



DEPARTMENT OF ENERGY  
**2018 POWER STATISTICS**

Gross Power Generation by Plant Type\*  
in MWh

LUZON	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Share
Coal	15,814,345	14,351,121	15,548,335	14,653,275	14,099,158	14,417,796	13,503,727	14,091,376	20,046,584	19,681,127	21,877,501	25,755,945	27,346,492	29,679,511	33,143,458	33,952,671	37,362,128	51.4%
Oil-based	3,625,031	3,595,860	4,590,814	2,021,641	1,711,415	2,192,048	1,928,244	1,864,281	3,287,173	1,290,685	1,800,321	1,600,626	2,342,360	1,844,787	2,561,831	2,379,192	2,187,694	3.0%
Combined Cycle	748,450	438,755	738,437	90,608	238,870	652,834	513,442	638,520	1,202,040	123,556	227,354	247,159	514,980	275,892	693,685	405,022	522,115	0.7%
Diesel	2,166,500	2,317,101	2,688,194	1,910,774	1,315,067	1,348,033	952,751	594,559	1,003,383	890,321	1,099,123	1,183,466	1,520,521	1,483,116	1,622,749	1,692,212	1,520,177	2.1%
Gas Turbine	29,338	1,737	183	1,433	0	0	0	0	0	0	0	0	0	10,290	499	0	0	0.0%
Oil Thermal	680,743	838,268	1,164,000	18,826	157,478	191,182	462,051	631,203	1,081,749	276,807	473,844	170,001	306,859	75,489	244,898	281,958	145,402	0.2%
Natural Gas	8,770,851	13,139,410	12,384,467	16,860,917	16,365,960	18,789,414	19,575,855	19,886,827	19,517,854	20,591,323	19,641,527	18,783,471	18,685,808	18,877,915	19,853,783	20,547,239	21,333,789	29.3%
Renewable Energy (RE)	8,176,658	6,448,239	7,330,296	7,090,897	9,064,924	8,220,653	9,191,708	9,132,372	7,413,115	8,454,125	8,993,077	8,679,476	8,391,821	9,710,650	10,938,477	11,633,318	11,844,758	16.3%
Geothermal	5,276,171	2,600,465	3,033,417	2,742,203	3,519,417	3,600,503	3,729,921	3,515,964	3,323,495	3,485,813	3,588,417	3,398,601	3,817,330	4,096,454	4,226,913	3,909,704	3,871,484	5.3%
Hydro	2,900,487	3,847,774	4,296,879	4,331,224	5,492,271	4,562,309	5,400,402	5,549,227	4,013,529	4,836,470	5,292,482	5,155,521	4,357,160	4,768,825	5,011,100	5,729,567	5,944,913	8.2%
Biomass	0	0	0	0	0	0	0	2,752	14,375	43,638	36,839	59,699	65,279	187,188	438,807	598,665	593,968	0.8%
Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	66,427	494,946	495,984	503,131	0.7%
Wind	0	0	0	17,469	53,235	57,842	61,386	64,428	61,717	88,204	75,339	65,655	152,052	591,756	766,711	899,397	931,264	1.3%
<b>Total Generation</b>	<b>36,386,885</b>	<b>37,534,630</b>	<b>39,853,911</b>	<b>40,626,730</b>	<b>41,241,457</b>	<b>43,619,911</b>	<b>44,199,534</b>	<b>44,974,855</b>	<b>50,264,725</b>	<b>50,017,259</b>	<b>52,312,426</b>	<b>54,819,517</b>	<b>56,766,481</b>	<b>60,112,863</b>	<b>66,497,549</b>	<b>68,512,419</b>	<b>72,728,369</b>	<b>100.0%</b>
