



ESG/Sustainability Template – Section 2: Quantitative & Qualitative Information

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Parent Company: *NorthWestern Corporation*
Operating Company(s): *NorthWestern Energy*
Business Type(s): *Vertically Integrated Electric and Gas Utility*
State(s) of Operation: *MT, SD and NE (natural gas only)*
State(s) with RPS Programs: *MT- required, SD - voluntary*
Regulatory Environment: *Regulated*
Report Date: *7/28/2024*

NorthWestern Energy Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline	2019	2020	2021	2022	2023
		2008	2019	2020	2021	2022	2023
		<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)						
1.1	Coal	432	432	432	432	432	432
1.2	Natural Gas	72	223	230	230	288	288
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes SD mobile units)	42	41	41	25	17	17
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric		448	448	453	459	464
1.5.4	Solar						
1.5.5	Wind		131	131	131	131	131
1.6	Other						
2	Net Generation for the data year (MWh, Owned & Purchased)						
2.1	Coal	3,425,652	2,280,690	1,657,451	2,180,623	2,350,684	2,298,766
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,931	459,912	458,452	459,091	490,645
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	301,490	272,140	322,065	292,031	306,152
2.2	Natural Gas	63,848	432,336	262,738	438,373	649,689	797,011
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	1,670	0	0	0	0	0
2.5	Total Renewable Energy Resources	0	0	0	0	0	0
2.5.1	Biomass/Biogas	0	0	0	0	0	0
2.5.2	Geothermal	0	0	0	0	0	0
2.5.3	Hydroelectric	43,901	2,882,575	2,651,407	2,179,958	2,301,018	2,582,690
2.5.4	Solar	0	29,528	32,858	33,694	34,463	262,692
2.5.5	Wind	577,424	1,750,900	2,243,749	2,089,876	2,306,166	1,921,124
2.6	Market Purchases	4,220,281	469,143	689,919	759,428	366,023	2,410



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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
2.i	Owned Net Generation for the data year (MWh)						
2.1.i	Coal	3,425,652	2,280,690	1,657,451	2,180,623	2,350,684	2,298,766
2.2.i	Natural Gas	4,859	275,895	205,687	318,572	508,758	685,656
2.3.i	Nuclear						
2.4.i	Fuel Oil (ULSD)	1,670	0	0	0	0	0
2.5.i	Total Renewable Energy Resources						
2.5.1.i	Biomass/Biogas						
2.5.2.i	Geothermal						
2.5.3.i	Hydroelectric	0	2,753,679	2,538,806	2,087,557	2,192,758	2,482,954
2.5.4.i	Solar						
2.5.5.i	Wind	0	438,971	496,577	434,976	493,060	420,508
2.6.i	Other						
2.ii	Purchased Net Generation for the data year (MWh)						
2.1.ii	Coal	0	0	0	0	0	0
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,931	459,912	458,452	459,091	490,645
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	301,490	272,140	322,065	292,031	306,152
2.2.ii	Natural Gas	58,989	156,441	57,051	119,801	140,931	111,355
2.3.ii	Nuclear						
2.4.ii	Fuel Oil (ULSD)						
2.5.ii	Total Renewable Energy Resources						
2.5.1.ii	Biomass/Biogas						
2.5.2.ii	Geothermal						
2.5.3.ii	Hydroelectric	43,901	128,896	112,601	92,401	108,261	99,736
2.5.4.ii	Solar		29,528	32,858	33,694	34,463	262,692
2.5.5.ii	Wind	577,424	1,311,929	1,747,172	1,654,900	1,813,106	1,500,616
2.6.ii	Market Purchases	4,220,281	469,143	689,919	759,428	366,023	2,410



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		<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters						
3.1	Total Annual Capital Expenditures (nominal dollars)	\$ 122,285,000	\$ 325,108,000	\$ 403,274,000	\$ 452,410,000	\$ 566,207,000	\$ 557,743,000
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	39,950	74,796	67,606	67,939	74,377	55,590
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 6,988,961	\$ 12,243,992	\$ 9,689,238	\$ 9,964,787	\$ 13,633,474	\$ 4,858,797
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	0.0%	14.2%	14.5%	27.5%	44.0%	60.6%
4	Retail Electric Customer Count (at end of year)						
4.1	Commercial	71,453	82,212	83,611	85,125	86,861	88,204
4.2	Industrial / Other	73	78	77	76	78	79
4.3	Residential	316,490	355,979	360,133	365,563	370,922	376,796

