



# **Making the most of Smart Grid project results:**

## **Dissemination and sharing**

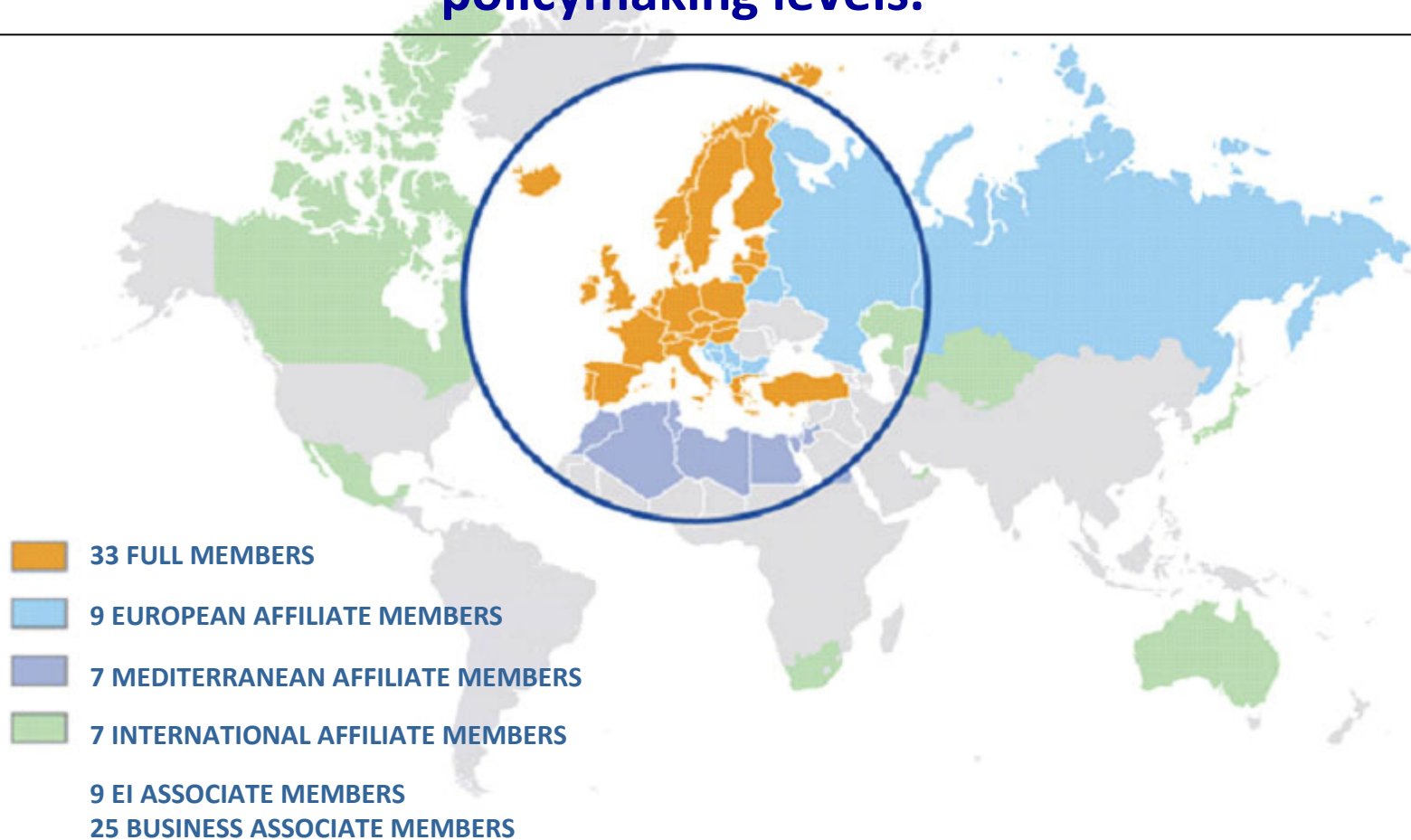
**Gunnar Lorenz**

---

Head of Unit, Networks

Washington DC, 7 November 2011

**Representing the electricity industry at expert, strategic and policymaking levels.**



**EURELECTRIC represents the EU electricity industry, across the whole electricity value chain**

**ENERGY POLICY  
& GENERATION**



**MARKETS**



**ENVIRONMENT  
& SUSTAINABLE  
DEVELOPMENT**



**DISTRIBUTION  
NETWORKS**



*The voice of the European Electricity Industry in Brussels, the heart of Europe*

