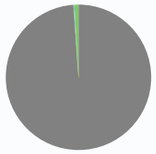
Algeria • Electricity and Renewable energy

Gross electricity generation 2021, TWh (%):



- Fossil fuels 76.62 (98.8)
- Hydroelectricity 0.05 (0.1)
- Other renewable sources 0.8 (1.1)

Total: 77.53 (100)

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

- 400 kV line in service
- 220 kV line in service
- National grid 400 kV of other power plants, grid connection points, substations
- National grid 220 kV of other power plants, grid connection points, substations
- Border crossing

Combined power plants over 300 MW, MW:

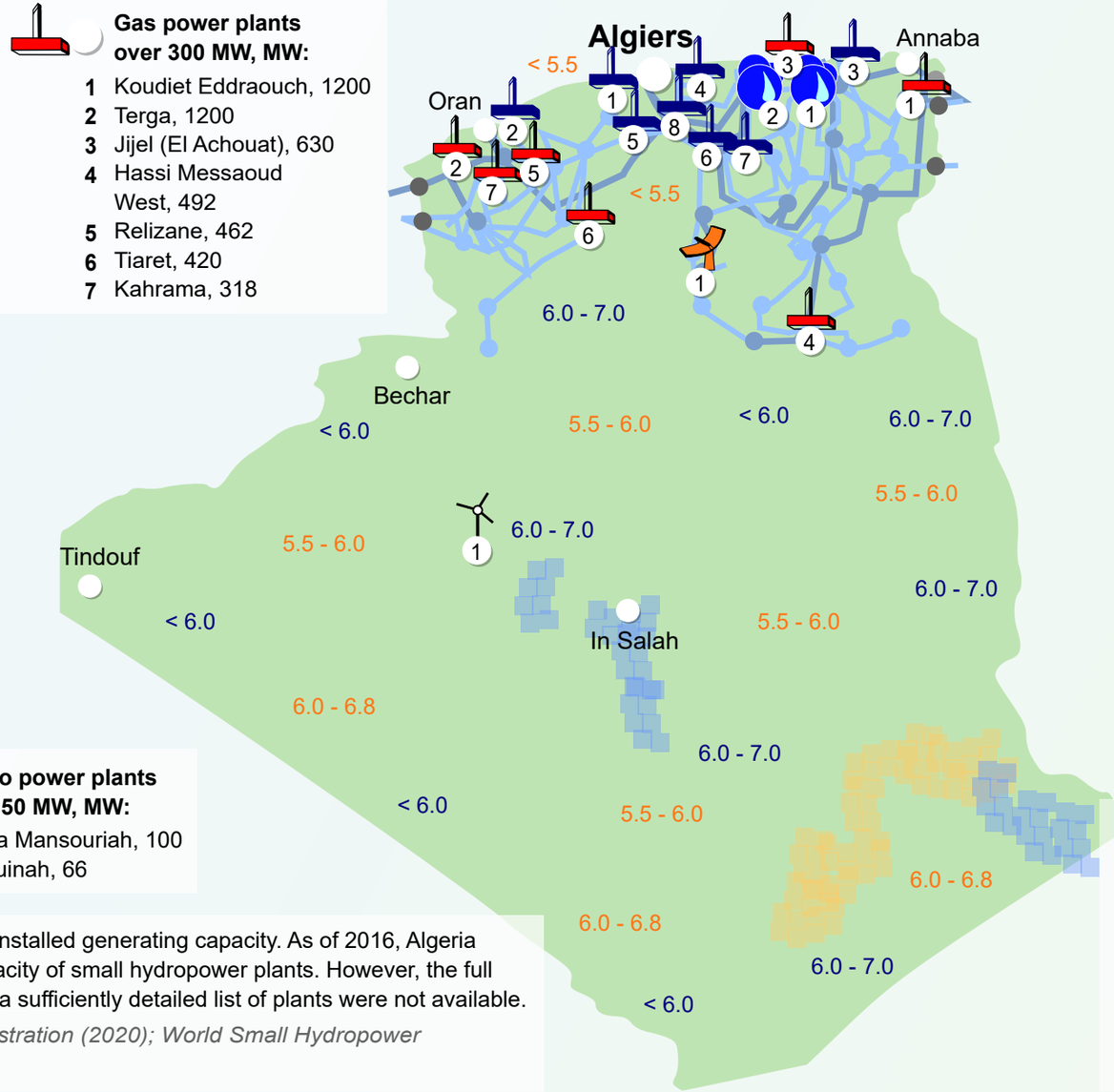
1. Hadjret En-Nouss, 1260
2. Marsat El Hadjadj, 1040
3. Skikda, 880
4. Ras Djinet, 672
5. L'Arbaa (Blida), 560
6. Berrouaghia (Medea), 500
7. M'Sila, 500
8. Hamma Phase II, 418

Gas power plants over 300 MW, MW:

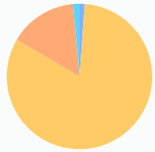
1. Koudiet Eddraouch, 1200
2. Terga, 1200
3. Jijel (El Achouat), 630
4. Hassi Messaoud West, 492
5. Relizane, 462
6. Tiaret, 420
7. Kahrama, 318

Hydro power plants over 50 MW, MW:

1. Ziama Mansouriah, 100
2. Darguinah, 66



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



- Hydropower 0.01 (1.2)
- Solar PV energy 0.64 (82.3)
- CSP energy 0.12 (15.1)
- Wind energy 0.01 (1.4)

Total: 0.78 (100)

Source: Renewable Energy Statistics 2023 © IRENA

CSP Parabolic type plants over 1 MW, MW:

1. ISCC Hassi R'mel, 25.0

Wind power plants over 1 MW, MW:

1. Kabertene, 10.0

0.0 kWh/m²/d — Direct Normal Irradiation (DNI)

0.0 m/s — Wind speed

High activity areas:

The most common solar DNI intensity is 6.8 - 7.4 kWh/m2 per day, distributed in southeastern part of country, between provinces of Tamanghasset and Illizi.

The most common wind speed is 7.0 - 8.0 m/s per year at 50 m are distributed in central and southeastern parts of country, between provinces of Tamanghasset and Illizi.

Source: Energydata.info

In 2019 Algeria had 21.2 GW of electricity installed generating capacity. As of 2016, Algeria had a total of about 42.1 MW installed capacity of small hydropower plants. However, the full installed capacity can't be confirmed since a sufficiently detailed list of plants were not available.

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