

## Workshop

# Digital Energy Marketplaces: The role of smart contracts in the definition and coordination of investments, architectures and governance

 #DigitalEnergyMarket @FSR\_Energy

**17 September 2019**

Refettorio - Badia Fiesolana, Via dei Roccettini 9 - San Domenico di Fiesole (Fiesole, Florence)

Scientific Organisers:

**Miguel Vazquez** | Florence School of Regulation / RSCAS / EUI

**Nicolò Rossetto** | Florence School of Regulation / RSCAS / EUI

## Introduction

Technological innovation has the potential to increase the efficiency of an industry, significantly transform it, or even entirely disrupt it. To transform or to disrupt, innovation needs to change the industry players and the way they interact. For example, industry change may be driven by consumers pushing the path from smart technologies, which any utility may implement itself to manage its assets, to smart transactions, where smart technologies create new coordination tools within the industry.

By gathering practitioners from the industry, academics and representatives of the institutions, this workshop develops further the debate started at the [Open Marketplaces & Enabling Technologies workshop](#) that took place last March in Brussels. The various sessions of the workshop will explore how distributed ledger technologies like the blockchain can effectively transform the energy industry and enable new forms of interaction among the actors of the supply chain. The possible emergence and the organisation of new platforms and contractual arrangements will be investigated. Finally, the workshop will address the governance and regulatory issues that the adoption of these new technologies raises.

## **Programme**

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09.00 - 09.15 Welcome and introductory remarks

**Miguel Vazquez** | Florence School of Regulation

09.15 - 09.30 Introductory remarks

**Mark van Stiphout** | European Commission, DG Energy

09.30 - 09.45 Presentation of the draft stakeholder paper on digital energy marketplaces

**Natalie Samovich** | AIOTI

### **Session 1: Smart contracts and short-term energy markets**

09.45 - 10.45 What type of contracts will shape the energy market of the future? (e.g. energy or flexibility contracts; centralised or decentralised contracts). How will contracts produce short-term signals (signals for all type of uses of the power system, e.g. flexible consumer devices and decentralised production)?

Moderator: **Cristobal Irazoqui** | European Commission, DG Energy

**Giuseppe Amoroso** | Enel

**Jerome Michel** | EDF

10.45 - 11.00 *Coffee Break*

### **Session 2: Smart contracts and investment**

11.00 - 12.00 How will investment in new assets for the energy transition (i.e. renewable generation and grid capacity) be coordinated? What are the challenges for IoT, big data, blockchain and decentralised energy markets to allow significantly larger participation of end consumers in the investment decision-making process?

Moderator: **Miguel Vazquez** | Florence School of Regulation

**Kenneth Wallace-Mueller** | DLA Piper

**Francisco Hernanz** | Iberdrola

12.00 - 13.00 *Lunch*

13.00 - 13.15 **Keynote speech**

New business models in the electricity sector

**Jean-Michel Glachant** | Florence School of Regulation

### **Session 3: Platforms' architecture**

13.15 - 14.15 On what kind of markets and platforms will these contracts be traded? Will they be decentralised or centralised? Will these markets be organised by system operators, exchanges or other third commercial parties? How can we embrace emerging trends in consumer platforms (e.g. in the area of home, electrical vehicles, heating and cooling, electric appliances)?

Moderator: **Rolf Riemenschneider** | European Commission, DG Connect

**Howard Wright** | EPEX SPOT

**Stefan Niessen** | Siemens

**Fabio Genoese** | Terna

### **Session 4: Platforms' governance**

14.15 - 15.15 Following the above questions, can we agree on a common definition of platform? How can we agree on common governance principles for such platforms? If and how these markets should be regulated?

Moderator: **Nicolò Rossetto** | Florence School of Regulation

**Michael Jesberger** | ENTSO-E

**Ewald Hesse** | Energy Web Foundation

15.15 - 15.45 *Coffee Break*

### **Session 5: Roundtable - Regulatory adaptation**

15.45 - 16.45 Do market design principles need to change to accommodate the above considerations? The role of sandboxes.

Moderator: **Mark van Stiphout** | European Commission, DG Energy

**Alexandra Schneiders** |UCL

16.45 - 17.30 Wrap-up

**Mark van Stiphout** | European Commission, DG Energy

**Miguel Vazquez** | Florence School of Regulation

