

# Estonia • Renewable energy

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



**Total: 2.88 (100)**

Source: Renewable Energy Statistics 2023 © IRENA

## Key solar PV power plants over 1.0 MWeI, MWeI:

- 1 Pärnu, 3.9
- 2 Peetri, 1.2
- 3 Kärkla, 1.1
- 4 COOP Logistics Center, 1.0
- 5 Pakri, 1.0

## Key wood pellet plants:

- 1 Imavere, Graanul Invest
- 2 Somerpalu, Osula Graanul
- 3 Patküla (Torva), Graanul Invest
- 4 Ebavere, Graanul Invest
- 5 Sauga, Warmeston
- 6 Järvere, Warmeston
- 7 Purila, Warmeston
- 8 Sõmeru, Ardor
- 9 Kavastu, Palmako
- 10 Imavere, Stora Enso
- 11 Näpi, Stora Enso
- 12 Jõgeva, Kronopal

## Key biomass power plants over 1.0 MWeI, MWeI:

- 1 Vão (Tallinn) CHP, 46.0
- 2 Tartu CHP, 25.0
- 3 Pärnu CHP, 24.0
- 4 Paide CHP, 2.0

## Key landfill gas-to-energy plants:

- 1 Jõelähtme (Tallinn)
- 2 Pääsküla
- 3 Aardlapalu
- 4 Uikala
- 5 Väätša
- 6 Paikuse

## Key biogas plants over 1.0 MWeI:

- 1 Aravete, 2.0
- 2 Ilmatsalu (Tartu), 1.5
- 3 Vinni, 1.3
- 4 Oisu, 1.2

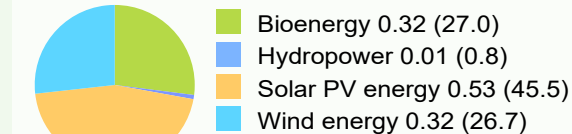
0.0 kWh/m<sup>2</sup>/d Global Horizontal Irradiation (GHI)  
0.0 m/s Wind speed

## High activity areas:

The most common solar GHI intensity is 2.8 - 3.0 kWh/m<sup>2</sup> per day, distributed in southwestern part of country, on Estonian small islands and in Saare or Saaremaa county.

The most common wind speed is over 6.5 m/s at 50 m are distributed in western part of country, along the coastal line with the Gulf of Finland and the Baltic Sea.

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



**Total: 1.18 (100)**

Source: Renewable Energy Statistics 2023 © IRENA

## Key wind farms over 8 MW, MW:

- 1 Aulepa, 48.0
- 2 Paldiski, 45.0
- 3 Narva, 39.0
- 4 Aseriaru, 24.0
- 5 Viru-Nigula, 24.0
- 6 Tooma, 23.0
- 7 Pakri, 18.4
- 8 Virtsu 1-3, 16.4
- 9 Mäli, 12.0
- 10 Rõuste (Esivere 1), 12.0
- 11 Vanaküla, 9.0
- 12 Esivere, 8.0

## Waste-to-energy plant:

- 1 Iru, Enefit Green

