



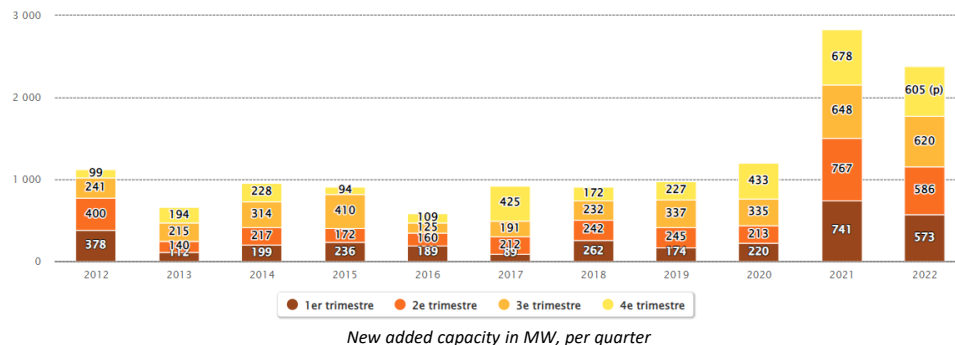
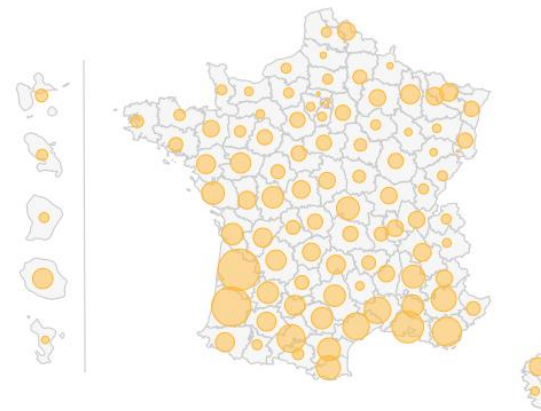
**MINISTÈRE
DE LA TRANSITION
ÉNERGÉTIQUE**

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PV IN FRANCE : OUTLINES OF THE REGULATORY FRAMEWORK

Development of the PV market

Solar PV	Number	Power (MW)
Installed capacity 31/12/2022	668 539	16 333
Installed capacity 31/12/2021	570 153	13 974
Evolution (%)	17	17
New installations for 2022	100 985	2 385
New installations for 2021	61 329	2 835

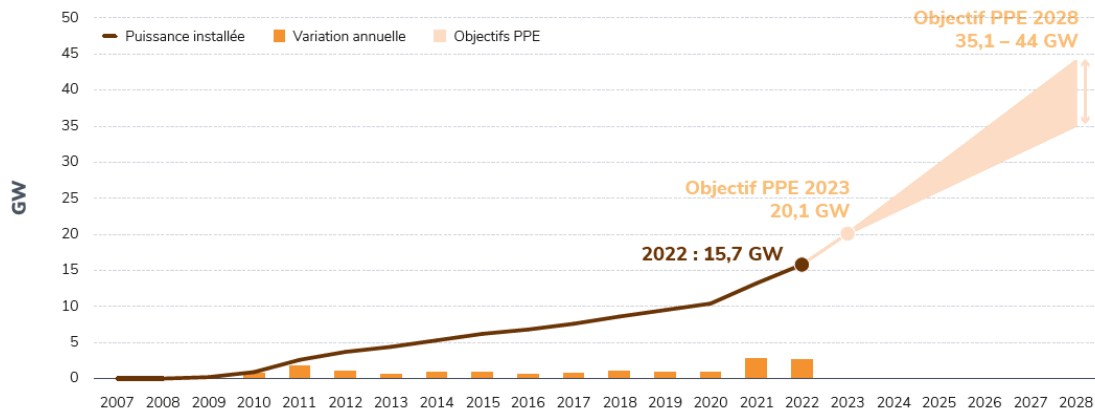


French objectives

(in GW)	End of 2023	End of 2028
Ground mounted PV	11,6	20,6 - 25
Rooftop PV	8,5	14,5 - 19
Total	20,1	35,1 - 44

At least **3,2 GW / year** :

