If a local authority wants to effect an energy transition this requires getting the public actively involved; they then become both power consumers and generators. This is why Metropole Nice Côte d’Azur is focused on developing smart grids in order to create independent power networks (loops) at a local level and provide new opportunities for encouraging consumers to reduce their energy consumption.

The Metropole therefore plans to deploy 6 local smart grids (FlexGrid Plaine du Var project) by taking advantage of the ongoing deployment of Linky and Gazpar smart meters in the NCA region. The urban area will therefore be home to the biggest Smart Grid in France.

Two first generation Smart Grid prototypes have already been tested in the urban area:

- **The REFLEXE project**, in Nice, made it possible to determine the demand side management scenarios in the event of surplus generation of solar PV power or a temporary disruption of supply to the national grid,

  In partnership with: Veolia, Dalkia, Alstom, Sagemcom, INES CEA and Supélec. This project was supported by NCA, ADEME and the CAPENERGIES competitive cluster and was funded by the State (PIA).

- **The NICE GRID project**, in the Carros mixed residential and industrial joint development zone, has made it possible to examine the characteristics of an energy management solution which manages power generation, storage and consumption in real time: including photovoltaic power generation, testing the capacity of energy storage using urban batteries, and testing peak shaving. This project will be continued within the Nice Mérida industrial zone, supported by a hundred local start-ups

  In partnership with: Alstom, Groupe EDF, Armines, Soft and Daikin. This project was supported by ADEME, local authorities and the CAPENERGIES, competitive cluster and was funded by the State (PIA) and the EU (Grid4U).

**Objectives:**
- Change user habits to encourage reduced demand
- 80% of building energy demand under control in 2017
- Expected gains: 10 to 20% energy savings