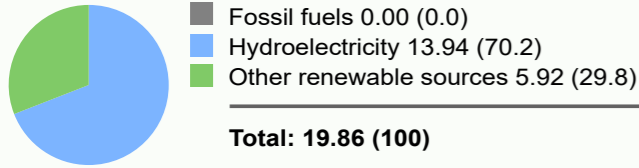


Iceland • Electricity and Renewable energy

Gross electricity generation 2022, TWh (%):



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

Key hydro power plants over 100 MW, MW:

- 1 Fljótsdalur (Kárahnjúkar), 690
- 2 Búrfell, 270
- 3 Hrauneyjafoss, 210
- 4 Blanda (Blöndustöð), 150
- 5 Sigalda (Sigöldustöð), 150
- 6 Sultartangi, 120

Key oil power plants over 10 MW, MW:

- 1 Bolungarvík, 10.8

Biomethanol plants, l/y:

- 1 CRI George Olah, 5 000 000

— 220 kV lines in service
— 132kV lines in service

- National grid 220 kV of other power plants, grid connection points, substations
- National grid 132 kV of other power plants, grid connection points, substations



Binary (Kalina cycle) type geothermal power plants over 1 MWe, MWe:

- 1 Husavík, 2.0



Major wind farms over 1 MW, MW:

- 1 Búrfell (Hafið), 1.9
- 2 Háþær (Þykkvibær), 1.2



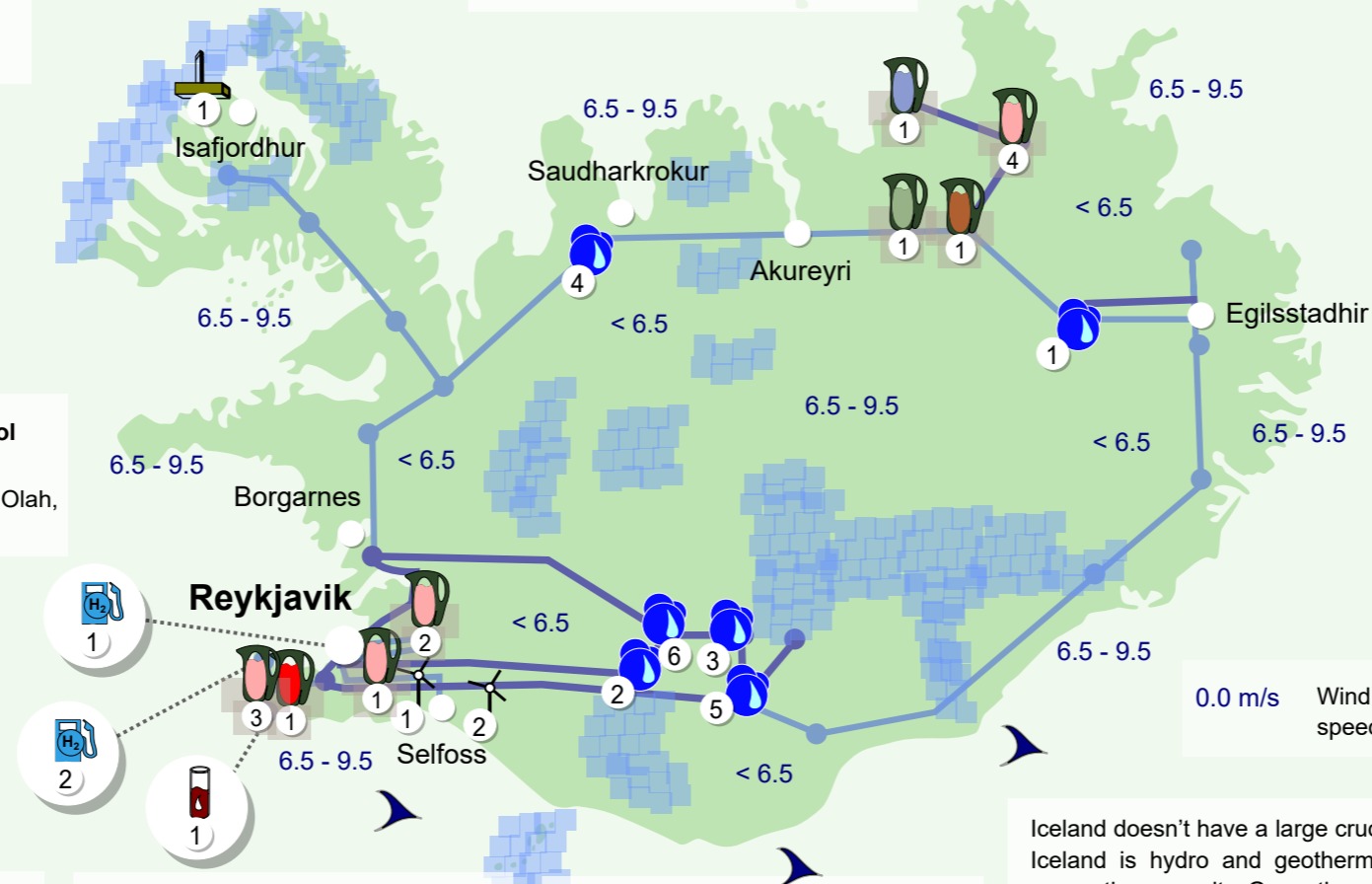
Hydrogen fueling stations:

- 1 Orkan Skeljungur Vesturlandsvegur (Reykjavík)
- 2 Orkan Fitjar Reykjanesbær (Keflavík)

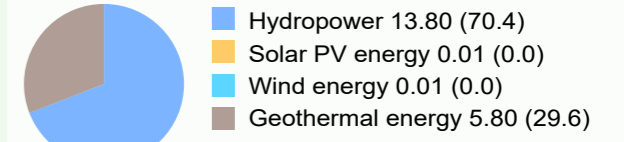


Dry steam type geothermal power plants over 1 MWe, MWe:

- 1 Svartsengi, 76.4



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



Source: Renewable Energy Statistics 2023 © IRENA.



Single flash type geothermal power plants over 1 MWe, MWe:

- 1 Hellisheiði, 303.0
- 2 Nesjavellir, 120.0
- 3 Reykjanes, 100.0
- 4 Theistareykir (Peistareykjavirkjun), 90.0

High activity areas:

- The most common wind speed is over 9.5 m/s at 50 m are distributed along the coastline of Iceland with the Atlantic Ocean and central part of country land.
- ▶ Avg wave power potential is over 60 kW/m per year.

Sources: Energydata.info; Wikipedia.

Iceland doesn't have a large crude oil, natural gas and coal reserves. The main energy resource of Iceland is hydro and geothermal energy. In 2019 Iceland had 2.9 GW of electricity installed generating capacity. Gross theoretical hydropower capability, related to Iceland, is 184.0 TWh/year. As of 2019, Iceland registered about 37 small-scale hydropower plants up to 10 MW with a total installed capacity of 54.8 MW.

Sources: Orkustofnun Data Repository OS-2020-T012-01; World Small Hydropower Development Report 2019; Used by permission of the World Energy Council (2013); Wikipedia.

Double flash type geothermal power plants over 1 MWe, MWe:

- 1 Krafla, 60.0

Back pressure type geothermal power plants over 1 MWe, MWe:

- 1 Bjarnarflag, 3.2