

THINK SMARTGRIDS BRINGS TOGETHER A FULL ECOSYSTEM

OBSERVING MEMBERS



ASSOCIATED MEMBERS



PARTNER MEMBERS



Schools, research centers and labs

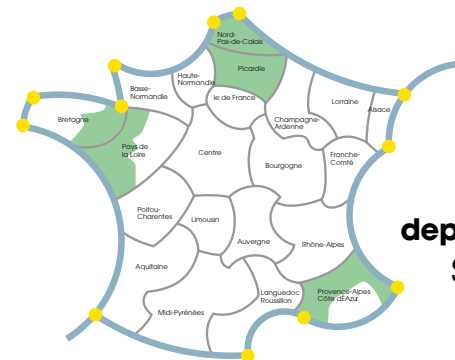


OVER 100

members
from the entire smart
grids ecosystem

OVER 120

demonstrators
showcasing the French
expertise in smart grids
across France



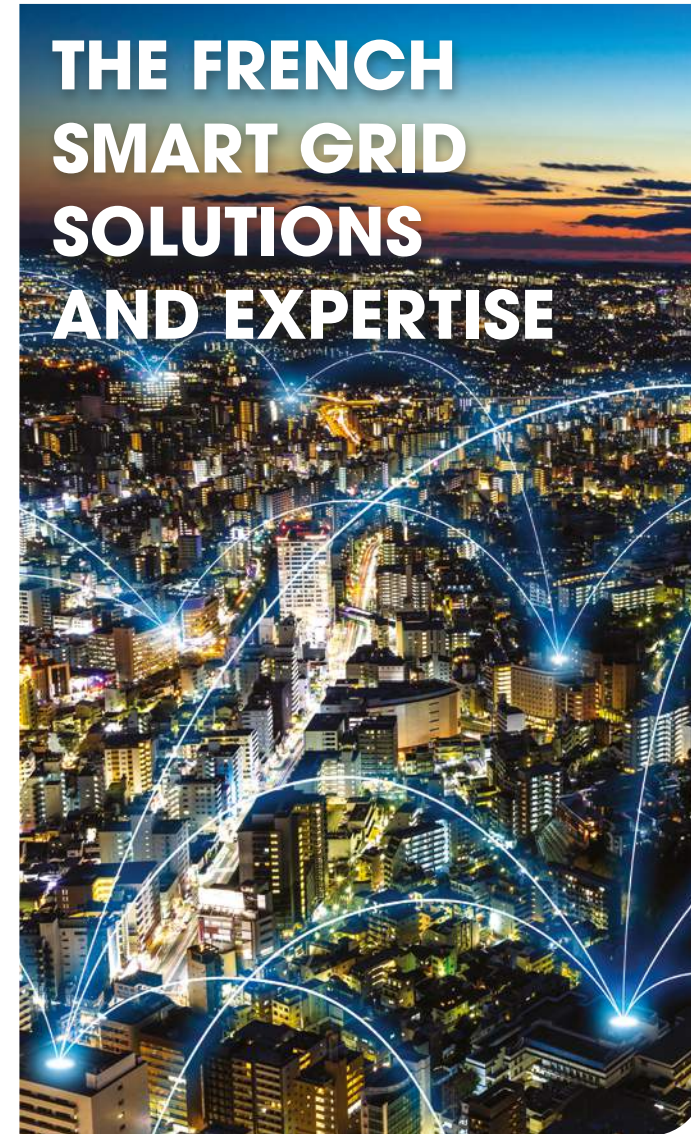
3

industrial
deployment projects :
SMILE, FLEXGRID,
YOU & GRID



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THE FRENCH SMART GRID SOLUTIONS AND EXPERTISE



FRENCH SOLUTIONS FOR SMARTGRIDS

THINK SMARTGRIDS FEDERATES FRENCH SMART GRIDS STAKEHOLDERS

Think Smartgrids federates and represents the French smart grid ecosystem, with a hundred members from the entire smart grids value chain: electronic engineering, utilities, automation, telecommunication equipment and information systems, business models, training, and regulation.

The association is dedicated to federating the French smart grid sector in France and developing international collaborations through MoUs and its participation in exhibitions and events.

Think Smartgrids is a member of the **Global Smart Grid Federation**.

THE FRENCH SMART GRID EXPERTISE AND SAVOIR-FAIRE

Think Smartgrids members offer a wide range of solutions, covering the entire value chain of smart grids. France has a well-structured and equipped smart grid ecosystem allying industrial groups, SMEs and startups with universities, schools, research centers and labs.

FRANCE, A LEADING INVESTOR IN SMART GRIDS

France is Europe's top investor in smart grid R&D, with more than 100 million euros invested annually, and cumulates **10% of the global market shares**. In ten years, **more than 120 demo-projects** have been launched across its territory.

FRENCH SMARTGRIDS SOLUTIONS



Research and expertise

- Multi-criteria cost-benefit analysis: environmental, societal and economic
- Audit and expertise of the electric system
- Advice on the implementation of new markets and business models
- Training of users and decision-makers



Grid management and operation

- Grid operation: observability, remote operations, dispatching, supervision, flexibility, quality of supply and safety
- Asset management: economic performance, maintenance and modernization of infrastructures
- Comprehensive microgrid solutions
- Reduction of technical losses



Integration of renewable resources

- Integration of renewable energies into the grid.
- Implementation of smart connections: grid code, load shedding...
- Contribution to cost-effective energy transition



Use of data

- System operation (data and open data)
- Management and optimization of public policies, predictive and prescriptive analysis...
- Valuation of smart meter data
- Cyber security



New uses

- Solutions for Smart Buildings / Smart Factories
- Electric mobility: charging stations, V2G, smart charging, batteries...
- Design and construction of Smart city networks



Role of the Prosumer

- Role of the prosumer in the flexibility, demand response, self-consumption, storage...
- Deployment of smart metering and multi-metering systems
- Reduction of non-technical losses

3 INDUSTRIAL PROJECTS AT A REGIONAL SCALE

The large-scale deployment of smart grids is a major challenge. **FLEXGRID, SMILE and YOU & GRID** are three French projects deployed at a regional scale, initiated as part of the government's smart grid plan in 2014, with several sources of both private and public funding and investments.



Flexgrid, a project supported by the South Region (Provence and French Riviera), includes 40 completed or on-going projects, for a budget of € 150 million. The project focuses on the self-consumption of photovoltaic energy, smart territories, the synergies between renewable energies, smart mobility, smart industry/ airports/ ports and energy optimization.



Smile, deployed in the west of France, covers two regions (Brittany and Pays-de-la-Loire), several islands, two large cities, a growing EnR production and the highest potential for marine renewable energy in France. The aim is to massively integrate and store renewable energies, to improve flexibility and demand management, to develop electric mobility, and to secure networks and the supply of electricity. 44 projects, nearly 200 stakeholders and a hundred companies are involved. The SMILE smart grids showroom opened in 2019, in Rennes and Nantes.



You & Grid aims to develop piloting tools and to experiment with new uses in 15 cities of Lille Metropole. You & Grid is testing models for communities, distributors and end-users from already proven digital solutions. The projects focus on the self-consumption of photovoltaic energy in areas that include businesses, administrations and communities, controlling electricity terminals and optimizing flexibility management by optimizing consumption.