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CSP ERA-NET has received funding from the European Union's Horizon 2020 Research and Innovation Program under grant agreement No. 838311



# CSP ERANET

**Cofund Joint Call for the Concentrated Solar Power,  
Research and Innovation**

**SPANISH INFODAY 29.10.2021**

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# CSP ERANET CONSORTIUM



*Ministero dell'Università e della Ricerca*



Schweizerische Eidgenossenschaft  
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Direção-Geral  
de Energia e Geologia



TÜBİTAK





**Implementation:** June 2019 – May 2024

**Participants:** 8 countries + 2 regions

- Aims to coordinate efforts of Member States, Associated Countries and regions to achieve CSP **SET Plan objectives**, pooling financial resources to bridge the gap between research and commercial deployment.

**Challenges** to overcome:

- Reduce investment and O&M costs
- Increase competitiveness
- Increase efficiency and reliability and system and component level
- Reduce the technology footprint





Spain



Switzerland



Germany



Greece



Israel



Italy



Portugal



Turkey

# 1st Joint Cofund Call

The **CSP ERANET 1st Cofund Joint Call** was launched on October 7, 2019. It counted with the participation of 11 Funding Agencies from 8 EU and Associated Countries and a total budget of **€13 million**.

**6 proposals** were submitted by **June 19, 2020**, end date of the full proposal stage.

The **Expert Panel Meeting** in which the ranking list was approved, took place online on **October 19, 2020**. The main goal of the meeting was to establish the ranking list of the 6 proposals submitted at the full proposal stage, on the basis of the scores and evaluation comments given by the 9 evaluators participating at the evaluation stage of the CSP Eranet Joint Co-funded Call (one independent observer and 7 representatives of the funding organizations also participated in the meeting).

The **Call Steering Committee Meeting** took place on **October 26, 2020**, following the Expert Panel Meeting. It was decided during the meeting that **all the ranked six projects would be funded**, with a total requested funding of €9,1 million, which is 70% of the total project costs.





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### European Parabolic Trough with Molten Salt (EuroPaTMoS)

**EuroPaTMoS** pulls together the European expertise and testing infrastructure for parabolic trough (PTC) with molten salt (MS), to accelerate transfer of technology from R&D to commercial deployment.

[Read more](#)

## EuroPaTMoS

**TOPIC: 2. Parabolic trough with molten salts**

**Coordinator: Deutsches Zentrum fuer Luft- und Raumfahrt EV**

10 partners from:



## NEWCLINE

**TOPIC: 8. Advanced TES (Thermal Energy Storage)**

**Coordinator: Universitat Politècnica de Catalunya**

5 partners from:



### Advanced thermocline concepts for thermal energy storage for CSP (NEWCLINE)

Thermocline is a cost efficient thermal storage system able to reduce capital costs up to 40%. The objective of **NEWCLINE** is to develop new thermocline concepts that can be applicable to different CSP plants (PT, CR, LF).

[Read more](#)





## InnoSolPower

TOPIC: 8. Advanced TES (Thermal Energy Storage)

Coordinator: Pars Makina Ltd. Research and Development

4 partners from:



## Thermal Energy Storage for On-demand Solar Trigenation (TES4Trig)

TES4Trig aims at unifying the strategies established at the EU SET plan for CSP into a single innovative CCHP system driven by solar parabolic trough collectors (PTCs), based on the integration of the Organic Rankine Cycle (ORC) and Ejector Cooling Cycle (ECC) with a cost-effective TES system.

[Read more](#)

## TES4Trig

TOPIC: 8. Advanced TES (Thermal Energy Storage)

Coordinator: National Technical University of Athens

6 partners from:



## INNOvative SOLar micro-TES with high-POWER density (InnoSolPower)

The InnoSolPower project aims to demonstrate a **novel concept of an efficient, low-cost, low temperature, high energy density micro-thermal energy storage ( $\mu$ TES) dedicated to concentrated solar power (CSP) systems.**

[Read more](#)





## Si-CO

TOPIC: 3. Parabolic trough with silicone oil

Coordinator: ACCIONA INDUSTRIAL S.A.

8 partners from:



High performance parabolic trough collector and innovative silicone fluid for CSP power plants.(Si-CO)

The Si-CO project aims to **techno-economically demonstrate a new optimized and large-scale parabolic trough collector (Si-PTC) design** that operates using HELISOL@XLP at 430°C, a siliconebased heat transfer fluid (Si-HTF).

[Read more](#)



## CSPplus

TOPIC: 8. Advanced TES (Thermal Energy Storage)

Coordinator: University of Lleida

6 partners from:



Techno-economical evaluation of different thermal energy storage concepts for CSP plants (CSPplus)

The aim of **CSPplus** project is to develop a new tool capable of fully identify, develop, and compare new storage concepts in an easy manner, providing a reliable and cost-effective solution based on the specific conditions of each possible scenario.

[Read more](#)





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