PROJECT TITLE

SOLAR-ERA.NET Cofund 2 Joint Call 2021_PREPROPOSAL TEMPLATE (call 8)

TOPIC

A – Advanced industrial PV technologies

SUBTOPIC

A1. Passivated emitter and rear cell (PERC), heterojunction (HJT) technologies and advanced passivating concepts for crystalline silicon solar cells, A9. Industry 4.0 ("smart factory") approaches to advanced PV manufacturing

PROJECT DURATION	TOTAL REQUESTED FUNDING	TOTAL COSTS
36 Months (09 / 2022 to 08 / 2025)	601002 €	1431002 €

CONSORTIUM

P 1	Dr. Mrs Partner1 First name Partner1 Family name Partner1 Organisation/Institution/Company Partner1 Department	Partner1 Street, no., Partner1 P.O. box, Partner1 Zip/postal code Partner1 Town/city Austria	ptj-solar-eranet@fz-juelich.de Tel.: 0043 1234 Mobile: 0043 1234 Fax: 0043 1234
P 2	Mr. 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 Turkey	ptj-solar-eranet@fz-juelich.de Tel.: 0043 1234 Mobile: 0043 1234 Fax: 0043 1234

CONSORTIUM (ASSOCIATED)

P 3	Prof. Partner3 Associated First name Partner3 Associated Family name Partner3 Organisation/Institution/Company Partner3 Department	Partner3 Street, no., Partner3 P.O. box, Partner3 Zip/postal code Partner3 Town/city UK	ptj-solar-eranet@fz-juelich.de Tel.: 0043 1234 Mobile: 0043 1234 Fax: 0043 1234

KEYWORDS

Supplementary keywords	Solar, ERANET, Call8

A. PROJECT SUMMARY

Please enter a short summary of your project here.
You have the opportunity to upload up to 5 images in sections A to J. 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. 2000 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:
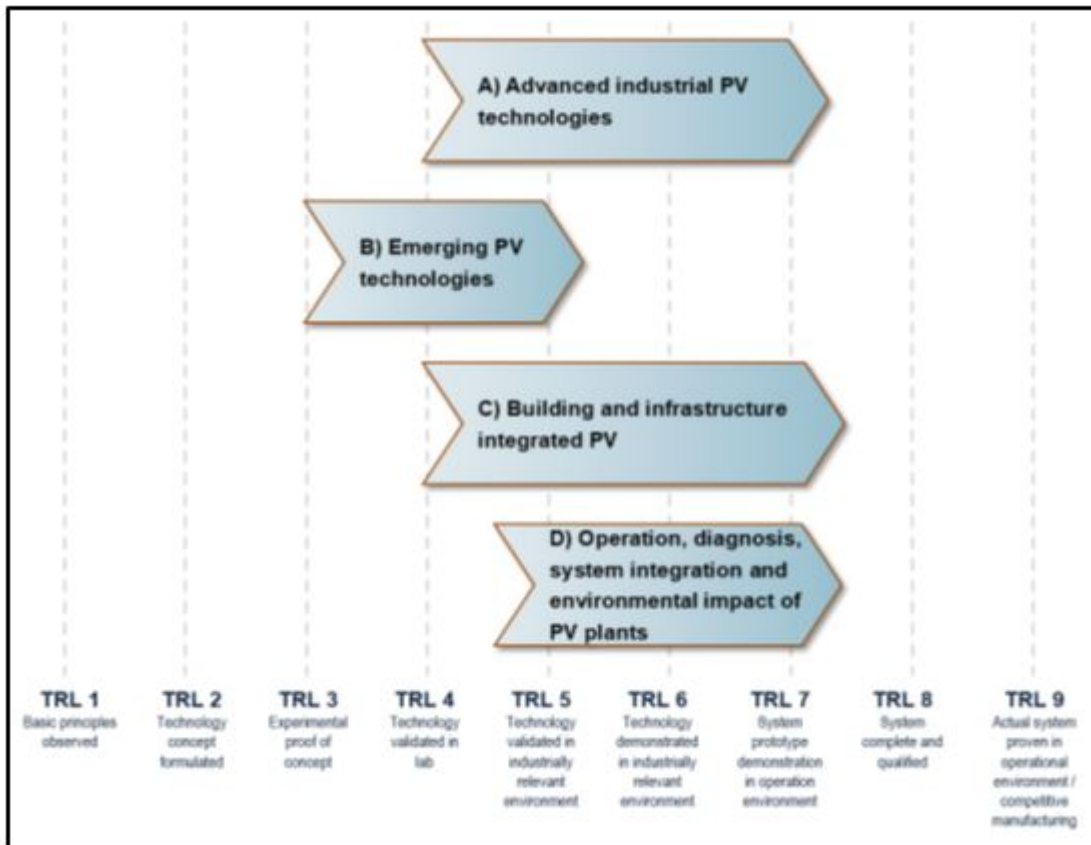• Overall aims and objectives of the projects,
• Key Performance Indicators (see SET-Plan and related Implementation for PV) and relevant targets to be achieved in the project.
• Scientific, technical and commercial challenges

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 10.000 characters.

