



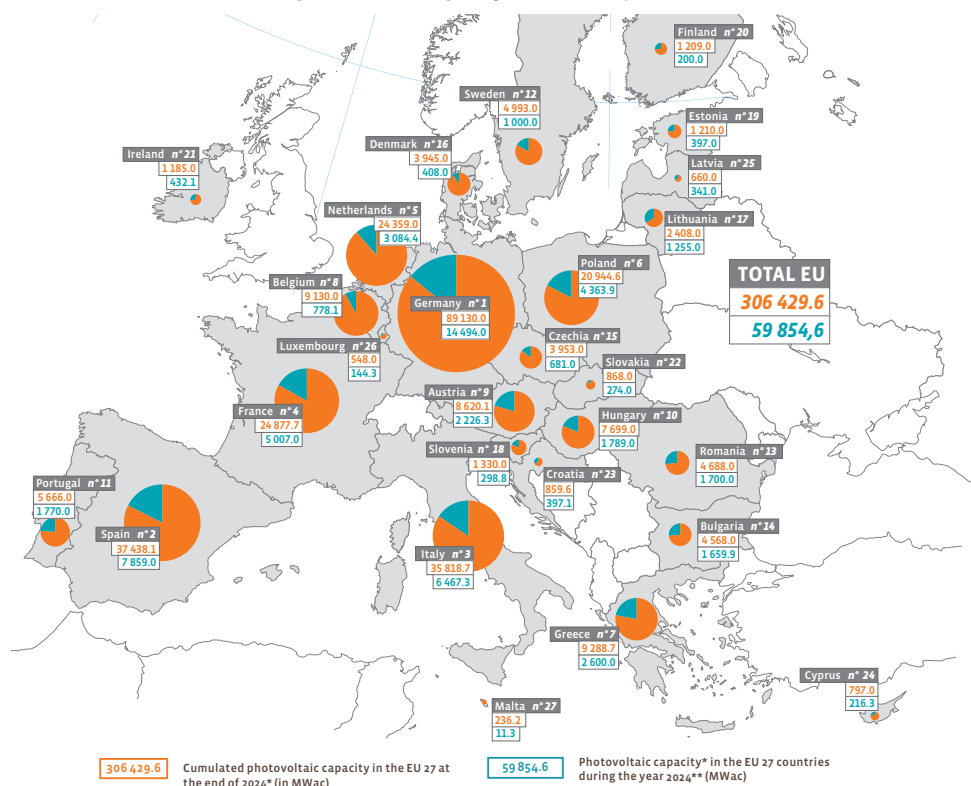
# PHOTOVOLTAIC BAROMETER 2025

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category/all-photovoltaic-barometers/](https://www.eurobserv-er.org/category/all-photovoltaic-barometers/)

Once again, solar photovoltaic displayed its aptitude for rapid deployment on a global scale in 2024. The International Renewable Energy Agency, IRENA, reported that net maximum global photovoltaic capacity worldwide had risen to 1 858.6 GW by the end of the year, amounting to 451.9 GW of additional capacity in the space of 12 months. This amounts to a 28.1% year-on-year increase, compared to the 352.7 GW added in 2023. China towers above the rest of the world for installation (it added 278 GW) and accounts for over 60% of the global market. The European Union remained in second place in 2024 with net maximum additional capacity of about 60 GW, according to EurObserv'ER, and established a clear lead over the United States and India. This global solar growth now goes hand in hand with large scale development of electrochemical storage. China and the United States have already installed tens of GW of storage facilities, while the European and Indian markets are burgeoning.

Installed and cumulated solar photovoltaic capacity\* in the European Union at the end of 2024\*\* (MW)



\* Net maximum electrical capacity, off-grid included, MW expressed in alternative current. \*\* Estimation.

Source: EurObserv'ER 2025.

Note: 65 MW decommissioned in Germany, 64 MW in France, 1 MW in Austria, 0.9 MW in Malta. The data concerning the decommissioned capacity is not always available.

## 296.8 TWh

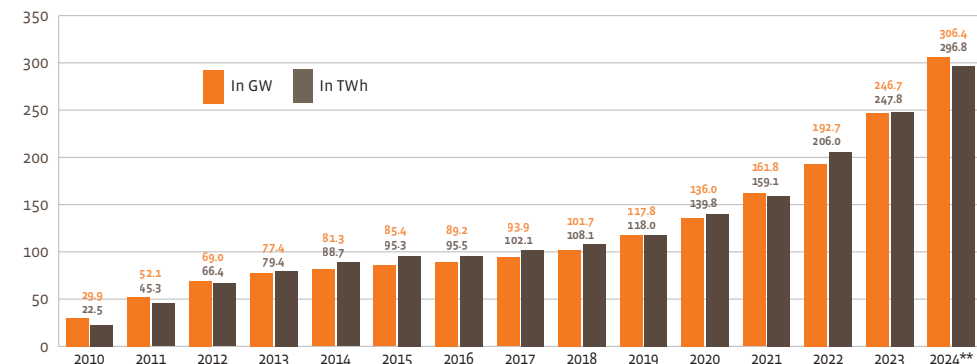
Photovoltaic electricity  
generated  
in the EU during the year 2024

## 59 854.6 MW

Photovoltaic capacity installed  
in the EU during the year 2024



Evolution of photovoltaic capacity installed\* (in GW) and gross photovoltaic electricity production (in TWh) from 2010 to 2024\*\* in the EU 27



\* Net maximum electrical capacity, off grid included, MW expressed in alternative current. \*\* Estimation.

Sources : Years 2010-2022 (Eurostat), Year 2023 and 2024 (EurObserv'ER).

## FURTHER INFORMATION

ANNUAL REPORT: "The State of renewable energies in Europe", 23rd edition,  
[www.eurobserv-er.org/23rd-annual-overview-barometer](http://www.eurobserv-er.org/23rd-annual-overview-barometer)

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The next  
barometer will  
cover solar thermal  
and CSP.

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