

Invitation to a Danish-German PE:Region Platform seminar:

## BATTERY TECHNOLOGIES FOR ELECTRO MOBILITY AND SMART GRID PURPOSES – REGIONAL NETWORKING, RESEARCH AND BUSINESS DEVELOPMENT

Batteries are important in developing the energy systems of the future. They offer storage possibilities for renewable energy sources within electro mobility and Smart Grids. Energy density as well as charging and durability characteristics of the batteries are important. However, large-scale application of batteries depends on improvements in technical as well as cost/production related issues:

Battery cells	Materials and methods for production of stable battery cells with high energy density
Battery packages	Efficient, reliable and cost competitive battery packages which are fit for customer purposes
Battery applications	Integration of battery packages within electro mobility and Smart Grid applications, and efficient charging

This seminar provides an overview of development and business activities related to battery technologies and provides the kick-off for a new regional battery forum initiative.

Join us online for exploring and developing new options within power electronics.

### PROGRAMME

- 12:30 Start-up and welcome  
[Thomas Ebel, SDU-CIE]
- 12:35 Introduction to seminar and outlook for regional battery forum  
[Jan Cornils, WTSH / Gustav Nebel, Sønderborg Vækstråd]
- 12:40 Basics of battery technology and materials/methods for battery cell production – current research status and prospects for the future  
[Dr. Andreas Würsig, ISIT, Fraunhofer Institute]
- 13:20 Battery materials and customized battery cells/packages  
[Benno Leuthner, Custom Cells Itzehoe GmbH]
- 13:45 Production of lithium ion electrodes, battery cells and packages  
[Dr. Stefan Permien, UniverCell GmbH]
- 14:05 Break
- 14:15 Battery packages for heavy duty vehicles  
[Rasmus Banke, Banke ApS]
- 14:35 Battery solutions for mobile transport refrigeration units  
[Kresten Kjær Sørensen, Bitzer Electronics A/S]
- 14:55 Experiences with grid connected stationary MW battery  
[Martin Heins, EnspireME – Eneco]
- 15:15 Innovative charging of batteries  
[Robert Brehm, SDU-CIE]
- 15:35 Diagnostics of batteries  
[Prof. Christoph Weber, FH Kiel]
- 15:55 Closing of seminar

#### TIME AND PLACE

8 September 2021  
12:30 – 16:00 (online)  
<https://syddanskuni.zoom.us/j/68964562959?pwd=OXhDZ3Q5d0RmNUtoZ1NRWDFwRnEwQT09>

#### REGISTRATION

Participation is free of charge.  
Please register online via  
WT.SH: [Registration-Link](#)

Further information/contact:

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The seminar is organized in cooperation between ISIT Fraunhofer, Emobilität.SH, and the PE-Region Platform project partners:

