

Department of Energy  
**2023 POWER STATISTICS**

Summary - Philippines

Electricity Consumption by Sector in GWh	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Residential	15,357	15,920	16,031	15,830	16,376	16,644	17,504	18,633	18,694	19,695	20,614	20,969	22,747	25,631	26,782	28,261	30,552	34,292	34,981	35,324	36,968
Commercial	11,106	11,785	12,245	12,679	13,470	14,136	14,756	16,261	16,624	17,777	18,304	18,761	20,085	21,770	22,768	24,016	25,476	20,727	21,119	24,294	26,236
Industrial	15,188	15,012	15,705	15,888	16,522	17,031	17,084	18,576	19,334	20,071	20,677	21,429	22,514	24,117	25,573	27,587	28,194	25,566	27,623	28,844	29,493
Others	1,069	1,359	1,177	1,275	1,641	1,395	1,523	1,996	1,446	1,668	1,971	2,186	2,462	2,634	2,670	2,753	2,897	2,658	3,695	2,871	3,112
<b>Electricity Sales</b>	<b>42,720</b>	<b>44,076</b>	<b>45,159</b>	<b>45,672</b>	<b>46,009</b>	<b>46,206</b>	<b>50,988</b>	<b>55,266</b>	<b>56,098</b>	<b>59,211</b>	<b>61,966</b>	<b>63,345</b>	<b>67,808</b>	<b>74,153</b>	<b>77,793</b>	<b>82,617</b>	<b>87,116</b>	<b>83,243</b>	<b>87,417</b>	<b>91,333</b>	<b>95,888</b>
Utilities Own Use	3,410	4,654	4,591	4,227	3,994	3,935	3,524	4,677	5,398	5,351	5,959	6,461	7,124	8,357	8,316	8,141	8,929	8,771	8,729	9,490	10,403
System Losses	6,810	7,228	6,817	6,885	7,608	7,680	7,542	7,800	7,680	8,360	7,741	7,455	7,481	8,288	8,262	9,007	9,994	9,742	9,968	10,693	11,793
<b>Total Electricity Consumption</b>	<b>52,941</b>	<b>55,957</b>	<b>56,568</b>	<b>56,784</b>	<b>59,612</b>	<b>60,821</b>	<b>61,934</b>	<b>67,743</b>	<b>69,176</b>	<b>72,922</b>	<b>75,266</b>	<b>77,261</b>	<b>82,413</b>	<b>90,798</b>	<b>94,370</b>	<b>99,765</b>	<b>106,041</b>	<b>101,756</b>	<b>106,115</b>	<b>111,516</b>	<b>118,004</b>

System Peak Demand in MW	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Luzon	6,149	6,323	6,443	6,466	6,643	6,674	6,928	7,656	7,552	7,889	8,305	8,717	8,928	9,726	10,054	10,876	11,344	11,103	11,640	12,113	12,550
Visayas	995	1,025	1,037	1,066	1,102	1,176	1,241	1,431	1,481	1,551	1,572	1,636	1,768	1,893	1,975	2,052	2,224	2,201	2,252	2,316	2,458
Mindanao	1,131	1,177	1,149	1,228	1,241	1,204	1,303	1,288	1,346	1,321	1,428	1,469	1,517	1,653	1,760	1,853	2,013	1,978	2,144	2,167	2,323
<b>Total Non-Coincidental Peak Demand</b>	<b>8,275</b>	<b>8,525</b>	<b>8,629</b>	<b>8,760</b>	<b>8,987</b>	<b>9,054</b>	<b>9,472</b>	<b>10,375</b>	<b>10,379</b>	<b>10,761</b>	<b>11,305</b>	<b>11,822</b>	<b>12,213</b>	<b>13,272</b>	<b>13,789</b>	<b>14,782</b>	<b>15,581</b>	<b>15,282</b>	<b>16,036</b>	<b>16,596</b>	<b>17,331</b>

Gross Power Generation per Grid in GWh	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Luzon	37,535	39,854	40,627	41,241	43,620	44,200	44,975	50,265	50,017	52,312	54,820	56,766	60,113	66,498	68,512	72,728	76,177	72,419	75,243	79,821	83,290
Visayas	8,842	9,016	8,698	8,129	8,102	8,650	8,724	9,075	10,456	11,483	11,100	11,014	12,170	12,955	14,054	14,266	16,060	15,485	16,268	16,222	18,163
Mindanao	6,564	7,087	7,243	7,414	7,890	7,972	8,235	8,403	8,703	9,127	9,347	9,481	10,130	11,345	11,804	12,770	13,905	13,852	14,604	15,473	16,551
<b>Total Gross Generation</b>	<b>52,941</b>	<b>55,957</b>	<b>56,568</b>	<b>56,784</b>	<b>59,612</b>	<b>60,821</b>	<b>61,934</b>	<b>67,743</b>	<b>69,176</b>	<b>72,922</b>	<b>75,266</b>	<b>77,261</b>	<b>82,413</b>	<b>90,798</b>	<b>94,370</b>	<b>99,765</b>	<b>106,041</b>	<b>101,756</b>	<b>106,115</b>	<b>111,516</b>	<b>118,004</b>

