



# CNRS-PROMES Presentation

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<b>Institution</b>	Processes, Materials and Solar Energy laboratory
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### Mission Statement:

Medium temperature heat transfer fluids and thermocline storage

Polygeneration

Hybrid systems

High temperature heat for solar thermochemistry and related receivers and reactors

## SHIP Competences:

- Solar collectors (medium temperature)
- Thermal storage
- Particle receivers and reactors
- System modeling
- Short term DNI forecast
- Training



## SHIP Research Infrastructure:

- A laboratory to measure optical properties of solar materials
- A 150 kW parabolic trough loop with 2h storage and steam generation
- A 1 MW solar furnace to study high temperature thermochemical reactions
- A 5 MW solar tower to develop hybrid solar concentrating systems





## Participation in INSHIP:

**Work package involvement:**

WP 8

**Person months (national + EC):**

2

## **Objectives:**

- National innovation strategy on SHIP
- High temperature particle receivers and reactors with industrial vision
- Connection with SOLPART EU project