

System Studies of HVDC links using Real-Time Simulation



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The increase penetration of power electronics equipment in the network will have more and more impact on the grid performance and reliability. Power electronic devices as HVDCs, FACTs and wind power plants include control and protection systems with a dynamic behavior more complex compared to standard AC devices. Thus it requires skills and tools dedicated to this technology.

To support these activities, numerical tools are needed. They shall offer detailed modeling of HV components and controls while maintaining a good compromise between robustness, accuracy and flexibility.

The usage of EMT-type software to test new technical solutions is continuously increasing in importance. EMT studies performed for the installation of new equipment on the grid are to ensure highest levels of reliability and availability.

To cope with such challenges, RTE (French TSO) have resort to a real time (RT) simulation laboratory. In this laboratory replicas are connected to RT simulators by means of hardware in the loop (HIL) setup. A replica is an exact copy of the actual control and protection system installed on site. This presentation provides an overview on RTE experience in system studies of HVDC links using Real-Time Simulation.



Wann: Dienstag, 22.05.2018, 17 Uhr

Wo: S3 | 06/052 (Hans-Busch-Institut), Merckstraße 25

Und anschließend...

...Diskussion und Austausch im Labor der SRT (S3|09 / 8)

Alle Interessenten sind herzlich eingeladen!



Lageplan S3|06 (Vorträge, HBI) Merckstraße 25



Lageplan Labor des SRT S3|09/8