VISAYAS	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Share
Coal	313,542	587,626	646,077	603,903	718,663	848,428	745,686	822,007	1,528,682	4,032,202	4,701,053	4,689,683	4,449,483	4,968,437	5,270,242	6,623,593	6,784,714	47.6%
Oil-based	1,651,665	1,860,563	1,997,708	1,799,876	1,671,766	1,477,089	1,664,802	1,863,970	1,726,580	683,226	734,172	796,470	765,893	672,207	637,405	541,022	352,598	2.5%
Diesel	1,378,402	1,480,745	1,649,383	1,486,431	1,165,700	1,334,868	1,432,627	1,554,155	1,446,180	448,577	514,274	528,780	614,558	672,207	637,405	541,022	352,598	2.5%
Gas Turbine	7,499	40,236	82,094	23,862	193	9,045	36,485	61,972	3,164	0	0	0	0	0	0	0	0	0.0%
Oil Thermal	265,763	339,582	266,231	289,582	115,873	133,176	195,690	247,843	277,236	234,649	219,899	267,889	151,335	0	0	0	0	0.0%
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	7,815	4,269	0	0	0	0	0.0%
Renewable Energy (RE)	4,133,607	6,393,997	6,372,594	6,294,573	6,128,295	5,776,075	6,239,206	6,038,321	5,820,003	5,740,314	6,047,489	5,605,626	5,794,279	6,529,839	7,047,239	6,889,270	7,129,177	50.0%
Geothermal	4,108,410	6,360,964	6,338,317	6,267,377	6,100,202	5,746,878	6,199,159	5,984,957	5,771,218	5,615,561	5,930,484	5,463,017	5,627,241	6,105,383	5,974,487	5,563,581	5,737,443	40.2%
Hydro	25,197	33,033	34,277	27,196	28,093	29,197	40,047	42,406	35,889	53,117	46,161	36,936	35,475	38,375	63,532	90,087	72,562	0.5%
Biomass	0	0	0	0	0	0	0	10,957	12,896	71,636	70,844	105,673	116,523	158,864	276,053	414,483	439,269	3.1%
Solar	0	0	0	0	0	0	0	0	0	0	0	0	15,040	70,559	524,658	626,957	658,244	4.6%
Wind	0	0	0	0	0	0	0	0	0	0	0	0	156,658	208,509	194,161	221,660	1.6%	
<b>Total Generation</b>	<b>6,098,814</b>	<b>8,842,186</b>	<b>9,016,379</b>	<b>8,698,352</b>	<b>8,128,723</b>	<b>8,101,593</b>	<b>8,649,694</b>	<b>8,724,298</b>	<b>9,075,264</b>	<b>10,455,743</b>	<b>11,482,714</b>	<b>11,099,593</b>	<b>11,013,924</b>	<b>12,170,483</b>	<b>12,954,886</b>	<b>14,053,885</b>	<b>14,266,489</b>	<b>100.0%</b>
MINDANAO	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Share
Coal	0	0	0	0	476,245	1,570,872	1,499,380	1,562,753	1,725,839	1,628,848	1,886,314	1,635,380	1,257,542	2,037,738	4,889,542	6,271,010	7,785,345	61.0%
Oil-based	1,016,537	1,713,693	1,915,799	2,319,927	1,671,619	1,478,868	1,275,288	1,652,415	2,087,250	1,423,688	1,719,521	2,093,504	2,599,495	3,369,442	2,462,172	866,879	632,525	5.0%
