

Master thesis

Development and implementation of a STATCOM

The use of power semiconductors is a main element of today's network topology, this must be considered in network calculations and future network concepts. To rely not only on mathematical models, a miniature FACT was developed and implemented in the analog grid model.

The flexible three-phase transmission system (FACT) was developed as STATCOM.

The reference application is to hold the voltage level on a special network node. The voltage fluctuation will be generated by an extra load on the given network node.

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