



DEPARTMENT OF ENERGY

LIST OF EXISTING POWER PLANTS (GRID & OFF-GRID CONNECTED) AS OF DECEMBER 2021

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

| FUEL TYPE | LUZON | | | |
|--------------------|---------------|---------------|-------------------|--------------|
| | Capacity (MW) | | Percent Share (%) | |
| | Installed | Dependable | Installed | Dependable |
| Coal | 8,020 | 7,536 | 42.1 | 44.5 |
| Oil Based | 2,822 | 1,769 | 14.8 | 10.4 |
| <i>Diesel</i> | 1,424 | 1,151 | 7.5 | 6.8 |
| <i>Oil Thermal</i> | 650 | 0 | 3.4 | 0.0 |
| <i>Gas Turbine</i> | 748 | 618 | 3.9 | 3.6 |
| Natural Gas | 3,452 | 3,286 | 18.1 | 19.4 |
| Renewable Energy | 4,773 | 4,346 | 25.0 | 25.7 |
| <i>Geothermal</i> | 865 | 769 | 4.5 | 4.5 |
| <i>Hydro</i> | 2,595 | 2,500 | 13.6 | 14.8 |
| <i>Biomass</i> | 195 | 131 | 1.0 | 0.8 |
| <i>Solar</i> | 765 | 593 | 4.0 | 3.5 |
| <i>Wind</i> | 353 | 353 | 1.9 | 2.1 |
| TOTAL | 19,067 | 16,937 | 100.0 | 100.0 |
| BESS | 11 | 11 | | |

| FUEL TYPE | VISAYAS | | | |
|--------------------|---------------|--------------|-------------------|--------------|
| | Capacity (MW) | | Percent Share (%) | |
| | Installed | Dependable | Installed | Dependable |
| Coal | 1,399 | 1,349 | 36.3 | 40.1 |
| Oil Based | 702 | 515 | 18.2 | 15.3 |
| <i>Diesel</i> | 647 | 515 | 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 |
| TOTAL | 3,860 | 3,368 | 100.0 | 100.0 |



CAPACITY MIX, MW
Installed and Dependable Capacity

| FUEL TYPE | MINDANAO | | | |
|-------------------|---------------|--------------|-------------------|--------------|
| | Capacity (MW) | | Percent Share (%) | |
| | Installed | Dependable | Installed | Dependable |
| Coal | 2,264 | 2,041 | 49.3 | 50.5 |
| Oil Based | 892 | 798 | 19.4 | 19.7 |
| <i>Diesel</i> | 892 | 798 | 19.4 | 19.7 |
| Natural Gas | 0 | 0 | 0.0 | 0.0 |
| Renewable Energy | 1,436 | 1,206 | 31.3 | 29.8 |
| <i>Geothermal</i> | 108 | 103 | 2.4 | 2.6 |
| <i>Hydro</i> | 1,165 | 1,007 | 25.4 | 24.9 |
| <i>Biomass</i> | 79 | 29 | 1.7 | 0.7 |
| <i>Solar</i> | 84 | 67 | 1.8 | 1.7 |
| <i>Wind</i> | 0 | 0 | 0.0 | 0.0 |
| TOTAL | 4,592 | 4,045 | 100.0 | 100.0 |

| FUEL TYPE | PHILIPPINES | | | |
|--------------------|---------------|---------------|-------------------|--------------|
| | Capacity (MW) | | Percent Share (%) | |
| | Installed | Dependable | Installed | Dependable |
| Coal | 11,684 | 10,927 | 42.5 | 44.9 |
| Oil Based | 4,417 | 3,082 | 16.1 | 12.7 |
| <i>Diesel</i> | 2,964 | 2,464 | 10.8 | 10.1 |
| <i>Oil Thermal</i> | 650 | 0 | 2.4 | 0.0 |
| <i>Gas Turbine</i> | 803 | 618 | 2.9 | 2.5 |
| Natural Gas | 3,453 | 3,286 | 12.5 | 13.5 |
| Renewable Energy | 7,965 | 7,055 | 28.9 | 29.0 |
| <i>Geothermal</i> | 1,928 | 1,753 | 7.0 | 7.2 |
| <i>Hydro</i> | 3,781 | 3,527 | 13.7 | 14.5 |
| <i>Biomass</i> | 489 | 291 | 1.8 | 1.2 |
| <i>Solar</i> | 1,324 | 1,041 | 4.8 | 4.3 |
| <i>Wind</i> | 443 | 443 | 1.6 | 1.8 |
| TOTAL | 27,519 | 24,349 | 100.0 | 100.0 |
| BEES | 11 | 11 | | |

Note:

Released as of December 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 | 19,067 | 16,937 | 69.3% | 69.6% |
| VISAYAS | 3,860 | 3,368 | 14.0% | 13.8% |
| MINDANAO | 4,592 | 4,045 | 16.7% | 16.6% |
| TOTAL | 27,519 | 24,349 | 100.0% | 100.0% |