

# eGRID2014v2

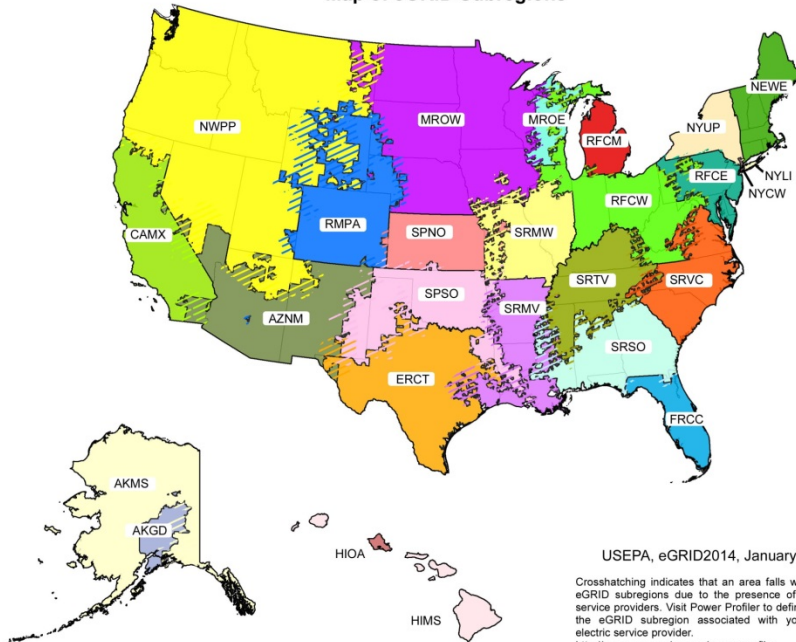
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# 1. Subregion Emissions – Greenhouse Gases (eGRID2014v2)

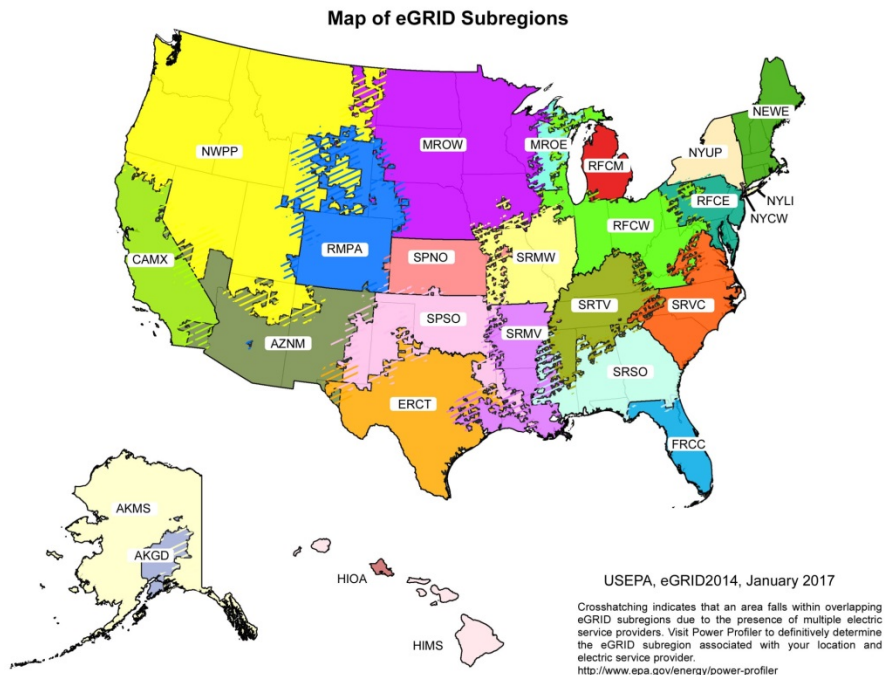
eGRID subregion acronym	eGRID subregion name	Carbon dioxide (CO <sub>2</sub> )		Methane (CH <sub>4</sub> )		Nitrous oxide (N <sub>2</sub> O)		Carbon dioxide equivalent (CO <sub>2</sub> e)	
		Emissions (tons)	Total output emission rate (lb/MWh)	Emissions (lbs)	Total output emission rate (lb/GWh)	Emissions (lbs)	Total output emission rate (lb/GWh)	Emissions (tons)	Total output emission rate (lb/MWh)
AKGD	ASCC Alaska Grid	2,214,116	926.5	222,858	46.6	34,224	7.2	2,221,760	929.7
AKMS	ASCC Miscellaneous	430,690	680.5	45,658	36.1	7,593	6.0	432,346	683.1
AZNM	WECC Southwest	58,563,269	875.6	8,879,307	66.4	1,245,749	9.3	58,849,593	879.9
CAMX	WECC California	53,680,281	568.6	6,250,270	33.1	761,974	4.0	53,854,483	570.5
ERCT	ERCOT All	211,735,194	1,142.8	30,325,752	81.8	4,289,325	11.6	212,717,057	1,148.0
FRCC	FRCC All	118,282,371	1,075.2	19,312,806	87.8	2,651,537	12.1	118,896,144	1,080.8
HIMS	HICC Miscellaneous	1,339,709	940.8	271,528	95.3	43,347	15.2	1,349,279	947.5
HIOA	HICC Oahu	5,441,484	1,479.4	1,172,643	159.4	179,929	24.5	5,481,686	1,490.4
MROE	MRO East	18,497,713	1,663.8	4,250,589	191.2	626,562	28.2	18,639,462	1,676.5
MROW	MRO West	141,705,986	1,365.1	33,502,085	161.4	4,847,159	23.3	142,795,669	1,375.6
NEWE	NPCC New England	31,602,399	570.9	10,629,502	96.0	1,421,985	12.8	31,929,472	576.8
NWPP	WECC Northwest	154,889,125	907.0	33,406,567	97.8	4,858,178	14.2	155,992,911	913.4
NYCW	NPCC NYC/Westchester	12,704,375	665.5	930,256	24.4	113,444	3.0	12,731,726	666.9
NYLI	NPCC Long Island	6,755,703	1,196.2	1,495,600	132.4	194,205	17.2	6,801,509	1,204.3
NYUP	NPCC Upstate NY	15,390,740	365.7	2,582,761	30.7	348,328	4.1	15,471,850	367.6
RFCE	RFC East	112,461,602	829.4	20,048,710	73.9	3,044,114	11.2	113,143,923	834.5
RFCM	RFC Michigan	64,844,805	1,531.5	14,403,402	170.1	2,071,401	24.5	65,317,108	1,542.6
RFCW	RFC West	393,719,824	1,380.9	85,649,775	150.2	12,564,517	22.0	396,566,564	1,390.9
RMPA	WECC Rockies	65,365,297	1,737.7	13,403,254	178.2	1,938,827	25.8	65,806,549	1,749.4
SPNO	SPP North	55,810,220	1,575.0	12,316,519	173.8	1,787,119	25.2	56,216,547	1,586.5
SPSO	SPP South	112,528,316	1,475.9	20,653,748	135.4	3,002,599	19.7	113,210,583	1,484.8
SRMV	SERC Mississippi Valley	84,494,240	1,022.0	13,001,063	78.6	1,859,771	11.2	84,919,015	1,027.1
SRMW	SERC Midwest	132,795,003	1,772.0	31,301,304	208.8	4,552,000	30.4	133,829,227	1,785.8
SRSO	SERC South	152,586,788	1,143.8	27,670,676	103.7	4,088,869	15.3	153,508,899	1,150.7
SRTV	SERC Tennessee Valley	157,859,024	1,336.3	32,755,804	138.6	4,771,161	20.2	158,938,383	1,345.4
SRVC	SERC Virginia/Carolina	124,852,197	856.6	27,904,369	95.7	4,016,059	13.8	125,756,386	862.8
<b>U.S.</b>		<b>2,290,550,472</b>	<b>1,122.9</b>	<b>452,386,805</b>	<b>110.9</b>	<b>65,319,979</b>	<b>16.0</b>	<b>2,305,378,134</b>	<b>1,130.2</b>

