

# CSP ERA NET

## Newsletter July 2020



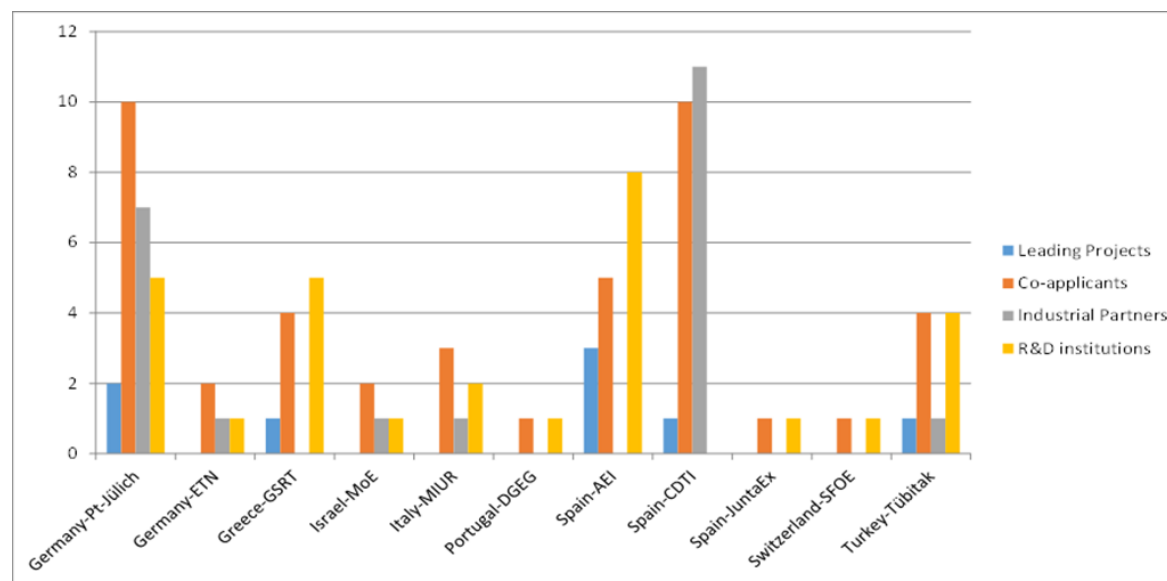
### Results of the pre proposal stage 1st Co-funded Joint Call: 8 pre proposals received

The objective of the call is to support transnational research and innovation projects that bring innovative concentrated solar power energy solutions closer to commercial deployment and encourage industrial participation to leverage public sector investment. The 8 pre-proposals received show the interest in accelerating csp energy across Europe and features technological and cross-cutting innovation themes.



**CSP ERA NET is an important step in funding demonstration and technology development through a Member State /EU cooperative budget. The CSP consortium is looking forward to the start of the projects and to accelerate the development of CSP energy in Europe and require industrial involvement in research, innovation and demonstration activities.**

The highest number of lead applicants comes from Spain-AEI with 3 pre-proposals. Second place goes to Germany-PtJ leading 2 pre-proposals. Thirdly, Greece, Spain-CDTI and Turkey leading in 1 pre-proposals each. The most frequent co-applicant comes from Germany-PtJ and Spain-CDTI with 10 pre-proposals each, Spain-AEI 5, Greece and Turkey with 4, Italy 3 applications, 2 applications for Germany-ETN, Israel and the rest of countries (Portugal, Switzerland and Spain-JuntaEx) with 1. The total value of all pre-proposals is more than €17,5 million, with a total funding requested of €12,3 million.



CSP aims to support transnational, collaborative innovation projects in csp energy with a special focus on the 8 topics described in the call guidelines. The 8 pre-proposals focused on 3 topics, namely:

Topics in the guidelines	n° of pre-proposals
2. Parabolic trough with molten salts	2
3. Parabolic trough with silicone oil	1
8. Advanced TES (Thermal Energy Storage)	5

The pre-proposals eligibility check and independent evaluation by international experts was conducted during March 2020 with the objective to invite applicants to the second stage and submitting full proposals by 19 June 2020. **After the evaluation, 6 proposals were recommended to be submitted as a full proposals with a total cost of 12,9M€, with a total of funding requested of 9,3M€.**

**ELECTRONIC SUBMISSION SYSTEM TO SUBMIT ONLINE FULL PROPOSALS APPLICATION** was closed on 19<sup>th</sup> June 2020. Currently, the evaluation process of the Joint Call is ongoing and in September 2020 funding recommendation and announcement of results to main applicants will be released.

