

# eGRID2014

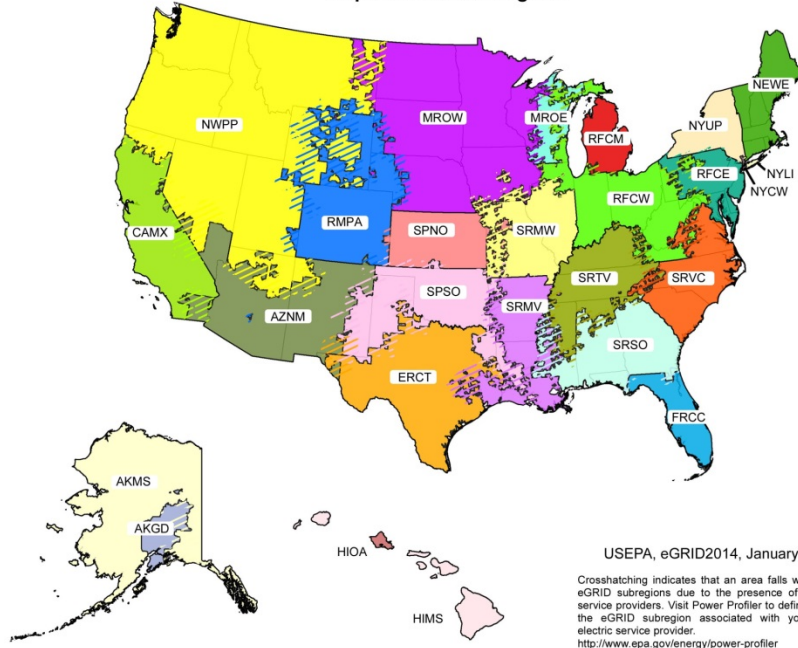
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# 1. Subregion Emissions – Greenhouse Gases (eGRID2014)

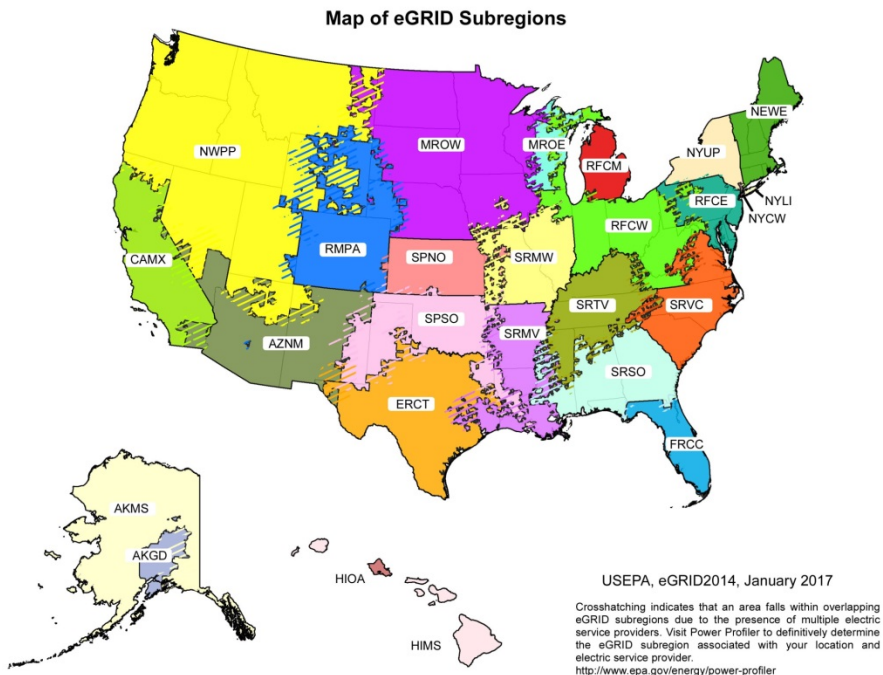
eGRID subregion acronym	eGRID subregion name	Carbon dioxide (CO <sub>2</sub> )		Methane (CH <sub>4</sub> )		Nitrous oxide (N <sub>2</sub> O)		Carbon dioxide equivalent (CO <sub>2</sub> e)	
		Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (lbs)	Total output emission rate (lb/GWh)	Emissions (lbs)	Total output emission rate (lb/GWh)	Emissions (tons)	Total output emission rate (lb/MWh)
AKGD	ASCC Alaska Grid	2,271,327	950.5	235,717	49.3	36,096	7.6	2,279,397	953.9
AKMS	ASCC Miscellaneous	431,829	682.3	46,590	36.8	7,717	6.1	433,514	685.0
AZNM	WECC Southwest	58,722,243	878.5	8,885,668	66.5	1,246,386	9.3	59,008,733	882.8
CAMX	WECC California	58,517,758	619.9	6,937,645	36.7	846,220	4.5	58,708,429	621.9
ERCT	ERCOT All	182,296,859	1,103.2	21,994,474	66.6	3,056,622	9.2	183,000,174	1,107.5
FRCC	FRCC All	119,182,697	1,088.7	19,362,545	88.4	2,656,146	12.1	119,797,706	1,094.3
HIMS	HICC Miscellaneous	1,347,592	946.3	286,274	100.5	45,308	15.9	1,357,621	953.4
HIOA	HICC Oahu	5,948,003	1,617.1	1,289,024	175.2	198,057	26.9	5,992,237	1,629.2
MROE	MRO East	21,264,234	1,267.5	5,059,440	150.8	744,455	22.2	21,432,749	1,277.5
MROW	MRO West	133,211,094	1,248.5	31,672,607	148.4	4,580,399	21.5	134,240,219	1,258.1
NEWE	NPCC New England	32,009,498	578.2	10,854,765	98.0	1,457,118	13.2	32,340,975	584.2
NWPP	WECC Northwest	156,526,173	915.7	33,824,194	98.9	4,918,566	14.4	157,643,705	922.3
NYCW	NPCC NYC/Westchester	13,351,441	699.4	955,968	25.0	116,269	3.0	13,379,501	700.9
NYLI	NPCC Long Island	6,941,550	1,229.1	1,502,503	133.0	194,935	17.3	6,987,541	1,237.3
NYUP	NPCC Upstate NY	15,874,045	377.2	2,719,026	32.3	367,664	4.4	15,959,583	379.2
RFCE	RFC East	115,641,481	852.9	20,491,528	75.6	3,121,875	11.5	116,340,504	858.1
RFCM	RFC Michigan	65,795,773	1,553.9	14,486,516	171.1	2,081,552	24.6	66,270,522	1,565.1
RFCW	RFC West	391,005,851	1,497.1	84,252,343	161.3	12,367,250	23.7	393,807,342	1,507.8
RMPA	WECC Rockies	74,633,546	1,774.0	15,595,812	185.3	2,257,672	26.8	75,147,241	1,786.2
SPNO	SPP North	41,178,975	1,458.6	9,076,955	160.8	1,316,804	23.3	41,478,388	1,469.2
SPSO	SPP South	133,299,588	1,586.3	25,225,795	150.1	3,671,417	21.8	134,133,529	1,596.3
SRMV	SERC Mississippi Valley	107,443,349	1,160.0	16,725,200	90.3	2,400,141	13.0	107,990,986	1,165.9
SRMW	SERC Midwest	152,730,744	1,606.8	35,647,560	187.5	5,183,070	27.3	153,908,419	1,619.2
SRSO	SERC South	153,297,552	1,144.5	28,221,764	105.4	4,189,225	15.6	154,240,455	1,151.6
SRTV	SERC Tennessee Valley	164,450,131	1,368.1	34,172,508	142.1	4,985,828	20.7	165,577,158	1,377.4
SRVC	SERC Virginia/Carolina	124,094,377	862.3	28,696,177	99.7	4,134,405	14.4	125,021,386	868.8
<b>U.S.</b>		<b>2,331,467,711</b>	<b>1,143.0</b>	<b>458,218,597</b>	<b>112.3</b>	<b>66,181,198</b>	<b>16.2</b>	<b>2,346,478,012</b>	<b>1,150.3</b>

