



PHOTOVOLTAIC BAROMETER 2023



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Solar photovoltaic energy is keeping its shine. Initial assessments of the net maximum capacity connected to grids worldwide during 2022 indicate at least 191.5 GWac (ac for alternative current), which would take global capacity up to 1 046.6 GWac. The expansion of industrial module and electrochemical storage manufacturing capacities is hastening solarization of the global electricity mix. The EU-27, having connected at least 32.8 GWac of net maximum capacity in 2022

and 195.4 GWac of total capacity to date, is eyeing new heights. Its combined solar power output of 205.2 TWh, boosted by the record sunshine levels of 2022, increased by 29.6%, or 46.9 TWh, on its 2021 performance. This trend can be expected to continue, as EU Member States have set ambitious targets: Germany targets a total connected capacity of 215 GW by 2030, while the Netherlands removed VAT on residential PV systems to further increase the country's installed capacity.

205.2 TWh

Photovoltaic electricity generated in the EU in 2022

195 413.2 MWac

Cumulative photovoltaic capacity in the EU-27 in 2022



Installed and cumulated solar photovoltaic capacity* in the European Union at the end of 2022** (MWac)

