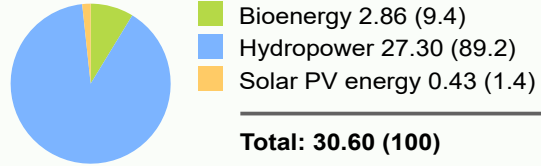


Malaysia • Renewable energy

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



Source: Renewable Energy Statistics 2023 © IRENA

Key biomass power plants over 10.0 MWe, MWe:

- 1 Kunak (Tawau), 14.0
- 2 Manju Intan, 12.5
- 3 Cash Horse (M) Project (Sandakan), 12.0
- 4 Pasir Gudang, Naturi Ventures, 12.0
- 5 Kina Biopower, 11.5
- 6 Seguntor Bioenergy, 11.5

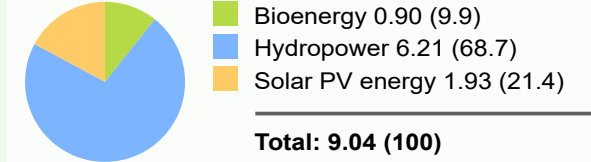
Key wood pellet plants:

- 1 Bintulu, Green Pellet Sarawak
- 2 Bukit Mertajam, Techniray
- 3 Chemor, Bio Facto
- 4 Klang, Ehstan
- 5 Telok Gong, Bio Eneco

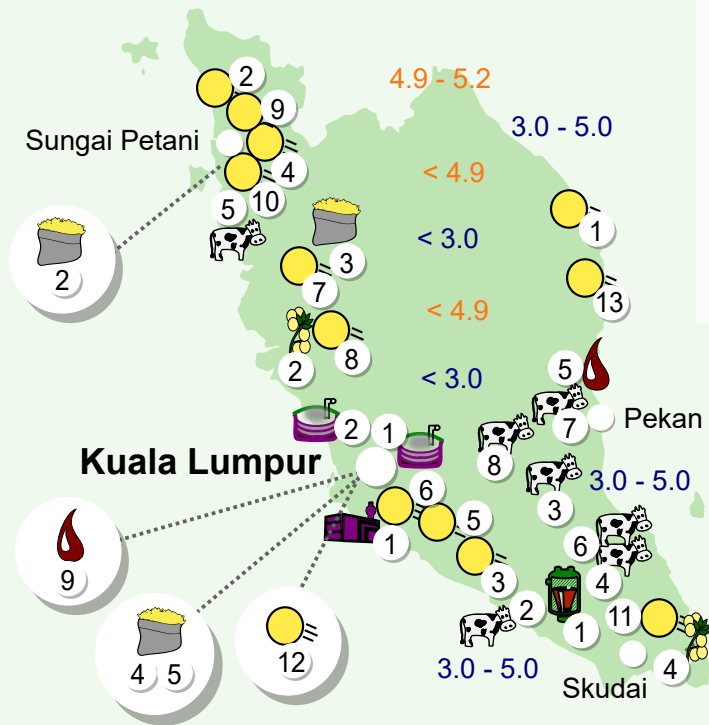
Key biodiesel plants:

- 1 Pasir Gudang, Vance Bioenergy
- 2 Kuching, Senari Biofuels
- 3 Tanjung Langsat, YPJ Palm Inter.
- 4 Pasir Gudang, Malaysia Vegetable Oil
- 5 Kuantan, FGV
- 6 Lahad Datu, SPC Biodiesel
- 7 Pasir Gudang, Nexsol (Malaysia)
- 8 Pasir Gudang, PGEO Group
- 9 Shah Alam, KLK Bioenergy

Total installed renewable energy power capacity by 2022, GW (%):



Source: Renewable Energy Statistics 2023 © IRENA



Key biogas plants over 1.0 MWe, MWe:

- 1 Sandakan, Mistral Engineering, 3.0
- 2 Batu Pahat, Bell Eco Power, 2.0
- 3 Havys (Keraton), 2.0
- 4 Kahang, 2.0
- 5 Malpom (Penang), 2.0
- 6 Rompin, Mattan, 2.0
- 7 Sri Jelutung (Pahang), 1.5
- 8 Cheekah (Pahang), 1.0

Key landfill gas-to-energy plants:

- 1 Jana 1-2 Project (Puchong)
- 2 Jeram

Key solar PV power plants over 15.0 MWe, MWe:

- 1 Merchang (Terengganu), 66.0
- 2 Gurun (Kedah), 65.0
- 3 Jasin (Malacca), 65.0
- 4 Kuala Ketil, 50.0
- 5 Rembau, 50.0
- 6 Sepang (Kuala Langat), 50.0
- 7 Redsol Project, 47.0*
- 8 Bidor, 30.0
- 9 Bukit Selambau, 30.0*
- 10 Kuala Muda, 29.0
- 11 Kota Tinggi, 29.0
- 12 Kuala Lumpur Airport, 19.0
- 13 Teluk Kalong (Kemaman), 18.5

* under construction

Fast pyrolysis plant, t/hr:

- 1 Ayer Hitam, Genting Bio-Oil, 2.0

Waste-to-energy plant:

- 1 Ladang Tanah Merah

High activity areas:

The most common solar GHI intensity is 5.2 - 5.3 kWh/m² per day, distributed in the north-eastern part of country, in Sabah state and in the north-western part of country, in Kedah Darul Aman state.

The most common wind speed is 5.0 - 5.5 m/s at 50 m are distributed in the north-eastern part of country, in Sabah state.

Source: Energydata.info