

# Welcome

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Office of ENERGY EFFICIENCY  
& RENEWABLE ENERGY

SOLAR ENERGY TECHNOLOGIES OFFICE

# Solar Energy Technologies Office Fiscal Year 2022 Concentrating Solar – Thermal Power Funding Program

## DE-FOA-0002630

FOA Webinar

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February 24, 2022

# Solar Energy Technologies Office 2022 Concentrating Solar Power Funding Program

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## Welcome!

- This webinar will provide an overview of the Department of Energy's Solar Energy Technologies Office (SETO) and our recently announced 2022 Funding Program for Concentrating Solar- Thermal Power
- All applicants are strongly encouraged to carefully read the Funding Opportunity Announcement (FOA) **DE-FOA-0002630** and adhere to the stated submission requirements.
- This presentation summarizes the contents of FOA. No new information on the FOA will be discussed in this webinar. There are no particular advantages or disadvantages to the application evaluation process with respect to participating on the webinar today. Your participation is completely voluntary.
- If there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the FOA is the controlling document and applicants should rely on the FOA language and seek clarification from EERE by submitting questions to [cspfoa22@ee.doe.gov](mailto:cspfoa22@ee.doe.gov)
- Please use the chat feature of the WebEx to ask questions or direct questions to [cspfoa22@ee.doe.gov](mailto:cspfoa22@ee.doe.gov). SETO will post answers to FOA-related questions on Exchange so everyone has equal access to the answers.

# Solar Energy Technologies Office 2022 Concentrating Solar Power Funding Program

## Anticipated Schedule:

<b>FOA Issue Date:</b>	2/08/2022
<b>Informational Webinar</b>	2/24/2022
<b>Submission Deadline for Concept Papers</b>	3/16/2022 5pm ET
<b>Submission Deadline for Full Applications:</b>	5/16/2022 5pm ET
<b>Expected Submission Deadline for Replies to Reviewer Comments</b>	7/01/2022 5pm ET
<b>Expected Date for EERE Selection Notifications:</b>	9/09/2022
<b>Expected Timeframe for Award Negotiations:</b>	Sep 2022 – Nov 2022

**All Submission Deadlines are at 5:00 p.m. ET on date listed.**

# Agenda

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- 1) FOA Description
- 2) Topic Areas/Technical Areas of Interest
- 3) Teaming List
- 4) Diversity, Equity, and Inclusion
- 5) Award Information
- 6) Statement of Substantial Involvement
- 7) Cost Sharing
- 8) FOA Timeline
- 9) Concept Papers
- 10) Full Applications
- 11) Merit Review and Selection Process
- 12) Registration Requirements

# FOA Description

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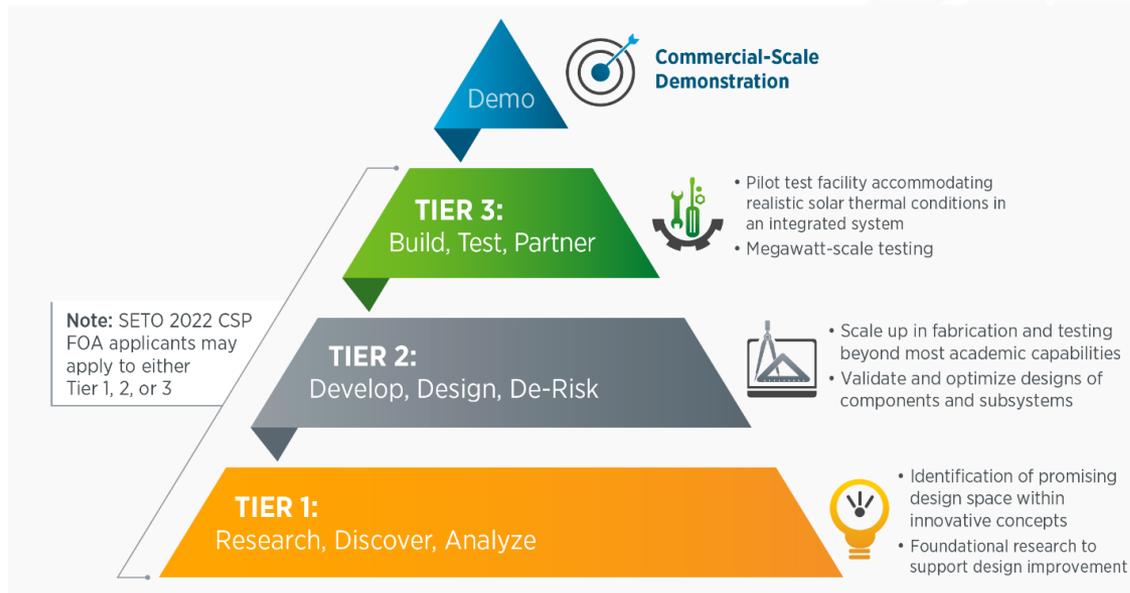
This funding opportunity announcement (FOA) is being issued by the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy (EERE) Solar Energy Technologies Office (SETO) to invest in innovative research and development (R&D) that will drive down costs and develop next-generation technologies ready for commercialization.

