Electricity market modeling

Modeling of charging profiles and flexibility potential

- Modeling of profile for an average week
- Hourly resolution
- On federal-states level
- For different fleet types and charging locations (f.e. highway service station)

Dispatch

- Maximization of social welfare
- Spatial extend: Austria and neighbouring bidding zones
- Renewable energy sources, thermal power plants, storages
- Electricity trading via interconnectors (NTC) between bidding zones

Redispatch in Austria

- Minimization of redispatch costs
- Congestion management
- Austrian transmission grid represented by 17 nodes
- Control of thermal power plants, storages and curtailment of renewables