



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)

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(For example, federal regulations, or requested by Staff)

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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.



Avista Corp.

1411 East Mission P.O. Box 3727
Spokane, Washington 99220-0500
Telephone 509-489-0500
Toll Free 800-727-9170

February 29, 2024

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Salem, OR 97301-3612

RE: Docket No. RG 85 – Avista Utilities Energy Efficiency Avoided Cost Report

Filing Center:

Pursuant to OAR 860-030-0011, attached for filing with the Commission is an electronic copy of the 2023 Energy Efficiency Avoided Cost Report (Report) of Avista Corporation, dba Avista Utilities (Avista or the Company). In accordance with OAR 860-030-0011(2)(a), the information contained within this year's Report is based off of Avista's 2023 Integrated Resource Plan (IRP),¹ which is the Company's most recent IRP. The Company did not provide any "Alternative Submission" within this year's Report.

If you have any questions regarding this filing, please contact Tom Pardee at (509) 495-2159.

Sincerely,

/s/ Jaime Majure

Jaime Majure
Regulatory Affairs Manager

¹ See Docket No. LC 81.

Energy Efficiency Avoided Cost Submission Template - Natural Gas	
Utility Name:	Please Select
Submission Date:	Fill
Instructions and Definitions	
<p><> Please fill out this workbook as completely as possible and per the instructions.</p> <p><> Inputs will be reviewed and approved by the OPUC before being sent to the Energy Trust of Oregon for use in Avoided Cost development.</p> <p><> 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. <i>This will increase the efficiency of this process and require less iteration during the OPUC review period.</i></p> <p><i>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.</i></p>	
1) Global Inputs - IRP	
<p><> 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.</p> <p><> If supply or distribution capacity values were proportioned using a system peak coincident factor, 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.</p> <p><> 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.</p> <p><> Ensure that the dollar years of the data inputs match the source - Energy Trust will inflate to the proper year.</p>	
2) Commodity and Transport - IRP	
<p><> Provide Commodity and Transport price forecast by month.</p> <p><> Indicate if the forecast is in nominal or real dollars (if real, dollar value will populate headers from Global Inputs tab).</p>	
3) Environmental Compliance - IRP	
<p><> Provide the \$/Metric Ton of CO2 assumed for each year of the forecast.</p> <p><> Provide the metric ton of CO2/dekatherm assumed for each year of the forecast.</p> <p><> Column 'F' is a calculated field, which multiplies the \$/metric ton of CO2 by the CO2/dekatherm.</p>	
4) Infrastructure Capacity - IRP	
<p><> Provide the Supply Infrastructure Capacity Cost in a \$/Dth/Day format for each year available of the forecast period.</p> <p><> Provide the Distribution Infrastructure Capacity Cost in a \$/Dth/Day and \$/Dth/Hour format for each year available of the forecast period.</p> <p><> If supply or distribution capacity values were proportioned using a system peak coincident factor, please provide the corresponding system peak coincident factor in "Global Inputs - IRP" tab on rows 17 and 19.</p>	
5) Risk Reduction - IRP	
<p><> Provide the Risk Reduction value in a \$/Dth format if available for each year available of the forecast period.</p> <p><> 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.</p>	
6) End Use Profiles - IRP	
<p><> Provide the Monthly share of annual load for the utility's system by end use, if available.</p> <p><> Provide the peak day/annual load and peak hour/annual load ratios by end use, if available.</p> <p><> End-use profiles are meant to represent the timing of savings, these can be derived from either savings profiles or load profiles.</p>	
1a, 2a, 3a, 4a, 5a, 6a) Alternative Submissions	
<p><> These worksheets provide a location for the utility to present alternative values to those found in the most recently acknowledged IRP, IRP Update, or General Rate Case.</p> <p><> Submissions in these tabs are not required.</p> <p><> Provide a rationale for submitting the alternative values in the box provided at the top of each alternative worksheet.</p> <p><> 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.</p>	

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	4.52%	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2023-gas-irp-appendix.pdf	264			System weighted
Inflation Rate	Percent	2.00%					GPD price deflator assumption
Regional Act Credit	Percent	10.00%	N/A				
Forecast Period Calendar Start Year	Year	2023	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2023-gas-irp-final.pdf	ii	Figure 2		Data begins in January 2023
Real Dollar Base Year	Year	2022					
System Peak Definition	Calendar Month/Day/Hour	February 28th & December 20th	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2023-gas-irp-final.pdf	2-11			(WA, ID, La Grande) - 2/28 & (Klamath, Roseburg, Medford) - 12/20
System Peak Coincident Day Factor (if needed)	Peak Day/Annual Load Ratio	0.0094	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2023-gas-irp-appendix.pdf	86			Peak day and annual load 2023
System Peak Coincident Hour Factor (if needed)	Peak Hour/Annual Load Ratio	0.0004	https://www.myavista.com/-/media/myavista/content-documents/about-us/our-company/irp-documents/natural-gas-irp-documents/2023-gas-irp-appendix.pdf	86			Peak hour (peak day/24*1.065) and 2023 Annual Load

