



Electric Company ESG/Sustainability Quantitative Information

Parent Company: Avista Corporation
Operating Company(s): Avista Utilities
Business Type(s): Electrical generation and distribution
State(s) of Operation: ID, WA
State(s) with RPS Programs: WA
Regulatory Environment: Regulated
Report Date: 12/9/2022

Portfolio	Baseline	Prior Reported Years				Current Year	Additional Information and Notes
	2005	2017	2018	2019	2020	2021	
Owned Nameplate Generation Capacity at end of year (MW)							
Coal	233.4	233.4	233.4	233.4	233.4	233.4	
Natural Gas	552.3	555.1	555.1	555.1	555.1	556.5	
Nuclear	-	-	-	-	-	-	
Petroleum	-	-	-	-	-	-	
Total Renewable Energy Resources	953.1	991.1	991.1	991.1	995.0	995.0	
Biomass/Biogas	50.7	50.7	50.7	50.7	50.7	50.7	
Geothermal	-	-	-	-	-	-	
Hydroelectric	902.4	940.4	940.4	940.4	944.3	944.3	
Solar	-	-	-	-	-	-	
Wind	-	-	-	-	-	-	
Other	-	-	-	-	-	-	
Total	1,738.8	1,779.6	1,779.6	1,779.6	1,783.5	1,784.9	
Net Generation for the data year (MWh) [Scope 1 + Scope 3]							
Coal	1,770,709	1,423,319	1,389,037	1,582,048	1,220,311	1,521,720	
Natural Gas	1,557,418	3,090,056	3,289,220	3,953,871	3,673,474	3,610,615	
Nuclear	-	-	-	-	-	-	
Petroleum	-	-	-	-	-	-	
Total Renewable Energy Resources	5,241,484	5,744,077	6,050,510	5,505,980	5,865,417	6,324,678	
Biomass/Biogas	375,016	325,150	373,141	356,065	302,429	359,064	
Geothermal	-	-	-	-	-	-	
Hydroelectric	4,793,778	5,118,061	5,348,045	4,804,872	5,109,874	5,137,342	
Solar	-	486	2,152	42,907	45,815	43,979	
Wind	72,690	300,380	327,172	302,136	407,299	784,293	
Other	4,727,481	2,195,037	2,218,771	1,876,316	1,830,016	1,213,435	
Total	13,297,092	12,452,489	12,947,538	12,918,215	12,589,218	12,670,448	
Owned Net Generation for the data year (MWh) [Scope 1]							
Coal	1,770,709	1,423,319	1,389,037	1,582,048	1,220,311	1,521,720	
Natural Gas	1,557,418	1,762,809	1,697,829	2,155,469	1,988,395	1,790,247	
Nuclear	-	-	-	-	-	-	
Petroleum	-	-	-	-	-	-	
Total Renewable Energy Resources	3,948,993	4,268,177	4,366,311	3,835,996	3,915,351	3,921,302	
Biomass/Biogas	338,170	290,117	336,936	316,112	264,851	322,814	
Geothermal	-	-	-	-	-	-	
Hydroelectric	3,610,823	3,978,060	4,029,375	3,519,884	3,650,500	3,598,488	
Solar	-	-	-	-	-	-	
Wind	-	-	-	-	-	-	
Other	-	-	-	-	-	-	
Total	7,277,120	7,454,305	7,453,177	7,573,513	7,124,057	7,233,269	
Purchased Net Generation for the data year (MWh) [Scope 3]							
Coal	-	-	-	-	-	-	
Natural Gas	-	1,327,247	1,591,391	1,798,402	1,685,079	1,820,368	
Nuclear	-	-	-	-	-	-	
Petroleum	-	-	-	-	-	-	
Total Renewable Energy Resources	1,292,491	1,475,900	1,684,199	1,669,984	1,950,066	2,403,376	
Biomass/Biogas	36,846	35,033	36,205	39,953	37,578	36,250	
Geothermal	-	-	-	-	-	-	
Hydroelectric	1,182,955	1,140,001	1,318,670	1,284,988	1,459,374	1,538,854	
Solar	-	486	2,152	42,907	45,815	43,979	
Wind	72,690	300,380	327,172	302,136	407,299	784,293	
Other	4,727,481	2,195,037	2,218,771	1,876,316	1,830,016	1,213,435	
Total	6,019,972	4,998,184	5,494,361	5,344,702	5,465,161	5,437,179	