Map of eGRID Subregions



## 2. Subregion Emissions – Criteria Pollutants (eGRID2014)

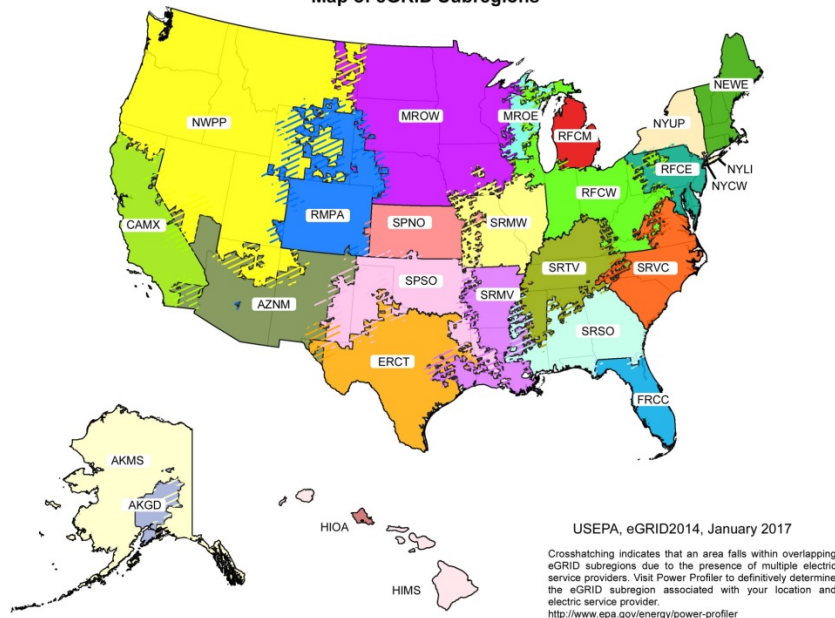
eGRID subregion acronym	eGRID subregion name	Nitrogen oxides (NO <sub>x</sub> )				Sulfur dioxide (SO <sub>2</sub> )	
		Annual		Ozone Season		Emissions (tons)	Total output emission rate (lb/MWh)
		Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (tons)	Total output emission rate (lb/MWh)		
AKGD	ASCC Alaska Grid	4,919	2.1	2,039	2.2	1,596	0.7
AKMS	ASCC Miscellaneous	6,103	9.6	2,101	8.8	614,724	1.0
AZNM	WECC Southwest	44,154	0.7	20,055	0.6	21,800	0.3
CAMX	WECC California	48,701	0.5	21,833	0.5	3,891	0.0
ERCT	ERCOT All	112,966	0.7	51,780	0.7	212,177	1.3
FRCC	FRCC All	69,228	0.6	31,783	0.6	90,415	0.8
HIMS	HICC Miscellaneous	9,845	6.9	4,474	7.3	5,466	3.8
HIOA	HICC Oahu	12,025	3.3	5,242	3.3	35,633	9.7
MROE	MRO East	17,016	1.0	7,193	1.0	42,349	2.5
MROW	MRO West	143,376	1.3	58,554	1.4	217,659	2.0
NEWE	NPCC New England	26,429	0.5	9,229	0.4	13,337	0.2
NWPP	WECC Northwest	206,134	1.2	88,036	1.2	108,765	0.6
NYCW	NPCC NYC/Westchester	6,135	0.3	2,872	0.3	901,075	0.0
NYLI	NPCC Long Island	5,230	0.9	2,013	0.8	2,547	0.5
NYUP	NPCC Upstate NY	17,504	0.4	5,941	0.3	19,079	0.5
RFCE	RFC East	114,682	0.8	41,480	0.7	263,911	1.9
RFCM	RFC Michigan	60,056	1.4	26,609	1.4	148,572	3.5
RFCW	RFC West	351,300	1.3	141,276	1.3	820,643	3.1
RMPA	WECC Rockies	65,616	1.6	27,511	1.6	64,362	1.5
SPNO	SPP North	32,775	1.2	15,367	1.2	40,185	1.4
SPSO	SPP South	101,918	1.2	46,813	1.2	241,092	2.9
SRMV	SERC Mississippi Valley	92,588	1.0	43,127	1.0	129,833	1.4
SRMW	SERC Midwest	108,113	1.1	43,987	1.1	249,718	2.6
SRSO	SERC South	101,960	0.8	41,305	0.7	268,212	2.0
SRTV	SERC Tennessee Valley	122,535	1.0	49,906	1.0	264,542	2.2
SRVC	SERC Virginia/Carolina	86,316	0.6	35,553	0.6	101,773	0.7
<b>U.S.</b>		<b>1,967,626</b>	<b>1.0</b>	<b>826,081</b>	<b>0.9</b>	<b>3,369,074</b>	<b>1.7</b>



