth	0.85%	1.35%	0.35%	0.86%	0.90%	1.36%	0.38%	0.86%	0.83%	1.34%
Residential Therms	615,877	623,753	625,088	629,826	634,772	642,836	644,277	649,018	653,545	661,705
Commercial Therms	3,721,484	3,765,214	3,772,035	3,796,626	3,826,913	3,873,114	3,882,272	3,910,356	3,937,386	3,985,014
Industrial Therms	450,883	463,608	472,281	483,021	493,904	506,812	515,439	526,185	536,776	549,860
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>4,788,154</b>	<b>4,852,576</b>	<b>4,869,403</b>	<b>4,911,472</b>	<b>4,955,589</b>	<b>5,022,762</b>	<b>5,041,988</b>	<b>5,085,559</b>	<b>5,127,707</b>	<b>5,196,578</b>
Daily Baseload Therms	4,372	4,343	4,335	4,377	4,473	4,548	4,592	4,585	4,576	4,653
Peak Day Therms	31,696	33,623	33,884	34,149	34,416	33,089	35,029	35,303	35,579	35,929
Therms Per Residential Customer	421	424	422	423	424	427	426	427	427	430
Therms Per Commercial Customer	5,147	5,186	5,175	5,190	5,207	5,249	5,241	5,258	5,274	5,317
Therms Per Industrial Customer	27,970	28,177	28,515	28,850	29,067	29,827	29,902	30,223	30,831	30,975
Residential Customers	1,463	1,472	1,480	1,488	1,497	1,505	1,513	1,521	1,529	1,537
Commercial Customers	723	726	729	732	735	738	741	744	747	750
Industrial Customers	16	16	17	17	17	17	17	17	17	18
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>2,202</b>	<b>2,214</b>	<b>2,225</b>	<b>2,237</b>	<b>2,249</b>	<b>2,260</b>	<b>2,271</b>	<b>2,282</b>	<b>2,293</b>	<b>2,305</b>
<b>Woodland</b>										
Total Therms Pct. Growth	2.61%	3.00%	1.95%	2.42%	2.45%	2.76%	1.81%	2.21%	2.08%	2.57%
Residential Therms	609,072	630,128	644,910	663,088	681,593	703,005	717,920	736,065	753,684	775,429
Commercial Therms	918,072	939,343	950,581	967,233	984,852	1,006,475	1,018,327	1,035,035	1,050,726	1,072,673
Industrial Therms	933,472	964,960	988,369	1,016,101	1,044,636	1,076,547	1,100,293	1,128,068	1,154,955	1,187,248
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>2,460,616</b>	<b>2,534,431</b>	<b>2,583,860</b>	<b>2,646,343</b>	<b>2,711,081</b>	<b>2,784,027</b>	<b>2,826,540</b>	<b>2,899,168</b>	<b>2,959,345</b>	<b>3,035,349</b>
Daily Baseload Therms	3,131	2,987	3,043	3,222	3,232	3,545	3,351	3,441	3,497	3,022
Peak Day Therms	15,148	17,616	18,049	18,483	18,917	17,063	19,783	20,217	20,651	21,083
Therms Per Residential Customer	675	688	695	705	716	729	736	745	754	767
Therms Per Commercial Customer	3,565	3,607	3,612	3,638	3,665	3,709	3,717	3,740	3,762	3,805
Therms Per Industrial Customer	44,979	45,628	45,969	47,031	47,517	48,151	48,994	49,498	49,890	51,071
Residential Customers	903	915	928	940	952	964	976	988	999	1,011
Commercial Customers	258	260	263	266	269	271	274	277	279	282
Industrial Customers	21	21	22	22	22	22	22	23	23	23
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>1,181</b>	<b>1,197</b>	<b>1,212</b>	<b>1,227</b>	<b>1,243</b>	<b>1,258</b>	<b>1,272</b>	<b>1,287</b>	<b>1,302</b>	<b>1,316</b>

