



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 - Natural Gas

Utility Name: **AVI**

Submission Date: **14-Oct-19**

Instructions and Definitions

<> Please fill out this workbook completely and per the instructions and submit via electronic filing to docket UM 1893. Submissions are due October 15 of each year.

<> 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

Required pages 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

<> Standard economic assumptions of the avoided costs are input into this tab, including inflation and discount rates, as well as real dollar year and forecast start year. <> In addition to the standard economic assumptions, please provide the system peak definition of the utility (calendar Month/Day/Hour) 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

<> Please provide the values in the most recently acknowledged IRP

2) Commodity and Transport - IRP

<> Provide Commodity 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)**

<> Please provide the values in the most recently acknowledged IRP

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

<> Please provide the values in the most recently acknowledged IRP

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

<> Please provide the values in the most recently acknowledged IRP

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 the forecast period. If the levelized 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.

<> Please provide the values in the most recently acknowledged IRP

6) End Use Load 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.

<> Please provide the values in the most recently acknowledged IRP

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

<> These worksheets provide a location for the utility to present alternative values to the most recently acknowledged IRP values for OPUC review.

<> **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.

Global Assumptions Inputs			SOURCING				
Provide as much detail as possible with sourcing including a link. Ensure that dollar years listed 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-tax weighted average cost of capital (WACC))	Percent	6.450%	Avista 2018 Natural Gas IRP	222		https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	System weighted
Inflation Rate	Percent	2.00%	Avista 2018 Natural Gas IRP	222		https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	GPD price deflator assumption
Regional Act Credit	Percent	10.00%	N/A				
Forecast Period Calendar Start Year	Year	2017	Avista 2018 Natural Gas IRP	4	figure 1	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	Data begins in November 2017
Real Dollar Base Year	Year	2016					provided all dollars in nominal amounts
System Peak Definition	Calendar Month/Day/Hour	February 15th & December 20th	Avista 2018 Natural Gas IRP	3		https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	(WA,ID,La Grande)-2/15 & (Klamath, Roseburg, Medford)-12/20
System Peak Coincident Day Factor	Peak Day/Annual Load Ratio	0.0104186	Avista 2018 Natural Gas IRP	112		https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	2019-2020 peak day and average load
System Peak Coincident Hour Factor	Peak Hour/Annual Load Ratio	0.0004623	Avista 2018 Natural Gas IRP	112		https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp-appendices.pdf?la=en	2019-2020 peak hour (peak day/24*1.065) and average load

Commodity Price Inputs

Real or Nominal?	Nominal
Source and Pg #:	2018 IRP
Source Link or File Name:	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2018-natural-gas-irp.p
Source Notes:	expected case

Gas Commodity and Transportation/Storage Costs (Real 2016\$/Dth)

