

e-FILING REPORT COVER SHEET

COMPANY NAME:

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
RO (Other, for example, industry safety information)
Did you previously file a similar report? No Yes, report docket number:
Report is required by: OAR
Statute
Order Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)
Other (For example, federal regulations, or requested by Staff)
Is this report associated with a specific docket/case? No Yes, docket number:

List Key Words for this report. We use these to improve search results.

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.

Energy Efficiency Avoided Cost Submission Template - Natura

Utility Name: CNG

Submission Date: 10/15/2020

Instructions and Definitions

<> Please fill out this workbook as completely as possible and per the instructions.

<> Inputs will be reviewed and approved by the OPUC before being sent to the Energy Trust of Oregon for use in Avoided Cost development.

<> Provide as much detail as possible when sourcing data inputs, including the link to the source (if available), page number and table or graph number. This will increase the efficiency of this process and require less iteration during the OPUC review period.

For worksheets 1,2,3,4,5,6 refer to data presented in the most recently acknowledged IRP, IRP Update, or General Rate Case unless otherwise noted.

1) Global Inputs - IRP

<> If supply or distribution capacity values were proportioned using a system peak coincident factor, please provide the system peak definition of the u and the peak-day/annual load and peak-hour/Annual Load Ratios for the utility system.

<> Note that in tabs 2-6, calendar start year and input table titles are calculated fields that pull from the global input tab, so these must be populated. **<> Ensure that the dollar years of the data inputs match the source** - Energy Trust will inflate to the proper year.

2) Commodity and Transport - IRP

<> Provide Commidity and Transport price forecast by month.

<> Indicate if the forecast is in nominal or real dollars (if real, dollar value will populate headers from Global Inputs tab).

3) Environmental Compliance - IRP

<> Provide the \$/Metric Ton of CO2 assumed for each year of the forecast.

<> Provide the metric ton of CO2/dekatherm assumed for each year of the forecast.

<> Column 'F' is a calculated field, which multiplies the \$/metric ton of CO2 by the CO2/dekatherm.

4) Infrastructure Capacity - IRP

<> Provide the Supply Infrastructure Capacity Cost in a \$/Dth/Day format for each year available of the forecast period.

<> Provide the Distribution Infrastructure Capacity Cost in a \$/Dth/Day and \$/Dth/Hour format for each year available of the forecast period.

<> If supply or distribution capacity values were proportioned using a system peak coincident factor, please provide the corresponding system peak coir

IRP" tab on rows 17 and 19.

5) Risk Reduction - IRP

<> Provide the Risk Reduction value in a \$/Dth format if available for each year available of the forecast period.

<> The box in cell C7 calculates the levelized net present value of all years of the forecast period. This is used when negative values occur in any year of t risk reduction value is negative, zero will be assigned as the final value. This is due to the premise that the risk reduction value is meant to be a benefit.

6) End Use Profiles - IRP

<> Provide the Monthly share of annual load for the utility's system by end use, if available.

<> Provide the peak day/annual load and peak hour/annual load ratios by end use, if available.

<> End-use profiles are meant to represent the timing of savings, these can be derived from either savings profiles or load profiles.

1a, 2a, 3a, 4a, 5a, 6a) Alternative Submissions

<> These worksheets provide a location for the utility to present alternative values to those found in the most recently acknowledged IRP, IRP Update, or <> Submissions in these tabs are not required.

<> Provide a rationale for submitting the alternative values in the box provided at the top of each alternative worksheet.

<> If a second set of alternative values is submitted, simply copy the alt tabs necessary and rename to 1b, alt 2 in the tab name. However, note that in tabs 2-6, calendar start year and input table titles are calculated fields that pull from the global input tab. Either update these formulas or override them.

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r.
cast start year.
tility (calendar Month/Day/Hour)
ncident factor in "Global Inputs -
the forecast period. If the levelized
or General Rate Case.

Global Ass	umptions Inputs	SOURCING Provide as much detail as possible with sourcing including a link. Ensure that dollar					
Global Asso							
Avoided Cost Element	Units	Value	Source	Source Page #	Table # (if applicable)	Source Link or File I	
Discount Rate (Company's Real after-			2018 OR IRP,	Tab "System Wide"	N/A		
tax weighted average cost of capital	Percent		Appendix H	Cell E49			
(WACC)		6.35%				2018 OR IRP - Appendix	
				Tab "CPI"	N/A		
Inflation Rate	Percent	3.60%	2018 OR IRP, Appendix H		N/A	2018 OR IRP - Appendix	
					-	-	
Regional Act Credit	Percent	10.00%	N/A				
Forecast Period Calendar Start Year	Year	2020	N/A				
		2017	2018 OR IRP,	Tab "System Wide"			
Real Dollar Base Year	Year	2017	Appendix H			2018 OR IRP - Appendix	
		T			-		
			2018 OR IRP,			https://www.cngc.com	
		Day	Section 3			services/rates-tariffs/or	
						integrated-resource-pla	
System Peak Definition	Calendar Month/Day/Hour			3-10	N/A		
			T				
			2018 OR IRP,			https://www.cngc.com	
Sustan Dack Caincident Day Faster (if		Peak Day	Section 3			services/rates-tariffs/or	
System Peak Coincident Day Factor (if		- ,		2.40		integrated-resource-pla	
needed)	Peak Day/Annual Load Ratio			3-10	N/A		
System Dook Coincident Hour Faster /if		1					
System Peak Coincident Hour Factor (if needed)	Peak Hour/Annual Load Ratio	N/A					

ar years listed here are the same as the source.				
e Name	Source Notes			
lix H.xlsx				
lix H.xlsx	Simple average of all inflation values			
	Real values are converted to 2017\$			
lix H.xlsx				
lix H.xlsx				
lix H.xlsx m/rates- oregon- blan/				
m/rates- oregon-				
m/rates- oregon-				
m/rates- oregon- olan/ m/rates- oregon-				

Commodity Price Inputs

Real or Nominal?	Real	
Source and Pg #:	IRP LT Price Fore	cast 2017-08-04 Used In 2018 OR IRP CONFIDENTIAL - Forecast for Conservation Tab
Source Link or File Name:	IRP LT Price Fore	cast 2017-08-04 Used In 2018 OR IRP CONFIDENTIAL
Source Notes:		

Gas Commodity and Transportation/Storage Costs (Real 2017\$/Dth)

Year #	Calendar Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
1	2020	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79	\$2.79
2	2021	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80
3	2022	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76
4	2023	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78
5	2024	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83
6	2025	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82
7	2026	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83	\$2.83
8	2027	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84
9	2028	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82	\$2.82
10	2029	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84
11	2030	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88
12	2031	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88
13	2032	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86
14	2033	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84
15	2034	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81	\$2.81
16	2035	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80	\$2.80
17	2036	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78	\$2.78
18	2037	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77	\$2.77
19	2038												
20	2039												
21	2040												
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40	2059												
41	2060												
42	2061												
43	2062												
44	2063												
45	2064												

Environmental Compliance Cost Inputs

Real or Nominal?	Real
Source and Pg #:	2018 OR IRP Appendix H
Source Link or File Name:	2018 OR IRP - Appendix H.xls
Source Notes:	

Environmental Compliance Cost

Year #	Calendar Year	Environmental Compliance Cost (Real 2017\$/MTCO2e)	Carbon Intesity (MTCO2e/Dth)	Environ Compliar (Real 201
1	2020	\$0.00	0.0583	(Real 201 \$0.0
2	2020	\$19.23	0.0583	\$0.0
3	2021	\$21.54	0.0583	\$1.2
4	2022	\$24.12	0.0583	\$1.4
5	2023	\$27.00	0.0583	\$1.5
6	2025	\$30.23	0.0583	\$1.7
7	2026	\$33.85	0.0583	\$1.9
8	2027	\$37.89	0.0583	\$2.2
9	2028	\$42.41	0.0583	\$2.4
10	2029	\$47.47	0.0583	\$2.7
11	2030	\$53.16	0.0583	\$3.1
12	2031	\$55.13	0.0583	\$3.2
13	2032	\$57.20	0.0583	\$3.3
14	2033	\$59.37	0.0583	\$3.4
15	2034	\$61.63	0.0583	\$3.5
16	2035	\$63.98	0.0583	\$3.7
17	2036	\$66.43	0.0583	\$3.8
18	2037	\$68.98	0.0583	\$4.0
19	2038	\$71.63	0.0583	\$4.1
20	2039	\$74.38	0.0583	\$4.3
21	2040	\$77.23	0.0583	\$4.5
22	2041	\$80.20	0.0583	\$4.6
23	2042	\$83.28	0.0583	\$4.8
24	2043	\$86.47	0.0583	\$5.0
25	2044	\$89.79	0.0583	\$5.2
26	2045	\$93.24	0.0583	\$5.4
27	2046	\$96.82	0.0583	\$5.6
28	2047	\$100.53	0.0583	\$5.8
29	2048	\$104.39	0.0583	\$6.0
30	2049	\$108.40	0.0583	\$6.3
31	2050	\$112.56	0.0583	\$6.5
32	2051	\$116.88	0.0583	\$6.8
33	2052	\$121.37	0.0583	\$7.0
34	2053	\$126.02	0.0583	\$7.3
35	2054	\$130.86	0.0583	\$7.6
36	2055	\$135.88	0.0583	\$7.9
37	2056	\$141.10	0.0583	\$8.2
38	2057	\$146.52	0.0583	\$8.5
39	2058	\$152.14	0.0583	\$8.8
40	2059	\$157.98	0.0583	\$9.2
41	2060	\$164.04	0.0583	\$9.5
42	2061	\$170.34	0.0583	\$9.9
43	2062	\$176.88	0.0583	\$10.3
44	2063	\$183.67	0.0583	\$10.7
45	2064	\$190.71	0.0583	\$11.:

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L.407
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7.632 7.925
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3.545
3.873
9.214
9.567
9.935
0.316
0.712
1.123

Infrastructure Capacity Cost Inputs

Real or Nominal?	Real	
	2018 OR IRP,	
	Appendix H,	
	"System Wide"	
Source and Pg #:	Tab	
Source Link or File Name:	2018 OR IRP - Ap	opendix H.xlsx
Source Notes:		supply is defined as the incrementa upstream capacity, which is B3-B2 + costs in its 2018 IRP. Alternative va

Infrastructure Capacity Costs

		Infrastructure Capacity Costs					
Year #	Calendar Year	Supply	Distribution Peak DAY	Distribution Peak HOUR			
fear #	Calendar fear	(Real 2017\$/Dth/Day)	(Real 2017\$/Dth/Day)	(Real 2017\$/Dth/Hour)			
1	2020	\$1.072	\$0.000	\$0.000			
2	2021	\$1.072	\$0.000	\$0.000			
3	2022	\$1.072	\$0.000	\$0.000			
4	2023	\$1.072	\$0.000	\$0.000			
5	2024	\$1.072	\$0.000	\$0.000			
6	2025	\$1.072	\$0.000	\$0.000			
7	2026	\$1.072	\$0.000	\$0.000			
8	2027	\$1.072	\$0.000	\$0.000			
9	2028	\$1.072	\$0.000	\$0.000			
10	2029	\$1.072	\$0.000	\$0.000			
11	2030	\$1.072	\$0.000	\$0.000			
12	2031	\$1.072	\$0.000	\$0.000			
13	2032	\$1.072	\$0.000	\$0.000			
14	2033	\$1.072	\$0.000	\$0.000			
15	2034	\$1.072	\$0.000	\$0.000			
16	2035	\$1.072	\$0.000	\$0.000			
17	2036	\$1.072	\$0.000	\$0.000			
18	2037	\$1.072	\$0.000	\$0.000			
19	2038	\$1.072	\$0.000	\$0.000			
20	2039	\$1.072	\$0.000	\$0.000			
21	2040	\$1.072	\$0.000	\$0.000			
22	2041	\$1.072	\$0.000	\$0.000			
23	2042	\$1.072	\$0.000	\$0.000			
24	2043	\$1.072	\$0.000	\$0.000			
25	2044	\$1.072	\$0.000	\$0.000			
26	2045	\$1.072	\$0.000	\$0.000			
27	2046	\$1.072	\$0.000	\$0.000			
28	2047	\$1.072	\$0.000	\$0.000			
29	2048	\$1.072	\$0.000	\$0.000			
30	2049	\$1.072	\$0.000	\$0.000			
31	2050	\$1.072	\$0.000	\$0.000			
32	2051	\$1.072	\$0.000	\$0.000			
33	2052	\$1.072	\$0.000	\$0.000			
34	2053	\$1.072	\$0.000	\$0.000			
35	2054	\$1.072	\$0.000	\$0.000			
36	2055	\$1.072	\$0.000	\$0.000			
37	2056	\$1.072	\$0.000	\$0.000			
38	2057	\$1.072	\$0.000	\$0.000			
39	2058	\$1.072	\$0.000	\$0.000			
40	2059	\$1.072	\$0.000	\$0.000			
41	2060	\$1.072	\$0.000	\$0.000			
42	2061	\$1.072	\$0.000	\$0.000			
43	2062	\$1.072	\$0.000	\$0.000			
44	2063	\$1.072	\$0.000	\$0.000			
45	2064	\$1.072	\$0.000	\$0.000			

tal fixed and variable transportation costs 2 + C3-C2. CNGC did not include distribution values are provided in 4a)

Risk Reduction Value Inputs

Real or Nominal?		
Source and Pg #:	N/A	
Source Link or File Name:		
Source Notes:	CNGC did not inclue	de risk reduction costs in its 2018 IRP. Alternative values are provided in 5a)

\$0.00

= Levelized Risk Reduction Value (for use when negative values occur in any years of the forecast period). If this value is negative, then zero will be assigned as the final value.

Risk Reduction Value

Risk Reduction Value Year # Calendar Year (\$/Dth) 2020 \$0.000 1 \$0.000 2 2021 3 2022 \$0.000 \$0.000 4 2023 \$0.000 5 2024 \$0.000 6 2025 7 2026 \$0.000 2027 \$0.000 8 2028 \$0.000 9 10 2029 \$0.000 11 2030 \$0.000 12 2031 \$0.000 \$0.000 13 2032 2033 \$0.000 14 15 2034 \$0.000 2035 \$0.000 16 2036 \$0.000 17 18 2037 \$0.000 19 2038 \$0.000 20 2039 \$0.000

End Use Profiles & Peak Day/Hour Ratios

Source and Pg # and/or Table #:	Load Shape Support Document, "Load Shape" Tag
Source Link or File Name:	Load Shape Support Document
Source Notes:	Cascade did not calculate Peak Hour in its 2018 IRP.

End Use Profiles		Monthly Share of Normal Weather Annual Load						Peak to Annual Usage	Normal Weathe Ratios					
End Use	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Peak Day	Peak Hour
All	0.154178	0.126423	0.107155	0.072351	0.04992	0.035601	0.030266	0.031202	0.041425	0.070827	0.119081	0.16157	0.0097	N/A

Notes:

Trust will work with Utility and OPUC Staff to determine the most appropriate load or savings profiles and peak factors to use, whether that is utility specific values or Northwest Power and Conservation Council proxies. In order for utility-specific values to be used, utility staff must review the methodology they used to develop the values with OPUC Staff.

Energy

	Rationale for alternative submission:
Alternative Submissions	Provide an overall rationale for providing alternative values - use the 'Source Notes/Rationale' colun
	detailed rational for individual inputs

Alternativ	sions		Rationale for alter Provide an overall detailed rational fo	rationale for providing alteri	native values - use the 'Source No	tes/Rationale' column to provide more	
						SOURCING	
Global Assumption	ns Inputs		Provide as	s much detail as pos	sible with sourcing including		sted here are the same as the source.
Avoided Cost Element	Units	Value	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes
Discount Rate (Company's Real after- cax weighted average cost of capital (WACC)	Percent	7.33%	CNGC Spring Earnings Review	13	Interest Coordination Adjustment	WACC Support Document.pdf	Used in 2020 OR IRP
				26			
nflation Rate - 2020	Percent		2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2021		2.66%	-				
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2022		2.86%		36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2023	Percent		2019 Projections	50	4	Raw Innation Data.xisx	USED III 2020 OK IKP
	Percent			36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2024		3.18%					
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2025			Woods & Poole	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2026	Percent	3.45%	2019 Projections				
nflation Rate - 2027	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nilation Rate - 2027	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
Inflation Rate - 2028		3.65%	-				
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2029			Woods & Poole	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2030	Percent	3.79%	2019 Projections				
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2031		3.83%	Woods & Poole	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2032	Percent	3.85%	2019 Projections				
	Percent		Woods & Poole 2019 Projections	36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
nflation Rate - 2033		3.86%	-				

Percent Woods & Porte 5 4 Percent Used in 2020 OR IRP Infactor Rate - 2034 Percent Noods & Porte 5 4 Percent Noods & Porte Infactor Rate - 2035 Percent Noods & Porte 5 4 Percent Noods & Porte Infactor Rate - 2036 Percent Noods & Porte 5 4 Percent Noods & Porte Infactor Rate - 2037 Percent Noods & Porte 5 4 Percent Noods & Porte Infactor Rate - 2037 Percent Noods & Porte 5 4 Percent Noods & Porte 4 Infactor Rate - 2037 Percent Noods & Porte 5 4 Percent Noods & Porte 4 Infactor Rate - 2037 Percent 3.333 Noods & Porte 4 Percent Noods & Porte 4 Percent Noods & Porte 4 Percent Noods & Porte 3 Percent 3.337 Noods & Porte 4 Percent Noods & Porte 3 4 Percent			1					
Induito Rate - 2034 Percet 3.88% Image Percet Seconds Prode Sup Projections Percet Second Prode Sup Projections Percet					36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
Percent Woods & Proteins 36 4 Rev Inflation Data Altx Used in 2020 OR IRP Inflation Rate - 2035 Percent 3.097 Woods & Proteins 3 4 Rev Inflation Data Altx Used in 2020 OR IRP Inflation Rate - 2036 Percent 3.097 Woods & Proteins 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2037 Percent 3.097 Woods & Proteins 6 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2038 Percent 3.097 Woods & Proteins 6 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2038 Percent 3.097 Woods & Proteins 6 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2030 Percent 3.097 Woods & Proteins 6 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2040 Percent 3.097 Woods & Proteins 6 4 Rev Inflation Data.xitx Used in 2020 OR IRP Inflation Rate - 2041 Percent		Percent		-				
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Initial Rate - 2035 Image: Percent of the state of th					36	4	Raw Inflation Data.xlsx	Used in 2020 OR IRP
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	Rationale for alternative submission:
Alternative Submissions	Provide an overall rationale for providing alternative values using this box

Commodity Price Inputs

Real or Nominal?	Real	
Source and Pg #:	2020 OR IRP - Ap	opendix H
Source Link or File Name:	https://www.cn	gc.com/rates-services/rates-tariffs/oregon-integrated-resource-plan/
Source Notes:	Tab "2) Commo	dity & Transport - IRP" from the 2020 IRP currently being reviewed by OPUC