**Appendix B  
Demand Forecast  
Low Scenario**

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

**Appendix B  
Demand Forecast  
Low Scenario**

Zone 11	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Total Therms Pct. Growth	1.27%	1.71%	0.65%	1.12%	1.10%	1.52%	0.88%	0.94%	0.87%	1.36%
Residential Therms	15,511,368	15,746,445	15,848,208	16,010,745	16,171,762	16,407,711	16,467,157	16,666,652	16,736,958	16,955,564
Commercial Therms	20,221,983	20,563,503	20,693,831	20,922,393	21,151,003	21,470,422	21,573,329	21,775,949	21,965,315	22,244,850
Industrial Therms	5,056,441	5,159,196	5,216,238	5,292,693	5,369,973	5,463,680	5,511,033	5,577,553	5,640,286	5,726,155
Ind., Inst., & Cmcl. Interup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>40,789,792</b>	<b>41,489,143</b>	<b>41,758,277</b>	<b>42,226,831</b>	<b>42,692,737</b>	<b>43,341,813</b>	<b>43,551,519</b>	<b>43,960,174</b>	<b>44,342,560</b>	<b>44,946,569</b>
Daily Baseload Therms	29,072	28,919	28,954	29,371	30,235	30,810	30,950	30,960	30,911	31,691
Peak Day Therms	327,333	343,642	347,582	351,392	355,067	346,385	362,393	365,681	368,856	372,332
Therms Per Residential Customer	651	658	657	660	662	668	666	668	669	674
Therms Per Commercial Customer	4,184	4,227	4,227	4,247	4,267	4,305	4,300	4,314	4,326	4,360
Therms Per Industrial Customer	36,971	37,292	37,322	37,503	37,617	37,977	37,948	38,063	38,197	38,391
Residential Customers	23,819	23,971	24,121	24,270	24,418	24,566	24,712	24,857	25,001	25,145
Commercial Customers	4,833	4,864	4,896	4,926	4,957	4,987	5,017	5,047	5,077	5,107
Industrial Customers	137	138	140	141	143	144	145	147	148	149
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>28,789</b>	<b>28,973</b>	<b>29,156</b>	<b>29,337</b>	<b>29,518</b>	<b>29,697</b>	<b>29,874</b>	<b>30,051</b>	<b>30,226</b>	<b>30,401</b>
<b>Zone 20</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.59%	2.02%	0.99%	1.44%	1.43%	1.88%	0.85%	1.32%	1.27%	1.76%
Residential Therms	20,263,384	20,718,601	20,951,966	21,288,256	21,625,659	22,068,332	22,279,090	22,601,332	22,915,281	23,350,807
Commercial Therms	21,878,454	22,286,377	22,488,452	22,787,620	23,087,993	23,496,440	23,680,962	23,974,283	24,260,102	24,665,045
Industrial Therms	1,020,203	1,033,740	1,038,220	1,047,589	1,056,919	1,070,734	1,075,605	1,084,642	1,093,973	1,107,911
Ind., Inst., & Cmcl. Interup. Therms	275,862	277,014	275,829	275,829	275,862	277,014	275,862	275,862	275,829	276,981
<b>Total Core Therms</b>	<b>43,437,903</b>	<b>44,315,733</b>	<b>44,754,467</b>	<b>45,399,294</b>	<b>46,066,433</b>	<b>46,912,520</b>	<b>47,311,519</b>	<b>47,936,118</b>	<b>48,545,185</b>	<b>49,400,743</b>
Daily Baseload Therms	37,405	38,001	38,429	38,325	39,218	40,109	40,591	41,053	41,464	41,244
Peak Day Therms	339,835	352,921	357,889	362,750	367,583	365,353	377,954	382,677	387,352	392,895
