



Department of Energy

2023 POWER STATISTICS

Gross Power Generation per Grid, by Plant Type
In MWh

PHILIPPINES by Plant Type	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% Share - 2023	
Generation per Technology (Grid)																							
Coal	14,938,748	16,194,412	15,257,178	15,294,066	16,837,096	15,748,794	16,476,136	23,301,105	25,342,176	28,264,867	32,081,007	33,053,518	36,685,685	43,303,242	46,847,274	51,932,187	57,890,429	58,176,002	62,052,246	66,429,544	73,753,848	62.50%	
Oil-based	7,170,115	8,504,321	6,141,444	4,864,799	5,148,006	4,868,333	5,380,666	7,101,002	3,397,699	4,254,015	4,490,600	5,707,748	5,886,437	5,661,408	3,787,093	3,172,817	3,752,302	2,473,888	1,616,378	2,518,500	1,303,644	1.10%	
Combined Cycle	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	494,880	416,603	645,790	99,032	0.08%	
Diesel	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	2,814,582	1,967,013	1,170,632	1,781,569	1,121,505	0.95%	
Gas Turbine	41,972	82,277	25,295	193	9,045	36,485	61,972	3,164	0	0	0	10,290	499	0	0	25,605	10,684	28,084	3,482	-	-	0.00%	
Oil Thermal	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	183,876	1,310	1,059	87,659	83,107	0.07%	
Natural Gas	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	18,791,286	18,690,077	18,877,915	19,853,783	20,547,239	21,333,789	22,354,378	19,496,927	18,675,444	17,884,120	16,668,066	14.13%	
Renewable Energy (RE)	17,692,264	18,874,230	18,308,202	20,459,304	18,837,272	20,628,003	20,190,804	17,822,798	19,844,551	20,761,602	19,902,949	19,809,655	20,963,175	21,979,459	23,188,735	23,325,925	22,044,380	21,608,904	23,770,646	24,683,504	26,278,351	22.27%	
Geothermal	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	10,249,590	9,604,598	10,308,113	11,043,694	11,070,403	10,270,077	10,435,305	10,690,804	10,756,815	10,681,422	10,424,518	10,730,183	9.09%	
Hydro	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	8,865,078	8,110,915	9,610,799	9,383,758	8,025,492	7,192,019	9,185,324	10,084,592	10,287,161	8.72%	
Biomass	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	1,040,343	1,261,016	1,164,689	1,322,130	1,408,883	1.19%	
Solar	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	1,246,082	1,372,604	1,469,550	1,822,396	2,544,005	2.16%	
Wind	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	1,041,660	1,026,450	1,269,662	1,029,869	1,308,138	1.11%	
Total Grid Generation	62,940,537	55,957,430	56,567,740	56,784,130	59,611,788	60,820,985	61,934,432	67,742,789	69,175,650	72,922,011	75,266,842	77,260,997	82,413,213	90,797,891	94,370,341	99,764,718	106,041,488	101,766,720	106,114,713	111,515,669	118,003,909	100.00%	
BESS																					14,151	20,923	56,519
Total Offgrid Generation																					1,654,491	1,768,966	1,934,988
Total Grid and Offgrid Generation																					107,769,204	113,284,634	119,938,897

- Notes:
1. Gross Power Generation data includes grid connected, embedded and off-grid generator. Gross Power Generation does not include the power generation of power plants under the Test and Commissioning Phase.
 2. BESS and Offgrid Generation separated from Grid Generation starting 2021
 3. Offgrid generation composed of NPC-SPLUG and NPP generation
 4. Gross Generation - the total amount of electric energy produced by generating units and measured at the generating terminal

Updated on 19 July 2024