

# DISCOVER THE FRENCH SMART GRID EXPERTISE



FRENCH SOLUTIONS FOR SMARTGRIDS

# Who are we?

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

The association is dedicated to promoting the smart grid sector in France and around the world.

# ASSOCIATED MEMBERS / OBSERVERS



# PARTNER MEMBERS



# THE FRENCH SMART GRID EXPERTISE AND SAVOIR-FAIRE

Think Smartgrids members offer a wide range of solutions covering the entire value chain of a smart grid. France has a well-structured and furnished smart grid ecosystem allying public authorities with associations and private entities, with actors operating in areas ranging from fundamental research to industrial applications. France is Europe's top investor in smart grid projects and cumulates 10% of the global market shares, with more than 120 demonstrators across its territory.

[www.thinksmartgrids.fr](http://www.thinksmartgrids.fr)



# NETWORK GRID ASSET MANAGEMENT

## WHAT IS AT STAKE?

Utilities are facing significant challenges, including a rapid increase in intermittent and remote generation, aging infrastructures and significant changes in the energy demand. Designing and operating a reliable and efficient energy grid infrastructure will require to optimize asset management investments and maintenance strategies.

## FOR WHICH MARKET?

Our solutions are designed for the whole Asset Management value chain, with a focus on electrical TSOs and DSOs.

## OUR SOLUTIONS

Smart data collection, sensed cable accessories, marker balls for locating and traceability, centralized cloud-based data warehouse, predictive and prescriptive analysis... French actors are developing a wide range of solutions for advanced hardware, smart data collection and storage and advanced analytics.

### MEMBERS INVOLVED

**3M, Accenture,  
Atos, CIAT IT,  
Cosmotech, DC Brain,  
Enedis, Nokia, RTE,  
Schneider electric,  
SENSeOR, Smile**



# SMART HOMES AND SMART BUILDINGS

## WHAT IS AT STAKE?

Buildings represent 50% of the world energy consumption and even more in the future, due to urbanization. Advanced information and communication technologies can make buildings and homes more efficient, flexible and connected. Smart buildings or homes provide an improved comfort, energy savings and cost-effectiveness throughout their lifecycle.

## FOR WHICH MARKET?

French solutions address: citizens, industries, estate agents and local authorities.

## OUR SOLUTIONS

- Smart devices
- Storage solutions
- Load management systems
- Energy efficiency
- Demand response



### MEMBERS INVOLVED

**Accenture,  
Enedis, Ensto,  
Schneider electric,  
SenX, SMILE,  
Voltalis**

# ENERGY STORAGE SOLUTIONS

## WHAT IS AT STAKE?

Energy Storage can enhance flexibility for decarbonized, decentralized and digitalized electricity systems.

Integrating primary and secondary reserves or other ancillary services will be key for grid frequency and voltage stability, peak load management, integration of variable renewable generation, optimized energy management and self-consumption.

## FOR WHICH MARKET?

French solutions concern four main market segments:

- integration of variable renewable generation,
- ancillary services for TSO and DSO,
- end user energy management,
- off-grid electrification.

## OUR SOLUTIONS

- Energy storage and management solutions embracing field experience in interconnecting DER and ESS for optimum control of power flows and grid stability.
- Expertise in R&D, market design, regulation, test and operation of storage systems.

## MEMBERS INVOLVED

Accenture,  
Enedis,  
RTE,  
SAFT,  
Smile,  
Socomec



# IOT FOR SMART GRID

## WHAT IS AT STAKE?

Connected devices and the data they produce are creating new challenges and opportunities that are having a profound impact on Utilities' business. IoT for smart grid improves grid performance and energy efficiency by a collaborative and agile network of capabilities.

## FOR WHICH MARKET?

French solutions can suit the needs of all Utilities, cities, business partners and end customers.

## OUR SOLUTIONS

- A full range of solutions, from connected things to network connectivity, smart grid solutions and data service platforms.
- Expertise in designing, implementing and operating end to end IOT systems for smart grids with a high level of performance and Security.



## MEMBERS INVOLVED

Accenture,  
Actility, Atos,  
DC Brain, Enedis,  
Nokia, RTE, Sagemcom,  
SENSeOR, SenX,  
Sicame, Smile,  
Voltalis

# MICROGRIDS

## WHAT IS AT STAKE?

Islanded grids and areas remote from power grids are facing multiple challenges, notably the difficulty to ensure the security and stability of their electricity systems, while integrating more renewable energy sources to lower their high dependency on fossil fuels. In such areas, microgrids can reconnect customers faster in the event of power outages, improve overall service quality and allow the massive integration of renewable energy sources.

## FOR WHICH MARKET?

French solutions are designed for utilities.

## OUR SOLUTIONS

French actors provide different energy management and flexibility solutions, coupled with decentralized storage capacities in order to make it possible for isolated territories to integrate a high rate of renewables while ensuring grid stability.



## MEMBERS INVOLVED

3M, Atos, DC Brain,  
SAFT, Sagemcom,  
Schneider electric,  
Smile, Socomec,  
ZIV Automation

Over  
**120**

## **demonstrators**

showcasing the French  
expertise in smart grids  
across France



**OVER  
100**

**ACTIVE  
MEMBERS**

all along the value chain

**3 industrial  
deployment projects:**  
SMILE, FLEXGRID, YOU & GRID



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