Croatia • Renewable energy

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

- Bioenergy 1.10 (11.4)
- Hydropower 7.13 (67.7)*
- Solar PV energy 0.15 (1.4)
- Wind energy 2.06 (19.6)
- Geothermal energy 0.09 (0.9)

Total: 10.53 (100)

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

Major biomass gasification plants from biowaste, MWth:

1. *Šibenik, 2.8**
2. Belišće-1, 2.5
3. Belišće-2, 2.2
4. *Vrpolje (Bioenergetika), 2.1**

** under construction*

Key biodiesel plant:

1. Vukovar, Biodizel Vukovar

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

- Bioenergy 0.16 (4.4)
- Hydropower 2.20 (61.2)*
- Solar PV energy 0.18 (5.1)
- Wind energy 1.04 (29.0)
- Geothermal energy 0.01 (0.3)

Total: 3.59 (100)

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

Key wind farms over 30 MW, MW:

1. Lukovac, 48.0
2. Poštak, 44.2
3. Danilo, 43.7
4. Ogorje, 42.0
5. Vrataruša, 42.0
6. Zelengrad, 42.0
7. Kamensko-Voštane, 40.0
8. Bruška, 36.8
9. Ponikve, 36.8
10. Katuni, 34.2
11. Rudine, 34.2
12. Jelinak, 30.0

New large wind farms, 2021, MW:

13. Senj, 156.0
14. Padjene, 129.6
15. Korlat, 58.

Key biogas plants over 2.0 MW, MW:

1. Zagreb WWTP, 2.5
2. Slatina, Biointegra, 2.4
3. St. Petar Orehovec, Bioplinara organica Kalnik-1, 2.4
4. Gradec, Agrokor Energije, 2.1
5. Ivankovo, Osatina Grupa, 2.0
6. Tomašanci, Osatina Grupa, 2.0
7. Slaščak, Osatina Grupa, 2.0
8. Mitrovac, 2.0
9. Ovčara (Vukovar), 2.0
10. PIK Vinkovci, 2.0

Key biomass power plants over 1.0 MWe:

1. Univeridas (Babina Greda), 9.7
2. Slatina, 5.0
3. *Županja, 5.0**
4. Slavonski Brod, 4.7
5. *Virovitica, 3.4**
6. Strizivojna Hrast, 3.3
7. Osijek, 3.0
8. Sisak, 3.0
9. *Žakanje, 1.0**

** under construction*

Key wood pellet plants:

1. Delnice, Energy Pellets
2. Udbina, Moderator
3. Fužine, Drvenjača
4. Jasenovac, PIN
5. Novska, Pelet Grupa
6. Vrbovec, Mundus Virdis
7. Županja, Šišarka

Key landfill gas-to-energy plants:

1. Jakuševac
2. Viškovo

Key solar PV power plants over 3 MWe, MWe:

1. Kaštelir 1-2, 3.0
2. Vis, 3.5

Binary type geothermal power plant over 1 MWe, MWe:

1. Velika Ciglena, 17.5

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 over 4.1 kWh/m² per day, distributed in southern and southwestern parts of country.

The most common wind speed is over 7.0 m/s at 50 m are distributed in some area of western part of country, along the coastal line with the Adriatic Sea, between Lika-Senj and Zadar-Knin counties.

Source: Energydata.info

www.aenert.com