

# Photovoltaïque en milieu urbain

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MINISTÈRE  
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Ministère de la transition écologique et solidaire

[www.developpement-durable.gouv.fr](http://www.developpement-durable.gouv.fr)

# PV : national targets

The French Multiannual Energy Plan (Ppe) gives the national objectives to diversify the energy mix with incentives to raise renewable and recovered energy

	2016	MYEP 2016 – Objective 2018	2023	2028
Panels on the ground	3.8	5.6	11,6	20,6 à 25
Panels on roofs	3.2	4.6	9	15 -19,5
Total objective (GW)	7	10.2	20,6	35,6-44,5

ADEME estimates the potential for rooftop photovoltaic at around 350 GW  
CEREMA evaluated the ground and parking potential on land with no conflict of use to about 776GW.

New actions will be needed to achieve these objectives:

- A ministerial working group gathered all stakeholders on PV
- More than 40 measures were identified and endorsed by the government



# The national support scheme

PV on buildings under 100kW have access to a feed-in tariff (total injection or autoconsumption)

Call for tenders for PV :

- On buildings between 100kW and 8 MW
- PV the grounds between 500kW and 30 MW
- Autoconsumption between 100kW and 1 MW
- PV tender dedicated to innovative projects



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# The national support : detailed call for tender

## PV on the ground:

2019				2020				2021				2022				2023				2024				
T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	
	1000MW					1000MW					1000MW				1000MW				1000MW					
		1000MW					1000MW					1000MW					1000MW					1000MW		
			1000MW					1000MW						1000MW									1000MW	
				1000MW								1000MW												1000MW

## PV on buildings

2019				2020				2021				2022				2023				2024			
T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4
300 MW																							
	300 MW																						
		300 MW																					
			300 MW																				
				300 MW																			
					300 MW																		
						300 MW																	
							300 MW																



# Focus on urban areas

## Tendering process :

- PV on building notation : price for 70%, carbon footprint for 30%
- PV on the ground notation :
  - price for 70%, carbon footprint for 21%, degraded land for 9%.
  - criteria :
    - Project on urban areas
    - Project on degraded land
    - For projects on natural land, exclusion for wetlands and some forests.



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# Focus on urban areas

These supports mechanism can be used to develop PV :

- On private or public buildings ;
- On parking shadehouses;
- On degraded land that cannot accommodate other developments

Other regulations to develop PV :

- New commercial buildings above 10 000 m<sup>2</sup> can be authorised only if they have PV on the rooftop or a vegetalized rooftop;
- Energy consumption objectives for building.



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# Focus on autoconsumption

## Currently

- 20 000 installations fin 2017 (73MW), 39 000 fin 2018 (143 MW)
- Collective autoconsumption : around 10 in operation, 100 under development.

## Actions under development

### Collective autoconsumption projects:

- currently, collective autoconsumption is allowed for projects on the same low voltage substations.
- experiment to extend the size

### Individual autoconsumption :

- Measures to simplify some tax exemption mechanism



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# Actions under development to ease PV in urban areas

- « Solar Cities » Label under development with ADEME, AMF, FNCCR and AMORCE
- Dedicated working groups for :
  - PV and local authorities
  - PV and historical building.
- Guide and instruction to ease PV permitting process
- Mobilization of large landowner to develop PV : large retail, SNCF, ministry for Defense took commitments



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# Conclusion

- Developing PV in urban areas is key to achieve our national commitments
  - Involvement of local authorities
  - Opportunity for every landowner or building owner to be an active member of the energy transition
  - Innovation is needed



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