



DEPARTMENT OF ENERGY
2019 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	2019	% Share
Coal	15,814,345	14,351,121	15,548,335	14,653,275	14,099,158	14,417,796	13,593,727	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	40,808,183	53.2%
Oil-based	3,625,031	3,895,860	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	2,673,944	3.5%
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	728,239	1.0%
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	1,736,224	2.3%
Gas Turbine	29,338	1,737	183	1,433	0	0	0	0	0	0	0	0	0	10,290	499	0	0	25,605	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	183,876	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	22,354,378	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	10,640,206	14.0%
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	3,646,931	4.8%
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	5,083,913	6.7%
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	592,051	0.8%
Solar	0	0	0	0	0	0	0	0	0	0	0	0	66,427	494,946	495,984	503,131	493,250	0.6%	
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	824,061	1.1%
Total Generation	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	76,176,710	100.0%

VISAYAS	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% 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	7,961,889	49.6%
Oil-based	1,651,665	1,860,563	1,997,708	1,799,876	1,281,766	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	524,266	3.3%
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	524,266	3.3%
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	0.0%
Oil Thermal	265,763	339,582	266,231	289,582	115,873	133,176	195,690	247,843	277,236	234,649	219,899	267,689	151,335	0	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	0.0%
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	5,820,303	5,740,314	6,047,489	5,605,626	5,794,279	6,529,839	7,047,239	6,889,270	7,129,177	7,573,431	47.2%
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	6,277,914	39.1%
Hydro	25,197	33,033	34,277	27,196	28,093	29,197	40,047	42,406	35,889	53,117	46,161	38,936	35,475	63,532	90,087	72,562	76,850	82,404	0.4%
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	355,646	2.2%
Solar	0	0	0	0	0	0	0	0	0	0	0	0	15,040	70,559	524,658	626,957	658,244	665,422	4.1%
Wind	0	0	0	0	0	0	0	0	0	0	0	0	156,658	208,509	194,161	221,660	217,599	174	1.4%
Total Generation	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	16,059,586	100.0%

MINDANAO	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% Share
Coal	0	0	0	0	476,245	1,570,872	1,499,380	1,562,753	1,725,839	1,628,848	1,686,314	1,635,380	1,257,542	2,037,738	4,889,542	6,271,010	7,785,345	9,420,357	68.2%
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	554,092	4.0%
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	2,092,831	2,595,139	3,365,393	2,462,172	866,879	632,525	554,092	4.0%
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	0.0%
Natural Gas	0	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	3,830,743	27.7%
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	841,857	868,002	796,792	826,378	765,959	765,959	5.5%
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	3,857,788	3,036,282	3,791,144	3,366,284	2,884,729	20.9%
Biomass	0	0	0	0	0	0	0	0	0	0	75,136	46,602	13,897	21,403	11,046	17,586	92,646	0.7%	
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	78,211	87,742	87,409	0.6%
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Total Generation	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	13,805,192	100.0%

PHILIPPINES by Grid	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% 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	76,176,710	71.8%
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	16,059,586	15.1%
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	13,805,192	13.0%
Total Generation	48,467,436	52,940,537	55,957,430	56,567,740	56,784,130	59,611,788	60,820,985	61,934,432	67,742,759	69,175,650	72,922,011	75,265,842	77,260,997	82,413,213	90,797,891	<			