### 3. Subregion Output Emission Rates – Greenhouse Gases (eGRID2014)

eGRID subregion acronym	eGRID subregion name	Total output emission rates				Fossil fuel output emission rate	Non-baseload output emission rates			
		CO <sub>2</sub> (lb/MWh)	CH <sub>4</sub> (lb/GWh)	N <sub>2</sub> O (lb/GWh)	CO <sub>2</sub> e (lb/MWh)	CO <sub>2</sub> (lb/MWh)	CO <sub>2</sub> (lb/MWh)	CH <sub>4</sub> (lb/GWh)	N <sub>2</sub> O (lb/GWh)	CO <sub>2</sub> e (lb/MWh)
AKGD	ASCC Alaska Grid	950.5	49.3	7.6	953.9	1,121.3	905.3	42.3	6.9	908.3
AKMS	ASCC Miscellaneous	682.3	36.8	6.1	685.0	3,425.5	1,011.9	48.0	8.3	1,015.5
AZNM	WECC Southwest	878.5	66.5	9.3	882.8	1,470.0	946.2	50.9	6.9	949.4
CAMX	WECC California	619.9	36.7	4.5	621.9	945.3	599.8	24.2	2.9	601.0
ERCT	ERCOT All	1,103.2	66.6	9.2	1,107.5	1,432.5	1,069.2	47.0	6.3	1,072.1
FRCC	FRCC All	1,088.7	88.4	12.1	1,094.3	1,273.5	1,173.3	80.8	11.0	1,178.4
HIMS	HICC Miscellaneous	946.3	100.5	15.9	953.4	1,515.0	1,041.2	117.8	18.4	1,049.4
HIOA	HICC Oahu	1,617.1	175.2	26.9	1,629.2	1,674.5	1,460.5	136.2	22.0	1,470.2
MROE	MRO East	1,267.5	150.8	22.2	1,277.5	2,084.3	1,720.2	194.0	28.4	1,733.1
MROW	MRO West	1,248.5	148.4	21.5	1,258.1	2,221.8	1,108.5	131.0	18.8	1,117.1
NEWE	NPCC New England	578.2	98.0	13.2	584.2	1,024.4	948.7	98.4	13.4	954.6
NWPP	WECC Northwest	915.7	98.9	14.4	922.3	1,882.3	582.4	57.9	8.3	586.2
NYCW	NPCC NYC/Westchester	699.4	25.0	3.0	700.9	1,269.6	1,249.8	24.7	2.8	1,251.2
NYLI	NPCC Long Island	1,229.1	133.0	17.3	1,237.3	1,179.0	1,341.0	43.5	5.7	1,343.6
NYUP	NPCC Upstate NY	377.2	32.3	4.4	379.2	1,146.2	801.8	60.7	8.3	805.6
RFCE	RFC East	852.9	75.6	11.5	858.1	1,520.8	1,393.5	113.4	16.4	1,401.0
RFCM	RFC Michigan	1,553.9	171.1	24.6	1,565.1	2,003.5	1,724.8	176.7	25.4	1,736.4
RFCW	RFC West	1,497.1	161.3	23.7	1,507.8	1,961.1	1,812.7	185.8	27.4	1,825.1
RMPA	WECC Rockies	1,774.0	185.3	26.8	1,786.2	2,064.5	1,334.3	122.9	17.6	1,342.4
SPNO	SPP North	1,458.6	160.8	23.3	1,469.2	2,211.9	1,519.7	162.2	23.5	1,530.3
SPSO	SPP South	1,586.3	150.1	21.8	1,596.3	1,820.2	1,483.0	127.8	18.4	1,491.4
SRMV	SERC Mississippi Valley	1,160.0	90.3	13.0	1,165.9	1,491.0	1,340.7	97.0	13.8	1,347.0
SRMW	SERC Midwest	1,606.8	187.5	27.3	1,619.2	2,114.3	1,846.3	210.8	30.6	1,860.3
SRSO	SERC South	1,144.5	105.4	15.6	1,151.6	1,560.8	1,303.0	117.9	17.4	1,310.8
SRTV	SERC Tennessee Valley	1,368.1	142.1	20.7	1,377.4	2,000.6	1,672.9	161.4	23.4	1,683.5
SRVC	SERC Virginia/Carolina	862.3	99.7	14.4	868.8	1,630.6	1,285.6	132.7	19.0	1,294.2
<b>U.S.</b>		<b>1,143.0</b>	<b>112.3</b>	<b>16.2</b>	<b>1,150.3</b>	<b>1,693.1</b>	<b>1,253.2</b>	<b>218.4</b>	<b>31.3</b>	<b>1,267.1</b>

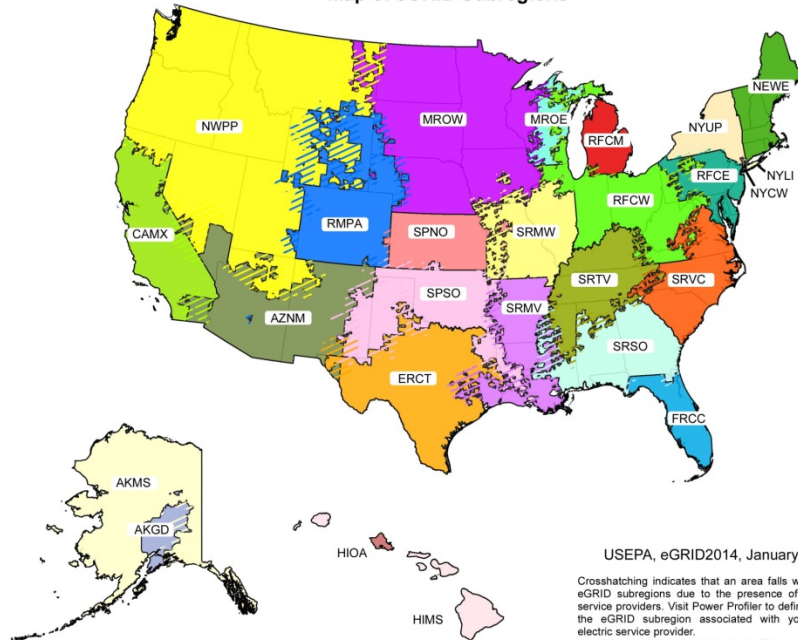
Map of eGRID Subregions



## 4. Subregion Output Emission Rates – Criteria Pollutants (eGRID2014)

eGRID subregion acronym	eGRID subregion name	Total output emission rates			Fossil fuel output emission rate			Non-baseload output emission rates		
		Annual NO <sub>x</sub> (lb/MWh)	Ozone Season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)	Annual NO <sub>x</sub> (lb/MWh)	Ozone Season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)	Annual NO <sub>x</sub> (lb/MWh)	Ozone Season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)
AKGD	ASCC Alaska Grid	2.1	2.2	0.7	2.4	2.650	0.8	2.1	2.3	0.6
AKMS	ASCC Miscellaneous	9.6	8.8	1.0	48.4	45.190	4.9	14.9	13.7	1.5
AZNM	WECC Southwest	0.7	0.6	0.3	1.1	0.948	0.5	0.5	0.5	0.3
CAMX	WECC California	0.5	0.5	0.0	0.6	0.661	0.0	0.3	0.3	0.0
ERCT	ERCOT All	0.7	0.7	1.3	0.8	0.823	1.7	0.6	0.6	1.2
FRCC	FRCC All	0.6	0.6	0.8	0.6	0.640	1.0	0.6	0.6	0.8
HIMS	HICC Miscellaneous	6.9	7.3	3.8	11.4	12.392	6.1	8.4	8.8	4.0
HIOA	HICC Oahu	3.3	3.3	9.7	3.4	3.400	10.6	3.7	3.7	9.0
MROE	MRO East	1.0	1.0	2.5	1.4	1.457	3.9	1.5	1.5	3.4
MROW	MRO West	1.3	1.4	2.0	2.3	2.288	3.6	1.3	1.4	2.1
NEWE	NPCC New England	0.5	0.4	0.2	0.4	0.254	0.3	0.6	0.4	0.5
NWPP	WECC Northwest	1.2	1.2	0.6	2.2	2.207	1.3	0.7	0.7	0.4
NYCW	NPCC NYC/Westchester	0.3	0.3	0.0	0.5	0.471	0.1	0.6	0.5	0.1
NYLI	NPCC Long Island	0.9	0.8	0.5	0.7	0.569	0.5	1.0	0.8	0.8
NYUP	NPCC Upstate NY	0.4	0.3	0.5	0.7	0.482	1.3	0.7	0.6	1.2
RFCE	RFC East	0.8	0.7	1.9	1.4	1.123	3.5	1.3	1.1	2.6
RFCM	RFC Michigan	1.4	1.4	3.5	1.6	1.689	4.5	1.5	1.6	4.1
RFCW	RFC West	1.3	1.3	3.1	1.7	1.614	4.1	1.6	1.5	5.1
RMPA	WECC Rockies	1.6	1.6	1.5	1.8	1.763	1.8	1.2	1.2	1.0
SPNO	SPP North	1.2	1.2	1.4	1.7	1.775	2.2	1.4	1.5	1.9
SPSO	SPP South	1.2	1.2	2.9	1.4	1.339	3.3	1.2	1.2	2.7
SRMV	SERC Mississippi Valley	1.0	1.0	1.4	1.2	1.286	1.8	1.1	1.1	1.3
SRMW	SERC Midwest	1.1	1.1	2.6	1.5	1.437	3.5	1.2	1.2	3.2
SRSO	SERC South	0.8	0.7	2.0	1.0	0.852	2.6	1.0	0.9	3.5
SRTV	SERC Tennessee Valley	1.0	1.0	2.2	1.5	1.364	3.2	1.2	1.2	2.9
SRVC	SERC Virginia/Carolina	0.6	0.6	0.7	1.0	0.889	1.2	0.8	0.8	1.2
<b>U.S.</b>		<b>1.0</b>	<b>0.9</b>	<b>1.7</b>	<b>1.3</b>	<b>1.2</b>	<b>2.4</b>	<b>1.0</b>	<b>0.9</b>	<b>2.0</b>

