Lithuania • Renewable energy

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

- Bioenergy 0.69 (26.2)
- Hydropower 0.38 (14.6)*
- Solar PV energy 0.19 (7.3)
- Wind energy 1.36 (51.9)

Total: 2.62 (100)

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

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

- Bioenergy 0.12 (7.3)
- Hydropower 0.12 (7.2)*
- Solar PV energy 0.57 (35.1)
- Wind energy 0.81 (50.3)

Total: 1.62 (100)

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

Key biodiesel plants:

1. Klaipeda, Mestilla UAB
2. Mažeikiai, Rapsoila UAB
3. Marijampole, Arvi biodegalai UAB

Key bioethanol plants:

1. Panevežys, Leo Ir Ko
2. Šilute, Biofuture AB
3. Pasvalys, Kurana UAB
4. *Telšiai, Bioetan LT UAB**

** under construction*

Key wood pellet plants over 10 000 t/y:

1. Radviliskis, JSC GaireLita
2. Mažeikiai, Baltic Bio Energy
3. Alytus, Graanul Invest
4. Baisogala, Granulita UAB
5. Tubučiu, Šilales Mediena
6. Utena, BIOGRA UAB
7. Mažeikai, BioWood Nordic UAB
8. Telšiai, Bio Wood UAB
9. Prienai, Biofuelz UAB
10. Vilnius, Biodela UAB

Key solar PV power plants over 1.0 MWel, MWel:

1. Sitkūnai, 2.6
2. Brizgai, 2.0
3. Daušiškiai, 1.9
4. Oranai (Solar LT), 1.5
5. Lentvaris, RETAL factory, 1.4
6. Utena, Švyturys-Utenos alus, 1.0
7. Benaičiai, 1.0

Waste-to-energy plant:

1. Klaipeda, Fortum

Key wind farms over 10 MW, MW:

1. Strepeikių (Pagėgiai 13), 73.5
2. Juknaičiu (Šilute), 60.0
3. Kabaldiku (Mažeikiai), IKEA, 45.0
4. Kreivenai 1-2-3, 44.9
5. Čiūteliai, 39.1
6. Benaičiai-1, 34.0
7. Vydmantai, 30.0
8. Geišių (Rotuliai-II), 24.0
9. Didšiliai, 21.4
10. Laukžemes, 16.0
11. Sūdėnai, 14.0
12. Šilale, 13.8
13. Mockiai, 12.0

Key biomass power plants over 2.0 MWel, MWel:

1. *Vilnius CHP, 88.0**
2. *Kaunas CHP, 24.0**
3. Vilnius, Vilniaus Energija, 12.0
4. Šiauliai, Šiauliu Energija, 11.0
5. Alytus CHP, UAB Litesko, 5.4
6. Kaunas (Taika), Danpower Baltic, 5.0
7. Marijampole, UAB Litesko, 2.5
8. Utena, UAB UST, 2.5

** under construction*

Key biogas plants:

1. Pasvalys, Kurana UAB
2. Vilnius WWTP
3. Obeliai Distillery, AB Vilniaus degtine
4. Pasodėlė, Idavang (Psenergija UAB)
5. Noreikiškes, AB Kauno energija
6. Klaipeda WWTP
7. Lekėčiai, Idavang UAB
8. Rokiškis, AB Rokiškio sūris

Key landfill gas-to-energy plants over 1.0 MWel, MWel:

1. Kariotiškes, Vilnius, 1.6
2. Glaudenu, Klaipeda, 1.6
3. Lapes (Domeikava), 1.1

0.0 kWh/m²/d — Global Horizontal Irradiation GHI)

0.0 m/s — Wind speed

High activity areas:

The most common solar GHI intensity is 2.8 - 3.0 kWh/m² per day, distributed in western part of country, in Klaipeda, Marijampole and Alytus counties.

The most common wind speed is over 7.0 m/s at 50 m are distributed in western part of country, along the coastal line with the Baltic Sea, in Klaipeda county.

Source: Energydata.info

www.aenert.com