Photovoltaïque en milieu urbain

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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.

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>MYEP 2016 – Objective 2018</th>
<th>2023</th>
<th>2028</th>
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<tbody>
<tr>
<td>Panels on the ground</td>
<td>3.8</td>
<td>5.6</td>
<td>11.6</td>
<td>20.6 à 25</td>
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<tr>
<td>Panels on roofs</td>
<td>3.2</td>
<td>4.6</td>
<td>9</td>
<td>15 -19.5</td>
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<tr>
<td>Total objective (GW)</td>
<td>7</td>
<td>10.2</td>
<td>20.6</td>
<td>35.6-44.5</td>
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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
The national support: detailed call for tender

**PV on the ground:**

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<tr>
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**PV on buildings**

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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.
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 m2 can be authorised only if they have PV on the rooftop or a vegetalized rooftop;
- Energy consumption objectives for building.
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
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
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