

# France solar power ria





## Overview

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Feed-in tariffs France is aiming to increase its solar PV capacity from 11.5 GW in March 2021 to 23 GW by the end of 2023. The country offers feed-in tariffs for small-scale solar PV up to 100 kWp on rooftops for self-consumption, with a specific grid tariff for collective users and exemption from the domestic tax on.

Solar power in France including overseas territories reached an installed capacity figure of 11.2 GW in 2020, and rose further to 17.1 GW at the end of 2022. Government plans announced in 2022 foresee solar PV.

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Solar PV installations in France started being substantial only from around 2008. Between 2009 and 2011 PV capacity grew almost tenfold, from a relatively low level. In its 2014 report "Global Market Outlook for Photovoltaics", the European Photovoltaic Industry.

- 6.23 MW • 11 MW



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### France aims for 48.1 GW of solar by 2030, 140 GW by 2050

The French government says it plans to install 48.1 GW of solar by 2030 and 140 GW by 2050. About 45 GW of the mid-century total will be generated via installations on wasteland, while 35 GW will

### Solar power in France

France is aiming to increase its solar PV capacity from 11.5 GW in March 2021 to 23 GW by the end of 2023. The country offers feed-in tariffs for small-scale solar PV up to 100 kWp on rooftops for self-consumption, with a specific grid tariff for collective users and exemption from the domestic tax on electricity for projects under 1 MW.



### Renewable energy in France

Hydro and solar power trends in France With an electricity capacity of some 26 gigawatts, hydropower accounted for a 14 percent share of the primary energy production from renewable sources

### 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.



## Renewable energy overview in France

In 2021, 22,5% of electricity generated in France was from renewable sources. In 2020, electricity generation from renewable sources is made up of: 49.5 % from hydro power; 32.4 % from wind power; 10.8 % from solar power; 2.9 % from biomass; 2.2 % from biogas; 1.7 % from renewable waste; 0.4 % from geothermal electricity; 0.1 % from tidal power

## Electricity generation in France

France's installed electricity generation capacity is mainly made up of nuclear, hydroelectric and fossil-fired power plants, as well as renewable power plants (wind, solar photovoltaic, biomass). French power production continues to change in 2022 and 2023, driven by the growth in renewable energy sources.



## National Survey Report of PV Power Applications in France 2023

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 of 4.0 GW of new photovoltaic capacity added to the grid, pushing the country's cumulative capacity to 24.5 GW DC.



## National Survey Report of PV Power Applications in France

Official statistics report the DC power of photovoltaic fields, as eligibility for Feed-in Tariffs and Tender support mechanisms is conditioned on peak DC power thresholds. It may be useful for the reader to know that the average generation across France is 1 160 kWh/kW, but that



## The way forward for solar in France

Recently, solar PPAs have started to pop up all across France, from rooftop airport projects to large ground-mounted plants. This is a good indicator that solar energy is now a competitive energy source in France. One of those PPAs was signed by ENGIE for a 18 MW solar plant in south-western France, which is scheduled to start operations in 2021.

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