



8113 W. GRANDRIDGE BLVD., KENNEWICK, WASHINGTON 99336-7166  
TELEPHONE 509-734-4500 FACSIMILE 509-737-9803  
[www.cngc.com](http://www.cngc.com)

September 15, 2022

Oregon Public Utility Commission  
Attn: Filing Center  
201 High Street S.E., Suite 100  
Salem, OR 97301-3398

**Re: Advice No. CNG/O22-07-02, UG 442**  
**Supplemental UM 1558, Deferred Accounting for Purchased Gas**  
**Adjustment Schedule 177, Purchased Gas Cost Adjustment and Schedule**  
**No. 191 Temporary Gas Cost Rate Adjustment**

Pursuant to OAR 860-022-0070, Docket UM 1286 Order Nos. 11-196, 14-238, and 18-144, ORS 757.210 and ORS 757.259(5), Cascade Natural Gas Corporation ("Cascade") submits the following revisions to its Tariff P.U.C. OR No. 10, stated to become effective with service on and after November 1, 2022:

**Sixth Revision of Sheet No. 177.2**  
**Sixth Revision of Sheet No. 191.1**

In accordance with guidance provided in Docket No. UM 1286, Cascade has updated commodity costs to reflect index purchases based on 60-day basin-weighted average prices.

The purpose of this filing is to make the annual true up to Cascade's gas cost in accordance with the provisions established in Schedule No. 177, Purchase Gas Adjustment ("PGA") Provision. The purchased gas cost changes proposed in this filing result from changes in the cost of commodity gas supply, transportation capacity, and realignment of existing firm transportation capacity. In accordance with the PGA methodology, amortization of outstanding deferred gas cost balances is also included in this filing.

Tables 1 through 3 below summarize the changes in the following: 1) Forward looking commodity costs included in Schedule 177.2; 2) Demand costs included in Schedule 177.2; and 3) The combined changes to Schedule 177.2 (both commodity and demand).

**Table 1 - Schedule 177.2 Commodity**

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.28120	\$0.44324	<b>\$0.16204</b>

**Table 2 - Schedule 177.2 Demand**

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.15009	\$0.13671	<b>(\$0.01338)</b>

**Table 3 - Schedule 177.2 Commodity + Demand**

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.43129	\$0.57995	<b>\$0.14866</b>

**Commodity Costs (Schedule 177.2)**

As shown in Table 1, the estimated Weighted Average Cost of Gas (“WACOG”) increases \$0.16204 per therm. The proposed WACOG is \$0.44324 per therm compared to the present WACOG of \$0.28120 per therm included in rates.

Natural gas prices have been elevated throughout 2022. Even summer pricing was abnormally high, with NYMEX hovering around \$6.00/MMBtu. These increases can be attributed to a few causes. Scorching temperatures across the nation have left storage inventories at extremely low levels, leaving little opportunity for summer price arbitrage. The global markets are in chaos, as a result of the Russian invasion of Ukraine and the energy restrictions that followed, leading global LNG price spikes to trickle into the U.S. markets. Also, the United States has increased its LNG exports to Europe to aide in the crisis, leaving less domestic supply to combat the ever-increasing demand. Lastly, natural gas production is lagging behind demand and analysts only see price relief if production can ramp up adequately.

Cascade’s Gas Supply Oversight Committee (“GSOC”) oversees the Company’s gas supply physical portfolio and overall hedging strategy. Approximately 50% of estimated annual load requirements for the PGA year will be hedged through fixed price physicals and financial derivatives. Cascade’s relationship with Gelber & Associates (“G&A”) remains active as the Company’s hedging consultant. Recent price indications suggest fixed price physicals are less expensive than their financial counterpart. G&A recommended continuing hedging with fixed-price physicals due to current flexibility and cost advantages over financial transactions at Northwest Basin combined with financial instruments when economically appropriate. Cascade has been hedging natural gas both on a periodic and discretionary basis throughout 2022 for the forthcoming PGA year (November 2022 through October 2023). In accordance with GSOC guidance, transactions cannot exceed 42 months. Cascade will continue to execute transactions for hedging purposes throughout the remainder of calendar year 2022, consistent with the current hedge execution plan authorized by GSOC.

The information contained in the Company’s responses to “Natural Gas Portfolio Development Guidelines” describes the Company’s Natural Gas Procurement Plan (“Procurement Plan”). The Company’s Procurement Plan uses a diversified approach to procure natural gas for the upcoming year. While the Procurement Plan incorporates a risk responsive approach for the hedging portion of the portfolio, the Company exercises flexibility and discretion in all areas of the Plan based on changes in the wholesale market. As outlined in the OPUC’s portfolio planning guidelines, the Company meets with the Commission Staff quarterly to discuss the state of the wholesale market and the status of the Company’s Procurement Plan, among other related activities. Should the Company deviate from the Procurement Plan due to a change in market dynamics, etc., the Company documents and communicates any such changes with GSOC and provides updates to Commission Staff.

**Demand Costs (Schedule 177.2)**

Demand costs reflect the cost of pipeline transportation to the Company’s system, as well as fixed costs associated with natural gas storage. As shown in Table 2, demand costs are expected to be relatively stable, with the Company proposing a decrease of \$0.01338 cents per therm. A variety of factors influenced the change in demand costs including an updated demand forecast; new rates for the Westcoast, Foothills, Nova, and Northwest pipelines; and an update to the Canadian exchange rate.

**Amortization of Deferral Accounts (Schedule 191.1)**

Table 4 below summarizes the changes in both the commodity and demand amortization rates included in Schedule 191:

**Table 4**  
**Schedule 191 PGA Temporary Gas Cost Rate Adjustment**  
**Amortization**

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.03725	\$0.13789	<b>\$0.10064</b>

As shown in Table 4, the current overall amortization amount approved in the Company’s 2021 PGA is a collected rate of approximately \$0.04 per therm. Actual wholesale natural gas prices were higher than the level identified in the Company’s 2021 PGA. As a result, commodity and demand costs were under collected from customers and resulted in the deferral balance growing by approximately \$9,248,000 over last year. The proposed amortization results in a nearly \$0.14 per therm rate.

**Three Percent Test**

Pursuant to ORS 757.259 and OAR 860-027-0300, the overall annual average rate impact of the amortizations authorized under the statutes may not exceed three percent of the natural gas utility’s gross revenues for the preceding calendar year, unless the Commission finds that allowing

a higher amortization rate is reasonable under the circumstances in ORS 757.259(7). As shown on Attachment C of the Company’s PGA workpapers, total gross revenue for calendar year 2021 was \$77,563,145. The total amortization revenue requested for the “Prior Period Gas Cost Deferral” as shown in Attachment C is \$12,671,052. The resulting annual average rate impact from PGA amortization is 16.34% and does not fall within the requirements of the statute. However, the overall average impact is greater than the 3% due to natural gas commodity and pipeline transportation costs incurred during 2021-2022 which are outside the Company’s control.

When the “Prior Period Gas Cost Deferral” is combined with the “Non-Gas Cost Amortization” related to the Company’s Conservation Alliance Plan filing made on September 15, 2022, the result is a total amortization revenue request of \$11,757,377. After removing the Intervenor Funding deferral, the net effect of combining the results of these two filings is an overall revenue change of \$11,704,219, an average rate impact of 15.09%, which does not fall within the requirements of the statute. As mentioned earlier, this is largely due to higher commodity and demand costs incurred during 2021-2022.

In accordance with ORS 757.259(7), Cascade believes that it is appropriate and reasonable to amortize the full balance at this time, rather than continue to defer the balances with a rate of return that would ultimately be paid for by the Company’s customers.

**Other Information**

Pursuant to OAR 860-022-0025 and OAR 860-022-0030, Table 5 shows the annual revenue before and after the impact of the rate change, Table 6 below provides the average monthly use and resulting bills under existing and proposed rates, and Table 7 shows the total number of customers affected by this filing.

In this filing, the Company is requesting an increase in the Company’s annual operating revenues of \$22,908,050 or 29.53 percent. Table 5 below shows current and proposed gross annual revenues per customer class.

**Table 5**

Rate Schedule	Description	Total Current Revenues	Total Proposed Revenues	Revenue Incr (Decr)	Percent Incr (Decr)
101	Residential	\$43,071,488	55,531,642	12,460,154	28.93%
104	Commercial	\$24,067,962	32,208,970	8,141,008	33.83%
105	Industrial Firm	\$2,300,012	3,105,715	805,703	35.03%
111	Com-Ind Dual	\$1,997,720	2,787,571	789,851	39.54%
170	Industrial Interr	\$1,692,502	2,403,835	711,333	42.03%

**Table 6**

Rate Schedule	Avg Therms per Month	Current Avg Bill	Proposed Avg Bill	Monthly Change	Proposed Rates % Change
101	62	\$59.81	\$77.12	\$17.30	28.93%
104	272	\$213.72	\$286.01	\$72.29	33.83%
105	1,657	\$1,220.87	\$1,648.54	\$427.67	35.03%
111	11,942	\$7,701.97	\$10,747.15	\$3,045.18	39.54%
170	54,801	\$32,910.98	\$46,742.97	\$13,831.99	42.03%

**Table 7**

Rate Schedule	Number of Customers
101	70,250
104	10,378
105	159
111	21
170	4

In Advice Nos. O22-07-03 and O22-07-04, Cascade has also filed its Non-Gas Cost Tracking Filings. The net overall change in revenue is an increase. Table 8 below shows the net impact to the Company’s customers, by rate schedule, inclusive of all the Company’s filings made on July 29, 2022 and supplemental filings made on September 15, 2022:

**Table 8**

<u>Rate Schedule</u>	<u>Proposed Rate Change</u>
Schedule 101	25.23%
Schedule 104	30.12%
Schedule 105	33.75%
Schedule 111	38.55%
Schedule 170	41.40%
Schedule 163	(0.64%)

After combining the impact of this filing along with the two other regulatory filings made today, the overall effect of the proposed rate adjustments on the monthly bill of a residential customer with consumption of 62 therms will be an increase of \$15.09 or 25.23%, for a revised monthly bill of \$74.90 effective November 1, 2022.