Note: Data sourced from EPA GHG MRR Subparts C, D, W, and DD; EIA Form 861; SEC form 10-K; and FERC Form 1.
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	Baseline	Prior Reported Years				Current Year	Additional Information and Notes
Portfolio	2005	2017	2018	2019	2020	2021	
Capital Expenditures and Energy Efficiency (EE)							
Total Annual Capital Expenditures (nominal dollars)	\$ 259,675,718	\$ 406,201,555	\$ 420,377,970	\$ 439,249,001	\$ 399,504,892	\$ 441,862,369	
Incremental Annual Electricity Savings from EE Measures (MWh)	56,571	115,687	73,186	66,933	40,897	55,816	
Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 4,500,000	\$ 32,775,000	\$ 24,923,000	\$ 21,678,737	\$ 17,343,392	\$ 19,322,449	
Retail Electric Customer Count (at end of year)							
Commercial	37,282	42,153	42,618	42,930	43,399	44,110	
Industrial	1,407	1,328	1,318	1,305	1,297	1,205	
Residential	294,036	334,848	340,308	345,064	349,890	356,387	
Emissions							
GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)							
Owned Generation (1) (2) (3) [Scope 1]							
Carbon Dioxide (CO2)							
Total Owned Generation CO2 Emissions (MT)	2,353,791	2,070,820	2,049,381	2,346,316	1,949,751	2,183,371	
Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.323	0.278	0.275	0.310	0.274	0.302	
Carbon Dioxide Equivalent (CO2e)							
Total Owned Generation CO2e Emissions (MT)	2,371,430	2,093,789	2,072,194	2,371,368	1,968,205	2,204,752	
Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.326	0.281	0.278	0.313	0.276	0.305	
Purchased Power (4) [Scope 3]							
Carbon Dioxide (CO2)							
Total Purchased Generation CO2 Emissions (MT)	1,934,718	1,158,821	1,262,042	1,226,640	1,173,903	1,024,121	
Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.321	0.232	0.230	0.230	0.215	0.188	
Carbon Dioxide Equivalent (CO2e)							
Total Purchased Generation CO2e Emissions (MT)	1,934,783	1,163,296	1,266,681	1,231,075	1,178,206	1,026,863	
Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.321	0.233	0.231	0.230	0.216	0.189	
Owned Generation + Purchased Power [Scope 1 + Scope 3]							
Carbon Dioxide (CO2)							
Total Owned + Purchased Generation CO2 Emissions (MT)	4,288,509	3,229,641	3,311,423	3,572,956	3,123,654	3,207,492	
Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.323	0.259	0.256	0.277	0.248	0.253	
Carbon Dioxide Equivalent (CO2e)							
Total Owned + Purchased Generation CO2e Emissions (MT)	4,306,213	3,257,085	3,338,875	3,602,443	3,146,411	3,231,615	
Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.324	0.262	0.258	0.279	0.250	0.255	
Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)							
Total CO2e emissions of SF6 (MT)	N/A	3,083	10,785	6,869	N/A	9,866	
Leak rate of CO2e emissions of SF6 (MT/Net MWh)	N/A	0.000248	0.000833	0.000532	N/A	0.000779	
Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)							
Generation basis for calculation (6)							
Nitrogen Oxide (NOx)							
Total NOx Emissions (MT)	3,954	1,549	1,588	1,684	1,247	1,602	
Total NOx Emissions Intensity (MT/Net MWh)	0.000543	0.000208	0.000213	0.000222	0.000175	0.000221	
Sulfur Dioxide (SO2)							
Total SO2 Emissions (MT)	776	636	598	675	245	554	
Total SO2 Emissions Intensity (MT/Net MWh)	0.000107	0.000085	0.000080	0.000089	0.000034	0.000077	
Mercury (Hg)							
Total Hg Emissions (kg)	146	118	117	127	101	124	
Total Hg Emissions Intensity (kg/Net MWh)	0.000020	0.000016	0.000016	0.000017	0.000014	0.000017	

