



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

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Parent Company: NorthWestern Energy Group, Inc.
Operating Company(s): NorthWestern Energy - Total Company Roll Up
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: 9/3/2025

NorthWestern Energy Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline	2020	2021	2022	2023	2024
		2008 <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	210	210	268	268	443
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes SD mobile units)	42	41	25	17	17	12
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric		448	453	459	464	467
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	1,657,451	2,180,623	2,350,684	2,298,766	1,980,561
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,912	458,452	459,091	490,645	381,833
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	272,140	322,065	292,031	306,152	287,556
2.2	Natural Gas	63,848	262,738	438,373	649,689	797,011	873,948
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	2,651,407	2,179,958	2,301,018	2,582,690	2,411,753
2.5.4	Solar	0	32,858	33,694	34,463	262,692	364,228
2.5.5	Wind	577,424	2,243,749	2,089,876	2,306,166	1,921,124	2,022,989
2.6	Market Purchases	4,220,281	689,919	759,428	366,023	2,410	300,678



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Operating Company(s): *NorthWestern Energy - Total Company Roll Up*
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: *9/3/2025*

NorthWestern Energy Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline	2020	2021	2022	2023	2024
		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	1,657,451	2,180,623	2,350,684	2,298,766	1,980,561
2.2.i	Natural Gas	4,859	205,687	318,572	508,758	685,656	707,010
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	2,538,806	2,087,557	2,192,758	2,482,954	2,340,616
2.5.4.i	Solar						
2.5.5.i	Wind	0	496,577	434,976	493,060	420,508	446,350
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	459,912	458,452	459,091	490,645	381,833
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	272,140	322,065	292,031	306,152	287,556
2.2.ii	Natural Gas	58,989	57,051	119,801	140,931	111,355	166,938
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	112,601	92,401	108,261	99,736	71,137
2.5.4.ii	Solar		32,858	33,694	34,463	262,692	364,228
2.5.5.ii	Wind	577,424	1,747,172	1,654,900	1,813,106	1,500,616	1,576,639
2.6.ii	Market Purchases	4,220,281	689,919	759,428	366,023	2,410	300,678



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NorthWestern Energy Statistics

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		2008 <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	\$ 403,274,000	\$ 452,410,000	\$ 566,207,000	\$ 557,743,000	\$ 529,014,000
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	39,950	67,606	67,939	74,377	55,590	58,870
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 6,988,961	\$ 9,689,238	\$ 9,964,787	\$ 13,633,474	\$ 11,019,041	\$ 12,256,463
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	0.0%	14.5%	27.5%	44.0%	60.6%	84.3%
4	Retail Electric Customer Count (at end of year)						
4.1	Commercial	71,453	83,611	85,125	86,861	88,204	90,000
4.2	Industrial / Other	73	77	76	78	79	80
4.3	Residential	316,490	360,133	365,563	370,922	376,796	383,261

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	2,144,428	2,505,537	2,731,064	2,842,371	2,550,991
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.083	0.438	0.499	0.493	0.483	0.466
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	3,734,024	2,160,366	2,524,157	2,745,245	2,865,706	2,570,214
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.088	0.441	0.503	0.495	0.487	0.469
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,336,597	1,353,905	1,089,973	1,136,050	1,094,402
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.396	0.393	0.339	0.410	0.348
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,372,404	1,359,774	1,094,598	1,144,860	1,103,383
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.407	0.395	0.341	0.413	0.350



