



DEPARTMENT OF ENERGY
LIST OF EXISTING POWER PLANTS (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	8,748	8,170	44.3	50.1
Oil Based	2,357	1,639	11.9	10.0
Diesel	940	794	4.8	4.9
Oil Thermal	650	305	3.3	1.9
Gas Turbine	767	540	3.9	3.3
Natural Gas	3,731	2,081	18.9	12.8
Renewable Energy	4,909	4,429	24.9	27.1
Geothermal	865	769	4.4	4.7
Hydro	2,542	2,416	12.9	14.8
Biomass	206	141	1.0	0.9
Solar	959	767	4.9	4.7
Wind	337	337	1.7	2.1
TOTAL	19,744	16,320	100.0	100.0
Energy Storage System (ESS)	72	72		
Battery ESS	72	72		

FUEL TYPE	VISAYAS			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	1,412	1,293	35.6	38.7
Oil Based	644	514	16.2	15.4
Diesel	644	514	16.2	15.4
Gas Turbine	0	0	0.0	0.0
Natural Gas	1	0	0.0	0.0
Renewable Energy	1,914	1,532	48.2	45.9
Geothermal	975	888	24.5	26.6
Hydro	36	26	0.9	0.8
Biomass	326	213	8.2	6.4
Solar	487	331	12.3	9.9
Wind	90	75	2.3	2.2
TOTAL	3,972	3,340	100.0	100.0
Energy Storage System (ESS)	35	35		
Battery ESS	35	35		

FUEL TYPE	MINDANAO			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	2,268	2,041	49.9	51.8
Oil Based	833	707	18.3	17.9
Diesel	833	707	18.3	17.9
Natural Gas	0	0	0.0	0.0
Renewable Energy	1,441	1,190	31.7	30.2
Geothermal	112	106	2.5	2.7
Hydro	1,166	1,003	25.7	25.5
Biomass	79	29	1.7	0.7
Solar	84	52	1.8	1.3
Wind	0	0	0.0	0.0
TOTAL	4,542	3,938	100.0	100.0
Energy Storage System (ESS)	49	49		
Battery ESS				
Hybrid (Diesel-Battery System)	49	49		

FUEL TYPE	PHILIPPINES			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	12,428	11,504	44.0	48.8
Oil Based	3,834	2,860	13.6	12.1
Natural Gas	3,732	2,081	13.2	8.8
Renewable Energy	8,264	7,151	29.2	30.3
Geothermal	1,952	1,763	6.9	7.5
Hydro	3,745	3,444	13.3	14.6
Biomass	611	382	2.2	1.6
Solar	1,530	1,150	5.4	4.9
Wind	427	412	1.5	1.7
TOTAL	28,258	23,598	100.0	100.0
Energy Storage System (ESS)	156	156		
Battery ESS	107	107		
Hybrid (Diesel-Battery System)	49	49		

Note:

Excluding off-grid generators

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	19,744	16,320	69.9	69.2
VISAYAS	3,972	3,340	14.1	14.2
MINDANAO	4,542	3,938	16.1	16.7
TOTAL	28,258	23,598	100.0	100.0