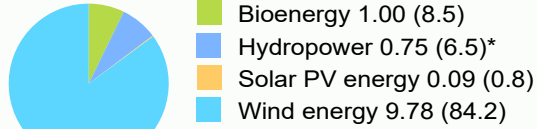


# Ireland • Renewable energy

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



Total: 11.61 (100)

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

## Waste-to-energy plants:

- 1 Poolbeg (Dublin)
- 2 Meath

## Key solar PV power plants, MW:

- 1 Garballagh Lower Solar Farm, 95
- 2 Ballymacarney solar farm, 200\*

\* under construction

## Key wood pellet plants:

- 1 Portlaoise, Laois Sawmills

## Key biomass power plants over 1.0 MW:

- 1 Enniskeane, Grainger Sawmills, 1.8
- 2 Astellas pharmaceutical facility, 1.6
- 3 West Offaly, 150.0\*\*\*
- 4 Edenderry, 120.0\*\*\*
- 5 Lough Ree, 100.0\*\*\*

\*\*\* peat power plant

## Major biodiesel plants:

- 1 New Ross, Green Biofuels Ireland Ltd.
- 2 Wicklow, Irish Biofuels Production Ltd.

## Key biogas plants:

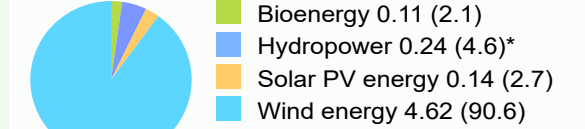
- 1 Nurney, Green Generation

## Key wind turbine manufacturers in Ireland:

- 1 C&F Green Energy in Galway;
- 2 Heverin Renewable Energies in Crossmolina.

Sources: C&F Green Energy; Heverin Renewable Energies.

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



Total: 5.10 (100)

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

## Key wind farms over 45 MW, MW:

- 1 Galway Wind Park, 174.0
- 2 Knockacummer, 100.0
- 3 Meenadreen, 95.0
- 4 Meentycat, 88.5
- 5 Mount Lucas, 84.0
- 6 Slievecallan West and East, 72.5\*\*
- 7 Knockduff, 65.0
- 8 Lisheen, 60.0
- 9 Derrybrien, 59.5
- 10 Boggeragh, 57.0
- 11 Bindoo, 48.0
- 12 Kilgarvan, 45.0

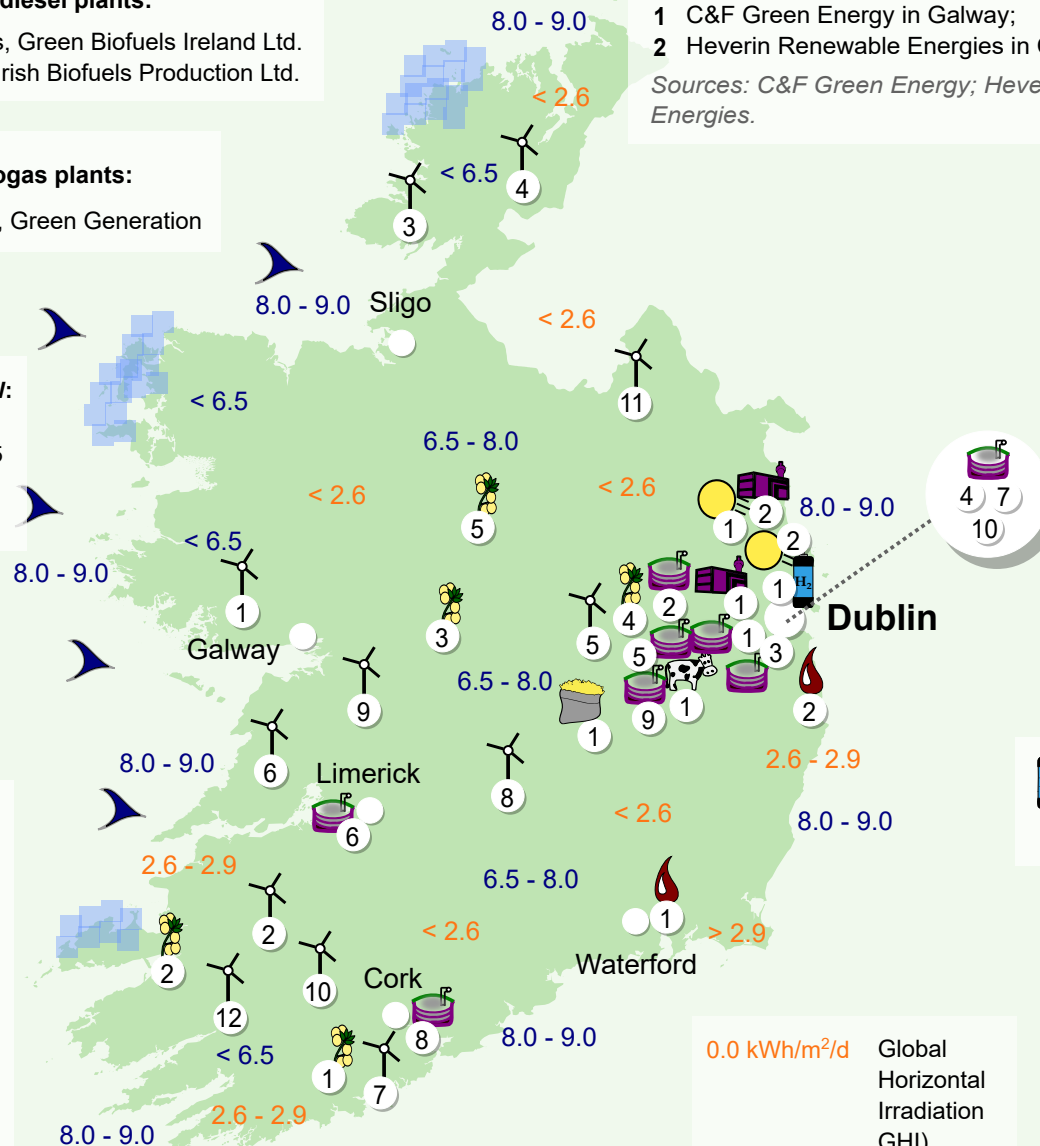
\*\* under construction

## Compressed Hydrogen Plant:

- 1 Dublin, Linde (BOC)

## Key landfill gas-to-energy plants over 1.0 MW:

- 1 Arthurstown
- 2 Drehid
- 3 Dunsink
- 4 Balleally
- 5 KTK Brownstown
- 6 Gortadroma
- 7 Ballyogan
- 8 Tramore Valley
- 9 Silliot Hill (Kilcullen)
- 10 Friarstown



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 over 2.9 kWh/m<sup>2</sup> per day, distributed in Ireland's county of Wexford.

The most common wind speed is over 9.0 m/s at 50 m are distributed along the west coastline of Ireland with the Atlantic Ocean.

Avg wave power potential is over 60 kW/m per year.

Sources: Energydata.info; Wikipedia.

