SOLAR-ERA.NET Cofund 2 (Solar Cofund 2) Additional Joint Call

Guidelines for Proposers

Version 2019_11_04

Contents

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1. Introduction

The SOLAR-ERA.NET Cofund 2 Additional Joint Call is carried out by national / regional research and technology development (RTD) and innovation programmes and national / regional funding agencies in the field of solar electricity generation, i.e. photovoltaics (PV) and concentrating solar power (CSP) / solar thermal electricity (STE). The Joint Call is commonly carried out by the following countries and regions: Austria, Belgium-Flanders, Cyprus, Germany and North-Rhine-Westphalia, Greece, Israel, The Netherlands, Spain, Sweden, Switzerland and Turkey.

The total budget provided by national and regional funding agencies is around 9 million euros. The specific funding budgets provided by the funding agencies are listed in the Annex “National and Regional Requirements”.

Important dates:

- Official opening of the Call: 7 October 2019
- Deadline for submitting preproposals: 29 January 2020, 16:00 CET
- Full proposal round: from 17 March to 25 May 2020
- Feedback on funding decisions by end-June 2020 and project starts from October 2020 on

2. Participating States, Organisations and Programmes

The participating national SOLAR-ERA.NET partners / contact points are listed in Table 1. **Applicants are strongly encouraged to check the project idea and specific requirements with the national / regional contact point as early as possible in the preproposal phase.**

Figure 1: Organisations involved in promoting the SOLAR-ERA.NET Cofund 2 Additional Joint Call and providing support and funding to innovative transnational projects.

Table 1: National / Regional Contact Points in SOLAR-ERA.NET Cofund 2 Additional Joint Call		
Area	Funding Organisation	Contact(s)
Austria	Austrian Research Promotion Agency (FFG)	Anita Hipfinger: anita.hipfinger (at) ffg.at, +43 5 7755 5025
Belgium-Flanders	Vlaams Agentschap Innoveren en Ondernemen	Geert Carchon: geert.carchon (at) vlaio.be, +32 2 432 42 94 Bart De Caesemaeker: bart.decaesemaeker (at) vlaio.be, +32 2 432 42 49
Cyprus	Research & Innovation Foundation (RIF)	Pavlos Leptos: pleptos (at) research.org.cy, +357 22 205051
Germany	Projektträger Jülich (PtJ)	Division Energy System: Renewable Energies/Power Plant Technology, Subdivision Photovoltaics (ESE 1) Renate Horbelt: r.horbelt (at) fz-juelich.de, +49 2461 61 9874 Kambulakwao Chakanga: k.chakanga (at) fz-juelich.de, +49 2461 61 9871
Germany-NRW	Projektträger ETN	Fachbereich Energie Dr. Melanie Schulte: me.schulte (at) fz-juelich.de, +49 2461 690 504 Dr. Joachim Kutscher: jo.kutscher (at) fz-juelich.de, +49 2461 690 604
Greece	General Secretariat for Research and Technology (GSRT)	Paraskevi Afentaki International S&T Cooperation Directorate Bilateral and Multilateral Cooperation Section +30 213 13 00 112, pafe (at) gsrt.gr Information can also be provided by Dr. Anna Rosenberg International S&T Cooperation Directorate Bilateral and Multilateral Cooperation Section +30 213 13 00 095, a.rosenberg (at) gsrt.gr
Israel	Ministry of Energy	Gideon Friedmann, Head of R&D Division - Office of the Chief Scientist, +972-2-5316020 (Office), +972-2-5316017 (Fax), +972-58-5337565 (Mobile), gideonf (at) energy.gov.il
Netherlands	RVO	Otto Bernsen, otto.bernsen (at) rvo.nl Wijnand van Hooff, wijnand (at) tki-urbanenergy.nl
Spain-CDTI	Centre for the Development of Industrial Technology (CDTI)	Héctor González: hector.gonzalez (at) cdti.es, +34 91 581 04 89
Spain-AEI	Agencia Estatal de Investigación (AEI)	Alberto Abánades (scientific issues) Daniel Ruiz (administrative and technical issues) +34 91 603 79 68 era-energia (at) aei.gob.es
Sweden	Swedish Energy Agency (SWEA)	Pierre-Jean Rigole: pierre-jean.rigole (at) swedishenergyagency.se, +46 16 544 21 91 Tobias Walla: tobias.walla (at) swedishenergyagency.se, +46 16 544 20 54
Switzerland	i) Swiss Federal Office of Energy (SFOE)	Stefan Oberholzer (for PV and CSP topics): stefan.oberholzer (at) bfe.admin.ch, +41 58 465 89 20
Turkey	Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TÜBİTAK)	Kaan Karaöz: kaan.karaoz (at) tubitak.gov.tr, +90 312 2989466 (TEYDEB) Salih Hacıalioğlu: salih.hacialioglu (at) tubitak.gov.tr, +90 312 2981242 (ARDEB)

3. Scope and Topics of the SOLAR-ERA.NET Cofund 2 Additional Joint Call

SOLAR-ERA.NET Cofund 2 Additional Joint Call topics are based on priorities identified in the Strategic Energy Technology (SET) Plan resp. in the subsequent Implementation Plans for PV and CSP that are available on the solar-era.net website and on SETIS:
PV: https://setis.ec.europa.eu/system/files/set_plan_pv_implmentation_plan.pdf
CSP: https://setis.ec.europa.eu/system/files/set_plan_-_csp_initiative_implementation_plan.pdf
They include strategic targets that shall serve as reference for this call and proposals to be submitted.
Strategic targets of the Implementation Plans for PV and CSP are as follows:

For PV:
The overarching goals are to re-build European technological leadership in the sector by pursuing high-performance PV technologies and their integration in the European energy system and to bring down the levelized cost of electricity from PV rapidly and in a sustainable manner to allow competition in electricity markets all over Europe. This will be achieved by:

1. Major advances in efficiency of established technologies (Crystalline Silicon and Thin Films- c-Si and TFs) and new concepts:
• Increase PV module efficiency by at least 20% by 2020 compared to 2015 levels;
• Increase PV module efficiency by at least 35% by 2030 compared to 2015 levels, including the introduction of novel PV technologies;

2. Reduction of the cost of key technologies:
• Reduce turn-key system costs by at least 20% by 2020 compared to 2015;
• Reduce turn-key system costs by at least 50% by 2030 compared to 2015 with the introduction of novel, potentially very-high-efficiency PV technologies manufactured at large scale;

3. Further enhancement of lifetime, quality and sustainability:
• Maintain proven system energy output per year at least 80% of initial level for 30 years by 2020 and 35 years by 2025;
• Minimise life-cycle environmental impact along the whole value chain of PV electricity generation (e.g. heavy-metal and hazardous substances free concepts), increase recyclability of module components (in particular of modules);

4. Enabling mass realisation of "(near) Zero Energy Buildings" (NZEB) by Building-Integrated PV (BIPV) through the establishment of structural collaborative innovation efforts between the PV sector and key sectors from the building industry:
• Develop BIPV elements, which at least include thermal insulation and water protection, to entirely replace roofs or facades and reduce their additional cost by 50% by 2020, and by 75% by 2030 compared to 2015 levels, including flexibility in the production process;
• Recognise the importance of aesthetics in the activities of the implementation of NZEB;

5. Major advances in manufacturing and installation:
• Make available GW-scale manufacturing technologies that reach productivity and cost targets consistent with the capital cost targets for PV systems;
• Develop PV module and system design concepts that enable fast and highly automated installation, to reduce the installation costs of both ground-mounted arrays and PV building renovation solutions, by 2020.

