



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

CAPACITY MIX, MW
Installed and Dependable Capacity

FUEL TYPE	LUZON			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	8,034	7,524	42.3	48.3
Oil Based	2,369	1,491	12.5	9.6
Diesel	971	766	5.1	4.9
Oil Thermal	650	185	3.4	1.2
Gas Turbine	748	540	3.9	3.5
Natural Gas	3,731	2,172	19.6	13.9
Renewable Energy	4,871	4,399	25.6	28.2
Geothermal	865	769	4.5	4.9
Hydro	2,539	2,413	13.4	15.5
Biomass	206	141	1.1	0.9
Solar	924	739	4.9	4.7
Wind	337	337	1.8	2.2
TOTAL	19,004	15,586	100.0	100.0
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	34.9	38.4
Oil Based	742.90	567	18.4	16.4
Diesel	687.90	567	17.0	16.4
Gas Turbine	55.00	0	1.4	0.0
Natural Gas	1.04	0	0.0	0.0
Renewable Energy	1,889.55	1,567	46.7	45.2
Geothermal	955.06	881	23.6	25.4
Hydro	21.06	21	0.5	0.6
Biomass	318.14	171	7.9	4.9
Solar	505.28	404	12.5	11.7
Wind	90.00	90	2.2	2.6
TOTAL	4,048	3,464	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	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	1,440	1,209	31.8	30.2
Geothermal	112	107	2.5	2.7
Hydro	1,165	1,007	25.7	25.1
Biomass	79	29	1.7	0.7
Solar	84	67	1.8	1.7
Wind	0	0	0.0	0.0
TOTAL	4,527	4,009	100.0	100.0
Energy Storage System (ESS)	0	0		
Battery ESS	0	0		

FUEL TYPE	PHILIPPINES			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	11,716	10,895	42.5	47.2
Oil Based	3,931	2,816	14.3	12.2
Natural Gas	3,732	2,172	13.5	9.4
Renewable Energy	8,200	7,175	29.7	31.1
Geothermal	1,932	1,757	7.0	7.6
Hydro	3,725	3,440	13.5	14.9
Biomass	603	341	2.2	1.5
Solar	1,513	1,210	5.5	5.2
Wind	427	427	1.5	1.9
TOTAL	27,579	23,059	100.0	100.0
Energy Storage System (ESS)	93	93		
Battery ESS	93	93		

Note:

Excluding off-grid generators

Released as of 30 September 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	19,004	15,586	68.9	67.6
VISAYAS	4,048	3,464	14.7	15.0
MINDANAO	4,527	4,009	16.4	17.4
TOTAL	27,579	23,059	100.0	100.0