The office supports solar energy research, development, demonstration, and technical assistance in five areas—photovoltaics (PV); concentrating solar-thermal power (CSP); systems integration; manufacturing and competitiveness; and soft costs—to improve the affordability, reliability, and domestic benefit of solar technologies on the electric grid.

Building a clean and equitable energy economy and addressing the climate crisis is a top priority of the Biden Administration. This FOA

- will advance the Biden Administration's goals to achieve carbon pollution-free electricity by 2035 and to “deliver an equitable, clean energy future, and put the United States on a path to achieve net-zero emissions, economy-wide, by no later than 2050” to the benefit of all Americans.
- The Department of Energy is committed to pushing the frontiers of science and engineering, catalyzing clean energy jobs through research, development, demonstration, and deployment, and ensuring environmental justice and inclusion of underserved communities.

# SOLAR Tier Structure



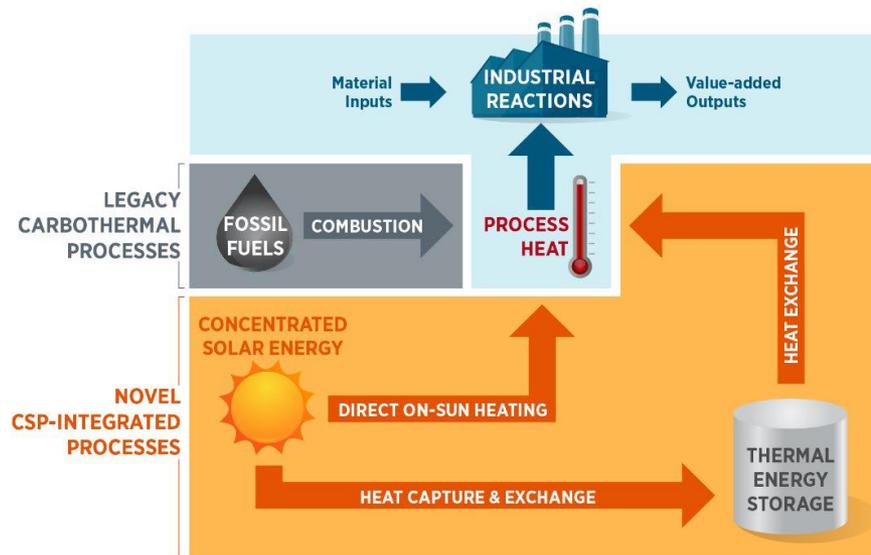
## *SOLAR Tier Structure*

The topics in this FOA require applicants to respond within the framework of a rubric nicknamed SOLAR (Scalable Outputs for Leveraging Advanced Research).

Technology developers are required to look beyond near-term experimental goals and anticipate the practical challenges of subsequent development campaigns. Teams, technologies, and integration and commercialization strategies are expected to evolve as a concept advances from one tier to the next.

# Topic 1: Concentrating Solar Thermal for Industrial Decarbonization

This topic will fund research, development, and demonstration of the most promising technology pathways for concentrating solar thermal (CST) to provide renewable, high-temperature heat to industries like iron ore reduction and steel manufacture, cement production, and ammonia synthesis. Projects in this topic are expected to develop and validate components, like receiver/reactors, heat exchangers, and thermal storage systems, relevant to solar thermochemical processes that directly replace existing fossil-fuel driven technologies.



