

#IEEE@Siemens2021

Power Transmission System in the Climate Neutral Society – from Finnish to Nordic Perspective

Expert talk covers:

- Future scenarios for transmission system [Click to add text](#)
- Development needs for the future power system
- Characteristics of the future power system



Janne Seppänen

Senior Expert at Fingrid and
Professor of Practice at Aalto
University



Wednesday, 17th of Nov. at 9.10 – 9.45 am. (CET)

#IEEE@Siemens2021

Power Transmission System in the Climate Neutral Society – From Finnish to Nordic Perspective

Development towards climate neutral Nordic society induces an unprecedented change in the energy sector. For example, consumption in the Nordic power system is growing due to electrification and new types of loads. On the other hand, the amount of renewables is growing at a rapid speed and conventional generation is being phased out. The power system of the future will be significantly different. The transmission grid is in the core of this system. This presentation will first illustrate the Finnish future scenarios used for transmission system planning and present how the future Finnish transmission system could be developed. The second part of the presentation focuses on the entire Nordic power system and presents a Nordic future scenario as well as characteristics and needs for the future energy market.

About Janne:

Works as a Professor of Practice in the field of Power Transmission Systems at Aalto University and as a Senior Expert in the Strategic Grid Planning unit of Fingrid. He has a PhD degree in Power Systems and High Voltage Engineering from Aalto University from 2017. His main industrial expertise cover transmission system planning. His research interests are related to power transmission system dynamics and stability, system planning and analysis, and system operation and control.

#IEEE@Siemens2021

“Development towards climate neutrality induces an unprecedented change in the energy sector. Future energy system will be significantly different compared with the current system and transmission grid is in the core of this system.”

Janne Seppänen

Senior Expert at Fingrid and Professor of Practice
Aalto University



SIEMENS