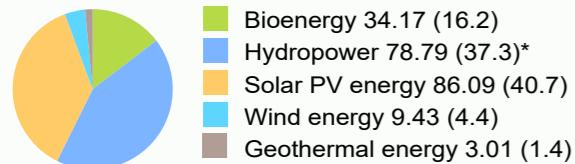


Japan • Renewable energy • Wind, Solar, Geothermal, Hydrogen

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



Total: 211.5 (100)

Source: Renewable Energy Statistics 2023 © IRENA
* excluding pumped storage

Wind power plants over 50 MW, MW:

- 1 Aoyama Plateau, 95.0
- 2 Shin Izumo, 78.0
- 3 Nunobiki Plateau (Kōriyama Nunobiki), 66.0
- 4 Soya Misaki, 57.0
- 5 Rokkashomura Futamata, 51.0
- 6 Yurikogen (Akita), 51.0
- 7 Nagashima, 50.4
- 8 Noheji (Aomori), 50.0
- 9 Shirataki, 50.0

Combined type geothermal power plants over 20 MWe, MWe:

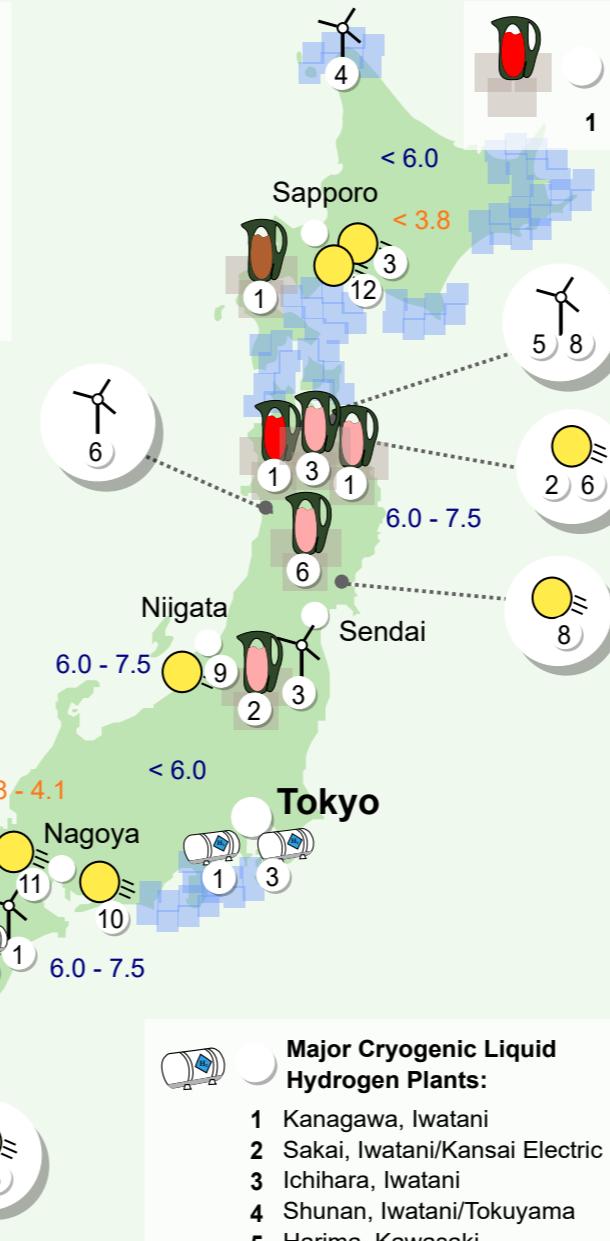
- 1 Hatchobaru 1-2, 112.0

Single flash type geothermal power plants over 20 MWe, MWe:

- 1 Kakkonda 1-2, 80.0
- 2 Yanadu-Nishiyama, 65.0
- 3 Sumikawa, 50.0
- 4 Yamagawa, 30.0
- 5 Ogiri, 30.0
- 6 Uenotai, 30.0
- 7 Takigami, 27.5

Double flash type geothermal power plants over 20 MWe, MWe:

- 1 Mori, 25.0



Dry steam type geothermal power plants over 20 MWe, MWe:

- 1 Matsukawa, 23.5

Major Compressed Hydrogen Plants:

- 1 Sakai, Iwatani

Hydrogen fueling stations:

According to available data for December 2018, Japan had more than 90 operational hydrogen fueling stations.

Source: H2 Tools

Hydrogen pipelines, km:

- 1 Kitakyushu, Iwatani Co., 1.2

Solar PV power plants over 45 MWe, MWe:

- 1 Sakuto, Pacifico Energy, 257.7*
- 2 Rokkasho, Eurus Energy, 115.0
- 3 Tomatoh Abira, SoftBank, 111.0
- 4 Hosoe, Pacifico Energy, 96.2*
- 5 Oita, Marubeni, 82.0
- 6 Rokkasho, Sojitz Co., 71.0
- 7 Kagoshima Nanatsujima, 70.0
- 8 Furukawa, Pacifico Energy, 56.9
- 9 Yotsugoya, Orix Co., 54.5*
- 10 Tahara Solar-Wind Project, 50.0
- 11 Kisozaki, 49.0
- 12 Tomatoh no Mori, Orix Co., 45.6

* under construction

High activity areas:

The most common solar GHI intensity is 3.8 - 4.1 kWh/m² per day, distributed in southern and southwestern parts of country, Honshu, Shikoku and Kyushu islands.

The most common wind speed is over 7.5 m/s per year at 50 m are distributed in Hokkaido island coastline; northern and southern parts of Honshu island coastline.

Source: Energydata.info