

An aerial night view of a city, likely Geneva, with a complex network of glowing green lines overlaid on the landscape, representing an energy grid or data network. The city lights are visible in the background under a twilight sky.

Statnett welcome to CERN Entsoe WG5 –meeting 12th-13th September 2024

Statnett

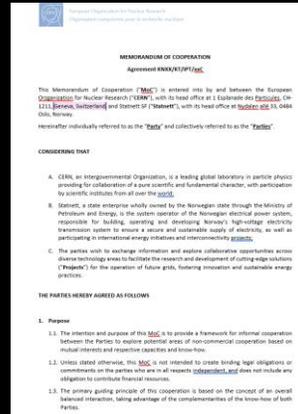
April 2023

30.01. January 2024

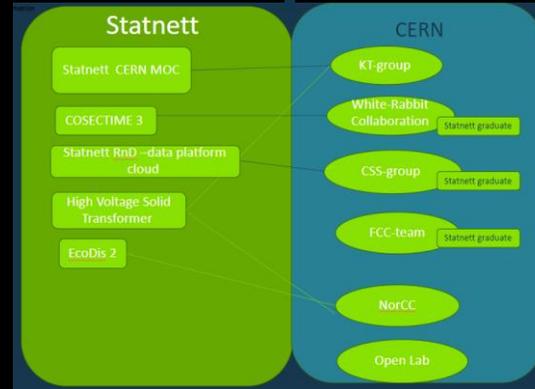
March 2024



First visit to CERN

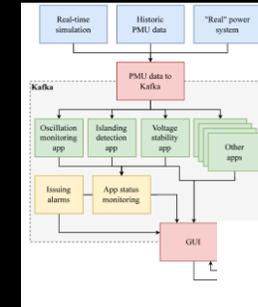


Sign MOC Statnett-CERN



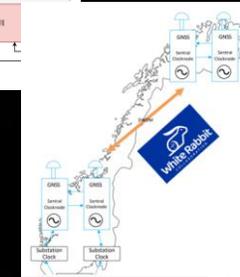
Bi-weekly meetings

- System Operation
- Surveillance and measurements
- Superconductivity
- AI and Machine learning
- Module based control systems
- Drone and robot technology

