

# European Electricity Grid Initiative

2nd EU-US workshop on Smart Grid  
assessment methodologies

Washington DC, 7th November 2011

Per-Olof Granström, EDSO for Smart Grids



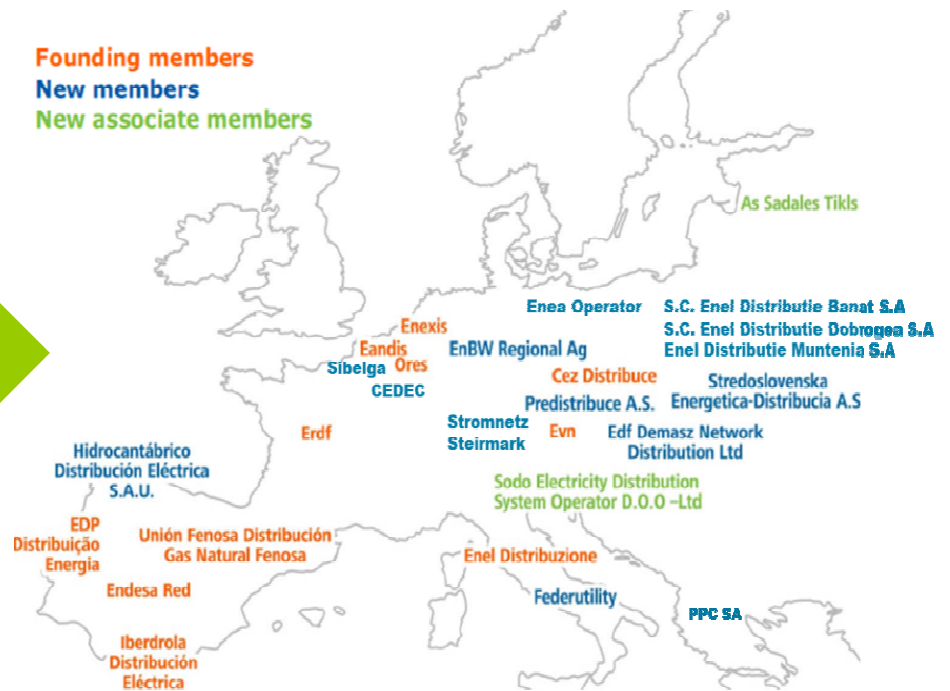
- International non-profit association
- Representing the European Distribution System Operators for electricity
- 27 members – leading players in 16 countries, representing 70 percent of the EU customers
- Structuring, leading and enhancing cooperation for the electricity network of the future
- Bringing Smart Grids from vision to reality



# Important membership growth in 18 months

March 2010  
(Foundation)