Therms Per Residential Customer	558	563	563	566	569	574	573	576	578	583
Therms Per Commercial Customer	4,386	4,429	4,432	4,454	4,477	4,520	4,520	4,542	4,562	4,605
Therms Per Industrial Customer	24,303	24,625	24,732	24,684	24,904	25,229	25,344	25,557	25,777	25,835
Residential Customers	36,335	36,769	37,197	37,619	38,035	38,447	38,853	39,254	39,650	40,042
Commercial Customers	4,988	5,031	5,074	5,116	5,157	5,198	5,239	5,278	5,318	5,356
Industrial Customers	42	42	42	42	42	42	42	42	42	43
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>41,367</b>	<b>41,845</b>	<b>42,316</b>	<b>42,779</b>	<b>43,237</b>	<b>43,690</b>	<b>44,136</b>	<b>44,576</b>	<b>45,012</b>	<b>45,443</b>
<b>Zone 24</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	0.98%	1.48%	0.46%	0.96%	0.97%	1.45%	0.45%	0.93%	0.91%	1.42%
Residential Therms	4,677,373	4,743,156	4,759,202	4,800,207	4,841,852	4,907,886	4,923,342	4,963,689	5,002,941	5,069,297
Commercial Therms	4,465,957	4,536,232	4,560,617	4,608,232	4,656,678	4,728,003	4,752,256	4,799,960	4,846,848	4,919,180
Industrial Therms	734,223	752,619	766,847	783,585	801,064	821,043	836,639	854,937	873,439	894,698
Ind., Inst., & Cmcl. Interup. Therms	868,091	872,356	867,966	867,967	868,091	872,356	868,088	868,090	867,968	872,234
<b>Total Core Therms</b>	<b>10,745,645</b>	<b>10,904,363</b>	<b>10,954,632</b>	<b>11,059,991</b>	<b>11,167,685</b>	<b>11,329,288</b>	<b>11,380,326</b>	<b>11,486,676</b>	<b>11,591,197</b>	<b>11,755,408</b>
Daily Baseload Therms	6,302	6,343	6,409	6,489	6,592	6,629	6,690	6,754	6,823	6,922
Peak Day Therms	86,277	89,140	89,942	90,744	91,544	90,501	93,307	94,108	94,908	95,873
Therms Per Residential Customer	603	609	608	611	613	619	618	620	623	628
Therms Per Commercial Customer	2,852	2,881	2,882	2,897	2,913	2,942	2,943	2,958	2,972	3,002
Therms Per Industrial Customer	24,349	24,772	24,976	25,288	25,507	25,972	26,211	26,531	26,799	27,258
Residential Customers	7,753	7,790	7,826	7,867	7,897	7,932	7,967	8,001	8,036	8,070
Commercial Customers	1,566	1,574	1,583	1,591	1,599	1,607	1,615	1,623	1,631	1,639
Industrial Customers	30	30	31	31	31	32	32	32	33	33
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>9,351</b>	<b>9,395</b>	<b>9,440</b>	<b>9,484</b>	<b>9,528</b>	<b>9,571</b>	<b>9,615</b>	<b>9,657</b>	<b>9,700</b>	<b>9,742</b>
<b>Zone 26</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.55%	1.91%	1.09%	1.48%	1.51%	1.82%	1.05%	1.40%	1.34%	1.74%
Residential Therms	2,040,463	2,096,770	2,135,747	2,183,678	2,232,517	2,289,586	2,328,657	2,376,623	2,423,593	2,481,382
Commercial Therms	4,184,318	4,278,546	4,325,257	4,396,728	4,470,730	4,566,074	4,614,167	4,685,725	4,754,638	4,851,032
Industrial Therms	1,086,555	1,114,976	1,134,375	1,158,613	1,183,700	1,212,520	1,232,357	1,256,657	1,280,041	1,309,222
Ind., Inst., & Cmcl. Interup. Therms	84,263	84,632	84,276	84,268	84,294	84,578	84,285	84,317	84,278	84,578
