MSA-Trough

Development of a parabolic Trough concentrator system for Molten Salt Application

MSA-Trough Webinar Series

Design of an innovative parabolic trough collector – the MSA-Trough concept

17 September 2024, 10h00-11h30 CEST

Online

No registration fees

Webinar Overview

The EU has the ambition to become a leading player in the net-zero industries of the future, in line with its carbon neutrality objectives to 2050. In order for concentrating solar power (CSP) to become a main component of the green energy technology revolution, a series of innovations must occur to increase its competitiveness and lead to market deployment.

The Horizon Europe Innovation Action project **MSA-Trough**[1] addresses some main technological challenges to deliver low cost, reliable, efficient and sustainable electricity. A novel concept based on parabolic trough technology using molten salts as heat transfer fluid and storage medium has been elaborated, which will be developed and tested at the Évora Molten Salt Platform in Portugal.

To increase knowledge exchange, exploit possible synergies, identify exploitation opportunities and ultimately lead to CSP market resurgence the MSA-Trough consortium is inaugurating a series of webinars to share research findings, discuss challenges and identified solutions, learn from other experiences and incorporate stakeholders feedbacks.

The first webinar will illustrate the main challenges addressed in the design of the innovative parabolic trough collector and explain the technological solutions adopted. Audience interaction tools will be used to ensure a transparent and constructive dialogue with the attendants. The event, free of charge, is addressed to scholars, engineers, industry manufacturers and any other stakeholders having a research interest in sustainability innovation and forward-thinking policy definition.

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[1]"Development of a parabolic Trough concentrator system for Molten Salt Application", coordinated by the University of Evora and executed by seven European partners under CINEA funding over a 42-month period (October 2023 – March 2027).

Agenda

10:00 – 10:30	**MSA-Trough concept and objectives**	
10:00 – 10:10	Welcome and overview of the project	Diogo Canavarro, UEVORA, project coordinator
10:10 – 10:30	MSA-Trough concept and expected contribution beyond state-of-the art	Martin Eickhoff, DLR
10:30 – 11:15	**Roundtable discussion**	
	What have been the main challenges in terms of the collector design to adapt it to the MSA-Trough concept? *What were the main issues discussed between the designer of the collector steel structure and the composite mirror designer?* *One major upgrade in the MSA-Trough concept is the development of an automatic mirror washing device. What have been the analysed configurations to integrate such device into the overall MSA-Trough collector design scheme?* *Have you assessed the efficiency improvement and the cost reductions of such technological improvements?* *What is their possible replicability and scalability? What are your plans, ideas for wider application?* Q&A and interaction with the audience through Slido	**Moderator:** Diogo Canavarro, UEVORA **Panelists:** Daniel Morales, FERRUM Martin Eickhoff, DLR Timo Zippler, SOLARLITE Javier Molina & Francisco Morales, RODAMA Dirk Krüger, DLR
11:15 – 11:30	**Next steps and conclusions**	

Speakers

Diogo Canavarro

Project Coordinator

UEVORA

Martin Eickhoff

Scientific Staff Member

DLR

Daniel Morales

Industrial Designer

FERRUM

Timo Zippler

Project Engineer

SOLARLITE

Javier Molina

R&D Project Manager

RODAMA

Francisco Morales

Industrial Electronics Engineer

RODAMA

Dirk Krüger

Scientific Staff Member

DLR

How to register

Please **register** to the event here

REGISTRATION

You are kindly invited to forward the invitation to all your colleagues who might be interested in participating at the event.

Further instructions will be sent in due time.

Funded by the European Union

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MSA TROUGH

Thank you very much & look forward to your participation

contact@msa-trough.eu

www.msa-trough.eu

UNIVERSIDADE DE ÉVORA

Ferrum tecnoindustrial

solarlite plugged to the sun

DLR Deutsches Zentrum für Luft- und Raumfahrt German Aerospace Center

ENEA Italian National Agency for New Technologies, Energy and Sustainable Economic Development

ome Observatoire Méditerranéen de l'Energie

RODAMA