

Program for EUDP-Mission Innovation Workshop #1

Flexibility is the cornerstone of the future energy system

Time: June 20, 2019 09:30am to 4:00 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 with particular focus on the Clean Energy Package (CEP) and its implications for demand response – making the link to the Mission Innovation’s work on 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 electricity system. 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
10:40 am	Providing flexibility from large numbers of flexible units into the electricity markets <i>Voltalis has many years of experience within demand response from commercial and residential loads (such as heating and cooling), initially in France and now in several other countries. Voltalis was also involved in the discussions on the CEP, together with a group of innovative companies. Voltalis will share their experience and view on how the CEP will contribute to develop flexibility in the market.</i> by Pierre Bivas, Voltalis
11:10am	Coffee break

11:30 am

Lessons learned from the MI parties on demand response

Mission Innovation - engaging G20 countries - has put smart grid and demand response on the list of international challenges to be addressed in their work. As a key element in their Task 2 on demand response a survey has been developed by VTT. Results from the survey which is based on input from MI-participants will be presented (VTT in Finland and DTU Electro in Denmark are co-chairing Task 2).
by Matti Aro, VTT

11:50am

Debate: Are we well on track to succeed in developing demand response markets in the EU?

In this debate involving the audience we will explore further on recent developments with particular emphasis on:

- *what are the common trends and lessons to be shared across EU member states? And*
- *will implementing CEP ensure further development of demand response looking at the current state of market development?*

Participants are:

- *Matti Aro, VTT, Finland,*
- *Henrik Bindner, DTU Electro, Denmark,*
- *Philip Baker, RAP and*
- *Pierre Bivas, Voltalis*

Helle Juhler-Verdoner will moderate this debate.

12:20am

Lunch break

Session 2: Intermittent renewable energy sources and grid congestion will drive the demand for flexibility enabled by digitalization. Consumer engagement is needed. Can we engage the consumer – industrial consumers and residential? What drives the energy consumer?:

1:15 pm

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 \(USEF\)](#). How has the consumer been engaged? How has partnerships been developed? USEF has in the early phase of framework development described various models for aggregation and interaction with other market participants. USEF published in 2018 a number of white papers on value stacking and marketplatforms giving further insight into market development.

by Marten van der Laan, USEF

Session 3: The TSO is a main market player in the EU in terms of demanding flexibility, balancing services. Going forward demand from DSOs for flexibility services is expected to increase in many EU member states. Market demand for these services need to be developed also through the balancing service market. And TSO and DSO markets need to be developed and interact in transparent ways.

1:45pm

Developing the EU market for balancing services

Market demand for demand side flexibility services needs to be further developed to ensure access from all sources of flexibility into the balancing service markets. With projects named MARI and PICASSO, ENTSO-E have decided to develop a common EU-market for balancing services (FRR). What is the state of play and what is the Nordic perspectives on this market development
by Martin Høeg Møller, Energinet

2:15 pm

Coffee break

2:45 pm

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

Green transition and electrification drive the need for local and regional markets. NODES provide a flexibility platform ensuring transparency and cost-effectiveness. A use-case applying NODES platform in the German DSO, Mitnetz Strom, grid with Entelios as aggregator will be presented
by Hallstein Hagen, NODES, Norway

3:15 pm

Experience in facilitating flexibility trading

EPEX Spot also provides a neutral flexibility market platform and is applied on various flexibility cases. The Enera case (part of the [German SINTEG projects](#)) will be presented. EPEX Spot, handles the interaction between DSO and TSO markets differently from the NODES platform and will explain why
by Elies Lahmar, EPEX Spot, France

Closing session: Conclusions to be drawn

3:45-4:00pm

Concluding remarks and key take aways from the workshop

Implementing CEP in Denmark and additional national developments (The Danish Market Model 3.0) will frame the development of the flexibility market in Denmark. What are the key take aways from today's workshop

By Helle Juhler-Verdoner, The Danish Intelligent Energy Alliance