Map of eGRID Subregions



## 2. Subregion Emissions – Criteria Pollutants (eGRID2014v2)

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	4,918	2.1	2,038	2.2	1,493	0.6
AKMS	ASCC Miscellaneous	6,103	9.6	2,101	8.8	611,795	1.0
AZNM	WECC Southwest	43,739	0.7	19,870	0.6	21,799	0.3
CAMX	WECC California	22,684	0.2	9,756	0.2	3,773	0.0
ERCT	ERCOT All	110,183	0.6	51,735	0.6	294,074	1.6
FRCC	FRCC All	68,058	0.6	31,106	0.6	90,485	0.8
HIMS	HICC Miscellaneous	9,845	6.9	4,474	7.3	5,433	3.8
HIOA	HICC Oahu	9,708	2.6	4,231	2.7	32,109	8.7
MROE	MRO East	12,314	1.1	5,244	1.2	33,933	3.1
MROW	MRO West	151,260	1.5	61,547	1.5	238,965	2.3
NEWE	NPCC New England	25,764	0.5	8,959	0.4	12,985	0.2
NWPP	WECC Northwest	204,054	1.2	87,133	1.2	106,975	0.6
NYCW	NPCC NYC/Westchester	5,913	0.3	2,797	0.3	876,692	0.0
NYLI	NPCC Long Island	5,050	0.9	1,947	0.8	2,529	0.4
NYUP	NPCC Upstate NY	16,929	0.4	5,734	0.3	17,739	0.4
RFCE	RFC East	112,556	0.8	40,646	0.7	260,955	1.9
RFCM	RFC Michigan	59,030	1.4	26,195	1.4	148,364	3.5
RFCW	RFC West	357,568	1.3	143,373	1.2	828,350	2.9
RMPA	WECC Rockies	57,391	1.5	24,283	1.5	39,824	1.1
SPNO	SPP North	42,234	1.2	19,479	1.2	55,377	1.6
SPSO	SPP South	86,582	1.1	39,087	1.1	176,058	2.3
SRMV	SERC Mississippi Valley	79,876	1.0	37,545	1.0	120,816	1.5
SRMW	SERC Midwest	96,084	1.3	38,661	1.3	217,837	2.9
SRSO	SERC South	100,922	0.8	40,870	0.7	265,399	2.0
SRTV	SERC Tennessee Valley	115,896	1.0	47,537	1.0	249,824	2.1
SRVC	SERC Virginia/Carolina	84,779	0.6	34,869	0.6	98,599	0.7
<b>U.S.</b>		<b>1,889,441</b>	<b>0.9</b>	<b>791,214</b>	<b>0.9</b>	<b>3,325,186</b>	<b>1.6</b>



