

SmartGrids

ERA-NET

**Workshop for Preparation of Croatian Technology
Platform for Cooperative Renewable Energy
Systems and Smart Grids**

Ruud de Bruijne – 2nd July 2013

Smart Grid: ERA-NET

- ERA-NET = European Research Area
 - Basic idea:
 - in general public R&D funding is done through National Programmes (80%) and the EC (20%)
 - More cooperation at EU level makes us stronger, is more efficient, gives faster results
 - Bring together the national R&D funds (joint calls)
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Smart Grid ERA-NET

- Netherlands
 - Sweden
 - Norway
 - Denmark
 - Belgium
 - France
 - Estonia
 - Latvia
 - Spain
 - Poland
 - Slovenia
 - Croatia
 - Greece
 - Austria
 - Switzerland
 - Belgium
 - Turkey
 - (Germany)
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Croatian *Technology Platform for Cooperative Renewable Energy Systems and Smart Grids*

- Technology: Smart Grids is more than technology (social acceptance; regulatory issues)
 - Renewable Energy Systems: Smart Grids and RES good combination, sometimes single RES or single Smart Grids solutions are preferred
 - Smart Grids: what is a Smart Grid?
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Smart Grid: different drivers, different benefits

- Overall: reducing cost and/or enables extra energy savings
 - Metering and billing
 - Maintenance (preventative)
 - Managing load flows ⇔ grid reinforcement
 - Enabeling RES, smart cities, smart homes
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Smart Grid: more than technology

- Managing load flows: related to human behaviour, social acceptance mandatory
 - Smart Grids changes traditional roles of consumers and producers: more interaction requires adaption of the regulations
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Smart Grid: Research agenda

- Multi disciplinary character of Smart Grid: involvement of many different stakeholders (industry, TSO's, DSO's, energy companies, service providers, regulators,)
- Smart Grid = proces (not a project)
- Smart Grid = system change (technology, regulations, business models)

=> Platforms both on national and international level to give guidance to the Smart Grid process

Smart Grid: Research agenda

- Research needs defined by different platforms (ETP Smart Grids, EEGI, IEA)
 - EU: Strategic Research Agenda
 - How to fund this?
 - Industry
 - National programmes
 - EU programmes
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Smart Grid ERA-NET

- Joint calls (3 done, 4th in 2013)
 - Mapping, prioritizing, focussing

 - In 2013: working towards an ERA-NET+
 - Defining focus by series of events (workshops)
 - Funding by MS'(2/3) and EC (1/3)
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Smart Grid ERA-NET+

- Funding of individual calls for transnational research & innovation
 - Common or mixed pot
 - 2/3 funded by MS'; 1/3 by EC
 - Minimum 5 funding programmes from 5 MS' or AS'
 - Minimum total budget 5 M€
 - Projects with maximum duration of 5 years
 - Joint evaluation procedure
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