WIND ENERGY BAROMETER 2024

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EurObserv'ER estimates that in 2023, newly installed wind power capacity reached at least 14.8 GW, bringing the EU's total capacity to 218.5 GW after accounting for decommissioned capacity, slightly less than the increase seen between 2022 and 2021 (15.8 GW). Significant offshore wind energy capacity of at least 2,176 MW was connected to the grid in 2023, compared to just over 1 GW in 2022, making it the most successful year for new offshore installations in the EU. Favorable wind conditions contributed to a record-setting production year, with combined onshore and offshore wind power output estimated at 476.6 TWh, marking a 13.0% year-on-year increase (54.8 TWh). Offshore wind power output for 2023 amounted to 54.8 TWh, showing 9.4% growth and contributing 11.5% to total wind power output.

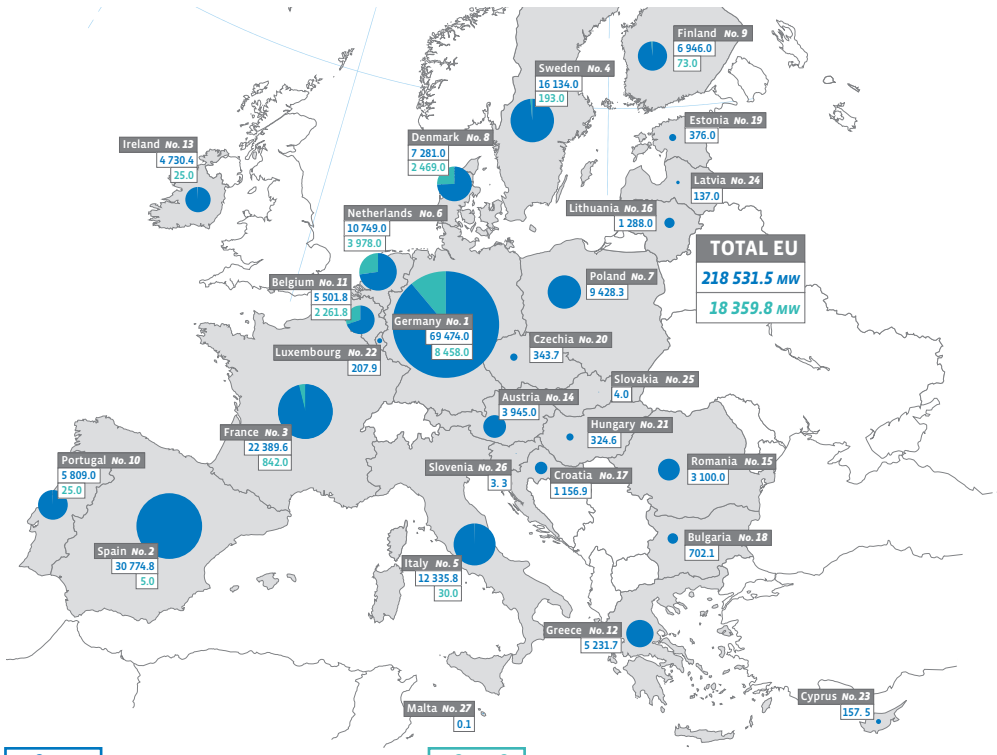
476.6 TWh

The estimated electricity production from wind power in the EU of 27 in 2023

218.5 GW

Wind power capacity installed in the European Union at the end of 2023

Wind power capacity installed in the European Union at the end of 2023** (MW)*

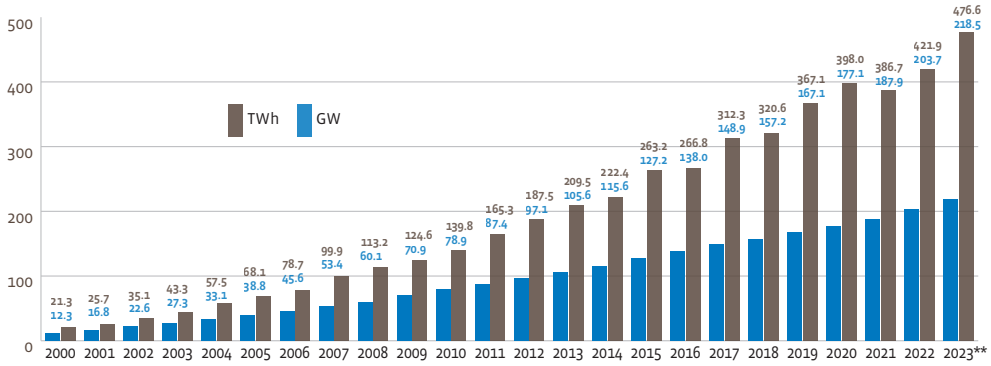


218 531.5 Total wind power capacity* (onshore and offshore) at the end of 2023** (in MW)

18 359.8 of which offshore wind power capacity at the end of 2023 (in MW)

*Net maximum electrical capacity. **Estimate. Source: EurObserv'ER 2024.

Evolution of wind power capacity installed* (in GW) and gross wind electricity production (in TWh) from 2000 to 2023** in the EU 27



** Net maximum electrical capacity. ** Estimation. Sources : Years 2000-2021 (Eurostat). Year 2022 and 2023 (EurObserv'ER).*

Further information

ANNUAL REPORT: "The State of Renewable Energies in Europe", 22nd edition, www.eurobserv-er.org/22nd-annual-overview-barometer/

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The next barometer will cover photovoltaics.

DISCLAIMER

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A study carried out by EurObserv'ER

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