<b>Total Core Therms</b>	<b>9,395,599</b>	<b>9,574,925</b>	<b>9,679,653</b>	<b>9,823,288</b>	<b>9,971,242</b>	<b>10,152,759</b>	<b>10,259,465</b>	<b>10,403,322</b>	<b>10,542,550</b>	<b>10,726,213</b>
Daily Baseload Therms	9,040	8,950	9,072	9,299	8,400	9,823	9,681	9,739	9,861	7,838
Peak Day Therms	78,434	83,755	84,952	86,149	87,345	84,293	89,860	91,055	92,250	93,572
Therms Per Residential Customer	567	575	579	585	592	600	604	610	616	624
Therms Per Commercial Customer	4,541	4,576	4,577	4,595	4,616	4,652	4,654	4,672	4,690	4,725
Therms Per Industrial Customer	30,390	30,844	31,078	31,652	32,005	32,457	32,900	33,254	33,553	34,231
Residential Customers	3,601	3,645	3,688	3,730	3,772	3,813	3,854	3,894	3,934	3,974
Commercial Customers	1,362	1,372	1,382	1,392	1,402	1,412	1,421	1,431	1,440	1,450
Industrial Customers	36	36	37	37	37	37	37	38	38	38
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>5,000</b>	<b>5,054</b>	<b>5,107</b>	<b>5,159</b>	<b>5,211</b>	<b>5,263</b>	<b>5,314</b>	<b>5,364</b>	<b>5,414</b>	<b>5,463</b>
<b>Zone 30-S</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Total Therms Pct. Growth	1.25%	1.67%	0.79%	1.21%	1.21%	1.61%	0.74%	1.15%	1.13%	1.56%
Residential Therms	28,320,694	28,822,259	29,070,027	29,445,462	29,824,225	30,332,363	30,576,844	30,952,372	31,324,407	31,839,053
Commercial Therms	17,009,504	17,290,461	17,428,466	17,638,707	17,851,390	18,135,929	18,272,846	18,483,139	18,696,902	18,978,824
Industrial Therms	660,840	666,879	667,612	671,145	674,777	681,884	681,858	685,394	688,832	695,210
Ind., Inst., & Cmcl. Interup. Therms	1,592,516	1,598,831	1,592,394	1,592,394	1,592,516	1,598,639	1,592,517	1,592,516	1,592,392	1,598,516
<b>Total Core Therms</b>	<b>47,582,355</b>	<b>48,378,239</b>	<b>48,758,499</b>	<b>49,347,708</b>	<b>49,942,908</b>	<b>50,748,015</b>	<b>51,124,044</b>	<b>51,713,421</b>	<b>52,296,534</b>	<b>53,111,462</b>
Daily Baseload Therms	41,498	42,245	42,777	42,729	43,449	44,206	44,701	45,235	45,771	45,347
Peak Day Therms	359,903	370,413	374,953	379,491	384,026	382,899	393,416	397,951	402,483	407,346
Therms Per Residential Customer	694	701	703	707	711	719	720	724	728	735
Therms Per Commercial Customer	4,072	4,113	4,119	4,143	4,166	4,207	4,213	4,236	4,259	4,299
Therms Per Industrial Customer	23,594	23,817	23,843	23,969	24,099	24,324	24,352	24,478	24,601	24,829
Residential Customers	40,804	41,088	41,370	41,649	41,927	42,203	42,478	42,750	43,021	43,290
Commercial Customers	4,177	4,204	4,231	4,258	4,285	4,311	4,337	4,363	4,389	4,415
Industrial Customers	28	28	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>45,011</b>	<b>45,322</b>	<b>45,631</b>	<b>45,937</b>	<b>46,241</b>	<b>46,544</b>	<b>46,845</b>	<b>47,143</b>	<b>47,440</b>	<b>47,735</b>



**Appendix B  
Demand Forecast  
Low Scenario**

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>Zone 30-W</b>										
