



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

CAPACITY MIX, MW
 Installed and Dependable Capacity

FUEL TYPE	LUZON			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	8,005	7,519	42.7	48.3
Oil Based	2,379	1,497	12.7	9.6
Diesel	981	772	5.2	5.0
Oil Thermal	650	185	3.5	1.2
Gas Turbine	748	540	4.0	3.5
Natural Gas	3,452	2,086	18.4	13.4
Renewable Energy	4,902	4,462	26.2	28.7
Geothermal	865	769	4.6	4.9
Hydro	2,569	2,475	13.7	15.9
Biomass	207	143	1.1	0.9
Solar	924	739	4.9	4.7
Wind	337	337	1.8	2.2
TOTAL	18,738	15,564	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	1,399.45	1,349	35.9	39.5
Oil Based	742.90	567	19.0	16.6
Diesel	687.90	567	17.6	16.6
Gas Turbine	55.00	0	1.4	0.0
Natural Gas	1.04	0	0.0	0.0
Renewable Energy	1,757.04	1,503	45.0	44.0
Geothermal	955.06	881	24.5	25.8
Hydro	20.63	20	0.5	0.6
Biomass	215.56	131	5.5	3.8
Solar	475.79	381	12.2	11.1
Wind	90.00	90	2.3	2.6
TOTAL	3,900	3,419	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	2,264	2,041	50.1	51.2
Oil Based	811	734	18.0	18.4
Diesel	811	734	18.0	18.4
Natural Gas	0	0	0.0	0.0
Renewable Energy	1,439	1,209	31.9	30.4
Geothermal	112	107	2.5	2.7
Hydro	1,165	1,007	25.8	25.3
Biomass	79	29	1.7	0.7
Solar	84	67	1.9	1.7
Wind	0	0	0.0	0.0
TOTAL	4,515	3,985	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	11,669	10,909	43.0	47.5
Oil Based	3,933	2,798	14.5	12.2
Natural Gas	3,453	2,086	12.7	9.1
Renewable Energy	8,098	7,175	29.8	31.2
Geothermal	1,932	1,757	7.1	7.6
Hydro	3,754	3,502	13.8	15.2
Biomass	501	303	1.8	1.3
Solar	1,484	1,187	5.5	5.2
Wind	427	427	1.6	1.9
TOTAL	27,153	22,968	100.0	100.0
Energy Storage System (ESS)	93	93		
Battery ESS	93	93		

Note:

Excluding off-grid generators

Released as of 31 August 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	18,738	15,564	69.0	67.8
VISAYAS	3,900	3,419	14.4	14.9
MINDANAO	4,515	3,985	16.6	17.3
TOTAL	27,153	22,968	100.0	100.0