



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: 12/1/2021 -- Revised data provided 03/30/2022 (identified in comments column)

Portfolio	Baseline	Prior Reported Years			Current Year	Comments, Links, Additional Information, and Notes
	2005	2017	2018	2019	2020	
Owned Nameplate Generation Capacity at end of year (MW)						
Coal	233.4	233.4	233.4	233.4	233.4	
Natural Gas	552.3	555.1	555.1	555.1	555.1	
Nuclear	-	-	-	-	-	
Petroleum	-	-	-	-	-	
Total Renewable Energy Resources	953.1	991.1	991.1	991.1	995.0	
Biomass/Biogas	50.7	50.7	50.7	50.7	50.7	
Geothermal	-	-	-	-	-	
Hydroelectric	902.4	940.4	940.4	940.4	944.3	
Solar	-	-	-	-	-	
Wind	-	-	-	-	-	
Other	-	-	-	-	-	
Net Generation for the data year (MWh) Scope 1 + Scope 2						
Coal	1,770,709	1,423,319	1,389,037	1,582,048	1,220,311	
Natural Gas	1,612,702	3,090,056	3,289,220	3,953,871	3,673,474	
Nuclear	-	-	-	-	-	
Petroleum	-	-	-	-	-	
Total Renewable Energy Resources	5,241,584	5,743,040	5,972,503	5,501,882	5,777,585	
Biomass/Biogas	375,016	325,150	371,366	354,683	302,429	
Geothermal	-	-	-	-	-	
Hydroelectric	4,793,878	5,117,024	5,271,813	4,802,156	5,059,199	
Solar	-	486	2,152	42,907	45,815	
Wind	72,690	300,380	327,172	302,136	370,142	
Other	4,727,381	2,168,942	2,219,937	1,876,216	1,849,139	
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	
Natural Gas	1,612,702	1,762,809	1,697,829	2,155,469	1,988,395	
Nuclear	-	-	-	-	-	
Petroleum	-	-	-	-	-	
Total Renewable Energy Resources	3,948,993	4,267,140	4,366,311	3,835,996	3,915,351	
Biomass/Biogas	338,170	290,117	336,936	316,112	264,851	
Geothermal	-	-	-	-	-	
Hydroelectric	3,610,823	3,977,023	4,029,375	3,519,884	3,650,500	
Solar	-	-	-	-	-	
Wind	-	-	-	-	-	
Other	-	-	-	-	-	
Purchased Net Generation for the data year (MWh) Scope 2						
Coal	-	-	-	-	-	
Natural Gas	-	1,327,247	1,591,391	1,798,402	1,685,079	
Nuclear	-	-	-	-	-	
Petroleum	-	-	-	-	-	
Total Renewable Energy Resources	1,292,591	1,475,900	1,606,192	1,665,886	1,862,234	
Biomass/Biogas	36,846	35,033	34,430	38,571	37,578	
Geothermal	-	-	-	-	-	
Hydroelectric	1,183,055	1,140,001	1,242,438	1,282,272	1,408,699	
Solar	-	486	2,152	42,907	45,815	
Wind	72,690	300,380	327,172	302,136	370,142	
Other	4,727,381	2,168,942	2,219,937	1,876,216	1,849,139	



