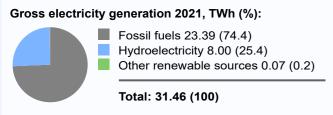
Nigeria • Electricity and Renewable energy

< 4.0

4.0 - 5.0

Jalingo



Source: Based on the U.S. Energy Information Administration data (Sep 2023).

- 330 kV line in service 132 kV line in service
- National grid 330 kV of other power plants, grid connection points, substations
- National grid 132 kV of other power plants, grid connection points, substations
- Border crossing

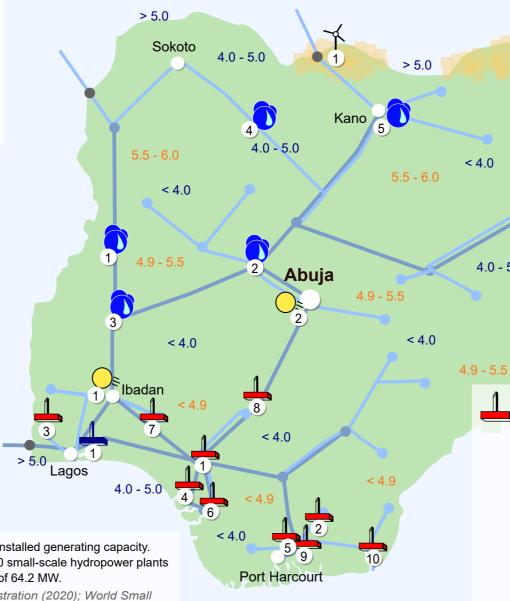


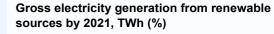
- **1** Kainji, 760
- 2 Shiroro, 600
- **3** Jebba, 540
- 4 Zamfara, 100
- 5 Kano. 100*

^{*} under construction



1 Egbin, 1320





Bioenergy 0.06 (0.7) Hydropower 9.15 (98.2) Solar PV energy 0.10 (1.1)

Total: 9.32 (100)

Source: Renewable Energy Statistics 2023 © IRENA



> 5.0

Maiduguri

5.5 - 6.0

< 4.0

4.0 - 5.0

< 4.0

< 4.0

Gas power plants

over 500 MW, MW:

3 Olorunsogo 1-2, 1054

1 Azura, 1500* 2 Alaoji, 1074

4 Sapele, 990

5 Taleveras Group

Afam II-IV-V. 962

6 Delta (Ughelli), 958

7 Omotosho 1-2, 936

8 Geregu 1-2, 855

10 Calabar, 563

* under construction

9 Shell Afam VI, 650

Solar PV power plants over 1 MWe. MWe:

- 1 University of Ibadan Solar Project, 10.0
- 2 Usman Dam WTP. 1.2



Wind power plants over 1 MW, MW:

1 Katsina, 10

0.0 kWh/m²/d Global

Horizontal Irradiation GHI)

0.0 m/s

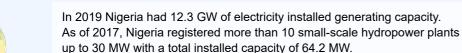
Wind speed

High activity areas:

The most common solar GHI intensity is over 6.0 kWh/m² per day, distributed in northern part of country, in the borderline with Niger.

The most common wind speed is over 5.0 m/s per year at 50 m are distributed in northern part of the country, along the borderline with Niger, and in southwestern part with Benin.

Source: Energydata.info



Sources: U.S. Energy Information Administration (2020); World Small Hydropower Development Report 2019.