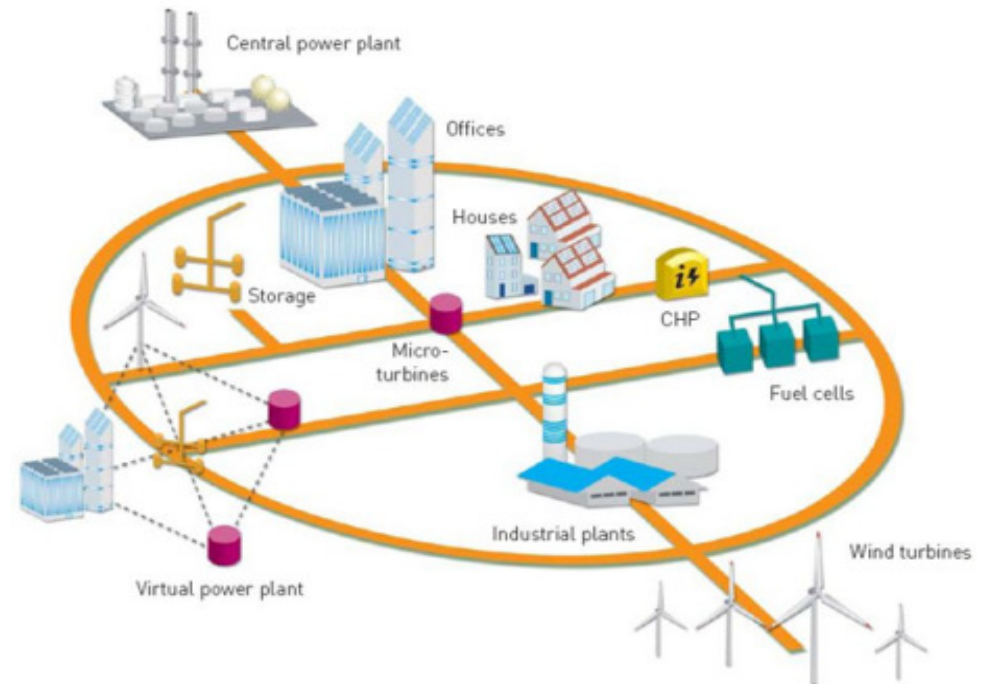
November 2011



27 members in 16 countries and 70% of EU customers represented

# Smart Grids drivers in Europe

- **2020 EU Goals** and the **third Energy package**
- Large **increase of intermittent renewable energy sources: distributed** – focus on DSO networks and distant – focus on TSO networks
- Increase of cross-border trading and flows
- Change in electricity consumption
- Deployment of Smart meters and communication
- Empowered customers having the opportunity/active demand
- e-mobility infrastructure
- Replacement of ageing infrastructure
- Local balancing of demand and supply
- Smart Cities development



**Smart Grids “market facilitators”**

# European Electricity Grid Initiative – EEGI

The European Strategic Energy Technology Plan  
**SET-Plan**  
Towards a low-carbon future

## SET-plan Initiatives

- Electricity Grid
- CCS
- Smart Cities
- Sustainable Nuclear
- Solar
- Fuel Cells and Hydrogen
- Wind
- Industrial Bioenergy



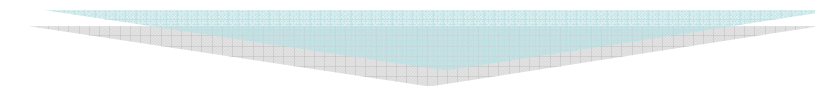
A single, stronger and smarter European electricity grid will have a central role to accommodate the massive deployment of renewable and decentralized energy sources



(DG Research)

