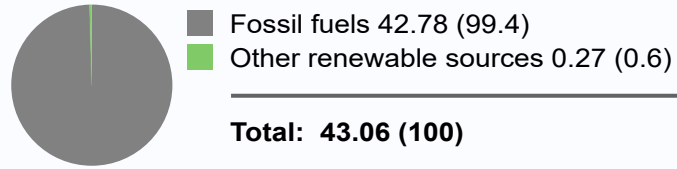


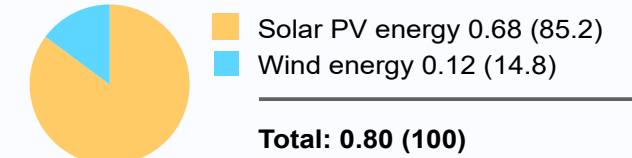
Oman • Electricity and Renewable energy

Gross electricity generation 2022, TWh (%):



Source: Based on the U.S. Energy Information Administration data (Mar 2024).

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



Source: Renewable Energy Statistics 2023 © IRENA

Natural gas power plants over 100 MW, MW:

- 1 Sohar 1-3, 3039
- 2 Sur, 2000
- 3 Barka 1-3, 1849
- 4 Ibri, 1509
- 5 Salalah 1-2, 890
- 6 Rusail, 694
- 7 Al Kamil, 285
- 8 Manah, 270

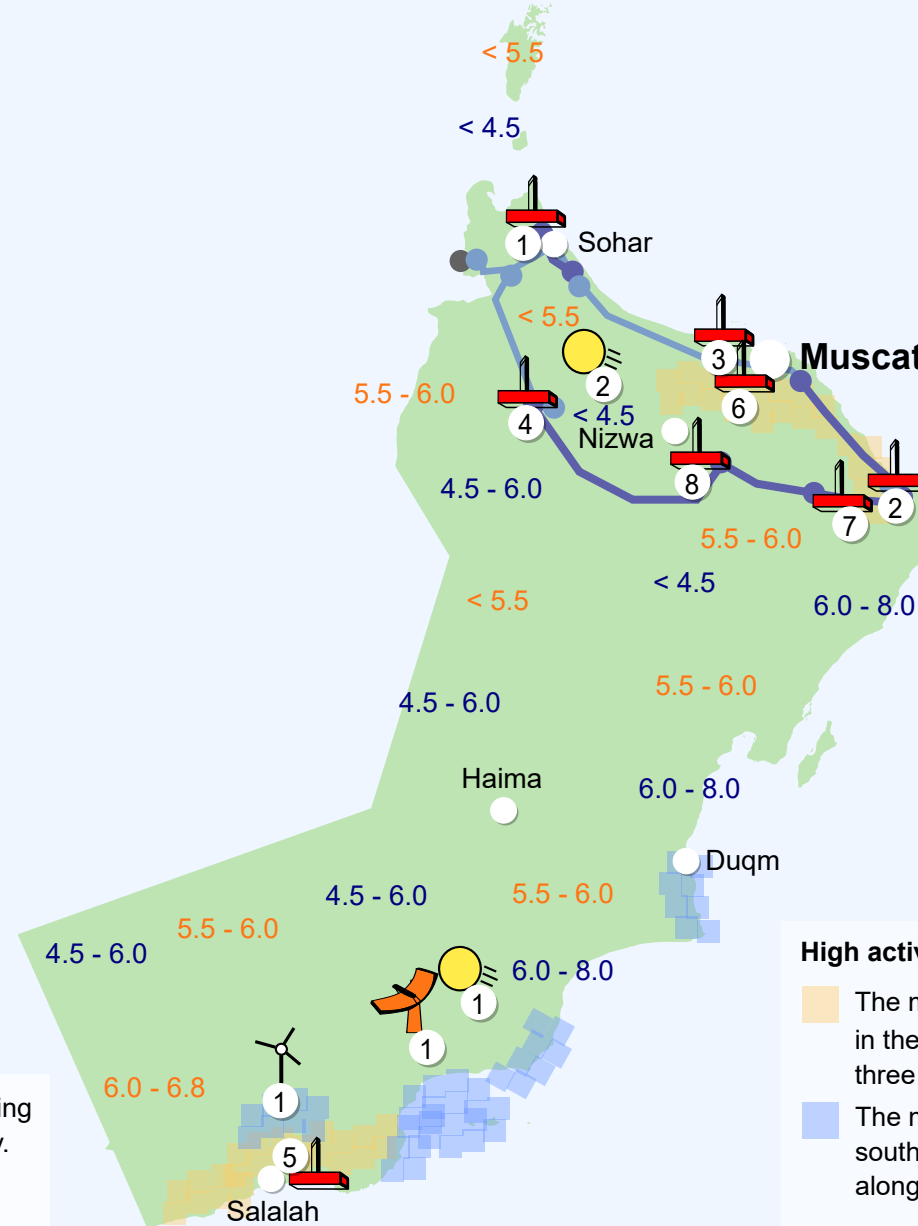
- 400 kV lines in service
- 220 kV lines in service
- National grid 400 kV of other power plants, grid connection points, substations
- National grid 220 kV of other power plants, grid connection points, substations
- Border crossing



In 2019 Oman had 8.9 GW of electricity installed generating capacity. Oman doesn't have hydropower energy industry.

Sources: U.S. Energy Information Administration (2020); Wikipedia.

www.aenert.com



Key solar PV power plants over 1.0 MWeI, MWeI:

- 1 Amin, 105.0
- 2 Ibri 2 solar field, 500.0

CSP Parabolic type plants over 1.0 MWth, MWth:

- 1 Miraah, 1021.0*

* under construction

Wind farm over 1.0 MW, MW:

- 1 Dhofar, 50.0

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 - 7.1 kWh/m² per day, distributed in the south, in Dhofar Governorate and in some places in the northeast between three Governorates of Oman.
- The most common wind speed is over 8.00 m/s at 50 m are distributed in the southeast part of country, in Dhofar and Al Wusta Governorates, in some places along country coast with the Arabian Sea.

Source: Energydata.info