Gas Commodity and Transportation/Storage Costs (Real 2019\$/Dth)

1 2 3 4 5 6 7 8 9 10 11 12 13	lendar Year 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030	JAN \$2.99 \$2.66 \$2.53 \$2.54 \$2.57 \$2.76 \$2.92 \$3.00 \$3.01 \$2.07	FEB \$2.65 \$2.47 \$2.44 \$2.48 \$2.48 \$2.68 \$2.85 \$2.92	MAR \$2.09 \$2.05 \$2.05 \$2.11 \$2.17 \$2.37 \$2.51 \$2.51	APR \$1.86 \$1.71 \$1.77 \$1.86 \$1.93 \$2.17	MAY \$1.46 \$1.57 \$1.66 \$1.74 \$1.79	JUN \$1.48 \$1.57 \$1.68 \$1.71	JUL \$2.05 \$1.86 \$1.93 \$2.02	AUG \$2.35 \$1.90 \$1.96	SEP \$2.56 \$1.92 \$1.97	OCT \$2.16 \$1.91 \$2.02	NOV \$2.18 \$2.12 \$2.21	DEC \$2.51 \$2.41
3 4 5 6 7 8 9 10 11 12 13	2021 2022 2023 2024 2025 2026 2027 2028 2028 2029	\$2.66 \$2.53 \$2.54 \$2.57 \$2.76 \$2.92 \$3.00 \$3.01	\$2.47 \$2.44 \$2.48 \$2.48 \$2.68 \$2.68 \$2.85	\$2.05 \$2.05 \$2.11 \$2.17 \$2.37 \$2.51	\$1.71 \$1.77 \$1.86 \$1.93 \$2.17	\$1.57 \$1.66 \$1.74 \$1.79	\$1.57 \$1.68 \$1.71	\$1.86 \$1.93	\$1.90 \$1.96	\$1.92	\$1.91	\$2.12	\$2.41
3 4 5 6 7 8 9 10 11 12 13	2023 2024 2025 2026 2027 2028 2029	\$2.53 \$2.54 \$2.57 \$2.76 \$2.92 \$3.00 \$3.01	\$2.44 \$2.48 \$2.48 \$2.68 \$2.85	\$2.05 \$2.11 \$2.17 \$2.37 \$2.51	\$1.77 \$1.86 \$1.93 \$2.17	\$1.66 \$1.74 \$1.79	\$1.68 \$1.71	\$1.93	\$1.96				-
5 6 7 8 9 10 11 12 13	2024 2025 2026 2027 2028 2029	\$2.57 \$2.76 \$2.92 \$3.00 \$3.01	\$2.48 \$2.68 \$2.85	\$2.17 \$2.37 \$2.51	\$1.93 \$2.17	\$1.79	\$1.71	\$2.02				72.21	\$2.47
6 7 8 9 10 11 12 13	2025 2026 2027 2028 2029	\$2.76 \$2.92 \$3.00 \$3.01	\$2.68 \$2.85	\$2.37 \$2.51	\$2.17				\$2.06	\$2.08	\$2.13	\$2.28	\$2.50
7 8 9 10 11 12 13	2026 2027 2028 2029	\$2.92 \$3.00 \$3.01	\$2.85	\$2.51	-		\$1.89	\$2.10	\$2.14	\$2.13	\$2.27	\$2.43	\$2.76
8 9 10 11 12 13	2027 2028 2029	\$3.00 \$3.01		-		\$2.08	\$2.12	\$2.41	\$2.49	\$2.45	\$2.41	\$2.59	\$2.95
9 10 11 12 13	2028 2029	\$3.01	\$2.92	60	\$2.30	\$2.19	\$2.22	\$2.52	\$2.60	\$2.58	\$2.53	\$2.69	\$3.07
10 11 12 13	2029	-		\$2.57	\$2.36	\$2.26	\$2.28	\$2.58	\$2.67	\$2.65	\$2.58	\$2.73	\$3.09
11 12 13		62.07	\$2.92	\$2.62	\$2.40	\$2.29	\$2.31	\$2.61	\$2.73	\$2.69	\$2.60	\$2.77	\$3.13
12 13	2030	\$3.07	\$3.00	\$2.71	\$2.46	\$2.37	\$2.41	\$2.76	\$2.88	\$2.82	\$2.75	\$2.95	\$3.28
13		\$3.28	\$3.19	\$2.89	\$2.60	\$2.50	\$2.60	\$2.90	\$3.02	\$2.96	\$2.89	\$3.13	\$3.39
	2031	\$3.47	\$3.31	\$2.98	\$2.70	\$2.61	\$2.68	\$2.97	\$3.08	\$3.03	\$2.95	\$3.17	\$3.42
	2032	\$3.50	\$3.31	\$2.99	\$2.71	\$2.62	\$2.70	\$3.00	\$3.10	\$3.05	\$2.97	\$3.21	\$3.46
14	2033	\$3.54	\$3.38	\$3.05	\$2.75	\$2.67	\$2.76	\$3.06	\$3.16	\$3.10	\$3.03	\$3.28	\$3.55
15	2034	\$3.61	\$3.44	\$3.09	\$2.80	\$2.71	\$2.79	\$3.11	\$3.21	\$3.15	\$3.07	\$3.34	\$3.62
16	2035	\$3.65	\$3.48	\$3.13	\$2.84	\$2.75	\$2.84	\$3.14	\$3.25	\$3.19	\$3.11	\$3.38	\$3.65
17	2036	\$3.70	\$3.52	\$3.15	\$2.87	\$2.78	\$2.87	\$3.18	\$3.28	\$3.23	\$3.14	\$3.43	\$3.70
18	2037	\$3.77	\$3.59	\$3.23	\$2.95	\$2.83	\$2.91	\$3.27	\$3.36	\$3.30	\$3.26	\$3.55	\$3.84