The Company notified customers with a bill insert in August of a projected increase in rates due to the PGA. The Company will issue a more detailed bill insert to customers at the beginning of October with the information presented in this filing.

The rate adjustments proposed in this filing are consistent with the Public Utility Commission of Oregon Staff's recommendations with regard to rate spread requirements and amortization procedures.

Attached in support of this filing are Exhibits 1, 2, and 3. Exhibit 1 contains schedules supporting the per therm gas cost change consistent with the procedure described in PGA Rate Schedule No. 177. Exhibit 2 contains summary information on the proposed impacts the filings will have on the Company's rates and revenues, and the various rate schedules. A proposed notice to the public is also included. Exhibit 3 contains a summary of the proposed changes to the Company's revenues.

The Company agrees to rate adjustments and refunds should the Commission determine that these rates have been inappropriately calculated. Any rate adjustments and refunds will be retroactive to November 1, 2022 provided that the Commission advises the Company of the necessity for such rate adjustments or refunds within 30 days after the effective date of these rates.

If there are any questions regarding this filing, please contact me at (208) 377-6015.

Sincerely,

*/s/ Lori A. Blattner*

Lori A. Blattner  
Director, Regulatory Affairs  
Cascade Natural Gas Corporation  
8113 W. Grandridge Blvd.  
Kennewick, WA 99336-7166  
[Lori.blattner@intgas.com](mailto:Lori.blattner@intgas.com)

Enclosures

**SCHEDULE 177  
PURCHASED GAS COST ADJUSTMENT PROVISION**

**DEFINITIONS (continued)**

1. Capacity Release Benefits: This component includes revenues associated with pipeline capacity releases. The benefits to customers, through the monthly PGA deferrals, shall be 100% of the capacity release revenues up to the full pipeline rate, and 80% of the capacity release revenues in excess of full pipeline rates. Capacity release revenues shall be quantified on a transaction-by-transaction basis.
  
2. Estimated Weighted Average Cost of Gas (WACOG): The estimated WACOG for the period November 1<sup>st</sup> through October 31<sup>st</sup> is calculated by the following formula: (Forecasted Purchases at Adjusted Contract Prices) divided by (forecasted sales volumes). This WACOG does not include any revenue sensitive factors.
  - a. Forecasted Purchases means this year’s forecasted sales volumes plus a percentage for distribution system LUGF and pipeline fuel in kind.
  - b. Distribution system embedded LUGF means the 5-year average of actual distribution system LUGF, not to exceed 2%.
  - c. Adjusted contract prices means actual and projected contract prices that are adjusted by each associated Canadian pipeline’s published (closest to August 1) fuel use and line loss amount provided for by tariff, and by each associated U.S. pipeline’s tariffed rate.
  
3. Estimated Non-Commodity Cost: Estimated annual Non-Commodity gas costs shall be equal to estimated annual Demand Costs, less estimated annual Capacity Release Benefits, plus or minus estimated annual pipeline refunds or surcharges.
  
4. Estimated Non-Commodity Cost per Therm: The Estimated Non-Commodity cost per therm is calculated by the following formula: (Estimated annual Non-Commodity Cost divided by forecasted sales volumes). This estimate does not include any revenue-sensitive factors.

The Estimated Cost of Gas per therm is as follows:

	<b>Cost of Gas Per Therm</b>	<b>Revenue Sensitive Costs</b>	<b>Cost of Gas Per Therm Rate</b>	
<b>WACOG</b>	\$0.42985	3.02%	\$0.44324	(I)
<b>Non-Commodity Cost</b>	\$0.13258	3.02%	\$0.13671	(R)
<b>TOTAL</b>	<b>\$0.56243</b>	<b>3.02%</b>	<b>\$0.57995</b>	<b>(I)</b>

10. Actual Monthly Calendar Sales Volumes: Actual billed sales therms, adjusted for estimated unbilled therms, for firm and interruptible sales schedules.

(continued)

**SCHEDULE NO. 191  
TEMPORARY GAS COST RATE ADJUSTMENT**

**APPLICABLE**

The temporary rate applies to Schedules 101, 104, 105, 111, and 170.

**RATES**

Each of the charges specified in the schedules for gas service hereinafter listed shall be adjusted by the following per therm increase or (decrease) or appropriate multiple thereof in determining annual minimum bill, if any:

Rate Schedule	Amount
101	\$0.13789
104	\$0.13789
105	\$0.13789
111	\$0.13789
170	\$0.13789

(I)  
|  
(I)

**LIMITATION**

This temporary rate adjustment shall remain in effect until cancelled pursuant to a Commission order.

**TAX ADDITIONS**

The rates named herein are subject to increases as set forth in Schedule 100 for Municipal Exactions.

**GENERAL TERMS**

Service under this schedule is governed by the terms of this schedule, the Rules contained in this Tariff, any other schedules that by their terms or by the terms of this schedule apply to service under this schedule, and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

**SCHEDULE 177  
PURCHASED GAS COST ADJUSTMENT PROVISION**

**DEFINITIONS (continued)**

1. Capacity Release Benefits: This component includes revenues associated with pipeline capacity releases. The benefits to customers, through the monthly PGA deferrals, shall be 100% of the capacity release revenues up to the full pipeline rate, and 80% of the capacity release revenues in excess of full pipeline rates. Capacity release revenues shall be quantified on a transaction-by-transaction basis.
  
2. Estimated Weighted Average Cost of Gas (WACOG): The estimated WACOG for the period November 1<sup>st</sup> through October 31<sup>st</sup> is calculated by the following formula: (Forecasted Purchases at Adjusted Contract Prices) divided by (forecasted sales volumes). This WACOG does not include any revenue sensitive factors.
  - a. Forecasted Purchases means this year’s forecasted sales volumes plus a percentage for distribution system LUGF and pipeline fuel in kind.
  - b. Distribution system embedded LUGF means the 5-year average of actual distribution system LUGF, not to exceed 2%.
  - c. Adjusted contract prices means actual and projected contract prices that are adjusted by each associated Canadian pipeline’s published (closest to August 1) fuel use and line loss amount provided for by tariff, and by each associated U.S. pipeline’s tariffed rate.
  
3. Estimated Non-Commodity Cost: Estimated annual Non-Commodity gas costs shall be equal to estimated annual Demand Costs, less estimated annual Capacity Release Benefits, plus or minus estimated annual pipeline refunds or surcharges.
  
4. Estimated Non-Commodity Cost per Therm: The Estimated Non-Commodity cost per therm is calculated by the following formula: (Estimated annual Non-Commodity Cost divided by forecasted sales volumes). This estimate does not include any revenue-sensitive factors.

The Estimated Cost of Gas per therm is as follows:

	<b>Cost of Gas Per Therm</b>	<b>Revenue Sensitive Costs</b>	<b>Cost of Gas Per Therm Rate</b>	
<b>WACOG</b>	\$0. <del>2726042985</del>	3.0 <del>6</del> <u>2</u> %	\$0. <del>2812044324</del>	(I)
<b>Non-Commodity Cost</b>	\$0. <del>1455013258</del>	3.0 <del>6</del> <u>2</u> %	\$0. <del>1500913671</del>	( <del>R</del> )
<b>TOTAL</b>	<b>\$0.<del>4181056243</del></b>	<b>3.0<del>6</del><u>2</u>%</b>	<b>\$0.<del>4312957995</del></b>	(I)

10. Actual Monthly Calendar Sales Volumes: Actual billed sales therms, adjusted for estimated unbilled therms, for firm and interruptible sales schedules.

(continued)

SCHEDULE NO. 191  
TEMPORARY GAS COST RATE ADJUSTMENT

**APPLICABLE**

The temporary rate applies to Schedules 101, 104, 105, 111, and 170.

**RATES**

Each of the charges specified in the schedules for gas service hereinafter listed shall be adjusted by the following per therm increase or (decrease) or appropriate multiple thereof in determining annual minimum bill, if any:

Rate Schedule	Amount
101	\$0. <del>03725</del> <u>13789</u>
104	\$0. <del>03725</del> <u>13789</u>
105	\$0. <del>03725</del> <u>13789</u>
111	\$0. <del>03725</del> <u>13789</u>
170	\$0. <del>03725</del> <u>13789</u>

(I)  
|  
(I)

**LIMITATION**

This temporary rate adjustment shall remain in effect until cancelled pursuant to a Commission order.

**TAX ADDITIONS**

The rates named herein are subject to increases as set forth in Schedule 100 for Municipal Exactions.

**GENERAL TERMS**

Service under this schedule is governed by the terms of this schedule, the Rules contained in this Tariff, any other schedules that by their terms or by the terms of this schedule apply to service under this schedule, and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

# Cascade Natural Gas Corporation

## CERTIFICATE OF SERVICE

I hereby certify that I have this day served by electronic mail the foregoing notice of Cascade's Purchase Gas Adjustment Filing upon all parties of record in UG-390, which is the Company's last general rate case.

Oregon Citizens' Utility Board <a href="mailto:dockets@oregoncub.org">dockets@oregoncub.org</a>	Michael Goetz Oregon Citizens' Utility Board <a href="mailto:mike@oregoncub.org">mike@oregoncub.org</a>
Tommy A Brooks Cable Huston LLP <a href="mailto:tbrooks@cablehuston.com">tbrooks@cablehuston.com</a>	Chad M Stokes Cable Huston LLP <a href="mailto:cstokes@cablehuston.com">cstokes@cablehuston.com</a>
Jocelyn C Pease McDowell, Rackner & Gibson PC <a href="mailto:jocelyn@mrg-law.com">jocelyn@mrg-law.com</a>	Edward Finklea Alliance of Western Energy Consumers <a href="mailto:efinklea@awec.solutions.org">efinklea@awec.solutions.org</a>
William Gehrke Oregon Citizens' Utility Board <a href="mailto:will@oregoncub.org">will@oregoncub.org</a>	Lisa F Rackner McDowell, Rackner & Gibson PC <a href="mailto:dockets@mrg-law.com">dockets@mrg-law.com</a>
Stephanie S Andrus PUC Staff- Department of Justice <a href="mailto:Stephanie.andrus@state.or.us">Stephanie.andrus@state.or.us</a>	

Dated this 15<sup>th</sup> day of September 2022.