For CSP:
1. Short-term: > 40% cost reduction by 2020 (from 2013) translating into
• Supply price < 10 c€/kWh for a radiation of 2050 kWh/m^2/year (conditions in Southern Europe)
2. Longer-term: develop the next generation of CSP/STE technology
• New cycles (including supercritical ones) with a first demonstrator by 2020, with the aim to achieve additional cost reductions and opening new business opportunities.

2020 targets above-mentioned are to be adapted accordingly to the transnational projects' end year (i.e. 2023).

The strategic targets are translated into a set of topics for the SOLAR-ERA.NET Cofund 2 Additional Joint Call and are based on the Implementation Plans developed by the Temporary Working Groups for PV resp. CSP and published end of 2017 (available on the solar-era.net website)

The SOLAR-ERA.NET Cofund 2 Additional Joint Call comprises five topics:
A) Advanced industrial PV technologies
B) Emerging PV technologies
C) Building and infrastructure integrated PV
D) Operation, diagnosis and system integration of PV plants
E) CSP low cost and next generation technologies

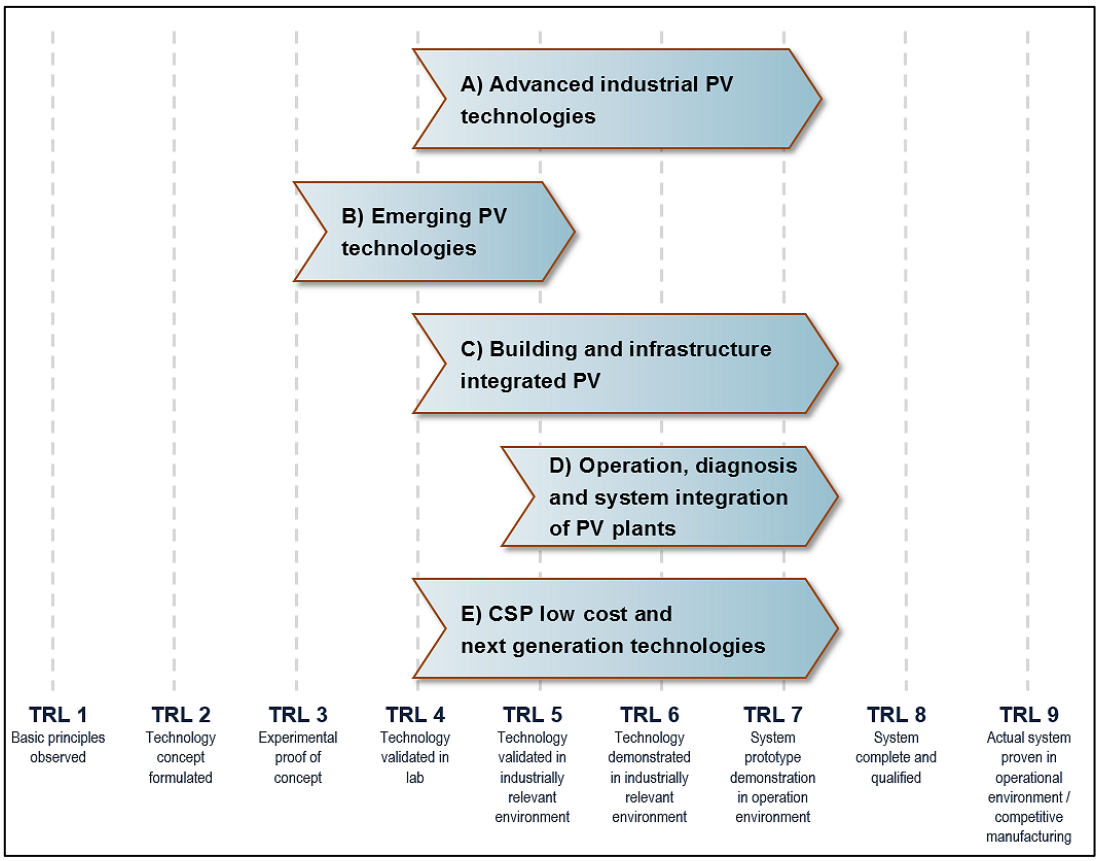

Figure 2: The topics of the SOLAR-ERA.NET Cofund 2 Additional Joint Call

Topic A – Advanced industrial PV technologies

Scope: Proposals aim at developing and implementing from advanced laboratory technologies to high-throughput industrial manufacturing processes, materials and equipment. Areas addressed should therefore contribute to the further development of advanced industrial PV technologies.

Envisaged time to market for technologies supported: 2 - 4 years

Areas / subtopics:
A1. Passivated emitter and rear cell (PERC), heterojunction (HJT) technologies and advanced passivating concepts for crystalline silicon solar cells
A2. High-performance silicon-based cells (>24%) and modules
A3. Advanced thin film technologies, in particular copper indium gallium diselenide (CIGS)
A4. Advanced and new interlayers, metallization, transparent conductive oxides, etc.
A5. Manufacturing issues and next generation processing equipment for advanced solar cells
A6. Cell interconnection methods and equipment
A7. PV module encapsulation technologies and equipment
A8. New inline characterization methods and tools
A9. Industry 4.0 (“smart factory”) approaches to advanced PV manufacturing

TRL: 4 to 7

Topic B – Emerging PV technologies

Scope: Proposals aim at raising emerging solar cell technologies with high efficiency / low cost potential to the industrial scale and beyond.

Envisaged time to market for technologies supported: 3 - 5 years

Areas / subtopics:
B1. Silicon-based tandem technologies, namely with perovskites and III/V semiconductors
B2. Thin film tandem and multiple junction technologies
B3. Perovskite solar cells
B4. Organic solar cells
B5. Dye-sensitized solar cell (DSC)
B6. Concentrator photovoltaic (CPV) and high concentration photovoltaics (HCPV)
B7. Ultra-high efficiency concepts

TRL: 3 to 5

Topic C – Building and infrastructure integrated PV

Scope: Proposals aim at developing a market pull approach for innovative and integrated PV solutions that will allow a faster and broader market uptake of new PV technologies and more intensive and multi-functional use of the available surface on buildings and urban infrastructure both for new constructions and renovations, while enhancing quality, reliability and lifetime of the products and reducing costs.

Envisaged time to market for technologies supported: 2 - 4 years

Areas / subtopics:
C1. Innovative BIPV module technologies, e.g. lamination, colours, shapes, reflectivity, bifacial, etc.
C2. Customized industrial processes for BIPV solutions
C3. New concepts and solutions for building and urban infrastructure integrated PV
C4. Advanced integration of PV into standard building components and systems
C5. PV as part of advanced highly energy efficient building concepts

TRL: 4 to 7

Topic D – Operation, diagnosis and system integration of PV plants

Scope: Proposals aim at developing and demonstrating technical solutions, business processes and business models that can support high plant performance, availability and income at reasonable costs for advanced monitoring, operations and maintenance (O&M) over the expected lifetime of the PV plant. The combination of localised PV electricity, storage or local supply and demand management provides the possibility to develop ancillary services and control systems for grid-feeding, self-consumption or local storage and standardisation of the interoperability of such ancillary services and control systems.

Envisaged time to market for technologies supported: 2 - 4 years

Areas / subtopics:
D1. Advanced and automated functions for data analysis, fault detection, diagnosis, maintenance planning and/or reporting
D2. Interoperability, standardization and auto-configuration of sensors, data acquisition, inverters and communication systems within PV plants and between PV plants and central monitoring systems (Industry 4.0 / Internet of Things)
D3. System integration through ancillary services, e.g. solutions for a combination of load management / self-consumption, power management of the distributed PV generators and storage systems and dispatchable flexible capacities, which altogether assure a stable grid in spite of fluctuations of demand and generation.

TRL: 5 to 7

Topic E – CSP low cost and next generation technologies

Scope: Proposals aim at short term cost reductions or developing next generation technology. The topic applies to all CSP technologies including CSP-Stirling.

Envisaged time to market for technologies supported: 2 - 4 years

Areas / subtopics:
E1. Development of innovative Heat Transfer Fluids (HTF) and systems to increase operating temperatures, lower water consumption, environmental acceptance, and increase solar field efficiencies
E2. Improved solar collector/heliostat and support structure to reduce the structural costs
E3. Improved selective coatings for receivers (absorber tubes and central receivers)
E4. Development of innovative short-term and long-term thermal storage
E5. Development of thermal cycles and BOP for solar and non-solar hybridisation and integration concepts
E6. Development of techniques to reduce O&M costs: control and operation
E7. Development of measuring and test methods for recording the quality of components and subsystems

TRL: 4 to 7

IMPORTANT: Not all programmes / funding agencies will accept applications in all topics (see Table 2 and in the Annex “National / Regional Requirements”) and for all Technology Readiness Levels (TRL’s), and some will prioritise some topics over others. Lower TRL research activities necessary to support demonstration and validation activities might be potentially in scope for SOLAR-ERA.NET Cofund 2 funding, where they are a minor but integral part of wider projects which progress a technology though to TRL’s of this topic.

Applicants are strongly encouraged to follow the instructions specified in the annexes in these Guidelines and related documents and websites on the national / regional level as well as to check with their national / regional contact points whether the project idea fits within the national / regional constraints.

Eligible topics and areas / subtopics are shown in Table 2 for each funding organisation participating in the SOLAR-ERA.NET Cofund 2 Additional Joint Call. Further information can be found in the Annex with specific national and regional requirements (accepted TRL’s, type of organisations and RDI supported, etc.).

Some funding agencies support projects on topics D3 respectively E within the Joint Calls launched by Smart Energy Systems ERA-Net respectively CSP ERANET.

Table 2: Matrix of Eligible Topics and Subtopics per Country / Region resp. Funding Agency													
	Austria	Belgium-Flanders	Cyprus	Germany	Germany-NRW	Greece	Israel	Netherlands	Spain-CDTI	Spain-AEI	Sweden	Switzerland	Turkey
A) Advanced industrial PV technologies													
A1	x	x	x	x	x		x	x	x	x		x	x
A2	x	x	x	x	x		x	x	x	x		x	x
A3	x	x	x	x	x		x	x	x	x	x	x	x
A4	x	x	x	x	x		x	x	x	x	x		x
A5	x	x	x	x	x		x	x	x	x	x		x
A6	x	x	x	x	x		x	x	x	x	x		x
A7	x	x	x	x	x		x	x	x	x	x		x
A8	x	x	x	x	x		x	x	x	x	x	x	x
A9	x	x	x	x	x		x	x	x	x	x		x
B) Emerging PV technologies													
B1	x	x	x	x	x	x	x	x	x	x	x	x	x
B2	x	x	x	x	x	x	x	x	x	x	x		x
B3	x	x	x	x	x	x	x	x	x	x	x		x
B4	x	x	x	x	x	x	x	x	x	x	x		x
B5	x	x	x		x	x	x	x	x	x	x		x
B6	x	x	x	x	x	x	x	x	x	x	x	x	x
B7	x	x	x	x	x	x	x	x	x	x	x		x
C) Building and infrastructure integrated PV													
C1	x	x	x	x	x	x	x	x	x	x	x		x
C2	x	x	x	x	x	x	x	x	x	x	x		x
C3	x	x	x	x	x	x	x	x	x	x	x		x
C4	x	x	x	x	x	x	x	x	x	x	x		x
C5	x	x	x	x	x	x	x	x	x	x	x		x
D) Operation, diagnosis and system integration of PV plants													
D1	x	x	x	x	x	x	x	x	x	x	x	x	x
D2	x	x	x	x	x	x	x	x	x	x	x	x	x
D3	x	x	x	x	x	x	x	x	x	x	x	(x)	x
E) CSP low cost and next generation technologies													
E1		x	x		x	x	x		x		x	(x)	x
E2		x	x		x	x	x		x		x	(x)	x
E3		x	x		x	x	x		x		x	(x)	x
E4		x	x		x	x	x		x		x	(x)	x
E5		x	x		x	x	x		x		x	(x)	x
E6		x	x		x	x	x		x		x	(x)	x
E7		x	x		x	x	x		x		x	(x)	x

4. Application Issues

4.1 Timeline and Process

The call is set up as a two-step submission procedure, consisting of a preproposal phase and a full proposal phase. Further information is available with the Guidelines for Users of the Electronic Submission System available on the solar-era.net website. It is a pre-screen of what will be required in the application. Applicants shall not fill in this PDF but enter data online in the Electronic Submission System (ESS). The most relevant dates and deadlines are given in Table 3.

Table 3: Dates and Deadlines for the SOLAR-ERA.NET Cofund 2 Additional Joint Call

Date	Activities
7 October 2019	Launch of the SOLAR-ERA.NET Cofund 2 Additional Joint Call
29 January 2020, 16:00 CET	Deadline for submission of preproposals
Mid-March 2020	Communication on applications selected for full proposal round
25 May 2020, 16:00 CET	Deadline for submission of full proposals
End of June 2020	Final funding decisions communicated to proposers
From October 2020	Start of first projects funded

1. Before submitting a preproposal, all project partners are strongly encouraged to contact their respective national / regional programme funding organisations in order to discuss the project line-up and funding conditions (contacts listed in Table 1).
2. A preproposal is mandatory. It has to be submitted by the coordinator and partners through an online application form accessible via www.solar-era.net within the deadline set. Applicants are invited to register in the Electronic Submission System as early as possible.
3. National / regional organisations will then carry out their eligibility check (and pre-evaluation for some funding agencies) based on the preproposal and the respective national / regional funding rules. Applicants will be provided with feedback after the review of their preproposal, including the information on whether or not they are selected for submitting a full proposal. More specifically, the Joint Call secretariat will inform the coordinator of the application by e-mail on mid-February 2020. If the coordinator has not received any e-mail, he / she shall contact the Call secretariat. Recommendations for the full proposals according to the national / regional rules and principles may then be provided.
4. The full proposal has to be submitted by the applicants (invited for the full proposal phase) through an online application form accessible via www.solar-era.net within the deadline set. Additionally, national / regional funding applications may have to be submitted separately according to their specific rules (see Annex – National / Regional Requirements).
5. Full proposals meeting all national / regional requirements will be evaluated by independent international experts according to the evaluation criteria specified in the call. Based on the result of the international evaluation and funding budget available, proposals will be selected (or not) for funding.

