



European Conference on Smart Metering Deployment in the EU

Session 3 – Panel Discussion: "Lessons learned II – ensuring interoperability of metering systems and appliances: the role of functionalities and standards "

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Need for Smart Meters

- Metering, sensing and acting
- Interaction with Prosumers and services

Implementing cost-effective models

- Benefits from DSO rolling-out smart metering
- Stakeholders should share benefits but also costs
- Opt-out options could lead to additional costs

Communicating the benefits

- All stakeholders involved
- Smart metering is key driver for engagement
- EDSO-ESMIG web platform

Standardization

 Roll-out largely benefits from standardization (procurement; WFM; communication; etc.)



Data is crucial to manage the network

- Challenges also coming from LV, and growing in number
- Maintain security of supply

Already acting as neutral market facilitators

- Part of DSO business processes
- Direct contact to all grid users' data
- Regulated; non-discriminatory

Security and privacy are both critical

- Relevant experience
- Additional investments
- Find right balance between data provision and functionalities

Implementation models and costs

- Avoid duplication of costs
- Transparent criteria

Standardization



Need for standards and interoperability

- Harmonising market models, roles and responsibilities
- Less uncertainty and lock-in effects
- Market to grow faster/more value
- Compliance with standards and the European Mandates

Supervision of the networks /DER

- Standards for future services and installations (EV; DG; etc,)
- Protect Cenelec A-band PLC

Information to Consumers/Citizens

Enabling new services

Collaboration with TSOs

Extensive work done; more to do

Collaboration with TELCOs

- DSOs perform mission critical activities
- Keep and extend good cooperation
- Provision of required and competitive services to DSOs



Smart Metering functionalities

- Solution fully compliant with set of functionalities from EC
- Direct access link to data (permission from Consumer)
- Large demonstration

Evolution of data systems

- Adapting systems for big data/ analytical capabilities
- Additional requirements coming from market-based services

Market facilitation and Consumer engagement

- Business as usual
- Real-life examples (Évora; SME; Municipalities; buildings)



Benefits from a Consumer-centric approach

- Approach proved to be very effective
- Energy efficiency is by far the single most important driver
- Detailed communication plan

Important results achieved

- Findings from independent studies showing value from direct and indirect feedback
- According to BCA conducted based on methodology proposed by JRC, most benefits go to Consumers and Society
- Portuguese Regulator conducted a BCA with a clearly positive outcome
- Both results are very much aligned
- A positive decision is expected to be taken by the competent authorities



- DSOs can provide effective conditions
- Grids should be prepared
- Smart Grids, including Smart Metering, are essential tools
- Data and flexibility services are mandatory
- The role of the DSO as market facilitator should include data management (where the DSO is installing and managing meters)
- All stakeholders must help communicate clear messages to Consumers/Citizens
- Cooperation with TSOs and ICT should keep evolving
- Standards and interoperability are crucial to overcome the challenges ahead in a timely and cost-effective way