Emissions							
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)						
5.1	Owned Generation (1) (2) (3)						
5.1.1	Carbon Dioxide (CO2)						
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	3,715,475	2,645,269	2,144,428	2,505,537	2,731,064	2,842,371
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.083	0.460	0.438	0.499	0.493	0.483
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	3,734,024	2,664,493	2,160,366	2,524,157	2,745,245	2,865,706
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.088	0.463	0.441	0.503	0.495	0.487
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,285,615	1,336,597	1,353,905	1,089,973	1,136,050
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.450	0.396	0.393	0.339	0.410
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,291,878	1,372,404	1,359,774	1,094,598	1,144,860
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.452	0.407	0.395	0.341	0.413



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5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO ₂)						
5.3.1.1	Total Owned + Purchased Generation CO ₂ Emissions (MT)	6,115,465	3,930,884	3,481,025	3,859,443	3,821,037	3,978,420
5.3.1.2	Total Owned + Purchased Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.677	0.457	0.421	0.456	0.436	0.459
5.3.2	Carbon Dioxide Equivalent (CO ₂ e)						
5.3.2.1	Total Owned + Purchased Generation CO ₂ e Emissions (MT)	6,147,748	3,956,371	3,532,769	3,883,931	3,839,843	4,010,566
5.3.2.2	Total Owned + Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.681	0.460	0.427	0.459	0.438	0.463
5.4	Non-Generation CO₂e Emissions						
5.4.1	Fugitive CO ₂ e emissions of sulfur hexafluoride (MT) (5)		6,481	3,455	1,237	777	2,133
5.4.2	Fugitive CO ₂ e emissions from natural gas distribution (MT) (6)		32,520	32,365	32,716	33,261	33,616
6	Nitrogen Oxide (NO_x), Sulfur Dioxide (SO₂), Mercury (Hg)						
6.1	Generation basis for calculation (7)	Total					
6.2	Nitrogen Oxide (NO_x)						
6.2.1	Total NO _x Emissions (MT)	8,165	3,214	2,936	3,112	3,266	3,298
6.2.2	Total NO _x Emissions Intensity (MT/Net MWh)	0.00090	0.00037	0.00035	0.00037	0.00037	0.00038
6.3	Sulfur Dioxide (SO₂)						
6.3.1	Total SO ₂ Emissions (MT)	9,467	4,644	4,481	4,639	4,551	5,052
6.3.2	Total SO ₂ Emissions Intensity (MT/Net MWh)	0.00105	0.00054	0.00054	0.00055	0.00052	0.00058
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	72.98	13.99	13.59	14.45	12.76	9.87
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	8.08E-06	1.63E-06	1.64E-06	1.71E-06	1.46E-06	1.14E-06



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Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the Emissions section notes

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 = *(insert emissions factor and source)*

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 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) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart W).
- (7) Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity.
 - Fossil: Fossil Fuel Generation Only
 - Total: Total System Generation
 - 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



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Resources							
7	Human Resources						
7.1	Total Number of Employees	1,385	1,562	1,530	1,483	1,530	1,573
7.2	Total Number on Board of Directors/Trustees	7	10	10	8	9	10
7.3	Total Women on Board of Directors/Trustees	1	4	4	3	3	4
7.4	Total Minorities on Board of Directors/Trustees	1	2	2	1	1	2
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate	3.70	1.87	1.36	1.77	1.57	1.34
7.5.2	Lost-time Case Rate	1.23	0.65	0.39	0.66	0.59	0.45
7.5.3	Days Away, Restricted, and Transfer (DART) Rate	0.00	0.84	0.65	0.91	1.11	0.76
7.5.4	Work-related Fatalities	0.00	0.00	0.00	0.00	0.00	0.00
8	Fresh Water Resources						
8.1	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)		5.18E-07	4.66E-07	4.64E-07	5.55E-07	5.50E-07
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)		7.86E-09	8.76E-09	9.47E-09	8.89E-09	7.78E-09
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)			17.9	1.3	17.8	7.5
9.2	Percent of Coal Combustion Products Beneficially Used		8.7%	9.6%	9.9%	8.0%	8.5%