/s/ Maryalice Gresham  
Maryalice Gresham  
Regulatory Affairs  
Cascade Natural Gas Corporation  
8113 W Grandridge Blvd  
Kennewick, WA 99336  
maryalice.gresham@cngc.com

**Before the**  
**PUBLIC UTILITY COMMISSION OF OREGON**

**EXHIBIT 1**

**Gas Supply Portfolio and Related Transportation**

Oregon Summary of Gas Cost Deferrals (Schedule 1 of 9)  
Prior Commodity & Demand Amortization (Schedule 2 of 9)  
Development of Gas Cost Related PGA Temporary Rate Increments (Schedule 3 of 9)  
Core Market Commodity Cost Amortization Supporting 47OR.1910.01272 (Schedule 4 of 9)  
Gas Cost Consolidated Accounts Amortization Supporting 47OR.1910.01287 (Schedule 5 of 9)  
Core Market Demand Amortization Supporting 47OR.1910.01273 (Schedule 6 of 9)  
New WACOG Commodity (Schedule 7 of 9)  
Derivation of Oregon per Therm Non-Commodity Charges (Schedule 8 of 9)  
Summary of Rate and Revenue Impact (Schedule 9 of 9)

**Cascade Natural Gas Corporation**

**September 15, 2022**

**Cascade Natural Gas  
Oregon Summary of Gas Cost Deferrals**

Line No.		2020	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	SUM (A-L)
		2020	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
1	Current commodity (WACOG) without revenue sensitive, Order No.20-362/21-361	\$0.20559	\$0.20559	\$0.20559	\$0.20559	\$0.20559	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260
2	Current demand billing rate without revenue sensitive, Order No.20-362/21-361	\$0.13923	\$0.13923	\$0.13923	\$0.13923	\$0.13923	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550
5	Annual ROR (Interest rate), per Order No. 21-001			7.0710%						7.0710%						
6	Deferral percentage			90%												
11	Oregon Calendar Month Sales	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690		
14	Sales volumes subject to WACOG	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690		
15	Sales volumes subject to Winter/Seasonal WACOG															0
16	Sales volumes subject to Monthly Incremental Costs															0
17	Total Sales	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690		
19	Commodity collections at WACOG	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153		0
20	Commodity collections at Winter/Seasonal WACOG															0
21	Commodity collections at Monthly Incremental Costs															0
22	<b>Total Commodity collections</b>	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153		0
23	Demand collections	\$411,129	\$308,982	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	13,429,906		0
25	Demand collections at other rates (interruptible rates & MDDV based)															0
26	<b>Total Demand collections</b>	\$411,129	\$308,982	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	13,429,906		0
27																
28	<b>COMMODITY DEFERRAL CALCULATIONS</b>															
29	Actual Commodity Cost (w/true ups, net of storage injections, bookouts, etc.)	\$ 587,256	\$ 778,152	\$ 1,020,912	\$2,288,742.70	\$ 3,664,139	\$ 6,209,779	\$ 6,093,082	4,638,894	3,570,298	3,596,679	2,739,437	1,882,318	37,069,689		
30	Total Commodity billed (line 22)	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153		
31	Cost versus collection	(\$19,826.54)	\$321,902	\$353,222	\$1,019,238	\$1,009,192.57	\$2,184,787	\$2,184,917	\$1,401,624	\$862,670	\$1,304,907	\$1,184,832	\$947,071	\$12,754,537		
32	Customer share (line 31 * applicable deferral percentage)	(\$17,844)	\$289,712	\$317,900	\$917,314	\$908,273	\$1,966,308	\$1,966,425	\$1,261,460.37	\$776,405	\$1,174,416	\$1,066,349	\$852,364	\$11,479,083		
33	Storage Adjustment															\$0
34	Other Adjustment															\$0
35	Total Commodity deferral	(\$17,844)	\$289,712	\$317,900	\$917,314	\$908,273	\$1,966,308	\$1,966,425	\$1,261,460.37	\$776,405	\$1,174,416	\$1,066,349	\$852,364	\$11,479,083		
36																
37	Commodity deferral Beginning Balance	\$2,843,931	\$2,841,552	\$3,146,803	\$3,482,423	\$1,507,173	\$2,423,865	\$4,405,817	\$6,395,522	\$7,691,435	\$8,513,760	\$9,736,359	\$10,850,320	\$11,764,815		
38	Interest	\$17,079	\$17,065	\$18,289	\$20,914	\$8,759	\$14,557	\$26,459	\$34,691	\$46,191	\$49,480	\$58,472	\$63,060	\$375,015		
39	Account adjustment (balance transfers and other)	\$(1,614.81)	\$(1,525.59)	\$(568.97)	\$(2,913,477.50)	\$(340.76)	\$1,087.51	\$(3,179.73)	\$(238.12)	\$(271)	\$(1,297.27)	\$(10,859.76)	\$(928.22)	\$(2,933,215)		
40	<b>Commodity deferral Ending Balance</b>	<b>2,843,931</b>	<b>\$2,841,552</b>	<b>\$3,146,803</b>	<b>\$3,482,423</b>	<b>\$2,423,865</b>	<b>\$4,405,817</b>	<b>\$6,395,522</b>	<b>\$7,691,435</b>	<b>\$8,513,760</b>	<b>\$9,736,359</b>	<b>\$10,850,320</b>	<b>\$11,764,815</b>			
41																
42	<b>DEMAND DEFERRAL CALCULATIONS</b>															
43																
44	Actual Demand Cost (w/true-ups) minus Storage Mitigation	\$ 870,752	\$ 866,233	\$ 846,338.66	\$ 869,750.20	\$ 1,312,144.26	1,416,646.47	1,379,773.07	1,349,066.60	1,410,131.91	1,324,269.49	822,095.17	880,335.64	\$13,347,537		
45	Total Demand billed (line 26)	\$411,129	\$308,982.14	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	\$13,429,906		
46	Cost versus collection	\$459,622	\$557,251	\$394,164.45	\$10,014	(\$126,153.29)	(\$731,690)	(\$706,206)	(\$378,823)	(\$35,061.98)	\$101,038.19	(\$7,674)	\$381,148	(\$82,369)		
47	Other Adjustment															\$0
48	Total Demand deferral	\$459,622	\$557,251	\$394,164	\$10,014	(\$126,153)	(\$731,690)	(\$706,206)	(\$378,823)	(\$35,061.98)	\$101,038	(\$7,674)	\$381,148	(\$82,369)		
49																
50	Demand deferral Beginning Balance	\$731,176	\$1,195,189	\$1,759,618	\$2,164,009	\$1,608,503	\$1,491,698	\$768,967	\$67,378	(\$311,079)	(\$348,009)	(\$248,994)	(\$258,163)	\$121,485		
51	Interest	\$4,391	\$7,178	\$10,227	\$12,996	\$9,348	\$8,958	\$4,618	\$365	(\$1,868)	(\$2,023)	(\$1,495)	(\$1,500)	\$51,195		
52	Account adjustment (balance transfers and other)	\$0.01		\$0.01	(\$578,516)		\$0.01	\$0.01	(\$0.01)	\$0.02	\$0.02		(\$0.01)	(\$578,516)		
53	<b>Demand deferral Ending Balance</b>	<b>\$731,175.77</b>	<b>\$1,195,189</b>	<b>\$1,759,618</b>	<b>\$2,164,009</b>	<b>\$1,608,503</b>	<b>\$1,491,698</b>	<b>\$768,967</b>	<b>\$67,378</b>	<b>(\$311,079)</b>	<b>(\$348,009)</b>	<b>(\$248,994)</b>	<b>(\$258,163)</b>	<b>\$121,485</b>		

**Cascade Natural Gas  
Prior Commodity & Demand Amortization**

Line  
No.

	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	SUM (A:L)		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
1 Current prior amortization rate, \$/therm (source: deferral sheets)															
2															
3 Interest Rate, %, Re: authorizing order 12-437, UG 221	2.630%	2.630%	2.630%	2.630%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%		
4															
5															
6															
7															
8															
9 Commodity therms	2,377,245	2,149,915	2,552,826	3,985,417	6,845,996	10,699,667	16,047,471	12,735,651	12,890,793	8,594,412	7,579,423	5,059,028	91,517,844		
10															
11 Amortization amount, (ln. 9 * ln. 1), \$	\$ (73,671)	\$ (66,626)	\$ (79,112)	\$ (123,508)	\$ (224,261)	\$ (386,365)	\$ (579,474)	\$ (459,884)	\$ (465,487)	\$ (310,344)	\$ (273,693)	\$ (182,682)	\$ (3,225,106)		
12															
13 Interest amount, \$, (ln.11 * ln.3)	\$ 563.01	\$ 399.71	\$ 243.66	\$ 75.61	\$ 3,466.47	\$ 3,349.49	\$ 2,946.12	\$ 2,112.60	\$ 1,856.84	\$ 1,324.42	\$ 1,043.13	\$ 731.60	\$ 18,113		
14															
15 Other adjustments (switchers' amortization, balance transfers, etc.)	\$ -	\$ -	\$ -	\$ 3,490,821.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
16															
17 <b>Commodity amortization balance, \$</b>	<b>\$ 252,054</b>	<b>\$ 178,946</b>	<b>\$ 112,720</b>	<b>\$ 33,851</b>	<b>\$ 3,401,240</b>	<b>\$ 3,180,446</b>	<b>\$ 2,797,431</b>	<b>\$ 2,220,903</b>	<b>\$ 1,763,131</b>	<b>\$ 1,299,501</b>	<b>\$ 990,481</b>	<b>\$ 717,832</b>	<b>\$ 535,882</b>		
18															
19 Demand therms (for nwn, Firm)	-	-	-	-	-	-	-	-	-	-	-	-	\$ -		
20															
21 Demand therms - Interruptible (for nwn)															
22															
23 Amortization amount, (ln. 19 * ln. 1, col. D)+(line 21 * line 1, col E), \$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
24															
25 Interest amount, \$, (ln. 21 * ln. 3)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
26															
27 Other adjustments (switchers' amortization, balance transfers, etc.)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
28															
29 <b>Demand amortization balance, \$</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>		

