

Ground-based photovoltaic power plants : between competitiveness and land-use planning

Territorial perspective about photovoltaic power plants development

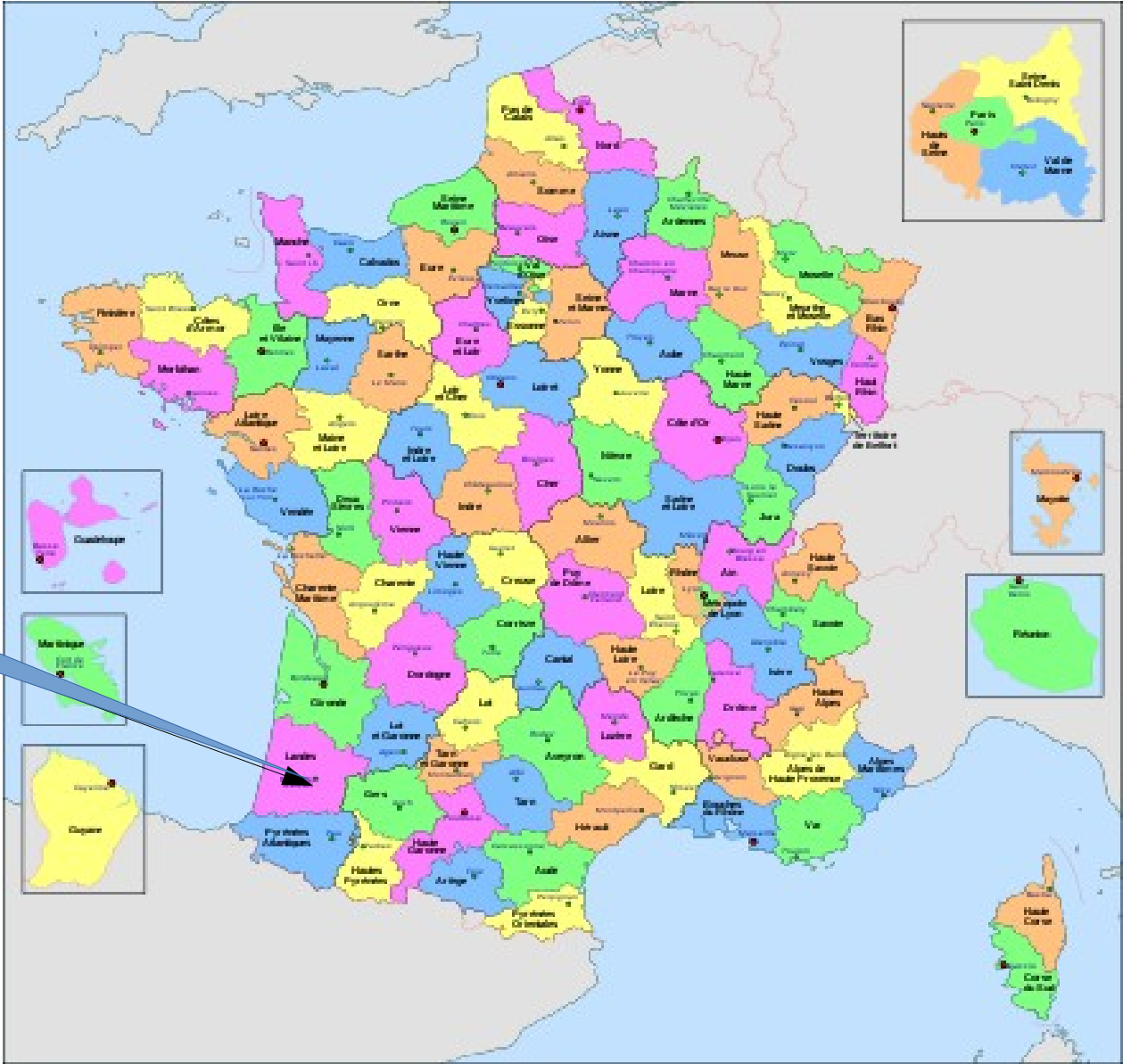
Summary

- The background
- Situation of the department of the Landes
- Development perspectives
 - The guidelines
 - The tools
 - A double order in a complicated regulatory framework
 - The planning : a local political commitment
 - Local Specifics features
 - The latest trends

The background

- National
 - The multi-annual planning for energy provides an increase by four of photovoltaic by 2028
 - A priority is given to the photovoltaic development on artificialised land in order to protect natural, agricultural and forest areas
- Regionally
 - The regional scheme of sustainable development and of equality of territories in Nouvelle-Aquitaine sets itself an ambitious objective : 45 % of renewable energies by 2030 more than the national objective of 32 %
 - It previews a decrease of half the use of natural, agricultural and forest land
- Locally
 - Documents of planning : territorial coherence scheme, urban planning), climate change actions plans Territoriaux (PCAET) take into account or are compatible with national and regional rules and laws. They are managed by municipalities or municipalities groups

Situation of the department of the Landes



Landes

Situation of the department of the Landes

- PV plants have developed since the storm called Klaus in december 2009 wich destroyed a big part of the forest area of the Landes de Gascogne, the biggest forest in europe
- Municipalities deprived of wood sales from the forests they own are looking for new financial ressources
- The department has wide flat and accessible spaces
- Te sunshine is important