[Read more](#)

## ESTELA SOLAR: FROM GREEN DEAL TO GREEN RECOVERY: A joint initiative of the EU solar industry

176 companies + R&I entities representing the whole value chain of [#CST](#) industry in [#EU](#) call on a recognition of the role of the [#CSP](#) [#STE](#) [#solar](#) [#thermal](#) on providing immediately available solutions to decarbonise energy systems.

Read joint initiative: <https://m.estela.solar/2ZJ4Msd>

### As well the EC Launched Online Consultation on Green Deal Call.

On 19 May 2020, the European Commission published a consultation open to the whole R&I community to help shaping the main features of a dedicated Green Deal Call under Horizon 2020.

Fighting climate change and making Europe climate-neutral by 2050 is one of the main priorities of the European Commission and endorsed by the European Council in December 2019. In support of this priority, the Commission is reinforcing Green Deal-related research and innovation with a dedicated call for proposals under Horizon 2020.

The Green Deal call will mobilise research and innovation to foster a just and sustainable societal transition. Projects are expected to deliver tangible and visible results relatively quickly and show how research and innovation can provide concrete solutions for the Green Deal main priorities. In addition to technological development and demonstration, the call encourages experimentation and social innovation for new ways to engage civil society and empower citizens.

The deadline for giving online feedback for the call was 3 June 2020

[Read more](#)



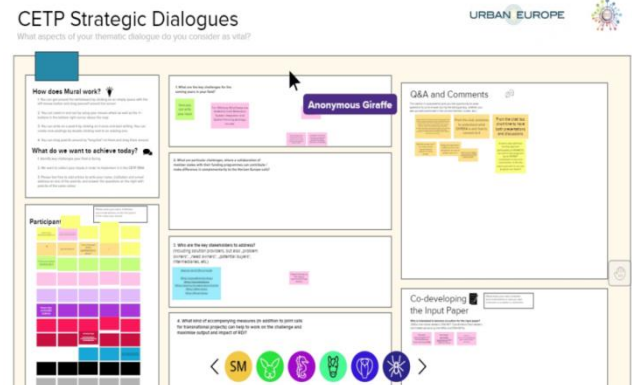
## Clean Energy Transition Partnership CETP under Horizon Europe: Strategic Dialogues For the Strategic Research and Innovation Agenda (SRIA)

CSP ERA NET (with AGENEX - Extremadura Energy Agency as a coordinator of the ERA NET) has participated on 29 May 2020 as a key partner in the Strategic Dialogues helping to identified challenges and existing activities in the cluster Renewable Technologies 1 (PV, CSP, Wind, Bioenergy and Ocean) for the future Clean Energy Transition Partnership- CETP- under Horizon Europe Framework Programme. The #CETP is expected to cover a broad range of SET-Plan topics.

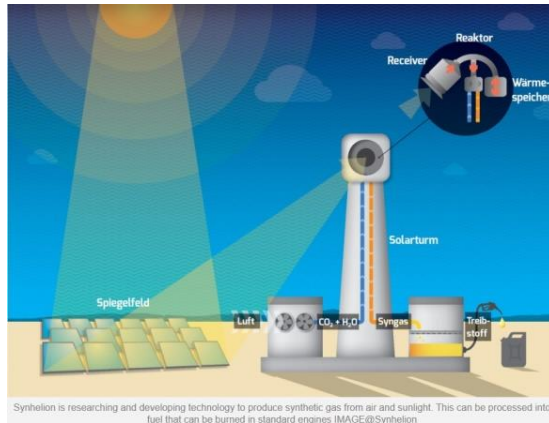
The CETP intends to build on the existing results and experiences of the already well coordinated SET-Plan IWGs (coordination of ETIPs, EERA-Joint Programmes and Member States) and ERA-NETs (coordination of national and regional R&I programmes).