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Portfolio	Baseline	Prior Reported Years			Current Year	Comments, Links, Additional Information, and Notes
	2005	2017	2018	2019	2020	
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	
Incremental Annual Electricity Savings from EE Measures (MWh)	56,571	115,687	73,186	66,933	40,897	
Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 4,500,000	\$ 32,775,000	\$ 24,923,000	\$ 21,678,737	\$ 17,343,392	
Retail Electric Customer Count (at end of year)						
Commercial	37,771	42,990	43,348	43,560	44,748	
Industrial	1,407	1,320	1,297	1,293	1,210	
Residential	294,036	337,932	342,988	348,103	354,182	
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	
Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.321	0.278	0.275	0.310	0.274	
Carbon Dioxide Equivalent (CO2e)						
Total Owned Generation CO2e Emissions (MT)	2,371,430	2,093,789	2,072,194	2,371,367	1,968,205	
Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.323	0.281	0.278	0.313	0.276	
Purchased Power (4) Scope 2						
Carbon Dioxide (CO2)						
Total Purchased Generation CO2 Emissions (MT)	1,934,677	1,151,115	1,262,386	1,226,610	1,179,446	
Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.321	0.232	0.233	0.230	0.219	
Carbon Dioxide Equivalent (CO2e)						
Total Purchased Generation CO2e Emissions (MT)	1,934,684	1,155,543	1,267,028	1,231,045	1,183,787	
Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.321	0.232	0.234	0.231	0.220	
Owned Generation + Purchased Power Scope 1 + Scope 2						
Carbon Dioxide (CO2)						
Total Owned + Purchased Generation CO2 Emissions (MT)	4,288,468	3,221,935	3,311,767	3,572,927	3,129,197	
Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.321	0.259	0.257	0.277	0.250	
Carbon Dioxide Equivalent (CO2e)						
Total Owned + Purchased Generation CO2e Emissions (MT)	4,306,114	3,249,332	3,339,222	3,602,413	3,151,992	
Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.322	0.261	0.259	0.279	0.252	
Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)						
Total CO2e emissions of SF6 (MT)	N/A	3,083	9,968	7,684	666	Revised data provided 03/30/2022. Previous data was listed in MT of SF6, not converted into CO2e as specified by template.
Leak rate of CO2e emissions of SF6 (MT/Net MWh)	N/A	0.000248	0.000774	0.000595	0.000053	
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	
Total NOx Emissions Intensity (MT/Net MWh)	0.000539	0.000208	0.000213	0.000222	0.000175	
Sulfur Dioxide (SO2)						
Total SO2 Emissions (MT)	776	636	598	675	245	
Total SO2 Emissions Intensity (MT/Net MWh)	0.000106	0.000085	0.000080	0.000089	0.000034	
Mercury (Hg)						
Total Hg Emissions (kg)	146	118	117	127	101	
Total Hg Emissions Intensity (kg/Net MWh)	0.000020	0.000016	0.000016	0.000017	0.000014	

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	Comments, Links, Additional Information, and Notes
	2005	2017	2018	2019	2020	
Human Resources						
Total Number of Employees	1,406	1,738	1,763	1,791	1,798	
Percentage of Women in Total Workforce	29.7%	28.5%	28.5%	28.9%	29.7%	
Percentage of Minorities in Total Workforce	6.2%	7.9%	8.2%	7.8%	8.1%	
Total Number on Board of Directors/Trustees	11	11	10	11	11	
Percentage of Women on Board of Directors/Trustees	18.2%	36.4%	40.0%	36.4%	36.4%	
Percentage of Minorities on Board of Directors/Trustees	9.1%	9.1%	10.0%	9.1%	9.1%	
Employee Safety Metrics						
Recordable Incident Rate	6.20	3.96	4.80	3.15	3.21	4.40 including work related COVID-19 cases for 2020
Lost-time Case Rate	0.32	1.52	1.62	1.19	1.13	2.32 including work related COVID-19 cases for 2020
Days Away, Restricted, and Transfer (DART) Rate	0.32	2.38	2.16	1.90	1.55	2.73 including work related COVID-19 cases for 2020
Work-related Fatalities	0.00	0.00	0.00	0.00	0.00	0.00 including work related COVID-19 cases for 2020
Fresh Water Resources used in Thermal Power Generation Activities						
Water Withdrawals - Consumptive (Millions of Gallons)	7,094	5,884	5,854	6,176	4,937	
Water Withdrawals - Non-Consumptive (Millions of Gallons)	12,050,796	13,130,997	13,323,152	11,614,562	12,098,296	
Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	0.00097	0.00079	0.00079	0.00082	0.00069	
Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	1.64350	1.76178	1.78758	1.53358	1.69823	
Waste Products						
Amount of Hazardous Waste Manifested for Disposal	6,100	22,651	34,925	32,276	13,180	
Percent of Coal Combustion Products Beneficially Used	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 - 639 lb/MWh; CO2e - 643.4 lb/MWh, emission factor from eGRID 2018 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