Map of eGRID Subregions



## 5. Subregion Resource Mix (eGRID2014)

eGRID subregion acronym	eGRID subregion name	Nameplate Capacity (MW)	Net generation (MWh)	Generation Resource Mix (percent)*										
				Coal	Oil	Gas	Other Fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown /purchased fuel
AKGD	ASCC Alaska Grid	2,227	4,779,334	11.7	7.0	66.1	0.0	0.0	11.5	1.2	2.6	0.0	0.0	0.0
AKMS	ASCC Miscellaneous	956.5	1,265,808	0.0	8.7	10.3	0.0	0.0	78.3	0.5	2.2	0.0	0.0	0.0
AZNM	WECC Southwest	60,849	133,681,798	21.3	0.0	39.1	0.0	23.6	6.4	0.4	1.7	4.6	2.8	0.0
CAMX	WECC California	102,097	188,801,065	0.4	0.0	62.5	0.8	9.0	8.4	3.4	6.5	4.3	4.4	0.3
ERCT	ERCOT All	130,680	330,486,678	27.2	0.1	49.4	0.5	11.9	0.1	0.2	10.5	0.1	0.0	0.1
FRCC	FRCC All	89,441	218,943,919	21.6	0.8	61.7	0.6	12.7	0.0	1.6	0.0	0.1	0.0	0.7
HIMS	HICC Miscellaneous	1,047	2,848,000	1.6	60.8	0.0	0.0	0.0	3.3	3.6	13.8	0.5	8.9	7.4
HIOA	HICC Oahu	2,174	7,356,159	19.9	70.6	0.0	3.5	0.0	0.0	3.1	2.5	0.3	0.0	0.0
MROE	MRO East	12,717	33,553,503	52.9	0.9	7.0	0.1	28.1	3.7	3.4	3.8	0.0	0.0	0.1
MROW	MRO West	67,900	213,402,292	52.5	0.1	3.1	0.2	19.8	5.5	1.3	17.3	0.0	0.0	0.2
NEW	NPCC New England	43,495	110,714,833	4.5	1.9	43.2	1.7	33.3	6.4	6.8	1.8	0.3	0.0	0.1
NWPP	WECC Northwest	96,974	341,855,938	36.3	0.2	11.9	0.2	2.8	39.7	1.1	6.7	0.0	1.0	0.1
NYCW	NPCC NYC/Westchester	14,026	38,179,567	0.0	2.0	55.2	0.5	41.9	0.0	0.5	0.0	0.0	0.0	0.0
NYLI	NPCC Long Island	6,034	11,295,155	0.0	7.2	84.0	4.0	0.0	0.0	4.2	0.0	0.6	0.0	0.0
NYUP	NPCC Upstate NY	30,565	84,173,696	5.5	0.6	25.9	0.3	30.6	30.4	2.1	4.7	0.0	0.0	0.0
RFCE	RFC East	91,549	271,173,457	23.3	0.7	30.7	0.7	40.5	1.2	1.3	1.3	0.2	0.0	0.0
RFCM	RFC Michigan	32,366	84,683,436	59.6	1.2	14.6	1.7	16.1	0.0	2.3	4.5	0.0	0.0	0.0
RFCW	RFC West	163,694	522,365,856	64.5	0.6	10.8	0.7	19.8	0.6	0.6	2.3	0.1	0.0	0.1
RMPA	WECC Rockies	25,704	84,143,672	71.5	0.0	14.3	0.0	0.0	2.6	0.1	11.0	0.3	0.0	0.1
SPNO	SPP North	21,788	56,462,491	60.0	0.1	5.9	0.0	15.2	0.0	0.1	18.7	0.0	0.0	0.0
SPSO	SPP South	67,576	168,060,844	53.4	2.0	31.2	0.2	0.0	0.9	1.2	10.9	0.1	0.0	0.0
SRMV	SERC Mississippi Valley	62,959	185,248,142	29.9	1.1	46.3	1.3	17.2	2.0	1.9	0.0	0.0	0.0	0.2
SRMW	SERC Midwest	48,416	190,107,982	74.0	0.1	1.7	0.1	19.5	0.9	0.1	3.5	0.0	0.0	0.1
SRSO	SERC South	82,498	267,879,506	36.2	0.2	36.4	0.0	21.4	2.6	3.2	0.0	0.0	0.0	0.0
SRTV	SERC Tennessee Valley	78,071	240,412,326	53.0	0.6	14.6	0.1	22.6	7.9	1.2	0.0	0.0	0.0	0.0
SRVC	SERC Virginia/Carolina	98,390	287,815,017	32.1	0.6	19.7	0.3	42.7	1.3	2.9	0.0	0.3	0.0	0.1
<b>U.S.</b>		<b>1,434,193</b>	<b>4,079,690,474</b>	<b>38.7</b>	<b>0.7</b>	<b>27.5</b>	<b>0.5</b>	<b>19.5</b>	<b>6.2</b>	<b>1.6</b>	<b>4.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.1</b>

\*percentages may not sum exactly to 100 due to rounding

## 6. NERC Region Emissions (eGRID2014)

NERC region acronym	NERC region name	Nitrogen oxides (NO <sub>x</sub> )				Sulfur dioxide (SO <sub>2</sub> )		Carbon dioxide (CO <sub>2</sub> )		Methane (CH <sub>4</sub> )		Nitrous oxide (N <sub>2</sub> O)	
		Annual		Ozone Season		Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (lbs)	Total output emission rate (lb/GWh)	Emissions (lbs)	Total output emission rate (lb/GWh)
		Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (tons)	Total output emission rate (lb/MWh)								
ASCC	Alaska Systems Coordinating Council	11,022	3.6	4,140	3.5	2,211	0.7	2,703,156	894.3	282,307	46.7	43,813	7.2
FRCC	Florida Reliability Coordinating Council	69,532	0.6	31,905	0.6	91,839	0.8	119,394,366	1,084.0	19,623,892	89.1	2,700,979	12.3
HICC	Hawaiian Islands Coordinating Council	21,870	4.3	9,716	4.4	41,099	8.1	7,295,595	1,429.9	1,575,298	154.4	243,365	23.9
MRO	Midwest Reliability Organization	165,410	1.5	67,711	1.5	279,380	2.5	160,945,025	1,418.7	38,125,833	168.0	5,532,033	24.4
NPCC	Northeast Power Coordinating Council	55,543	0.5	20,172	0.4	35,864	0.3	68,167,659	557.8	16,031,928	65.6	2,135,952	8.7
RFC	Reliability First Corporation	543,985	1.2	216,254	1.1	1,266,959	2.7	599,164,897	1,266.1	126,234,053	133.4	18,587,349	19.6
SERC	SERC Reliability Corporation	478,789	0.9	200,269	0.8	950,984	1.7	642,904,354	1,179.5	129,382,266	118.7	18,829,137	17.3
SPP	Southwest Power Pool	130,770	1.2	59,481	1.2	233,198	2.1	170,630,198	1,509.5	33,271,031	147.2	4,840,716	21.4
TRE	Texas Regional Entity	135,001	0.7	62,555	0.7	294,248	1.6	221,546,225	1,203.8	30,728,226	83.5	4,330,550	11.8
WECC	Western Electricity Coordinating Council	355,703	1.0	153,879	0.9	173,293	0.5	338,716,235	914.0	62,963,764	85.0	8,937,305	12.1
<b>U.S.</b>		<b>1,967,626</b>	<b>1.0</b>	<b>826,081</b>	<b>0.9</b>	<b>3,369,074</b>	<b>1.7</b>	<b>2,331,467,711</b>	<b>1,143.0</b>	<b>458,218,597</b>	<b>112.3</b>	<b>66,181,198</b>	<b>16.2</b>