Commodity Price Inputs

Real or Nominal?	Nominal
Source and Pg #:	
Source Link or File Name:	
Source Notes:	Values reflect the cost to serve the next unit of load without consideration for compliance with CPP emission targets. Options to serve load include RNG, Hydrogen, Synthetic Methane, electrification and demand response.

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

Year #	Calendar Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2023	\$8.53	\$8.93	\$6.74	\$4.92	\$4.78	\$4.80	\$4.96	\$4.96	\$4.47	\$4.83	\$5.19	\$5.42
2	2024	\$5.28	\$6.29	\$4.38	\$3.91	\$3.88	\$4.11	\$4.18	\$4.09	\$3.94	\$4.21	\$4.49	\$4.86
3	2025	\$4.30	\$5.05	\$3.82	\$3.52	\$3.41	\$3.31	\$3.31	\$3.30	\$3.30	\$3.21	\$3.52	\$3.95
4	2026	\$3.52	\$4.31	\$3.31	\$3.03	\$2.98	\$3.01	\$3.01	\$3.02	\$2.91	\$3.02	\$3.31	\$3.56
5	2027	\$3.30	\$3.83	\$3.07	\$2.95	\$2.89	\$2.92	\$2.91	\$2.91	\$2.73	\$2.80	\$3.23	\$3.47
6	2028	\$3.27	\$4.07	\$2.98	\$2.97	\$2.90	\$2.91	\$2.91	\$2.89	\$2.77	\$2.85	\$3.24	\$3.49
7	2029	\$3.47	\$3.95	\$3.05	\$3.10	\$3.03	\$3.05	\$3.01	\$3.04	\$2.87	\$2.93	\$3.32	\$3.56
8	2030	\$3.50	\$3.87	\$3.16	\$3.21	\$3.14	\$3.15	\$3.10	\$3.12	\$2.90	\$2.97	\$3.39	\$3.65
9	2031	\$3.61	\$3.89	\$3.17	\$3.31	\$3.20	\$3.24	\$3.20	\$3.21	\$3.07	\$3.20	\$3.53	\$3.90
10	2032	\$3.72	\$4.10	\$3.40	\$3.35	\$3.28	\$3.30	\$3.28	\$3.31	\$3.05	\$3.15	\$3.70	\$4.10
11	2033	\$3.97	\$4.35	\$3.56	\$3.48	\$3.43	\$3.45	\$3.40	\$3.44	\$3.26	\$3.35	\$3.88	\$4.14
12	2034	\$4.04	\$4.37	\$3.65	\$3.60	\$3.50	\$3.54	\$3.50	\$3.48	\$3.26	\$3.39	\$3.86	\$4.17
13	2035	\$4.12	\$4.35	\$3.92	\$3.71	\$3.60	\$3.64	\$3.59	\$3.59	\$3.40	\$3.55	\$4.01	\$4.30
14	2036	\$4.25	\$4.69	\$3.72	\$3.77	\$3.70	\$3.72	\$3.70	\$3.69	\$3.45	\$3.57	\$4.18	\$4.56
15	2037	\$4.50	\$4.66	\$4.05	\$3.90	\$3.79	\$3.81	\$3.78	\$3.75	\$3.52	\$3.64	\$4.26	\$4.60
16	2038	\$4.54	\$4.79	\$4.13	\$4.00	\$3.90	\$3.93	\$3.90	\$3.86	\$3.64	\$3.76	\$4.31	\$4.71
17	2039	\$4.70	\$4.84	\$4.24	\$4.13	\$4.04	\$4.08	\$4.04	\$4.01	\$3.74	\$3.88	\$4.52	\$5.03
18	2040	\$5.08	\$5.24	\$4.31	\$4.32	\$4.23	\$4.26	\$4.22	\$4.21	\$3.90	\$4.04	\$4.79	\$5.36
19	2041	\$5.41	\$5.37	\$4.66	\$4.49	\$4.38	\$4.41	\$4.38	\$4.34	\$4.02	\$4.16	\$4.93	\$5.46
20	2042	\$5.53	\$5.44	\$4.80	\$4.65	\$4.54	\$4.57	\$4.54	\$4.49	\$4.19	\$4.32	\$5.15	\$5.62
21	2043	\$5.71	\$5.59	\$4.88	\$4.93	\$4.83	\$4.87	\$4.83	\$4.78	\$4.49	\$4.66	\$5.48	\$5.88
22	2044	\$5.98	\$5.86	\$5.07	\$5.03	\$4.91	\$4.91	\$4.89	\$4.80	\$4.51	\$4.65	\$5.55	\$5.99
23	2045	\$6.10	\$5.89	\$5.15	\$5.25	\$5.11	\$5.14	\$5.12	\$5.01	\$4.75	\$4.87	\$5.80	\$6.15
24	2046												
25	2047												
26	2048												
27	2049												
28	2050												
29	2051												
30	2052												
31	2053												
32	2054												
33	2055												
34	2056												
35	2057												
36	2058												
37	2059												
38	2060												
39	2061												
40	2062												
41	2063												
42	2064												
43	2065												
44	2066												
45	2067												

