

## Püssi – Grid Stabiliser

### Synchronous Condenser Unit

#### Project Description

- 1<sup>st</sup> of 3 overall grid stabiliser installations in Estonia
- Grid stabilisation and reactive power control



By adding rotating mass, the synchronous condenser will add inertia and short-circuit power to the grid in order to stabilise power generation from renewable energy sources.

#### Role & Scope

- Commissioning of generator protection systems
- Commissioning of transformer protection systems
- Coordination and consultancy on electrical commissioning activities
- Commissioning LV and MCC Switchboards
- Commissioning automatic voltage regulator (AVR) and starting frequency converter system
- Electrical generator protection & synchronisation commissioning

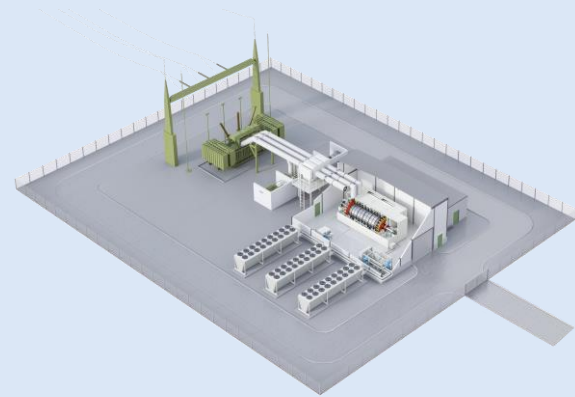
#### Highlights & Benefits

Extensive electrical commissioning proficiency as well as great coordination skills allows INP Experts to take on roles such as Commissioning Managers and direct projects like this to safe and successful completion.

#### Technical Component Details

- 55Mvar Electrical Generator
- Generator Protection, Siemens Siprotec-5, 7UM85
- Transformer Protection, Siemens Siprotec-5, 7UT68
- Automatic Voltage Regulator (AVR) and brushless Excitations System, Siemens RG3-S
- Starting frequency Converter including asynchronous exciter machine, Siemens ELRA
- Generator Circuit Breaker (GCB)
- Power Transformers
- Electrical LV Switchgear & MCC's

## REFERENCE



Customer: **Siemens Energy**



Location: **Püssi, Estonia**



Project Duration: **5 months**



Services: **Commissioning, Commissioning-Management**