

IEEE Sweden PES/PELS Chapter

Welcome to the Annual Meeting 2025 of the Joint PES/PELS Chapter!

Date: March 5th, 2025
Time: 15:15-17:00 CET (followed by mingle and networking)
Location: Hybrid event at KTH Campus, room H1, and Zoom
(link for remote participation will be sent upon registration)

Registration: by March 3rd in [vTools](#)
(refreshments will be served, if attending in person inform on dietary requirements in your registration)

Agenda:

- Activity Report 2024
- Presentation of the 2025 Board
- *Keynote Speech by new IEEE Fellow Hans Björklund, Corporate Executive Engineer at Hitachi Energy*
- Awards
 - Best M.Sc. thesis
 - Best Ph.D. thesis
 - Outstanding Engineer Award
 - Outstanding Volunteer Award

Keynote Speech

“HVDC, a Swedish invention about to change the power grids forever. Some reflections from 50 years at the forefront of power transmission technology”



Hans Björklund, Corporate Executive Engineer, Hitachi Energy

Hans Björklund received his M.Sc. degree in Electrical Power Engineering from the Royal Institute of Technology (KTH), Stockholm, Sweden in 1974. That same year he started working for ASEA in the HVDC department performing system- and simulator-studies and designing HVDC control solutions. He developed the world's first microprocessor based remedial action scheme in 1976 and performed simulator studies of sub-synchronous torsional interactions between HVDC converters and connected synchronous generators.

Hans led the development and design of the world's first digital control system for HVDC for the Itaipu project in Brazil from 1979 and from 1982 he led the design of the first fully redundant high-reliability HVDC control system for the Intermountain Power Project. From 1987 Hans Björklund led the development of several generations of the MACH control and protection system within ABB and later Hitachi Energy. The very high performance of this system enabled the introduction of the first HVDC system using voltage source converters utilizing IGBTs in 1999. This marked the start of the transformation of mainstream HVDC towards VSC based solutions.

Hans is active in Cigre and IEC and has authored over 25 papers on various aspects of HVDC controls. He received the Polhem Price from the Swedish Engineers Society in 2014 and the IEEE PES Uno Lamm High Voltage Direct Current Award in 2021.

In 2024, Hans Björklund was elevated to the grade of IEEE Fellow.

Welcome!

Ambra Sannino – Chair of the IEEE Sweden PES/PELS Joint Chapter

Qianwen Xu – Vice Chair of the IEEE Sweden PES/PELS Joint Chapter