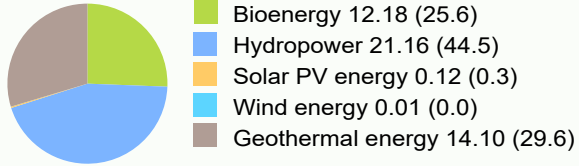


Indonesia • Renewable energy

Gross electricity generation from renewable sources by 2019, TWh (%)



Total: 47.57 (100)

Source: Renewable Energy Statistics 2021 © IRENA

Major wind power plants over 1 MW, MW:

- 1 Sidrap, 75.0*

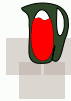
* under construction

Major biomass power plants, MW:

- 1 Jambi, PT. Rimba Palma, 30.0
- 2 Medan, PT. Growth Asia, 20.0
- 3 Medan, PT. Growth Sumatra, 15.0
- 4 Riau, PT. Riau Prima Energy, 15.0
- 5 Simalungun, PT. Harkat Sejahtera, 10.0
- 6 Belitung, Kencana Agri, 7.5
- 7 Korindo, PT. Korintiga Hutani, 7.3
- 8 Bangka, Kencana Agri, 6.0

Biodiesel plants over 450 000 kl/y:

- | | | | |
|---|------------------------------------|---|--------------------------------------|
| 1 | Jatim, Wilmar Nabati Indonesia | 5 | Dumai, PT. Cemerlang Energi Perkasa |
| 2 | Dumai, Wilmar Bio Energi Indonesia | 6 | Lampung, PT. Louis Dreyfus Indonesia |
| 3 | Batam, PT. Musim Mas | 7 | Bitung, PT. Multi Nabati Sulawesi |
| 4 | Dumai, PT. Bayas Biofuels | 8 | Medan, PT. Musim Mas |



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

- 1 Darajat, 259.0
- 2 Ulubelu, 220.0
- 3 Kamojang, 200.0
- 4 Patuha, 55.0



Combined type geothermal power plants over 1 MWe, MWe:

- 1 Sarulla, 330.0



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

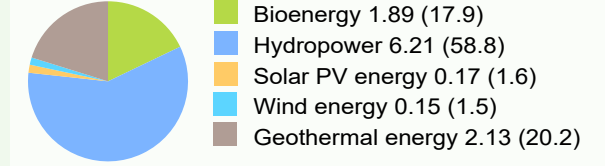
- 1 Gunung Salak, 375.0
- 2 Wayang Windu, 227.0
- 3 Lahendong, 80.0
- 4 Dieng, 60.0
- 5 Sibayak, 13.2
- 6 Ulumbu, 10.0
- 7 Mataloko, 1.8



Major bioethanol plants:

- 1 Lampung, Indolampung Distillery
- 2 Malang, Molindo Raya Industrial
- 3 Solo, Indo Acidatama
- 4 Mojokerto, ENERO
- 5 Jombang, Etanol Ceria Abadi
- 6 Yogyakarta, Madu Baru
- 7 Makassar, Basis Indah

Total installed renewable energy power capacity by 2020, GW (%)



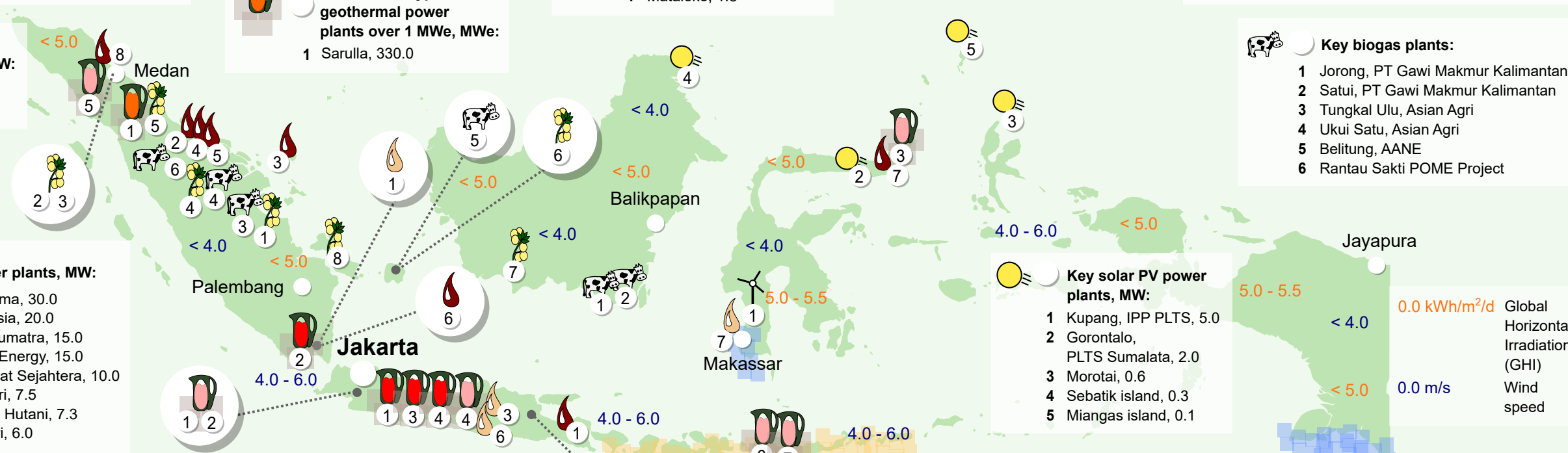
Total: 10.55 (100)

Source: Renewable Energy Statistics 2021 © IRENA



Key biogas plants:

- 1 Jorong, PT Gawi Makmur Kalimantan
- 2 Satui, PT Gawi Makmur Kalimantan
- 3 Tungkal Ulu, Asian Agri
- 4 Ukui Satu, Asian Agri
- 5 Belitung, AANE
- 6 Rantau Sakti POME Project



Key solar PV power plants, MW:

- 1 Kupang, IPP PLTS, 5.0
- 2 Gorontalo, PLTS Sumalata, 2.0
- 3 Morotai, 0.6
- 4 Sebatik island, 0.3
- 5 Miangas island, 0.1

High activity areas:

- The most common solar GHI intensity is 5.5 - 6.1 kWh/m² per day, distributed in southeastern part of country, the Bali and Nusa Tenggara provinces.
- The most common wind speed is 6.0 - 7.0 m/s per year at 50 m are distributed in southeastern part of country, the Papua and South Sulawesi provinces.

Source: Energydata.info