Total Therms Pct. Growth	0.96%	1.37%	0.52%	0.95%	0.97%	1.36%	0.53%	0.95%	0.92%	1.36%
Residential Therms	60,551,229	61,330,470	61,583,793	62,113,149	62,660,919	63,465,435	63,740,341	64,286,951	64,823,285	65,454,637
Commercial Therms	34,007,686	34,909,755	35,128,253	35,496,302	35,875,361	36,393,643	36,624,648	37,033,672	37,376,837	37,912,554
Industrial Therms	4,437,768	4,518,316	4,549,353	4,636,404	4,705,685	4,789,468	4,843,271	4,913,110	4,982,316	5,049,685
Ind., Inst., & Cmcl. Interrup. Therms	79,297	79,565	79,291	79,291	79,297	79,565	79,297	79,297	79,291	79,559
<b>Total Core Therms</b>	<b>99,475,979</b>	<b>100,838,106</b>	<b>101,360,689</b>	<b>102,325,346</b>	<b>103,321,261</b>	<b>104,727,932</b>	<b>105,287,557</b>	<b>106,283,030</b>	<b>107,261,729</b>	<b>108,716,435</b>
Daily Baseload Therms	73,371	74,379	75,061	57,459	64,222	77,115	77,738	78,447	79,172	60,440
Peak Day Therms	778,069	808,151	816,038	823,984	831,994	815,739	847,734	855,945	864,219	872,075
Therms Per Residential Customer	659	664	663	664	666	671	670	672	674	679
Therms Per Commercial Customer	3,049	3,072	3,071	3,082	3,095	3,119	3,119	3,131	3,143	3,169
Therms Per Industrial Customer	19,894	20,103	20,185	20,318	20,465	20,639	20,715	20,899	21,046	21,264
Residential Customers	91,876	92,418	92,957	93,492	94,024	94,555	95,082	95,607	96,129	96,649
Commercial Customers	11,286	11,363	11,440	11,516	11,592	11,668	11,742	11,817	11,891	11,965
Industrial Customers	223	225	226	228	230	232	234	235	237	238
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>103,386</b>	<b>104,007</b>	<b>104,624</b>	<b>105,237</b>	<b>105,847</b>	<b>106,456</b>	<b>107,060</b>	<b>107,660</b>	<b>108,258</b>	<b>108,854</b>
<b>Zone GTN</b>										
Total Therms Pct. Growth	2.06%	2.55%	1.44%	1.94%	1.92%	2.40%	1.31%	1.80%	1.75%	2.27%
Residential Therms	48,309,208	49,709,022	50,583,352	51,721,499	52,867,103	54,291,132	55,148,794	56,267,769	57,419,028	58,867,642
Commercial Therms	24,120,295	24,566,990	24,758,336	25,078,605	25,403,378	25,856,990	26,046,052	26,366,578	26,682,665	27,143,590
Industrial Therms	3,735,403	3,836,818	3,902,122	3,985,798	4,070,526	4,173,304	4,238,129	4,321,793	4,404,348	4,508,558
Ind., Inst., & Cmcl. Interrup. Therms	278,365	279,828	279,292	279,292	279,828	279,828	279,828	279,828	279,828	279,755
<b>Total Core Therms</b>	<b>76,443,272</b>	<b>78,392,659</b>	<b>79,522,103</b>	<b>81,064,193</b>	<b>82,619,373</b>	<b>84,601,254</b>	<b>85,711,341</b>	<b>87,254,506</b>	<b>88,784,332</b>	<b>90,799,546</b>
Daily Baseload Therms	61,737	63,183	64,503	65,693	67,049	67,890	69,081	70,475	71,814	73,249
Peak Day Therms	720,743	747,697	762,575	777,449	792,322	794,268	822,274	837,154	852,034	867,127
Therms Per Residential Customer	833	847	853	862	872	886	890	899	908	922
Therms Per Commercial Customer	3,181	3,218	3,221	3,241	3,261	3,298	3,300	3,320	3,339	3,375