D. TECHNOLOGY READINESS LEVEL (TRL)

Give the TRL at the beginning and at the end of the project.

Max. 100 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 WORKPLAN

Please elaborate the work plan of the project, for example:

The project is structured into 6 work packages (WP) and coordinated in WP1. First, the individual processes for passivating (WP2), metallization (WP3) and active light absorption layers (WP4) are to be developed and then integrated into a solar cell process (WP5). Finally, the optimized solar cell process is to be integrated into module production (WP6).

This information is required for submission. You have an overall maximum of 5.000 characters.

G. TRANSNATIONAL AND ADDED VALUE

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.

H. IMPACT OF PROJECT

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

- Expected contribution to the reduction in the cost of Solar power, life-cycle environmental impact and other relevant Key Performance Indicators
- 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;

This information is required for submission. You have an overall maximum of 10.000 characters.

I. RISKS AND MITIGATION MEASURES

Qualitative risk register (including scientific/technology, management and commercial risks). Please outline for your project most relevantrisks, their probability and severity, and preventive measures.

This information is required for submission. You have a maximum of 2000 characters.

J. SIMILAR PROPOSALS IN OTHER FUNDING SCHEMES

Please indicate if similar proposals have been admitted/funded in other schemes.
Please elaborate on the similirities and differences between the projects.

Max. 1500 characters.

FINANCES

Requested funding

Organisation name	Personnel	Travel	Consumables / Equipment	Subcontracts	Other	Requested Funding	Total Own Contribution	Total Costs
Partner1 Organisation/Institution/Company	2	6000	120000	20000	5000	161002	350000	511002
Overhead	10000	0	0	0	0			
Partner2 Organisation/Institution/Company	300000	5000	100000	0	25000	440000	430000	870000
Overhead	10000	0	0	0	0			
Partner3 Organisation/Institution/Company	0	0	0	0	0	0	50000	50000
Overhead	0	0	0	0	0			
TOTAL	320002	11000	220000	20000	30000	601002	830000	1431002

Own contribution

Organisation name	Personnel	Travel	Consumables / Equipment	Subcontracts	Other	Total Own Contribution
Partner1 Organisation/Institution/Company	200000	5000	120000	20000	5000	350000
Partner2 Organisation/Institution/Company	300000	5000	100000	0	25000	430000
Partner3 Organisation/Institution/Company	0	0	0	0	50000	50000
TOTAL	500000	10000	220000	20000	80000	830000

PARTNER DATA

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

FINANCE COMMENTS

Personnel	For all Finance Comments: Brief Description (max. 1000 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. max. 1000 characters.
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 €. max. 1000 characters
Subcontracts	Describe the sub-contract for the task that cannot be carried out by the project consortium and its particular relevance for the project. Max. 1000 characters.
Other	E.g. conference fees for dissemination activities specifically related to the project. Max. 1000 characters

ADDITIONAL INFORMATION

ADDITIONAL FIELDS

Registration/VAT7 PIC number	Registration/VAT
Confirm that the information given in this proposal is correct.	yes
Confirm that the proposal is endorsed by all project partners.	yes
Confirm that all partners have contacted and appropriately informed their funding agencies on the project.	yes

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

ADDITIONAL INFORMATION

ADDITIONAL FIELDS

Registration/VAT7 PIC number	Registration/VAT
Confirm that the information given in this proposal is correct.	yes

Partner 3: Partner3 Organisation/Institution/Company

FINANCE COMMENTS

Personnel	
Travel	
Consumables / Equipment	
Subcontracts	
Other	The associated partner has a own contribution of 50.000 EUR.

ADDITIONAL INFORMATION

Partner 3 will participate as an associated partner. He will provide PV Modules for experiments.

ADDITIONAL FIELDS

Registration/VAT7 PIC number	
Confirm that the information given in this proposal is correct.	yes