### 3. Subregion Output Emission Rates – Greenhouse Gases (eGRID2014v2)

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	926.5	46.6	7.2	929.7	1,093.0	1,051.6	47.9	7.8	1,055.1
AKMS	ASCC Miscellaneous	680.5	36.1	6.0	683.1	3,416.4	3,766.0	176.5	30.5	3,779.1
AZNM	WECC Southwest	875.6	66.4	9.3	879.9	1,466.1	1,257.1	67.7	9.2	1,261.4
CAMX	WECC California	568.6	33.1	4.0	570.5	866.6	913.9	35.5	4.2	915.8
ERCT	ERCOT All	1,142.8	81.8	11.6	1,148.0	1,455.3	1,389.4	85.6	11.9	1,394.9
FRCC	FRCC All	1,075.2	87.8	12.1	1,080.8	1,259.1	1,209.0	82.1	11.3	1,214.2
HIMS	HICC Miscellaneous	940.8	95.3	15.2	947.5	1,515.0	1,329.2	142.9	22.6	1,339.2
HIOA	HICC Oahu	1,479.4	159.4	24.5	1,490.4	1,523.9	1,470.1	140.0	22.4	1,480.0
MROE	MRO East	1,663.8	191.2	28.2	1,676.5	2,007.2	1,808.7	200.9	29.4	1,822.0
MROW	MRO West	1,365.1	161.4	23.3	1,375.6	2,196.3	2,032.7	238.4	34.3	2,048.2
NEWE	NPCC New England	570.9	96.0	12.8	576.8	1,011.3	1,066.0	107.9	14.7	1,072.6
NWPP	WECC Northwest	907.0	97.8	14.2	913.4	1,866.1	1,562.3	154.0	22.1	1,572.4
NYCW	NPCC NYC/Westchester	665.5	24.4	3.0	666.9	1,206.4	1,312.8	25.9	3.0	1,314.2
NYLI	NPCC Long Island	1,196.2	132.4	17.2	1,204.3	1,143.0	1,345.4	43.8	5.7	1,348.1
NYUP	NPCC Upstate NY	365.7	30.7	4.1	367.6	1,111.7	1,194.7	90.5	12.4	1,200.4
RFCE	RFC East	829.4	73.9	11.2	834.5	1,480.3	1,472.6	119.7	17.3	1,480.5
RFCM	RFC Michigan	1,531.5	170.1	24.5	1,542.6	1,974.9	1,863.6	194.0	27.9	1,876.3
RFCW	RFC West	1,380.9	150.2	22.0	1,390.9	1,966.4	1,949.8	202.6	29.9	1,963.3
RMPA	WECC Rockies	1,737.7	178.2	25.8	1,749.4	2,061.0	1,803.3	164.2	23.5	1,814.0
SPNO	SPP North	1,575.0	173.8	25.2	1,586.5	2,161.4	2,065.9	218.3	31.6	2,080.3
SPSO	SPP South	1,475.9	135.4	19.7	1,484.8	1,723.2	1,597.0	127.7	18.3	1,605.4
SRMV	SERC Mississippi Valley	1,022.0	78.6	11.2	1,027.1	1,338.3	1,250.3	85.5	12.1	1,255.9
SRMW	SERC Midwest	1,772.0	208.8	30.4	1,785.8	2,110.5	2,120.3	246.4	35.8	2,136.6
SRSO	SERC South	1,143.8	103.7	15.3	1,150.7	1,560.0	1,527.9	136.5	20.1	1,537.0
SRTV	SERC Tennessee Valley	1,336.3	138.6	20.2	1,345.4	1,964.7	1,923.4	185.3	26.9	1,935.6
SRVC	SERC Virginia/Carolina	856.6	95.7	13.8	862.8	1,605.3	1,427.5	141.8	20.3	1,436.7
<b>U.S.</b>		<b>1,122.9</b>	<b>110.9</b>	<b>16.0</b>	<b>1,130.2</b>	<b>1,665.0</b>	<b>1,543.7</b>	<b>269.6</b>	<b>38.7</b>	<b>1,552.5</b>