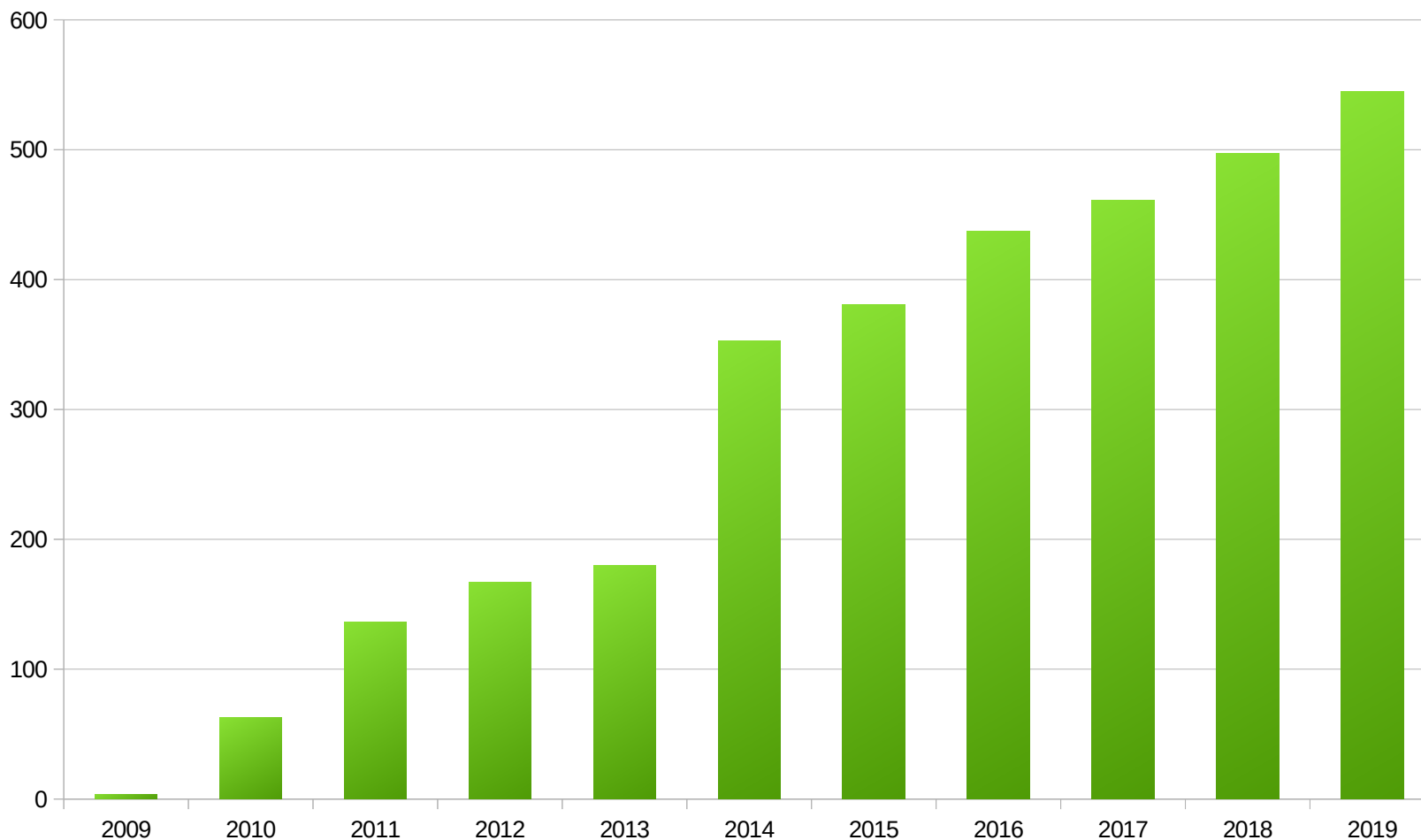
Situation of the department of the Landes

- The department of the Landes is the second department of France in terms of photovoltaic
- 520 MW for the start of 2020
- 40 running photovoltaic plants located according opportunities
- 1200 ha of land employed
- One plant covering 300 ha, the oldest, was launched in 2011 with a capacity of 67 MW

Situation of the department of the Landes

Photovoltaic power connected in MW

Photovoltaic power connected in MW



Development perspectives

- Guidelines adopted by the french State at the various territorial levels :
 - National: Guide to instructing building permits
 - Regional: State guidelines for the development of renewable energies in Nouvelle-Aquitaine, which foresees some large plants limited to 300 hectares (250 MW) per project
 - Local: study in progress for the elaboration of a departmental strategy in collaboration with the Departmental Council and the municipalities groups
 - Projects with a 1800 MW power identified to be connected to the regional electrical network

Development Perspectives

- Tools initiated by the french State:
 - regional and departmental renewable energy hubs
 - The departmental hub has a an operational committee that welcomes developers from the begining of projects as a facilitator to achieve a building permit delivered by the State
 - A national ADEME study to estimate available artificialized surfaces complemented by local initiatives to locate parcels to be valued

Development perspectives

- A complex regulatory framework to respond to a dual injunction of:
 - Developing renewable energy
 - preserving natural, agricultural and forest areas and the landscape
- Planning documents (Plui, PCAET) that reflect a local political will to develop photovoltaics: location and zoning adapted
 - Urbanised areas or to be urbanized areas
 - Agricultural or natural areas if photovoltaics is compatible with the natural, agricultural or forestry character of the land

Development perspectives

- Local Specifics features :
 - Forest clearing authorization
 - Derogation for destroying protected species or their habitats

needed in many situations as residual impacts remain after the « Avoid Reduce Compensate » sequence

These residual impacts increase with project size and require significant compensations

Development perspectives

- compensation for clearing forest and destroying protected species are not cumulative on the same area for the most frequent species and pose challenges for major projects

Development perspectives

- Latest trends :

Emergence of agri-voltaic projects on drinking water capture protection perimeters and floating photovoltaic projects

Reflections in the framework of the departmental commission for the protection of agricultural and forest natural areas to write a charter for photovoltaic development



Thank you

Michel GARBAGE

Direction départementale des territoires et de la mer des
Landes

Michel.garbage@landes.gouv.fr

33 5 58 51 31 20