Diesel	1,016,082	1,711,563	1,915,500	2,319,772	1,671,376	1,478,775	1,275,010	1,622,575	2,082,124	1,423,433	1,718,684	2,092,837	2,595,139	3,365,393	2,462,172	866,879	632,525	5.0%
Oil Thermal	455	2,129	299	155	242	93	278	29,840	5,126	256	837	673	4,356	4,050	0	0	0	0.0%
Natural Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Renewable Energy (RE)	4,965,201	4,850,029	5,171,340	4,922,732	5,266,085	4,840,544	5,197,088	5,020,111	4,589,680	5,650,112	5,721,036	5,617,847	5,623,555	4,722,686	3,993,743	4,666,147	4,351,990	34.1%
Geothermal	857,912	861,015	909,815	892,863	845,660	867,308	793,700	822,926	834,439	840,956	731,089	742,980	863,542	841,857	869,002	796,792	826,378	6.5%
Hydro	4,107,289	3,989,013	4,261,525	4,028,352	4,419,049	3,971,927	4,402,084	4,195,934	3,753,987	4,807,945	4,913,491	4,826,851	4,744,638	3,857,878	3,036,282	3,791,144	3,366,284	26.4%
Biomass	0	0	0	0	0	0	0	0	0	75,136	46,602	13,897	21,403	11,046	0	71,586	0	0.6%
Solar	0	0	0	1,517	1,376	1,309	1,304	1,252	1,254	1,212	1,320	1,414	1,477	1,548	77,412	87,211	87,742	0.7%
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
<b>Total Generation</b>	<b>5,981,738</b>	<b>6,563,721</b>	<b>7,087,140</b>	<b>7,242,659</b>	<b>7,413,949</b>	<b>7,890,283</b>	<b>7,971,756</b>	<b>8,235,278</b>	<b>8,402,769</b>	<b>8,702,648</b>	<b>9,126,871</b>	<b>9,346,731</b>	<b>9,480,592</b>	<b>10,129,866</b>	<b>11,345,457</b>	<b>11,804,037</b>	<b>12,769,861</b>	<b>100.0%</b>
PHILIPPINES by Grid	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Share
Luzon	36,386,885	37,534,630	39,853,911	40,626,730	41,241,457	43,619,911	44,199,534	44,974,855	50,264,725	50,017,259	52,312,426	54,819,517	56,766,481	60,112,863	66,497,549	68,512,419	72,728,369	72.9%
Visayas	6,098,814	8,842,186	9,016,379	8,698,352	8,128,723	8,101,593	8,649,694	8,724,298	9,075,264	10,455,743	11,482,714	11,099,593	11,013,924	12,170,483	12,954,886	14,053,885	14,266,489	14.3%
Mindanao	5,981,738	6,563,721	7,087,140	7,242,659	7,413,949	7,890,283	7,971,756	8,235,278	8,402,769	8,702,648	9,126,871	9,346,731	9,480,592	10,129,866	11,345,457	11,804,037	12,769,861	12.8%
<b>Total Generation</b>	<b>48,467,436</b>	<b>52,940,537</b>	<b>55,957,430</b>	<b>56,567,740</b>	<b>56,784,130</b>	<b>59,611,788</b>	<b>60,820,985</b>	<b>61,934,432</b>	<b>67,742,759</b>	<b>69,175,650</b>	<b>72,922,011</b>	<b>75,265,842</b>	<b>77,260,997</b>	<b>82,413,213</b>	<b>90,797,891</b>	<b>94,370,341</b>	<b>99,764,718</b>	<b>100.0%</b>