4.2 Eligibility Issues

Different eligibility aspects have to be considered:

- Applications have to be submitted in English through the Electronic Submission System within the deadline set.
- The project consortium has to involve at least 2 partners from 2 different countries participating in the SOLAR-ERA.NET Cofund 2 Additional Joint Call and providing funding to the project selected. At least one partner in the consortium has to be from industry. In order to increase the level of transnationality and covering a wider geographic spectrum, a minimum of 3 partners from 3 different countries is recommended. Some funding agencies require a minimum of 3 partners from 3 different countries or accept only a maximum funding level of e.g. 60% for an individual partner in a project. Partners from countries that do not participate in SOLAR-ERA.NET Cofund 2 (see Table 1) can join a project consortium as additional partners providing added-value to the project. However, these additional partners have to finance their activities from other sources, as each funding agency will only fund eligible partners from their own country / region. A letter of commitment must be included as an annex to the full proposal including the commitment of this partner to the project.
- **All** applicants have to fulfil (additional) eligibility criteria of their respective national / regional programme / funding organisation and are therefore strongly encouraged to contact their agency as early as possible in the process to understand if their project is within scope / eligibility.
- SME, large companies, non-profit research organisations, higher education institutions, public research organisations and public organisations may participate according to their national / regional financing regulations (see Annex – National / Regional Requirements).
- The project duration is limited to max. 36 months.

4.3 Funding Rules

Within this SOLAR-ERA.NET Cofund 2 Additional Joint Call, the funding rules of the national / regional agencies apply. Prior to submitting a preproposal, all project partners seeking funds are strongly encouraged to contact their funding agency / contact point. The level of funding available will be determined by the rules of the relevant funding agency. Information about the specific funding rules and applicable topics will be provided via the person in charge of the respective national / regional agencies (see Table 1). Some relevant information is provided in Annex – National / regional Requirements. Each eligible project partner will receive funds from his / her national / regional agency. Each project partner will be responsible for the preparation and submission of all necessary reports required by their respective funding agency in order to obtain funding in full accordance with national / regional rules.

4.4 Confidentiality

Project proposals and any information relating to them shall be kept confidential in accordance with the applicable national / regional legislation. Project proposals shall not be used for any purpose other than the evaluation of the applications, making funding decisions and monitoring of the project. International experts, which will be invited to evaluate the proposals, are required to sign a confidentiality agreement prior to evaluating proposals.

Successful projects have to provide a non-confidential project summary that will be published on the SOLAR-ERA.NET website in the interests of knowledge exchange and contributions for the trans-national reporting (details of projects are strictly kept confidential, see section 5).

4.5 Consortium Agreement

A consortium agreement between the project partners will be required. In order to accelerate the selection and contract offer process, a statement on the signature of the consortium agreement should be submitted with the full proposal. Models for consortium agreements can be obtained from national / regional funding agencies or from the EC IPR Helpdesk: http://www.ipr-helpdesk.org. The project proposal has to be the foundation for the consortium agreement. The purpose of the consortium agreement is to clarify the responsibilities of the partners, decision processes inside the project, management of any change of partners, how to exploit and/or commercialise the results (for each partner) and IPR issues.

4.6 Evaluation

The evaluation is carried out on a national / regional level for some funding agencies and by independent international experts. The international evaluation criteria are listed in Table 4.

Table 4: Set of International Evalution Criterion Used

Main criterion	Sub-criterion
Excellence	• Clarity and relevance of the project's objectives; • Credibility of the proposed technology/concept – including trans-disciplinary considerations, where relevant; • Credibility of the proposed project approach; • Ambition and innovation potential - e.g. beyond the current state of the art.
Impact	• Expected contribution to the reduction in the cost of solar power, low carbon energy system and other relevant Strategic Targets / Key Performance Indicators (section 3); • 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; • Strength of the proposed research data management, exploitation and dissemination plans (including IPR management proposals, where relevant); • Any other environmental or socially important impacts.
Quality and Efficiency of Implementation	• Coherence and expected effectiveness of the project plan, including the appropriateness of task and resource allocation; • Strength of management structures and governance procedures, including risk management; • Consortium strengths and complementarity of project partners. • Added-value through the transnational consortium

4.7 Funding Recommendation

Based on the evaluation results and funding budget available, projects will be recommended / selected for funding. The outcome of this process will be communicated by the call secretariat to the coordinator of the full proposal. The coordinator will then inform all project partners.

Formal funding decisions are made by the participating funding organisations. The funding recommendation of the call consortium is irrevocable and therefore no redress procedure is possible.

After a positive funding recommendation, the project partners must directly contact their national / regional contact points in order to start the contract negotiation and accomplish the remaining steps until the research project can start. The project coordinator is responsible for synchronising the project start with his/her partners.

5. Funding and Reporting

5.1 Contract

Funding contracts for successful applications are dealt with directly between the project partners and their national / regional funding agencies.

5.2 Start and Instalments

Depending on the national / regional regulations, a pre-condition for transferring the first funding instalments is the existence of a consortium agreement that also includes IPR related issues.

As the national / regional funding contracts may not all become effective at the same time, the project partners i) usually do not receive the instalments and ii) usually are not reviewed / monitored on national / regional level at exactly the same time. The national / regional funders will however aim to agree a common start date for recommended projects.

5.3 Monitoring

Each project partner will be responsible for the necessary reporting to their funding agency according to national / regional rules in order to obtain and maintain funding during the lifetime of their portion of the project. Apart from the national / regional project review, the transnational cooperation aspects will be monitored on the SOLAR-ERA.NET level. The project coordinator on behalf of the consortium is responsible for reporting according to the requirements (reporting at the start, during the course and at the end of project with a publishable summary and further information for internal reporting, participation in questionnaires and dedicated workshops, provide the Consortium Agreement signed).

Any substantial change in an on-going project has to be reported immediately to the involved funding organisations and the Call secretariat. The project partners should be aware that changes might have effects on funding.

5.4 Dissemination and Data

Project partners are required to refer to SOLAR-ERA.NET Cofund 2 in their publications, exhibitions, lectures and press information concerning results of the SOLAR-ERA.NET Cofund 2 projects. Acknowledgement should be: Project [your project] is supported under the umbrella of SOLAR-ERA.NET Cofund 2 by [list of all national agencies supporting your project]. SOLAR-ERA.NET is supported by the European Commission within the EU Framework Programme for Research and Innovation HORIZON 2020 (Cofund ERA-NET Action, N° 786483).