*Figure shows conceptualized replacement of fossil energy by CST leading to reduction/elimination of emissions.*

# Topic 1: Concentrating Solar Thermal for Industrial Decarbonization

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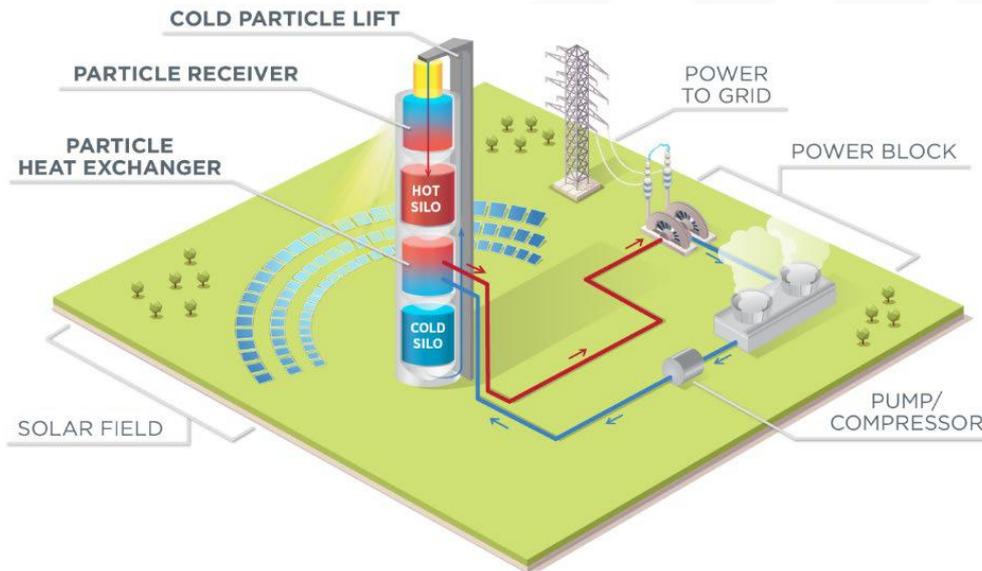
The industrial processes are of particularly high priority for this Topic, due to their relative contributions to carbon emissions are:

- Hydrogen production
- Cement production
- Steel production
- Chemical production –
  - Ammonia
  - Fuels
  - Dehydrogenation of ethylbenzene to styrene
  - Light alkanes to olefins
  - Steam cracking/pyrolysis of ethane/propane/naptha.

However, applicants may submit proposals for CST integration with other high temperature processes that may be relevant to other industrial applications. Proposals should justify that their technology will have a significant impact on industrial fossil fuel consumption and/or CO2 emissions.

## Topic Area 2: Concentrating Solar-thermal Particle Technologies for Generation 3 CSP and Beyond (Gen3++)

The 'Gen3++' topic follows on the selection, by SETO, of the solid-particle system as the most promising 'Gen3' pathway for collecting, storing, and delivering high-temperature (>700 °C) solar heat to advanced power cycles for next generation, high-efficiency CSP systems.



*Figure above shows the general design of a particle based CSP system; several forms of particle receiver shape, design and layout of silos, heat exchanger and intermediate lift are feasible; power block is a representation*

## Topic Area 2: Concentrating Solar-thermal Particle Technologies for Generation 3 CSP and Beyond (Gen3++)

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In particular, this topic is focused on continuing the development of particle-based systems and components for supercritical carbon dioxide (sCO<sub>2</sub>), steam and thermal industrial process applications.

Technical Areas of interest in this topic will include, but not limited to:

- 1) Gen3 CSP component development and scaleup
- 2) Receiver System (focusing on receiver and particle lifts)
- 3) Particle Heat Exchangers
- 4) Particle CSP Towers
- 5) Solid particle media
- 6) Particle-heated steam generation systems
- 7) Improved sCO<sub>2</sub> power blocks for integration with particle based CSP

# Non-Responsive Applications

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The following types of applications will be deemed nonresponsive and will not be reviewed or considered for an award:

- Applications that fall outside the technical parameters specified in Section I.A or I.B of the FOA
- Applications for proposed technologies that are not based on sound scientific principles (e.g., violate the law of thermodynamics).
- The development of the core SOEC technology.
- Proposals that couple mature solar thermal collectors for supplying process steam (< 40 bars/250 C), with no additional innovation.
- Low(<3.5 barg/150°C) and medium-pressure/temperature (40 barg/250°C) steam applications.