### Aim of the Strategic Dialogues:

- ✓ Learn from SET-Plan IWGs and ERA-NETs about identified challenges and existing activities in the entire thematic cluster
- ✓ Open the door to integrate ERA-NET activities and partner programmes as well as experienced coordinators and task leaders in the future work of the CETP.
- ✓ Establish a dialogue between the CETP and the IWGs



## Switzerland's International Airport To Buy Synhelion's First Solar Fuel



Flughafen Zürich AG aims to cut its CO<sub>2</sub> emissions to zero net by 2050. The coronavirus has done nothing to change this plan. That is why the company has just entered into a partnership with the young high-tech enterprise Synhelion SA to support research and development work on synthetic fuels over the long term.

The goal is to make these fuels available in sufficient quantities at market prices. The synthetic fuels from Synhelion's test facility will be used by Flughafen Zürich AG directly at the airport.

As a signatory of the Paris Climate Agreement, Switzerland undertakes to halve its greenhouse gas emissions by 2030 compared with the 1990 level. Having almost met this goal already, Flughafen Zürich AG is setting even higher targets for itself. By 2050, CO<sub>2</sub> emissions for the entire airport infrastructure should be at zero.

In order to achieve this objective – in spite of the current difficult economic times due to the corona pandemic – the company has entered into a partnership with Synhelion.

### Flughafen Zürich AG To Buy Synhelion's First Total Annual Supply Of Solar Fuel

The recently signed declaration of intent is a commitment by Flughafen Zürich AG to buy from Synhelion at cost price the entire available annual volume of sustainable fuel produced in the test facility. During the test phase this will be considerably higher than the price of fossil fuel.

[Read more](#)

## How CSP Works: Tower, Trough, Fresnel Or Dish

All concentrating solar power (CSP) technologies use a mirror configuration to concentrate the sun's light energy onto a receiver and convert it into heat. The heat can then be used to create steam to drive a turbine to produce electrical power or used as industrial process heat.

Concentrating solar power plants can integrate thermal energy storage systems to use to generate electricity during cloudy periods or for hours after sunset or before sunrise. This ability to store solar energy makes concentrating solar power a flexible and dispatchable source of renewable energy.

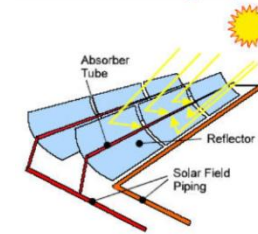
CSP systems can be also combined with combined cycle power plants resulting in hybrid power plants which provide high-value, dispatchable power.

They can also be integrated into existing thermal-fired power plants that use a power block like CSP; such as coal, natural gas, biofuel or geothermal plants.

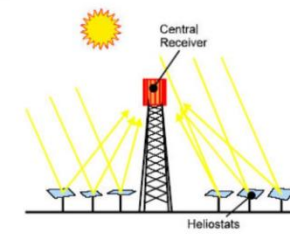
CSP plants can also use fossil fuel to supplement the solar output during periods of low solar radiation. In that case, a natural gas-fired heat or a gas steam boiler/re-heater is used.

There are four types of CSP technologies, with the earliest in use being trough, and the fastest growing as of 2017 being tower. For each of these, there are various design variations or different configurations, depending on whether thermal energy storage is included, and what methods are used to store solar thermally.

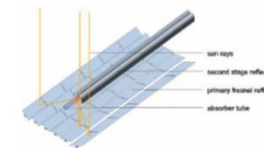
Parabolic Trough Systems:



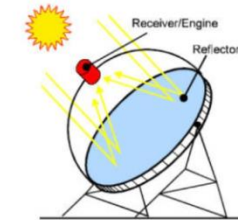
Power Tower Systems:



Linear Fresnel Systems:



Parabolic Dish Systems:



[Read more](#)

## Matchmaking Tool



<https://csp-eranet.eu/matchmaking/propose-project-idea>

## Contact us

-  <https://csp-eranet.eu>
-  [Communication and Dissemination Office  
eranet-csp@fecyt.es](mailto:eranet-csp@fecyt.es)
-  [twitter.com/EraCsp](https://twitter.com/EraCsp)
-  [www.linkedin.com/in/csp-era-net-67003418a](https://www.linkedin.com/in/csp-era-net-67003418a)

## PARTNERS



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



© CSP-ERANET 2020