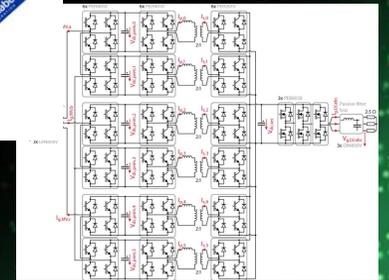


Statnett R&D platform in cloud

Long distance time-synchronization use of White Rabbit

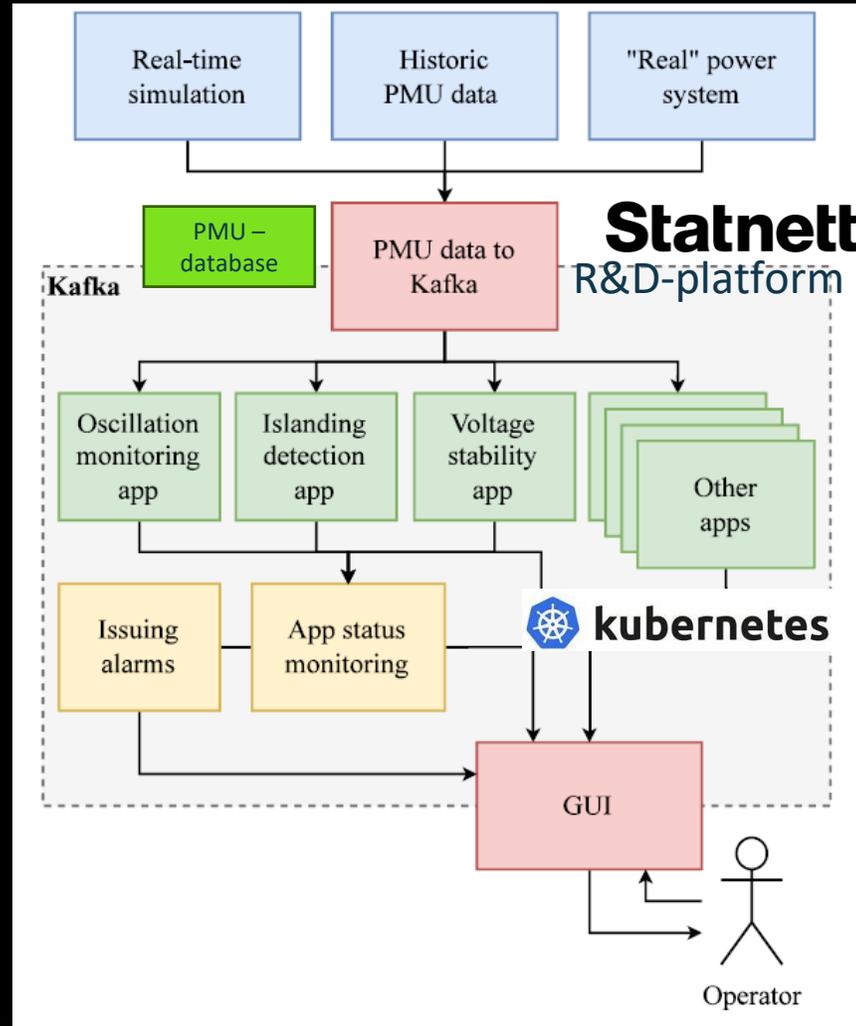


HV-SST



Statnett R&D platform in cloud

Statnett



NEWEPS projektet

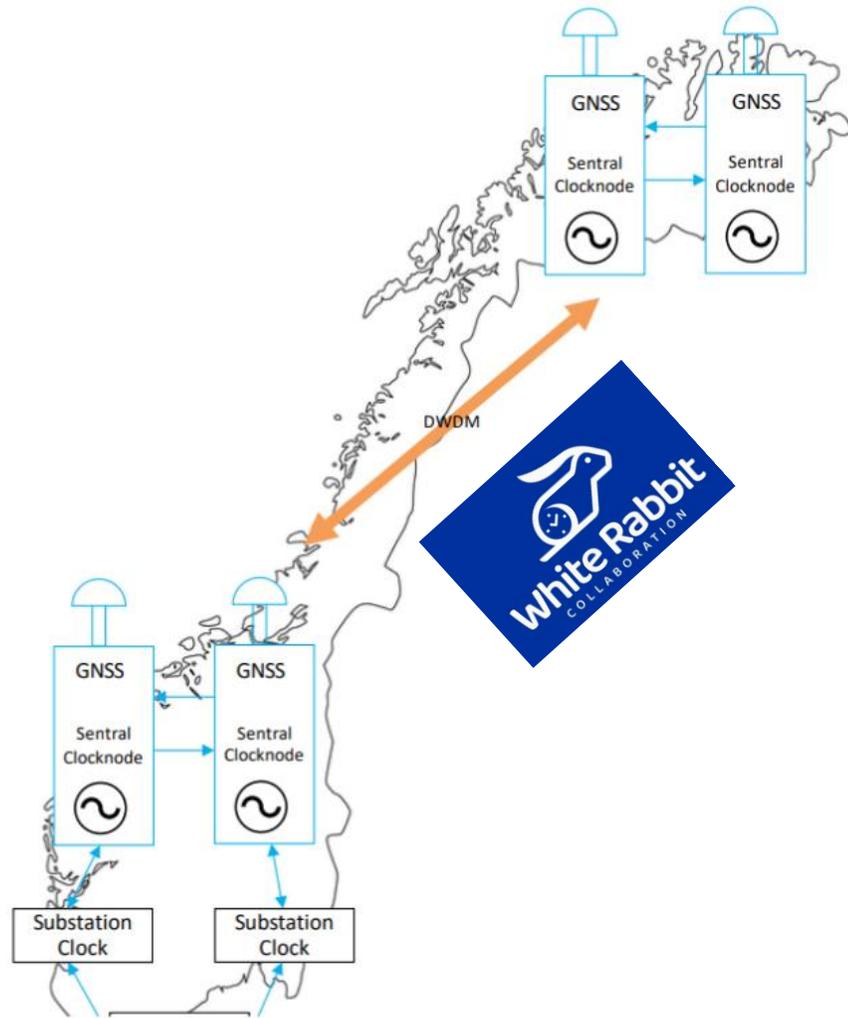


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Long distance time-synchronization use of White Rabbit

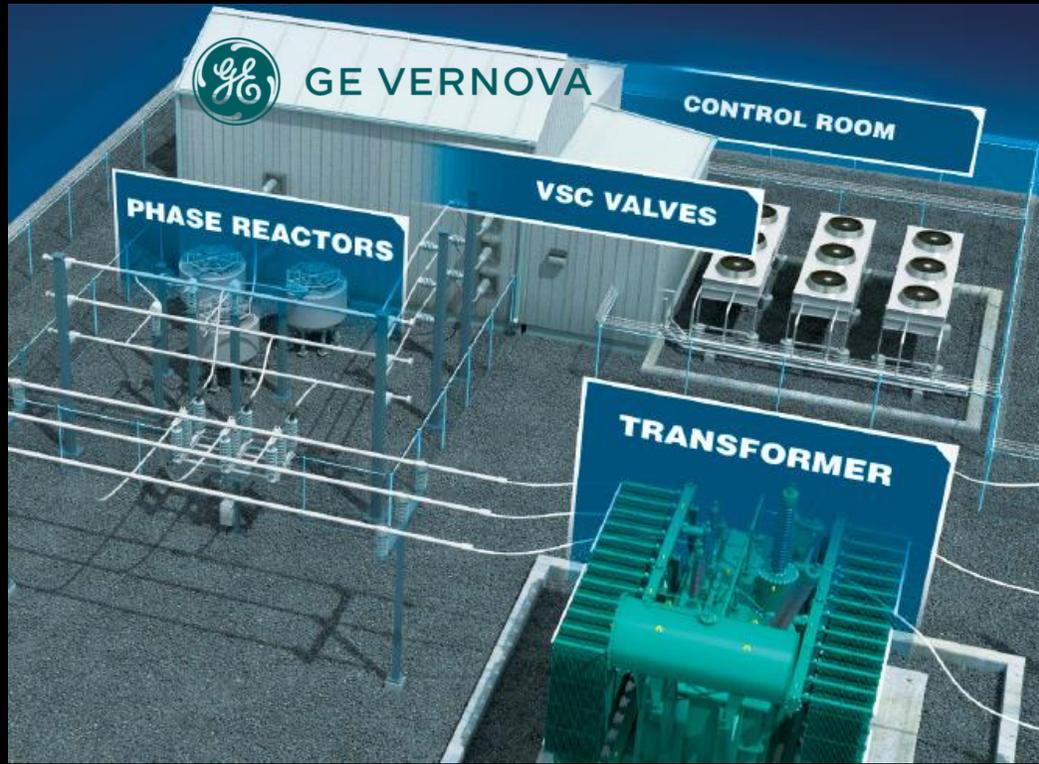


BfK § 7-14 j) Sikker tidsreferanse

Driftskontrollsystem som er *avhengig* av **eksakt** tidsreferanse, skal ha **sikre kilder** for tidsangivelse.

- Statnett generates its own autonomous atomic timescales referenced to UTC
- No direct dependence of global navigation satellite systems
- Redundant clock systems and sync networks
- Deliver accurate timing ($1\mu\text{s}$) to transmission network substations via optical fibers for:
 - Protection relays (over IP)
 - Phase Measuring Unit

High Voltage Solid State Transformer (HV-SST)



Static Synchronous Compensator : Power Delivery Projects : GE Grid Solutions (governova.com)