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Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)						
1.1	Coal	222	222	222	222	222	222
1.2	Natural Gas		150	150	150	150	150
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD))						
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric		448	448	453	459	464
1.5.4	Solar						
1.5.5	Wind		51	51	51	51	51
1.6	Other						
2	Net Generation for the data year (MWh, Owned & Purchased)						
2.1	Coal	1,824,416	1,429,074	975,445	1,455,321	1,610,490	1,585,388
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,931	459,912	458,452	459,091	490,645
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	301,490	272,140	322,065	292,031	306,152
2.2	Natural Gas	58,989	380,480	234,434	383,474	549,153	663,194
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	0	0	0	0	0	0
2.5	Total Renewable Energy Resources	0	0	0	0	0	0
2.5.1	Biomass/Biogas	0	0	0	0	0	0
2.5.2	Geothermal	0	0	0	0	0	0
2.5.3	Hydroelectric	43,901	2,882,575	2,651,407	2,179,958	2,301,018	2,582,690
2.5.4	Solar	0	29,528	32,858	33,694	34,463	262,692
2.5.5	Wind	577,424	1,159,074	1,620,707	1,481,924	1,627,804	1,358,603
2.6	Net Market Purchases/(Sales)	4,220,281	160,930	279,300	402,476	107,317	-308,518
2.7	Carbon Free MWh Percentage - Based on Owned + Long Term Contracts	19.4%	61.3%	68.9%	58.5%	57.7%	58.0%



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3	Owned Net Generation for the data year (MWh)						
3.1	Coal	1,824,416	1,429,074	975,445	1,455,321	1,610,490	1,585,388
3.2	Natural Gas		224,039	177,383	263,673	408,222	551,839
3.3	Nuclear						
3.4	Fuel Oil (ULSD)						
3.5	Total Renewable Energy Resources						
3.5.1	Biomass/Biogas						
3.5.2	Geothermal						
3.5.3	Hydroelectric		2,753,679	2,538,806	2,087,557	2,192,758	2,482,954
3.5.4	Solar						
3.5.5	Wind		155,093	186,552	151,975	160,636	145,774
3.6	Other						
4	Purchased Net Generation for the data year (MWh)						
4.1	Coal						
4.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,931	459,912	458,452	459,091	490,645
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4.5.5	Wind	577,424	1,003,981	1,434,155	1,329,949	1,467,168	1,212,829
4.6	Net Market Purchases/Sales	4,220,281	160,930	279,300	402,476	107,317	-308,518



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		2008 <i>Actual</i>	2019 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <i>Actual</i>	2023 <i>Actual</i>
Emissions							
7	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)						
7.1	Owned Generation (1) (2) (3)						
7.1.1	Carbon Dioxide (CO2)						
7.1.1.1	Total Owned Generation CO2 Emissions (MT)	1,952,125	1,706,121	1,364,633	1,665,044	1,848,662	1,959,272
7.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.07	0.374	0.352	0.421	0.423	0.411
7.1.2	Carbon Dioxide Equivalent (CO2e)						
7.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,967,352	1,718,413	1,374,629	1,677,342	1,861,995	1,975,140
7.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.08	0.377	0.354	0.424	0.426	0.414
7.2	Purchased Power (4)						
7.2.1	Carbon Dioxide (CO2)						
7.2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	754,593	850,367	870,129	802,695	708,210	828,007
7.2.1.2	Petroleum Coke CO2 Emissions Intensity (MT/Net MWh)	1.86	1.85	1.89	1.75	1.54	1.69
7.2.1.3	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	457,555	376,950	370,283	487,752	396,071	471,183
7.2.1.4	Waste Coal CO2 Emissions Intensity (MT/Net MWh)	1.56	1.25	1.36	1.51	1.36	1.54
7.2.1.5	Purchased Natural Gas Generation CO2 Emissions (MT)	30,674	76,842	28,315	59,415	69,192	55,552
7.2.1.6	On System Market Purchases/(Sales) Net CO2 Emissions (MT)	1,157,168	(191,144)	(133,334)	(156,585)	(199,917)	(358,610)
7.2.1.7	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,113,015	1,135,393	1,193,277	973,556	996,132
7.2.1.8	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.497	0.429	0.433	0.373	0.458
7.2.2	Carbon Dioxide Equivalent (CO2e)						
7.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,117,429	1,139,993	1,198,075	977,404	1,004,010
7.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.499	0.431	0.434	0.375	0.462



