

IEEE Sweden PE/PEL Chapter

IEEE Seminar on “The role of inertia and fast frequency control in the Nordic power system” by Dr Robert Eriksson, Svenska kraftnät

Date: April 23rd, 2021

Time: 12:00-13:00

Registration (by Apr 21st): [IEEE Lunch Webinar Inertia in the Nordic grid \(simplesignup.se\)](https://www.simplesignup.se)

Abstract:

Integration of renewable power generation replaces synchronous generators and leads to reduced inertia. This in turn challenges the short-term balancing of the power system. This seminar discusses synthetic inertia from the perspective of a transmission system operator and compares it to fast frequency response based on frequency deviation. A clear distinction of the meanings between these concepts is discussed, the basis of which is a description of their characteristics. Synthetic inertia is defined as one of the grid-forming capabilities that may be provided by converters. Future trends and developments to meet future system needs are also discussed.

Biography:



Robert Eriksson received the M.Sc. and Ph.D. degrees in electrical engineering from the KTH Royal Institute of Technology, Stockholm, Sweden, in 2005 and 2011, respectively. He held a position as Associate Professor at the Center for Electric Power and Energy, DTU Technical University of Denmark, from 2013 to 2015. He is currently team leader at the Swedish National Grid (Svenska kraftnät), Department of Power Systems. Since 2020, he also holds a position as Adjunct Professor at the KTH Royal Institute of Technology. His current research interests include power system dynamics and stability, automatic control, HVDC systems, and WAMS.

Welcome!

Dr. Ambra Sannino - Chair of the IEEE Sweden PE/PEL Joint Chapter