Environmental Compliance Cost Inputs

Real or Nominal?	Nominal
Source and Pg #:	
Source Link or File Name:	
Source Notes:	Values reflect the annual average cost per dekatherm deltas between the PRS case in the 2023 Natural Gas IRP and the same case without consideration of compliance with CPP emission targets. This includes RNG, Hydrogen, Synthetic Methane, Demand Reponse and CCIs

Environmental Compliance Cost

Year #	Calendar Year	Environmental Compliance Cost (\$/MTCO2e)	Carbon Intesity (MTCO2e/Dth)	Environmental Compliance Cost (\$/Dth)
1	2023	\$29	0.0531	\$1.520
2	2024	\$109	0.0531	\$5.788
3	2025	\$118	0.0531	\$6.245
4	2026	\$122	0.0531	\$6.491
5	2027	\$126	0.0531	\$6.709
6	2028	\$131	0.0531	\$6.943
7	2029	\$206	0.0531	\$10.910
8	2030	\$216	0.0531	\$11.455
9	2031	\$226	0.0531	\$12.005
10	2032	\$233	0.0531	\$12.360
11	2033	\$246	0.0531	\$13.074
12	2034	\$381	0.0531	\$20.205
13	2035	\$397	0.0531	\$21.046
14	2036	\$392	0.0531	\$20.810
15	2037	\$396	0.0531	\$21.026
16	2038	\$397	0.0531	\$21.053
17	2039	\$366	0.0531	\$19.407
18	2040	\$332	0.0531	\$17.593
19	2041	\$300	0.0531	\$15.915
20	2042	\$269	0.0531	\$14.302
21	2043	\$234	0.0531	\$12.426
22	2044	\$203	0.0531	\$10.752
23	2045	\$170	0.0531	\$9.036
24	2046			
25	2047			
26	2048			
27	2049			
28	2050			
29	2051			
30	2052			
31	2053			
32	2054			
33	2055			
34	2056			
35	2057			
36	2058			
37	2059			
38	2060			
39	2061			
40	2062			
41	2063			
42	2064			
43	2065			
44	2066			
45	2067			

Infrastructure Capacity Cost Inputs

Real or Nominal?	
Source and Pg #:	
Source Link or File Name:	
Source Notes:	Prior versions included per day costs of Jackson prairie O&M/Capital for Avista's share of owned storage; however, these costs are now embedded in the results found on tab 2) Commodity & Transport - IRP.

Infrastructure Capacity Costs

Year #	Calendar Year	Infrastructure Capacity Costs		
		Supply \$/Dth/Day	Distribution Peak DAY (\$/Dth/Day)	Distribution Peak HOUR (\$/Dth/Hour)
1	2023			
2	2024			
3	2025			
4	2026			
5	2027			
6	2028			
7	2029			
8	2030			
9	2031			
10	2032			
11	2033			
12	2034			
13	2035			
14	2036			
15	2037			
16	2038			
17	2039			
18	2040			
19	2041			
20	2042			
21	2043			
22	2044			
23	2045			
24	2046			
25	2047			
26	2048			
27	2049			
28	2050			
29	2051			
30	2052			
31	2053			
32	2054			
33	2055			
34	2056			
35	2057			
36	2058			
37	2059			
38	2060			
39	2061			
40	2062			
41	2063			
42	2064			
43	2065			
44	2066			
45	2067			

