



FRENCH SOLUTIONS FOR SMARTGRIDS

# Who are we?

**Think Smartgrids, chaired  
by Philippe Monloubou (Enedis CEO),  
promotes the French smart grids sector  
and assists its members  
in their development in France,  
Europe and around the world.**

**Our mission :** secure the future  
of the smart grids sector in France.



# ENERGY STORAGE SOLUTIONS

## THE CHALLENGE

Providing flexibilities all along the electricity value chain in a decarbonized, decentralized and digitalized electricity system integrating massively variable renewable generation.

## DEFINITION

Delivers multiple flexibility functions to multiple stakeholders in generation, transmission, distribution and end use of electricity.

## FOR WHICH MARKET?

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

## PARTICIPATING MEMBERS

CEA Tech, RTE, SAFT,  
Levisys, Socomec,  
Schneider Electric,  
General Electric, EDF,  
Cofely Ineo, Enedis

## 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 reflecting years of experience in smart grid operations.

# SMART BUILDINGS & SMART HOMES

## PARTICIPATING MEMBERS

Schneider Electric,  
Sagemcom, Atos, Nokia,  
Ijenko, WIT, Accenture



## THE CHALLENGE

Buildings already represent 50% of the world energy consumption today, they will represent 80% in the next 25 years due to urbanization.

## DEFINITION

Smart buildings (or smart homes) integrate advanced technologies for an improved performance, an higher reliability and cost-effectiveness throughout. They are by nature efficient, flexible and connected.

## OUR SOLUTIONS

- sensors and actuators,
- systems of generation,
- storage, load management systems,
- and energy management.

## FOR WHICH MARKET?

Our solutions address residential customers and local authorities in ecodistrict.

## THE CHALLENGE

Proliferation of connected devices and the data they produce are creating new opportunities that are having a profound impact on utilities business.

# IoT FOR SMART GRIDS

## DEFINITION

IoT for smart grid federates connected objects, network connectivity, middleware, applications and service platforms in order to improve power quality, grid performance and energy efficiency.



## FOR WHICH MARKET?

IoT for smart grid creates new business opportunities for Utilities, business partners and end customers.

## OUR SOLUTIONS

Our solutions range from connected objects, gateways and network connectivity, up to the applications dedicated to grid and energy management and cloud platforms of services.



## NETWORK GRID ASSET MANAGEMENT

## THE CHALLENGE

Enabling utilities to provide reliable and efficient grid infrastructure by optimizing asset management investment and maintenance strategies.

## PARTICIPATING MEMBERS

Atos, Saft, Sagemcom,  
Nokia, Socomec,  
Schneider Electric,  
Trialog, Accenture



# FLEXIBILITY MANAGEMENT

## THE CHALLENGE

Increasing renewable energy penetration has long-term effects in favour of demand response: growing need for reserves and regulation, new Requirements for network Support, creation of capacity markets. How to use them effectively?

## OUR SOLUTIONS

The french smartgrids players can provide expertise in market design, community Self-Consumption, demand/response and virtual power plant aggregation, smart metering, community energy management, local Automation for Home and Buildings etc..

## FOR WHICH MARKET?

Our solutions are mainly addressing electrical TSO and DSO utilities.

### PARTICIPATING MEMBERS

ABB, Actia, Adeunis,  
Actility, Ericsson, General Electric,  
Sagemcom, Schneider Electric,  
Siemens, Socomec,  
The Cosmo Company,  
Cahors, SENSEOR,  
Accenture

## DEFINITION

Flexibility management is the action of modifying generation and/or consumption patterns in reaction to an external signal (such as a change in price) to provide a service within the energy system.

## FOR WHICH MARKET?

TSOs, DSOs, market participants, distributed resources...

### PARTICIPATING MEMBERS

GE, RTE, Actility, Socomec,  
Enedis, Schneider Electric,  
Ijenko, Yele, CEA,  
Trialog, Accenture

## DEFINITION

Designing, operating and maintaining successful energy networks by using new hardware capabilities, smart data collection and storage capacities and advanced analytic solutions.

## OUR SOLUTIONS

France Smart Grid sectors offers a full range of solutions for the whole asset management value chain.

**... And so many  
other knowledges  
& competencies.**

# ASSOCIATED MEMBERS / OBSERVERS



## PARTNER MEMBERS



# 100

## PROJECTS

showcasing the French expertise  
in smart grids across France



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



# OVER 80

## MEMBERS SIGNED UP



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