

PROJECT TITLE

Concentrated Solar Power ERANET First Cofund Joint Call Fullproposal Template

TOPIC

1. Advanced linear Fresnel technology

SUBTOPIC

1.2. Develop plant engineering, for full operation control in clear skies and variable solar radiation days, start-up and shutdown operation, night time freezing protection, including drain-down gravity assisted strategies., 1.5. Optimization of the (modular) thermal storage, its integration and operational requirements in the system, in order to improve scalability and reduce freezing risks., 1.8. Development of a library for industrial needs and creation of a complete model in order to define process control.

PROJECT DURATION

36 Months (10 / 2019 to 09 / 2022)

TOTAL REQUESTED FUNDING

751.200 €

TOTAL COSTS

974.800 €

CONSORTIUM

P 1	Mrs. Partner1 First name Partner1 Family name Partner1 Organisation/Institution/Company Partner1 Department	Partner1 Street, no., Partner1 P.O. box (if applicable) , Partner1 Zip/postal code Partner1 Town/city Germany-Ptj	k.chakanga@fz-juelich.de Tel.: 0049 1234 Mobile: 0049 1234 Fax: 0049 1234 http://www.csp-eranet.eu
P 2	Prof. Partner2 First name Partner2 Family name Partner2 Organisation/Institution/Company Partner2 Department	Partner2 Street, no., Partner2 P.O. box , Partner2 Zip/postal code Partner2 Town/city Germany-Ptj	k.chakanga@fz-juelich.de Tel.: 0049 1234 Mobile: 0049 1234 Fax: 0049 1234 https://csp-eranet.eu/
P 3	Dr. Partner3 First name Partner3 Family name Partner3 Organisation/Institution/Company Partner3 Department	Partner3 Street, no., Partner3 P.O. box (if applicable) , Partner3 Zip/postal code Partner3 Town/city Israel	k.chakanga@fz-juelich.de Tel.: +4 1234 Mobile: +4 1234 Fax: +4 1234 http://www.csp-eranet.eu
P 4	Mrs. Partner4 First name Partner4 Family name Partner4 Organisation	Partner4 Street, Partner4 zip Partner4 Town Germany-Ptj	r.horbelt@fz-juelich.de Tel.: 0049 2461619874

PROJECT KEYWORDS

Supplementary keywords

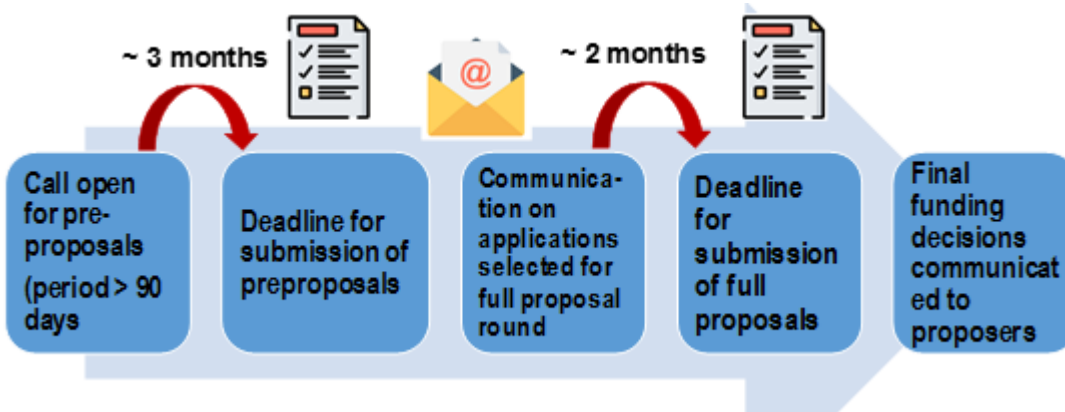
csp, eranet, cofund

A. PROJECT SUMMARY

Please enter a short summary of your project here.

You have the opportunity to upload up to 4 images in sections A to E. All pictures need to be uploaded in section "image upload". To insert them, you enter the place marker "[[figureX]]" into your text (where the image should appear). By replacing the X with the number of the image you create the link to the image.

