



MODERNIZATION SOLAR

Solar power with grid backup in France





Overview

What is solar power generation in France?

This graph provides an annual and monthly overview of solar power generation in France. The evolution of solar photovoltaic generation is an important parameter in the energy transition, as it is a renewable and low-carbon energy. In 2022, solar power generation rose sharply on the back of expanded capacity and good sunlight.

How much solar power does France have in 2025?

France is continuing its ambitious push into renewable energy, installing an impressive 4.2 GW of new solar capacity in the first nine months of 2025. This brings the nation's cumulative installed solar capacity to a significant 27.5 GW.

Why are French PV system owners using more solar power?

Lower payments for PV energy fed into the grid are pushing PV system owners in France to use more of their own solar power. The solar energy market in France is changing quickly. In 2024, the French government introduced significant cuts to feed-in tariffs (FITs) – the rates paid to PV system owners for feeding surplus electricity into the grid.

How many solar panels did France install in 2024?

From pv magazine France French grid operator Enedis said that France deployed 4,596 MW of solar in 2024, including 1,567 MW of self-consumption capacity, which accounted for 35% of new additions. The figure set a new record for France's PV sector, surpassing the 3,135 MW installed in 2023, 2.6 GW in 2022, and 2.8 GW in 2021.



Solar power with grid backup in France



[Frances brings live 3.5 GW of grid-connected solar in Jan-Sept](#)

According to the statistics provided by the French energy ministry's Department of Data and Statistical Studies (SDES), France had 1.08 million grid-connected solar parks in operation at

...



[France moves toward PV self-consumption ...](#)

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[France moves toward PV self-consumption amid feed-in ...](#)

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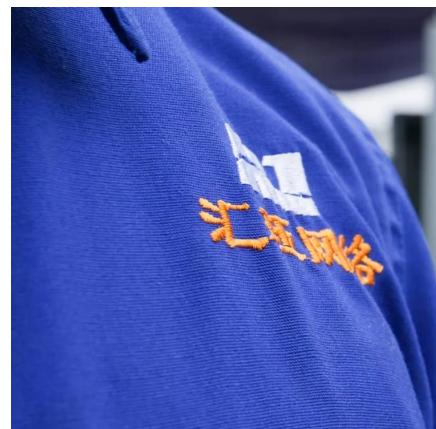
[Navigating France's Solar Power Grid: What Developers ...](#)

Nov 21, 2025 · France has pushed back its aims to scale down nuclear energy by 50% until 2035, postponing the urgency to connect renewable energy supply. Solar energy developers ...



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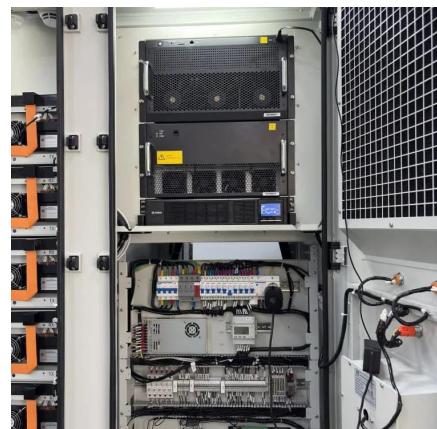
France brings live 3.5 GW of grid-connected ...

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France deploys 4.6 GW of PV in 2024

Jan 22, 2025 · France deployed 4.6 GW of solar in 2024, bringing its total PV capacity to 22.12 GW. Grid operator Enedis says that self-consumption accounted for 35% of new installations.



France Installs 4.2 GW of Solar PV Capacity in First Three ...

Oct 24, 2025 · Notably, among the newly grid-connected solar power facilities in the first three quarters, 82 MW of projects were equipped with energy storage systems, marking the initial ...



National Survey Report of PV Power Applications in France ...

This report offers a comprehensive analysis of France's photovoltaic market and developments over the past year. 2023 was a record-breaking year for PV installations in France, with a total ...



France solar power: Impressive 4.2 GW Added in 2025

Oct 24, 2025 · France Solar Power Growth: A Mid-Year Review for 2025 France is continuing its ambitious push into renewable energy, installing an impressive 4.2 GW of new solar capacity ...



Backup power for Europe

Oct 8, 2025 · France's BESS market is gaining ground as rising renewables, price volatility, and regulatory reforms improve conditions for grid-scale battery storage.

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