To demonstrate the added value of transnational cooperation projects, results from the call shall be disseminated. This process can be tackled via different channels, e.g.:

- Conferences with relevant stakeholders to inform about the project results.
- Publication of a short outline of funded projects on the SOLAR-ERA.NET and national / regional websites. This information may also be used by SOLAR-ERA.NET for further dissemination. Further details of projects are strictly kept confidential. They can be published only in agreement with the project partners and where there is value in doing so.
- Press conferences and workshops.

The funding agencies will check if a declaration on compliance and/or authorisation is required under national law for collecting and processing personal data as described in the Annex 1 of the Grant Agreement N° 786483. If yes, the declaration on compliance and/or authorisation must be kept on file. If no declaration on compliance or authorisation is required under the applicable national law, a statement from the designated Data Protection Officer that all personal data collection and processing will be carried out according to EU and national legislation will be kept on file.

Annex – National and Regional Requirements

Tables including national / regional requirements are listed in alphabetical order for the following countries / regions and funding agencies.

Austria

Belgium – Flanders

Cyprus

Germany – PtJ

Germany – NRW

Greece – GSRT

Israel

The Netherlands

Spain – AEI

Spain – CDTI

Sweden

Switzerland

Turkey

Applicants are invited to carefully read this annex and are strongly encouraged to contact their funding agencies in order to seek further information, to check their proposal with respect to scope and eligibility and to make sure that they comply with the respective national / regional procedures, requirements, rules and regulations.

Austria

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Austrian Research Promotion Agency (FFG) – Austria
Contact	Anita Hipfinger: anita.hipfinger (at) ffg.at, +43 5 7755 5025
Topics	The Agency potentially supports projects in the following topics and TRL's: • Topic A: TRL 4-7 • Topic B: TRL 3-5 • Topic C: TRL 4-7 • Topic D: TRL 5-7
Type of RTD	The Agency potentially supports Industrial Research und Experimental Development.
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Private – Non-profit research organisation • Non-Profit-Organisations • Public research organisation The national rules on eligible costs for Austrian participants are available from the FFG at www.ffg.at/kostenleitfaden. For further Information (possible Instruments, usual funding rules) please go to www.ffg.at/SOLARERANETCOFUND2/jointcall
Budget	EUR 500'000
Further specification	Applicants have to contact FFG before submitting a preproposal. In parallel to the submission of the joint proposal by the coordinator, a simplified national application is to be submitted via the FFG electronic submission system eCall by participants requesting funding by FFG (both in the preproposal and in the full proposal stage). FFG conducts a formal review of all nationally relevant project proposals including the examination of the application formalities, especially the fulfilment of prerequisites specific to the offered funding instruments; reporting on relevant projects previously funded by FFG programmes; examining the financial aspects of the proposal; financial audit of applicants; available funding budget vs. requested budget by individual partners; relevance to the call goals.

Belgium - Flanders

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Vlaams Agentschap Innoveren en Ondernemen
Contact	Geert Carchon: geert.carchon (at) vlaio.be, +32 2 432 42 94 Bart De Caesemaeker: bart.decaesemaeker (at) vlaio.be, +32 2 432 42 49
Topics	The Agency potentially supports all topics that are of relevance for the Flemish community.
Type of RTD	The Agency potentially supports the following types of RTD, namely: support to R&D by companies: research projects, development projects.
Eligible applicants	All companies with operational activities in Flanders can be funded.
Budget	EUR 500'000 (regional budget)
Further specifications	• The national rules on eligible costs for Flemish participants are available from the VLAIO website https://www.vlaio.be/nl/subsidies-financiering . • Some specific pages dedicated to the SOLAR-ERA.NET Cofund 2 Calls will be foreseen on the VLAIO website (www.vlaio.be) as soon as the calls are opened.

Cyprus

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Research & Innovation Foundation (RIF) Cyprus
Contact	Pavlos Leptos: pleptos (at) research.org.cy, +357 22 205051
Topics	The Agency potentially supports projects in the following topics: • Advanced industrial PV technologies • Emerging PV technologies • Building and infrastructure integrated PV • Operation and diagnosis of PV plants • CSP low cost and next generation technologies
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial / applied research • Experimental development
Eligible applicants	The RIF potentially supports, through its relevant national call, participation of Research Organisations, Enterprises and Other Organisations, as specified in the Work Programme RESTART 2016 - 2020
Budget	EUR 400'000 (national budget covering both PV and CSP)
Further specifications	Please refer to the National call documents and the Work Programme RESTART 2016 – 2020 (available on RIF webpage: http://www.research.org.cy). Proposals must be submitted through the RIF's IRIS portal in order to be considered (http://www.research.org.cy/el/iris-portal).

Germany - PtJ

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Project Management Jülich, Division Energy System: Renewable Energies / Power Plant Technology
Contact	Renate Horbelt: r.horbelt (at) fz-juelich.de, +49 2461 61 9874 Kambulakwao Chakanga: k.chakanga (at) fz-juelich.de, +49 2461 61 9871
Topics	The Agency potentially supports projects in the following topics: • Topic A – Advanced industrial PV technologies TRL: 4 to 7 • Topic B – Emerging PV technologies except subtopic B5. (Dye-sensitized solar cell (DSC)) TRL: 3 to 5 • Topic C – Building and infrastructure integrated PV TRL: 4 to 7 • Topic D – Operation and diagnosis of PV plants TRL: 6 to 7
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial / applied research • Experimental Development
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Private – Non-profit research organisation • Higher education institution • Public research organisation • Public organisation The maximum rate of support for research organisations is 100% of total costs (for all type of R&D); for SMEs: max. 60% for Industrial research and max. 35% for Experimental Development of total costs; for LE's: max. 50% for Industrial research and max. 25% for Experimental Development
Budget	EUR 2'000'000 (national budget)
Further specifications	Only consortia with significant industrial participation are eligible for funding. Three partners from three countries are mandatory. National application forms ("easy-Online Antrag") have to be used for the full proposal phase, submission via https://foerderportal.bund.de/easyonline/ A financial viability check (if applicable) has to be carried out in parallel to the full proposal phase.

Germany – ETN / North-Rhine-Westphalia

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Projektträger ETN
Contact	Dr. Melanie Schulte: me.schulte (at) fz-juelich.de, +49 2461 690 504 Dr. Joachim Kutscher: jo.kutscher (at) fz-juelich.de, +49 2461 690 604
Topics	The Agency potentially supports projects in all topics.
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial / applied research • Experimental Development
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Private – Non-profit research organisation • Higher education institution • Public research organisation • Public organisation
Budget	EUR 350’000 (regional budget)
Further specifications	Additional application forms have to be used for the full proposal phase. A financial viability check (if applicable) has to be carried out in parallel to the full proposal phase. Please contact Projektträger ETN in advance.