Cascade Natural Gas  
Development of Gas Cost Related PGA Temporary Rate Increments  
State of Oregon

**REVISED**

Ln No.	Account Description (a)	Order (b)	Class (c)	New or Residual (d)	Account Balance 6/30/2022 (e)	Estimated Thru 10/31/22		Interest Accruals Thru Amortization (h)	Balance for Amortization (i)	Forecasted Therms (j)	Increment (k)	TEMPORARY INCREMENT	
						Interest Accruals (f)	Amortizations & Deferrals (g)					Firm (l)	Interruptible (m)
1	Current Commodity and Demand Deferrals	21-387	Core	New	\$11,764,815			\$86,989	\$ 12,136,975				
2	Commodity Cost Deferrals (47OR.1910.01272) (See Commodity Cost Deferral)	21-387	Core	Residual	\$535,882		\$285,171	\$187	\$ 26,107				
3	Prior gas cost amortization to be included in increment (47OR.1910.01287) (See GC Consolidated Deferral)												
	Subtotal				\$12,300,697		\$286,881	\$87,176	\$12,163,082	91,887,864	0.13237	0.13237	0.13237
4	Demand Cost Deferrals (47OR.1910.01273) (See Demand Cost Deferral)	21-387	Core	New	\$121,485		\$2,921	\$898	\$ 125,304	91,887,864	0.00136	0.00136	0.00136
5	SUBTOTAL AMORTIZATION RATES BEFORE REVENUE SENSITIVE COSTS											0.13373	0.13373
6	REVENUE REQUIREMENT BEFORE REVENUE SENSITIVE COSTS				\$ 12,422,182		\$ 289,802	\$ 88,074	\$ 12,288,386				
7	REVENUE SENSITIVE COST PERCENTAGES:								3.02%			0.03020	0.03020
8	REVENUE REQUIREMENT AFTER REVENUE SENSITIVE COSTS								\$ 12,671,052				
9	PROPOSED AMORTIZATION RATE INCLUDING REVENUE SENSITIVE COSTS											\$ 0.13789	\$ 0.13789
10	NEW WACOG - Commodity (from sch. 4) including revenue sensitive costs											\$ 0.44324	\$ 0.44324
11	NEW Demand Rates (from sch. 5) including revenue sensitive costs											\$ 0.13671	\$ 0.13671
12	NEW Delivered WACOG (gas only) rate including revenue sensitive costs											\$ 0.57995	\$ 0.57995
13	Total Gas Cost Rate before revenue sensitive costs											\$ 0.69616	\$ 0.69616

State:	Oregon
Description:	Core Market Commodity Costs
Account number:	47OR.1910.01272
Class of Customers:	Core
Deferral Period:	7/1/2021 to 6/30/2022
Deferral Account Order:	N/A
Amortization Period:	
Narrative:	Deferral of 90% of the difference between core commodity gas costs actually incurred and the average monthly base commodity gas cost as defined in rate schedule 177-A.

<i>Debit (Credit)</i>								
Month/Year	Rate	Therms	Deferral	Amortization	Interest Rate	Interest	Adjustments	Deferred Balance
Balance Forward								2,843,931.28
Jul-21			(17,843.89)		0.07071	17,079.25	(1,614.82)	2,841,551.83
Aug-21			289,712.24		0.07071	17,064.96	(1,525.58)	3,146,803.44
Sep-21			317,900.00		0.07071	18,288.53	(568.96)	3,482,423.00
Oct-21			917,314.22		0.07071	20,913.72	\$ (1,172.27)	4,419,478.66
					TRANSFER BALANCE TO 01287		(2,912,305.23)	1,507,173.43
Nov-21			908,273.31		0.07071	8,759.36	(340.76)	2,423,865.35
Dec-21			1,966,307.95		0.07071	14,556.54	1,087.51	4,405,817.34
Jan-22			1,966,424.86		0.07071	26,459.17	(3,179.73)	6,395,521.64
Feb-22			1,261,460.37		0.07071	34,691.41	(238.12)	7,691,435.31
Mar-22			776,404.77		0.07071	46,190.97	(271.38)	8,513,759.65
Apr-22			1,174,416.04		0.07071	49,480.11	(1,297.27)	9,736,358.53
May-22			1,066,349.20		0.07071	58,471.77	(10,859.76)	10,850,319.74
Jun-22			852,363.97		0.07071	63,059.68	(928.22)	11,764,815.17
Jul-22 est.			0.00		0.07071	70,653.68		11,835,468.85
Aug-22 est.			0.00		0.07071	71,077.99		11,906,546.83
Sep-22 est.			0.00		0.07071	71,504.85		11,978,051.68
Oct-22 est.					0.07071	71,934.27		12,049,985.95
Nov-22 est.		11,135,831		(1,470,872)	0.01820	18,025.46		10,597,139.24
Dec-22 est.		15,586,398		(2,058,724)	0.01820	16,380.56		8,554,796.13
Jan-23 est.		14,433,846		(1,906,489)	0.01820	13,223.61		6,661,530.46
Feb-23 est.		11,985,458		(1,583,095)	0.01820	9,300.59		5,087,736.21
Mar-23 est.		10,114,492		(1,335,969)	0.01820	7,864.39		3,759,631.62
Apr-23 est.		7,044,126		(930,421)	0.01820	5,624.00		2,834,834.81
May-23 est.		4,331,634		(572,142)	0.01820	4,381.96		2,267,074.47
Jun-23 est.		2,723,708		(359,760)	0.01820	3,391.29		1,910,705.79
Jul-23 est.		2,323,398		(306,885)	0.01820	2,953.48		1,606,774.09
Aug-23 est.		2,304,784		(304,427)	0.01820	2,483.68		1,304,831.21
Sep-23 est.		2,996,932		(395,849)	0.01820	1,951.88		910,934.43
Oct-23 est.		6,907,257		(912,343)	0.01820	1,408.08		(0.00)
Therms Nov-Oct 2023		91,887,864			Balance at end of Amort Period:			(0.00)
Development of Amortization Rate					Amort Rate to Achieve This:			(0.13208)
June 30, 2022 Balance							11,764,815.17	
Interest through Oct 31, 2022							285,170.79	
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)							86,988.97	
Balance to Amortize							<u>12,136,974.93</u>	
							(0.13208)	

State:	Oregon
Description:	OR 11/01/16 Consolidated Accounts: Gas Cost Related PGA Temporary Rate Increments
Account number:	47OR.1910.01287
Class of Customers:	Core
Deferral Period:	
Deferral Account Order:	
Amortization Period:	11/1/2021 through 10/31/2022
Narrative:	This records the consolidated deferral accounts corresponding to the temporary technical adjustments included in the PGA tracker effective 11/1/2016 that are incorporated into the customers' per therm gas rates through schedule 191.

Month/Year	Rate	Therms	Deferral	Amortization	Debit (Credit)		Adjustments	Deferred Balance
					Interest Rate	Interest		
Oct-21	Balance Forward							3,401,240.36
Nov-21	Prorated	6,845,996		(224,260.58)	0.01240	3,466.47		3,180,446.25
Dec-21	(0.036110)	10,699,667		(386,364.98)	0.01240	3,349.49	0.01	2,797,430.77
Jan-22	(0.036110)	16,047,471		(579,474.18)	0.01240	2,946.12		2,220,902.71
Feb-22	(0.036110)	12,735,651		(459,884.35)	0.01240	2,112.60		1,763,130.96
Mar-22	(0.036110)	12,890,793		(465,486.54)	0.01240	1,856.84	(0.01)	1,299,501.26
Apr-22	(0.036110)	8,594,412		(310,344.22)	0.01240	1,324.42		990,481.46
May-22	(0.036110)	7,579,423		(273,692.96)	0.01240	1,043.13	0.01	717,831.63
Jun-22	(0.036110)	5,059,028		(182,681.50)	0.01240	731.60		535,881.73
Jul-22	est. (0.036110)	2,250,299		(81,258.30)	0.01240	564.36		455,187.80
Aug-22	est. (0.036110)	2,231,746		(80,588.35)	0.01240	479.38		375,078.83
Sep-22	est. (0.036110)	2,931,096		(105,841.88)	0.01240	382.27		269,619.23
Oct-22	est. (0.036110)	6,756,673		(243,983.46)	0.01240	283.95		25,919.72
Nov-22	est. (0.00028)	11,135,831		(3,163.87)	0.01820	38.77		22,794.62
Dec-22	est. (0.00028)	15,586,398		(4,428.35)	0.01820	35.23		18,401.51
Jan-23	est. (0.00028)	14,433,846		(4,100.89)	0.01820	28.44		14,329.06
Feb-23	est. (0.00028)	11,985,458		(3,405.26)	0.01820	20.01		10,943.81
Mar-23	est. (0.00028)	10,114,492		(2,873.69)	0.01820	16.92		8,087.03
Apr-23	est. (0.00028)	7,044,126		(2,001.35)	0.01820	12.10		6,097.78
May-23	est. (0.00028)	4,331,634		(1,230.69)	0.01820	9.43		4,876.52
Jun-23	est. (0.00028)	2,723,708		(773.85)	0.01820	7.29		4,109.96
Jul-23	est. (0.00028)	2,323,398		(660.11)	0.01820	6.35		3,456.20
Aug-23	est. (0.00028)	2,304,784		(654.83)	0.01820	5.34		2,806.72
Sep-23	est. (0.00028)	2,996,932		(851.48)	0.01820	4.20		1,959.44
Oct-23	est. (0.00028)	6,907,257		(1,962.46)	0.01820	3.03		0.00
2022/23 PGA Year Therms		91,887,864					Balance at end of Amort Period:	0.00
							Amort Rate to Achieve This:	(0.00028)

**Development of Amortization Rate**

June 30, 2022 Balance	535,881.73
Interest through Oct 31, 2022	1,709.97
Amortizations through Oct 31, 2022	(511,671.98)
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)	187.11
Balance to Amortize	<u>26,106.83</u>
	(0.00028)

State:	Oregon
Description:	Core Market Demand & Gas Storage Mitigation Costs
Account number:	47OR.1910.01273
Class of Customers:	Core
Deferral Period:	7/1/2021 to 6/30/2022
Deferral Account Order:	N/A
Amortization Period:	N/A
Narrative:	This records the deferral of the differences between core demand costs actually incurred and the embedded demand costs collected in the tariffs as well as the Tenaska capacity reservation and gas storage mitigation costs based on therms.

