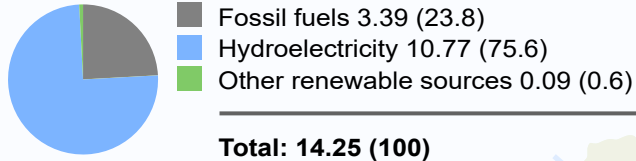


Georgia • Electricity and Renewable energy

Gross electricity generation 2022, TWh (%):



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



Natural gas power plants over 100 MW, MW:

- 1 Mtkvari, 600
- 2 Gardabani, Tbilisresi, 572
- 3 Gardabani New, 460
- 4 Gardabani, G-Power, 110

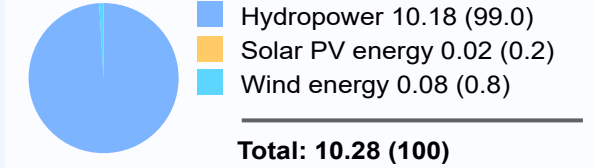
High activity areas:

The most common solar GHI intensity is 4.1 - 4.4 kWh/m² per day, distributed in some area of country, mainly in the east.

The most common wind speed is over 7.0 m/s at 50 m are distributed in some area of country, mainly in central part and along Georgia-Russia land border, as the Greater Caucasus Mountains.

Source: Energydata.info

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



Source: Renewable Energy Statistics 2023 © IRENA



Key hydro power plants over 100 MW, MW:

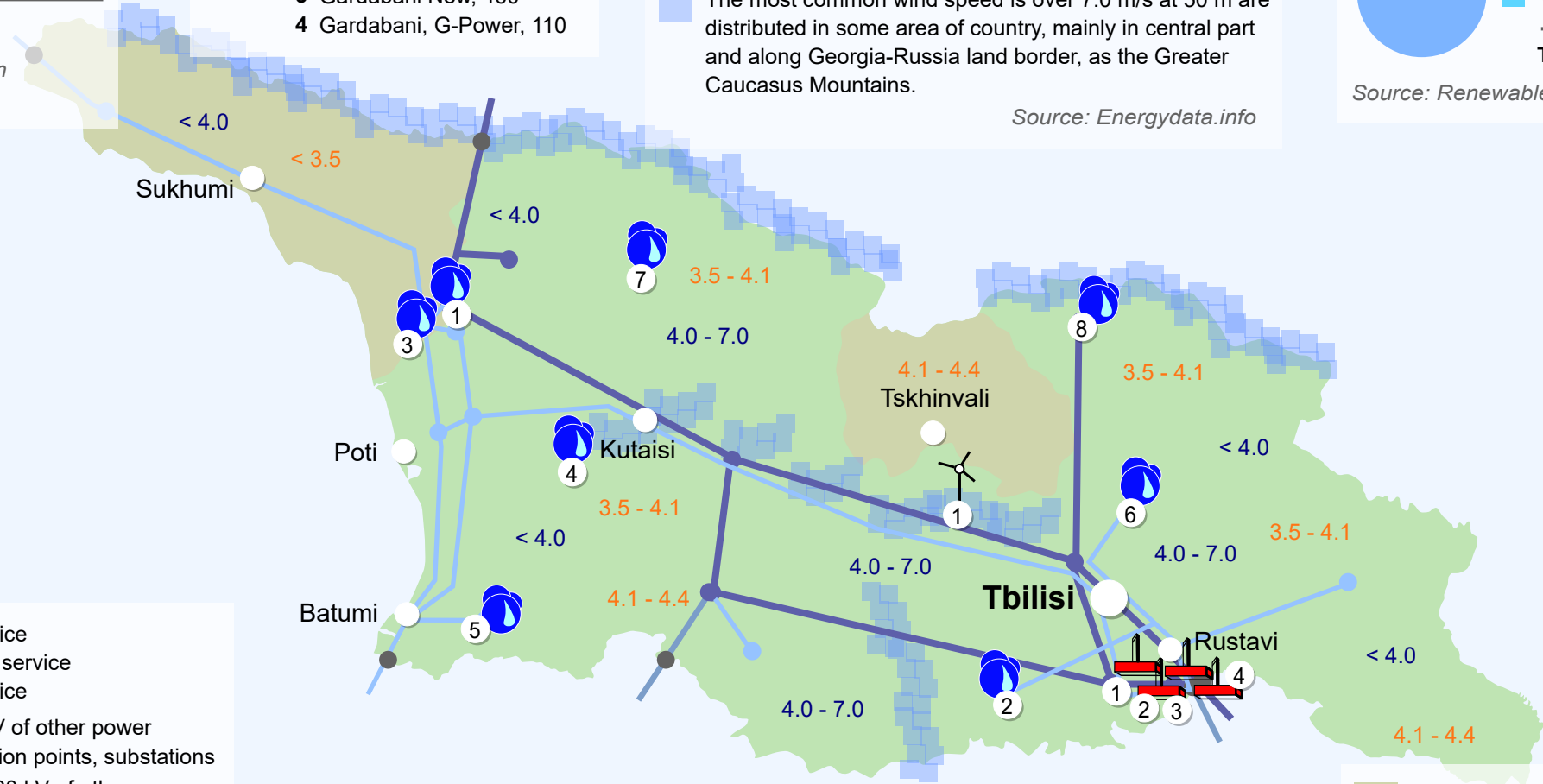
- 1 Enguri (Inguri), 1300
- 2 Khrami 1-2, 223
- 3 Vardnili-1, 220
- 4 Vartsikhe, 184
- 5 Shuakhevi, 178
- 6 Zhinvali, 130
- 7 Lajanuri, 112
- 8 Dariali, 108

- 500 kV lines in service
- 330-400 kV lines in service
- 220 kV lines in service

- National grid 500 kV of other power plants, grid connection points, substations
- National grid 330-400 kV of other power plants, grid connection points, substations
- National grid 220 kV of other power plants, grid connection points, substations
- Border crossing



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

Wind farm over 1.0 MW, MW:
1 Qartli (Kartli), 20.7

Areas, which not controlled by official Republic of Georgia Government since 2008:
- Abkhazia;
- South Ossetia.

Source: United Nations

In 2019 Georgia had 4.2 GW of electricity installed generating capacity. As of 2019, Georgia registered up to 51 small-scale hydro-power plants up to 10 MW with a total installed capacity of 142.3 MW.

Sources: U.S. Energy Information Administration (May 2022); World Small Hydropower Development Report 2019; Wikipedia.