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State(s) with RPS Programs: *Montana - required*
Regulatory Environment: *Regulated*
Report Date: *7/28/2024*

NWE Montana only Statistics

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7.3	Owned Generation + Purchased Power						
7.3.1	Carbon Dioxide (CO2)						
7.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	4,352,115	2,819,136	2,500,026	2,858,321	2,822,218	2,955,404
7.3.1.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	28%	44%	50%	45%	39%	44%
7.3.1.3	Total Owned + Purchased Gen CO2 Emissions Intensity (MT/Net MWh)	0.586	0.414	0.383	0.426	0.404	0.426
7.3.1.4	Total Owned + Purchased Gen CO2 Emissions Intensity (lb/Net MWh)	1,292	914	845	938	891	939
7.3.2	Carbon Dioxide Equivalent (CO2e)						
7.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	4,381,076	2,835,842	2,514,622	2,875,417	2,839,399	2,979,150
7.3.2.2	Total Owned + Purchased Gen CO2e Emissions Intensity (MT/Net MWh)	0.590	0.417	0.385	0.428	0.41	0.4292
7.3.2.3	Total Owned + Purchased Gen CO2e Emissions Intensity (lb/Net MWh)	1,301	919	849	944	897	946
7.3.2	Owned + Long Term Contracts (without Mkt Purch/Sales)						
7.3.2.1	Owned + Long Term Contracts CO2 Emissions (MT)	3,194,947	3,010,280	2,633,360	3,014,906	3,022,135	3,314,014
7.3.2.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	38%	41%	47%	43%	37%	39%
7.3.2.3	Owned + Long Term Contracts CO2 Emissions Intensity (MT/Net MWh)	0.997	0.453	0.422	0.477	0.440	0.457
7.3.2.4	Owned + Long Term Contracts CO2 Emissions Intensity (lb/Net MWh)	2,199	999	929	1,053	969	1,008
7.4	Non-Generation CO2e Emissions						
7.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		5,905	3,106	1,005	208	1,219
7.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		25,356.3	25,209.7	25,524.4	26,050	26,288
8	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)						
8.1	Generation basis for calculation (7)	Total					
8.2	Nitrogen Oxide (NOx)						
8.2.1	Total NOx Emissions (MT)	3,229	2,289	1,938	2,170	2,378	2,271
8.2.2	Total NOx Emissions Intensity (MT/Net MWh)	4.35E-04	3.36E-04	2.97E-04	3.23E-04	3.41E-04	3.27E-04
8.3	Sulfur Dioxide (SO2)						
8.3.1	Total SO2 Emissions (MT)	3,744	3,151	2,805	3,001	3,066	3,328
8.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	5.04E-04	4.63E-04	4.30E-04	4.47E-04	4.39E-04	4.80E-04
8.4	Mercury (Hg)						
8.4.1	Total Hg Emissions (kg)	14.98	6.19	5.09	5.68	5.99	6.42
8.4.2	Total Hg Emissions Intensity (kg/Net MWh)	2.02E-06	9.10E-07	7.80E-07	8.45E-07	8.58E-07	9.24E-07



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Regulatory Environment: *Regulated*
Report Date: *7/28/2024*

NWE Montana only Statistics

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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>

Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the Emissions section notes

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 = *(insert emissions factor and source)*

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 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) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart W).
- (7) Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity.
 - Fossil: Fossil Fuel Generation Only
 - Total: Total System Generation
 - 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



