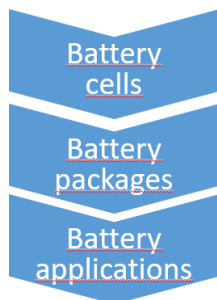


Invitation to a Danish-German PE-Region Platform seminar:

## **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:



Materials and methods for production of stable battery cells with high energy density

Efficient, reliable and cost competitive battery packages which are fit for customer purposes

Integration of battery packages within electro mobility and Smart Grid applications, and efficient charging

This seminar provides interesting new insights in current development for new materials in battery technologies. New materials and production technologies offer higher power density, new application cases and more sustainable use of batteries.

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

### **PROGRAMME**

- 13:00 Start-up and welcome  
[Thomas Ebel, SDU-CIE]
- 13:05 Introduction to seminar and outlook for regional battery forum  
[Thomas Ebel, SDU-CIE / Gustav Nebel, Sønderborg Vækstråd]
- 13:10 Silicon as potential anode material for future li-ion batteries  
[Dr.-Ing. Sandra Hansen, CAU Kiel]
- 13:50 Current Developments of Co-free cathodes  
[Dr. Reinhard Mörtel, ISIT - Fraunhofer Institute, Kiel]
- 14:20 Break
- 14:25 Challenges and opportunities of high-power batteries for stationary applications  
[Marco Schleutker, Alzner Battery]
- 14:55 Battery structure and cell design at SDU  
[Thomas Ebel, SDU-CIE]
- 15:25 Closing of the event  
[Thomas Ebel, SDU-CIE]

\*When attending the online meeting, please keep your microphone muted when you are not talking.

#### **TIME AND PLACE**

29 March 2022  
13:00 – 15:30 (online)

#### **WEBINAR-LINK**

Participation is free of charge.

[SDU-Zoom-Link-Webinar](#)

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