Year #	Calendar Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2017	\$ (2.17)	\$ (2.41)	\$ (1.32)	\$ (1.42)	\$ (1.39)	\$ (1.39)	\$ (1.43)	\$ (1.43)	\$ (1.40)	\$ (1.53)	\$ (2.09)	\$ (2.38)
2	2018	\$ (2.17)	\$ (2.08)	\$ (1.86)	\$ (1.56)	\$ (1.55)	\$ (1.62)	\$ (1.69)	\$ (1.69)	\$ (1.62)	\$ (1.67)	\$ (1.87)	\$ (2.53)
3	2019	\$ (2.30)	\$ (2.21)	\$ (1.99)	\$ (1.75)	\$ (1.75)	\$ (1.76)	\$ (1.80)	\$ (1.83)	\$ (1.79)	\$ (1.88)	\$ (2.02)	\$ (2.69)
4	2020	\$ (3.32)	\$ (3.29)	\$ (3.16)	\$ (2.92)	\$ (2.91)	\$ (2.94)	\$ (3.01)	\$ (3.03)	\$ (2.96)	\$ (3.03)	\$ (2.08)	\$ (2.66)
5	2021	\$ (3.56)	\$ (3.59)	\$ (3.49)	\$ (3.22)	\$ (3.23)	\$ (3.22)	\$ (3.27)	\$ (3.29)	\$ (3.30)	\$ (3.35)	\$ (3.31)	\$ (3.81)
6	2022	\$ (3.78)	\$ (3.76)	\$ (3.68)	\$ (3.42)	\$ (3.47)	\$ (3.49)	\$ (3.50)	\$ (3.56)	\$ (3.55)	\$ (3.59)	\$ (3.53)	\$ (4.06)
7	2023	\$ (4.23)	\$ (4.23)	\$ (4.18)	\$ (4.00)	\$ (4.00)	\$ (3.97)	\$ (4.09)	\$ (4.18)	\$ (4.16)	\$ (4.24)	\$ (3.95)	\$ (4.54)
8	2024	\$ (4.57)	\$ (4.58)	\$ (4.44)	\$ (4.29)	\$ (4.31)	\$ (4.38)	\$ (4.44)	\$ (4.47)	\$ (4.42)	\$ (4.45)	\$ (4.40)	\$ (4.92)
9	2025	\$ (4.77)	\$ (4.75)	\$ (4.60)	\$ (4.47)	\$ (4.51)	\$ (4.59)	\$ (4.68)	\$ (4.70)	\$ (4.64)	\$ (4.69)	\$ (4.54)	\$ (5.09)
10	2026	\$ (5.06)	\$ (5.05)	\$ (4.96)	\$ (4.85)	\$ (4.83)	\$ (4.92)	\$ (5.02)	\$ (5.05)	\$ (4.99)	\$ (5.05)	\$ (4.79)	\$ (5.31)
11	2027	\$ (5.53)	\$ (5.44)	\$ (5.36)	\$ (5.28)	\$ (5.27)	\$ (5.39)	\$ (5.46)	\$ (5.51)	\$ (5.40)	\$ (5.43)	\$ (5.22)	\$ (5.75)
12	2028	\$ (5.96)	\$ (5.92)	\$ (5.79)	\$ (5.70)	\$ (5.71)	\$ (5.73)	\$ (5.83)	\$ (5.86)	\$ (5.79)	\$ (5.87)	\$ (5.64)	\$ (6.07)
13	2029	\$ (6.41)	\$ (6.35)	\$ (6.17)	\$ (6.08)	\$ (6.11)	\$ (6.15)	\$ (6.26)	\$ (6.30)	\$ (6.24)	\$ (6.30)	\$ (6.07)	\$ (6.55)
14	2030	\$ (6.73)	\$ (6.70)	\$ (6.54)	\$ (6.38)	\$ (6.43)	\$ (6.48)	\$ (6.63)	\$ (6.67)	\$ (6.60)	\$ (6.62)	\$ (6.41)	\$ (6.88)
15	2031	\$ (7.01)	\$ (6.94)	\$ (6.80)	\$ (6.65)	\$ (6.68)	\$ (6.73)	\$ (6.86)	\$ (6.92)	\$ (6.86)	\$ (6.94)	\$ (6.74)	\$ (7.17)
16	2032	\$ (7.40)	\$ (7.38)	\$ (7.22)	\$ (7.07)	\$ (7.08)	\$ (7.12)	\$ (7.31)	\$ (7.34)	\$ (7.26)	\$ (7.27)	\$ (7.06)	\$ (7.58)
17	2033	\$ (7.74)	\$ (7.75)	\$ (7.54)	\$ (7.39)	\$ (7.40)	\$ (7.47)	\$ (7.65)	\$ (7.67)	\$ (7.56)	\$ (7.63)	\$ (7.44)	\$ (7.94)
18	2034	\$ (8.15)	\$ (8.12)	\$ (7.95)	\$ (7.81)	\$ (7.76)	\$ (7.83)	\$ (7.99)	\$ (8.05)	\$ (7.94)	\$ (7.89)	\$ (7.80)	\$ (8.26)
19	2035	\$ (8.69)	\$ (8.46)	\$ (8.29)	\$ (8.12)	\$ (8.13)	\$ (8.26)	\$ (8.57)	\$ (8.68)	\$ (8.48)	\$ (8.49)	\$ (7.96)	\$ (8.59)
20	2036	\$ (9.36)	\$ (9.12)	\$ (8.82)	\$ (8.39)	\$ (8.40)	\$ (8.50)	\$ (8.79)	\$ (8.88)	\$ (8.61)	\$ (8.62)	\$ (8.68)	\$ (9.32)
21	2037												
22	2038												
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41	2057												
42	2058												
43	2059												
44	2060												
45	2061												

