

Europe promotes solar power generation



Overview

As part of the REPowerEU plan, in May 2022 the Commission adopted an EU solar energy strategy, which identifies remaining barriers and challenges in the solar energy sector and outlines initiatives to overcome them and accelerate the deployment of solar technologies.

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Solar power in the European Union

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The EU's solar energy capacity increased significantly from 164.19 GW in 2021 to 259.99 GW by 2023, with employment in the sector growing from 466,000 workers in 2021 to 648,100 by the end of 2022, representing a 39% increase. These developments are part of the REPowerEU plan, which targets over 320 GW of solar photovoltaic capacity by 2025 and nearly 600 GW by 2030. The growth in jobs suggests the possibility of exceeding 1 million solar workers by 2025, ahead of previous estimates for





Solar energy

Under the European Green Deal and the REPowerEU plan, solar power is a building block of the EU's transition to cleaner energy. Its accelerated

Europe

Europe is a continent located entirely in the Northern Hemisphere and mostly in the Eastern Hemisphere. It is bordered by the Arctic Ocean to the north, the Atlantic Ocean to the west, the



Map of Europe (Countries and Cities)

A Europe Map featuring countries and labels. It includes western, northern, southern and eastern Europe with outlines for each country.

[Solar generates record 13% of EU electricity in 2025](#)

EU solar generation increased by over 20% for the fourth year running in 2025, with its share in the energy mix surpassing coal and hydro. For the first time in history, solar and wind



Total EU-27 Solar PV capacity: a growth story

Solar in the European Union has been traditionally dominated by rooftop applications, and the energy crisis has further pushed the market in that direction.

[Turning to the sun: Solar rise in Central Europe, Ember](#)

Once associated with coal, the region is already Europe's solar powerhouse and is quickly becoming the continent's battery hub. This report examines electricity generation trends in



How Europe is paying for its solar boom

The EU has doubled its solar capacity in the last three years. How have subsidies made this possible, what support is still available, and what still

[European Solar Incentives 2026: Country-by-Country Guide to Grants](#)

Compare solar grants, feed-in tariffs, net metering & tax credits across Germany, Italy, France, Spain, Netherlands, UK & Poland. Updated March 2026.



[Europe: geography, climate, culture, economy and history](#)

What is Europe? Europe is one of Earth's six continents and the fifth largest by area. It is bordered to the north by the Arctic Ocean, to the south by the Mediterranean Sea, the Black Sea and the Caspian

Europe: Human Geography

Europe is a peninsula of the Eurasian supercontinent and is bordered by the Arctic Ocean to the north, the Atlantic Ocean to the west, and the Mediterranean, Black, and Caspian seas



[Map of Europe , List of Countries of Europe](#)



Europe's solar generation hits new high

EU solar power output grew 21.7% (i.e., by 54 terawatt-hours, TWh) in 2024, expanding from 9.3% to 11.1% of total generation - a trend mostly driven by new capacity additions. Solar plants



How Europe is funding its solar boom

According to the EU's Solar Energy Strategy, this includes training enough workers to manufacture, install, and maintain solar power systems, as



[Alphabetically](#)

Europe is a continent in the Northern Hemisphere of the Earth, bordered by the Atlantic Ocean to the west, the Arctic Ocean to the north, the Mediterranean Sea to the south, and Asia to the east, with an



[Europe , History, Countries, Map, & Facts , Britannica](#)

Europe, second smallest of the world's continents, composed of the westward-projecting peninsulas of Eurasia (the great landmass that it shares with Asia) and occupying nearly one



Europe

Europe is a continent forming the westernmost part of the land mass of Eurasia and comprised of 49 sovereign states. Its name may come from the Greek myth of Europa, but human

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