Technology Collaboration Programme
by iea

International Energy Agency
Photovoltaic Power Systems Programme

FACT SHEET

Task 1 Analysis & Outreach

PVPS

National Survey Report of PV Power Applications in France 2024

August

2025

International Energy Agency
Photovoltaic Power Systems Programme

2024 National Survey Report of PV Power Applications in France

Key Highlights

Installations and Capacity: A record 6 GW of new PV was installed, pushing cumulative capacity to around 30 GW DC (25 GW AC), with more than two-thirds of new capacity on rooftops across residential, commercial and industrial segments.

System and Module Costs: Module prices continued to fall, dropping by 0.2 EUR/Wp in the residential segment, though rising costs for mounting and permitting kept utility-scale system costs relatively stable, with only a small decrease in overall costs.

Corporate PPAs: Corporate PPAs saw reduced attractiveness due to falling electricity market prices, leading to fewer new contracts initiated in 2024 compared to the volume of agreements initiated in 2023.

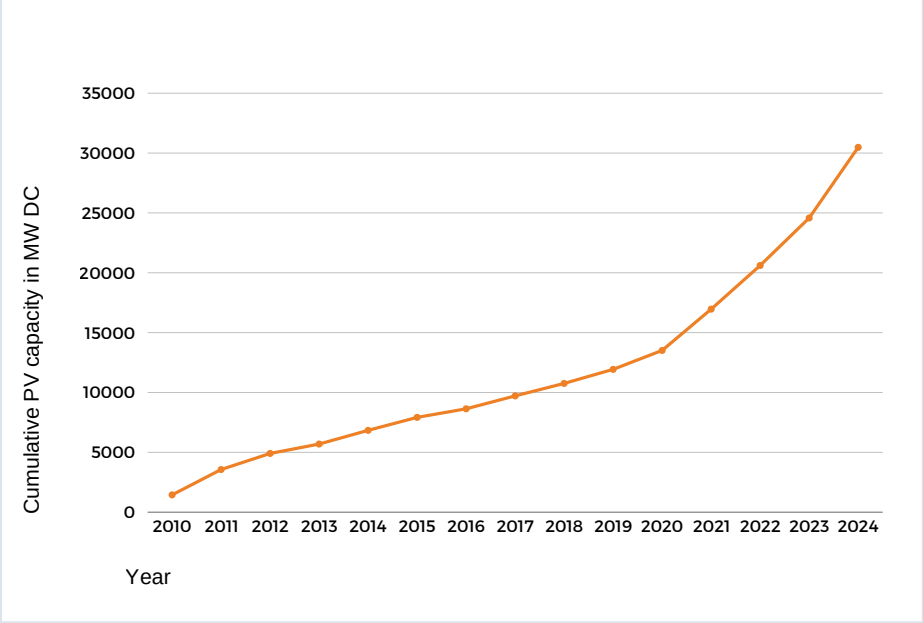
Project Pipeline: France's project pipeline remains robust, with over 6 GW in the grid connection queue holding signed preliminary DSO contracts and another 19 GW of projects with urban planning and environmental permitting authorised, highlighting the potential for strong future growth in commissioning.

Policy and Support Mechanisms: Changes in support mechanisms are expected to slow the volume of new residential and C&I projects from 2025, impacting commissioned volumes in 2026.

Breakdown of Installations

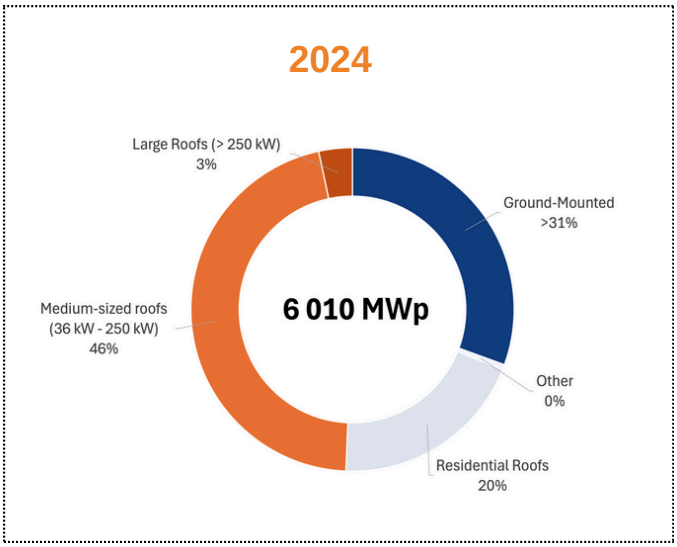
Type of System	Capacity Added in GW DC (2024)	Cumulative Capacity in GW DC
Decentralized (Residential, Commercial, Industrial)	4.1	16.6
Centralized (Utility-scale)	1.9	13.8
Total	6.0	30.5

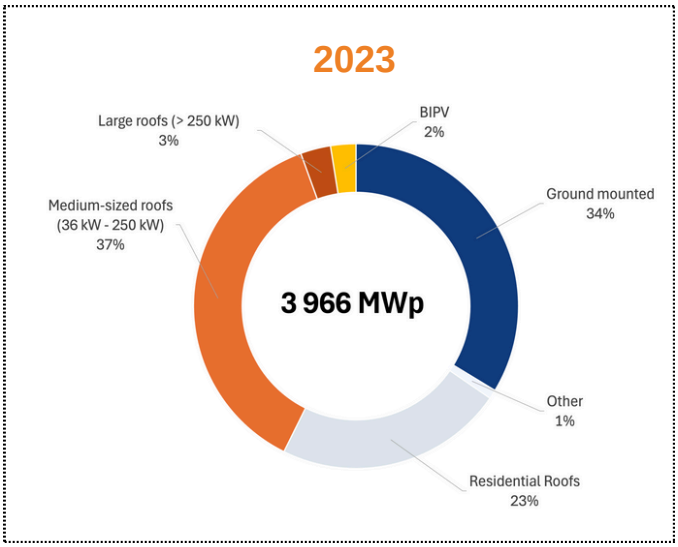
Cumulative PV Capacity in France (2010-2024)