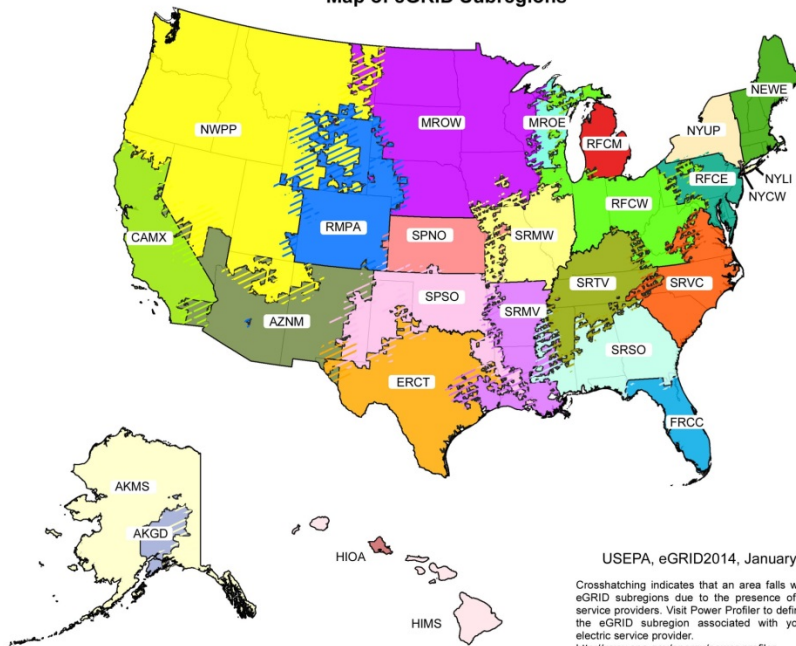
Map of eGRID Subregions



## 4. Subregion Output Emission Rates – Criteria Pollutants (eGRID2014v2)

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	0.6	2.4	2.6	0.7	2.4	2.7	0.7
AKMS	ASCC Miscellaneous	9.6	8.8	1.0	48.4	45.2	4.9	55.5	51.5	5.4
AZNM	WECC Southwest	0.7	0.6	0.3	1.1	0.9	0.5	0.7	0.6	0.4
CAMX	WECC California	0.2	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.1
ERCT	ERCOT All	0.6	0.6	1.6	0.7	0.7	2.0	0.7	0.7	1.9
FRCC	FRCC All	0.6	0.6	0.8	0.6	0.6	1.0	0.6	0.6	0.8
HIMS	HICC Miscellaneous	6.9	7.3	3.8	11.4	12.4	6.1	10.8	11.5	5.1
HIOA	HICC Oahu	2.6	2.7	8.7	2.7	2.7	9.5	3.3	3.2	8.8
MROE	MRO East	1.1	1.2	3.1	1.1	1.1	3.5	1.2	1.3	3.2
MROW	MRO West	1.5	1.5	2.3	2.3	2.2	3.7	2.4	2.3	3.8
NEWE	NPCC New England	0.5	0.4	0.2	0.4	0.2	0.3	0.7	0.4	0.6
NWPP	WECC Northwest	1.2	1.2	0.6	2.2	2.2	1.3	1.9	1.8	1.0
NYCW	NPCC NYC/Westchester	0.3	0.3	0.0	0.5	0.5	0.1	0.6	0.6	0.1
NYLI	NPCC Long Island	0.9	0.8	0.4	0.6	0.5	0.5	1.0	0.8	0.8
NYUP	NPCC Upstate NY	0.4	0.3	0.4	0.7	0.5	1.2	1.1	0.8	1.7
RFCE	RFC East	0.8	0.7	1.9	1.3	1.1	3.5	1.4	1.2	2.8
RFCM	RFC Michigan	1.4	1.4	3.5	1.6	1.7	4.5	1.6	1.6	4.6
RFCW	RFC West	1.3	1.2	2.9	1.7	1.6	4.1	1.7	1.6	5.5
RMPA	WECC Rockies	1.5	1.5	1.1	1.8	1.8	1.3	1.6	1.5	1.2
SPNO	SPP North	1.2	1.2	1.6	1.6	1.6	2.1	1.8	1.8	2.5
SPSO	SPP South	1.1	1.1	2.3	1.3	1.3	2.7	1.3	1.2	2.4
SRMV	SERC Mississippi Valley	1.0	1.0	1.5	1.2	1.3	1.9	1.1	1.2	1.5
SRMW	SERC Midwest	1.3	1.3	2.9	1.5	1.5	3.5	1.3	1.3	3.6
SRSO	SERC South	0.8	0.7	2.0	1.0	0.9	2.6	1.2	1.1	4.0
SRTV	SERC Tennessee Valley	1.0	1.0	2.1	1.4	1.3	3.1	1.4	1.3	3.2
SRVC	SERC Virginia/Carolina	0.6	0.6	0.7	1.0	0.9	1.2	0.9	0.8	1.3
<b>U.S.</b>		<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>1.3</b>	<b>1.2</b>	<b>2.4</b>	<b>1.2</b>	<b>1.1</b>	<b>2.5</b>

Map of eGRID Subregions



(created 2/27/2017)

## 5. Subregion Resource Mix (eGRID2014v2)

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	60,929	133,768,579	21.3	0.0	39.1	0.0	23.6	6.4	0.4	1.8	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	147,892	370,571,252	33.2	0.1	45.3	0.4	10.6	0.1	0.3	9.8	0.1	0.0	0.1
FRCC	FRCC All	89,697	220,021,589	21.7	0.8	61.4	0.6	12.7	0.1	1.9	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	11,113	22,235,749	71.3	1.3	10.5	0.1	0.0	5.0	4.7	6.9	0.0	0.0	0.2
MROW	MRO West	67,579	207,611,288	58.4	0.1	3.2	0.2	13.0	5.7	1.3	18.0	0.0	0.0	0.2
NEW	NPCC New England	43,497	110,720,137	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	96,902	341,556,933	36.2	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	30,563	84,168,392	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	4.4	0.0	0.0	0.0
RFCW	RFC West	171,618	570,243,268	60.0	0.5	9.3	0.7	25.7	0.6	0.6	2.4	0.0	0.0	0.1
RMPA	WECC Rockies	24,272	75,232,399	68.3	0.0	16.0	0.0	0.0	2.9	0.2	12.3	0.3	0.0	0.1
SPNO	SPP North	25,936	70,870,476	66.2	0.2	6.5	0.0	12.1	0.0	0.1	14.9	0.0	0.0	0.0
SPSO	SPP South	60,561	152,492,581	48.4	2.1	34.5	0.3	0.0	2.2	1.6	10.8	0.1	0.0	0.0
SRMV	SERC Mississippi Valley	54,116	165,354,320	25.8	1.2	49.0	1.4	19.2	1.4	1.7	0.0	0.0	0.0	0.3
SRMW	SERC Midwest	39,649	149,881,067	82.4	0.1	1.2	0.1	12.2	0.8	0.1	2.9	0.0	0.0	0.2
SRSO	SERC South	82,242	266,801,836	36.2	0.2	36.5	0.0	21.5	2.6	3.0	0.0	0.0	0.0	0.0
SRTV	SERC Tennessee Valley	76,365	236,266,394	52.4	0.6	14.8	0.1	23.0	7.9	1.1	0.0	0.0	0.0	0.0
SRVC	SERC Virginia/Carolina	98,786	291,512,233	31.7	0.6	20.8	0.3	42.2	1.3	2.9	0.0	0.2	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 (eGRID2014v2)

