

Bearbeitung: offen  
Zeitraum: ab sofort



Typ: Project Thesis (PA) / Bachelor Thesis (BA)  
Thema: **Modelling the TYNDP grid in PowerFactory using the Common Grid Model Exchange Standard (CGMES)**



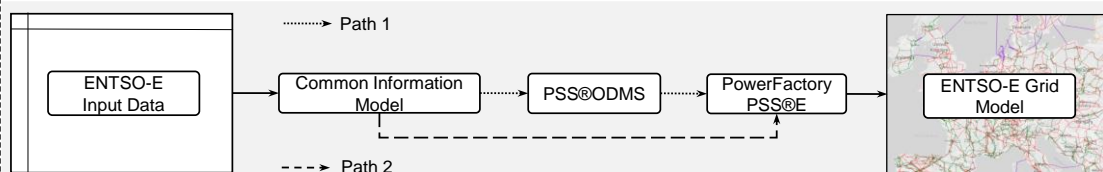
Betreuer: M.Sc. Burlakin, Ilya  
Kontakt: [ilya.burlakin@fau.de](mailto:ilya.burlakin@fau.de) – LEES

**Keywords:** ENTSO-E, Ten-Year-Network Development Plan (TYNDP), Transmission Grid, Grid Modelling, CIM, CGMES

### Description

ENTSO-E, the European Network of Transmission System Operators for Electricity, is the association for the cooperation of the European transmission system operators (TSOs) and is responsible for the secure and coordinated operation of the largest interconnected electrical grid in the world.

ENTSO-E publishes a Ten-Year-Network Development Plan (TYNDP) using a CIM-based network model. The data set is to be implemented in common power systems simulation software (DIgSILENT PowerFactory, PSS®E, ...).



### Scope

- Analysis of the Ten-Year-Network Development Plan
- Introduction to common power systems simulation software
- Introduction to the Common-Information-Model (CIM)
- Modelling of large transmission grids

### Requirements

- Independent, careful and structured way of working
- Knowledge of electrical power systems

### Note

This project marks the start of a new series of projects on modelling of the European transmission grid. Students who are interested in a long-term collaboration can also apply by e-mail: [ilya.burlakin@fau.de](mailto:ilya.burlakin@fau.de)

Datum: 26.09.2021