Year	Installed PV Capacity (MW DC)
2010	1 400
2011	3 600
2012	4 900
2013	5 700
2014	6 800
2015	7 900
2016	8 600
2017	9 700
2018	10 800
2019	11 900
2020	13 500
2021	17 000
2022	20 600
2023	24 600
2024	30 500

Added Installed Capacity by Segment



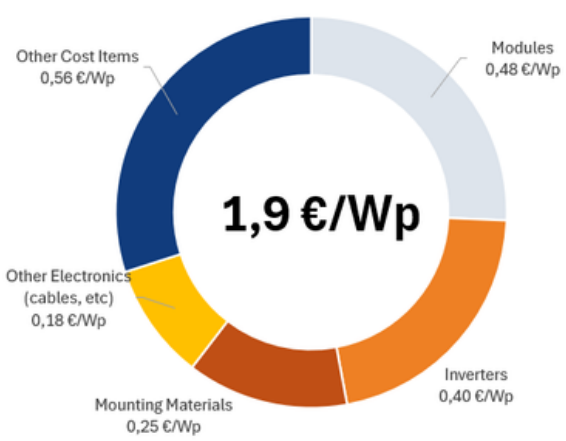


- In 2024, photovoltaic systems connected to the grid reached significantly higher volumes than in 2023.
- The medium-sized roofs segment saw significant growth in 2024.

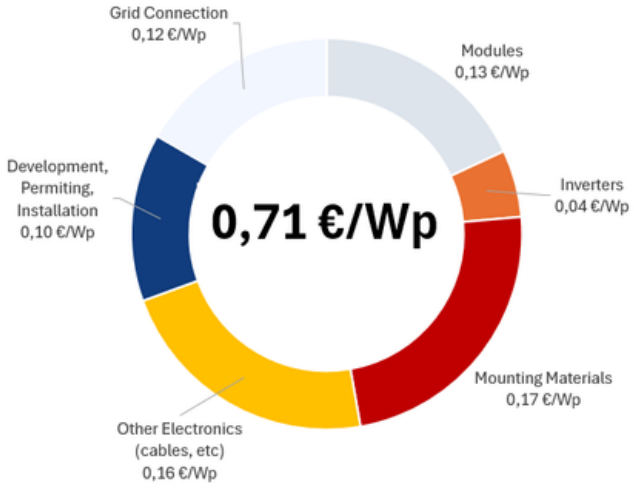
Competitiveness of PV Electricity

- In 2024, the price of mainstream modules for utility scale systems declined 25%, while modules prices for the residential sector declined by up to 45%.
- The main drivers of this drop remain high production capacity in China remaining well above the markets ability to absorb. With market barriers in North America and India, Chinese modules continued to be oriented towards the European market, with supply largely exceeding demand.

Average breakdown of investment costs €/W (excluding tax) for a rooftop installation of 5 to 10 kWp in 2024



Average distribution of investment costs in €/W (excluding tax) for a ground-mounted installation > 10 MWp.



National Targets

- **Long-Term Strategy:** France's PV policies are guided by the National Low Carbon Strategy (SNBC), targeting carbon neutrality by 2050, and the Multi-Year Energy Programme (PPE), outlining 10-year energy objectives.
- **Targets:** The PPE maintains the target of 44 GW (AC) of PV capacity to be reached by 2028. Public consultations on these updates are still ongoing.
- France's revised **National Energy and Climate Plan (NECP)** sets as a suggested target up to 60 GW of installed capacity by 2030, with the goal of installing between 5.5 and 7 GW per year. The focus would be primarily on utility-scale projects, followed by commercial and industrial systems.

Policies supporting PV

- **Open volume feed-in tariffs for BAPV :** Feed-in tariffs and net-billing tariffs are segmented according to system size and vary each trimester. In 2024, 3 312.8 MW of systems accessing the FiT were commissioned, nearly 80% more than in 2023.
- **Merchant and corporate PV** development consolidated in 2024 thanks to evolving regulatory frameworks, shifting economic pressures, and growing corporate responsibility regarding sustainability and energy independence. PPAs remained the principal mechanism.
- **Collective self-consumption:** The number of virtual metering projects doubled in 2024, with a total of 73.6 MW AC (+ 50.9 MW in 2024) across 698 projects and 7,232 consumers.
- **Calls for Tenders:** In addition to traditional tendering mechanisms, 2024 also saw the launch of an innovative scheme targeting PV deployment along the national highway network.

Outlook

After strong growth in 2024, support mechanisms were overhauled in early 2025, with a drop of some feed in tariffs and a planned shift to simplified tenders to allow the government more control over the volume of projects. This will mean reduced volumes in residential sectors in 2025. Amendments to mandatory solar laws may be loosened, and there is a strong pipeline of utility scale projects.

Want to know more?

If you are interested in more insights and detailed data, explore the full "National Survey Report of PV Power Applications in France".

About IEA PVPS Task 1

IEA PVPS Task 1 facilitates the global exchange of technical, economic, environmental, and social information on photovoltaic power systems. It supports the overarching mission of enhancing photovoltaic solar energy's role in sustainable energy transitions, focusing on providing authoritative market and industry insights through its annual market reports. These efforts are essential in guiding policy decisions and industry strategies to promote the adoption and development of solar energy globally.

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