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	11,021	3.6	4,139	3.5	2,105	0.7	2,644,805	875.0	268,515	44.4	41,817	6.9
FRCC	Florida Reliability Coordinating Council	68,309	0.6	31,205	0.6	90,906	0.8	118,303,401	1,074.1	19,338,507	87.8	2,658,190	12.1
HICC	Hawaiian Islands Coordinating Council	19,553	3.8	8,705	3.9	37,542	7.4	6,781,193	1,329.1	1,444,170	141.5	223,276	21.9
MRO	Midwest Reliability Organization	163,442	1.4	66,729	1.5	273,078	2.4	159,577,502	1,406.7	37,595,815	165.7	5,452,871	24.0
NPCC	Northeast Power Coordinating Council	53,900	0.4	19,553	0.4	34,129	0.3	66,444,343	543.7	15,637,783	64.0	2,077,930	8.5
RFC	Reliability First Corporation	538,435	1.1	213,957	1.1	1,259,133	2.7	592,602,307	1,252.3	125,407,693	132.5	18,445,262	19.5
SERC	SERC Reliability Corporation	467,397	0.9	195,323	0.8	929,824	1.7	631,858,210	1,159.3	127,415,040	116.9	18,528,301	17.0
SPP	Southwest Power Pool	129,701	1.1	59,002	1.1	232,026	2.1	169,211,824	1,496.9	33,053,977	146.2	4,802,254	21.2
TRE	Texas Regional Entity	109,807	0.6	51,557	0.6	294,069	1.6	210,627,880	1,144.5	30,285,822	82.3	4,285,332	11.6
WECC	Western Electricity Coordinating Council	327,875	0.9	141,043	0.8	172,375	0.5	332,499,005	897.3	61,939,482	83.6	8,804,745	11.9
<b>U.S.</b>		<b>1,889,441</b>	<b>0.9</b>	<b>791,214</b>	<b>0.9</b>	<b>3,325,186</b>	<b>1.6</b>	<b>2,290,550,472</b>	<b>1,122.9</b>	<b>452,386,805</b>	<b>110.9</b>	<b>65,319,979</b>	<b>16.0</b>

## 7. NERC Region Output Emission Rates (eGRID2014v2)

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	875.0	44.4	6.9	5.1	5.1	1.0	1,228.9	6.2	6.1	1.0	1,241.4	113.8	18.9
FRCC	Florida Reliability Coordinating Council	0.6	0.6	0.8	1,074.1	87.8	12.1	0.6	0.6	1.0	1,259.1	0.6	0.6	0.8	1,208.9	164.3	22.5
HICC	Hawaiian Islands Coordinating Council	3.8	3.9	7.4	1,329.1	141.5	21.9	4.5	4.6	8.8	1,522.1	5.7	5.9	7.6	1,425.1	281.9	44.9
MRO	Midwest Reliability Organization	1.4	1.5	2.4	1,406.7	165.7	24.0	2.1	2.1	3.7	2,171.5	2.1	2.1	3.7	1,982.7	459.4	66.4
NPCC	Northeast Power Coordinating Council	0.4	0.4	0.3	543.7	64.0	8.5	0.5	0.4	0.5	1,082.4	0.8	0.6	0.8	1,164.7	167.5	22.6
RFC	Reliability First Corporation	1.1	1.1	2.7	1,252.3	132.5	19.5	1.6	1.5	4.0	1,861.1	1.6	1.5	4.6	1,823.8	363.8	53.2
SERC	SERC Reliability Corporation	0.9	0.8	1.7	1,159.3	116.9	17.0	1.2	1.1	2.5	1,697.9	1.2	1.1	2.7	1,590.4	295.7	42.8
SPP	Southwest Power Pool	1.1	1.1	2.1	1,496.9	146.2	21.2	1.4	1.4	2.5	1,836.2	1.4	1.4	2.4	1,707.1	298.8	43.0
TRE	Texas Regional Entity	0.6	0.6	1.6	1,144.5	82.3	11.6	0.7	0.7	2.0	1,460.2	0.7	0.7	1.9	1,396.9	173.2	24.2
WECC	Western Electricity Coordinating Council	0.9	0.8	0.5	897.3	83.6	11.9	1.4	1.3	0.8	1,540.3	1.0	1.0	0.6	1,310.9	191.7	26.7
<b>U.S.</b>		<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>1,122.9</b>	<b>110.9</b>	<b>16.0</b>	<b>1.3</b>	<b>1.2</b>	<b>2.4</b>	<b>1,665.0</b>	<b>1.2</b>	<b>1.1</b>	<b>2.5</b>	<b>1,543.7</b>	<b>269.6</b>	<b>38.7</b>