Risk Reduction Value Inputs

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

\$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 (\$/Dth)
1	2023	\$0.000
2	2024	\$0.000
3	2025	\$0.000
4	2026	\$0.000
5	2027	\$0.000
6	2028	\$0.000
7	2029	\$0.000
8	2030	\$0.000
9	2031	\$0.000
10	2032	\$0.000
11	2033	\$0.000
12	2034	\$0.000
13	2035	\$0.000
14	2036	\$0.000
15	2037	\$0.000
16	2038	\$0.000
17	2039	\$0.000
18	2040	\$0.000
19	2041	\$0.000
20	2042	\$0.000

End Use Profiles & Peak Day/Hour Ratios

Source and Pg # and/or Table #:	2023 IRP
Source Link or File Name:	https://www.myavista.com/-/media/
Source Notes:	Avista 2023 IRP - ETO study used for

2023 OR Peak Day 90,114 OR Peak Hour 3,999

End Use Profiles	Monthly Share of Normal Weather Annual Load												2023	Peak to Annual Normal Weather Usage Ratios	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Peak Day	Peak Hour
Com-New	0.00256	0.00314	0.00374	0.00538	0.00857	0.01193	0.01310	0.01271	0.01171	0.00597	0.00345	0.00233	3,855	0.009389	0.000417
NEEA-MartetTX	0.00289	0.00356	0.00423	0.00609	0.00970	0.01349	0.01483	0.01438	0.01324	0.00676	0.00391	0.00264	4,362		
Com-ROB	0.00116	0.00143	0.00170	0.00245	0.00390	0.00543	0.00596	0.00578	0.00533	0.00272	0.00157	0.00106	1,754		
Com-SEM	0.00046	0.00057	0.00068	0.00097	0.00155	0.00216	0.00237	0.00230	0.00212	0.00108	0.00062	0.00042	697		
Com-RET	0.00721	0.00886	0.01053	0.01517	0.02417	0.03362	0.03694	0.03583	0.03300	0.01683	0.00973	0.00658	10,868		
Ind-RET	0.00448	0.00551	0.00655	0.00944	0.01504	0.02092	0.02299	0.02229	0.02053	0.01047	0.00606	0.00409	6,762		
Ind-SEM	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ind-ROB	-	-	-	-	-	-	-	-	-	-	-	-	-		
Res-ManufNH	0.00059	0.00073	0.00087	0.00125	0.00200	0.00278	0.00305	0.00296	0.00272	0.00139	0.00080	0.00054	897		
Res-NewHomes	0.00176	0.00217	0.00258	0.00371	0.00592	0.00823	0.00905	0.00877	0.00808	0.00412	0.00238	0.00161	2,661		
Res-MarketTx	0.00891	0.01095	0.01301	0.01875	0.02987	0.04155	0.04566	0.04428	0.04078	0.02080	0.01203	0.00813	13,431		
Res-Tstat	0.00200	0.00245	0.00292	0.00420	0.00669	0.00931	0.01023	0.00992	0.00914	0.00466	0.00270	0.00182	3,010		
Res-TstatOpt	0.00004	0.00004	0.00005	0.00008	0.00012	0.00017	0.00019	0.00018	0.00017	0.00009	0.00005	0.00003	55		
Res-WaterHeat	0.00017	0.00021	0.00025	0.00035	0.00056	0.00078	0.00086	0.00084	0.00077	0.00039	0.00023	0.00015	253		
Res-Shell	0.00118	0.00145	0.00172	0.00248	0.00396	0.00550	0.00605	0.00586	0.00540	0.00275	0.00159	0.00108	1,779		
Res-Heat-ROB	0.00094	0.00115	0.00137	0.00197	0.00315	0.00438	0.00481	0.00466	0.00430	0.00219	0.00127	0.00086	1,415		
MF-RET	0.00013	0.00016	0.00019	0.00027	0.00043	0.00060	0.00066	0.00064	0.00059	0.00030	0.00017	0.00012	194		
MF-ROB	0.00051	0.00063	0.00075	0.00108	0.00172	0.00240	0.00263	0.00255	0.00235	0.00120	0.00069	0.00047	775		
Large-Project Adder	-	-	-	-	-	-	-	-	-	-	-	-	-		
Com-Cooking	0.00124	0.00152	0.00181	0.00261	0.00415	0.00578	0.00635	0.00616	0.00567	0.00289	0.00167	0.00113	1,868		
	1,508,248	1,226,557	1,032,032	716,392	449,619	323,232	294,167	303,319	329,330	645,657	1,116,457	1,652,419			

Notes: