## **CEER Workshop**

## **Meter Data Management**

Decentralized solution (session II)

The view of local and regional energy companies

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## **CEDEC Missions**

- Represent the interests of 2000 local and regional energy companies in the European Union, with companies' turnover of 100 billion € with 75 million customers (connection points)
- Exchange know how and experience on the processes of electricity and gas markets, in every part of the value chain
- www.cedec.com

## Scope

- EU has to reconcile ambitious targets concerning the internal energy market (EU wide competition for energy supply and energy services), and concerning climate issues (renewables and energy efficiency)
- Meter data management is on the crossroads between energy markets and (smart) grids.
- Retail market model determines meter data management model.
- In all member states (except UK) the DSO is also responsible for metering operation and for meter data management, in line with
  - the current market design in Member States;
  - the future role of DSOs in smart grid environment.

## Meter data management model

### **OBJECTIVES**

- DSO must guarantee non-discriminatory access to and stability of the distribution grid
- Metering operator must guarantee non-discriminatory availability of data for energy (service) providers
- Transparency of the market model for the customer
- Efficient protection of customer data privacy

## Meter data management model

### ROLES

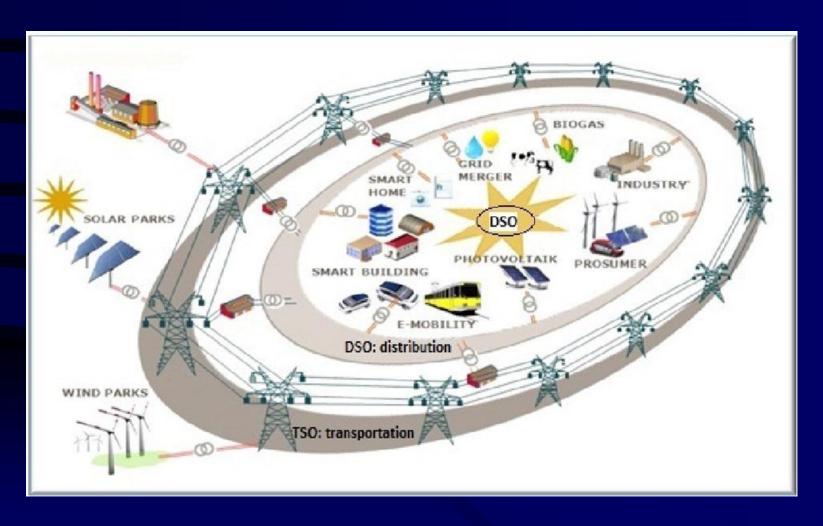
- The installation and operation of the metering equipment and the role of collection and distribution of data should be in the regulated area.
- The introduction of further market roles, that create new interfaces (and communication errors) and that increase the cost and coordination effort, should be avoided.
- Customer services (such as flexible supply rates, visualization of consumption, energy-saving gadgets, etc.) should primarily be provided by the market.

## Meter data management model

### **RESPONSABILITIES**

- The regulated **DSO** is responsible for installation, operation and maintenance of metering equipment
  - → In case of a smart meter roll-out (depending on CBA!), DSO is responsible.
- The regulated DSO/metering operator is responsible for data collection (meter reading), control, communication and delivery (meter value management).
- The market has the authority for pricing of energy supply, services "behind the meter" and smart home applications.
  - Cf. Task Force Smart Grids: reports of the Expert Groups 2 & 3 in 2011

# Smart grid market model



## Responsability for the meter data

# DSO has to manage all the consumption flows and increasing injection flows on his grid

- → DSO plays a central role in the data communication that is necessary to
  - manage the smart grid (system optimization, grid services),
  - facilitate effective and efficient market functioning
  - develop the demand response & energy services market.
- → Decentralized model is in line with the future challenges for DSOs

## Responsability for the meter data

### Data collection / data distribution

The DSO should be central in the entire data collection and distribution, not a separate new market-function (independent metering operator, hub, data communication company, ...).

### Data communication

The operational responsibility for the communication unit should be located in the DSO, as a non-discriminatory service to all consumers, suppliers and other service providers.

### Data hub?

Can be organized on national level as an additional feature, but DSO stays responsable. Additional layers constitue additional risks for data management and responsability!

 The communication format and the conditions for non-discriminatory data access should be reviewed by the regulatory authority.

## Conclusions

### In the energy market environment

- DSO decisions on grid operation depend on relevant data;
- DSO / metering operator is responsible for meter data (consumption and production) in different market processes.
- → Do not create intermediate parties for data treatment.
- Avoid data inconsistencies, avoid confusion on responsabilities and avoid lack of transparancy for the customer.

### In the smart grid environment

- DSO will need and can provide the required data (on consumption, generation, storage) within the distribution grid;
- DSO will gradually interact more (enab led by more detailed data) with TSO, consumers, (local) generators and (service) suppliers.
- → Smart grid services require regulated data, managed by the DSO.
- → Given the system critical character of meter data, the DSO should not depend on the availability of data coming from third parties.