## 8. NERC Region Resource Mix (eGRID2014v2)

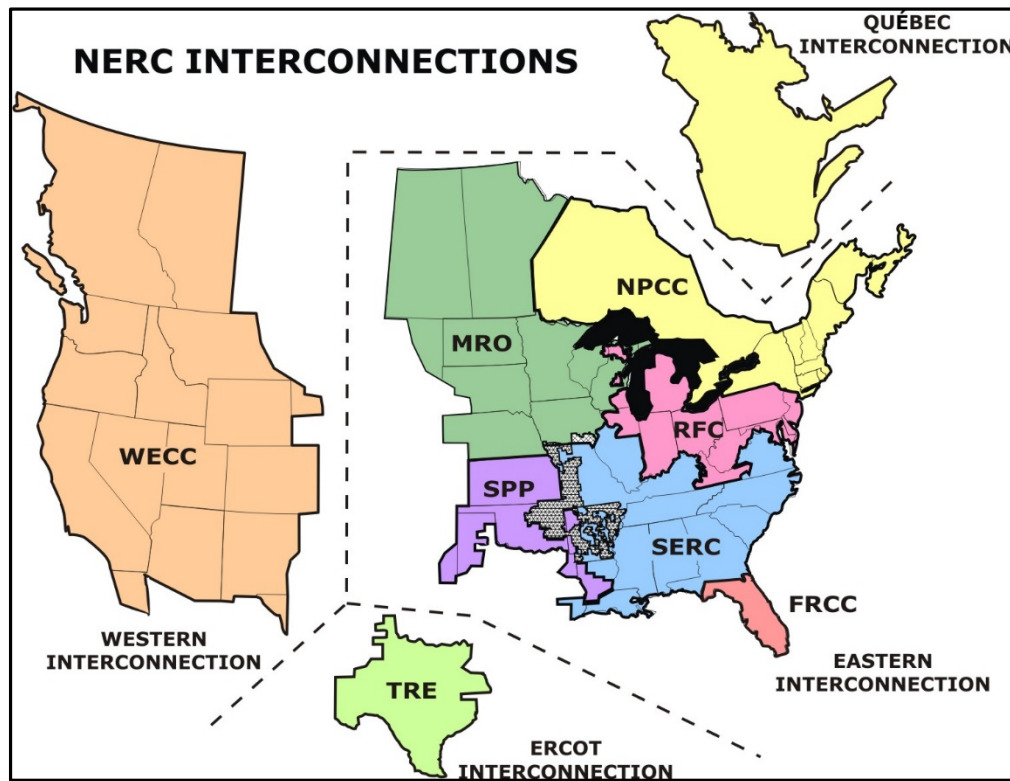
NERC region acronym	NERC region name	Nameplate capacity (MW)	Net generation (MWh)	Generation Resource Mix (percent)*										
				Coal	Oil	Gas	Other fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown/purchased fuel
ASCC	Alaska Systems Coordinating Council	3,184	6,045,142	9.2	7.4	54.4	0.0	0.0	25.5	1.0	2.5	0.0	0.0	0.0
FRCC	Florida Reliability Coordinating Council	92,220	220,289,215	21.6	0.8	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	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
MRO	Midwest Reliability Organization	77,401	226,884,641	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	244,407,312	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	946,453,574	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	1,090,114,814	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	226,079,970	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	368,065,450	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	741,146,198	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>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

## 9. Grid Gross Loss (%) (eGRID2014v2)

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 (eGRID2014v2)

