

Program for EUDP-Mission Innovation Workshop #1

Flexibility is the cornerstone of the future energy system

Time: June 20, 2019 09:30am to 4:30 pm

Venue: Mogens Dahl Concert Hall,

Snorresgade 22, 2300 Copenhagen S, Denmark

09:30am	Registration and coffee
10:00am	Welcome and introduction by moderator of the day Helle Juhler-Verdoner, m.d. of the Danish Intelligent Energy Alliance
<i>Session 1: Demand Response development in an EU perspective – making the link to the Mission Innovation IC1 working group demand response</i>	
10:10am	Flexibility is the corner stone of the future energy system: <i>The Clean Energy Package has a strong emphasis on the active participation of consumers and the role of demand response in balancing the RE production. Does the CEP deliver on this? What are the next steps in an EU perspective?</i> by Philip Baker, senior advisor, The Regulatory Assistance Project
10:40am	Lessons learned from the MI parties in the demand response working group <i>As part of the Mission Innovation demand response working group activities, country reports and a particular survey is being conducted by the Danish Technical University (DTU). Results from the survey based on input from MI-participants will be presented.</i> by Henrik Bindner, DTU Elektro (co-chair of the MI – International Challenge 1 – Task 4 demand response)
11:00am	Are we well on track to succeed in developing demand response markets in the EU member states? (Participants TBC) <i>Two of the national MI-participants from research communities will give a 5 minute pitches on their view (co-chair from Finland, Kari Maeki, VTT and Luciano Martini, RSE, member of the IC1 group from Italy). Followed by a moderated debate by Helle Juhler-Verdoner on the following key issues:</i> <ul style="list-style-type: none">- what drives the national demand for flexibility in the power grid?- what are the common trends and lessons to be shared across EU member states?

- will implementing CEP ensure further development or what is needed?

11:30am

Coffee break

11:50am

Developing the EU market for balancing services

ENTSO-E are to develop a common EU-market for reserve balancing services (FRR). Projects called MARI and PICASSO. What is the state of play and what is the Danish perspectives of this market development

by Martin Høeg Møller, Energinet

12:20am

Lunch break

Session 2: Activating flexibility; Intermittent renewable energy sources as well as nuclear power and grid congestion will drive the flexibility market. Consumer engagement is needed. Can we engage the energy consumer – other utilities, industrial consumers and residential? What drives the energy consumer:

1:00 am

Flexibility from residential Power Consumption – field trials based on USEF

The experience from various residential use-cases will be presented based on the [Universal Smart Energy Framework](#) (USEF)

by Marten van der Laan, USEF

1:30 am

Potential and possibilities of activating energy consumption in the EU markets

Balancing energy supply with demand response can happen through many sources of demand response including other utilities like waste water treatment, industry and households. The markets are varying across the EU, does CEP make it easier?

by xxx KIWI Power (tbc)

2:00 pm

Providing flexibility from flexible units into the French market

Voltalis has many years of experience within demand response from heat pumps and has worked to influence the CEP. Voltalis will share their experience and view on the CEP and whether it will deliver in terms of flexibility market development

by Pierre Bivas, Voltalis

2:30 pm

Coffee break

Session 3: Sources of demand will be decentralized because RE-production as well as electricity demand is happening in the distribution grid. This has market implications – local market platform facilitator

3:00 pm

Flexibility platforms can facilitate a cost effective solution for demand and supply of flexibility

Green transition and electrification drive the need for local and regional markets. NODES provide a neutral flexibility platform. A use-case will apply NODES platform (in the German DSO, MittNetz, grid and aggregator Entelios) demonstrates the cost-effectiveness of flexibility trading vs. curtailing solar generation when facing congestion challenges in the grid.

by Hallstein Hagen, NODES, Norway

3:30 pm

Experience in facilitating flexibility trading

There are various flexibility platform developments. EPEX Spot is working on various flexibility case and will among other elements present the Enera case (part of the [German SINTEG projects](#)). EPEX Spot presentation will also highlight the interaction between DSO and TSO markets

by Elies Lahmar, EPEX Spot, France

Conclusions to be drawn

4:00pm

Flexibility market development is a key issue in the green transition in Denmark

Implementing CEP in Denmark and national developments on what is called Market Model 3.0. will frame the development of the flexibility market in Denmark. What elements from workshop#1 should be brought into the national development – making the link to presentation and discussions of workshop#1

By Helle Juhler-Verdoner, The Danish Intelligent Energy Alliance

4:15pm

Concluding remarks

By Helle Juhler-Verdoner, Danish Intelligent Energy Alliance