

Invitation to a Danish-German PE:Region seminar:

## DEMONSTRATOR DEVELOPMENT FOR INTELLIGENT GRID INTEGRATION, HIGH SPEED DRIVES, AND BATTERY CHARGING

Power electronics is a cross-cutting technology applied for efficient control and conversion of electric power in a large number of applications. A growing demand for innovative power electronics products and solutions is expected due to electrification of the energy systems and higher demands for energy efficiency.

On this background an important objective of the German-Danish PE:Region project is to support power electronics innovation. The project develops three technology demonstrators for selected value chains in cooperation with industrial network partners:

<b>#1: Intelligent grid integration of wind and sun</b>	<b>#2: Energy efficient, reliable and compact high speed drive</b>	<b>#3: High-power onboard bidirectional battery charger</b>
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The seminar provides a status of the PE:Region demonstrator work and a possibility to discuss their further development. Furthermore, the SDU-MCI laboratories are presented.

### PROGRAMME

1. Welcome, lunch and brief overview of the PE:Region project work  
[Kasper Paasch, SDU-MCI / Gustav Nebel, Sønderborg Vækstråd]
2. Intelligent grid integration, PE:Region demonstrator #1 – outline of idea, status of work, prospects and challenges, general discussions of future activities  
[Markus Andresen, CAU]
3. High speed drive, PE:Region demonstrator #2 – outline of idea, status of work, prospects and challenges, general discussions of future activities  
[Stefan Walz, CAU]
4. Battery charger, PE:Region demonstrator # 3 – outline of idea, status of work, prospects and challenges, general discussions of future activities  
[Morten Nymand, SDU-MCI]
5. Conclusions, lunch and visit to SDU-MCI laboratories

#### TIME AND PLACE

27 June 2018  
11:30 – 15.00  
SDU, MCI  
Alsion 2  
Rooms M304-M307  
DK-6400 Sønderborg

#### REGISTRATION

Participation is free of charge:

- German participants: info and registration to Joachim Bergmann, +49 431 66 66 6-8 32, jbergmann@wtsh.de
- Danish participants: info and registration to Gustav Nebel, +45 3055 3165, gune@sonderborg.dk
- The workshop is organized by the PE:Region partners:

