EDF Energies Nouvelles is a 50% owned subsidiary of the EDF group. EDF EN is present in 10 European countries and in North America, and is one of the leaders in the renewable energies market, and particularly photovoltaic solar energy.

The group’s objective is to reach a net installed capacity of 500MWP by the end of 2012. To achieve this, it has started the construction of the Gabardan photovoltaic power plant in the French department of Landes. This power plant has a potential total capacity of 76MWP.

The power plant will be built on a 780-acre plot of land in the municipality of Losse in the Aquitaine region of France. There are 2 projects to this power plant: an innovative pilot project of 11,100 modules mounted on solar trackers, with an installed capacity of 2MWP, and 1,020,000 fixed photovoltaic modules, with an installed capacity of 74MWP.

The future production of this power plant, which will be connected the national electricity grid, will be equivalent to the electrical consumption of almost 40,000 inhabitants.
**Substation turnkey solution including:**

For the “fixed” project:
- 20 transformation stations of 1 MVA each, equipped with:
  - > 2 GT500 inverters
  - > 1 X 1000 kVA low loss transformer
  - > 1 X medium voltage cubicle

Sizing, supply, installation, commissioning and maintenance.

For the “pilot” tracker project:
- 2 transformation stations of 1 MVA each
- 1 grid connection station
- 40 array boxes
- All cables linking the two transformation stations and the grid connection station

Sizing, supply, installation, commissioning and maintenance

For both the “fixed” and pilot “tracker” projects:

**Monitoring system:**
- Data acquisition centre in each transformation station
- Global data acquisition centre in the grid connection station
- Local and remote monitoring station

**OTHER REFERENCES**
- Ground-based arrays
  - France - Réunion Island - SAPRIM (1 MW)
  - Spain - Badajoz - Almendralillo (4 MW)
  - Spain - Almeria (7.76 MW)
  - Germany - Rote Jahne (6 MW)
  - France - Vinon Sur Verdon (4.2 MW)
  - France - Les Mées 1 (12 MW)
- Buildings
  - Spain - Saragossa (10 MW)
  - Spain - Villacañas - Toledo (2.5 MW)
  - Spain - Molina De Segura - Murcia (300 KW)