Environmental Compliance Cost Inputs

Real or Nominal?	Nominal
Source and Pg #:	EPA
Source Link or File Name:	https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references
Source Notes:	carbon intensity is 117 lbs.per Metric Ton 2204 lbs

Environmental Compliance Cost

Year #	Calendar Year	Environmental Compliance Cost (Real 2016\$/MTCO2e)	Carbon Intensity (MTCO2e/Dth)	Environmental Compliance Cost (Real 2016\$/Dth)
1	2017	\$14.53	0.053	\$0.771
2	2018	\$15.57	0.053	\$0.827
3	2019	\$16.67	0.053	\$0.885
4	2020	\$17.86	0.053	\$0.948
5	2021	\$19.11	0.053	\$1.015
6	2022	\$20.44	0.053	\$1.085
7	2023	\$21.86	0.053	\$1.160
8	2024	\$23.36	0.053	\$1.240
9	2025	\$24.98	0.053	\$1.326
10	2026	\$26.70	0.053	\$1.418
11	2027	\$28.57	0.053	\$1.517
12	2028	\$30.58	0.053	\$1.623
13	2029	\$32.72	0.053	\$1.737
14	2030	\$35.02	0.053	\$1.859
15	2031	\$37.48	0.053	\$1.989
16	2032	\$40.10	0.053	\$2.129
17	2033	\$42.91	0.053	\$2.278
18	2034	\$45.91	0.053	\$2.437
19	2035	\$48.66	0.053	\$2.583
20	2036	\$51.58	0.053	\$2.738
21	2037			\$0.000
22	2038			\$0.000
23	2039			\$0.000
24	2040			\$0.000
25	2041			\$0.000
26	2042			\$0.000
27	2043			\$0.000
28	2044			\$0.000
29	2045			\$0.000
30	2046			\$0.000
31	2047			\$0.000
32	2048			\$0.000
33	2049			\$0.000
34	2050			\$0.000
35	2051			\$0.000
36	2052			\$0.000
37	2053			\$0.000
38	2054			\$0.000
39	2055			\$0.000
40	2056			\$0.000
41	2057			\$0.000
42	2058			\$0.000
43	2059			\$0.000
44	2060			\$0.000
45	2061			\$0.000

Infrastructure Capacity Cost Inputs

Real or Nominal?	Nominal
Source and Pg #:	
Source Link or File Name:	2018 IRP Expected Case
Source Notes:	per day costs of Jackson prairie O&M/Capital for Avistas share of owned storage

Infrastructure Capacity Costs

Year #	Calendar Year	Infrastructure Capacity Costs		
		Supply (Real 2016\$/Dth/Day)	Distribution Peak DAY (Real 2016\$/Dth/Day)	Distribution Peak HOUR (Real 2016\$/Dth/Hour)
1	2017	\$ (0.00166)	\$0.000	\$0.000
2	2018	\$ (0.00167)	\$0.000	\$0.000
3	2019	\$ (0.00168)	\$0.000	\$0.000
4	2020	\$ (0.00173)	\$0.000	\$0.000
5	2021	\$ (0.00177)	\$0.000	\$0.000
6	2022	\$ (0.00182)	\$0.000	\$0.000
7	2023	\$ (0.00192)	\$0.000	\$0.000
8	2024	\$ (0.00198)	\$0.000	\$0.000
9	2025	\$ (0.00204)	\$0.000	\$0.000
10	2026	\$ (0.00212)	\$0.000	\$0.000
11	2027	\$ (0.00215)	\$0.000	\$0.000
12	2028	\$ (0.00221)	\$0.000	\$0.000
13	2029	\$ (0.00228)	\$0.000	\$0.000
14	2030	\$ (0.00232)	\$0.000	\$0.000
15	2031	\$ (0.00245)	\$0.000	\$0.000
16	2032	\$ (0.00247)	\$0.000	\$0.000
17	2033	\$ (0.00260)	\$0.000	\$0.000
18	2034	\$ (0.00266)	\$0.000	\$0.000
19	2035	\$ (0.00282)	\$0.000	\$0.000
20	2036	\$ (0.00238)	\$0.000	\$0.000
21	2037			
22	2038			
23	2039			
24	2040			
25	2041			
26	2042			
27	2043			
28	2044			
29	2045			
30	2046			
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32	2048			
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41	2057			
42	2058			
43	2059			
44	2060			
45	2061			