## 7. NERC Region Output Emission Rates (eGRID2014)

NERC region acronym	NERC region name	Total output emission rates						Fossil fuel output emission rates				Non-baseload output emission rates					
		NO <sub>x</sub> (lb/MWh)	Ozone season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)	CO <sub>2</sub> (lb/MWh)	CH <sub>4</sub> (lb/GWh)	N <sub>2</sub> O (lb/GWh)	NO <sub>x</sub> (lb/MWh)	Ozone season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)	CO <sub>2</sub> (lb/MWh)	NO <sub>x</sub> (lb/MWh)	Ozone season NO <sub>x</sub> (lb/MWh)	SO <sub>2</sub> (lb/MWh)	CO <sub>2</sub> (lb/MWh)	CH <sub>4</sub> (lb/GWh)	N <sub>2</sub> O (lb/GWh)
ASCC	Alaska Systems Coordinating Council	3.6	3.5	0.7	894.3	46.7	7.2	5.1	5.068	1.0	1,256.0	4.5	4.4	0.8	925.7	86.9	14.3
FRCC	Florida Reliability Coordinating Council	0.6	0.6	0.8	1,084.0	89.1	12.3	0.6	0.639	1.0	1,271.1	0.6	0.6	0.8	1,169.7	162.3	22.2
HICC	Hawaiian Islands Coordinating Council	4.3	4.4	8.1	1,429.9	154.4	23.9	5.0	5.181	9.7	1,641.9	5.4	5.6	7.2	1,308.7	259.1	41.4
MRO	Midwest Reliability Organization	1.5	1.5	2.5	1,418.7	168.0	24.4	2.2	2.130	3.8	2,188.7	1.3	1.4	2.3	1,213.7	283.2	40.9
NPCC	Northeast Power Coordinating Council	0.5	0.4	0.3	557.8	65.6	8.7	0.5	0.378	0.5	1,111.7	0.7	0.5	0.7	976.4	142.4	19.3
RFC	Reliability First Corporation	1.2	1.1	2.7	1,266.1	133.4	19.6	1.6	1.514	4.0	1,880.5	1.5	1.4	4.3	1,703.7	338.0	49.5
SERC	SERC Reliability Corporation	0.9	0.8	1.7	1,179.5	118.7	17.3	1.2	1.139	2.5	1,725.4	1.1	1.0	2.5	1,430.3	266.2	38.5
SPP	Southwest Power Pool	1.2	1.2	2.1	1,509.5	147.2	21.4	1.4	1.370	2.5	1,851.4	1.2	1.2	2.0	1,408.8	245.9	35.5
TRE	Texas Regional Entity	0.7	0.7	1.6	1,203.8	83.5	11.8	0.9	0.874	2.0	1,530.2	0.7	0.7	1.6	1,214.9	146.4	20.4
WECC	Western Electricity Coordinating Council	1.0	0.9	0.5	914.0	85.0	12.1	1.5	1.452	0.8	1,568.7	0.6	0.6	0.3	720.4	105.6	14.7
<b>U.S.</b>		<b>1.0</b>	<b>0.9</b>	<b>1.7</b>	<b>1,143.0</b>	<b>112.3</b>	<b>16.2</b>	<b>1.3</b>	<b>1.2</b>	<b>2.4</b>	<b>1,693.1</b>	<b>1.0</b>	<b>0.9</b>	<b>2.0</b>	<b>1,253.2</b>	<b>218.4</b>	<b>31.3</b>



## 8. NERC Region Resource Mix (eGRID2014)

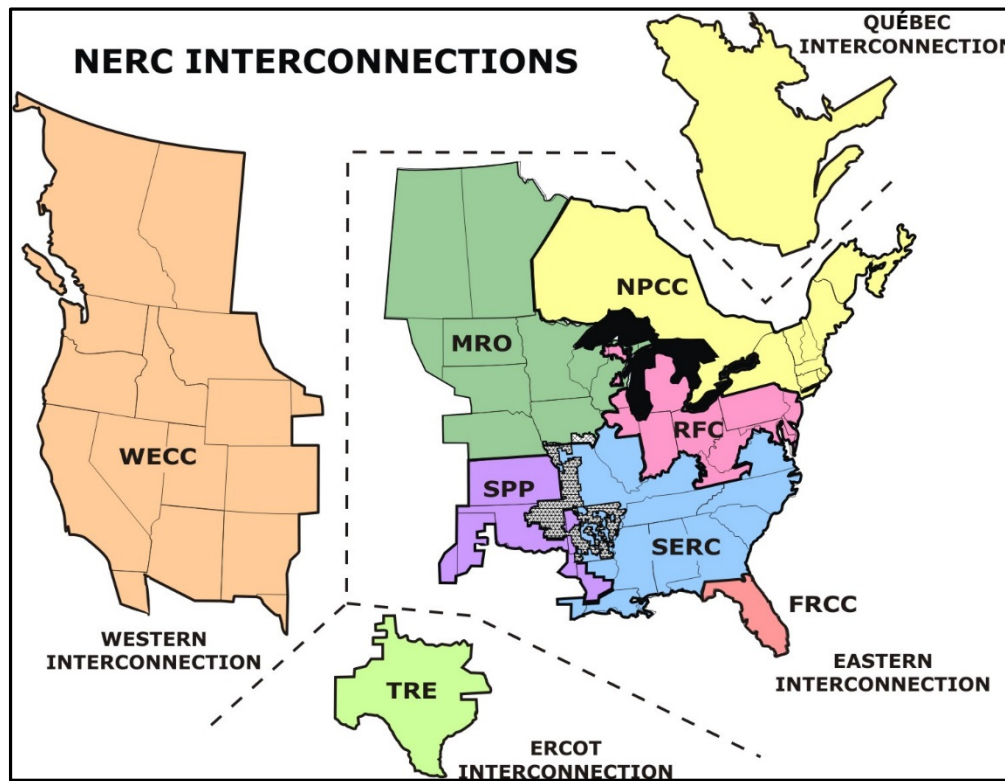
NERC region acronym	NERC region name	Nameplate capacity (MW)	Net generation (MWh)	Generation Resource Mix (percent)*										
				Coal	Oil	Gas	Other fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown/purchased fuel
ASCC	Alaska Systems Coordinating Council	3,184	5,260,396	9.2	7.4	54.4	0.0	0.0	25.5	1.0	2.5	0.0	0.0	0.0
FRCC	Florida Reliability Coordinating Council	92,220	192,450,420	21.6	0.9	61.4	0.6	12.7	0.1	2.0	0.0	0.1	0.0	0.7
HICC	Hawaiian Islands Coordinating Council	3,221	9,734,014	14.8	67.9	0.0	2.5	0.0	0.9	3.3	5.7	0.4	2.5	2.1
MRO	Midwest Reliability Organization	77,401	225,635,722	60.2	0.3	3.9	0.2	11.9	5.5	1.7	16.3	0.0	0.0	0.2
NPCC	Northeast Power Coordinating Council	94,163	230,740,658	3.9	1.7	41.2	1.1	32.3	13.2	4.0	2.4	0.2	0.0	0.0
RFC	Reliability First Corporation	305,391	916,715,449	50.3	0.6	15.7	0.8	28.6	0.7	1.0	2.3	0.1	0.0	0.1
SERC	SERC Reliability Corporation	357,329	1,046,500,237	42.2	0.5	25.4	0.3	26.1	3.0	2.0	0.4	0.1	0.0	0.1
SPP	Southwest Power Pool	87,064	218,217,929	53.5	1.6	26.0	0.2	3.8	1.5	1.1	12.3	0.0	0.0	0.0
TRE	Texas Regional Entity	146,942	335,718,957	33.4	0.1	44.9	0.4	10.7	0.1	0.3	9.9	0.1	0.0	0.1
WECC	Western Electricity Coordinating Council	283,720	701,399,013	27.5	0.1	30.1	0.3	7.9	21.9	1.5	6.4	2.0	2.1	0.1
<b>U.S.</b>		<b>1,450,635</b>	<b>3,882,372,794</b>	<b>38.7</b>	<b>0.7</b>	<b>27.5</b>	<b>0.5</b>	<b>19.5</b>	<b>6.2</b>	<b>1.6</b>	<b>4.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.1</b>

