

# SOLHEATAIR: Development of an Integrated Renewables Solution for the Production, Storage and Recovery of Hot Air

## The context

Reducing CO2 emissions is the challenge of this century. The industry and transport sectors emit more than 30 billion tons of CO2 into the atmosphere each year. In response to this observation, John Cockerill, led several developments to present the most suitable solutions to decarbonize these sectors.

## Project Description

The SOLHEATAIR project aims to develop a solution for the production, storage and recovery of hot air produced by renewable energy sources, to be used in industrial processes (such as lime and steel production), electricity and heat networks, thereby reducing CO2 emissions and moving towards carbon neutrality.

## Partners

### John Cockerill Renewables:

Hot Air Solar Receiver, storage system and demonstrator

### Prayon:

Optimized high temperature storage material

### B-Sens:

Optical fibers sensors for high temperature measurements

### INISMA:

Ceramic material testing and characterization

### UMONS:

Development of systems Management Tool

### MASEN:

Installation and tests of storage demonstrator in R&D Plant



## Schedule

From 01/10/2022 to 30/09/2025

## Budget

This project receives funding from the Walloon Government as part of the MecaTech Cluster's Call for Projects 34.

Total: 4 M€

RW funding: 2 M€