19	2038	\$4.18	\$3.88	\$3.44	\$3.03	\$3.03	\$3.14	\$3.68	\$3.80	\$3.70	\$3.50	\$3.87	\$4.31
20	2039	\$4.27	\$3.96	\$3.50	\$3.15	\$3.18	\$3.24	\$3.75	\$3.86	\$3.80	\$3.59	\$3.96	\$4.35
21	2040	\$4.34	\$4.01	\$3.55	\$3.50	\$3.26	\$3.27	\$3.95	\$4.21	\$4.44	\$3.92	\$3.89	\$4.26
22	2041	\$4.38	\$4.05	\$3.58	\$3.53	\$3.29	\$3.30	\$3.99	\$4.25	\$4.48	\$3.96	\$3.93	\$4.31
23	2042	\$4.42	\$4.09	\$3.62	\$3.57	\$3.33	\$3.33	\$4.03	\$4.29	\$4.53	\$4.00	\$3.97	\$4.35
24	2043	\$4.47	\$4.13	\$3.66	\$3.60	\$3.36	\$3.37	\$4.07	\$4.34	\$4.57	\$4.04	\$4.01	\$4.39
25	2044	\$4.51	\$4.18	\$3.69	\$3.64	\$3.39	\$3.40	\$4.11	\$4.38	\$4.62	\$4.08	\$4.05	\$4.44
26	2045	\$4.56	\$4.22	\$3.73	\$3.68	\$3.43	\$3.43	\$4.15	\$4.42	\$4.66	\$4.12	\$4.09	\$4.48
27	2046	\$4.60	\$4.26	\$3.77	\$3.71	\$3.46	\$3.47	\$4.19	\$4.47	\$4.71	\$4.16	\$4.13	\$4.53
28	2047	\$4.65	\$4.30	\$3.81	\$3.75	\$3.50	\$3.50	\$4.23	\$4.51	\$4.76	\$4.20	\$4.17	\$4.57
29	2048	\$4.70	\$4.35	\$3.84	\$3.79	\$3.53	\$3.54	\$4.27	\$4.56	\$4.80	\$4.24	\$4.21	\$4.62
30	2049	\$4.74	\$4.39	\$3.88	\$3.83	\$3.57	\$3.57	\$4.32	\$4.60	\$4.85	\$4.29	\$4.26	\$4.66
31	2050	\$4.79	\$4.43	\$3.92	\$3.86	\$3.60	\$3.61	\$4.36	\$4.65	\$4.90	\$4.33	\$4.30	\$4.71
32	2051	\$4.84	\$4.48	\$3.96	\$3.90	\$3.64	\$3.64	\$4.40	\$4.69	\$4.95	\$4.37	\$4.34	\$4.76
33	2052	\$4.89	\$4.52	\$4.00	\$3.94	\$3.68	\$3.68	\$4.45	\$4.74	\$5.00	\$4.42	\$4.38	\$4.81
34	2053	\$4.94	\$4.57	\$4.04	\$3.98	\$3.71	\$3.72	\$4.49	\$4.79	\$5.05	\$4.46	\$4.43	\$4.85
35 36	2054	\$4.98 \$5.02	\$4.61 \$4.66	\$4.08 \$4.12	\$4.02	\$3.75 \$3.79	\$3.75 \$2.70	\$4.54	\$4.84	\$5.10 \$5.15	\$4.50 \$4.55	\$4.47 \$4.52	\$4.90
30	2055 2056	\$5.03 \$5.08	\$4.66 \$4.71	\$4.12 \$4.16	\$4.06 \$4.10	\$3.79	\$3.79 \$3.83	\$4.58 \$4.63	\$4.89 \$4.93	\$5.15 \$5.20	\$4.55 \$4.59	\$4.52 \$4.56	\$4.95 \$5.00
37	2056	\$5.08 \$5.14	\$4.71 \$4.75	\$4.16 \$4.20	\$4.10 \$4.14	\$3.82 \$3.86	\$3.83 \$3.87	\$4.63 \$4.68	\$4.93 \$4.98	\$5.20 \$5.25	\$4.59 \$4.64	\$4.56 \$4.61	\$5.00 \$5.05
38 39	2057	\$5.14 \$5.19	\$4.75 \$4.80	\$4.20 \$4.25	\$4.14 \$4.18	\$3.86	\$3.87 \$3.91	\$4.68 \$4.72	\$4.98 \$5.03	\$5.25 \$5.31	\$4.64 \$4.69	\$4.61 \$4.65	\$5.05
40	2058	\$5.19 \$5.24	\$4.80 \$4.85	\$4.25 \$4.29	\$4.18 \$4.23	\$3.90	\$3.91	\$4.72 \$4.77	\$5.03 \$5.08	\$5.36	\$4.69 \$4.73	\$4.85 \$4.70	\$5.10
40	2059	\$5.24 \$5.29	\$4.85 \$4.90	\$4.23	\$4.23 \$4.27	\$3.94	\$3.95	\$4.77 \$4.82	\$5.13	\$5.41	\$4.73 \$4.78	\$4.70 \$4.75	\$5.20
41 42	2060	\$5.29 \$5.34	\$4.90 \$4.95	\$4.35 \$4.37	\$4.27 \$4.31	\$4.02	\$3.99 \$4.03	\$4.82 \$4.87	\$5.15 \$5.19	\$5.41	\$4.78 \$4.83	\$4.75 \$4.80	\$5.20
42 43	2061	\$5.40	\$4.95 \$5.00	\$4.37 \$4.42	\$4.31 \$4.35	\$4.02 \$4.06	\$4.03 \$4.07	\$4.87 \$4.91	\$5.24	\$5.52	\$4.85 \$4.88	\$4.80 \$4.84	\$5.20
43	2062	\$5.45	\$5.05	\$4.42 \$4.46	\$4.33	\$4.00 \$4.10	\$4.07	\$4.91	\$5.24	\$5.58	\$4.88 \$4.93	\$4.84 \$4.89	\$5.36
44	2003	\$5.51	\$5.10 \$5.10	\$4.40 \$4.51	\$4.40	\$4.10 \$4.14	\$4.11 \$4.15	\$4.90 \$5.01	\$5.34	\$5.63	\$4.93 \$4.98	\$4.89 \$4.94	\$5.41



