BJÖRN HAGSTRÖM

Björn received his M.Sc. in Engineering Physics at Uppsala University in 2013. He has more than 10 years of experience in high voltage testing and engineering from his employments at STRI and Hitachi Energy. Since April 2022 Björn is working as a Specialist at Independent Insulation Group, Sweden, where he is mainly working with high voltage technology and integration of renewable power.

MAIN FIELDS OF COMPETENCE

- Integration of renewable power and power system analysis
  - Grid code compliance processes as per EU 2016/631 “RfG” and EIFS 2018:2
  - Static and dynamic simulations and modelling.
  - Design studies
  - Protection coordination
- High voltage testing
  - Test-circuits
  - Transient studies (Lightning/switching impulse)
  - Measuring techniques
  - Partial discharge

WORK EXPERIENCE

2022 – **Independent Insulation Group Sweden AB,** Ludvika, Sweden
Specialist

2019 – 2022 **Hitachi Energy**, **STRI,** Ludvika, Sweden
Senior Test Engineer
The work is similar to the position as Test Engineer, but as a Senior Test Engineer the work is also focused on improving test methods and test circuits, measuring techniques, different types of investigations, quotations etc.

2018 – 2019 **Hitachi ABB Power Grids**, Ludvika, Sweden
Quality & OpEx Testing Specialist
In the role as Quality & OpEx Testing Specialist the work was focused on improving test laboratories and test methods to ensure best quality and results in the products and organization.

2013 – 2018 **STRI AB**, Ludvika, Sweden
Test Engineer
As a test engineer at STRI I got experience as project manager for various types of high voltage tests on components such as breakers, bushings, GIS, VSC-/LCC-valves, cable

systems etc. Different type of measuring techniques for AC, DC, lightning impulse, switching impulse, partial discharge, fast and very fast transients etc. are commonly used in the projects.

EDUCATIONAL DEGREES

2008 – 2013	**Master of Science in Engineering Physics** Uppsala University, Uppsala, Sweden. Thesis: Comparison of PSSE & PowerFactory

LANGUAGES

Swedish (native), English (professional level)

LIST OF PROJECTS

2022-	***Protection coordination*** Studies in PowerFactory to coordinate protection settings internally in the power plant and with DSO.
2022-	***Grid code compliance testing – TSO/DSO guidelines, RfG and EIFS 2018:2*** Establish detailed test plans and have the role as test leader during compliance testing. Be the link between investor, DSO and manufacturer.
2022-	***Grid code compliance process – TSO/DSO guidelines, RfG and EIFS 2018:2*** General documentation according to TSO/DSO guidelines for application of operational notifications.
2022-	***Conceptual studies for offshore wind*** Studies in PowerFactory with the aim to investigate different conceptual solutions to enable connection of a large offshore wind farm. Studies include dimensioning of components and evaluation of different control strategies.
2022-	***Connection studies for BESS*** Connection studies for battery energy storage systems.
2022-	***Grid code compliance simulations – RfG and EIFS 2018:2 for numerous wind farms*** Grid code compliance simulations as per RfG and EIFS 2018:2 for numerous wind farms. The studies were performed in PowerFactory. Tuning of PPC to fulfil grid codes and connection agreement.
2022-	***Connection studies for numerous wind and solar farms*** Connection studies for numerous wind and solar farms. The studies considered, for example, reactive power capability and cable dimensioning under normal and fault conditions, as well as evaluation of different turbine types. Studies were performed in PowerFactory.
2013 -	***Project manager for >50 high voltage test projects such as type tests, R&D, destructive*** • High voltage components such as breakers, bushings, insulators, transformers etc. • VSC- and LCC-valves • Cable systems • GIS-equipment

- Live-line working equipment
- Partial discharge
- Radio interference voltage