

## Meeting on TSO-DSO-PX Cooperation

### Future Power Market Platform

1<sup>st</sup> Workshop 2018

Milan, January 10<sup>th</sup> 2018

**This is an invitation only, event held under Chatham House Rule**

**Location:** L'Autorità per l'energia elettrica il gas, Piazza Cavour 5, 20121 Milan, Italy

**Dinner:** Restaurant Volemose Bene, Via della Moscova, 2520121 Milan, Italy  
**January 9th 2018, 8.00 pm**

**Contact Details:** Registration/Organization: Olga Zhylenko ([OZhylenko@diw.de](mailto:OZhylenko@diw.de))  
Content: Karsten Neuhoff ([KNeuhoff@diw.de](mailto:KNeuhoff@diw.de))  
Jörn Richstein ([jrichstein@diw.de](mailto:jrichstein@diw.de))

### Objective

Increasing shares of active consumers, distributed generators, new flexibility providers on the distribution network lead a need of coordination between TSO, DSOs and power exchanges. In this workshop we would like to extend the discussion we had in Mannheim, and ask with more detail the question: What needs to be considered in the market design to coordinate producers, consumers, and flexibility providers, and which aspects of the operational rules governing the cooperation between TSOs and DSOs are relevant?

In the workshop, we would first like to learn from practical views by market participants and regulators. Based on this, we will discuss what key issues need to be considered for future modes of coordination between TSO, DSOs and power exchanges.

Finally, advantages and disadvantages of prototypical concepts for coordination will be discussed, as well as possible pathways to the different forms of coordination.

## Agenda

**09:00 Registration / Coffee**

**09:15 Introduction:** Karsten Neuhoff (DIW Berlin) and Cristian Lanfranconi (Autorita Energia)

**09:30 Practical case studies and issues regarding DSO-TSO-PX coordination**

**Chair:** Jörn Richstein, DIW Berlin

**Opening comments:** Gianluigi Migliavacca (RSE), Alberto Latorre (Centrali Next)

**Topics and questions:**

- What are practical experiences of actors in dealing with TSO-DSO-PX interaction?
- What are protocols that are being following in emergencies?
- What are the technical requirements and codes that actors observe with regard to TSO-DSO interaction?
- What are legal and practical hurdles?
- Who has direct control over units? Who is responsible if a unit is not available due to being dispatched by another grid operator?

**11:00 Coffee Break**

**11:15 Key issues for future TSO-DSO-PX coordination**

**Chair:** Christian Nabe (Ecofys)

**Opening comments:** Mathilde Lallemande (ENTSO-E/RTE), Miguel Pardo (Enel), Rickard Nilsson (Nord Pool Group)

**Topics and questions:**

- Liquidity and market power on local markets
- What are contractual arrangements suitable to acquiring local services from market participants?
- Locational information of flexibility: which market needs which information, and how to enable participation of units in all services?
- How is the reliability of acquiring units from distribution grids, when coordination is incomplete?

**12:45 Lunch break**

**14:00 Looking forward – Approaches to coordination**

**Chair:** Gianluigi Migliavacca (RSE)

**Opening comments:** Jose Pablo Chaves Avila (IIT & MIT)

**Topics:**

- Discussion of several key concepts for TSO-DSO-PX coordination
  - Full integration – TSO reaching out into DSO networks
  - Options for limited integration
  - Vertical market coupling

**16:00 End of workshop**

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#### Confirmed participants (08.01.2018)

First name	Last name	Affiliation
Marco	Baldini	Edyna
Alberto	Bridi	Edyna
José Pablo	Chaves Ávila	Institute for Research in Technology
Emanuele	Colombo	RTE France
Daniel	Davi Arderius	Enel
Gerard	Doorman	Statnett
Andreas	Ehrenmann	Center of Expertise in Economic Modelling and Studies, ENGIE
Andreas	Flamm	Entelios
Alexandra	Halkenhäuser	MVV Energie AG
Nicolas	Kuen	DG Energy EC
Mathilde	Lallemand	ENTSOE / RTE
Cristian	Lanfranconi	Autorita Energia
Alberto	Latorre	Centrali-Next
Gianluigi	Migliavacca	RSE S.p.A.
Christian	Nabe	Ecofys
Karsten	Neuhoff	DIW Berlin
Rickard	Nilsson	Nord Pool Group
Miguel	Pardo	Enel
Carlotta	Piantieri	DIW Berlin
Jörn	Richstein	DIW Berlin
Raphael	Rinaldi	Enel
Nicolò	Rossetto	EUI
Marco	Rossi	RSE S.p.A.
Melanie	Schutz	TenneT
Philippe	Vassilopoulos	EPEX Spot