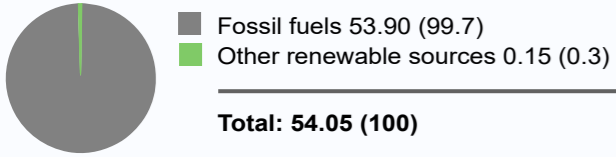


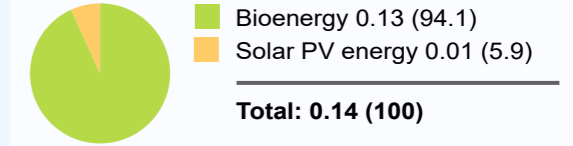
# Qatar • Electricity and Renewable energy

## 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

## Key gas power plants over 100 MW, MW:

- 1 Ras Girtas (Ras Laffan C), 2730
- 2 Umm Al Houl, 2520\*
- 3 Ras Abu Fontas A-B-B1-B2, 2178
- 4 Mesaieed, MPower, 2007
- 5 Ras Laffan A-B-C, 1781
- 6 Mesaieed, Qatalum, 1350
- 7 Al Wajbha, QEWC, 134
- 8 Al Saliyah, QEWC, 134

\* under construction

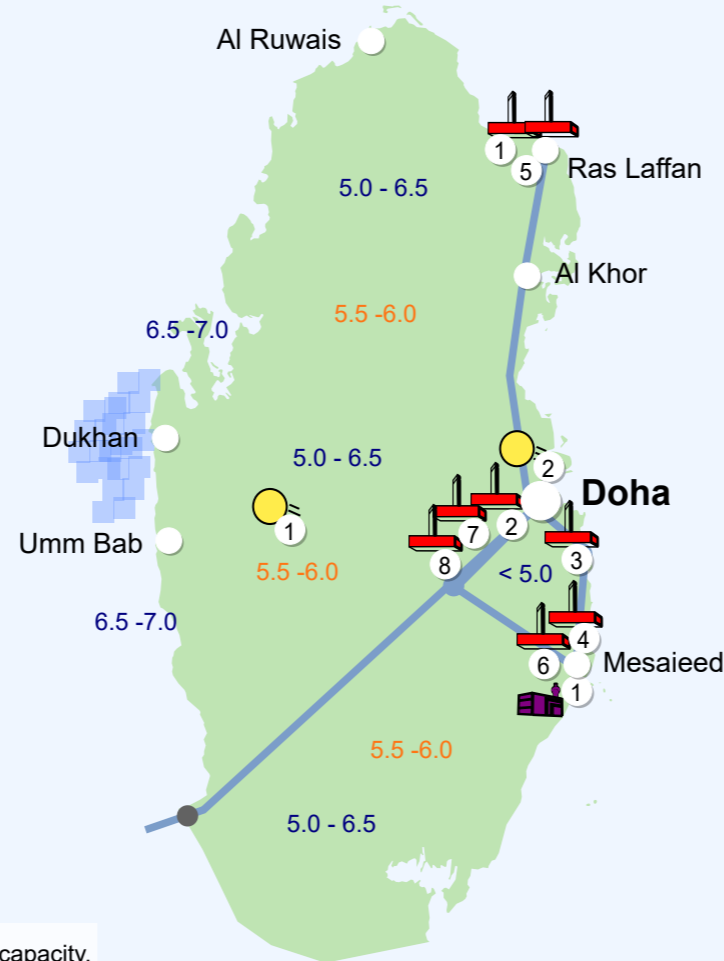
## Key Solar PV Power Plants, MW:

- 1 Al Kharsaah, 800.0
- 2 Al-Duhail, Kahramaa, 15.0

## Waste-to-energy plant:

- 1 Mesaieed

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



- 0.0 kWh/m<sup>2</sup>/d Direct Normal Irradiation (DNI)
- 0.0 m/s Wind speed

## High activity areas:

The most common solar DNI intensity is 5.5 - 6.0 kWh/m<sup>2</sup> per day, distributed throughout the country.

The most common wind speed is 7.0 - 7.5 m/s at 50 m are distributed in western part of country, Al Jumayliyah municipality.

Source: Energydata.info.

In 2019 Qatar had 10.6 GW of electricity installed generating capacity.

Source: U.S. Energy Information Administration(2020)