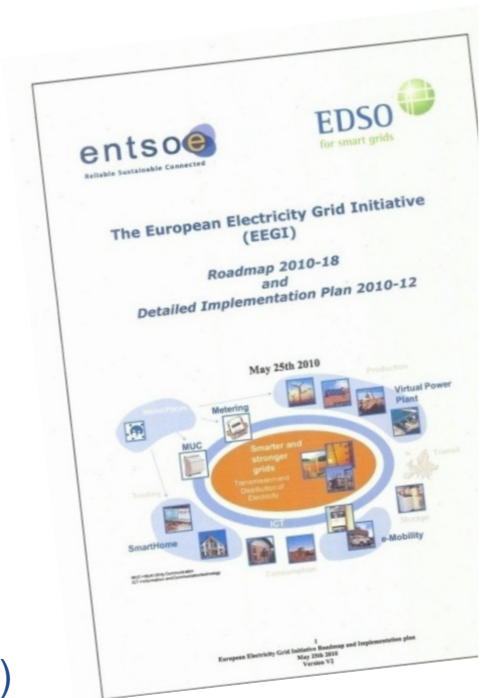


European Technology Platform

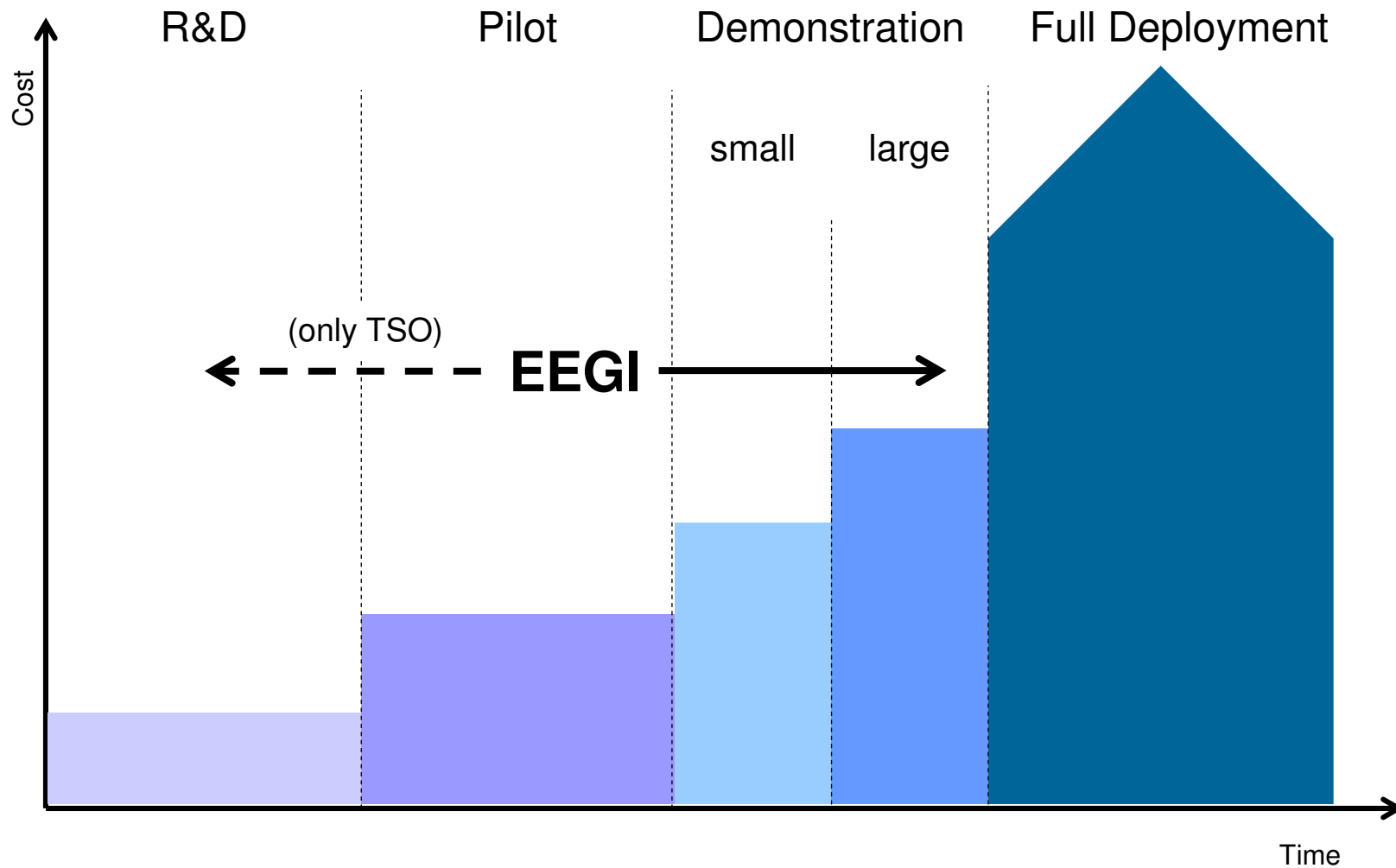


## The European Electricity Grid Initiative (EEGI)

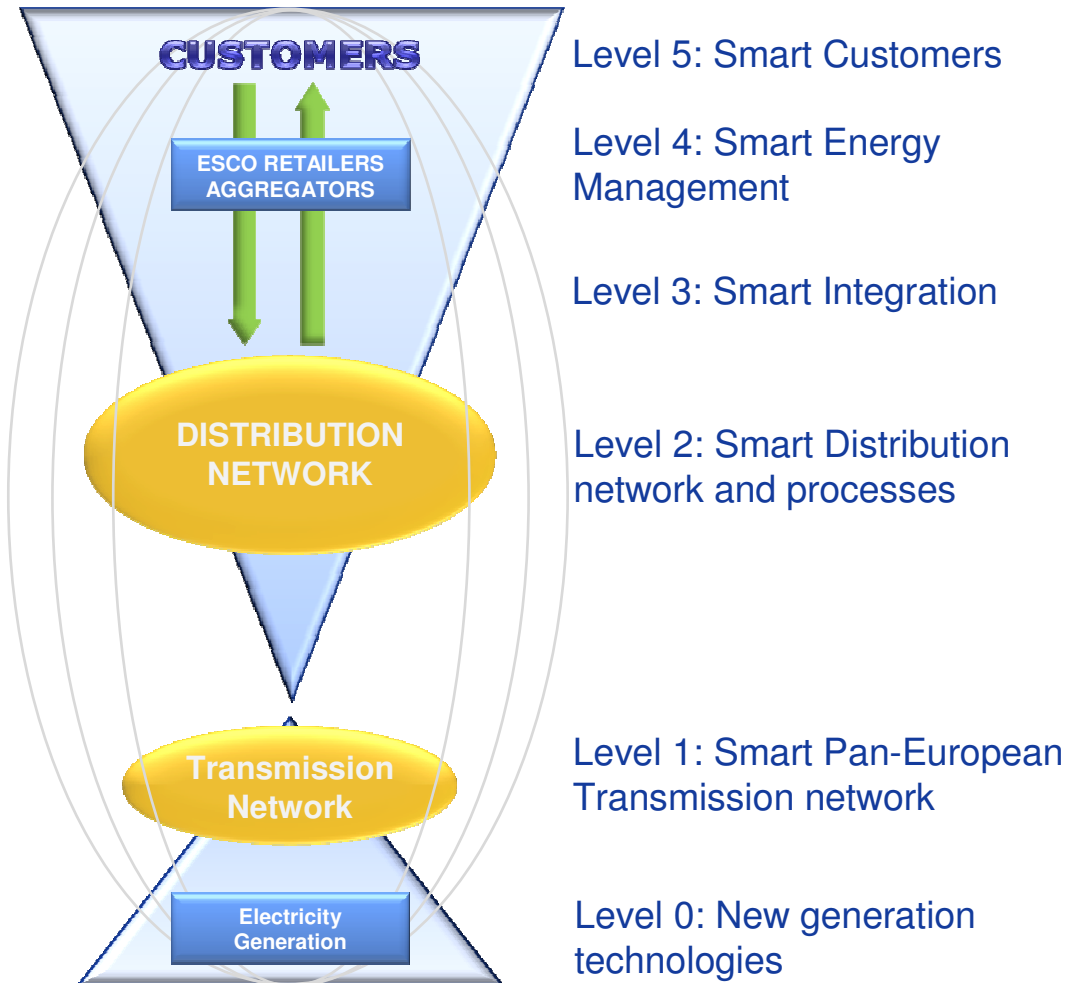
A 9-year, €2bn European (RD&D) programme initiated by electricity transmission and distribution network operators to accelerate innovation and the development of the electricity networks of the future in Europe into a Smart Grid