\*percentages may not sum exactly to 100 due to rounding

## 9. Grid Gross Loss (%) (eGRID2014)

Region*	Grid Gross Loss (%)
Alaska	5.63%
Eastern	4.97%
Hawaii	5.18%
Texas (ERCOT)	5.12%
Western	4.79%
<b>U.S.</b>	<b>4.95%</b>

\*One of three interconnect power grids plus AK, HI, and U.S.



### 10. State Emissions and Output Emission Rates (eGRID2014)

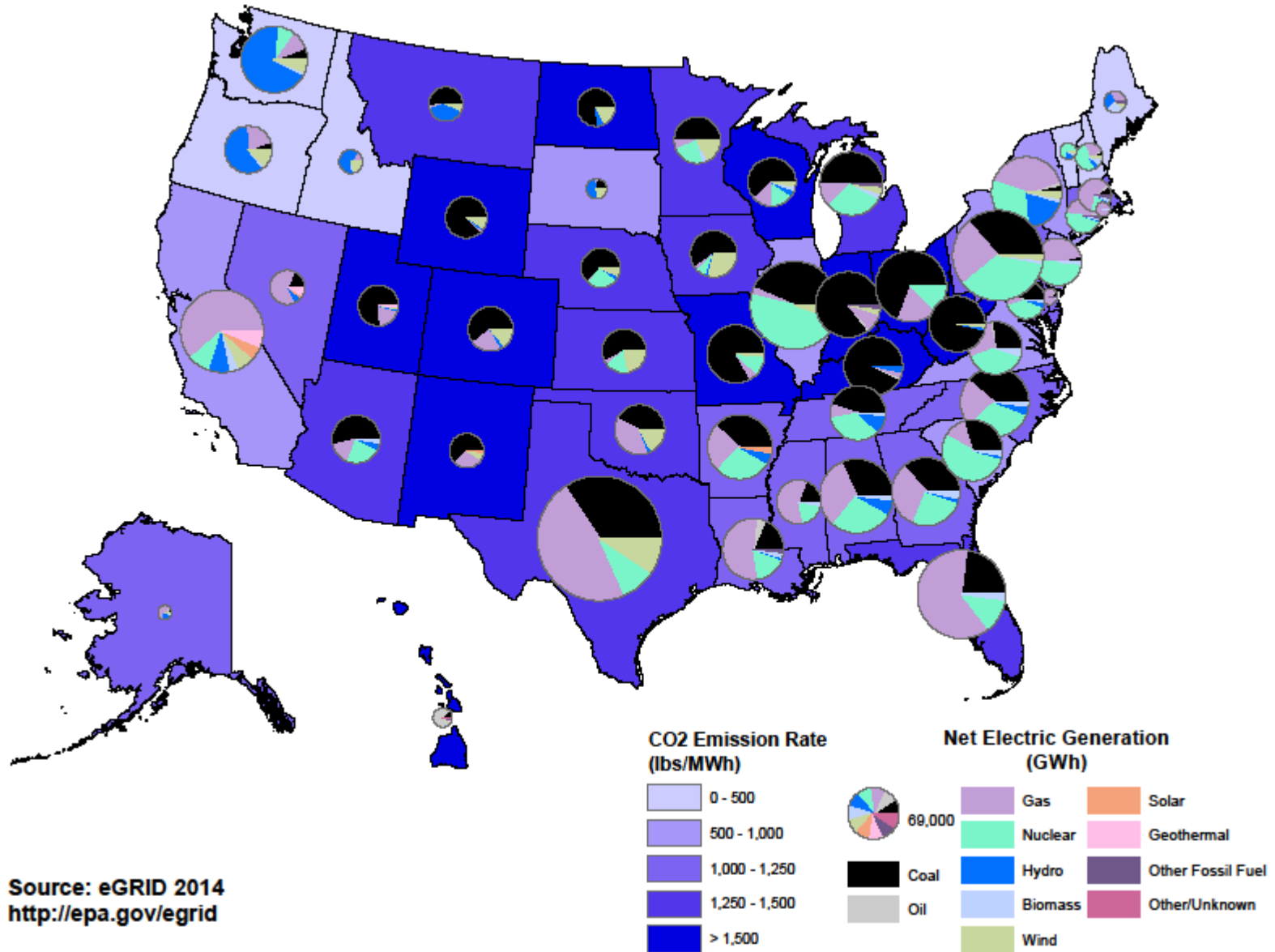
State	Nitrogen oxides (NO <sub>2</sub> )				Sulfur dioxide (SO <sub>2</sub> )		Carbon dioxide (CO <sub>2</sub> )		Methane (CH <sub>4</sub> )	Nitrous oxide (N <sub>2</sub> O)	Carbon dioxide equivalent (CO <sub>2</sub> e)
	Annual		Ozone season		Emissions (tons)	Output emission rate (lb/MMBtu)	Emissions (tons)	Output emission rate (lb/MMBtu)	Emissions (lbs)	Emissions (lbs)	Emissions (tons)
	Emissions (tons)	Output emission rate (lb/MMBtu)	Emissions (tons)	Output emission rate (lb/MMBtu)							
AK	11,022	3.6	4,140	3.5	2,210.5	0.7	2,703,156	894.3	282,307	43,813	2,712,912
AL	51,443	0.7	21,932	0.7	122,948.6	1.6	78,958,932	1,058.1	13,385,393	1,953,142	79,399,460
AR	39,624	1.3	18,633	1.4	78,028.2	2.5	39,871,143	1,294.7	8,525,828	1,254,914	40,155,176
AZ	49,468	0.9	22,155	0.8	22,610.7	0.4	60,441,507	1,111.3	11,309,886	1,625,564	60,812,223
CA	49,075	0.5	22,030	0.5	5,452.3	0.1	59,425,558	602.6	7,368,075	901,967	59,629,389
CO	42,458	1.6	18,515	1.6	27,312.7	1.0	42,647,402	1,584.0	8,511,889	1,227,331	42,927,013
CT	7,077	0.4	2,768	0.4	1,836.4	0.1	9,106,798	541.2	2,251,886	293,107	9,175,874
DC	0	0.0	0	0.0	0.3	0.0	53,297	1,576.6	2,010	201	53,349
DE	2,323	0.6	940	0.5	833.9	0.2	4,006,349	1,054.5	388,277	51,290	4,018,376
FL	76,069	0.7	34,514	0.6	103,250.8	0.9	126,962,669	1,104.2	21,016,304	2,904,214	127,633,493
GA	40,417	0.6	13,705	0.5	76,117.7	1.2	69,270,662	1,101.2	13,402,541	2,011,323	69,723,144
HI	21,870	4.3	9,716	4.4	41,098.9	8.1	7,295,595	1,429.9	1,575,298	243,365	7,349,858
IA	34,397	1.2	14,728	1.3	77,145.5	2.7	38,526,028	1,355.4	8,707,629	1,264,965	38,813,528
ID	17,420	2.3	7,379	2.2	1,201.8	0.2	1,139,832	150.9	193,960	31,698	1,146,782
IL	49,873	0.5	20,009	0.5	156,036.2	1.5	100,820,844	997.6	22,423,756	3,256,961	101,561,122
IN	113,080	2.0	46,802	2.0	294,083.0	5.1	114,091,290	1,983.8	24,432,148	3,548,714	114,897,879
KS	27,764	1.1	12,945	1.2	31,570.7	1.3	35,043,364	1,409.4	7,653,184	1,111,473	35,296,001
KY	87,945	1.9	34,372	1.8	202,566.5	4.5	94,024,606	2,068.8	21,736,146	3,168,335	94,743,928
LA	48,822	0.9	22,952	1.0	68,262.4	1.3	54,079,551	1,044.8	7,371,132	1,072,855	54,323,241
MA	10,661	0.7	3,738	0.5	5,797.0	0.4	13,903,488	896.6	3,518,215	466,087	14,012,672
MD	16,611	0.9	5,715	0.7	25,394.6	1.3	22,193,984	1,173.7	5,571,281	802,092	22,376,807
ME	3,447	0.5	1,259	0.4	2,663.8	0.4	2,444,128	369.0	2,441,357	349,690	2,515,613