Month/Year	Rate	Therms	Deferral	Amortization	Debit (Credit)		Adjustments	Deferred Balance
					Interest Rate	Interest		
Balance Forward								731,175.77
Jul-21			459,622.50		0.07071	4,391.08		1,195,189.35
Aug-21			557,250.94		0.07071	7,177.72		1,759,618.01
Sep-21			394,164.46		0.07071	10,226.51		2,164,008.98
Oct-21			10,014.13		0.07071	12,995.97		2,187,019.08
						TRANSFER BALANCE TO 01287	(578,516.17)	1,608,502.91
Nov-21			(126,153.29)		0.07071	9,348.27		1,491,697.89
Dec-21			(731,689.54)		0.07071	8,958.40		768,966.75
Jan-22			(706,206.44)		0.07071	4,618.04		67,378.35
Feb-22			(378,823.18)		0.07071	365.48	0.01	(311,079.34)
Mar-22			(35,061.96)		0.07071	(1,868.19)		(348,009.49)
Apr-22			101,038.20		0.07071	(2,022.55)	0.01	(248,993.84)
May-22			(7,673.58)		0.07071	(1,495.33)		(258,162.75)
Jun-22			381,148.42		0.07071	(1,500.39)	(0.01)	121,485.27
Jul-22 est.					0.07071	729.58		122,214.85
Aug-22 est.					0.07071	733.96		122,948.81
Sep-22 est.					0.07071	714.55		123,663.37
Oct-22 est.					0.07071	742.66		124,406.03
Nov-22 est.		11,135,831		(15,185.53)	0.01820	186.10		109,406.60
Dec-22 est.		15,586,398		(21,254.60)	0.01820	169.12		88,321.11
Jan-23 est.		14,433,846		(19,682.91)	0.01820	136.52		68,774.72
Feb-23 est.		11,985,458		(16,344.13)	0.01820	96.02		52,526.61
Mar-23 est.		10,114,492		(13,792.76)	0.01820	81.19		38,815.05
Apr-23 est.		7,044,126		(9,605.82)	0.01820	58.06		29,267.29
May-23 est.		4,331,634		(5,906.89)	0.01820	45.24		23,405.64
Jun-23 est.		2,723,708		(3,714.22)	0.01820	35.01		19,726.43
Jul-23 est.		2,323,398		(3,168.33)	0.01820	30.49		16,588.60
Aug-23 est.		2,304,784		(3,142.95)	0.01820	25.64		13,471.29
Sep-23 est.		2,996,932		(4,086.81)	0.01820	20.15		9,404.63
Oct-23 est.		6,907,257		(9,419.17)	0.01820	14.54		(0.00)
2022/23 PGA Year Therms		91,887,864				Balance at end of Amort Period:		(0.00)
						Amort Rate to Achieve This:		(0.001364)
Development of Amortization Rate								
June 30, 2022 Balance							121,485.27	
Interest through Oct 31, 2022							2,920.76	
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)							898.09	
							<u>125,304.12</u>	
								(0.001364)

Cascade Natural Gas Corporation

2022-2023 PGA

**New WACOG Commodity**

**REVISED**

**SYSTEM COSTS**

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
			November	December	January	February	March	April	May	June	July	August	September	October	TOTAL
4 <b>COSTS</b>															
5 Supply Commodity Cost			\$4,751,645	\$6,466,321	\$5,960,577	\$5,110,747	\$4,334,678	\$2,900,018	\$1,788,609	\$956,146	\$664,016	\$688,971	\$1,036,843	\$2,849,442	\$37,508,014
6 tab IV-4 Phys resources, row 935, columns G to S															
7 Volumetric Pipeline Chgs			\$ 31,022.95	\$ 36,645.53	\$ 34,758.63	\$ 32,134.77	\$ 30,156.89	\$ 27,502.62	\$ 3,644.66	\$ 2,242.78	\$ 1,865.75	\$ 1,859.58	\$ 2,428.54	\$ 5,661.20	\$ 209,924
8 tab OR Pipeline Comm Costs by Month, row 30 & 58 D to O															
9 Commodity Cost from Storage			\$93,275	\$556,446	\$684,937	\$373,382	\$72,266	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 1,780,306
10 tab V4-7-g Stor Flow & Avg Cost, row 63, column e through p															
11 Other Costs & Miscellaneous Changes			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12															
13 Total Commodity Cost			\$4,875,943	\$7,059,413	\$6,680,273	\$5,516,264	\$4,437,101	\$2,927,520	\$1,792,253	\$958,388	\$665,882	\$690,831	\$1,039,272	\$2,855,104	\$39,498,244
14															
15 <b>VOLUMES</b>															
16 Pipeline Commodity at Receipt Points			10,730,727	14,057,923	12,676,180	11,149,316	10,130,106	7,212,703	4,510,403	2,863,582	2,444,594	2,447,141	3,139,470	6,977,430	88,339,575
17 Pipeline Fuel Use/Unaccounted for Gas			216,511	332,966	229,869	38,073	(149,876)	(168,577)	(178,769)	(139,874)	(121,196)	(142,357)	(142,538)	(70,173)	(295,941)
18 Total Pipeline Gas Arriving at City Gate			10,947,238	14,390,889	12,906,049	11,187,389	9,980,230	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	88,043,634
19 Storage Gas Deliveries			188,593	1,195,509	1,527,797	798,069	134,262	0	0	0	0	0	0	0	3,844,230
20 Total Gas At Citygate (Storage and Pipeline)			11,135,831	15,586,398	14,433,846	11,985,458	10,114,492	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	91,887,864
21															
22															
23															
24 Load Served			11,135,831	15,586,398	14,433,846	11,985,458	10,114,492	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	91,887,864
25															
26 <b>Annual Sales WACOG</b>															\$0.42985
27															
28 <b>OREGON Sales WACOG with Revenue Sensitive</b>															\$0.44324

Cascade Natural Gas Corporation  
 2022-2023 PGA - OREGON  
 Derivation of Oregon per Therm Non-Commodity Charges

**REVISED**

**Oregon Derivation of Demand Increments**

	(a)	(b)	Without Revenue Sensitive (c)	With Revenue Sensitive (d)
1				
2				
3				
4	System Demand for Allocation		\$ 56,082,060	
5	Oregon Allocation Factor (Based on Peak Day)		18.10%	
6	Oregon Allocated Demand Costs		\$10,151,136	
7	Ruby Demand for Allocation		\$2,025,000	
8	Oregon Allocation Factor (Based Non-NWP Allocation)		89.13%	
9	Oregon Ruby Allocated System Demand		\$1,804,960	
10	Hedging Admin Costs		\$4,639	
11	Plus Demand Costs -Central Oregon		\$1,276,433	
12	Less Oregon Capacity Release Credits		(\$1,054,905)	
13	<b>OREGON DEMAND COSTS</b>		<b>\$12,182,262</b>	<b>\$ 12,561,623</b>
14				
15	Oregon Sales Forecasted Normal Volumes		91,887,864	91,887,864
16				
17	<b>Proposed Demand Increment Per Therm (line 12/line 14)</b>		<b>\$0.13258</b>	<b>\$0.13671</b>
18				
19	Current Firm Demand Per Therm		\$0.14550	\$0.15009
20				
21	Percent Change in Firm Demand		-8.88%	-8.91%
22				
23				
24	1/Allocation Factor: Forecasted Peak Volumes (excl. Central Oregon):			
25		<u>Washington</u>	<u>Oregon</u>	<u>System</u>
26				
27	Total Peak	1,865,726	804,853	2,670,579
28	Less Central Oregon		577,405	
29	Peak Day Capacity	1,865,726	227,448.04	2,093,174
30	Allocation Factor	89.13%	10.87%	100.00%

Cascade Natural Gas Corporation  
2022-2023 PGA - OREGON  
Summary of Rate and Revenue Impact

**REVISED**

(a)	(b)	Without Revenue Sensitive (c)	With Revenue Sensitive (d)
<b>PROPOSED PER THERM RATE CHANGES</b>			
1 Proposed Commodity WACOG		0.42985	0.44324
2 Current Commodity WACOG		0.27260	0.28120
3 <b>Proposed Rate Change-Commodity WACOG</b>		<b>0.15725</b>	<b>0.16204</b>
4			
5 Proposed Firm Demand Per Therm		0.13258	0.13671
6 Current Firm Demand Per Therm		0.14550	0.15009
7 <b>Proposed Rate Change-Firm Demand WACOG</b>		<b>(0.01292)</b>	<b>(0.01338)</b>
8			
9 Proposed Temporary Rate Increment		0.13373	0.13789
10 Current Temporary Rate Increment		0.03611	0.03725
11 <b>Proposed Rate Change-Temporary Rate Increment</b>		<b>0.09762</b>	<b>0.10064</b>
12			
13 <b>TOTAL PROPOSED PGA RATE CHANGE</b>			<b>0.24930</b>
14			
15 Oregon Forecasted Therm Sales		91,887,864	
16			
17 <b>REVENUE IMPACT</b>			
18			
19 Commodity Cost Change			14,889,509
20 Demand Cost Change			(1,229,460)
21 Amortization of Commodity and Demand Cost Differences			9,248,000
22			
23 <b>Total Revenue Impact Due to PGA Filing</b>			<b>22,908,050</b>
24			
25 Operating Revenues for 12 Month Period Ending 12/31/21			77,563,145
26			
27 PERCENTAGE CHANGE IN REVENUES DUE TO PGA FILING			29.53%

