

# YOU ARE INVITED!

## Time:

28th October 2021 at 9:30am

## Location:

Technical University of Denmark,  
Elektrovej 329A,  
2800 Kgs. Lyngby, Denmark

## Sign up here:

<https://tilmeld.events/MultiDC>



JOIN US FOR THE

# multiDC

**DEMONSTRATION EVENT**

### Energy Islands

Towards Zero-Inertia Offshore Grids

### Smart Management of HVDC Links in Northern Europe

Supporting Frequency - Sharing Reserves  
- Reducing Costs

### Live Demonstration in PowerLabDK

Digital Twin - Hardware in the Loop  
- Stability of Low-Inertia Energy Islands

### Read more about the project:

[www.multi-dc.eu](http://www.multi-dc.eu)

 Innovation Fund Denmark



9.30-10.00	Welcome and Coffee
10.00-10.10	Welcome to DTU and CEE, Jacob Østergaard
10.10-10.30	<b>Overview of the Energy Island (Danish Perspective)</b>
10.30-10.50	<b>European Perspective (tbd)</b>
10.50-11.10	multiDC: Controlling the Power Flows
11.10-11.35	multiDC in detail: <b>Offshore Energy Islands</b> <ul style="list-style-type: none"> <li>a. Impact on National Markets</li> <li>b. Impact on Grid Security</li> <li>c. Zero vs low-inertia</li> </ul>
11.35-12.00	multiDC in detail: <b>Smart management of HVDC in the North European Grid</b> <ul style="list-style-type: none"> <li>1. Cost savings from using HVDC for primary frequency support</li> <li>2. Sharing reserves/supplementary power control</li> <li>3. N-1 criterion and adaptive control</li> </ul>
12.00-13.30	Lunch and poster session
13.30-15.00	<b>multiDC Demonstration at PowerlabDK</b> <ul style="list-style-type: none"> <li>1. NSEH Low-inertia with HIL – RTDS Based simulations</li> <li>2. Zero-inertia NSEH and the issue of current limitation</li> <li>3. Supporting Frequency Across Areas with HVDC</li> </ul>
15.00-16.00	<b>Panel Session</b> Energy Islands and HVDC Interconnections: What are the next steps towards their integration to the European Grid? <b>Panelists:</b> Deepak Ramasubramanian, EPRI; Sonja Berlijn, KTH (former Statnett); Fitim Kryezi, Energinet; (additional panelists tbd). <b>Moderator:</b> Jacob Østergaard
16.00-17.00	Cocktail Reception

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## 2<sup>nd</sup> Demo Event

28<sup>th</sup> October 2021  
9.30-16.00 CET