



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: *6/28/2023*

NorthWestern Energy Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline	2018	2019	2020	2021	2022
		2008 <i>Actual</i>	Actual	Actual	Actual	Actual	Actual
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	223	230	230	288
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes SD mobile units)	42	42	41	41	25	17
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric		448	448	448	453	459
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	2,331,642	2,280,690	1,657,451	2,180,623	2,350,684
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	442,911	459,931	459,912	458,452	459,091
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	327,563	301,490	272,140	322,065	292,031
2.2	Natural Gas	63,848	383,621	432,336	262,738	438,373	649,689
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	1,670	177	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	2,756,851	2,882,575	2,651,407	2,179,958	2,301,018
2.5.4	Solar	0	0	29,528	32,858	33,694	34,463
2.5.5	Wind	577,424	1,504,861	1,750,900	2,243,749	2,089,876	2,306,166
2.6	Market Purchases	4,220,281	722,170	469,143	689,919	759,428	366,023



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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	2,331,642	2,280,690	1,657,451	2,180,623	2,350,684
2.2.i	Natural Gas	4,859	269,667	275,895	205,687	318,572	508,758
2.3.i	Nuclear						
2.4.i	Fuel Oil (ULSD)	1,670	177	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	2,702,919	2,753,679	2,538,806	2,087,557	2,192,758
2.5.4.i	Solar						
2.5.5.i	Wind	0	433,085	438,971	496,577	434,976	493,060
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	442,911	459,931	459,912	458,452	459,091
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	327,563	301,490	272,140	322,065	292,031
2.2.ii	Natural Gas	58,989	113,954	156,441	57,051	119,801	140,931
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	53,932	128,896	112,601	92,401	108,261
2.5.4.ii	Solar			29,528	32,858	33,694	34,463
2.5.5.ii	Wind	577,424	1,071,776	1,311,929	1,747,172	1,654,900	1,813,106
2.6.ii	Market Purchases	4,220,281	722,170	469,143	689,919	759,428	366,023



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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	\$ 311,120,000	\$ 325,108,000	\$ 403,274,000	\$ 452,410,000	\$ 566,207,000
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	39,950	79,107	74,796	67,606	67,939	74,377
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 6,988,961	\$ 12,498,104	\$ 12,243,992	\$ 9,689,238	\$ 9,964,787	\$ 13,633,474
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	0.0%	1.5%	14.2%	14.5%	27.5%	44.0%
4	Retail Electric Customer Count (at end of year)						
4.1	Commercial	71,087	80,288	81,710	82,947	84,400	85,990
4.2	Industrial / Other	5,894	6,261	6,297	6,411	6,410	6,482
4.3	Residential	314,067	349,985	353,837	358,036	362,727	368,037

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	2,683,232	2,645,269	2,144,428	2,505,537	2,731,064
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.083	0.468	0.460	0.438	0.499	0.493
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	3,734,024	2,703,374	2,664,493	2,160,366	2,524,157	2,745,245
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.088	0.471	0.463	0.441	0.503	0.495
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,298,305	1,285,615	1,336,597	1,353,905	1,089,973
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.475	0.450	0.396	0.393	0.339
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,302,271	1,291,878	1,372,404	1,359,774	1,094,598
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.477	0.452	0.407	0.395	0.341



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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)	6,115,465	3,981,537	3,930,884	3,481,025	3,859,443	3,821,037
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.677	0.470	0.457	0.421	0.456	0.436
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	6,147,748	4,005,645	3,956,371	3,532,769	3,883,931	3,839,843
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.681	0.473	0.460	0.427	0.459	0.438
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		17,090	6,481	3,455	1,237	777
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		31,832	32,520	32,365	32,716	33,261
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)	8,165	3,209	3,214	2,936	3,112	3,266
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00090	0.00038	0.00037	0.00035	0.00037	0.00037
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	9,467	4,848	4,644	4,481	4,639	4,551
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00105	0.00057	0.00054	0.00054	0.00055	0.00052
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	72.98	14.08	13.99	13.59	14.45	12.76
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	8.08E-06	1.66E-06	1.63E-06	1.64E-06	1.71E-06	1.46E-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	1,532	1,562	1,530	1,483	1,530
7.2	Total Number on Board of Directors/Trustees	7	8	10	10	8	9
7.3	Total Women on Board of Directors/Trustees	1	3	4	4	3	3
7.4	Total Minorities on Board of Directors/Trustees	1	1	2	2	1	1
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate	3.70	1.73	1.87	1.36	1.64	1.57
7.5.2	Lost-time Case Rate	1.23	0.77	0.58	0.39	0.46	0.57
7.5.3	Days Away, Restricted, and Transfer (DART) Rate	0.00	1.03	0.84	0.65	0.91	0.79
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)		5.35E-07	5.18E-07	4.66E-07	4.64E-07	5.55E-07
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)		1.15E-08	7.86E-09	8.76E-09	9.47E-09	8.89E-09
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)				17.9	1.3	17.8
9.2	Percent of Coal Combustion Products Beneficially Used		9.9%	8.7%	9.6%	9.9%	8.0%