For example (Figure 1) is uploaded under images exist and can therefore be referenced here with the command



Max file size: 600px x 600px, 2MByte Allowed formats are jpg, png or gif

This information is required for submission. Max. 2,000 characters

B. OBJECTIVES AND TARGETS

Scientific, technological and commercial objectives and challenge.

Give evidence relating to the scientific, technological and commercial objectives and challenges of the project, outlining:

- Overall aims and objectives of the projects,
- Key Performance Indicators (see SET-Plan and related Implementation for CSP / STE) and relevant targets to be achieved in the project.
- Scientific, technical and commercial challenges

This information is required for submission.

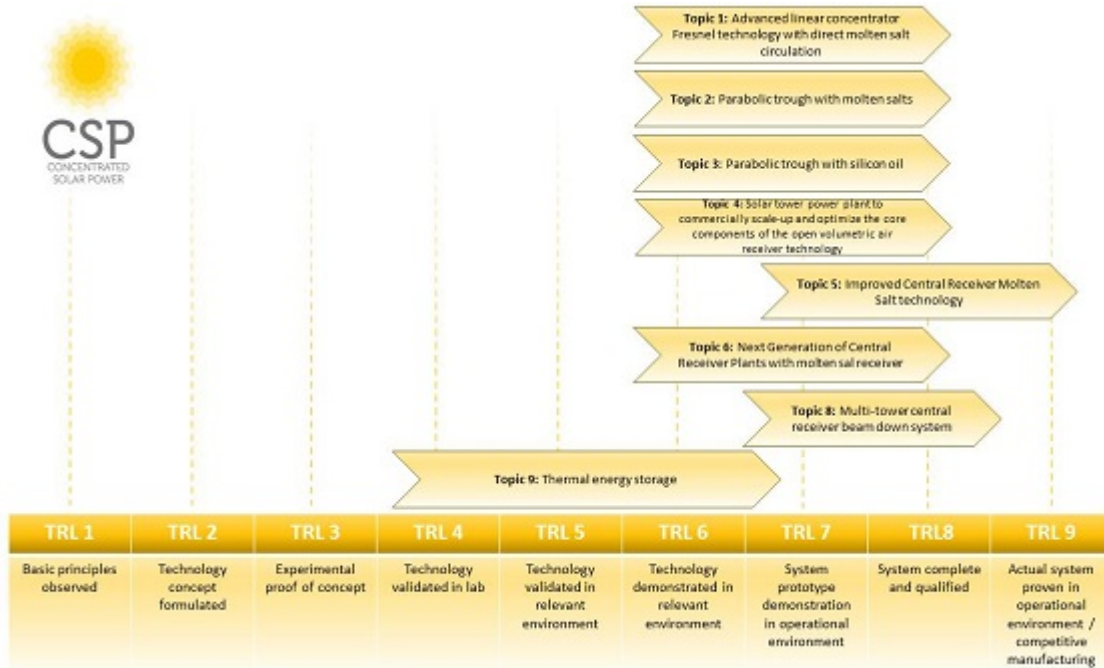
You have a maximum of 5,000 characters.

C. EXPECTED RESULTS

Innovation or innovation potential, economic and environmental benefit, commercialization, major advantages / progress versus state of the art thanks to the project proposed, progress with respect to Technology Readiness Level (TRL) from start to end of project (according

Horizon2020 terms), contribution to achieving the objectives of the SET-Plan.

The expected results can also be referenced by an image as shown in Figure 2:



This information is required for submission. You have a maximum of 3,000 characters

D. TECHNOLOGY READINESS LEVEL (TRL)

Give the TRL at the

- a) TRL at the beginning of the project
- b) TRL at the end of the project

TRL 1 - basic principles observed

TRL 2 - technology concept formulated

TRL 3 - experimental proof of concept

TRL 4 - technology validated in lab

TRL 5 - technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 6 - technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 7 - system prototype demonstration in operational environment

TRL 8 - system complete and qualified

TRL 9 - actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

You have a maximum of 1,000 characters

E. DESCRIPTION OF PARTNERS

Give a short description of all partners involved and their role in the project:

Founding year

Number of employees

Turnover in million Euros (MEUR) p.a.

Qualification related to the project

Role in the Project

Additional information (optional)

This information is required for submission. You have an overall maximum of 5,000 characters.

F. OUTLINE OF WORK PLAN

Please outline the following:

- Project structure
- Role of each partner
- Relevant expertise, resources, manpower
- Monitoring and management of the project

The individual work package description with milestones and deliverables is requested in the section "Work packages". Your data from the preproposal are transferred to section G. Work Packages.

This information is required for submission. In Addition you have the possibility to upload tables in the section "Document upload"

You have a maximum of 5,000 characters.

G. WORK PACKAGE

Table of Work Packages + Tasks

WP	Task	Start Month	End Month	WP / Task Title
1		1	15	Title of the first work package
	1.1	1	6	Title of the first task
	1.2	6	15	Title of the second task

WP/Task No.	WP Objectives + Description / Task Description	Partner (strong = Teamleader)	Person Month(s) (strong = Teamleader)
WP1	<p>Objectives:</p> <p>Please give your main objectives for this work package in max. 1,000 characters.</p> <p>Description:</p> <p>Describe your main objectives for this work package in max. 1,000 characters</p>	P1, P2, P3, P4	19, 18, 3, 14
T1.1	<p>Description:</p> <p>Please describe task number 1.</p> <p>In the following section, please give (1) the start and end project month, (2) person months per partner, involved in this project and state the project leader. Please note, that the person months can only be given in whole number (i.e. without decimals).</p> <p>You have a maximum of 1,500 characters.</p>	P1, P2 , P3, P4	9, 13 , 3, 13
T1.2	<p>Description:</p>	P1 , P2, P4	10 , 5, 1

Table of Milestones

Milestone No. Month Milestone Title + Description

M1.1	8	Title: Milestone title Description: Please describe the milestones for each work package. You have a maximum of 1,000 characters. In the following section, please give the project month number, when the milestone will be reached.
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Table of Deliverables

Deliverable No. Month Deliverable Title + Description

D1.1	5	Title: Deliverable title Description: Please give a short description of the deliverables for the work packages. You have a maximum of 1,000 characters for each deliverable. In the following section, please state the project month, when the deliverables should be met.
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GANTT CHART

Name	Months	Duration	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
G. Work package 1	Months 01 - 15	15 Months															
Task 1.1	Months 01 - 06	6 Months															
Task 1.2	Months 06 - 15	10 Months															
Milestone 1.1	Month 08	1 Month															
Deliverable 1.1	Month 05	1 Month															

H. TRANSNATIONAL AND ADDED VALUE (TAV)

Clear definition and value for both each national / regional subproject and added value through transnational cooperation for the whole project.

This information is required for submission.

You have a maximum of 3,000 characters.

I. IMPACT OF PROJECT

The expected impact of the project on the different levels such as

- Expected contribution to the reduction in the cost of CSP power, life-cycle environmental impact and other relevant Key Performance Indicators
- Expected impact on Work Programme (SC3-JA-1) objectives
- Expected ability of the project to enhance innovation capacity and integration of new knowledge in the European solar power industry
- Future market deployment potential of the proposed innovation
- Project's ability to strengthen the competitiveness and growth of European companies by developing innovations that meet the needs of European and global solar power markets and, where relevant, deliver these innovations to the market;

You have a maximum of 10,000 characters.

J. RISKS AND MITIGATION MEASURES

Risks and mitigation measures

You have a maximum of 2,000 characters.

K. SIMILAR PROPOSALS IN OTHER FUNDING SCHEMES

Please outline whether the full project, or parts of it, have been submitted to other funding schemes as a full proposal. If so, state the funding scheme and what the outcome was.

This information is required for submission.

You have a maximum of 1,500 characters.

L. STATUS OF CONSORTIUM AGREEMENT

Please give a brief comment to the actual state of the consortium agreement. Include whether the consortium agreement is at the initial or final draft stage or in the process of being signed. Give an indication as to the expected date of agreement signature.

This information is required for submission.

You have a maximum of 1,000 characters.

M. ADDITIONAL INFORMATION

This information is not transferred from the preproposal. Please check and update the consortium details given in the preproposal (foundation year, number of employees, turnover in million Euros (MEUR) p.a.) and insert them here.

Further additional information relating to the project can be added here.