# Teaming Partner List

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- To facilitate the formation of new project teams for this FOA, a Teaming Partner List is available at <https://eere-exchange.energy.gov> and at <https://www.energy.gov/eere/solar/articles/funding-notice-concentrating-solar-thermal-power-fiscal-year-2022-research>
- Any organization that would like to be included on this list should submit the following information to [CSPFOA22@ee.doe.gov](mailto:CSPFOA22@ee.doe.gov):
  - Organization Name, Contact Name, Contact Address, Contact Email, Contact Phone, Organization Type, Area of Technical Expertise, and Brief Description of Capabilities
- By submitting this information, you consent to the publication of the above-referenced information
- By facilitating this Teaming Partner List, EERE does not endorse or otherwise evaluate the qualifications of the entities that self-identify themselves for placement on the Teaming Partner List

# Diversity, Equity, and Inclusion (DEI)

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- It is the policy of the Biden Administration that:
  - [T]he Federal Government should pursue a comprehensive approach to advancing equity for all, including people of color and others who have been historically underserved, marginalized, and adversely affected by persistent poverty and inequality. Affirmatively advancing equity, civil rights, racial justice, and equal opportunity is the responsibility of the whole of our Government.
- As part of this whole of government approach, this FOA seeks to encourage the participation of underserved communities and underrepresented groups.
- Applicants are highly encouraged to include individuals from groups historically underrepresented in STEM on their project teams. Additionally, applicants are required to submit a DEI plan that describes the actions the applicant will take to foster a welcoming and inclusive environment, support people from underrepresented groups in STEM, advance equity, and encourage the inclusion of individuals from these groups in the project; and the extent the project activities will be located in or benefit underserved communities (see Section IV.E.xiv of the FOA).
- The plan should include specific, measurable, assignable, realistic and time-related (SMART) milestones supported by metrics to measure the success of the proposed actions. This plan will be evaluated as part of the technical review process.

# Award Information

<b>Total Amount to be Awarded</b>	Approximately \$25 million*
<b>Average Award Amount</b>	EERE anticipates making awards that range from \$750,000 to \$6 million
<b>Types of Funding Agreements</b>	<ul style="list-style-type: none"><li>• Cooperative Agreements**</li><li>• Grants</li><li>• Technology Investment Agreements</li><li>• Work Authorizations</li><li>• Interagency Agreements</li></ul>
<b>Period of Performance</b>	12 to 36 months
<b>Cost Share Requirement</b>	20-50% of total project costs

\* Subject to the availability of appropriated funds

\*\* Although all of the above funding types are available, EERE generally will fund cooperative agreements

# Statement of Substantial Involvement

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EERE has substantial involvement in work performed under cooperative agreement awards made following this FOA. EERE does not limit its involvement to the administrative requirements of the award. Instead, EERE has substantial involvement in the direction and redirection of the technical aspects of the project as a whole. Substantial involvement includes, but is not limited to, the following:

- EERE shares responsibility with the Recipient for the management, control, direction, and performance of the Project.
- EERE may intervene in the conduct or performance of work under this award for programmatic reasons. Intervention includes the interruption or modification of the conduct or performance of project activities.
- EERE may redirect or discontinue funding the Project based on the outcome of EERE's evaluation of the Project at the Go/No-Go decision points.
- EERE participates in major project decision-making processes.

# Cost Sharing Requirements

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Cost share must be at least 20% of the total allowable costs for projects (or project activities) in research and development and education and outreach and 50% of the total allowable costs for demonstration projects (or project activities) and must come from non-federal sources unless otherwise allowed by law.

Topic Area Number	Topic Area Title	Cost Share Requirement
1	Concentrating Solar Thermal for Industrial Decarbonization	20%, 50%
2	Concentrating Solar-thermal Particle Technologies for Generation 3 CSP and Beyond (Gen3++)	20%, 50%

# Cost Share Contributions

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- Contributions must be:
  - Specified in the project budget
  - Verifiable from the Prime Recipient's records
  - Necessary and reasonable for proper and efficient accomplishment of the project
- If you are selected for award negotiations, every cost share contribution must be reviewed and approved in advance by the Contracting Officer and incorporated into the project budget before the expenditures are incurred
- Please note, vendors/contractors may NOT provide cost share. Any partial donation of goods or services is considered a discount and is not allowable.