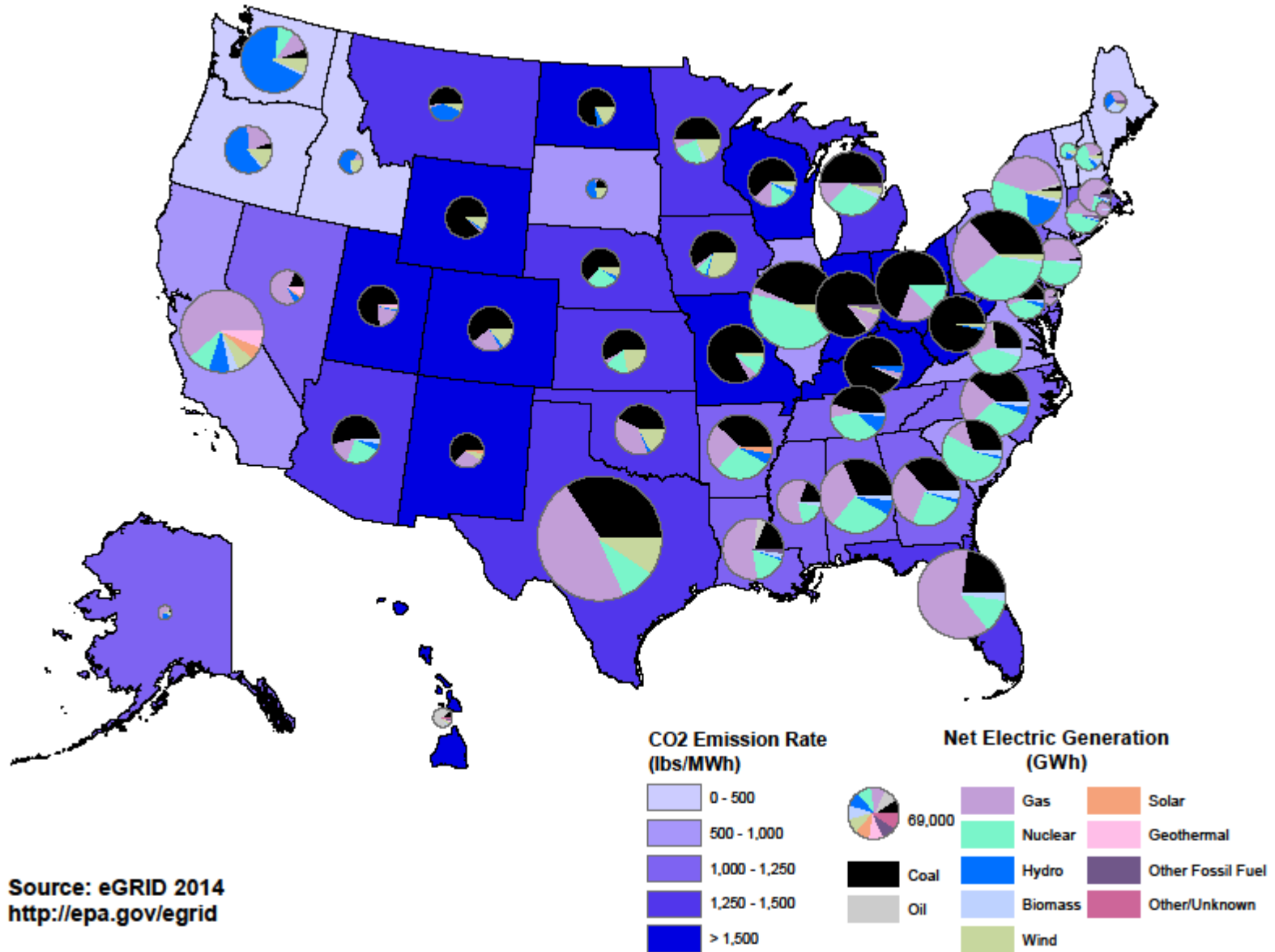
State	Nitrogen oxides (NO <sub>2</sub> )				Sulfur dioxide (SO <sub>2</sub> )		Carbon dioxide (CO <sub>2</sub> )		Methane (CH <sub>4</sub> )	Nitrous oxide (N <sub>2</sub> O)	Carbon dioxide equivalent (CO <sub>2</sub> e)
	Annual		Ozone season		Emissions (tons)	Output emission rate (lb/MWh)	Emissions (tons)	Output emission rate (lb/MWh)	Emissions (lbs)	Emissions (lbs)	Emissions (tons)
	Emissions (tons)	Output emission rate (lb/MWh)	Emissions (tons)	Output emission rate (lb/MWh)							
AK	11,021	3.6	4,139	3.5	2,104.7	0.7	2,644,805	875.0	268,515	41,817	2,654,106
AL	50,855	0.7	21,689	0.7	120,922.1	1.6	78,643,037	1,053.9	13,209,154	1,922,314	79,077,486
AR	39,444	1.3	18,555	1.4	77,729.0	2.5	39,535,585	1,283.8	8,476,457	1,245,139	39,817,585
AZ	49,434	0.9	22,134	0.8	22,610.6	0.4	60,422,378	1,110.9	11,309,165	1,625,491	60,793,076
CA	23,056	0.2	9,952	0.2	5,334.2	0.1	54,587,169	553.5	6,680,665	817,719	54,774,531
CO	42,389	1.6	18,486	1.6	27,258.7	1.0	42,616,654	1,582.9	8,508,112	1,226,827	42,896,148
CT	6,909	0.4	2,697	0.4	1,831.8	0.1	8,987,822	534.2	2,245,481	292,375	9,056,717
DC	0	0.0	0	0.0	0.2	0.0	40,047	1,184.6	1,511	151	40,086
DE	2,292	0.6	928	0.5	829.3	0.2	3,961,772	1,042.8	380,229	50,486	3,973,589
FL	74,600	0.6	33,715	0.6	102,244.5	0.9	125,753,313	1,093.7	20,718,376	2,859,030	126,414,006
GA	40,115	0.6	13,585	0.5	75,258.5	1.2	69,106,579	1,098.6	13,292,244	1,988,687	69,554,394
HI	19,553	3.8	8,705	3.9	37,542.1	7.4	6,781,193	1,329.1	1,444,170	223,276	6,830,965
IA	34,130	1.2	14,621	1.3	74,295.9	2.6	38,055,322	1,338.9	8,586,910	1,247,567	38,338,857
ID	17,168	2.3	7,272	2.1	1,056.3	0.1	1,107,906	146.7	156,640	25,686	1,113,532
IL	49,458	0.5	19,811	0.5	148,984.2	1.5	99,999,815	989.4	22,342,952	3,245,544	100,737,475
IN	112,929	2.0	46,715	1.9	293,960.0	5.1	113,232,515	1,968.9	24,404,650	3,544,614	114,038,178
KS	27,726	1.1	12,925	1.2	31,570.7	1.3	35,029,736	1,408.9	7,652,670	1,111,421	35,282,360
KY	87,906	1.9	34,350	1.8	202,494.9	4.5	94,007,833	2,068.5	21,727,248	3,166,312	94,726,748
LA	44,407	0.9	21,104	0.9	67,219.2	1.3	50,474,153	975.1	7,060,837	1,025,434	50,707,234
MA	10,452	0.7	3,651	0.5	5,780.3	0.4	13,778,384	888.5	3,512,907	465,487	13,887,420
MD	16,264	0.9	5,574	0.7	25,339.6	1.3	21,940,311	1,160.3	5,412,138	780,765	22,118,156
ME	3,184	0.5	1,158	0.4	2,342.3	0.4	2,292,308	346.1	2,228,291	315,950	2,359,734
MI	64,216	1.2	28,311	1.2	156,964.4	2.9	67,940,296	1,272.9	15,393,448	2,222,701	68,446,445
MN	27,615	1.0	11,122	1.0	29,008.2	1.0	34,198,306	1,200.3	8,776,872	1,258,627	34,472,152
MO	75,218	1.7	31,674	1.6	135,591.0	3.1	76,592,409	1,744.0	18,373,415	2,668,813	77,198,996
MS	20,771	0.8	10,508	0.8	92,660.9	3.4	27,209,854	987.2	3,502,986	505,592	27,325,002
