

# SweGRIDS Conference, 2020

## Program

- 9:30 Mingle at test of technology
- 10:00 Opening of the conference - Lina Bertling Tjernberg Moderator
- 10:05 Welcome - Alireza Nami, Chair of SweGRIDS
- 10:10 The SweGRIDS program - Rajeev Thottappillil, Director
- 10:20 Pitch project presentations
- 12:20 Lunch Break
- 13:00 Invited key note lecturer: Bo Normark, Industrial Strategy EIT InnoEnergy.
- 13:20 Group meetings in Zoom per the four project themes
- 14:00 Summary discussion from group meetings
- 14.40 Industrial pitch of ideas future ideas of projects
- 15.00-15:30 Closure with award for the best PhD student pitch

## Link to the meeting:

<https://us02web.zoom.us/j/85844626777?pwd=NVRVQ3VlU01rLzVxOm9VMitoNHNzdzo9>

## Key note lecture

*Batteries are building a new power system a new industry in Europe*

Bo Normark, Industrial Strategy EIT InnoEnergy

Batteries have the potential to transform the power, industry and transport sectors. We can now see a dramatic market increase for Battery Electric Vehicles. This is driving an unprecedented cost reduction for batteries that also will benefit other applications. The power sector is one of those where the market is still grossly underestimated. The presentation discusses what constitutes “Market Tipping Points” but also how an entirely new battery industry is being built in Europe.

## Group discussions

*All participants have been divided into one of the following groups with discussion leaders in brackets:* Flexible and digitalized power system and market (Mohammad Reza Hesamzadeh KTH), System operation and reliability (Fredrik Carlsson Vattenfall), Materials for Smart Grids and Storage (Fredrik Brändström STEM and Reza Younesi UU), Components and controllability (Ola Ivarsson EON and Hans Edin KTH). The transfer to the group rooms will be done automatically.

*The questions that will be discussed are as follows:*

Sweden has the goal of 100% electricity production from renewables by 2040 and zero net emission of green house gases by 2045.

- i. What critical research challenge, in or near your thematic area, must be addressed and solved to achieve these goals?
- ii. What type of collaboration between academia and industry do you see as likely or necessary for this?
- iii. What new PhD or Postdoc projects would you suggest in the coming five years in order to approach this challenge."

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