MI	65,469	1.2	28,816	1.3	157,532.5	3.0	68,924,467	1,291.4	15,525,867	2,242,505	69,435,077
MN	27,899	1.0	11,232	1.0	29,458.7	1.0	34,721,820	1,218.7	9,072,245	1,300,190	35,005,209
MO	75,286	1.7	31,701	1.6	136,378.8	3.1	76,644,899	1,745.2	18,390,134	2,671,105	77,252,017
MS	21,077	0.8	10,647	0.8	93,302.5	3.4	27,319,283	991.1	3,571,758	521,659	27,437,644
MT	20,374	1.3	8,128	1.3	15,241.9	1.0	19,900,787	1,315.4	4,134,182	616,159	20,039,701
NC	44,491	0.7	17,911	0.6	45,719.3	0.7	62,236,764	985.8	13,663,305	1,967,753	62,683,477
ND	47,053	2.6	18,578	2.6	51,075.3	2.8	33,070,745	1,814.0	7,404,665	1,076,890	33,315,412
NE	25,243	1.3	10,546	1.2	61,801.0	3.1	27,549,040	1,397.3	6,323,899	919,594	27,757,978
NH	3,975	0.4	970	0.2	2,901.2	0.3	3,701,372	378.9	2,090,549	278,517	3,766,493
NJ	11,557	0.3	5,017	0.4	2,965.8	0.1	20,149,529	603.1	2,895,284	375,003	20,238,055
NM	45,305	2.8	19,715	2.8	12,066.1	0.7	27,225,976	1,685.5	5,367,401	772,985	27,402,147
NV	14,737	0.8	7,051	0.8	10,624.2	0.6	17,396,240	971.8	2,128,156	292,195	17,463,876
NY	28,874	0.4	10,826	0.4	22,527.6	0.3	36,167,243	541.2	5,177,514	678,872	36,326,832
OH	91,686	1.4	34,613	1.2	313,804.4	4.7	107,760,648	1,602.6	22,926,790	3,324,399	108,516,578
OK	39,668	1.1	17,097	1.1	76,462.6	2.2	47,555,509	1,358.7	8,437,837	1,210,932	47,831,801
OR	9,711	0.3	3,932	0.3	7,820.6	0.3	9,427,494	313.7	1,800,440	242,435	9,483,976
PA	132,454	1.2	48,550	1.0	278,502.0	2.5	110,641,213	1,001.1	20,607,439	3,292,060	111,367,832
RI	840	0.3	333	0.2	78.4	0.0	2,786,617	893.2	106,058	11,018	2,789,438
SC	17,109	0.4	7,701	0.4	28,566.4	0.6	35,731,683	735.5	8,225,400	1,205,741	35,993,678
SD	10,613	1.9	4,080	1.8	13,860.0	2.5	3,399,901	618.4	725,854	105,225	3,423,833
TN	20,311	0.5	9,450	0.6	62,052.5	1.6	44,548,794	1,120.6	9,340,083	1,368,254	44,856,110
TX	175,720	0.8	81,685	0.8	348,791.1	1.6	274,304,874	1,252.4	38,284,107	5,399,750	275,542,416
UT	55,363	2.5	24,038	2.4	29,339.5	1.3	38,905,214	1,777.1	8,177,551	1,199,487	39,176,998
VA	28,869	0.7	11,374	0.7	34,053.9	0.9	34,234,584	885.2	8,465,806	1,202,781	34,506,033
VT	426	0.1	161	0.1	59.8	0.0	66,889	19.0	446,684	58,696	80,677
WA	9,722	0.2	3,608	0.1	4,592.0	0.1	13,321,448	229.1	2,904,854	417,378	13,416,642
WI	28,087	0.9	11,732	0.9	49,449.7	1.6	47,009,802	1,541.1	10,330,152	1,498,999	47,350,614
WV	71,756	1.8	29,959	1.8	95,526.6	2.4	79,862,187	1,987.7	18,444,096	2,721,810	80,477,730
WY	43,083	1.7	17,685	1.8	38,097.1	1.5	49,892,503	2,007.9	11,181,985	1,625,704	50,261,898
<b>U.S.</b>	<b>1,967,626</b>	<b>1.0</b>	<b>826,081</b>	<b>0.9</b>	<b>3,369,074</b>	<b>1.7</b>	<b>2,331,467,711</b>	<b>1,143.0</b>	<b>458,218,597</b>	<b>66,181,198</b>	<b>2,346,478,012</b>

(created 1/13/2017)

