

# SFERA-III

## Solar Facilities for the European Research Area – Third Phase

CSP Projects Joint Webinar  
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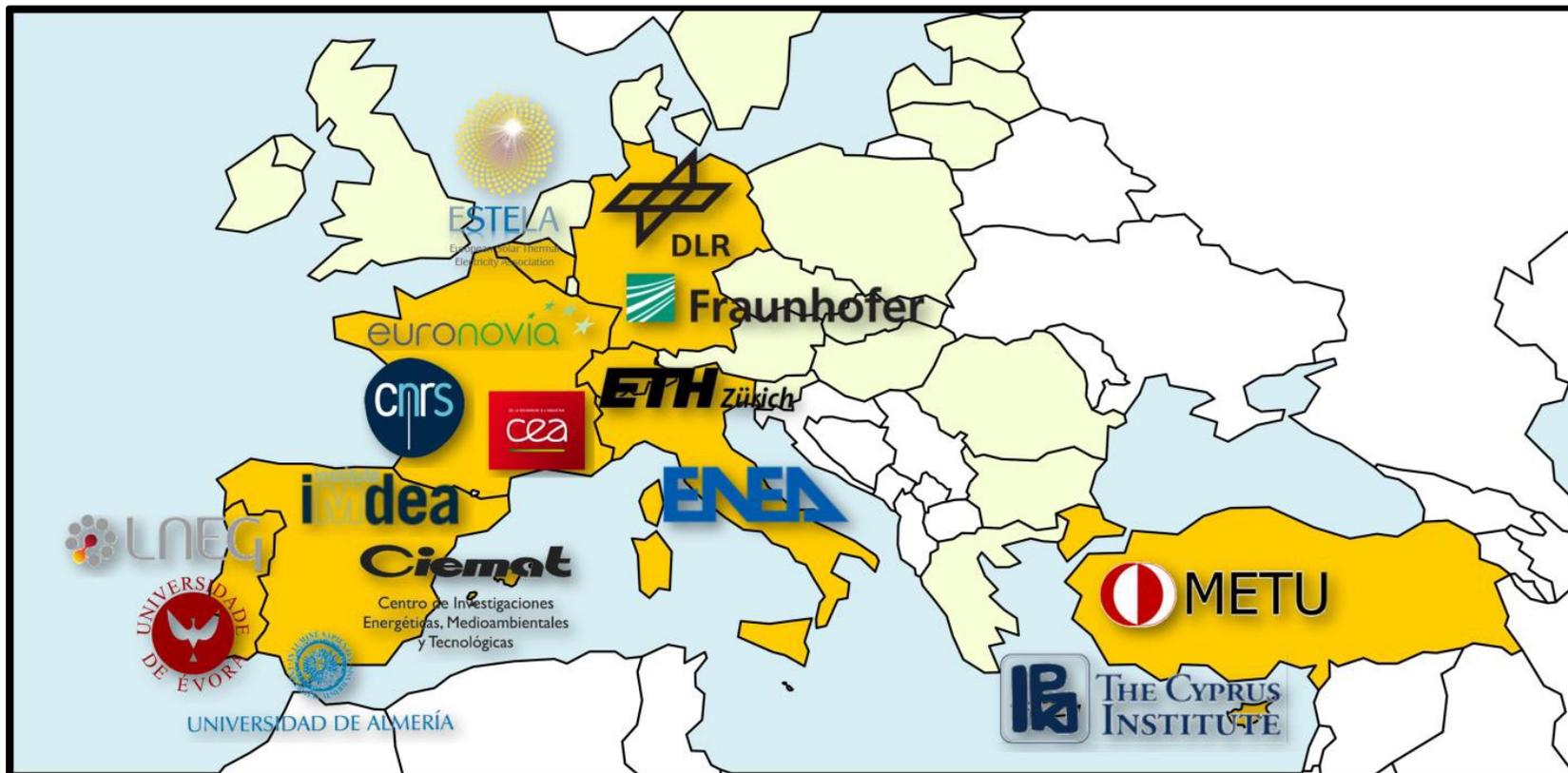
NETWORKING



THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO **823802**

# SFERA-III

## Solar Facilities for the European Research Area



**Start date**

1 January 2019

**End date**

31 December 2022

**Funded under**

H2020-EU.1.4.1.2.

