



TLK-Thermo GmbH



Simulation GmbH

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 by developers of the library. They have modelled model energy systems in industrial and research projects for several years. Additionally, they are the main developers of ClaRa and were involved in many projects using the library.

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.

Contact:

training@claralib.com



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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). The course can be held online or in person. We would be happy to make you a special offer to hold the course at your premises.

Bookings

For your requests, please send an email to training@claralib.com. You will receive a quotation via email and make your booking. The booking will be confirmed via email. You may cancel free of charge up to 14 days before the course begins. After this deadline, we will charge a cancellation fee of approx. 50 % of the cost.

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