# EEGI focus – activities prior to Full Deployment



# EEGI – model to define needed projects



**Cluster 1:**  
Integration of smart customers



**Cluster 2:**  
Integration of smart metering



**Cluster 3: Integration of DER and new uses**



**Cluster 4: Smart Distribution Network**



**Coordination activities between Transmission and Distribution Network Operators**

**Cluster 1: Pan-European Grid architecture**

**Cluster 2: Power technologies**

**Cluster 3: Network management and control**

**Cluster 4: Market rules**

# Activities on financing and management to launch EEGI projects

## FINANCING

- FP7
- NER300
- Infrastructure package?
- National Funds
- National Regulatory Incentives
- Future EC Budget?

## MANAGEMENT



MAP

Smart Grid related projects already underway?

SELECT

What should be part of the EEGI (and not already done)?

MEASURE

KPIs chosen to measure EEGI progress?

KNOWLEDGE SHARING

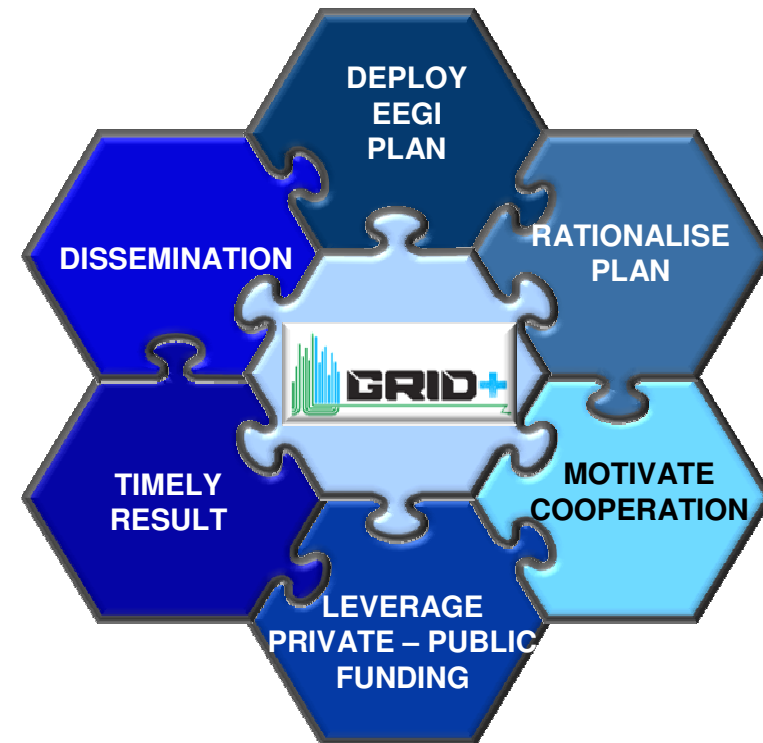
Knowledge to be shared and how to do it?

## PROJECTS

EEGI PROJECTS



- Implement and support management, planning and the networking process of the EEGI 2012-2014
- Enhance delivery by the European network operators of the new knowledge needed to deploy Smart Grid solutions in the most effective way possible in EU27
- Activities of GRID+ project include
  - Mapping RD&D activities supporting Smart Grid deployment
  - Networking between projects
  - Labelling, KPIs and Financing
  - Scaling up and replication of projects
  - Reviewing EEGI implementation plans
- GRID+ started in October 2011



# Thank you for your attention!

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