

ORES



OPÉRATEUR DES RÉSEAUX GAZ & ÉLECTRICITÉ

Smart Grids

Chimera or opportunity ?

benoit.houssard@ores.net

Smart or Smarter Grids

- Existing load management through centralized remote control
- Static management → improvement to dynamic approach
- Enhancement of the use requires network user agreement

A mean or a goal in itself?

Due to

- Coexistence between centralized and increasing decentralized generation,
- Evolution of the electricity trade,
- Integration of the network users into the electricity system (active role),

DSO need more smartness in their network to reduce this new uncertainty and to manage the increasing complexity.

Before implementing, thinking about the benefit of the deployment.

Which smartness ?

Smarter grid has to be

- User-centric : the network user or the society have to « gain » some benefit from the new grid,
- Focused on outputs → technology neutrality

Our duty is

- To think about the added value of all the investments we suggest,
- To control the impact on gridfee evolution,
- To analyze the evolution of new services.

User-centric : which needs?

No radical difference with fundamental services that the network users require today

Main drivers :

- Competitive prices
 - Fair connection fees
 - Same quality of supply
 - No shortage
 - No price spikes
- } business as usual
} the current investments are mandatory
- } more complexity → more info
} ≠all the info

User-centric : which needs?

New network services for some network users (DG-SME)

Main drivers :

- Connection efficiency → U-regulation + contract
 - Participation in ancillary services market
 - Balancing services
 - Intraday trade
- } more info

Other benefits of more info: to improve network utilisation and to reduce energy flow

Fundings (point of view DSO)

- No incentive for innovation
- a consumption reduction leads to losses of revenues ...

it doesn't mean that we stay reactive but no waste of money ... and time

Because the size of the transition, we started a investment plan but we look for the most efficient ones :

- Quick wins for customers
- Certain choices (standardisation).

Our choices

DSO invest following the next drivers :

1. The CURRENT needs/expectations of the network users
 1. **Replacement of old/unreliable equipment**
 2. **Reinforcement**
2. The implementation of a ICT
 1. **To prevent shortage**
 2. **To reduce energy transit if network users participate**

We advice new producers showing them the cheaper location for their projects (ELIA/IECDD study for wind power).

Conclusions

- Need for a clear and long-term stable regulatory framework → EU roadmap for SG by May2011
- Cooperation amongst all the stakeholders
- Evaluation of the costs/benefits of the initiatives to control the gridfee (social obligation)
- Improvement of the awareness of consumers about their use (DSO or Suppliers?)
- fundings