Greece

Agency	GENERAL SECRETARIAT FOR RESEARCH AND TECHNOLOGY (GSRT)
Contact	Paraskevi Afentaki National Coordinator of ERANETS Ministry for Development and Investments General Secretariat for Research & Technology International S&T Cooperation Directorate Bilateral and Multilateral Cooperation Section 14-18 Messogeion Ave., 115 10 Athens, Greece Tel.: +30 213 13 00 112 Email. pafe (at) gsrt.gr Information can also be provided by Dr. Anna Rosenberg Ministry for Development and Investments General Secretariat for Research & Technology International S&T Cooperation Directorate Bilateral and Multilateral Cooperation Section 14-18 Messogeion Ave., 115 10 Athens, Greece Tel.: +30 213 13 00 095 E-mail: a.rosenberg (at) gsrt.gr
Topics	The Agency potentially supports projects in the following topics: All subtopics from: B,C,D,E topics TRL3-(8) (according to COMMISSION REGULATION (EU) No 651/2014/Definitions for Aid for Research, Development and Innovation, pages 24-26/par. 83-96)
Type of RTD	GSRT potentially supports the following types of RTD, namely: Industrial research, experimental development, feasibility studies (COMMISSION REGULATION (EU) No 651/2014 article 25)
Eligible applicants	GSRT potentially supports all private and public legal entities namely: private enterprises (such as SMEs, large-companies etc), research organizations, higher education institutions, and other public organizations with R&D activities). Individuals as well as individual enterprises are not eligible under this scheme.
Budget	EUR 1’000’000 national funding that comes from structural funds and particularly from Operational Programme for Research, Entrepreneurship and Innovation 2014-2020, National Research and Innovation Strategy for Smart Specialization 2014-2020 (RIS3)
Further specifications	***Eligible costs*** (a) personnel costs: researchers, technicians and other supporting staff to the extent employed on the project. (b) costs on fixed assets i.e. b1) costs of instruments and equipment to the extent and for the period used for the project. Where such instruments and equipment are not used for their full life for the project, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible and b2) costs for buildings and land, to the extent and for the duration period used for the project. With regard to buildings, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible. For land, costs of commercial transfer or actually incurred capital costs are eligible.

(c) costs of contractual research, knowledge and patents bought or licensed from outside sources at arm's length conditions, as well as costs of consultancy and equivalent services used exclusively for the project.
(d) additional general costs and other operating expenses, including costs of materials, supplies, travel expenses, organization of meetings, dissemination/publicity costs, audit costs, incurred directly as a result of the project implementation.
(e) indirect costs = flat rate 15% of gross personnel costs excluding VAT = 15%* (a-(VAT of a)). Indirect costs are eligible for all legal entities and include costs that do not incur directly as a result of the project implementation (e. g. administrative and management costs, utility costs).
Note: Please bear in mind that scientific management costs are eligible under category (a) whereas administrative and financial/legal management costs fall under eligible categories (e) or (d)-audit costs only.

Aid of intensity

Public research Institutes and Universities: the aid intensity can reach 100% for performing non-economic activities in accordance with point 19, article 2.1.1 of the «Framework for State aid for research and development and innovation» (2014/C 198/01)).

Private Sector: (a) 50% of the eligible costs for industrial research; (b) 25% of the eligible costs for experimental development; (c) 50% of the eligible costs for feasibility studies.
- The aid intensities for industrial research and experimental development may be increased up to a maximum aid intensity of 80% of the eligible costs as follows:
  (a) by 10 percentage points for medium-sized enterprises and by 20 percentage points for small enterprises;
  (b) by 15 percentage points if one of the following conditions is fulfilled:
    (i) the project involves effective collaboration:
      — between undertakings among which at least one is an SME, or is carried out in at least two Member States, or in a Member State and in a Contracting Party of the EEA Agreement, and no single undertaking bears more than 70 % of the eligible costs, or
      — between an undertaking and one or more research and knowledge-dissemination organisations, where the latter bear at least 10 % of the eligible costs and have the right to publish their own research results;
    (ii) the results of the project are widely disseminated through conferences, publication, open access repositories, or free or open source software.
-The aid intensity for feasibility studies may be increased by 10 percentage points for medium-sized enterprises and by 20 percentage points for small enterprises.

Upper funding limits for the eligible costs
Upper limit of the total public funding will be 200.000 € per project (including indirect costs). Please note that this amount can be increased to 250.000 € per project if Greek partner assumes the project coordination. The maximum state aid intensity will be calculated according to the provisions of the European state aid rules and regulations in force (type of research activity, size of the participating enterprise, collaborative research).

	Duration of the projects The duration of a funded project is 24-30 months. A possible extension of the duration under conditions can be accepted for the projects with a project duration of 24 months with a maximum up to the 1/3 of the initial duration taking into account the starting date without modifying the scientific or increasing the financial part of the project and the prerequisites of the current Operational Programme 2014-2020 (e.g. closing date for financing the projects in national level). **Evaluation** In national level, only eligibility check is conducted and not a full evaluation in pre-proposal and full proposal stages. We rely on the evaluation of external experts. **National requirements:** ***Submission at the national level is required at a later stage.*** A national call will be published to support the approved, at the transnational level, proposals only. Detailed information on the procedure and the funding rules will be provided at the GSRT website in the guidelines of the national call, during the submission period. For more information please contact the NCP.

Israel

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Ministry of Energy
Contact	Gideon Friedmann. gideonf (at) energy.gov.il
Topics	The Agency potentially supports projects all eligible topics and subtopics.
Type of RTD	The Agency potentially supports all types of RTD.
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME or large companies • Private – Private persons (must incorporate before signing the contract) • Private – Non-profit research organisation • Higher education institution • Public research organisation • Public organisation • Municipalities
Budget	EUR 600’000 (national budget)
Further specification	

The Netherlands

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Netherlands Enterprise Agency RVO (Team Energy Innovation), Netherlands
Contact	Otto Bernsen, otto.bernsen (at) rvo.nl
Topics	The Agency potentially supports projects in the following topics but in different subsidy schemes this year! Concerning the topics in A and B there is however still uncertainty about the available budget in 2020 and an update on this will follow in December 2019. For now only certainty exists about the availability of funding for the HE and DEI subsidy schemes: A) Advanced industrial PV technologies B) Emerging PV technologies C) Building and infrastructure integrated PV D) Operation, diagnosis and system integration of PV plants Further topics of interest are floating PV and PV integrated into the landscape and agri-cultural systems.
Type of RTD	For now there is only certainty about the availability of budget for the general subsidy schemes HE (Renewable Energy) and DEI (Demonstration energy Innovation), see links below for 2019 outlines that will continue in 2020 but maybe with some modifications. About these changes an update will also follow in December 2019. Both the HE and DEI subsidy scheme aim at higher TRL levels which is a major change with previous years (see links below for a 2019 description of these schemes): • Last phases of Industrial / applied research PV technologies (only the HE subsidy scheme) • Experimental development (for both HE and DEI subsidy schemes) • Demonstration (for both HE and DEI subsidy schemes) • Pilot projects (only DEI subsidy scheme)
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Private – Non-profit research organisation • Higher education institution • Public research organisation
Budget	Contact RVO in December 2019 for more exact information and numbers about the national calls in 2020. In 2019, the max subsidy was 6 million € for a project both for HE and DEI.
Further specification	RVO will inform about the availability of dedicated funding for solar technologies also at lower TRL levels within the joint SOLAR-ERA.NET Call and possible changes to the existing HE and DEI schemes in December 2019. Dutch consortium partners in the SOLAR-ERA.NET project proposals, that wish to receive subsidy for financing their national part of the project budget, additionally need to submit the project proposal in spring 2020 with a specific budget for only the Dutch partners in the project, in the national HE subsidy scheme or DEI subsidy scheme. RVO will update the information in December 2019 with more actual figures and you can always contact your national contact point before filing a proposal!