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NWE Montana only Statistics

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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	448	453	459
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	1,315,188	1,429,074	975,445	1,455,321	1,610,490
2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	405,695	442,911	459,931	459,912	458,452	459,091
2.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	327,563	301,490	272,140	322,065	292,031
2.2	Natural Gas	58,989	333,905	380,480	234,434	383,474	549,153
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	2,756,851	2,882,575	2,651,407	2,179,958	2,301,018
2.5.4	Solar	0	0	29,528	32,858	33,694	34,463
2.5.5	Wind	577,424	1,030,109	1,159,074	1,620,707	1,481,924	1,627,804
2.6	Net Market Purchases/(Sales)	4,220,281	506,846	160,930	279,300	402,476	107,317
2.7	Carbon Free MWh Percentage - Based on Owned + Long Term Contracts	19.4%	61.0%	61.3%	68.9%	58.5%	57.7%



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3	Owned Net Generation for the data year (MWh)						
3.1	Coal	1,824,416	1,315,188	1,429,074	975,445	1,455,321	1,610,490
3.2	Natural Gas		219,951	224,039	177,383	263,673	408,222
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		2,702,919	2,753,679	2,538,806	2,087,557	2,192,758
3.5.4	Solar						
3.5.5	Wind		142,059	155,093	186,552	151,975	160,636
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	442,911	459,931	459,912	458,452	459,091
4.1.2	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	293,305	327,563	301,490	272,140	322,065	292,031
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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	43,901	53,932	128,896	112,601	92,401	108,261
4.5.4	Solar			29,528	32,858	33,694	34,463
4.5.5	Wind	577,424	888,050	1,003,981	1,434,155	1,329,949	1,467,168
4.6	Net Market Purchases/Sales	4,220,281	506,846	160,930	279,300	402,476	107,317



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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	1,578,970	1,706,121	1,364,633	1,665,044	1,848,662
7.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.07	0.360	0.374	0.352	0.421	0.423
7.1.2	Carbon Dioxide Equivalent (CO2e)						
7.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,967,352	1,590,562	1,718,413	1,374,629	1,677,342	1,861,995
7.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.08	0.363	0.377	0.354	0.424	0.426
7.2	Purchased Power (4)						
7.2.1	Carbon Dioxide (CO2)						
7.2.1.1	Petroleum Coke - Federally Mandated (PURPA) Qualifying Facility	754,593	821,990	850,367	870,129	802,695	708,210
7.2.1.2	Petroleum Coke CO2 Emissions Intensity (MT/Net MWh)	1.86	1.86	1.85	1.89	1.75	1.54
7.2.1.3	Waste Coal - Federally Mandated (PURPA) Qualifying Facility	457,555	411,214	376,950	370,283	487,752	396,071
7.2.1.4	Waste Coal CO2 Emissions Intensity (MT/Net MWh)	1.56	1.26	1.25	1.36	1.51	1.36
	Purchased Natural Gas Generation CO2 Emissions (MT)	30,674	61,660	76,842	28,315	59,415	69,192
7.2.1.5	On System Market Purchases/(Sales) Net CO2 Emissions (MT)	1,157,168	(117,140)	(191,144)	(133,334)	(156,585)	(199,917)
7.2.1.6	Total Purchased Generation CO2 Emissions (MT)	2,399,990	1,177,724	1,113,015	1,135,393	1,193,277	973,556
7.2.1.7	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.429	0.505	0.497	0.429	0.433	0.373
7.2.2	Carbon Dioxide Equivalent (CO2e)						
7.2.2.1	Total Purchased Generation CO2e Emissions (MT)	2,413,724	1,182,980	1,117,429	1,139,993	1,198,075	977,404
7.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.431	0.507	0.499	0.431	0.434	0.375



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State(s) with RPS Programs: *Montana - required*
Regulatory Environment: *Regulated*
Report Date: *6/28/2023*

