



**SHIP2FAIR**

**JUNE 2021**

**Unveiling the untapped potential of  
Solar Heat for Industrial Process  
in the EU**

**[WWW.SHIP2FAIR-H2020.EU](http://WWW.SHIP2FAIR-H2020.EU)**

## REPLICATION AND CONTROL TOOLS & DEMO-SITES

The Replication Tool is a software that evaluates the techno-economic potential of a Solar Heat technology based on local solar potential and process heat demand.

This tool is able to provide a first outlook on the SHIP integration within the process and to optimise the system according to the user's needs. It provides:

- Evaluation of solar field parameters
- Expected energetic and environmental results
- Preliminary economic figures



Both tools are based on a powerful ICT Infrastructure and can be accessed from the user/operator through the browser.

The Replication Tool optimizes the design and the Control Tool the operation of SHIP systems.



The Control Tool optimizes the integration of Solar Heat into industrial processes:

- From low-level control aspects
- To the system as a whole
- Additionally providing advanced data services using data mining techniques

The tool aims to be as flexible as possible so that it can be applied to a multitude of systems in accordance with user needs, plant design and the level of automation.

SHIP2FAIR is validating systems for Solar Heat in industrial processes at 4 sites



## FLAGSHIP PROJECTS

	<b>Sugar boiling</b> Porto, Portugal	
	<b>Foie gras manufacturing</b> Figeac, France	
	<b>Spirits distillation</b> Pessione, Italy	
	<b>Wine making process</b> La Rioja, Spain	

Solar Fresnel Concentrators



High Vacuum Flat Panel



High Vacuum Flat Panel



Evacuated Tubes



*"The sun is the original source of energy. Why don't use solar heat for your industrial process?"* Christophe Dumas - CEA Cadarache

## THE WINNING FORMULA

### RENEWABLE ENERGY INTEGRATION

Cover up to 40% of the heat demand from processes of the agro-food industry by solar energy.

### MARKET UPTAKE

Design simple solutions, easy to install and operate also by SMEs thanks to tailored financial schemes, business models & training.

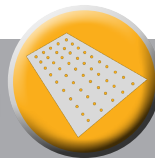
### NEW BUSINESS LINES

Ensure the cost-effectiveness of investment in solar heat integration into industrial processes thanks to:

- Competitive solar thermal technologies
- Optimal heat integration
- Tailored control strategies

### SOLAR THERMAL TECHNOLOGIES

High Vacuum technology



Linear Fresnel technology



Evacuated tubes technology



## THE TEAM

### Coordination



### Demo-sites hosts & agro-food experts



### Solar thermal technologies providers



### Research & Innovation



### Dissemination & training



## CONTACT US



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