Risk Reduction Value Inputs

Real or Nominal?	
Source and Pg #:	
Source Link or File Name:	
Source Notes:	Do not have values in 2018 IRP

\$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

Year #	Calendar Year	Risk Reduction Value (Real 2016\$/Dth)
1	2017	\$0.000
2	2018	\$0.000
3	2019	\$0.000
4	2020	\$0.000
5	2021	\$0.000
6	2022	\$0.000
7	2023	\$0.000
8	2024	\$0.000
9	2025	\$0.000
10	2026	\$0.000
11	2027	\$0.000
12	2028	\$0.000
13	2029	\$0.000
14	2030	\$0.000
15	2031	\$0.000
16	2032	\$0.000
17	2033	\$0.000
18	2034	\$0.000
19	2035	\$0.000
20	2036	\$0.000

End Use Load Profiles & Peak Day/Hour Ratios

Source and Pg # and/or Table #:	2018 Natural Gas IRP - Avista
Source Link or File Name:	
Source Notes:	

2019-2020 OR Peak Day 97,511 OR Peak Hour 4,327

End Use Load Profiles		Monthly Share of Normal Weather Annual Load												Avg. monthly	Peak to Annual Normal Weather Usage Ratios	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Peak Day	Peak Hour
New Building Construction	Commercial	0.000237	0.000313	0.000347	0.000504	0.000825	0.001284	0.001343	0.001331	0.001268	0.000593	0.000327	0.000233	366.3191675	0.010399616	0.000461483
Retrofit	Commercial	0.000290	0.000383	0.000425	0.000617	0.001011	0.001573	0.001645	0.001630	0.001553	0.000726	0.000400	0.000285	448.603046		
Replacement on Burnout	Commercial	0.000184	0.000243	0.000270	0.000392	0.000642	0.000999	0.001044	0.001035	0.000986	0.000461	0.000254	0.000181	284.8012216		
Strategic Energy Management	Commercial	0.000056	0.000074	0.000083	0.000120	0.000196	0.000305	0.000319	0.000316	0.000301	0.000141	0.000078	0.000055	87.07993873		
Retrofit	Industrial	0.000054	0.000072	0.000080	0.000116	0.000189	0.000295	0.000308	0.000306	0.000291	0.000136	0.000075	0.000053	84.07494928		
Replacement on Burnout	Industrial	0.000005	0.000007	0.000008	0.000011	0.000018	0.000029	0.000030	0.000030	0.000028	0.000013	0.000007	0.000005	8.159654965		
New Home Construction	Residential	0.000570	0.000752	0.000834	0.001210	0.001982	0.003085	0.003226	0.003198	0.003045	0.001424	0.000785	0.000559	879.8674465		
Retrofit	Residential	0.000241	0.000319	0.000354	0.000513	0.000840	0.001308	0.001367	0.001356	0.001291	0.000604	0.000333	0.000237	372.9994834		
Replacement on Burnout	Residential	0.000229	0.000302	0.000335	0.000486	0.000797	0.001240	0.001297	0.001285	0.001224	0.000573	0.000316	0.000225	353.6608224		
Smart Thermostat	Residential	0.000371	0.000489	0.000543	0.000788	0.001291	0.002009	0.002100	0.002082	0.001983	0.000927	0.000511	0.000364	572.9013114		
Mega-Project Adder	Other	0.000126	0.000166	0.000184	0.000267	0.000437	0.000681	0.000712	0.000705	0.000672	0.000314	0.000173	0.000123	194.0848021		
20 years (2017 - 2037) avg, by month, normal weather		1,544,800	1,170,710	1,054,580	727,380	443,880	285,200	272,780	275,150	288,930	617,720	1,120,950	1,574,350			