**Overall budget**

€ 9 102 630,66

**EU contribution**

€ 9 102 630,66

**Coordinated by**

CENTRO DE INVESTIGACIONES ENERGÉTICAS,  
MEDIOAMBIENTALES Y TECNOLÓGICAS-CIEMAT

 Spain



### WHAT WE ARE COMMITTED TO:

Developing a coherent landscape of leading-edge RI in Europe

Promoting the opening of key RIs in solar concentrating systems for both academia and industries

Providing training for a new generation of researchers and engineers

Ensuring the EU's scientific leadership and industrial competitiveness



### WHAT WE ARE COMMITTED TO:

Ensuring the **optimal use and joint development of the RIs** avoiding duplication of the new services to be offered in the future

Supporting the **European Strategic Energy Technology Plan (SET-Plan)** through the implementation of the JRAs

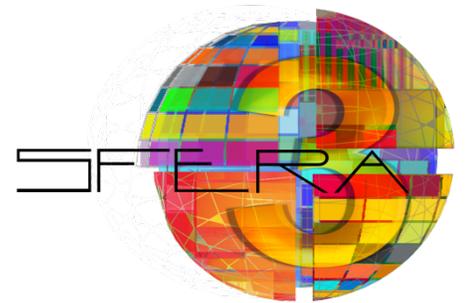


### WHAT WE ARE IMPLEMENTING:

Networking Activities

Transnational Access Activities

Joint Research Activities



### Networking Activities

- **Outreach and educational activities** for new European researchers
- Activities to accelerate the **transfer of knowledge** between the participants
- Activities for the **coordination of a more effective use of different funding sources** at national and European level
- Activities for the **effective management of the access** to the RIs

<https://sfera3.sollab.eu/networking-activities/>



### Networking Activities

- Activities to **enhance and strengthen the cooperation between the RIs**, the CST community (including the industry) and other stakeholders
- Activities to **broaden international cooperation**
- Activities to **fostering the use and deployment of global standards**
- Activities to **fostering the potential innovation of the RIs**

<https://sfera3.sollab.eu/networking-activities/>



### Transnational Access Activities

- 4 access campaigns to our RIs
- 9 partners participating for the very first time
- 13 European advanced solar laboratories
- A total of 15 RIs (**11 new RIs**)
- With a total of 47 installations (**31 new installations**)
- 452 weeks of access to the RIs
- 357 Users accessing the RIs

<https://sfera3.sollab.eu/access/>



### Joint Research Activities

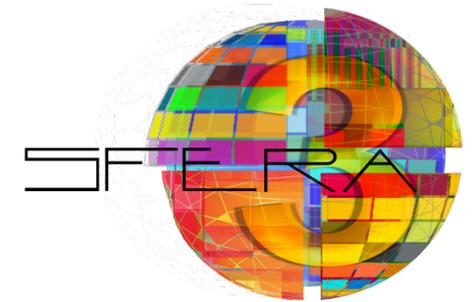
- Improvement of the services offered by the RIs
- Design of an e-Infrastructure for data, computing and networking
- Support of the definition of common standards and protocols
- Support the implementation of the SET-Plan
- Curation, preservation and provision of access to data collected or produced under the project

<https://sfera3.sollab.eu/joint-research-activities/>



### Joint Research Activities

- **JRA1** provides upgraded services to develop **more reliable storage systems**.
- **JRA2** provides an **increase in the efficiency** of both multiple-effect distillation (MED) and membrane distillation (MD) technologies and **improves the process reliability for water treatments and disinfection**.
- **JRA3** improves **testing procedures** for chemically active materials used in **solar thermochemical fuel production technologies**, as well as standard KPIs for assessing the performance of solar fuel production reactors.
- **JRA4** provides several new and upgraded services **to qualify solar receivers**, addressing both their inner mechanical and their optical thermoradiative properties degradation.
- **JRA5** addresses the **increase of accuracy in optical, thermal and mechanical measurement services**, allowing better optimization of components of the solar field and receiver.



THANK YOU FOR YOUR ATTENTION!

ANY QUESTIONS?

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