

FAKULTÄTSKOLLOQUIUM

Am Mittwoch, dem 12. August 2015, spricht um 15:00 Uhr im Raum Z 2086

Dr.-Ing. Johannes Schiffer

(TU Berlin)

zum Thema:

„On Control Concepts for Microgrids“

Abstract:

The microgrid represents one promising solution to facilitate the integration of large shares of renewable energy sources into the electrical grid. The present talk covers several aspects of the operation of microgrids and introduces relevant control problems in such networks. In particular, main operation modes of inverter-interfaced generation units are reviewed and a model of a microgrid is presented.

Furthermore, three important performance criteria in such networks are introduced, namely frequency stability, voltage stability and power sharing. Control schemes to address these problems are discussed. The analysis is illustrated via simulation examples of a microgrid based on the CIGRE benchmark medium voltage distribution network.

Alle Interessenten sind herzlich eingeladen.

Die Hochschullehrer der Fakultät

Ilmenau, 14.07.2015