



DEPARTMENT OF ENERGY

**LIST OF EXISTING POWER PLANTS (GRID & OFF-GRID CONNECTED)  
AS OF DECEMBER 2020**

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

FUEL TYPE	LUZON			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	7,280	6,855	40.8	42.8
Oil Based	2,642	1,748	14.8	10.9
<i>Diesel</i>	1,244	980	7.0	6.1
<i>Oil Thermal</i>	650	150	3.6	0.9
<i>Gas Turbine</i>	748	618	4.2	3.9
Natural Gas	3,452	3,286	19.3	20.5
Renewable Energy	4,466	4,121	25.0	25.7
<i>Geothermal</i>	865	769	4.8	4.8
<i>Hydro</i>	2,593	2,499	14.5	15.6
<i>Biomass</i>	195	131	1.1	0.8
<i>Solar</i>	460	369	2.6	2.3
<i>Wind</i>	353	353	2.0	2.2
<b>TOTAL</b>	<b>17,840</b>	<b>16,010</b>	<b>100.0</b>	<b>100.0</b>
BESS	11	11		

FUEL TYPE	VISAYAS			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	1,399	1,349	36.2	40.1
Oil Based	705	516	18.2	15.3
<i>Diesel</i>	650	516	16.8	15.3
<i>Gas Turbine</i>	55	0	1.4	0.0
Natural Gas	1	0	0.0	0.0
Renewable Energy	1,757	1,503	45.5	44.6
<i>Geothermal</i>	955	881	24.7	26.2
<i>Hydro</i>	21	20	0.5	0.6
<i>Biomass</i>	216	131	5.6	3.9
<i>Solar</i>	476	381	12.3	11.3
<i>Wind</i>	90	90	2.3	2.7
<b>TOTAL</b>	<b>3,863</b>	<b>3,369</b>	<b>100.0</b>	<b>100.0</b>



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

FUEL TYPE	MINDANAO			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	2,264	2,041	49.4	50.6
Oil Based	889	790	19.4	19.6
<i>Diesel</i>	889	790	19.4	19.6
Natural Gas	0	0	0.0	0.0
Renewable Energy	1,430	1,201	31.2	29.8
<i>Geothermal</i>	108	103	2.4	2.6
<i>Hydro</i>	1,165	1,007	25.4	25.0
<i>Biomass</i>	73	23	1.6	0.6
<i>Solar</i>	84	67	1.8	1.7
<i>Wind</i>	0	0	0.0	0.0
<b>TOTAL</b>	<b>4,584</b>	<b>4,031</b>	<b>100.0</b>	<b>100.0</b>

FUEL TYPE	PHILIPPINES			
	Capacity (MW)		Percent Share (%)	
	Installed	Dependable	Installed	Dependable
Coal	10,944	10,245	41.6	43.8
Oil Based	4,237	3,054	16.1	13.0
<i>Diesel</i>	2,784	2,286	10.6	9.8
<i>Oil Thermal</i>	650	150	2.5	0.6
<i>Gas Turbine</i>	803	618	3.1	2.6
Natural Gas	3,453	3,286	13.1	14.0
Renewable Energy	7,653	6,825	29.1	29.2
<i>Geothermal</i>	1,928	1,753	7.3	7.5
<i>Hydro</i>	3,779	3,527	14.4	15.1
<i>Biomass</i>	483	285	1.8	1.2
<i>Solar</i>	1,019	817	3.9	3.5
<i>Wind</i>	443	443	1.7	1.9
<b>TOTAL</b>	<b>26,286</b>	<b>23,410</b>	<b>100.0</b>	<b>100.0</b>
BESS	11	11		

**Note:**

Released as of 28 March 2021

*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	17,840	16,010	67.9%	68.4%
VISAYAS	3,863	3,369	14.7%	14.4%
MINDANAO	4,584	4,031	17.4%	17.2%
<b>TOTAL</b>	<b>26,286</b>	<b>23,410</b>	<b>100.0%</b>	<b>100.0%</b>