**Before the**  
**PUBLIC UTILITY COMMISSION OF OREGON**

**EXHIBIT 2**

**Summary of Proposed Changes**

Summary of Total Proposed Rates (Schedule 1 of 4)  
Total Proposed Rates Impact on Average Bill by Rate Schedule (Schedule 2 of 4)  
Notice to the Public (Schedule 3 of 4)  
What is a PGA (Schedule 4 of 4)

**Cascade Natural Gas Corporation**

**September 15, 2022**

**Cascade Natural Gas Corporation**  
**SUMMARY OF TOTAL PROPOSED RATES**  
**STATE OF OREGON**  
**REVISED**

Ln No.	Customer Class	Schedule	Block	Current 10/1/2022 Rate (d)	Total Proposed Changes				Total Change (i) = e thru h	Proposed 11/1/2022 Rate (j) = d + i
					PGA Base Gas Cost (e)	CAP Baseline Adj (f)	Non Gas Cost Temporary Rate Adj			
	(a)	(b)	(c)				Remove 21 (g)	Add New (h)		
<b>CORE MARKET SERVICE</b>										
1	Residential	101		\$0.85488	\$0.24930		\$0.00143	(\$0.00736)	\$0.24337	\$1.09825
2	Commercial	104		\$0.74161	\$0.24930		\$0.00432	(\$0.01699)	\$0.23663	\$0.97824
3	Com-Ind Dual	111		\$0.63289	\$0.24930		(\$0.00088)	\$0.00022	\$0.24864	\$0.88153
4	Industrial Firm	105		\$0.71567	\$0.24930		(\$0.00088)	\$0.00022	\$0.24864	\$0.96431
5	Industrial Interruptible	170		\$0.59508	\$0.24930		(\$0.00088)	\$0.00022	\$0.24864	\$0.84372
<b>NONCORE MARKET SERVICE</b>										
6	Distribution Transportation	163	First 10,000	\$0.13044	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.12978
7	Distribution Transportation	163	Next 10,000	\$0.11788	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.11722
8	Distribution Transportation	163	Next 30,000	\$0.11088	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.11022
9	Distribution Transportation	163	Next 50,000	\$0.06891	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.06825
10	Distribution Transportation	163	Next 400,000	\$0.03600	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.03534
11	Distribution Transportation	163	Next 500,000	\$0.02027	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.01961
			Over 1,000,000	\$0.00400	\$0.00000	\$0.00000	(\$0.00088)	\$0.00022	(\$0.00066)	\$0.00334

**Cascade Natural Gas Corporation**  
**TOTAL PROPOSED RATES IMPACT ON AVERAGE BILL BY RATE SCHEDULE**  
**STATE OF OREGON**

Ln No.	Customer Class	Schedule	Therms in Block	Normalized Volumes	Average Customers	Therms Per Month	Monthly Charge	REVISD		Total Proposed 11/1/2022 Rate	Total Proposed Avg Bill	Monthly Change in Avg Bill	Proposed Rates % Change
								Current 10/1/2022 Rate	Current Avg Bill				
						= d / e / 12	(g)	(h)	(i)	(j)	(k)	(l)	(m)
									= g + (f * h)		= g + (f * j)		= l / i
<b>CORE MARKET SERVICE</b>													
1	Residential	101		52,212,677	70,250	62	* \$6.81	\$0.85488	\$59.81	\$1.09825	\$74.90	\$15.09	25.23%
2	Commercial	104		33,888,652	10,378	272	\$12.00	\$0.74161	\$213.72	\$0.97824	\$278.08	\$64.36	30.12%
3	Com-Ind Dual	111		2,973,438	21	11,942	\$144.00	\$0.63289	\$7,701.97	\$0.88153	\$10,671.23	\$2,969.26	38.55%
4	Industrial Firm	105		3,167,300	159	1,657	\$35.00	\$0.71567	\$1,220.87	\$0.96431	\$1,632.86	\$412.00	33.75%
5	Industrial Interruptible	170		2,630,444	4	54,801	\$300.00	\$0.59508	\$32,910.98	\$0.84372	\$46,536.70	\$13,625.72	41.40%
<b>NONCORE MARKET SERVICE</b>													
6	Distribution Transportation	163	10,000	3,463,512	33		\$625.00	\$0.13044	\$1,929.40	\$0.12978	\$1,922.80		
7	Distribution Transportation	163	10,000	2,853,254				\$0.11788	\$1,178.80	\$0.11722	\$1,172.20		
8	Distribution Transportation	163	30,000	4,758,368				\$0.11088	\$3,326.40	\$0.11022	\$3,306.60		
9	Distribution Transportation	163	50,000	4,551,732				\$0.06891	\$2,510.83	\$0.06825	\$2,486.79		
10	Distribution Transportation	163	400,000	16,746,519				\$0.03600		\$0.03534			
11	Distribution Transportation	163	500,000	1,509,695				\$0.02027		\$0.01961			
12	Total		Over 1,000,000	0				\$0.00400		\$0.00334			
13				33,883,080		86,436			\$8,945.43		\$8,888.39	(\$57.05)	-0.64%
14								Overall	\$51,052.78		\$68,082.16	\$17,029.38	33.36%
15	* includes the EDP monthly charge												

**DRAFT**

**Advice No. CNG\O22-07-02**

**Cascade Natural Gas Corporation**

**NOTICE TO THE PUBLIC**

**Oregon Service Area**

Cascade Natural Gas Corporation is on this date filing with the Oregon Public Utility Commission (OPUC) at Salem, Oregon, revisions to Rate Schedule Nos. 177, 191, 192, and 193, which upon approval by the Commission will become effective November 1, 2022.

The rate adjustments proposed in this filing are designed to pass on 1.) changes in the cost of gas and transportation services paid by Cascade to gas suppliers and interstate natural gas pipelines, temporary differences in purchased gas costs, that occur over time, as a result of differences between the actual cost of gas paid by the Company and the amount allowed for in Core customer rates, and removal of certain temporary technical deferral adjustment; and 2.) changes resulting from the Company's Conservation Alliance Plan and Intervenor Funding.

The overall effect of the proposed rate adjustments on the monthly bill of a residential customer with consumption of 62 therms will be a net increase of \$15.09 or 25.23%. For small commercial customers, the increase in the monthly bill for consumption of 272 therms will be \$64.36 or 30.12%. Large volume core customers will experience an average increase of 33.75% depending on monthly volumes consumed. Large volume interruptible customers will experience an average increase of 41.40%. Large volume non-core customers will experience an average decrease of 0.64% for distribution service from Cascade depending on the monthly volumes consumed.

The filing may be found on the Company's website: [www.cngc.com](http://www.cngc.com). Hardcopies of the filings are available for inspection upon request. For additional information, please call the Company at 888-522-1130 or write to: Cascade Natural Gas Corporation, 8113 W. Grandridge Blvd, Kennewick, WA 99336-7166.

For additional information about this proceeding, including hearing dates, please call the Commission at 800-522-2404 or send written questions to:  
Public Utility Commission of Oregon, PO Box 1088, Salem, OR 97308-1088

Date: October 1, 2022

# WHAT IS A PGA?



In the natural gas industry, a **Purchased Gas Adjustment (PGA)** is designed to reflect the actual costs of gas supplies in customers' bills. A PGA filing does not affect a company's profits.

Each year, Cascade Natural Gas Corporation makes the best possible projection of the cost of gas supplies for the coming year. Any differences between the gas costs included in the company's overall rates and the actual cost of supplies are calculated and passed back to customers in the next PGA filing.

If actual gas costs are lower than originally projected, customers will see lower rates. If gas costs are higher, rates will go up.

Based on projected gas costs, Cascade Natural Gas is anticipating an increase to rates for Washington and Oregon customers in its PGA filings. Customers are encouraged to use energy wisely and continue conservation efforts.

To learn how to be more energy efficient, visit [www.cngc.com/energy-efficiency](http://www.cngc.com/energy-efficiency).



*In the Community to Serve®*

Schedule 4 of 4

[www.cngc.com](http://www.cngc.com)  
888-522-1130



**Before the  
PUBLIC UTILITY COMMISSION OF OREGON**

**EXHIBIT 3**

**Attachments to Staff's Public Meeting Memos**

Attachment A - Incremental Change to Revenue by Rate Schedule

Attachment B - Incremental Change to Revenue by Adjustment

Attachment C - Three Percent Test

Attachment D - Bill Impacts

Attachment E – PGA Summary

**Cascade Natural Gas Corporation**

**September 15, 2022**

**Cascade Natural Gas  
2022 PGA  
Incremental Revenue Change by Customer Rate Schedule  
Attachment A**

REVISED						
Customer Rate Schedule	Description	Gas Cost & Adjustment Schedule Total Revenue at Current <sup>1</sup>	Gas Cost & Adjustment Schedule Total Revenue at Proposed	Total Incremental Change in Revenue	Incremental Percentage Change by Rate Schedule	Percent Contribution to Total Incremental Change
101	Residential	43,071,488	55,235,263	12,163,775	28.24%	54.87%
104	Commercial	24,067,962	31,795,234	7,727,271	32.11%	34.86%
105	Industrial	2,300,012	3,103,582	803,571	34.94%	3.62%
111	Large Volume	1,997,720	2,785,480	787,760	39.43%	3.55%
170	Interruptible	1,692,502	2,401,951	709,449	41.92%	3.20%
163	Transportation	2,221,190	2,198,827	(22,363)	-1.01%	-0.10%
		75,350,873	97,520,336	22,169,463	29.42%	100.00%

**Notes:**

<sup>1</sup> Revenue at "Current" does not reflect current revenues, but rather what the revenues would be if existing rates continued to be in effect during the upcoming year (i.e. current rates times forecasted therms). There will be small differences with the Advice filings.