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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
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	3,481,025	3,859,443	3,821,037	3,978,420	3,645,393
5.3.1.2	Total Owned + Purchased Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.677	0.421	0.456	0.436	0.459	0.423
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	3,532,769	3,883,931	3,839,843	4,010,566	3,673,597
5.3.2.2	Total Owned + Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.681	0.427	0.459	0.438	0.463	0.426
5.3.2	Owned + Long Term Contracts (without Mkt Purch/Sales)						
5.3.2.1	Owned + Long Term Contracts CO ₂ Emissions (MT)	4,961,619	3,419,097	3,861,721	3,905,385	4,204,580	3,704,813
5.3.2.2	Percent of CO ₂ emissions from PURPA Petroleum Coke and Waste Coal	24%	36%	33%	28%	31%	29%
5.3.2.3	Owned + Long Term Contracts CO ₂ Emissions Intensity (MT/Net MWh)	1.031	0.451	0.501	0.465	0.486	0.445
5.3.2.4	Owned + Long Term Contracts CO ₂ Emissions Intensity (lb/Net MWh)	2,273	994	1,105	1,026	1,070	981
5.4	Non-Generation CO₂e Emissions						
5.4.1	Fugitive CO ₂ e emissions of sulfur hexafluoride (MT) (5)		3,455	1,237	777	2,133	4,577
5.4.2	Fugitive CO ₂ e emissions from natural gas distribution (MT) (6)		32,365	32,716	33,261	33,616	38,237
6	Nitrogen Oxide (NO_x), Sulfur Dioxide (SO₂), Mercury (Hg)						
6.1	Generation basis for calculation (7)						
6.2	Nitrogen Oxide (NO_x)						
6.2.1	Total NO _x Emissions (MT)	8,165	2,936	3,112	3,266	3,298	3,083
6.2.2	Total NO _x Emissions Intensity (MT/Net MWh)	0.00090	0.00035	0.00037	0.00037	0.00038	0.00036
6.3	Sulfur Dioxide (SO₂)						
6.3.1	Total SO ₂ Emissions (MT)	9,467	4,481	4,639	4,551	5,052	4,610
6.3.2	Total SO ₂ Emissions Intensity (MT/Net MWh)	0.00105	0.00054	0.00055	0.00052	0.00058	0.00053
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	72.98	13.59	14.45	12.76	13.52	12.79
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	8.08E-06	1.64E-06	1.71E-06	1.46E-06	1.56E-06	1.48E-06



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NorthWestern Energy Statistics

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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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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
Resources							
7	Human Resources						
7.1	Total Number of Employees	1,385	1,530	1,483	1,530	1,573	1,585
7.2	Total Number on Board of Directors/Trustees	7	10	8	9	10	9
7.3	Total Women on Board of Directors/Trustees	1	4	3	3	4	4
7.4	Total Minorities on Board of Directors/Trustees	1	2	1	1	2	2
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate	3.70	1.36	1.77	1.57	1.34	1.65
7.5.2	Lost-time Case Rate	1.23	0.39	0.66	0.59	0.45	0.57
7.5.3	Days Away, Restricted, and Transfer (DART) Rate	0.00	0.65	0.91	1.11	0.76	0.89
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)		4.66E-07	4.64E-07	5.55E-07	5.54E-07	5.05E-07
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)		2.31E-09	3.22E-09	3.20E-09	4.11E-09	3.81E-09
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)		17.9	1.3	17.8	7.5	24.4
9.2	Percent of Coal Combustion Products Beneficially Used		9.6%	9.9%	8.0%	8.4%	8.5%



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Operating Company(s): *NorthWestern Energy - Montana*
Business Type(s): *Vertically Integrated Electric and Gas Utility*
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State(s) with RPS Programs: *Montana - required*
Regulatory Environment: *Regulated*
Report Date: *9/3/2025*

NWE Montana only Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline	2020	2021	2022	2023	2024
		2008 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <i>Actual</i>	2023 <i>Actual</i>	2024 <i>Actual</i>
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	325
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	453	459	464	467
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	975,445	1,455,321	1,610,490	1,585,388	1,321,723
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	459,912	458,452	459,091	490,645	381,833
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	272,140	322,065	292,031	306,152	287,556
2.2	Natural Gas	58,989	234,434	383,474	549,153	663,194	735,655
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	2,651,407	2,179,958	2,301,018	2,582,690	2,411,753
2.5.4	Solar	0	32,858	33,694	34,463	262,692	364,228
2.5.5	Wind	577,424	1,620,707	1,481,924	1,627,804	1,358,603	1,405,731
2.6	Net Market Purchases/(Sales)	4,220,281	279,300	402,476	107,317	-308,518	11,516
2.7	Carbon Free MWh Percentage - Based on Owned + Long Term Contracts	19.4%	68.9%	58.5%	57.7%	58.0%	60.5%



