



DEPARTMENT OF ENERGY  
**LIST OF EXISTING POWER PLANTS (GRID-CONNECTED)**  
**AS OF NOVEMBER 2022**

**CAPACITY MIX, MW**  
**Installed and Dependable Capacity**

FUEL TYPE	LUZON			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	8,759	8,192	44.3	49.9
Oil Based	2,369	1,611	12.0	9.8
Diesel	971	766	4.9	4.7
Oil Thermal	650	305	3.3	1.9
Gas Turbine	748	540	3.8	3.3
Natural Gas	3,731	2,172	18.9	13.2
Renewable Energy	4,909	4,429	24.8	27.0
Geothermal	865	769	4.4	4.7
Hydro	2,542	2,416	12.9	14.7
Biomass	206	141	1.0	0.9
Solar	959	767	4.8	4.7
Wind	337	337	1.7	2.1
<b>TOTAL</b>	<b>19,767</b>	<b>16,404</b>	<b>100.0</b>	<b>100.0</b>
Energy Storage System (ESS)	70	70		
Battery ESS	70	70		

FUEL TYPE	VISAYAS			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	1,414.45	1,330	34.8	38.2
Oil Based	742.90	567	18.3	16.3
Diesel	687.90	567	16.9	16.3
Gas Turbine	55.00	0	1.4	0.0
Natural Gas	1.04	0	0.0	0.0
Renewable Energy	1,905.48	1,583	46.9	45.5
Geothermal	955.06	881	23.5	25.3
Hydro	36.99	37	0.9	1.1
Biomass	318.14	171	7.8	4.9
Solar	505.28	404	12.4	11.6
Wind	90.00	90	2.2	2.6
<b>TOTAL</b>	<b>4,064</b>	<b>3,480</b>	<b>100.0</b>	<b>100.0</b>
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	50.1	50.9
Oil Based	819	759	18.1	18.9
Diesel	819	759	18.1	18.9
Natural Gas	0	0	0.0	0.0
Renewable Energy	1,441	1,210	31.8	30.2
Geothermal	112	107	2.5	2.7
Hydro	1,166	1,008	25.8	25.1
Biomass	79	29	1.7	0.7
Solar	84	67	1.8	1.7
Wind	0	0	0.0	0.0
<b>TOTAL</b>	<b>4,528</b>	<b>4,010</b>	<b>100.0</b>	<b>100.0</b>
Energy Storage System (ESS)	49	49		
Hybrid (Diesel-Battery System)	49	49		

FUEL TYPE	PHILIPPINES			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	12,441	11,563	43.9	48.4
Oil Based	3,931	2,936	13.9	12.3
Natural Gas	3,732	2,172	13.2	9.1
Renewable Energy	8,255	7,223	29.1	30.2
Geothermal	1,932	1,757	6.8	7.4
Hydro	3,745	3,460	13.2	14.5
Biomass	603	341	2.1	1.4
Solar	1,548	1,238	5.5	5.2
Wind	427	427	1.5	1.8
<b>TOTAL</b>	<b>28,358</b>	<b>23,894</b>	<b>100.0</b>	<b>100.0</b>
Energy Storage System (ESS)	191	191		
Battery ESS	142	142		
Hybrid (Diesel-Battery System)	49	49		

**Note:**

Excluding off-grid generators  
Released as of 30 November 2022

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	19,767	16,404	69.7	68.7
VISAYAS	4,064	3,480	14.3	14.6
MINDANAO	4,528	4,010	16.0	16.8
<b>TOTAL</b>	<b>28,358</b>	<b>23,894</b>	<b>100.0</b>	<b>100.0</b>