

ERGEG Workshop Smart metering

Future of smart metering Overcome diversity – Link with Smart grids

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CEDEC Missions

- **Represent** the interests of
1500 local energy companies in the European Union,
with companies' turnover of 100 billion euros,
250.000 employees &
60 million customers
- **Exchange** know how and experiences on the process of
electricity and gas internal market and developments in market
functioning

1. Roles & responsibilities of market players

CEDEC = Predominantly medium-sized companies with activities as electricity producer, and DSO, metering system operator and supplier in electricity and gas

- As DSO : need to dispose of detailed consumption and load information → energy efficient system operation (reduce losses) / efficient system development (load shifting) / connection of multiple local generation / new services
- As metering system operator - Responsibility for DSO (except UK & Germany) : need for clarity on (minimum) meter requirements & standardisation + future services requirements → avoid stranded investments
- As supplier : need to dispose of timely information on consumption of consumers → more accurate billing / new tariff structures / new services

2. Future smart metering – Overcome diversity

- Legal environment : metering responsibility for DSO or metering (services) “market” → determines possible choice for national roll out or focus on meter customer groups (industrial / commercial / residential / (local) generator)
- Technical characteristics : current characteristics of different network levels and current meters
- Existing rules & requirements for smart metering : minimum functionalities, number of meter readings, ... - cf ERGEG study
- Multi-utility distribution companies or “single energy” company → positive business case for smart metering projects ?

3. Link with Smart Grids

- Multiple policy objectives :

3rd PACKAGE

- better functioning of internal market
- consumer protection
- long term functioning of Distribution Systems

CLIMATE PACKAGE – 20/20/20

- intensify renewable local generation : “prosumers”
- higher energy efficiency : consumer + energy industry

- Smarter grids possible without short term large roll out of smart meters
- Smart meters not necessarily “the first step” for smart grids

4. Questions to be answered

- Directive : “Communicate information sufficiently regular to consumer”
→ Smart metering as a tool, not an objective in itself – cf evaluation of costs and benefits
- Smart meters as (only) a part of the solution for Smart grids
- Smart metering system = meter + communication system
- Allow for future development of new products and services
→ Gradual upgrade of metering systems ?
- Reconcile costs & risks (for DSOs/MRCo) with benefits (suppliers / local generation)
- Find solution for large number and different size of DSOs
- Metering market compatible with national roll out ?