Alternative Submissions

Rationale for alternative submission:

Provide an overall rationale for providing alternative values using this box

Environmental Compliance Cost Inputs

Real or Nominal?	Real	
Source and Pg #:	2019 CEC Carbon Pricing - (Carbon Price Mid Price
Source Link or File Name:		
Source Notes:		

Environmental Compliance Cost

Year #	Calendar Year	Environmental Compliance Cost (Real 2019\$/MTCO2e)	Carbon Intesity (MTCO2e/Dth)	Environmental Compliance Cost (Real 2019\$/Dth)
1	2020	\$0.00	0.0583	\$0.000
2	2021	\$21.13	0.0583	\$1.233
3	2022	\$26.16	0.0583	\$1.526
4	2023	\$26.77	0.0583	\$1.562
5	2024	\$30.14	0.0583	\$1.758
6	2025	\$33.95	0.0583	\$1.980
7	2026	\$38.24	0.0583	\$2.230
8	2027	\$43.06	0.0583	\$2.512
9	2028	\$48.50	0.0583	\$2.829
10	2029	\$54.61	0.0583	\$3.185
11	2030	\$61.50	0.0583	\$3.587
12	2031	\$61.50	0.0583	\$3.587
13	2032	\$61.50	0.0583	\$3.587
14	2033	\$61.50	0.0583	\$3.587
15	2034	\$61.50	0.0583	\$3.587
16	2035	\$61.50	0.0583	\$3.587
17	2036	\$61.50	0.0583	\$3.587
18	2037	\$61.50	0.0583	\$3.587
19	2038	\$61.50	0.0583	\$3.587
20	2039	\$61.50	0.0583	\$3.587
21	2040	\$61.50	0.0583	\$3.587
22	2041	\$61.50	0.0583	\$3.587
23	2042	\$61.50	0.0583	\$3.587
24	2043	\$61.50	0.0583	\$3.587
25	2044	\$61.50	0.0583	\$3.587
26	2045	\$61.50	0.0583	\$3.587
27	2046	\$61.50	0.0583	\$3.587
28	2047	\$61.50	0.0583	\$3.587
29	2048	\$61.50	0.0583	\$3.587
30	2049	\$61.50	0.0583	\$3.587
31	2050	\$61.50	0.0583	\$3.587
32	2051	\$61.50	0.0583	\$3.587
33	2052	\$61.50	0.0583	\$3.587
34	2053	\$61.50	0.0583	\$3.587
35	2054	\$61.50	0.0583	\$3.587
36	2055	\$61.50	0.0583	\$3.587
37	2056	\$61.50	0.0583	\$3.587
38	2057	\$61.50	0.0583	\$3.587
39	2058	\$61.50	0.0583	\$3.587
40	2059	\$61.50	0.0583	\$3.587
41	2060	\$61.50	0.0583	\$3.587
42	2061	\$61.50	0.0583	\$3.587
43	2062	\$61.50	0.0583	\$3.587
44	2063	\$61.50	0.0583	\$3.587
45	2064	\$61.50	0.0583	\$3.587