Addition information such as technical drawings, diagrams, charts etc. can be uploaded in the respective fields "Image Upload" and "Citations upload"

You have a maximum of 5,000 characters.

PROJECT FINANCES

Requested funding

Organisation name	Personnel	Travel	Consumables / Equipment	Subcontracts	Other	Requested Funding	Total Own Contribution	Total Costs
Partner1 Organisation/Institution/Company	120000	5000	40000	0	10000	187000	0	187000
Overhead	12000	0	0	0	0			
Partner2 Organisation/Institution/Company	200000	7500	11000	15000	0	233500	223600	457100
Overhead	0	0	0	0	0			
Partner3 Organisation/Institution/Company	130000	3000	5200	0	0	138200	0	138200
Overhead	0	0	0	0	0			
Partner4 Organisation	175000	2000	3300	0	12200	192500	0	192500
Overhead	0	0	0	0	0			
TOTAL	637000	17500	59500	15000	22200	751200	223600	974800

Own contribution

Organisation name	Personnel	Travel	Consumables / Equipment	Subcontracts	Other	Total Own Contribution
Partner1 Organisation/Institution/Company	0	0	0	0	0	0
Partner2 Organisation/Institution/Company	200000	7500	1100	15000	0	223600
Partner3 Organisation/Institution/Company	0	0	0	0	0	0
Partner4 Organisation	0	0	0	0	0	0
TOTAL	200000	7500	1100	15000	0	223600

PROJECT FINANCE COMMENTS

Partner 1 (Consortium Coordinator): Partner1
Organisation/Institution/Company

FINANCE COMMENTS

Personnel	For all Finance Comments: Brief Description (max. 1,000 characters). Put number of person-months and average monthly salary (incl. social expenses) in "Description". Overhead: To be specified according to the national / regional rules (some do not ask for separate overhead costs as they are part of personnel costs). Further information can be found in the Guidelines for Proposers under "Annex – National and Regional Requirements" and / or obtained from the respective contact Points.
Travel	Travel & subsistence costs according to national / regional rules.
Consumables / Equipment	Describe the equipment needed specifically for the project and the materials to be procured specifically for the project. Example equipment: measurement device xy, required for doing special analysis, overall costs of 80.000 €.
Subcontracts	Describe the sub-contract for the task that cannot be carried out by the project consortium and its particular relevance for the project.
Other	E.g. conference fees for dissemination activities specifically related to the project.

REGISTRATION/VAT PIC NUMBER ACCORDING TO NATIONAL/REGIONAL REQUIREMENTS.

Registration/VAT

ADDITIONAL FIELDS

Confirm that the information given in this proposal is correct.	no
Confirm that the proposal is endorsed by all project partners.	no
Confirm that all partners have contacted and appropriately informed their funding agencies on the project.	no
Additional Text	

Partner 2: Partner2 Organisation/Institution/Company

FINANCE COMMENTS

Personnel	See comments under information of coordinator
Travel	See comments under information of coordinator
Consumables / Equipment	See comments under information of coordinator
Subcontracts	See comments under information of coordinator
Other	See comments under information of coordinator

REGISTRATION/VAT PIC NUMBER ACCORDING TO NATIONAL/REGIONAL REQUIREMENTS.

Registration/VAT

ADDITIONAL FIELDS

Additional Text	
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Partner 3: Partner3 Organisation/Institution/Company

FINANCE COMMENTS

Personnel	See comments under information of coordinator
Travel	See comments under information of coordinator
Consumables / Equipment	See comments under information of coordinator
Subcontracts	See comments under information of coordinator
Other	See comments under information of coordinator

REGISTRATION/VAT PIC NUMBER ACCORDING TO NATIONAL/REGIONAL REQUIREMENTS.

Registration/VAT

ADDITIONAL FIELDS

Additional Text	
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Partner 4: Partner4 Organisation

FINANCE COMMENTS

Personnel	See comments under information of coordinator
Travel	See comments under information of coordinator
Consumables / Equipment	See comments under information of coordinator
Subcontracts	See comments under information of coordinator
Other	See comments under information of coordinator

REGISTRATION/VAT PIC NUMBER ACCORDING TO NATIONAL/REGIONAL REQUIREMENTS.

ADDITIONAL FIELDS

Additional Text	
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