

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
Residential	15,357	15,920	16,031	15,830	16,376	16,644	17,804	16,833	16,694	16,665	20,614	20,999	22,747	25,631	26,762	26,261	30,652	34,292
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	20,065	21,770	22,768	24,018	25,476	20,727
Industrial	16,188	15,012	15,705	15,888	16,522	17,031	17,084	16,576	16,334	20,071	20,677	21,428	22,514	24,117	25,573	27,567	28,194	26,566
Others	1,099	1,359	1,177	1,276	1,641	1,385	1,623	1,596	1,446	1,891	2,071	2,186	2,482	2,670	2,763	2,897	2,888	
Electricity Sales	42,720	44,076	45,159	45,672	46,009	46,206	50,965	55,296	56,098	59,211	61,596	63,345	67,908	74,153	77,765	82,817	87,116	83,243
Utilities Own Use	3,410	4,654	4,591	4,227	3,994	3,835	3,624	4,677	5,398	6,361	6,461	6,461	7,124	8,357	8,316	8,141	8,829	8,771
System Losses	6,610	7,228	6,617	6,895	7,608	7,660	7,542	7,800	7,880	8,380	7,741	7,455	7,481	8,286	8,262	9,007	8,994	9,742
Total	52,941	55,957	56,568	56,784	56,612	60,821	61,934	67,743	69,176	72,922	75,266	77,261	82,413	90,736	94,370	96,765	108,041	101,756

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
Luzon	37,535	39,854	40,827	41,241	43,820	44,200	44,975	50,265	50,017	52,312	54,820	56,796	60,113	66,498	68,512	72,728	76,177	72,419
Visayas	8,842	9,016	8,898	8,102	8,650	8,650	8,724	9,075	10,456	11,483	11,100	11,014	12,955	14,054	14,266	16,090	16,090	15,485
Mindanao	6,584	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	13,805	13,852
Total	52,941	55,957	56,968	56,754	59,612	60,821	61,934	67,743	69,176	72,922	75,266	77,261	82,413	90,736	94,370	96,765	108,041	101,756

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
Coal	14,839	16,194	15,257	15,284	16,637	16,749	16,476	23,301	25,342	28,285	32,061	33,054	36,686	43,303	46,847	61,832	57,690	56,176
Oil-Based	7,170	8,504	6,141	4,665	5,148	4,666	5,361	7,101	3,398	4,254	4,491	5,708	5,886	5,661	3,767	3,173	3,752	2,474
Combined Cycle	439	738	91	124	653	513	639	1,202	227	227	522	515	276	694	405	522	728	495
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
Gas Turbine	42	82	25	0	36	0	62	3	0	0	0	0	10	0	0	0	26	11
Oil Thermal	1,180	1,431	309	274	324	658	909	1,364	512	695	438	463	80	245	262	145	184	1
Natural Gas	19,139	12,384	16,861	16,366	19,676	19,887	19,618	20,591	19,642	19,642	18,891	16,890	16,878	19,854	20,547	21,334	22,354	19,497
Renewable Energy (RE)	17,692	16,874	16,306	20,456	16,837	20,628	20,191	17,623	19,845	20,762	19,903	19,810	20,863	21,979	23,189	23,326	22,044	21,609
Geothermal	9,822	10,282	9,902	10,465	10,723	10,324	9,929	9,942	10,250	9,605	10,308	11,044	11,070	10,435	10,691	10,757		
Hydro	7,870	8,593	8,367	9,939	8,563	9,843	9,798	7,803	9,698	10,252	10,019	9,137	8,665	8,111	9,611	9,384	8,025	7,192
Biomass	0	0	0	0	0	0	14	27	115	183	212	126	367	726	1,013	1,046	1,261	
Solar	0	0	2	1	1	1	1	1	1	1	1	17	139	1,097	1,201	1,249	1,246	1,373
Wind	0	0	17	53	58	61	64	68	75	69	66	152	748	975	1,094	1,153	1,026	
Total	52,941	55,957	56,968	56,754	59,612	60,821	61,934	67,743	69,176	72,922	75,266	77,261	82,413	90,736	94,370	96,765	108,041	101,756