Average per month of 20 years of EE vs. normal weather annual load. Peak day in for Oregon territories only for the upcoming winter season (2019-2020). Peak hour takes the peak day/24*1.065

Alternative Submissions	Rationale for alternative submission: <i>Provide an overall rationale for providing alternative values - use the 'Source Notes/Rationale' column to provide more detailed rationale for individual inputs.</i>
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Global Assumptions Inputs			SOURCING				
<i>Provide as much detail as possible with sourcing including a link. Ensure that dollar years listed here are the same as the source.</i>							
Avoided Cost Element	Units	Value	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes
Discount Rate (Company's Real after-tax weighted average cost of capital (WACC))	Percent						
Inflation Rate	Percent						
Regional Act Credit	Percent	10.00%	N/A				
Forecast Period Calendar Start Year	Year	2020					
Real Dollar Base Year	Year	2020					

Alternative Submissions	Rationale for alternative submission: <i>Provide an overall rationale for providing alternative values using this box</i>
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Commodity Price Inputs

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

Gas Commodity and Transportation/Storage Costs (Real 2020\$/Dth)

Year #	Calendar Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2020												
2	2021												
3	2022												
4	2023												
5	2024												
6	2025												
7	2026												
8	2027												
9	2028												
10	2029												
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38	2057												
39	2058												
40	2059												
41	2060												
42	2061												
43	2062												
44	2063												
45	2064												

Alternative Submissions	Rationale for alternative submission: <i>Provide an overall rationale for providing alternative values using this box</i>
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Environmental Compliance Cost Inputs

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

Environmental Compliance Cost

Year #	Calendar Year	Environmental Compliance Cost (Real 2020\$/MTCO2e)	Carbon Intesity (MTCO2e/Dth)	Environmental Compliance Cost (Real 2020\$/Dth)
1	2020		0.05308530	\$0.000
2	2021		0.05308530	\$0.000
3	2022		0.05308530	\$0.000
4	2023		0.05308530	\$0.000
5	2024		0.05308530	\$0.000
6	2025		0.05308530	\$0.000
7	2026		0.05308530	\$0.000
8	2027		0.05308530	\$0.000
9	2028		0.05308530	\$0.000
10	2029		0.05308530	\$0.000
11	2030		0.05308530	\$0.000
12	2031		0.05308530	\$0.000
13	2032		0.05308530	\$0.000
14	2033		0.05308530	\$0.000
15	2034		0.05308530	\$0.000
16	2035		0.05308530	\$0.000
17	2036		0.05308530	\$0.000
18	2037		0.05308530	\$0.000
19	2038		0.05308530	\$0.000
20	2039		0.05308530	\$0.000
21	2040			\$0.000
22	2041			\$0.000
23	2042			\$0.000
24	2043			\$0.000
25	2044			\$0.000
26	2045			\$0.000
27	2046			\$0.000
28	2047			\$0.000
29	2048			\$0.000
30	2049			\$0.000
31	2050			\$0.000
32	2051			\$0.000
33	2052			\$0.000
34	2053			\$0.000
35	2054			\$0.000
36	2055			\$0.000
37	2056			\$0.000
38	2057			\$0.000
39	2058			\$0.000
40	2059			\$0.000
41	2060			\$0.000
42	2061			\$0.000
43	2062			\$0.000
44	2063			\$0.000
45	2064			\$0.000

Alternative Submissions	Rationale for alternative submission: <i>Provide an overall rationale for providing alternative values using this box</i>
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Infrastructure Capacity Cost Inputs

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

Infrastructure Capacity Costs

Year #	Calendar Year	Infrastructure Capacity Costs		
		Supply (Real 2016\$/Dth/Day)	Distribution Peak DAY (Real 2016\$/Dth/Day)	Distribution Peak HOUR (Real 2016\$/Dth/Hour)
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			
21	2040			
22	2041			
23	2042			
24	2043			
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			

Alternative Submissions	Rationale for alternative submission: <i>Provide an overall rationale for providing alternative values using this box</i>
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Risk Reduction Value Inputs

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

No Data Entered

= 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

Year #	Calendar Year	Risk Reduction Value (Real 2020\$/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	