- 2 GW – ground-mounted PV
- 0,9 GW – PV on large buildings
- 0,3 GW – PV on small buildings



Long-term objective :
> 100 GW in 2050

Support framework

Range (MWc)	PV on buildings	Ground mounted PV	Self-consumption	Innovative PV
0 – 0,5	Decree Feed-in tariffs	<i>Next to come (feed-in tariffs)</i>	Decree Feed-in tariffs	Tenders Feed-in premium
0,5 – 5	Tenders Feed-in premium	Tenders Feed-in premium	Tenders Feed-in premium	
5 – 10				
> 10				

Rooftop PV – Feed-in tariffs

The purchase conditions are detailed by the Decree of 6 Octobre 2021

- PV **on buildings** (including sheds and canopies)
- Up to **500 kWp**
- Electricity is bought at a fixed (yet indexed) price for **20 years**
- The power producer can choose between selling **the totality or the unconsumed part** of electricity
- **Investment premium** for self-consumption and BIPV (with strict conditions)
- Over 100 kWp, PV panels must respect a **carbon footprint upper limit**

- **Next to come** : feed-in premium above 400 kWp, indexation adjustments

Call for tenders

The rating criteria are defined in the specifications of each call for tenders

	Rating			
Criteria	Ground-mounted	Buildings	Self-consumption	Innovative
Proposed tariff	70	70	100	55
Carbon footprint	16	25	-	-
Degraded land	9	-	-	-
Participatory funding / governance	5 / 2	5 / 2	-	-
Innovation	-	-	-	45

Eligibility criteria :

- Installation type
- Power
- Novelty
- Carbon footprint (upper limit)
- Permitting
- Land type for ground-mounted PV

Call for tenders : Ground-mounted PV

The candidates must respect the specifications on the type of land.

The main categories are :

- **Urban areas**
- **Natural land**, excluding wetland and forest, with a green light from administration
- **Farmland**, only if the land is an agricultural fallow or used for breeding activity
- **Degraded land**, within the list detailed in the specifications

The candidate must request a **certificate of eligibility** from the administration, before applying.

Call for tenders : Buildings

Various types of installations are admissible :

- **Buildings** whatever their purpose (mostly industrial and commercial considering the power range)
- **Greenhouses**
- **Sheds** (for storage, animal housing, various sportive or educational activities ...)
- **Park lot canopies**
- **Agri-PV (agricultural canopies)**

The agri-PV installations were previously limited to the “Innovative” call for tenders. Their addition in this large tender will multiply the potential of these installations.

Call for tenders : Annual volumes

	Total allocated annual power (MW)	Number of application periods each year
3 240	Ground-mounted	1 850
	Buildings	1 100
	Self-consumption	150
	Innovative	140
	<i>Neutral (not only PV)</i>	<i>500</i>

The total allocated volume is greater than the annual target to account for potential lack of subscriptions and unaccomplished projects

Ground-mounted PV – Feed-in tariffs (work in progress)

The ministry is working on a decree that would be similar to the existing one for buildings, but dedicated to small-scale ground-mounted PV installations on degraded lands :

- Conditions for degraded lands similar to those defined by the call for tenders
- Up to **1 MWp** (feed-in premium above 400 kWp)
- Electricity would be bought at a fixed (yet indexed) price for **20 years**
- Possibility of self-consumption
- Carbon footprint upper limit

Potential of a few GWp that cannot get access to a support scheme for now : these projects are not competitive enough to be laureates of the tenders

Ongoing challenges

- The **economic context** leads to a lack of profitability for some projects : the ministry works on solutions to allow their construction : indexation of tariffs, sale on the electricity market, new call for tenders ...
- A significant pressure is observed on **land availability** and leads to the necessity to consider the installation of PV on agricultural lands in accordance with strict criteria to avoid any conflicts of use or unexpected impact on soil and biodiversity.
- A law dedicated to the **acceleration of the renewable energies development** has been voted by the French parliament a few months ago : regulatory texts are yet to come, dealing with :
 - Acceleration zones for renewable energies
 - Imposed installation of PV on buildings and parking lots
 - Easier permitting for renewable energies (biodiversity, littoral lands...)
 - Official definition of AgriPV



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