Note: Data sourced from EPA GHG MRR Subparts C, D, W, and DD; EIA Form 861; SEC form 10-K; and FERC Form 1.
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Resources	Baseline	Prior Reported Years				Current Year	Additional Information and Notes
	2005	2017	2018	2019	2020	2021	
Human Resources							
Total Number of Employees	1,406	1,738	1,763	1,791	1,798	1,809	
Percentage of Women in Total Workforce	29.7%	28.5%	28.5%	28.9%	29.7%	29.0%	
Percentage of Minorities in Total Workforce	6.2%	7.9%	8.2%	7.8%	8.1%	8.2%	
Total Number on Board of Directors/Trustees	11	11	10	11	11	11	
Percentage of Women on Board of Directors/Trustees	18.2%	36.4%	40.0%	36.4%	36.4%	45.5%	
Percentage of Minorities on Board of Directors/Trustees	9.1%	9.1%	10.0%	9.1%	9.1%	18.2%	
Employee Safety Metrics							
Recordable Incident Rate	6.20	3.96	4.80	3.15	3.27	3.71	Employee Safety Metrics exclude work-related COVID-19 cases for 2020 and 2021 for data consistency purposes.
Lost-time Case Rate	0.32	1.52	1.68	1.25	1.49	1.49	
Days Away, Restricted, and Transfer (DART) Rate	0.32	2.38	2.28	1.96	1.90	2.09	
Work-related Fatalities	0.00	0.00	0.00	0.00	0.00	0.00	
Fresh Water Resources used in Thermal Power Generation Activities							
Water Withdrawals - Consumptive (Millions of Gallons)	7,094	5,990	5,854	6,177	4,938	5,302	
Water Withdrawals - Non-Consumptive (Millions of Gallons)	38	57	63	63	60	69	
Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	0.001935	0.001723	0.001710	0.001524	0.001421	0.001459	
Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	0.000010	0.000016	0.000019	0.000016	0.000017	0.000019	
Waste Products							
Amount of Hazardous Waste Manifested for Disposal	6,100	22,651	34,925	32,276	13,180	6,948	
Percent of Coal Combustion Products Beneficially Used	0%	0%	0%	0%	0%	0%	

Key:

MT = metric tons
 1 lb. = 453.59 grams
 1 tonne = 1,000,000.00 grams
 1 metric ton = 1.1023 short tons
 Total output-based emissions factor = CO2 - 600 lb/MWh; CO2e - 603.8 lb/MWh, emission factor from eGRID 2020 GHG Annual Output Emission Rates, WECC Northwest.

Notes:

- (1) Generation and emissions are adjusted for equity ownership share to reflect the percentage of output owned by reporting entity.
- (2) CO2 and CO2e emissions intensity should be reported using total system generation (net MWh) based on EEI GHG worksheet.
- (3) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subparts C and D).
- (4) Purchased power emissions should be calculated using the most relevant and accurate of the following methods:
 - For direct purchases, such as PPAs, use the direct emissions data as reported to EPA.
 - For market purchases where emissions are unknown, use applicable regional or national emissions rate:
 - ISO/RTO-level emission factors
 - Climate Registry emission factors
 - E-Grid emission factors
- (5) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD).
- (6) Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity.
 - Fossil: Fossil Fuel Generation Only
 - Total: Total System Generation (Scope 1)
 - Other: Other (please specify in comment section)

Total CO2e is calculated using the following global warming potentials from the IPCC Fourth Assessment Report:

CO2 = 1
 CH4 = 25
 N2O = 298
 SF6 = 22,800