## EURELECTRIC Distribution Networks Working Groups

- **WG Distribution Regulation & Policy**
- **WG Customers & Operation**
- **WG Smart Grids**
- **WG Standardisation (plus sub groups)**
- **TF Electric Vehicles**
- **WG Transmission-Distribution Interface**
- **WG Transmission Technology**
- **DSO Coordination for Smart Grids Deployment**

## DSO Coordination for Smart Grids Deployment

### CONTEXT

- Pooling of research
- Knowledge sharing
- Demonstration results in diverse areas
- DSO as major investor
- Smart Grids investment support needed

### OBJECTIVES

1. Deliver a comprehensive overview of Smart Grid projects in Europe  
--> Smart Grids catalogue  
--> Website
2. Asses project's lessons learned and identify best practices: design a proper evaluation framework
3. Strengthen the DSO perspective on RD&D regarding SG within the electricity value chain

## A Collaboration between EURELECTRIC and JRC...

Both organisations recognized the need to...

- ✓ ...**share knowledge** about Smart Grid experiences and learnings across the industry
- ✓ ...**build upon the best practices** of others to prevent inefficiencies and to accelerate the transition
- ✓ ...**disseminate the information of the catalogue and JRC mapping** towards all stakeholders
- ✓ ...**have a tool that allows leveraging recommendations and Smart Grids needs** towards policy makers

## A Collaboration between EURELECTRIC and JRC...



➤ Collection of data



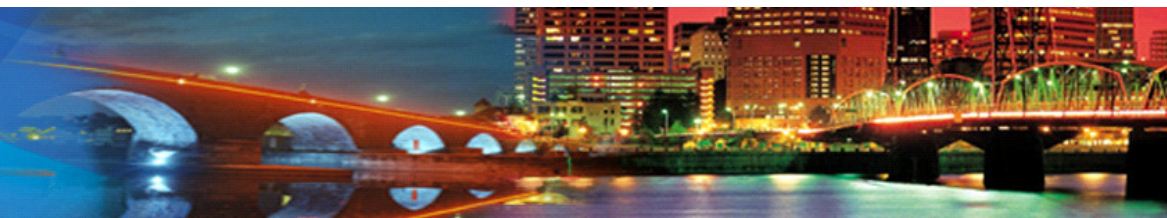
➤ Collection of data



➤ Catalogue of projects

➤ Set-up of IT-platform





...the result: [www.smartgridsprojects.eu](http://www.smartgridsprojects.eu)

## Welcome

Intelligence and innovation in electricity infrastructure are essential to reach the EU's 2020 climate change and energy policy objectives: grids have to become smarter. A smart grid is an electricity network that can intelligently integrate the behaviour and actions of all its users to ensure a sustainable, economic and secure electricity supply, thanks to the pervasive incorporation of intelligent communication monitoring and management systems.

Initiatives on smart grids have been growing in number and scope throughout Europe for the past few years. To further support the transition to the intelligent power system of tomorrow, EURELECTRIC and the European Commission's Joint Research Centre have developed this online knowledge-sharing platform to provide public information on smart grids projects. We hope that this website will provide a useful tool to share and pool the research, technological development and demonstration results of the different smart grids projects that exist throughout Europe.

“Sharing knowledge to foster support for smart grids”

### Smart Grids Projects



The interactive map of smart grids projects provides an overview of the smart grids development in Europe. It contains the most up-to-date information regarding smart grids projects in individual EU member states and at European level.

### Contact



Koen NOYENS  
Policy Officer

+32 2 515 10 45

[knovens@eurelectric.org](mailto:knovens@eurelectric.org)

Gunnar LORENZ  
Head of Unit

+32 2 515 10 54



Vincenzo GIORDANO  
Scientific Officer

+31 224 56 51 73

[vincenzo.giordano@ec.europa.eu](mailto:vincenzo.giordano@ec.europa.eu)

Gianluca FULLI  
Action Leader

+31 224 56 52 66

### Interactive Map



GO TO THE MAP







[www.smartgridsprojects.eu](http://www.smartgridsprojects.eu)



### SMART GRIDS PROJECTS IN GERMANY

#### ADELE Project AA-CAES

**Organization:** RWE Power AG, (DE)

**Period:** Dec 2009 - Dec 2013

**Project category:** Specific Storage Technology Demonstration

**Project Website:** [www.rwe.com/rwepower](http://www.rwe.com/rwepower)

**Project Description:** Compresses-air energy storage (case) as buffer for electricity from wind and sun.

#### E-DeMa

**Organization:** RWE RWN, (DE)

**Period:** 2009-2014

**Project category:** Integrated System

**Project Website:** [www.e-dema.de](http://www.e-dema.de)

**Project Description:** The goal of E-DeMa is to reach more energy benefits and efficiency for electricity generators, municipal utilities, device manufacturers and above all customers.