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	2,756,694	2,819,136	2,500,026	2,858,321	2,822,218
7.3.1.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	28%	45%	44%	50%	45%	39%
7.3.1.3	Total Owned + Purchased Gen CO2 Emissions Intensity (MT/Net MWh)	0.586	0.411	0.414	0.383	0.426	0.404
7.3.1.4	Total Owned + Purchased Gen CO2 Emissions Intensity (lb/Net MWh)	1,292	905	914	845	938	891
7.3.2	Carbon Dioxide Equivalent (CO2e)						
7.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	4,381,076	2,773,542	2,835,842	2,514,622	2,875,417	2,839,399
7.3.2.2	Total Owned + Purchased Gen CO2e Emissions Intensity (MT/Net MWh)	0.590	0.413	0.417	0.385	0.428	0.407
7.3.2.3	Total Owned + Purchased Gen CO2e Emissions Intensity (lb/Net MWh)	1,301	911	919	849	944	897
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	2,873,834	3,010,280	2,633,360	3,014,906	3,022,135
7.3.2.2	Percent of CO2 emissions from PURPA Petroleum Coke and Waste Coal	38%	43%	41%	47%	43%	37%
7.3.2.3	Owned + Long Term Contracts CO2 Emissions Intensity (MT/Net MWh)	0.997	0.463	0.453	0.422	0.477	0.440
7.3.2.4	Owned + Long Term Contracts CO2 Emissions Intensity (lb/Net MWh)	2,199	1,021	999	929	1,053	969
7.4	Non-Generation CO2e Emissions						
7.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		17,077	5,905	3,106	1,005	208
7.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		24,916.5	25,356.3	25,209.7	25,524.4	26,050
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	2,011	2,289	1,938	2,170	2,378
8.2.2	Total NOx Emissions Intensity (MT/Net MWh)	4.35E-04	3.00E-04	3.36E-04	2.97E-04	3.23E-04	3.41E-04
8.3	Sulfur Dioxide (SO2)						
8.3.1	Total SO2 Emissions (MT)	3,744	2,781	3,151	2,805	3,001	3,066
8.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	5.04E-04	4.14E-04	4.63E-04	4.30E-04	4.47E-04	4.39E-04
8.4	Mercury (Hg)						
8.4.1	Total Hg Emissions (kg)	14.98	6.08	6.19	5.09	5.68	5.99
8.4.2	Total Hg Emissions Intensity (kg/Net MWh)	2.02E-06	9.06E-07	9.10E-07	7.80E-07	8.45E-07	8.58E-07



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State(s) with RPS Programs: *Montana - required*
Regulatory Environment: *Regulated*
Report Date: *6/28/2023*

NWE Montana only Statistics

Ref. No.	Refer to the 'Definitions' tab for more information on each metric	Baseline 2008 <i>Actual</i>	2018 <i>Actual</i>	2019 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <i>Actual</i>
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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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NWE South Dakota only Statistics

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		2008 <i>Actual</i>	2018 <i>Actual</i>	2019 <i>Actual</i>	2020 <i>Actual</i>	2021 <i>Actual</i>	2022 <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	73.0	73.0	80.0	80.0	138.0
1.3	Nuclear						
1.4	Fuel Oil (Ultra-low Sulfur Diesel (ULSD) includes mobile units)	41.8	41.8	41.4	41.4	25.0	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	1,016,454	851,616	682,006	725,302	740,194
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	49,716	51,856	30,344	50,301	100,536
2.3	Nuclear	0	0	0	0	0	0
2.4	Fuel Oil (ULSD)	1,670	177	0	0	4,599	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	474,751	591,826	623,042	607,771	678,362
2.6	Market Purchases	0	215,324	308,213	410,619	356,952	258,706



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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	1,016,454	851,616	682,006	725,302	740,194
3.2	Natural Gas	4,859	49,716	51,856	28,304	54,899	100,536
3.3	Nuclear						
3.4	Fuel Oil (ULSD)	1,670	177	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		291,026	283,878	310,025	283,001	332,424
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		183,726	307,948	313,017	324,951	345,938
4.6	Market Purchases		215,324	308,213	410,619	356,952	258,706



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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	1,104,262	939,148	779,795	840,493	882,401
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.814	0.791	0.764	0.791	0.752
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,766,672	1,112,812	946,080	785,737	846,815	883,250
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.820	0.797	0.770	0.796	0.753
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)		120,581	172,600	201,204	160,629	116,418
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.302	0.280	0.278	0.236	0.193
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)		119,291	174,449	232,411	161,699	117,194
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.299	0.283	0.321	0.237	0.194
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	1,224,843	1,111,748	980,999	1,001,122	998,819
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	1.10	0.697	0.616	0.563	0.574	0.562
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	1,766,672	1,232,103	1,120,529	1,018,147	1,008,514	1,000,444
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	1.10	0.701	0.621	0.584	0.578	0.563
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		13	576	350	232	569
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)		6,916	7,164	7,155	7,192	7,211
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	1,198	925	998	942	888
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00307	0.00068	0.00051	0.00057	0.00054	0.00050
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	5,723	2,067	1,493	1,676	1,638	1,485
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00356	0.00118	0.00083	0.00096	0.00094	0.00084
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	58.0	8.0	7.8	8.5	8.8	6.8
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	3.61E-05	4.55E-06	4.32E-06	4.87E-06	5.03E-06	3.81E-06

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