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
Coal	3,958	3,967	3,967	4,177	4,213	4,213	4,277	4,867	4,917	5,598	5,668	5,708	5,963	7,419	8,049	8,844	10,417	10,944
Oil Based	3,604	3,669	3,663	3,902	3,616	3,363	3,193	3,193	2,994	3,074	3,363	3,476	3,610	3,616	4,163	4,292	4,262	4,237
Natural Gas	2,783	2,763	2,763	2,783	2,894	2,831	2,861	2,861	2,861	2,862	2,862	2,862	2,862	3,431	3,447	3,463	3,463	3,463
Renewable Energy (RE)	4,799	5,149	5,226	5,281	5,277	5,284	5,309	5,437	5,391	5,621	5,641	5,898	6,330	6,968	7,079	7,227	7,399	7,617
Geothermal	1,932	1,932	1,978	1,978	1,958	1,958	1,953	1,966	1,783	1,848	1,868	1,918	1,917	1,916	1,916	1,944	1,928	1,928
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	3,618	3,627	3,701	3,760	3,779
Biomass	0	0	0	0	0	0	30	36	83	119	119	131	221	233	224	258	363	447
Solar	0	0	1	1	1	1	1	1	1	1	1	23	165	765	885	896	921	1,019
Wind	0	0	25	25	25	33	33	33	33	33	33	283	427	427	427	427	427	443
Total	15,124	15,848	15,919	15,903	15,941	15,661	15,610	16,368	16,162	17,025	17,325	17,844	18,785	21,423	22,728	23,915	25,631	26,250

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
Coal	3,691	3,666	3,432	3,636	3,467	3,412	3,613	4,245	4,651	5,206	5,206	5,378	5,613	6,979	7,674	8,368	9,743	10,245
Oil Based	3,175	3,216	3,043	2,679	2,702	2,702	2,628	2,488	2,579	2,676	2,646	2,734	2,821	3,298	3,298	2,995	3,015	3,054
Natural Gas	2,703	2,703	2,703	2,703	2,703	2,682	2,700	2,766	2,770	2,780	2,780	2,780	2,780	3,291	3,291	3,298	3,298	3,298
Renewable Energy (RE)	4,835	4,178	4,417	4,419	4,639	4,372	4,278	4,413	4,477	4,539	4,569	4,789	5,325	6,005	6,264	6,992	6,691	6,825
Geothermal	1,568	1,568	1,633	1,633	1,667	1,388	1,321	1,351	1,434	1,462	1,462	1,607	1,601	1,689	1,752	1,770	1,792	1,793
Hydro	2,267	2,610	2,723	2,726	2,962	2,950	2,914	3,021	2,963	2,963	2,963	3,073	3,181	3,269	3,473	3,508	3,527	3,527
Biomass	0	0	0	0	0	0	10	20	46	78	78	81	146	157	160	182	227	285
Solar	0	0	1	1	1	1	1	1	1	1	1	125	594	700	737	740	737	737
Wind	0	0	9	9	9	33	33	33	33	33	33	103	379	383	383	427	427	443
Total	13,404	13,792	13,680	13,639	13,479	13,049	13,310	13,902	14,477	15,066	15,371	16,633	18,432	19,667	20,515	21,241	22,736	23,410

Notes: Independent Power Producers' (IPPs) generation included in the utility
 Gross Power Generation data includes grid connected, embedded and off-grid generator.
 2020 capacity mix includes off-grid capacities
 Installed Capacity - nameplate capacity; full-load continuous gross capacity of a unit under specified conditions, as calculated from the electric generator nameplate based on the rated power factor.
 Dependable Capacity - maximum capacity when modified for ambient limitations for a specified period of time, such as a month or a season.
 Gross Power Generation - the total amount of electric energy produced by generating units and measured at the generating terminal