



DEPARTMENT OF ENERGY

LIST OF EXISTING POWER PLANTS (GRID & OFF-GRID CONNECTED)

AS OF DECEMBER 2022

CAPACITY MIX, MW
Installed and Dependable Capacity

FUEL TYPE	LUZON			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	8,763	8,183	43.3	48.9
Oil Based	2,801	1,993	13.8	11.9
<i>Diesel</i>	1,384	1,148	6.8	6.9
<i>Oil Thermal</i>	650	305	3.2	1.8
<i>Gas Turbine</i>	767	540	3.8	3.2
Natural Gas	3,731	2,081	18.4	12.4
Renewable Energy	4,965	4,482	24.5	26.8
<i>Geothermal</i>	865	769	4.3	4.6
<i>Hydro</i>	2,572	2,444	12.7	14.6
<i>Biomass</i>	206	141	1.0	0.8
<i>Solar</i>	969	775	4.8	4.6
<i>Wind</i>	353	353	1.7	2.1
TOTAL	20,260	16,739	100.0	100.0
Energy Storage System (ESS)	73	73		
Battery ESS	73	73		

FUEL TYPE	VISAYAS			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	1,412	1,293	35.0	38.1
Oil Based	711	573	17.6	16.9
<i>Diesel</i>	711	573	17.6	16.9
<i>Gas Turbine</i>	0	0	0.0	0.0
Natural Gas	1	0	0.0	0.0
Renewable Energy	1,914	1,532	47.4	45.1
<i>Geothermal</i>	975	888	24.1	26.1
<i>Hydro</i>	36	26	0.9	0.8
<i>Biomass</i>	326	213	8.1	6.3
<i>Solar</i>	487	331	12.1	9.8
<i>Wind</i>	90	75	2.2	2.2
TOTAL	4,039	3,398	100.0	100.0
Energy Storage System (ESS)	22	22		
Battery ESS	22	22		

FUEL TYPE	MINDANAO			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	2,268	2,041	49.0	50.9
Oil Based	924	777	19.9	19.4
<i>Diesel</i>	924	777	19.9	19.4
Natural Gas	0	0	0.0	0.0
Renewable Energy	1,442	1,191	31.1	29.7
<i>Geothermal</i>	112	106	2.4	2.7
<i>Hydro</i>	1,167	1,003	25.2	25.0
<i>Biomass</i>	79	29	1.7	0.7
<i>Solar</i>	84	52	1.8	1.3
<i>Wind</i>	0	0	0.0	0.0
TOTAL	4,633	4,009	100.0	100.0
Energy Storage System (ESS)	49	49		
Battery ESS				
Hybrid (Diesel-Battery System)	49	49		



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AS OF DECEMBER 2022****CAPACITY MIX, MW
Installed and Dependable Capacity**

FUEL TYPE	PHILIPPINES			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	12,443	11,517	43.0	47.7
Oil Based	4,436	3,343	15.3	13.8
<i>Diesel</i>	3,019	2,498	10.4	10.3
<i>Oil Thermal</i>	650	305	2.2	1.3
<i>Gas Turbine</i>	767	540	2.6	2.2
Natural Gas	3,732	2,081	12.9	8.6
Renewable Energy	8,321	7,204	28.8	29.8
<i>Geothermal</i>	1,952	1,763	6.7	7.3
<i>Hydro</i>	3,775	3,473	13.0	14.4
<i>Biomass</i>	611	382	2.1	1.6
<i>Solar</i>	1,540	1,158	5.3	4.8
<i>Wind</i>	443	428	1.5	1.8
TOTAL	28,932	24,146	100.0	100.0
Energy Storage System (ESS)	145	145		
Battery ESS	96	96		
Hybrid (Diesel-Battery System)	49	49		

Note:

Released as of 24 April 2023

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.

GRID	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
LUZON	20,260	16,739	70.0%	69.3%
VISAYAS	4,039	3,398	14.0%	14.1%
MINDANAO	4,633	4,009	16.0%	16.6%
TOTAL	28,932	24,146	100.0%	100.0%