	HE subsidy scheme 2019 to be updated in December 2019 for 2020: https://www.rvo.nl/subsidies-regelingen/hernieuwbare-energie The HE subsidy scheme focuses on future savings in the deployment of renewable energy sources in the SDE plus scheme for large scale solar (> 15 kWp). DEI subsidy scheme to be updated in December 2019 for 2020: https://www.rvo.nl/subsidies-regelingen/demonstratie-energie-en-klimaatinnovatie The DEI focuses on innovative developments and demonstrations that accelerate the renewable energy deployment. All information about these two Dutch subsidy tenders, including eligibility criteria, can be found following these links (with changes possibly pending for the 2020 tenders) Project cost according to the guidelines laid down GBER and the "Kaderbesluit Nationale EZ subsidies"; including personnel cost, cost of instruments and equipment, cost of buildings and land, cost for contractual research, knowledge and patents from outside sources, additional operating expenses, directly related to the project. See also www.rvo.nl/subsidiespelregels. The TKI Urban Energy invites all Dutch project consortium partners to discuss the content of their SOLAR-ERA.NET project proposal before submission. More information about the TKI Urban Energy can be found on www.tki-urbanenergy.nl Contact: Wijnand van Hooff TKI Urban Energy, wijnand (at) tki-urbanenergy.nl

Spain – AEI

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Funding organisation	***Agencia Estatal de Investigación* (AEI - State Research Agency), Spain**
Funding programme	*Programa Estatal de I+D+i Orientada a los Retos de la Sociedad, Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020*. The instrument for funding the Spanish groups will be the Spanish call on RDI Projects International Joint Programming (***Proyectos I+D+I Programación Conjunta Internacional PCI***) or equivalent, which is expected to be launched in 2020 (PCI call). As a reference, the beneficiaries are advised to read the call *PCI 2019*. SOLAR ERA NET 2 call will be managed by the *Subdivisión de Programas Científico-Técnicos Transversales, Fortalecimiento y Excelencia*
Purpose of funding	The projects granted by the AEI must be aligned with the main objectives of the *Plan Estatal*.
Budget	Initial funding pre-commitment: Maximum funding for the SOLAR ERA NET call 2019: 300.000 €
National Contact Point	PhD. Alberto Abánades (Scientific issues) Daniel Ruiz Iruela (Administrative and technical issues) Telephone: +34 916037968 Contact email : era-energia@aei.gob.es
Eligibility	**Three eligible applicants from at least three participating countries must be in consortium.** Applicants are obliged by the regulations of this transnational call and those in the PCI call. The **eligible entities** for AEI funding are non-profit research organisations The **Principal Investigators** applying for funding to the AEI must have experience as investigators in projects funded by the *Plan Estatal I+D+i 2013-2016*, the *Plan Estatal I+D+i 2017-2020*, ERC Grants, European Framework Programmes or other relevant international programmes. **Important eligibility criteria with reference to the topics and TRLs under the call text:** **1. Eligible entities** for **AEI are obliged to participate in cooperation with one profit organization requesting funding to the *Centro para el Desarrollo Tecnológico Industrial* (CDTI) under the topics A, C and D.** **2. For topic B, participation of the Spanish industrial sector is highly recommended, but not mandatory.** **3. AEI is not funding topic E (CSP) in this transnational call.**
Incompati-bilities	**1.** Principal Investigators are not allowed to apply for funding in more than one proposal of this SOLAR ERA NET 2 joint Call, in more than one proposal in the same PCI call and in two PCI calls in consecutive years. **This must be taken into account when participating in different ERA-Nets or other international initiatives.**

	2. Principal Investigators must remain unchanged between the proposal to this transnational call and the national PCI call. The AEI will avoid double funding (overlapping with other EU or national funding), and will not grant projects or parts of projects already funded.
Eligible costs	• Personnel costs for temporary employment contracts (scholarships are not eligible). • Current costs, small scientific equipment, disposable materials, travelling expenses and other costs that can be justified as necessary to carry out the proposed activities. • Indirect costs (overheads) **are not eligible** for funding in the PCI call.
Funding rates (approx.) and additional eligibility criteria	**The duration of the projects should be preferably 3 years, with a minimum of 2 years.** The following funding limits are considered eligibility criteria. Proposals not respecting these limits could be declared ineligible. • Maximum amount of **funding per proposal eligible for AEI** should not exceed €50.000 per year. • If the transnational proposal is **led by a PI eligible for AEI** funding, a maximum of € 15.000 per year in addition. Centres formed by different Spanish legal entities will be considered as a unique entity, and thus the maximum funding should not exceed the limits per proposal established above (for example mixed centres). The final funding level will take into account the transnational evaluation of the collaborative proposal, the scientific quality of the Spanish group, the added value of the international collaboration, the participation of the industrial sector, and the financial resources available.
Further instructions	Acknowledgement Any publication or dissemination activity resulting from the granted projects must acknowledge the AEI funding: “Project (reference nº XX) funded by the AEI through PCI call”.

Spain - CDTI

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	CDTI - Centro para el Desarrollo Tecnológico Industrial, E.P.E.
Contact	Héctor González: hector.gonzalez (at) cdti.es, +34 91 581 04 89
Topics	The Agency potentially supports projects in all the call topics as long as the activities to be developed are technology-based.
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial Research and /or Experimental Development (TRL up to 8). *N.B. Only technology-based activities within industrial research and/or experimental development projects are eligible for funding (in accordance with the definitions of the General Block Exemption Regulation, EC Regulation nº651/2014: http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv%3AOJ.L_.2014.187.01.0001.01.ENG).* *The Spanish part of the proposed work plan must be developed in Spain. Please note that non-technological activities related to business models or processes are excluded for CDTI funding.*
Eligible applicants	The Agency potentially supports for-profit private companies (being SME or large companies) established and carrying out R&D activities in Spain. *N.B. Other entities such as Universities, Public Research Institutions, Technological Centres, and non-profit private institutions could participate under subcontracting by Spanish companies (subcontracting cannot exceed the 50% of the national project budget).*
Budget	EUR 500'000 (CDTI budget)
Further specifications	**The eligible costs include:** ▪ Personnel costs, to the extent employed on the research project. ▪ Instrument and equipment costs, to the extent and during the period in which they are used for the project. ▪ Contractual research costs, technical knowledge and patents bought or licensed from outside sources at market prices, as well as costs of consulting services intended exclusively for the research project. ▪ Other costs (operating expenses) including materials, supplies and similar products, exclusively used for the research project. Audit costs for the national reporting of the project (when applicable). ▪ Additional general expenses (indirect costs, as a percentage of personnel costs). Applicants must check the detailed description published on CDTI website. Please note that management and dissemination costs are not eligible for funding. **Project duration:** 12 to 36 months. **Project transnationality:** projects should be transnational by nature, therefore, each country/ region will be responsible for no more than 70% of the total budget project costs. **Compulsory Minimum Eligible Budget**: € 175,000 (this amount applies to the project budget per partner, not the requested funding). **Mandatory National Application** Additionally to the international application process, those applicants requesting funding from CDTI must submit a formal application by way of **CDTI electronic submission system** (https://sede.cdti.gob.es/AreaPrivada/Expedientes/accesosistema.aspx /