Gross Power Generation by Plant Type in GWh	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Coal	14,939	16,194	15,257	15,294	16,837	15,749	16,476	23,301	25,342	23,285	32,081	33,954	36,686	43,303	46,847	51,932	57,890	58,176	62,052	66,430	73,754
Oil-Based	7,170	8,504	6,141	4,865	5,148	4,868	5,381	7,101	3,399	4,254	4,491	5,708	5,886	5,661	3,787	3,173	3,752	2,474	1,616	2,519	1,304
Combined Cycle	439	738	91	239	653	513	639	1,202	124	227	247	515	276	694	405	522	728	495	417	646	99
Diesel	5,509	6,253	5,717	4,152	4,162	3,660	3,771	4,532	2,762	3,332	3,805	4,730	5,521	4,722	3,100	2,505	2,815	1,967	1,171	1,782	1,122
Gas Turbine	42	82	25	0	9	36	62	3	0	0	0	0	10	0	0	0	26	11	28	3	0
Oil Thermal	1,180	1,431	309	274	324	658	909	1,364	512	695	438	463	80	245	282	145	184	1	1	88	83
Natural Gas	13,139	12,384	16,861	16,366	18,789	19,576	19,887	19,518	20,591	19,642	18,791	18,690	18,878	19,854	20,547	21,334	22,354	19,497	19,600	17,884	16,668
Renewable Energy (RE)	17,692	18,874	18,308	20,459	18,837	20,628	20,191	17,823	19,845	20,762	19,903	19,810	20,963	21,979	23,189	23,236	22,044	21,609	23,386	24,684	26,278
Geothermal	9,822	10,282	9,902	10,465	10,215	10,723	10,324	9,929	9,942	10,250	9,605	10,308	11,044	11,070	10,270	10,435	10,691	10,757	10,016	10,425	10,730
Hydro	7,870	8,593	8,387	9,939	8,563	9,843	9,788	7,803	9,668	10,252	10,019	9,137	8,665	8,111	9,611	9,384	8,025	7,192	9,185	10,085	10,287
Biomass	0	0	0	0	0	0	14	27	115	183	212	196	367	726	1,013	1,105	1,040	1,261	1,445	1,322	1,409
Solar	0	0	2	1	1	1	1	1	1	1	1	1	139	1,097	1,201	1,249	1,246	1,373	1,470	1,822	2,544
Wind	0	0	17	53	58	61	64	62	88	75	66	152	748	975	1,094	1,153	1,042	1,026	1,270	1,030	1,308
<b>Total Gross Generation</b>	<b>52,941</b>	<b>55,957</b>	<b>56,568</b>	<b>56,784</b>	<b>59,612</b>	<b>60,821</b>	<b>61,934</b>	<b>67,743</b>	<b>69,176</b>	<b>72,922</b>	<b>75,266</b>	<b>77,261</b>	<b>82,413</b>	<b>90,798</b>	<b>94,370</b>	<b>99,765</b>	<b>106,041</b>	<b>101,756</b>	<b>106,115</b>	<b>111,516</b>	<b>118,004</b>

Installed Capacity by Plant Type in MW	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Coal	3,958	3,967	3,967	4,177	4,213	4,213	4,277	4,867	4,917	5,568	5,568	5,708	5,963	7,419	8,049	8,844	10,417	10,944	11,669	12,428	12,406
Oil Based	3,604	3,669	3,663	3,602	3,616	3,353	3,193	3,193	2,984	3,074	3,353	3,476	3,610	3,616	4,153	4,292	4,262	4,237	3,847	3,834	3,737
Natural Gas	2,763	2,763	2,763	2,763	2,834	2,831	2,831	2,861	2,861	2,862	2,862	2,862	2,862	3,431	3,447	3,453	3,453	3,453	3,453	3,732	3,732
Renewable Energy (RE)	4,799	5,149	5,226	5,261	5,277	5,284	5,309	5,437	5,391	5,521	5,541	5,898	6,330	6,958	7,079	7,227	7,399	7,617	7,914	8,264	8,417
Geothermal	1,932	1,932	1,978	1,978	1,958	1,958	1,966	1,966	1,783	1,848	1,868	1,918	1,917	1,916	1,916	1,944	1,928	1,928	1,928	1,952	1,952
Hydro	2,867	3,217	3,222	3,257	3,293	3,291	3,291	3,400	3,491	3,521	3,521	3,543	3,600	3,616	3,627	3,701	3,760	3,779	3,752	3,745	3,759
Biomass	0	0	0	0	0	0	30	38	83	119	119	131	221	233	224	258	363	447	489	611	585
Solar	0	0	1	1	1	1	1	1	1	1	1	1	23	165	765	885	896	921	1,019	1,317	1,653
Wind	0	0	25	25	25	33	33	33	33	33	33	283	427	427	427	427	427	427	443	427	427
<b>Total Installed Capacity</b>	<b>15,124</b>	<b>15,548</b>	<b>15,619</b>	<b>15,803</b>	<b>15,941</b>	<b>15,681</b>	<b>15,610</b>	<b>16,358</b>	<b>16,162</b>	<b>17,025</b>	<b>17,325</b>	<b>17,944</b>	<b>18,765</b>	<b>21,423</b>	<b>22,728</b>	<b>23,815</b>	<b>25,531</b>	<b>26,250</b>	<b>26,882</b>	<b>28,258</b>	<b>28,291</b>

Dependable Capacity by Plant Type in MW	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Coal	3,691	3,696	3,432	3,638	3,467	3,412	3,813	4,245	4,651	5,206	5,206	5,378	5,613	6,979	7,674	8,368	9,743	10,245	10,913	11,504	11,335
Oil Based	3,175	3,216	3,043	2,879	2,670																