

Philippines • Renewable energy • Geothermal, Hydrogen, Solar, Wind

Gross electricity generation from renewable sources by 2021, TWh (%)



Total: 23.30 (100)

Source: Renewable Energy Statistics 2023 © IRENA
* excluding pumped storage

Key solar PV power plants over 25.0 MWeI, MWeI:

- 1 Tarlac, 150.0
- 2 Cadiz, Helios SEC, 132.5
- 3 Calatagan, 63.3
- 4 Toledo City, FTSEC, 60.0
- 5 SaCaSun (San Carlos), 59.0
- 6 Palo, SEPALCO, 49.8
- 7 ISLASOL 2 (Manapla), 48.0
- 8 ISLASOL 1 (La Carlota), 32.0
- 9 SaCaSol (San Carlos), 45.0
- 10 Rosario (CEZ), 41.3
- 11 Ormoc, Soleq, 30.4
- 12 Digos City, 28.6
- 13 Silay City, 25.0

Key wind farms over 1.0 MW, MW:

- 1 Burgos, 150.0
- 2 Caparispisan, 81.0
- 3 Piliilla (Rizal), 54.0
- 4 San Lorenzo, 54.0
- 5 Puerto Galera (Mindoro), 48.0
- 6 Nabas, 36.0
- 7 Bangui, 33.0

Key Compressed Hydrogen Plants:

- 1 Tanuan, Taiyo Nippon Sanso Philippines

Combinated type geothermal power plants over 1.0 MWeI, MWeI:

- 1 Makiling-Banahaw (Mak-Ban), 448.8
- 2 Upper Mahiao, 125.0
- 3 Mindanao 1-2, 106.0

Single flash type geothermal power plants over 1.0 MWeI, MWeI:

- 1 Tiwi, 234.0
- 2 Malitbog, 232.5
- 3 Palinpinon 1-2, 192.5
- 4 Mahanagdong, 180.0
- 5 Bacon-Manito (BacMan), 150.0
- 6 Leyte Optimization, 50.9
- 7 Nasulo, 49.4
- 8 Maibarara, 32.0

Double flash type geothermal power plants over 1.0 MWeI, MWeI:

- 1 Tongonan, 112.5

0.0 kWh/m²/d Global Horizontal Irradiation (GHI)
0.0 m/s Wind speed

High activity areas:

The most common solar GHI intensity is 5.2 - 5.6 kWh/m² per day, distributed in the northwest part of country, Luzon island and in the southwest part of country, Mindanao island.

The most common wind speed is over 8.0 m/s at 50 m are distributed in the northern and western parts of country, between Luzon and Visayas islands group.

Source: Energydata.info

