

### METER DATA MANAGEMENT WORKSHOP

# DECENTRALIZED SOLUTION CASE STUDIES: SPAIN

Monica Gandolfi
Deputy Director – Promotion of Competition
Regulation and Competition Department

CEER WORKSHOP ON METER DATA MANAGEMENT

Brussels, 19 th of April 2012

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## OVERVIEW OF GAS AND ELECTRICITY RETAIL MARKETS IN SPAIN





Final demand

Customers \* 2

**244 TWh** 

27 millions

\* Full liberalization since 1st july 2009

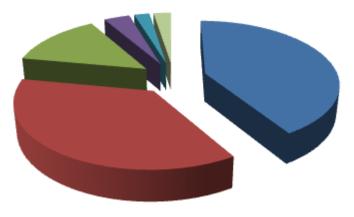
DSOs > 300 Active suppliers > 100

The 3 main companies account for more than 90% of distribution and 80% of retail supply

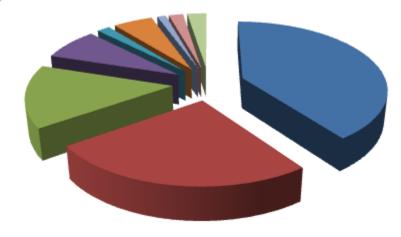
Legal and functional unbundling



Distribution market shares (GWh)



Retail supply market shares (GWh)



7% Switching rate
72% Rate of permanence with supplier affiliated with DSO •

## The gas retail market (2010 data)



Final demand

**401 TWh** 

Customers\* > 7 millions

\* Full liberalization since 1st july 2008

DSOs 6

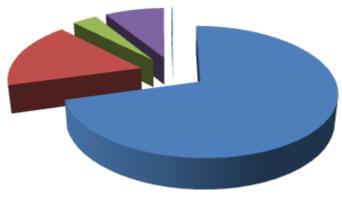
Active suppliers > 60

The main company accounts for nearly 70% of distribution and 37% of retail supply

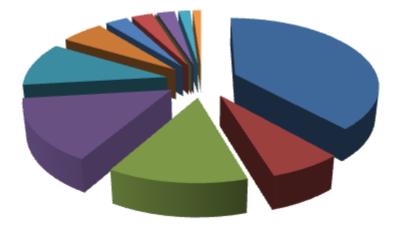
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Legal and functional unbundling





Retail supply market shares (GWh)



12% Switching rate

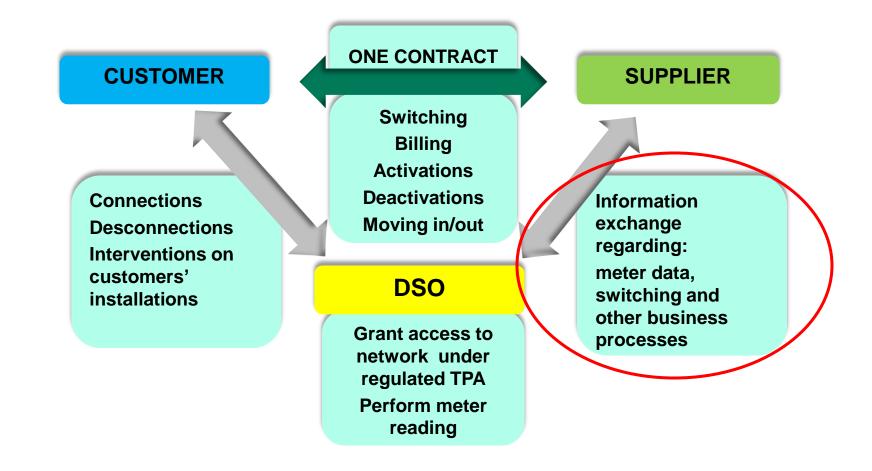
70% Rate of permanence with supplier affiliated with DSO



## THE METER VALUE MANAGEMENT AND STORAGE MODEL



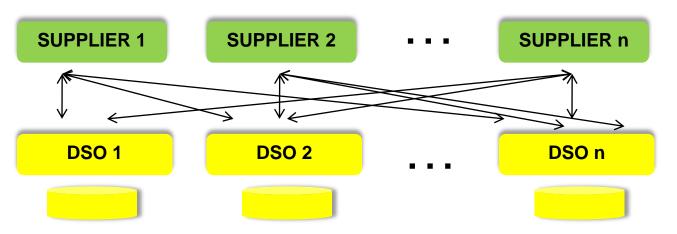
## The Spanish retail market design: stakeholders' roles



## The decentralized solution for information exchange between suppliers and DSOs



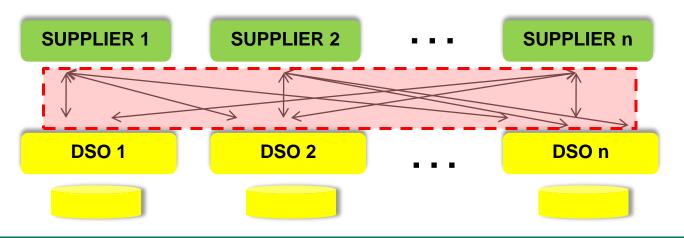
#### THE SOLUTION IN THE ELECTRICITY MARKET