## 11. State Resource Mix (eGRID2014)

State	Nameplate capacity (MW)	Net generation (MWh)	Generation Resource Mix (percent)										
			Coal	Oil	Gas	Other Fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown/purchased fuel
AK	3,184	6,045,142	9.2	7.4	54.4	0.0	0.0	25.5	1.0	2.5	0.0	0.0	0.0
AL	38,311	149,248,103	31.7	0.1	32.3	0.1	27.6	6.3	1.8	0.0	0.0	0.0	0.0
AR	19,444	61,592,137	53.9	0.0	15.6	0.0	23.5	4.4	2.5	0.0	0.0	0.0	0.0
AZ	39,166	108,779,907	38.0	0.1	24.2	0.0	28.8	5.5	0.2	0.4	2.8	0.0	0.0
CA	105,821	197,243,680	0.4	0.0	60.4	0.7	8.6	8.3	3.5	6.6	5.0	6.1	0.3
CO	19,133	53,847,380	60.4	0.0	22.2	0.0	0.0	2.9	0.2	13.7	0.5	0.0	0.1
CT	10,402	33,651,816	2.5	1.5	43.6	1.8	47.1	1.3	2.2	0.0	0.0	0.0	0.0
DC	25	67,612	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DE	4,000	7,598,247	11.4	2.4	81.5	3.0	0.0	0.0	1.0	0.1	0.7	0.0	0.0
FL	95,151	229,963,756	22.6	0.8	60.9	0.6	12.1	0.1	2.1	0.0	0.1	0.0	0.7
GA	51,324	125,805,608	36.0	0.3	32.6	0.1	25.9	1.8	3.3	0.0	0.1	0.0	0.0
HI	3,221	10,204,159	14.8	67.9	0.0	2.5	0.0	0.9	3.3	5.7	0.4	2.5	2.1
IA	19,951	56,846,168	59.3	0.3	2.4	0.0	7.3	1.5	0.5	28.7	0.0	0.0	0.0
ID	5,504	15,102,587	0.5	0.0	16.5	0.0	0.0	59.6	3.8	18.6	0.0	0.5	0.5
IL	61,002	202,134,057	43.2	0.0	2.7	0.2	48.4	0.1	0.3	5.0	0.0	0.0	0.1
IN	40,245	115,023,340	84.6	1.2	8.3	1.9	0.0	0.3	0.3	3.0	0.1	0.0	0.3
KS	18,320	49,727,762	57.8	0.1	2.9	0.0	17.2	0.0	0.1	21.8	0.0	0.0	0.0
KY	29,648	90,896,435	92.0	1.3	2.8	0.1	0.0	3.5	0.5	0.0	0.0	0.0	0.0
LA	34,085	103,522,969	18.5	5.0	53.8	1.9	16.6	1.0	2.7	0.0	0.0	0.0	0.5
MA	18,890	31,014,179	9.0	3.1	59.6	2.8	18.6	1.4	3.9	0.7	0.9	0.0	0.0
MD	17,844	37,819,445	46.5	1.2	6.6	0.8	37.9	4.3	1.5	0.8	0.2	0.0	0.0
ME	5,832	13,245,795	0.6	2.3	32.8	2.3	0.0	27.3	25.6	8.3	0.0	0.0	0.7
MI	35,992	106,747,582	49.6	1.0	11.7	1.4	29.3	0.8	2.6	3.6	0.0	0.0	0.0
MN	21,058	56,981,324	49.1	0.1	6.8	0.5	22.3	1.0	3.1	17.0	0.0	0.0	0.2
MO	24,281	87,833,977	82.4	0.1	4.6	0.0	10.6	0.8	0.1	1.3	0.0	0.0	0.0
MS	19,439	55,127,092	19.5	0.0	59.1	0.0	18.6	0.0	2.7	0.0	0.0	0.0	0.0
MT	7,012	30,257,616	51.5	1.4	1.7	0.0	0.0	38.0	0.0	6.5	0.0	0.0	0.9
NC	45,383	126,271,599	38.4	0.4	22.4	0.2	32.0	3.8	2.0	0.0	0.6	0.0	0.2
ND	8,673	36,462,508	75.1	0.1	0.6	0.1	0.0	6.9	0.0	17.0	0.0	0.0	0.1
NE	9,644	39,431,138	63.2	0.1	1.0	0.0	25.6	2.9	0.2	6.9	0.0	0.0	0.0
NH	4,674	19,538,395	6.7	1.5	22.5	0.3	52.0	7.1	7.9	2.1	0.0	0.0	0.0
NJ	27,095	66,819,245	3.8	0.7	45.1	0.8	47.2	0.0	1.5	0.0	0.8	0.0	0.2
NM	11,368	32,305,545	63.0	0.2	27.8	0.0	0.0	0.3	0.0	7.0	1.6	0.0	0.0
NV	19,705	35,801,019	18.3	0.0	63.6	0.0	0.0	6.7	0.1	0.8	2.8	7.6	0.0
NY	50,628	133,648,655	3.4	1.6	39.6	0.7	31.5	18.7	1.8	2.9	0.1	0.0	0.0
OH	44,231	134,484,232	66.8	0.9	17.6	0.7	12.1	0.4	0.6	0.9	0.0	0.0	0.0
OK	31,554	70,003,762	42.7	0.0	38.1	0.0	0.0	1.9	0.5	16.8	0.0	0.0	0.0
OR	19,745	60,110,812	5.3	0.0	21.1	0.1	0.0	58.7	1.9	12.6	0.0	0.3	0.0
PA	59,364	221,043,692	35.7	0.4	24.0	0.6	35.6	0.9	1.1	1.6	0.0	0.0	0.0
RI	2,391	6,239,678	0.0	1.2	95.1	0.0	0.0	0.1	3.3	0.2	0.2	0.0	0.0
SC	30,335	97,158,465	29.8	0.3	11.7	0.0	54.0	1.7	2.5	0.0	0.0	0.0	0.0
SD	4,587	10,995,239	24.5	0.1	4.2	0.0	0.0	50.0	0.0	21.2	0.0	0.0	0.0
TN	27,143	79,506,886	45.1	0.2	7.8	0.0	34.8	10.6	1.3	0.1	0.0	0.0	0.0
TX	171,075	438,052,226	33.9	0.1	46.8	0.5	9.0	0.1	0.4	9.1	0.1	0.0	0.1
UT	10,578	43,784,526	76.2	0.1	19.1	0.0	0.0	1.4	0.2	1.5	0.0	1.2	0.3
VA	33,491	77,345,532	26.9	1.6	27.0	0.6	39.0	0.0	5.0	0.0	0.0	0.0	0.0
VT	1,303	7,024,733	0.0	0.1	0.0	0.0	72.0	16.7	6.4	4.4	0.2	0.0	0.0
WA	33,790	116,272,503	5.8	0.0	9.5	0.3	8.2	68.3	1.6	6.2	0.0	0.0	0.1
WI	23,301	61,008,458	61.4	0.5	13.1	0.0	15.5	4.1	2.7	2.7	0.0	0.0	0.1
WV	19,025	80,357,568	95.6	0.2	0.8	0.0	0.0	1.5	0.0	1.8	0.0	0.0	0.0
WY	13,269	49,696,184	87.3	0.1	1.1	0.7	0.0	1.7	0.0	8.9	0.0	0.0	0.1
<b>U.S.</b>	<b>1,450,635</b>	<b>4,079,690,474</b>	<b>38.7</b>	<b>0.7</b>	<b>27.5</b>	<b>0.5</b>	<b>19.5</b>	<b>6.2</b>	<b>1.6</b>	<b>4.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.1</b>

## 12. Generation by Fuel Type and CO<sub>2</sub> Emission Rates (eGRID2014)



Source: eGRID 2014  
<http://epa.gov/egrid>