

# Solar Perform:

# Design optimization of Molten Salt Solar Receiver

## The context

The Molten Salt Solar Receiver is one of the key equipment of the CSP tower plant. John Cockerill Solar is working on the improvement of the performances and reliability of this equipment in order to optimize its design and cost.

## Project Description

The Solar Perform is focused on the improvement of the efficiency and reliability of the Molten Salt Solar Receiver by the development of:

- A new accurate lifetime prediction model “Solar Perform” to improve the reliability of the solar receiver.
- A new silicon based solar absorber paint with high efficiency and reliability at high temperature. The new coating developed is “CoteRill 750”.

## Partners

### John Cockerill:

Design optimization of the MSSR

### Lithcote:

New solar absorber coating development

### CRM:

Thermomechanical tests and coating validation

### MSM-ULiège:

Lifetime prediction model

## Schedule

From 01/09/2016 to 31/08/2019

## Budget

Total: 1251K€ / Funding: 890K€

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LITHCOTE