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NWE Montana only Statistics

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3	Owned Net Generation for the data year (MWh)						
3.1	Coal	1,824,416	975,445	1,455,321	1,610,490	1,585,388	1,321,723
3.2	Natural Gas		177,383	263,673	408,222	551,839	568,717
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		2,538,806	2,087,557	2,192,758	2,482,954	2,340,616
3.5.4	Solar						
3.5.5	Wind		186,552	151,975	160,636	145,774	143,564
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	459,912	458,452	459,091	490,645	381,833
4.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	272,140	322,065	292,031	306,152	287,556
4.2	Natural Gas	58,989	57,051	119,801	140,931	111,355	166,938
4.3	Nuclear						
4.4	Fuel Oil (ULSD)						
4.5	Total Renewable Energy Resources						
4.5.1	Biomass/Biogas						
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4.5.3	Hydroelectric	43,901	112,601	92,401	108,261	99,736	71,137
4.5.4	Solar		32,858	33,694	34,463	262,692	364,228
4.5.5	Wind	577,424	1,434,155	1,329,949	1,467,168	1,212,829	1,262,167
4.6	Net Market Purchases/Sales	4,220,281	279,300	402,476	107,317	-308,518	11,516



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Regulatory Environment: *Regulated*
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NWE Montana only Statistics

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		2008 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <i>Actual</i>	2023 <i>Actual</i>	2024 <i>Actual</i>
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)	1,952,125	1,364,633	1,665,044	1,848,662	1,959,272	1,693,168
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.07	0.352	0.421	0.423	0.411	0.387
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,967,352	1,374,629	1,677,342	1,861,995	1,975,140	1,706,266
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.08	0.354	0.424	0.426	0.414	0.390
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	754,593	870,129	802,695	708,210	828,007	673,731
5.2.1.2	Petroleum Coke CO2 Emissions Intensity (MT/Net MWh)	1.86	1.89	1.75	1.54	1.69	1.76
5.2.1.3	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	457,555	370,283	487,752	396,071	471,183	391,171
5.2.1.4	Waste Coal CO2 Emissions Intensity (MT/Net MWh)	1.56	1.36	1.51	1.36	1.54	1.36
5.2.1.5	Purchased Natural Gas Generation CO2 Emissions (MT)	30,674	28,315	59,415	69,192	55,552	82,795
5.2.1.6	On System Market Purchases/(Sales) Net CO2 Emissions (MT)	1,157,168	(133,334)	(156,585)	(199,917)	(358,610)	(183,418)
5.2.1.7	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,135,393	1,193,277	973,556	996,132	964,279
5.2.1.8	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.429	0.433	0.373	0.458	0.379
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,139,993	1,198,075	977,404	1,004,010	972,392
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.431	0.434	0.375	0.462	0.382



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5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	4,352,115	2,500,026	2,858,321	2,822,218	2,955,404	2,657,447
5.3.1.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	28%	50%	45%	39%	44%	40%
5.3.1.3	Total Owned + Purchased Gen CO2 Emissions Intensity (MT/Net MWh)	0.586	0.383	0.426	0.404	0.426	0.384
5.3.1.4	Total Owned + Purchased Gen CO2 Emissions Intensity (lb/Net MWh)	1,292	845	938	891	939	847
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	4,381,076	2,514,622	2,875,417	2,839,399	2,979,150	2,678,659
5.3.2.2	Total Owned + Purchased Gen CO2e Emissions Intensity (MT/Net MWh)	0.590	0.385	0.428	0.41	0.4292	0.3871
5.3.2.3	Total Owned + Purchased Gen CO2e Emissions Intensity (lb/Net MWh)	1,301	849	944	897	946	853
5.3.2	Owned + Long Term Contracts (without Mkt Purch/Sales)						
5.3.2.1	Owned + Long Term Contracts CO2 Emissions (MT)	3,194,947	2,633,360	3,014,906	3,022,135	3,314,014	2,840,865
5.3.2.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	38%	47%	43%	37%	39%	37%
5.3.2.3	Owned + Long Term Contracts CO2 Emissions Intensity (MT/Net MWh)	0.997	0.422	0.477	0.440	0.457	0.411
5.3.2.4	Owned + Long Term Contracts CO2 Emissions Intensity (lb/Net MWh)	2,199	929	1,053	969	1,008	907
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		3,106	1,005	208	1,219	2,995
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		25,209.7	25,524.4	26,050	26,288	29,762
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)						
6.1	Generation basis for calculation (7)	Total					
6.2	Nitrogen Oxide (NOx)						
6.2.1	Total NOx Emissions (MT)	3,229	1,938	2,170	2,378	2,271	2,126
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	4.35E-04	2.97E-04	3.23E-04	3.41E-04	3.27E-04	3.07E-04
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	3,744	2,805	3,001	3,066	3,328	2,997
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	5.04E-04	4.30E-04	4.47E-04	4.39E-04	4.80E-04	4.33E-04
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	14.98	5.09	5.68	5.99	6.42	5.35
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	2.02E-06	7.80E-07	8.45E-07	8.58E-07	9.24E-07	7.72E-07