	https://sede.cdti.gob.es). The application must include a detailed description, in Spanish Language, of the activities to be undertaken by the company and the respective budget. Applicants must indicate their VAT (CIF) number in all their respective applications (both international and national). Further guidance will be published on CDTI website. **Financial conditions** Specific financial conditions for ensuring the beneficiary's solvency could be required according to CDTI funding rules. CDTI will avoid double funding, and will not finance projects, or parts of projects, which have been already funded through other national, transnational or EU calls. CDTI will be responsible for making the final decision regarding the awarding of funds, taking fully into account the transnational evaluation of the collaborative project, the previous funds received by the participants for other related projects, the fulfilment of eligibility and funding rules, and the financial resources available. **Further information** Applicants are strongly advised to check the detailed information available on CDTI website and to contact the NCP for getting advice about national funding rules, before submitting a proposal. Please check the complete national funding rules and relevant information about the call on the following links: *"Financiación CDTI para Proyectos de Investigación y Desarrollo"* http://www.cdti.es/index.asp?MP=100&MS=802&MN=2 *"Financiación CDTI para Proyectos Transnacionales en el marco de acciones ERA-NET"* *http://www.cdti.es/index.asp?MP=101&MS=831&MN=2* For further information, please contact the NCP or visit CDTI website: https://www.cdti.es/

Sweden

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Swedish Energy Agency (Energimyndigheten)
Contact	Pierre-Jean Rigole: pierre-jean.rigole (at) swedishenergyagency.se, +46 16 544 21 91 Tobias Walla: tobias.walla (at) swedishenergyagency.se, +46 16 544 20 54
Topics	All topics are eligible except: A1. Passivated emitter and rear cell (PERC), heterojunction (HJT) technologies and advanced passivating concepts for crystalline silicon solar cells. A2. High-performance silicon-based cells (>24%) and modules.
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial / applied research • Experimental development
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Private – Non-profit research organisation • Higher education institution • Public research organisation • Public organisation
Budget	EUR 800’000
Further specifications	• At least one Swedish private entreprise (SME or large company) must be part in the project. • The SOLAR-ERA.NET proposal forms can be used for the preproposal stage. • Swedish partners need to **submit a national application for its part in the project in parallel with the full proposal application to the call**. Further information can be obtained from the national contact points. • For the Swedish part of the application, the same conditions apply as for ordinary national applications. Projects need to contribute to the Swedish Energy Agency´s target under the energy research bill, that is, they must either be beneficial for the Swedish energy system, or beneficial for business in Sweden. • Funding of enterprise RTD is subject to Swedish ordinance: *Förordning om statligt stöd till forskning och utveckling samt innovation inom energiområdet (SFS2008:761)*.

Switzerland

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	Swiss Federal Office of Energy (SFOE)
Contact	Stefan Oberholzer, stefan.oberholzer (at) bfe.admin.ch
Topics	The Office (or other agencies) potentially supports projects in the following topics: • Innovative and low-cost PV manufacturing issues • Advanced PV products and applications • Topic E (CSP): differentiation with the parallel call in CSP Era.net needs to be clear (https://csp-eranet.eu/calls) • Topic D.3: only very specific PV-related proposal can be considered. For grid-topics in general, Switzerland participates in the Smart Energy Systems Era.net (https://www.eranet-smartenergysystems.eu)
Type of RTD	The Office potentially supports the following types of projects, namely: • Pilot- and demonstration projects, including industrial processes and pilot manufacturing • Industrial / applied research
Eligible applicants	The Office potentially supports all private and public applicants, namely: higher education institution, public research organisation, public organisation, private – SME (Industry), private – large companies (Industry), private – Non-profit research organisation
Budget	EUR 200'000 (national budget, mainly provided by SFOE pilot and demonstration funds)
Further specifications	• The SOLAR-ERA.NET proposal forms / electronic submission system can be used for the preproposal stage. • A *direct* contact with SFOE is mandatory before any electronic submission (at least 2 weeks before submission). • Funding is primarily provided for pilot and demonstration project with TRL>5 (exceptionally TRL4) which underlie the national rules for such projects: - Funding is limited to 40% of the eligible project costs, which are the additional project costs that cannot be amortized over the expected lifetime of the developed installation or solution. Additional project costs are the additional costs compared to the costs of implementing an equivalent, conventional technology or solution. - Eligible funding recipients are private and public sector entities (companies, research institutes, municipalities, or communities consisting of several of the former). - Project topic contributes to increasing energy efficiency or use of renewable energy; - High application and success potential; - Project topic in line with the Swiss energy policy; - Gathered results are publically accessible and disseminated. - More criteria might be added depending on the topic / adjudication mode. • In exceptional cases, smaller research type projects can be supported through the SFOE research programme application rules. The maximum funding rate for *applied research* is max. 100% of total costs for non-profit research organisations, max. 50% of total costs for SMEs and LEs; for *experimental development* is max. 50% of total costs for non-profit research organisations and max. 50% of total costs for SMEs and for LEs. • Preproposals selected for the full proposal round: Applicants have to use *both* SOLAR-ERA.NET *and* national SFOE full proposal forms. If the national SFOE full proposal is not submitted in time, SOLAR-ERA.NET full proposals cannot be evaluated.

Turkey

Specifications for SOLAR-ERA.NET Cofund 2 Additional Joint Call

Agency	TÜBİTAK
Contact	Kaan Karaöz: kaan.karaoz (at) tubitak.gov.tr, +90 312 2989466 Salih Hacıalioğlu: salih.hacialioglu (at) tubitak.gov.tr, +90 312 2981242 (ARDEB)
Topics	• Advanced industrial PV technologies • Emerging PV technologies • Building and infrastructure integrated PV • Operation and diagnosis of PV plants • CSP low cost and next generation technologies
Type of RTD	The Agency potentially supports the following types of RTD, namely: • Industrial / applied research • Experimental development • Fundamental / basic research
Eligible applicants	The Agency potentially supports all private and public applicants, namely: • Private – SME • Private – large companies • Higher education institution • Public research organisation
Budget	EUR 1’000’000 (national budget)
Further specifications	All operative documents are obtainable from http://www.tubitak.gov.tr.