Simulation-based optimization of the operation of large-scale heat pump systems

**Objectives**
- Dynamic model for large-scale HP system
- Optimization of operating strategy
- Derivation of constructive modifications

**Motivation**
- Increasing share of renewables and district heating
- Large-scale heat pumps are key components
- Optimal operation wrt. various services required

**Conditions**
- Master's project (Possible to adjust to Bachelor's)
- Experienced supervisors at DTI
- Involvement in cutting-edge R&D projects
- Collaboration with manufacturers and customers possible

**Methods**
- Dynamic modelling
- Numerical optimization
- Control strategies

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