MT	20,194	1.3	8,069	1.3	15,063.6	1.0	19,566,329	1,293.3	4,114,465	612,223	19,704,426
NC	43,456	0.7	17,476	0.6	43,435.0	0.7	61,856,263	979.7	13,214,881	1,905,777	62,288,821
ND	46,632	2.6	18,253	2.6	50,584.9	2.8	32,978,634	1,808.9	7,396,552	1,075,713	33,223,034
NE	25,213	1.3	10,533	1.2	61,637.9	3.1	27,467,791	1,393.2	6,305,349	916,903	27,676,117
NH	3,952	0.4	959	0.2	2,893.5	0.3	3,691,522	377.9	2,090,124	278,464	3,756,630
NJ	10,574	0.3	4,607	0.3	2,434.7	0.1	18,512,129	554.1	2,699,756	348,363	18,594,473
NM	45,223	2.8	19,677	2.8	12,065.7	0.7	27,162,310	1,681.6	5,365,411	772,786	27,338,429
NV	14,438	0.8	6,926	0.8	10,623.5	0.6	17,268,190	964.7	2,123,037	291,683	17,335,693
NY	27,896	0.4	10,478	0.4	21,144.7	0.3	34,851,025	521.5	5,008,633	655,981	35,005,293
OH	91,403	1.4	34,457	1.2	313,246.5	4.7	107,527,606	1,599.1	22,886,922	3,318,339	108,282,178
OK	39,471	1.1	17,013	1.1	76,340.8	2.2	47,430,123	1,355.1	8,405,594	1,205,609	47,705,251
OR	9,564	0.3	3,870	0.3	7,794.7	0.3	9,317,739	310.0	1,710,318	230,628	9,371,445
PA	131,572	1.2	48,219	1.0	275,665.3	2.5	109,308,571	989.0	20,508,739	3,258,758	110,028,992
RI	839	0.3	333	0.2	76.9	0.0	2,785,268	892.8	105,997	11,010	2,788,087
SC	16,861	0.3	7,524	0.4	28,206.6	0.6	35,581,835	732.5	8,026,422	1,174,252	35,840,698
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	19,108	0.5	8,889	0.5	54,968.1	1.4	42,356,033	1,065.5	8,999,702	1,316,877	42,652,133
TX	147,530	0.7	69,302	0.7	348,425.9	1.6	259,515,373	1,184.9	37,686,790	5,336,892	260,736,900
UT	55,166	2.5	23,931	2.4	29,271.1	1.3	38,780,766	1,771.4	8,166,905	1,198,102	39,052,224
VA	28,359	0.7	11,167	0.7	33,404.4	0.9	33,907,673	876.8	8,251,390	1,170,183	34,171,819
VT	426	0.1	161	0.1	59.8	0.0	66,889	19.0	446,684	58,696	80,677
WA	9,586	0.2	3,547	0.1	4,370.0	0.1	13,039,063	224.3	2,754,726	395,650	13,129,314
WI	26,600	0.9	11,203	0.8	45,583.7	1.5	46,199,118	1,514.5	10,164,502	1,473,223	46,534,194
WV	70,967	1.8	29,615	1.8	95,102.7	2.4	79,396,883	1,976.1	18,397,243	2,707,265	80,009,680
WY	42,689	1.7	17,543	1.8	37,992.1	1.5	49,643,934	1,997.9	11,164,764	1,623,554	50,012,815
<b>U.S.</b>	<b>1,889,441</b>	<b>0.9</b>	<b>791,214</b>	<b>0.9</b>	<b>3,325,186</b>	<b>1.6</b>	<b>2,290,550,472</b>	<b>1,122.9</b>	<b>452,386,805</b>	<b>65,319,979</b>	<b>2,305,378,134</b>

(created 2/27/2017)

## 11. State Resource Mix (eGRID2014v2)

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	18.4	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	37.9	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	39.5	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	4.0	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 (eGRID2014v2)



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