ClaRa+ Training:

Introduction to the Modelica Library ClaRa+

Scope of Library
ClaRa+ allows to model the transient, thermal behaviour of power plants and power systems. The library covers the modular description of all components of the water-steam cycle and the gas path of coal dust fired boilers and heat recovery steam generators.

Training course objectives
The objective of the 3-day course is to introduce the participants to the Modelica library ClaRa+.

Participants
The training course is for engineers and scientists who deal with development and simulation of energy systems. Please note that the number of participants is limited to 6 attendees in order to enable an intensive support of the group.

Course instructor
The course is held in English (on demand) by the developers of the library. They have modelled energy systems in several industrial and research projects for many years and used ClaRa+ successfully for real-life applications.

Prerequisites for attending
For a successful participation you should have a fundamental knowledge of using the simulation software Dymola as well as common functional principles of the model description language Modelica.

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Content
- Purpose of the library
- Package structure and scope of the library
- Discussion on selected components
  - Modelling ideas
  - Features, accuracy and limits of validity
  - Expert settings
  - Numerical properties
- Model creation of an example power plant
  - Overview on required steps
  - Creation of a static model
  - Creation of specific subsystems of the plant
  - Combine the subsystems to form the power plant
  - Discussion of results
- Individual studies of participants’ use-cases

Course length and place of event
The course will take 3 days (9 hours each including lunch break).
It takes place in XRG’s training rooms in Hamburg, Germany (view).

Costs
The course fee is 1950 € for industrial participants and 1200 € for academic participants (plus VAT). This includes training material and catering (lunch, beverages). Accommodation expenses are borne by the participants. Please contact us, if there is need of an individually customized quotation.