Customer Schedule No.	Rate Class Type	Block	Adjustment Tariff No. 177.2 PGA Gas Costs WACOG		Margin (Base Rate) 101/104/105/111/170/163		Adjustment Tariff No. 191 Temporary Gas		Adjustment Tariff No. 192 Intervenor		Adjustment Tariff No. 193 Conservation		2022-2023		Revenue at Current	Revenue at Proposed	Change in Revenue	
			Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Forecast Therms	Revenue at Current			Revenue at Proposed	Change in Revenue
101	Residential		\$ 0.43129	\$ 0.57995	\$ 0.39467	\$ 0.39467	\$ 0.03725	\$ 0.13789	\$ 0.00107	\$ 0.00088	\$ (0.00250)	(0.00824)	49,979,679	\$43,071,488	\$55,235,263	\$12,163,775	28.24%	
104	Commercial		\$ 0.43129	\$ 0.57995	\$ 0.27282	\$ 0.27282	\$ 0.03725	\$ 0.13789	\$ -	\$ -	\$ (0.00432)	(0.01699)	32,654,893	\$24,067,962	\$31,795,234	\$7,727,271	32.11%	
105	Industrial		\$ 0.43129	\$ 0.57995	\$ 0.24226	\$ 0.24226	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,231,806	\$2,300,012	\$3,103,582	\$803,571	34.94%	
111	Large Volume		\$ 0.43129	\$ 0.57995	\$ 0.16113	\$ 0.16113	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,168,218	\$1,997,720	\$2,785,480	\$787,760	39.43%	
170	Interruptible		\$ 0.43129	\$ 0.57995	\$ 0.12376	\$ 0.12376	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	2,853,268	\$1,692,502	\$2,401,951	\$709,449	41.92%	
163	Transportation	Block 1	\$ -	\$ -	\$ 0.12833	\$ 0.12833	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,463,512	\$447,520	\$445,234	(\$2,286)	-0.51%	
		Block 2	\$ -	\$ -	\$ 0.11577	\$ 0.11577	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	2,853,254	\$332,832	\$330,949	(\$1,883)	-0.57%	
		Block 3	\$ -	\$ -	\$ 0.10877	\$ 0.10877	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	4,758,368	\$521,755	\$518,615	(\$3,141)	-0.60%	
		Block 4	\$ -	\$ -	\$ 0.06680	\$ 0.06680	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	4,551,732	\$308,061	\$305,057	(\$3,004)	-0.98%	
		Block 5	\$ -	\$ -	\$ 0.03389	\$ 0.03389	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	16,746,519	\$582,276	\$571,224	(\$11,053)	-1.90%	
		Block 6	\$ -	\$ -	\$ 0.01816	\$ 0.01816	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	1,509,695	\$28,745	\$27,748	(\$996)	-3.47%	
		Block 7	\$ -	\$ -	\$ 0.00189	\$ 0.00189	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	-	\$0	\$0	\$0	0.00%	
163	Transportation Total												\$2,221,190	\$2,198,827	(\$22,363)	-1.01%		

**Cascade Natural Gas  
2022 PGA  
Incremental Revenue Change by Adjustment Schedule  
Attachment B**

**REVISED**

Adjustment Schedule No. & Description	Gas Cost & Adjustment Schedule Revenue at Current <sup>1</sup>	Gas Cost & Adjustment Revenue at Proposed	Total Incremental Change in Revenue	% Contribution to Total Incremental Change
177-A                      PGA	\$39,630,318	\$53,290,367	\$13,660,049	61.62%
191                      Temporary Gas Cost Adj	\$3,422,823	\$12,670,823	\$9,248,000	41.72%
192                      Intervenor Funding	\$91,439	\$53,472	(\$37,967)	-0.17%
193                      CAP	(\$266,018)	(\$966,640)	(\$700,622)	-3.16%
Margin	\$32,444,897	\$32,444,897	\$0	0.00%
Total	\$75,323,459	\$97,492,919	\$22,169,460	100.00%

**Note:**

<sup>1</sup> Revenue at "Current" does not reflect current revenues, but rather what the revenues would be if existing rates continued to be in effect during the upcoming year (i.e. current rates times forecasted therms). There will be small differences with the Advice filings.

REVISED		Adjustment Schedule No.		2022-2023									
Advice No.	Description	Schedule No.	Rate Class	Type	Block	Current Rate	Proposed Rate	Proposed Therms	Revenue at Current	Revenue at Proposed	Change in Revenue	Percent Change in Annual Revenues	
		101	Residential			\$ 0.43129	0.57995	49,979,679	\$21,555,736	\$28,985,715	\$7,429,979		
		104	Commercial			\$ 0.43129	0.57995	32,654,893	\$14,083,729	\$18,938,205	\$4,854,476		
		105	Industrial			\$ 0.43129	0.57995	3,231,806	\$1,393,846	\$1,874,286	\$480,440		
		111	Large Volume			\$ 0.43129	0.57995	3,168,218	\$1,366,421	\$1,837,408	\$470,987		
		170	Interruptible			\$ 0.43129	0.57995	2,853,268	\$1,230,586	\$1,654,753	\$424,167		
<b>Advice No. O22-07-02</b>	<b>177-A - PGA</b>							<b>Total</b>	<b>\$39,630,318</b>	<b>\$53,290,367</b>	<b>\$13,660,049</b>	<b>17.6%</b>	
		101	Residential			\$ 0.03725	0.13789	49,979,679	\$1,861,743	\$6,891,918	\$5,030,175		
		104	Commercial			\$ 0.03725	0.13789	32,654,893	\$1,216,395	\$4,502,927	\$3,286,532		
		105	Industrial			\$ 0.03725	0.13789	3,231,806	\$120,385	\$445,648	\$325,263		
		111	Large Volume			\$ 0.03725	0.13789	3,168,218	\$118,016	\$436,880	\$318,864		
		170	Interruptible			\$ 0.03725	0.13789	2,853,268	\$106,284	\$393,450	\$287,166		
<b>Advice No. O22-07-02</b>	<b>191-Temp Gas Cost</b>							<b>Total</b>	<b>\$3,422,823</b>	<b>\$12,670,823</b>	<b>\$9,248,000</b>	<b>11.9%</b>	
		101	Residential			\$ 0.00107	0.00088	49,979,679	\$53,478	\$43,982	(\$9,496)		
		104	Commercial			\$ -	0.00000	32,654,893	\$0	\$0	\$0		
		105	Industrial			\$ 0.00088	0.00022	3,231,806	\$2,844	\$711	(\$2,133)		
		111	Large Volume			\$ 0.00088	0.00022	3,168,218	\$2,788	\$697	(\$2,091)		
		170	Interruptible			\$ 0.00088	0.00022	2,853,268	\$2,511	\$628	(\$1,883)		
		163	Distribution		Block 1	\$ 0.00088	0.00022	3,463,512	\$3,048	\$762	(\$2,286)		
					Block 2	\$ 0.00088	0.00022	2,853,254	\$2,511	\$628	(\$1,883)		
					Block 3	\$ 0.00088	0.00022	4,758,368	\$4,187	\$1,047	(\$3,140)		
					Block 4	\$ 0.00088	0.00022	4,551,732	\$4,006	\$1,001	(\$3,005)		
					Block 5	\$ 0.00088	0.00022	16,746,519	\$14,737	\$3,684	(\$11,053)		
					Block 6	\$ 0.00088	0.00022	1,509,695	\$1,329	\$332	(\$997)		
					Block 7	\$ 0.00088	0.00022	0	\$0	\$0	\$0		
<b>Advice No. O22-07-03</b>	<b>192 - Intervenor</b>							<b>Total</b>	<b>\$91,439</b>	<b>\$53,472</b>	<b>(\$37,967)</b>	<b>-0.05%</b>	
		101	Residential			\$ (0.00250)	(0.00824)	49,979,679	(\$124,949)	(\$411,833)	(\$286,884)		
		104	Commercial			\$ (0.00432)	(0.01699)	32,654,893	(\$141,069)	(\$554,807)	(\$413,738)		
<b>Advice No. O22-07-04</b>	<b>193 - CAP</b>							<b>Total</b>	<b>(\$266,018)</b>	<b>(\$966,640)</b>	<b>(\$700,622)</b>	<b>-0.90%</b>	
		101	Residential			\$ 0.39467	0.39467	49,979,679	\$19,725,480	\$19,725,480	\$0		
		104	Commercial			\$ 0.27282	0.27282	32,654,893	\$8,908,908	\$8,908,908	\$0		
		105	Industrial			\$ 0.24226	0.24226	3,231,806	\$782,937	\$782,937	\$0		
		111	Large Volume			\$ 0.16113	0.16113	3,168,218	\$510,495	\$510,495	\$0		
		170	Interruptible			\$ 0.12376	0.12376	2,853,268	\$353,120	\$353,120	\$0		
		163	Distribution		Block 1	\$ 0.12833	0.12833	3,463,512	\$444,472	\$444,472	\$0		
					Block 2	\$ 0.11577	0.11577	2,853,254	\$330,321	\$330,321	\$0		
					Block 3	\$ 0.10877	0.10877	4,758,368	\$517,568	\$517,568	\$0		
					Block 4	\$ 0.06680	0.06680	4,551,732	\$304,056	\$304,056	\$0		
					Block 5	\$ 0.03389	0.03389	16,746,519	\$567,540	\$567,540	\$0		
					Block 6	\$ 0.00189	0.00189	0	\$0	\$0	\$0		
<b>Advice No.</b>	<b>Margin</b>							<b>Total</b>	<b>\$32,444,897</b>	<b>\$32,444,897</b>	<b>\$0</b>		

**Cascade Natural Gas  
2022-2023 PGA  
Three Percent Test  
Attachment C**

	<u>Surcharge</u>	<b>REVISED</b> <u>Credit</u>	
<b>Prior Period Gas Cost Deferral True-Up</b>	12,671,052		
 <b><u>Non-Gas Cost Amortizations</u></b>			
Intervenor Funding	\$53,158		
Other Residuals			
Decoupling		(966,833)	
Subtotal	<u>53,158</u>	(966,833)	
Total	12,724,210	(966,833)	
<b>Total Proposed Amortization</b>			<b>\$11,757,377</b>
Less: Intervenor Funding <sup>1</sup>			\$53,158
<b>Net Proposed Amortizations (subject to the 3% test)</b>			<b>\$11,704,219</b>
<b>Utility Gross Revenues (2021)</b>			\$77,563,145
<b>3% of Utility Gross Revenues<sup>2</sup></b>			\$2,326,894
<b>Allowed Amortization</b>			<b>\$11,704,219</b>
<b>Allowed Amortization as % of Gross Revenues</b>			<b>15.09%</b>

<sup>1</sup> Intervenor Funding is excluded from the result of the 3% test pursuant to ORS 757.259(4)

<sup>2</sup> Unadjusted general revenues as shown in the most recent Results of Operation.