Therms Per Industrial Customer	29,692	30,151	30,307	30,672	31,015	31,493	31,712	32,071	32,406	32,897
Residential Customers	57,971	58,655	59,330	59,997	60,657	61,311	61,956	62,595	63,228	63,855
Commercial Customers	7,582	7,635	7,688	7,739	7,791	7,841	7,892	7,942	7,992	8,042
Industrial Customers	126	127	129	130	131	133	134	135	136	137
Interruptible Customers	1	1	1	1	1	1	1	1	1	1
<b>Total Core Customers</b>	<b>65,680</b>	<b>66,418</b>	<b>67,147</b>	<b>67,867</b>	<b>68,579</b>	<b>69,285</b>	<b>69,983</b>	<b>70,673</b>	<b>71,356</b>	<b>72,035</b>
<b>Zone ME-OR</b>										
Total Therms Pct. Growth	1.02%	1.50%	0.51%	1.00%	1.01%	1.45%	0.49%	0.96%	0.93%	1.42%
Residential Therms	6,728,055	6,851,026	6,902,599	6,990,308	7,079,644	7,204,205	7,255,489	7,343,292	7,429,378	7,555,883
Commercial Therms	7,178,942	7,287,774	7,327,419	7,402,204	7,478,627	7,588,694	7,628,499	7,703,333	7,776,469	7,888,070
Industrial Therms	1,367,074	1,378,198	1,378,749	1,384,657	1,390,713	1,401,824	1,402,391	1,408,285	1,414,043	1,425,410
Ind., Inst., & Cmcl. Interrup. Therms	1,311,051	1,316,381	1,310,733	1,310,734	1,310,734	1,316,381	1,311,051	1,310,734	1,310,734	1,316,064
<b>Total Core Therms</b>	<b>16,585,123</b>	<b>16,833,379</b>	<b>16,919,500</b>	<b>17,087,904</b>	<b>17,260,036</b>	<b>17,511,104</b>	<b>17,597,429</b>	<b>17,765,961</b>	<b>17,930,624</b>	<b>18,185,428</b>
Daily Baseload Therms	14,831	14,993	15,134	15,220	15,431	15,485	15,628	15,781	15,929	16,034
Peak Day Therms	140,452	145,703	147,126	148,548	149,968	147,898	153,085	154,504	155,921	157,626
Therms Per Residential Customer	544	550	550	553	556	562	562	565	568	573
Therms Per Commercial Customer	3,559	3,592	3,591	3,608	3,625	3,658	3,657	3,673	3,689	3,722
Therms Per Industrial Customer	49,906	50,312	50,007	50,070	50,289	50,691	50,383	50,493	50,699	51,107
Residential Customers	12,349	12,442	12,554	12,645	12,735	12,825	12,914	13,002	13,089	13,177
Commercial Customers	2,017	2,029	2,040	2,052	2,063	2,074	2,086	2,097	2,108	2,119
Industrial Customers	27	27	28	28	28	28	28	28	28	28
Interruptible Customers	2	2	2	2	2	2	2	2	2	2
<b>Total Core Customers</b>	<b>14,416</b>	<b>14,520</b>	<b>14,623</b>	<b>14,726</b>	<b>14,828</b>	<b>14,929</b>	<b>15,030</b>	<b>15,129</b>	<b>15,227</b>	<b>15,326</b>
<b>Zone ME-WA</b>										
Total Therms Pct. Growth	0.90%	1.29%	0.34%	0.74%	0.73%	1.12%	0.20%	0.61%	0.56%	0.99%
Residential Therms	7,512,200	7,620,511	7,654,637	7,720,674	7,786,295	7,883,771	7,906,483	7,963,218	8,015,556	8,104,140
Commercial Therms	6,573,689	6,644,322	6,654,981	6,692,140	6,729,220	6,792,074	6,795,259	6,825,844	6,853,114	6,899,535
Industrial Therms	252,628	258,920	262,977	267,889	272,782	278,574	282,045	286,525	290,797	296,187
Ind., Inst., & Cmcl. Interrup. Therms	-	-	-	-	-	-	-	-	-	-
<b>Total Core Therms</b>	<b>14,338,517</b>	<b>14,523,753</b>	<b>14,572,595</b>	<b>14,680,704</b>	<b>14,788,297</b>	<b>14,954,419</b>	<b>14,983,788</b>	<b>15,075,587</b>	<b>15,159,467</b>	<b>15,309,862</b>