DEPARTMENT OF ENERGY  
**2018 POWER STATISTICS**

Gross Power Generation by Plant Type\*  
 in MWh

PHILIPPINES by Plant Type	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Share
<b>Coal</b>	<b>16,127,886</b>	<b>14,938,748</b>	<b>16,194,412</b>	<b>15,257,178</b>	<b>15,294,066</b>	<b>16,837,096</b>	<b>15,748,794</b>	<b>16,476,136</b>	<b>23,301,105</b>	<b>25,342,176</b>	<b>28,264,867</b>	<b>32,081,007</b>	<b>33,053,518</b>	<b>36,685,685</b>	<b>43,303,242</b>	<b>46,847,274</b>	<b>51,932,187</b>	<b>52.1%</b>
<b>Oil-based</b>	<b>6,293,233</b>	<b>7,170,115</b>	<b>8,504,321</b>	<b>6,141,444</b>	<b>4,664,799</b>	<b>5,148,006</b>	<b>4,868,333</b>	<b>5,380,666</b>	<b>7,101,002</b>	<b>3,397,599</b>	<b>4,254,015</b>	<b>4,490,600</b>	<b>5,707,748</b>	<b>5,886,437</b>	<b>5,661,408</b>	<b>3,787,093</b>	<b>3,172,817</b>	<b>3.2%</b>
<i>Combined Cycle</i>	748,450	438,755	738,437	90,608	238,870	652,834	513,442	638,520	1,202,040	123,556	227,354	247,159	514,980	275,892	693,685	405,022	522,115	0.5%
<i>Diesel</i>	4,560,984	5,509,409	6,253,077	5,716,977	4,152,144	4,161,675	3,660,388	3,771,289	4,531,688	2,762,331	3,332,081	3,805,078	4,730,219	5,520,716	4,722,326	3,100,113	2,505,300	2.5%
<i>Gas Turbine</i>	36,838	41,972	82,277	25,295	193	9,045	36,485	61,972	3,164	0	0	0	0	10,290	499	0	0	0.0%
<i>Oil Thermal</i>	946,961	1,179,979	1,430,529	308,564	273,593	324,452	658,018	908,885	1,364,111	511,712	694,580	438,363	462,550	79,539	244,898	281,958	145,402	0.1%
<b>Natural Gas</b>	<b>8,770,851</b>	<b>13,139,410</b>	<b>12,384,467</b>	<b>16,860,917</b>	<b>16,365,960</b>	<b>18,789,414</b>	<b>19,575,855</b>	<b>19,886,827</b>	<b>19,517,854</b>	<b>20,591,323</b>	<b>19,641,527</b>	<b>18,791,286</b>	<b>18,690,077</b>	<b>18,877,915</b>	<b>19,853,783</b>	<b>20,547,239</b>	<b>21,333,789</b>	<b>21.4%</b>
<b>Renewable Energy (RE)</b>	<b>17,275,466</b>	<b>17,692,264</b>	<b>18,874,230</b>	<b>18,308,202</b>	<b>20,459,304</b>	<b>18,837,272</b>	<b>20,628,003</b>	<b>20,190,804</b>	<b>17,822,798</b>	<b>19,844,551</b>	<b>20,761,602</b>	<b>19,902,949</b>	<b>19,809,655</b>	<b>20,963,175</b>	<b>21,979,459</b>	<b>23,188,735</b>	<b>23,325,925</b>	<b>23.4%</b>
<i>Geothermal</i>	10,242,493	9,822,444	10,281,550	9,902,443	10,465,279	10,214,688	10,722,780	10,323,847	9,929,152	9,942,330	10,249,990	9,604,598	10,308,113	11,043,694	11,070,403	10,270,077	10,435,305	10.5%
<i>Hydro</i>	7,032,973	7,869,820	8,592,681	8,386,773	9,939,413	8,563,433	9,842,534	9,787,567	7,803,405	9,697,532	10,252,134	10,019,308	9,137,273	8,665,078	8,110,915	9,610,799	9,383,758	9.4%
<i>Biomass</i>	0	0	0	0	0	0	0	13,710	27,270	115,274	182,819	211,973	195,699	367,456	725,906	1,013,148	1,104,823	1.1%
<i>Solar</i>	0	0	0	1,517	1,376	1,309	1,304	1,252	1,254	1,212	1,320	1,414	16,517	138,534	1,097,016	1,201,152	1,249,116	1.3%
<i>Wind</i>	0	0	0	17,469	53,235	57,842	61,386	64,428	61,717	88,204	75,339	65,655	152,052	748,414	975,219	1,093,558	1,152,923	1.2%
<b>Total Generation</b>	<b>48,467,436</b>	<b>52,940,537</b>	<b>55,957,430</b>	<b>56,567,740</b>	<b>56,784,130</b>	<b>59,611,788</b>	<b>60,820,985</b>	<b>61,934,432</b>	<b>67,742,759</b>	<b>69,175,650</b>	<b>72,922,011</b>	<b>75,265,842</b>	<b>77,260,997</b>	<b>82,413,213</b>	<b>90,797,891</b>	<b>94,370,341</b>	<b>99,764,718</b>	<b>100.0%</b>

Note:  
 Generation data includes grid connected, embedded and off-grid generator.  
 Revised as of 29 March 2019