

Bachelor's/Master's Thesis

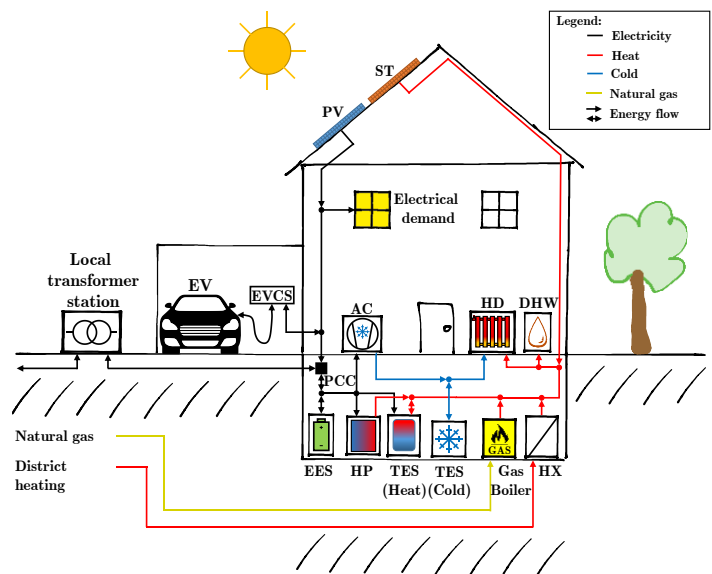
Online Simulation Tool ProsOpt

Initial Situation and Motivation

Hybrid energy systems combine cross-sectoral energy sources and supply systems as well as energy distribution and storage in a compact system. The aim is to substitute fossil energy sources with mainly renewably generated electricity or other renewable energy sources and sustainable forms of energy use. The basis of optimal and energy-efficient system design and operation is the knowledge of the interaction of the system components and their interdependencies

At the Institute of Electrical Power Systems, a simulation model **ProsOpt** has been developed using Matlab, which can model, simulate and analyse hybrid energy systems.

This **simulation model ProsOpt** should now be implemented as an **online simulation tool on the Institute's homepage** as part of a Bachelor's/Master's thesis.



Research Questions and Tasks

- Research on **Online Simulation Tools** (implementation, licences, etc.).
- **Development and implementation** of a concept to transfer the **Matlab-based simulation model ProsOpt** into an **online simulation tool**.

Organisation Matters

Start: immediately

Language: German or English

Thesis: LaTeX or MS-Word

Contact persons / Supervisor

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