Daily Baseload Therms	11,718	11,749	11,771	11,851	11,985	12,122	12,207	12,208	12,204	12,317
Peak Day Therms	162,834	166,652	168,050	169,354	170,622	169,290	172,944	174,053	175,097	176,054
Therms Per Residential Customer	590	595	593	594	596	599	597	598	598	601
Therms Per Commercial Customer	4,623	4,645	4,624	4,623	4,622	4,639	4,615	4,611	4,605	4,618
Therms Per Industrial Customer	11,676	11,847	11,816	11,998	12,026	12,209	12,186	12,186	12,332	12,384
Residential Customers	12,730	12,817	12,903	12,988	13,072	13,156	13,238	13,320	13,400	13,481
Commercial Customers	1,422	1,430	1,439	1,448	1,456	1,464	1,472	1,480	1,488	1,496
Industrial Customers	22	22	22	22	23	23	23	24	24	24
Interruptible Customers	-	-	-	-	-	-	-	-	-	-
<b>Total Core Customers</b>	<b>14,173</b>	<b>14,249</b>	<b>14,365</b>	<b>14,458</b>	<b>14,551</b>	<b>14,643</b>	<b>14,734</b>	<b>14,824</b>	<b>14,912</b>	<b>15,001</b>
<b>Oregon</b>										
Total Therms Pct. Growth	1.78%	2.27%	1.19%	1.69%	1.68%	2.16%	1.10%	1.59%	1.54%	2.06%
Residential Therms	59,714,637	61,303,205	62,245,153	63,512,014	64,788,599	66,403,222	67,327,625	68,594,751	69,851,348	71,492,823
Commercial Therms	35,765,194	36,390,995	36,646,373	37,089,041	37,538,683	38,173,687	38,426,807	38,869,871	39,305,981	39,950,840
Industrial Therms	5,836,701	5,961,635	6,047,718	6,154,041	6,262,304	6,396,171	6,477,159	6,585,015	6,691,830	6,828,666
Ind., Inst., & Cmcl. Interrup. Therms	2,457,508	2,468,546	2,456,991	2,456,993	2,457,508	2,468,546	2,457,504	2,457,508	2,456,994	2,468,053
<b>Total Core Therms</b>	<b>103,774,039</b>	<b>106,130,401</b>	<b>107,396,235</b>	<b>109,212,088</b>	<b>111,047,093</b>	<b>113,441,644</b>	<b>114,689,095</b>	<b>116,507,143</b>	<b>118,306,153</b>	<b>120,740,382</b>
Daily Baseload Therms	82,870	84,519	86,045	87,402	89,072	90,004	91,399	93,010	94,566	96,225
Peak Day Therms	947,472	982,540	999,643	1,016,741	1,033,835	1,032,648	1,068,665	1,085,765	1,102,863	1,120,626
Therms Per Residential Customer	765	777	781	789	797	809	813	821	828	840
Therms Per Commercial Customer	3,203	3,238	3,240	3,259	3,278	3,313	3,315	3,333	3,351	3,386
Therms Per Industrial Customer	31,837	32,253	32,336	32,632	32,907	33,351	33,491	33,791	34,073	34,529
Residential Customers	78,093	78,906	79,709	80,503	81,288	82,067	82,837	83,599	84,353	85,102
Commercial Customers	11,166	11,238	11,310	11,381	11,452	11,522	11,593	11,662	11,731	11,800
Industrial Customers	183	185	187	189	190	192	193	195	196	198
Interruptible Customers	4	4	4	4	4	4	4	4	4	4
<b>Total Core Customers</b>	<b>89,446</b>	<b>90,333</b>	<b>91,211</b>	<b>92,077</b>	<b>92,935</b>	<b>93,785</b>	<b>94,627</b>	<b>95,460</b>	<b>96,284</b>	<b>97,103</b>

**Appendix B  
Demand Forecast  
Low Scenario**

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