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NWE Montana only Statistics

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		<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

- Generation and emissions are adjusted for equity ownership share to reflect the percentage of output owned by reporting entity.
- CO2 and CO2e emissions intensity should be reported using total system generation (net MWh) based on GHG worksheet.
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 - Climate Registry emission factors
 - E-Grid emission factors
- As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD).
- 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
 - 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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		2008 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <i>Actual</i>	2023 <i>Actual</i>	2024 <i>Actual</i>
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	60.0	60.0	118.0	118.0	118.0
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes mobile units)	41.8	41.4	25.0	17.0	17.0	12.0
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	682,006	725,302	740,194	713,378	658,838
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	30,344	50,301	100,536	133,817	138,293
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	1,670	0	4,599	0	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	623,042	607,771	678,362	562,521	617,258
2.6	Market Purchases	0	410,619	356,952	258,706	310,928	289,162



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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
3	Owned Net Generation for the data year (MWh)						
3.1	Coal	1,601,236	682,006	725,302	740,194	713,378	658,838
3.2	Natural Gas	4,859	28,304	54,899	100,536	133,817	138,293
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		310,025	283,001	332,424	274,734	302,786
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		313,017	324,951	345,938	287,787	314,472
4.6	Market Purchases		410,619	356,952	258,706	310,928	289,162



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		2008 <i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>
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	779,795	840,493	882,401	883,099	857,823
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.764	0.791	0.752	0.787	0.780
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,766,672	785,737	846,815	883,250	890,566	863,948
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.770	0.796	0.753	0.794	0.785
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)		201,204	160,629	116,418	139,918	130,123
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.278	0.236	0.193	0.234	0.216
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)		232,411	161,699	117,194	140,850	130,990
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.321	0.237	0.194	0.235	0.217
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	980,999	1,001,122	998,819	1,023,016	987,946
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.563	0.574	0.562	0.595	0.580
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	1,766,672	1,018,147	1,008,514	1,000,444	1,031,416	994,938
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.584	0.578	0.563	0.599	0.584
5.3.2	Owned + Long Term Contracts (without Mkt Purch/Sales)						
5.3.2.1	Owned + Long Term Contracts CO2 Emissions (MT)	1,766,672	785,737	846,815	883,250	890,566	863,948
5.3.2.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	0%	0%	0%	0%	0%	0%
5.3.2.3	Owned + Long Term Contracts CO2 Emissions Intensity (MT/Net MWh)	1.099	0.588	0.610	0.581	0.632	0.611
5.3.2.4	Owned + Long Term Contracts CO2 Emissions Intensity (lb/Net MWh)	2,423	1,297	1,345	1,282	1,393	1,347
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		350	232	569	914	1,582
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		7,155	7,192	7,211	7,328	8,475
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	998	942	888	1,027	957
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00307	0.00057	0.00054	0.00050	0.00060	0.00056
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	5,723	1,676	1,638	1,485	1,724	1,613
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00356	0.00096	0.00094	0.00084	0.00100	0.00095
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	58.0	8.5	8.8	6.8	7.1	7.4
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	3.61E-05	4.87E-06	5.03E-06	3.81E-06	4.13E-06	4.37E-06

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

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CO2 = 1
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