



SHIP2FAIR

Solar Heat for Industrial Process

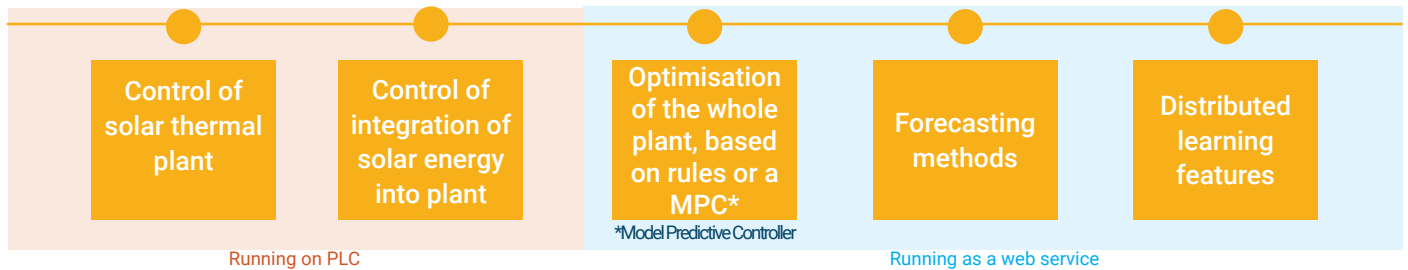
THE CONTROL TOOL

WHAT IS THE CONTROL TOOL?

The Control Tool is an **application** that helps optimising and improving the integration of solar heat into industrial processes (SHIP) during operation and at different control levels. The tool takes the measurement data, calculates the best operating strategy, and controls the system.

It is built as a framework offering to “plug together” certain modules which can be applied separately or together depending on the level of automation available and the needs of the plant. The modules are partly running on-site on a PLC or online as a web service.

The tool consists of a framework of 5 modules:



FOR WHAT PURPOSE CAN IT BE USED?

- To optimally operate integrated solar heat processes, incorporating low-level control aspects, high-level optimisation of the whole system, and advanced data-mining techniques
- To make the most of the solar production for a particular process
- To optimise the management of solar production integrated with Thermal Energy Storages (TES) in collaboration with already installed process heating and Combined Heat and Power (CHP) generators



HOW IS IT DESIGNED?

The tool is flexible and can be applied to a multiplicity of systems, depending on:

- the user's needs
- the plant design
- the level of automation



WHAT ARE THE BENEFITS?

- Online graphical user interface
- Control of the solar thermal collector
- Possibility to investigate data, see the forecasts and suggestions provided by a MPC



WHO CAN USE IT?

- Solar thermal plant operators
- Process plant operators

HOW TO USE IT?
Contact us at info@ship2fair-h2020.eu

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