BILATERAL
COMMUNICATIONS
WITH DIFFERENT
ELECTRONIC INTERFACES

EACH DSO KEEPS ITS OWN DATA STORAGE

#### THE SOLUTION IN THE GAS MARKET



BILATERAL
COMMUNICATIONS
WITH COMMON
ELECTRONIC INTERFACE

EACH DSO KEEPS ITS OWN DATA STORAGE

## Standardization of communications for some processes



### In both gas and electricity markets:

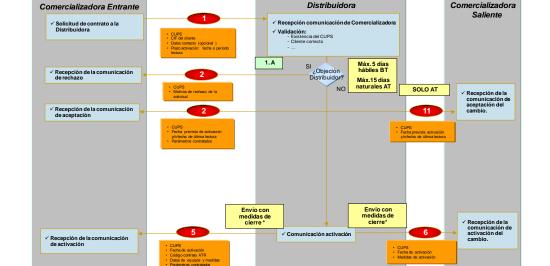
- Agents have voluntarily agreed on detailed standard information flows regarding: minimum contents of messages, actions to be taken, rejection causes, etc.
- Agreements mainly apply to: switching, activations, deactivations and desconnections and are updated on an ongoing basis
- The switching office (OCSUM) supervises switching and communications between agents
- Existing regulation only establishes general rules for these information exchanges

**Example of information flowchart** for a simple electricity switching process

(Published in OCSUM web page)



by regulation (RD 1011/2009), whose shareholders are suppliers (70%) and DSOs (30%) - it is subject to CNE's supervision



C1 - CAMBIO DE COMERCIALIZADOR SIN CAMBIOS CONTRACTUALES

OC SUM

## Relevant regulation on access to DSO meter data



### History

- In 2002 introduction of first legal provisions on access to meter point data, but access grounds were not well defined
- Several competition cases emerged between 2007 and 2009 in electricity Spanish Competition Authority
- Partly as a result of these cases regulation became stricter perceived as a tool to foster competition and prevent discriminatory use of information by DSO
- Royal Decree 1011/2009 homogenous regulation for gas and electricity meter point data
  - DSOs have the obligation to keep a data base of all meter points (SIPS) to allow for:
    - → online consultation, without limits, of the data base
    - → reception and validation of switching requests and other information exchanges

Failure to comply with this obligation is regarded as serious breach of law

All suppliers and OCSUM have the right to unconditional and free access to SIPS

## The content of the meter point data base (SIPS)



- Existing regulation establishes in detail the minimum data set to be included in the SIPS
- Technical data
  - Unique meter point identification code
  - Exact location of the meter point
  - Voltage, network tariff, maximum authorized power, etc.
  - Monthly consumption over the two previous calendar years
  - Contracted power
  - Date of last supplier switching
  - Date of last reading
  - Non-payment indicator
  - Etc.

#### Customer data

- Specification of whether owner is natural or legal person
- Name and address of meter point owner
- Use of the meter point if natural person

## **Customer rights as regards SIPS**



#### Access to SIPS

- Customers have the <u>legal right to free access their consumption data in the SIPS</u>
- They can forbid DSOs to make these data accessible to suppliers:
  - → Explicit written request to DSO
  - → Request to be registered in the DSO data base and OCSUM must keep a copy
- Customers cannot prevent his/her identification meter point code from being revealed in case of non-payment
- Decision of Spanish Highest Court of Appeal (December 2010)
  - SIPS regulation on private data exchange declared <u>compatible</u> with private data protection legislation
  - SIPS regulation considered as proportionate and necessary to the aim of securing the right of consumers to switch supplier



# CONSIDERATIONS ON THE EXISTING (AND FUTURE?) SOLUTIONS

## Advantages and disadvantages of the existing decentralized solution



## IS THE BILATERAL DECENTRALIZED SOLUTION + MANDATORY REGULATION ACCEPTABLE?

#### **PROPORTIONALITY**

No alteration of DSOs data bases
Less intrusive than introducing a new central hub system

#### **GOVERNANCE**

Clear ownership, management and financial structure of existing meter point data base

#### **COST EFFICIENCY**

Existing system
perceived as most cost
efficient by DSOs
However, no CBA carried
out to see whether central
hub could be more cost
efficient

#### **TRANSPARENCY**

Potential lack of transparency and room for discriminatory behaviour Need for increasingly detailed and complex regulation

## Regulatory proposals to improve access to SIPS and switching procedures



- Inquiries and complaints received by CNE indicate that there is room for improvements
  - Not well defined roles and responsibilities for all agents
  - Room for some discretion by DSOs as meter data providers and market facilitators
  - Lack of specific time frames for some business processes
  - Etc.
- The CNE has recently launched proposals to improve access to SIPs and switching procedures
  - Communications procedures to be established according to public and homogeneous formats incorporated in detailed regulations (to be proposed by CNE, taking into account OCSUM proposal)
  - Establish detailed obligations and time frames for both suppliers and DSOs in relation with switching and other business processes

## Possible drivers for a potential move towards a centralized solution?



- Competition developments have been a major driver towards existing regulation of free and unconditional access to SIPS
- So far, most efforts dedicated to improve regulation/standardization rather than change current decentralized solution
- Possible future drivers towards a centralized solution:
  - New entrants' needs?
  - Further complaints and competition problems?
  - Changes related with the introduction of smart grids and demand response?
  - Others?



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