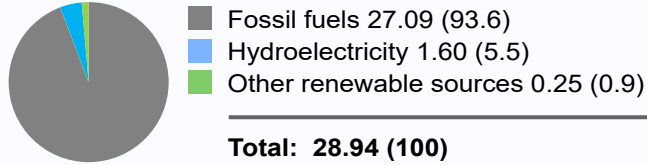


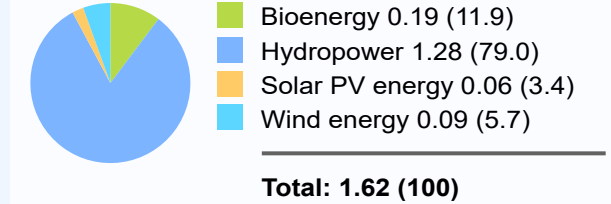
Azerbaijan • Electricity and Renewable energy

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 natural gas power plants over 100 MW, MW:

- 1 Shimal, 800
- 2 Janub (Cənub), 780
- 3 Sumgait, 525
- 4 Baku-1, 107
- 5 Baku-2, 105
- 6 Shahdagh, 105

Key wind farms over 1 MW, MW:

- 1 Yeni Yashma, 50.0
- 2 Sitalcaj (Qobustan), 2.7
- 3 Shurabad, 1.7

Key combined power plants over 100 MW, MW:

- 1 Azerbaijan, 2400
- 2 Shirvan (Ali-Bayramly), 1050
- 3 Sangachal, 300

- 500 kV line in service
- 330 kV line in service

- National grid 500 kV of other power plants, grid connection points, substations
- National grid 330 kV of other power plants, grid connection points, substations
- Border crossing

Hydro power plants over 100 MW, MW:

- 1 Mingachevir, 402
- 2 Shamkir, 380
- 3 Yenikand, 150

Waste-to-energy plant:

- 1 Balakhani (Baku)

Key biogas plants over 1 MWeI, MWeI:

- 1 Qobustan, 1.0

Key solar PV power plants over 1.0 MWeI, MWeI:

- 1 Naxçıvan, 20.0
- 2 Qobustan Pilot, 1.8
- 3 Suraxani (Baku), 1.2

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

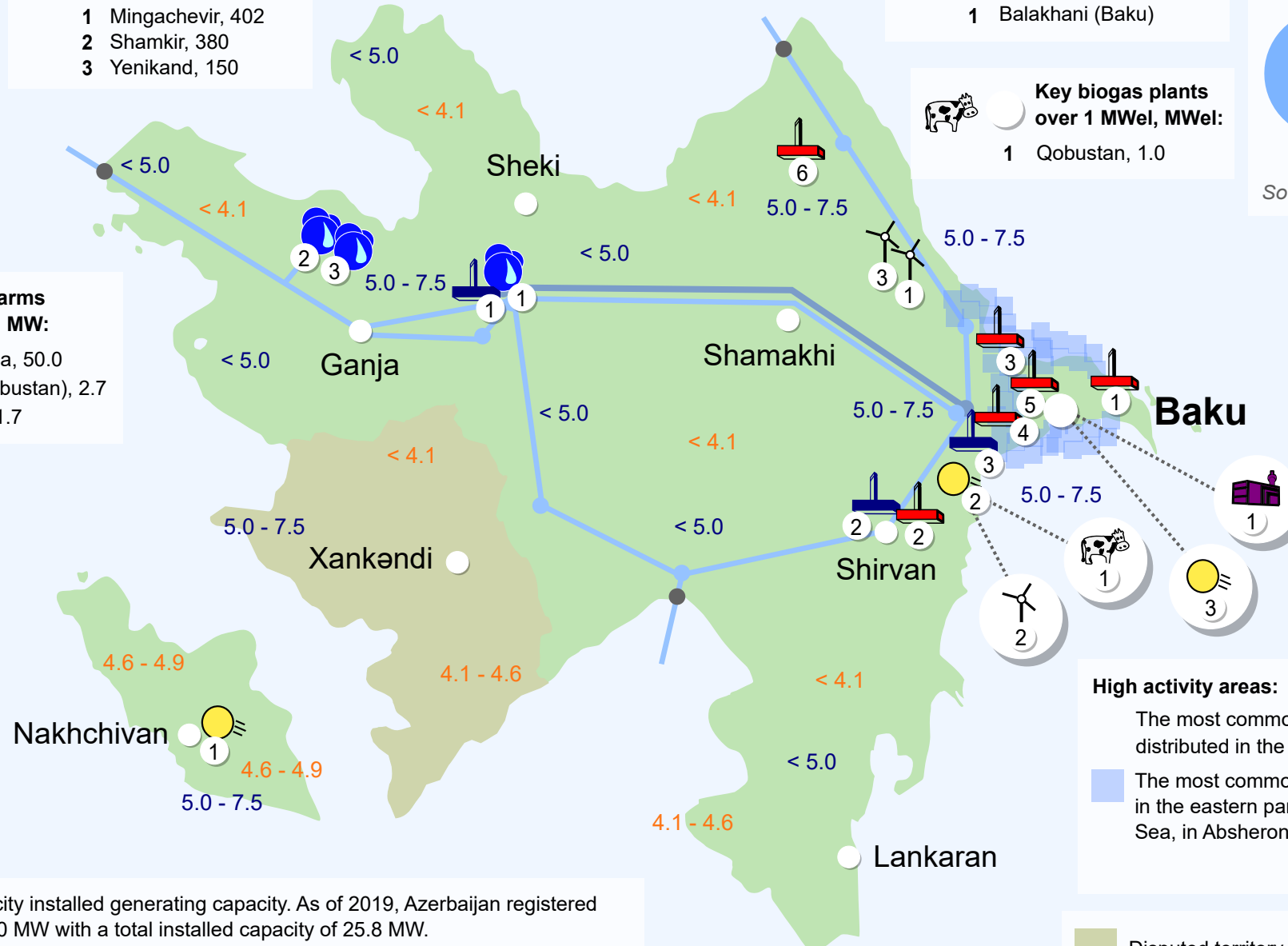
High activity areas:

- The most common solar GHI intensity is 4.6 - 4.9 kWh/m² per day, distributed in the southwestern part of country, in Nakhchivan region
- The most common wind speed is 7.5 - 8.5 m/s at 50 m are distributed in the eastern part of country, along the coastal line with the Caspian Sea, in Absheron region.

Source: Energydata.info

Disputed territory between Azerbaijan and Armenia since August 1993

Source: The State Statistical Committee of the Republic of Azerbaijan



In 2020 Azerbaijan had 7.6 GW of electricity installed generating capacity. As of 2019, Azerbaijan registered 11 small-scale hydropower plants up to 10 MW with a total installed capacity of 25.8 MW.

Sources: The State Statistical Committee of the Republic of Azerbaijan; World Small Hydropower Development Report 2019; Wikipedia.