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Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)						
1.1	Coal	209.8	209.8	209.8	209.8	209.8	209.8
1.2	Natural Gas	72.2	73.0	80.0	80.0	138.0	138.0
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes mobile units)	41.8	41.4	41.4	25.0	17.0	17.0
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric						
1.5.4	Solar						
1.5.5	Wind		80	80	80	80	80
1.6	Other						
2	Net Generation for the data year (MWh, Owned & Purchased)						
2.1	Coal	1,601,236	851,616	682,006	725,302	740,194	713,378
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility						
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility						
2.2	Natural Gas	4,859	51,856	30,344	50,301	100,536	133,817
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	1,670	0	0	4,599	0	0
2.5	Total Renewable Energy Resources						
2.5.1	Biomass/Biogas						
2.5.2	Geothermal						
2.5.3	Hydroelectric	0	0	0	0	0	0
2.5.4	Solar						
2.5.5	Wind	0	591,826	623,042	607,771	678,362	562,521
2.6	Market Purchases	0	308,213	410,619	356,952	258,706	310,928



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3	Owned Net Generation for the data year (MWh)						
3.1	Coal	1,601,236	851,616	682,006	725,302	740,194	713,378
3.2	Natural Gas	4,859	51,856	28,304	54,899	100,536	133,817
3.3	Nuclear						
3.4	Fuel Oil (ULSD)	1,670	0	0	0	0	0
3.5	Total Renewable Energy Resources						
3.5.1	Biomass/Biogas						
3.5.2	Geothermal						
3.5.3	Hydroelectric						
3.5.4	Solar						
3.5.5	Wind		283,878	310,025	283,001	332,424	274,734
3.6	Other						
4	Purchased Net Generation for the data year (MWh)						
4.1	Coal						
4.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility						
4.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility						
4.2	Natural Gas						
4.3	Nuclear						
4.4	Fuel Oil (ULSD)						
4.5	Total Renewable Energy Resources						
4.5.1	Biomass/Biogas						
4.5.2	Geothermal						
4.5.3	Hydroelectric						
4.5.4	Solar						
4.5.5	Wind		307,948	313,017	324,951	345,938	287,787
4.6	Market Purchases		308,213	410,619	356,952	258,706	310,928



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Emissions							
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)						
5.1	Owned Generation (1) (2) (3)						
5.1.1	Carbon Dioxide (CO2)						
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	1,763,350	939,148	779,795	840,493	882,401	883,099
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.791	0.764	0.791	0.752	0.787
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,766,672	946,080	785,737	846,815	883,250	890,566
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.797	0.770	0.796	0.753	0.794
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)		172,600	201,204	160,629	116,418	139,918
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.280	0.278	0.236	0.193	0.234
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)		174,449	232,411	161,699	117,194	140,850
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.283	0.321	0.237	0.194	0.235
5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	1,763,350	1,111,748	980,999	1,001,122	998,819	1,023,016
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.616	0.563	0.574	0.562	0.595
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	1,766,672	1,120,529	1,018,147	1,008,514	1,000,444	1,031,416
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.621	0.584	0.578	0.563	0.599
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		576	350	232	569	914
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		7,164	7,155	7,192	7,211	7,328
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)						
6.1	Generation basis for calculation (7)						
		Total					



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6.2	Nitrogen Oxide (NOx)						
6.2.1	Total NOx Emissions (MT)	4,936	925	998	942	888	1,027
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00307	0.00051	0.00057	0.00054	0.00050	0.00060
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	5,723	1,493	1,676	1,638	1,485	1,724
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00356	0.00083	0.00096	0.00094	0.00084	0.00100
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	58.0	7.8	8.5	8.8	6.8	3.5
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	3.61E-05	4.32E-06	4.87E-06	5.03E-06	3.81E-06	2.01E-06

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 Total output-based emissions factor = (insert emissions factor and source)

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- As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart W).
- Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity.
 - Fossil: Fossil Fuel Generation Only
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Total CO2e is calculated using the following global warming potentials from the IPCC Fourth Assessment Report:

CO2 = 1
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