#### E-telligence

**Organization:** EWE AG (DE)

**Period:** Nov 2009 - Oct 2012

**Project category:** Integrated System

**Project Website:** [www.etelligence.de](http://www.etelligence.de)

**Project Description:** The idea behind eTelligence is the intelligent system integration of electricity generation and consumption. To this aim, the project will develop and field-tests:

- a regional market place for electricity;
- feedback systems, tariffs and incentive programs;
- power generation and demand side control systems;
- modern ICT and international standards

## AS-IS Display of Information items. An important first step...

- **Organisation**: leading organisation of the project
- **Period**: period in time covered by the project
- **Project Category**: Category (JRC mapping) the project belongs
- **Project Website**: link to the company/project website
- **Project Description**: Main goal of project + installed assets

## ...but further improvements can be made

### ➤ **Efficient scheme for data collection**

- **How to set up a schedule to collect the data?**
- **How to make sure that all SG projects will be included?**

With companies? National Associations?

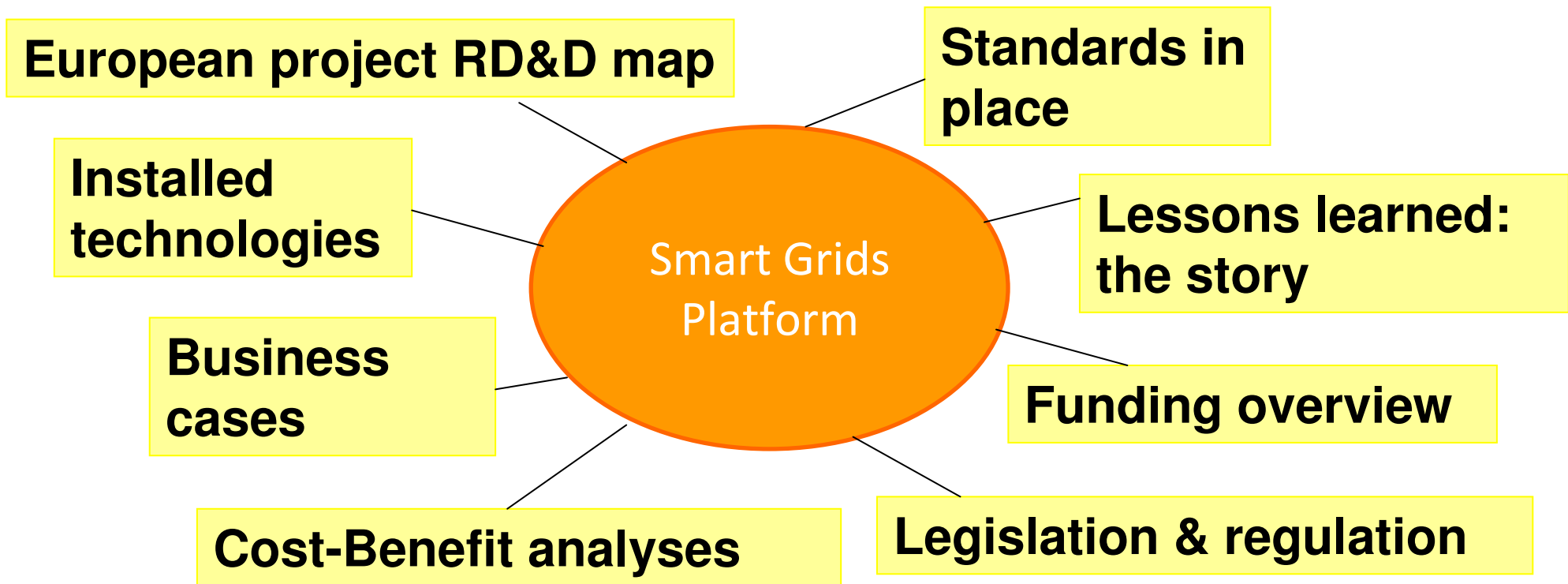
### ➤ **The right data collected**

- **Template 2.0**
- **Consistency in terminology and classification on European level**

### ➤ **From “website” to “portal”**

- **Inclusion of standards, legislation, regulation,...**

## Towards a future TO-BE Smart Grids knowledge sharing platform



**The European Electricity industry is eager to intensify the collaboration with EC Joint Research Centre**

**Thank you for your attention**

**[glorenz@eurelectric.org](mailto:glorenz@eurelectric.org)**  
**<http://www.eurelectric.org>**