	Rationale for alternative sub
Alternative Submissions	Provide an overall rationale for providing altern

Infrastructure Capacity Cost Inputs

Real or Nominal?	Real	
Source and Pg #:	2020 OR IRP - App	pendix H
Source Link or File Name:	https://www.cng	c.com/rates-services/rates-tariffs/oregon-integrated-reso
Source Notes:		

Infrastructure Capacity Costs

			Infrastructure Capacity Costs						
Year #	Calendar Year	Supply (Real 2019\$/Dth/Day)	Distribution Peak DAY (Real 2019\$/Dth/Day)						
1	2020	\$0.000	\$0.119	\$0.006					
2	2021	\$0.000	\$0.127	\$0.007					
3	2022	\$0.000	\$0.130	\$0.007					
4	2023	\$0.000	\$0.121	\$0.006					
5	2024	\$0.000	\$0.141	\$0.007					
6	2025	\$0.000	\$0.126	\$0.006					
7	2026	\$0.000	\$0.126	\$0.006					
8	2027	\$0.000	\$0.128	\$0.007					
9	2028	\$0.000	\$0.128	\$0.007					
10	2029	\$0.000	\$0.129	\$0.007					
11	2030	\$0.000	\$0.129	\$0.007					
12	2031	\$0.000	\$0.128	\$0.007					
13	2032	\$0.226	\$0.128	\$0.007					
14	2033	\$0.226	\$0.130	\$0.007					
15	2034	\$0.226	\$0.130	\$0.007					
16	2035	\$0.226	\$0.131	\$0.007					
17	2036	\$0.226	\$0.131	\$0.007					
18	2037	\$0.226	\$0.129	\$0.007					
19	2038	\$0.226	\$0.131	\$0.007					
20	2039	\$0.226	\$0.132	\$0.007					
20	2035	Ψ 0.220		Q0.007					
21	2040								
22	2041								
23	2042								
25	2044								
26	2045								
27	2046								
28	2047								
29	2048								
30	2049								
31	2050								
32	2051								
33	2052								
34	2053								
35	2054								
36	2055								
37	2056								
38	2057								
39	2058								
40	2059								
41	2060								
42	2061								
43	2062								
44	2063								
45	2064								

ubmission:

rnative values using this box

ource-plan/

Alternative Submissions

Rationale for alternative submission:

Provide an overall rationale for providing alternative values using this box

Risk Reduction Value Inputs

Real or Nominal?	
Source and Pg #:	
Source Link or File Name:	
Source Notes:	

= Levelized Risk Reduction Value (for use when negative values occur in any years of the forecast period). If this value is negative, then zero will be assigned as the final value.

No Data Entered

Risk Reduction Value

Year #	Calendar Year	Risk Reduction Value (\$/Dth)
1	2020	
2	2021	
3	2022	
4	2023	
5	2024	
6	2025	
7	2026	
8	2027	
9	2028	
10	2029	
11	2030	
12	2031	
13	2032	
14	2033	
15	2034	
16	2035	
17	2036	
18	2037	
19	2038	
20	2039	

Alternative Submissions

Rationale for alternative submission: Provide an overall rationale for providing alternative values using this box

End Use Profiles & Peak Day/Hour Ratios

Source and Pg # and/or Table #:	GC 2020 OR IRP - Appendi
Source Link or File Name:	services/rates-tariffs/oreg
Source Notes:	

End Use Profiles	Monthly Share of Normal Weather Annual Load											
End Use	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
All	0.154178	0.126423	0.107155	0.072351	0.04992	0.035601	0.030266	0.031202	0.041425	0.070827	0.119081	0.16157
											 	
											 	
											┟─────╊	

Notes:

Trust will work with Utility and OPUC Staff to determine the most appropriate load or savings profiles and peak factors to use, whether that is utility specific values or Northwest Power and Conservation Council proxies. In order for utility-specific values to be used, utility staff must review the methodology they used to develop the values with OPUC Staff.

Peak to Annual Normal Weather				
Usage Ratios				
Peak Day Peak Hour				

Energy