Title:

How can P2P energy trading be an enabler for Local Energy Communities

Subtitle:

P2P energy trading - good practices exchange

Duration:

1:30

Organisers:

Germanwatch & Carbon Coop

Aim of the workshop:

1) Identifying the opportunities and limitations of the P2P energy trading through a best practice exchange. Based on that exchange, discussing the further, sustainable grid development that allows for P2P participation
2) Discussing the EU regulatory framework needed for the further development of the P2P energy trading in Europe
3) Identifying the most suitable channels for communicating the regulatory needs to the national and European regulators

Background information:

Peer-to-Peer (P2P) energy trading represents direct energy trading between peers, where energy from small-scale Distributed Energy Resources (DERs) is traded among local energy prosumers and consumers.

Sharing electrons directly with peers sounds revolutionary, but why do it in the first place? Would it help the grid and the entire energy system?

Draft Agenda:

❖ 00:00

Welcome

Speaker: Organisers

❖ 00:05 – 00:20

The regulatory tendencies in the use of P2P energy trading in Europe

Speaker: Prof. n. dr. hab. Dariusz Szostek

❖ 00:20 – 01.00

Presentation of P2P energy exchange good practices.
Identifying the opportunities and limitations of the P2P energy trading through a best practice exchange. Based on that experience discussing the further, sustainable grid development that allows for P2P participation

1) 00:20 – 00:45

Pylon Network

A team of Spanish engineers developing a Blockchain based platform to enable renewable energy co-ops to exchange the power they generate.

Speaker: Markos Romanos, COO at Pylon Network // Energy & Sustainability Engineer

Q&A

2) 00:45 – 01:05
Presentation of the good practices from UK

Speaker: Carbon Coop

a. Repowering London & Verv
https://communityenergyengland.org/news/repowering-london-and-verv-have-performed-uk-s-first-blockchain-powered-p2p-energy-trading-pilot
Repowering London in partnership with Verv have executed the 'first' peer to peer trade in the UK using blockchain technology. This took place within the so-called 'regulatory sandbox' and is not something that would be possible under current regulatory arrangements in the UK.

b. Energy Local
http://www.energylocal.co.uk/
A community energy scheme in the UK which is an example of a 'local balancing tariff' where consumers are offered a tariff based on the production of a local hydro facility.

c. Cornwall Local Energy Market

https://www.centrica.com/innovation/cornwall-local-energy-market

This is a UK innovation project looking to develop a pseudo-peer to peer marketplace for both energy and flexibility in Cornwall in the south west of England.

Q & A

❖ 01:05 – 01:15

Work in groups. Tackling the following questions:

- Based on the examples presented, identifying the opportunities and limitations of the P2P energy trading for the current electrify system
- Discussing the regulatory framework needed for the further, sustainable development of the P2P energy trading in Europe
- Identifying the most suitable channels for communicating the regulatory needs to the national and European regulators

❖ 01:15: 01:25
Short presentations – results from the group discussions