

Services - Entrust our ClaRa+ experts to find solutions for your problems

Electricity production from renewable energies such as wind and sun is continuously increasing. The combination of their fluctuating generation and priority feed-in is resulting in new operating modes for conventional power plants. Engage our experts to solve your problems arising from this changing energy market using ClaRa⁺ - a powerful tool for dynamic system simulation.



Your Challenges

- Make your plant more competitive in changing energy markets
- Enhance range of operation
- Analyse sub-optimal controllers
- Improve control quality

We Can Help You

- Check plant failure behaviour
- Check part load behaviour
- Detect bottlenecks
- Evaluate alternatives in planning phase
- Improve performance already in planning phase

Services

- Modeling & programming
- Simulation & post-processing
- Training
- Subcontracted research projects
- Tailored software solutions

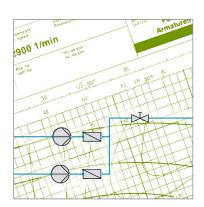


Services – As experts in modeling and simulating power plants and complex energy systems, we support you to find optimal solutions



Simulation Studies - Entrust Us with Your Problems

- Concept studies and concept evaluations
- Evaluation of dimensioning
- Design and optimization of control systems
- Virtual commissioning
- Sizing of components like tanks and valves considering static and dynamic restrictions



Customized Models - We Support Your Simulation

- We model and implement the steam generators, heat exchangers, pumps, valves and controllers installed at your site
- We calibrate and parameterize models according to data sheets or measurements
- We model non-standard aggregates according to your requirements



Training - We Support You in Building up Know-How

- Become an expert in power plant simulation with a three-day course
- Get to know the scope of ClaRa⁺
- Create a dynamic power plant model learning by doing
- On request, we can adapt course content to your needs and train you at your premises

ClaRa⁺ is an enhancement from the ClaRa library which was developed in the research projects DYNCAP and DYNSTART.