**Proposed Rate & Bill Increases for ALL Oregon Local Distribution Companies by Class of Service  
2022-2023 PGA  
Attachment D**

**REVISED**

Class of Service	Rate Schedule	RATE IMPACTS*			
		Current Rate per Therm	Proposed Rate per Therm	Change Rate per Therm	%-Change Rate per Therm
<b>Residential</b>					
Avista	410	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	101	\$0.85488	\$1.09825	\$0.24337	28.47%
NW Natural	2	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
<b>Commercial</b>					
Avista	420	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	104	\$0.74161	\$0.97824	\$0.23663	31.91%
NW Natural	3	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
<b>Industrial</b>					
Avista	424	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	105	\$0.71567	\$0.96431	\$0.24864	34.7%
NW Natural	31ISF	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
<b>Interruptible</b>					
Avista	440	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	170	\$0.59508	\$0.84372	\$0.24864	41.8%
NW Natural	32ISI	\$0.00000	\$0.00000	\$0.00000	#DIV/0!

RESIDENTIAL BILL IMPACTS																
Class of Service	Rate Schedule	Average	Current	Proposed	Change	%-Change	Annual	Current	Proposed	Change	%-Change	Current	Proposed	Change	%-Change	
		January	January	January	January	January	Therms/	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
		Therms	Bill	Bill	Bill	Bill	Month	Charge	Bill	Bill	Bill	Bill	Bill	Bill	Bill	Bill
Avista	410	0	\$0.00	\$0.00	\$0.00	#DIV/0!	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	#DIV/0!
Cascade	101	121	\$6.81	\$110.25	\$139.70	26.71%	62	\$6.81	\$59.81	\$74.90	\$15.09	\$15.09	\$74.90	\$15.09	25.23%	25.23%
NW Natural	2	0	\$0.00	\$0.00	\$0.00	#DIV/0!	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	#DIV/0!

\* The residential rates illustrated above do not include pass-through charges included on customer bills that utilities are required to collect and distribute to the appropriate third parties, such as for franchise fees or the Public Purposes Charge.

Cascade Natural Gas Corporation  
2022 PGA  
PGA Summary Sheet  
Attachment E

		Location in Company Filing (cite)
<b>1) Change in Annual Revenues</b>		
(Per OAR 860-022-0017(3)(a))		
A) Dollars (To .1 million)	\$22,169,460	B-2 Detail by Adjustment Schd
B) Percent (To .1 percent)	28.58%	1 A) /Utility Gross Revenues (2021)
<b>2) Annual Revenues Calculation (Whole Dollars)</b>		
A) PGA Cost Change (Commodity & Transportation)	\$13,660,049	B-2 Detail by Adjustment Schd
B) Remove Last Year's Temporary Increment Total	(\$3,422,823)	Summary Rate-Rev Impact
C) Add New Temporary Increment	\$12,670,823	Summary Rate-Rev Impact
D) Other Additions or Subtractions (Break out & List each below -- Attach additional sheet if necessary)		
E) Total Proposed Change due to PGA change only	\$22,908,049	Total of items A, B, C, & D
<b>3) Residential Bill Effects Summary (incl. Non-Gas Cost Impacts)</b>		
A) Residential Schedule 2 Rate Impacts		
1) Current Billing Rate per Therm	\$0.85488	D - Proposed Rate & Bill
2) Proposed Billing Rate per Therm	\$1.09825	D - Proposed Rate & Bill
3) Rate Change Per Therm	\$0.24337	D - Proposed Rate & Bill
4) Percent Change per Therm (to .1%)	28.5%	Item 3 divided by Item 1
B) Average Residential Bill Impact (forecasted weather-normalized annual)		
1) Average Residential Monthly Therm Use	62	Total Proposed Avg Bill , Line 1, Col. (f)
2) Monthly Charge	\$6.81	Total Proposed Avg Bill , Line 1, Col. (g)
3) Current Average Monthly Bill	\$59.81	Total Proposed Avg Bill , Line 1, Col. (i)
4) Proposed Average Monthly Bill	\$74.90	Total Proposed Avg Bill , Line 1, Col. (k)
5) Change in Average Monthly Bill	\$15.09	Total Proposed Avg Bill , Line 1, Col. (l)
6) Percent change in Average Monthly Bill (to .1%)	25.23%	Total Proposed Avg Bill , Line 1, Col. (m)
C) Average January Residential Bill Impact		
1) Average January Residential Use (forecasted weather-normalized)	121	D - Proposed Rate & Bill
2) Monthly Charge	\$6.81	D - Proposed Rate & Bill
3) Current Average January Bill	\$110.25	D - Proposed Rate & Bill
4) Proposed Average January Bill	\$139.70	D - Proposed Rate & Bill
5) Change in Average January Bill	\$29.45	Item 4 minus Item 3
6) Percent change in Average January Bill (to .1%)	26.71%	Item 5 divided by Item 3
<b>4) Breakdown of Costs</b>		
<b>A) Embedded in Rates</b>		
1) Total Commodity Cost	\$ 24,829,306	Total of items a through f listed below
a) Total Demand Cost (assoc. w/ supply)	\$ -	
b) Total Peaking Cost (assoc. w/ supply)	\$ -	
c) Total Reservation Cost (assoc. w/ supply)	\$ 87,774	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
d) Total Volumetric Cost (assoc. w/ supply)	\$ 23,752,598	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
e) Total Storage Cost (assoc. w/ supply)	\$ 988,934	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
f) Other (A&G Benchmark Savings)	\$ -	
2) Total Transportation Cost (Pipeline related)	\$ 10,713,007	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,609,418	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,609,418	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 7,103,589	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 6,899,419	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
ii. Total Volumetric Cost	\$ 204,170	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
3) Total Storage Costs	\$ 1,421,652	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
4) Capacity Release Credits	\$ (1,155,553)	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
5) Total Gas Costs	\$ 35,808,412	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
<b>B) Projected For New Rates</b>		
1) Total Commodity Cost	\$ 39,498,244	Totals of items a through g listed below
a) Total Demand Cost (assoc. w/ supply)	\$ -	
b) Total Peaking Cost (assoc. w/ supply)	\$ -	
c) Total Reservation Cost (assoc. w/ supply)	\$ -	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
d) Total Vaporization Cost (assoc. w/ supply)	\$ -	
e) Total Volumetric Cost (assoc. w/ supply)	\$ 37,717,938	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
f) Total Storage Cost (assoc. w/ supply)	\$ 1,780,306	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
g) Other (A&G Benchmark Savings)	\$ -	
2) Total Transportation Cost (Pipeline related)	\$ 12,222,974	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,827,856	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,827,856	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 8,395,118	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 8,395,118	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
ii. Total Volumetric Cost	\$ -	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
3) Total Storage Costs	\$ 1,014,193	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
4) Capacity Release Credits	\$ (1,054,905)	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track
5) Total Gas Costs	\$ 51,680,506	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Summary-OR Gas Cost Track

Cascade Natural Gas Corporation  
2022 PGA  
PGA Summary Sheet  
Attachment E

		Location in Company Filing (cite)
<b>5) WACOG (Weighted Average Cost of Gas)</b>		
<b>A) Embedded in Rates</b>		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.28120	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.27260	Current rate on Tariff Sheet No. 177.2
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.15009	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.14550	Current rate on Tariff Sheet No. 177.2
<b>B) Proposed for New Rates</b>		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.44324	Summary Rate-Rev Impact, line 1, col (d)
b. Without revenue sensitive	\$ 0.42985	Summary Rate-Rev Impact, line 1, col (c)
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.13671	Summary Rate-Rev Impact, line 5, col (d)
b. Without revenue sensitive	\$ 0.13258	Summary Rate-Rev Impact, line 5, col (c)
<b>6) Therms Sold</b>	91,887,864	Summary Rate-Rev Impact, line 13

<b>7) Purchasing/ Hedging Strategies</b> Prepare 1-2 page summary of gas cost situation to include resources, purchasing strategy, hedging, and pipeline issues. Within the summary include:		
<b>A) Resources embedded in current rates and an explanation of proposed resources.</b>		
1) Firm Pipeline Capacity		
a) Year-round supply contracts	65,700,000	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Supply Summary-Price and Types tab
b) Winter-only contracts	141,854,309	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Supply Summary-Price and Types tab
c) Reliance on Spot Gas/Other Short Term Contracts	103,426,677	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Supply Summary-Price and Types tab
d) Other - e.g. Supply area storage		
2) Market Area Storage		
a) Underground-owned		
b) Underground- contracted	28,755,930	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Supply Summary-Price and Types tab
c) LNG-owned	-	
d) LNG-contracted	6,622,000	UG 442 Confidential Supplemental CNGC Gas Cost WP 9.15.22, Supply Summary-Price and Types tab
3) Other Resources		
a) Recalable Supply		
b) City gate Deliveries		
c) Owned-Production		
d) Propane/Air	-	