# Allowable Cost Share

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- Cost Share must be allowable and must be verifiable upon submission of the Full Application
- Refer to the following applicable Federal cost principles:

Entity	Cost Principles
For-profit entities	FAR Part 31 <a href="http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/31.htm">http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/31.htm</a>
All other non-federal entities	2 CFR Part 200 Subpart E - Cost Principles <a href="https://www.ecfr.gov/cgi-bin/text-idx?node=2:1.1.2.2.1.5&amp;rgn=div6">https://www.ecfr.gov/cgi-bin/text-idx?node=2:1.1.2.2.1.5&amp;rgn=div6</a>

# Allowable Cost Share

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- Cash Contributions
  - May be provided by the Prime Recipient, Subrecipients, or a Third Party (may not be provided by vendors/contractors)
  - Can include but are not limited to: personnel costs, fringe costs, supply and equipment costs, indirect costs and other direct costs.
- In-Kind Contributions
  - Can include but are not limited to: the donation of volunteer time or the donation of space or use of equipment.

For more information, see [Cost Share Open to A in the FC](#)

# Unallowable Cost Share

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The Prime Recipient may **NOT** use the following sources to meet its cost share obligations including, but not limited to:

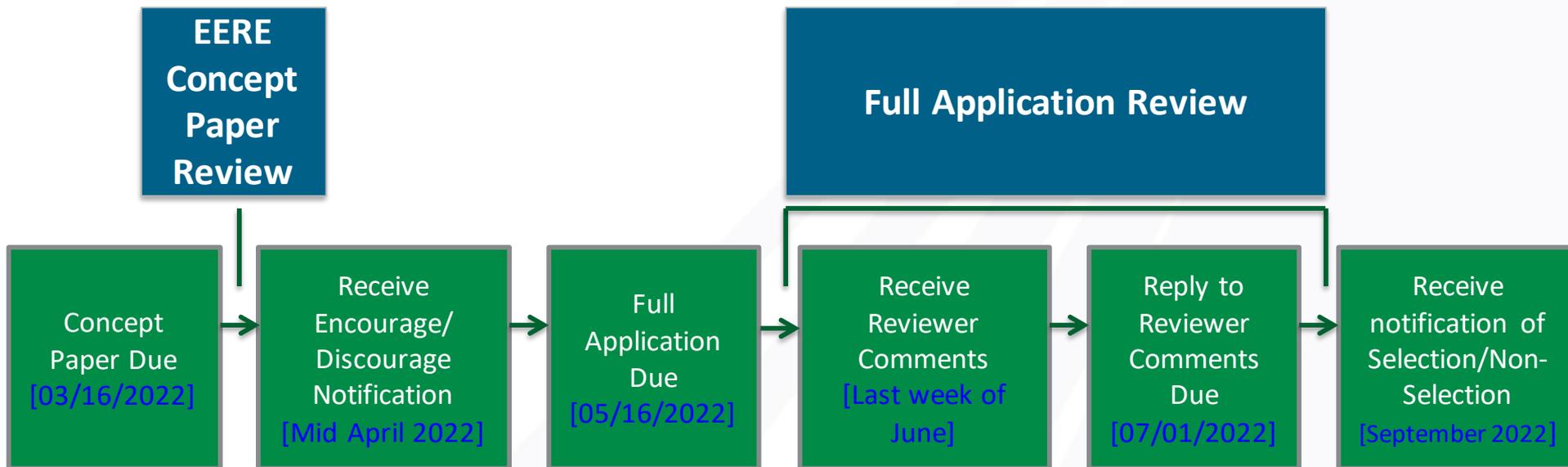
- Revenues or royalties from the prospective operation of an activity beyond the project period
- Proceeds from the prospective sale of an asset of an activity
- Federal funding or property
- Expenditures reimbursed under a separate Federal Technology Office
- The same cash or in-kind contributions for more than one project or program
- Vendor/contractor contributions

# Cost Share Payment

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- Recipients must provide documentation of the cost share contribution, incrementally over the life of the award
- The cumulative cost share percentage provided on each invoice must reflect, at a minimum, the cost sharing percentage negotiated
- In limited circumstances, and where it is in the government's interest, the EERE Contracting Officer may approve a request by the Prime Recipient to meet its cost share requirements on a less frequent basis, such as monthly or quarterly. See Section III.B.6 of the FOA.

# FOA Timeline



All Submission Deadlines are at 5:00 p.m. ET on date listed

Applicants are strongly encouraged to submit FOA application documents at least 48 hours in advance of the submission deadline.

Expected Timeframe for Award Negotiations: September 2022 – November 2022

# Concept Papers

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- Applicants must submit a Concept Paper
  - Each Concept Paper must be limited to a single concept or technology
- Section IV.C of the FOA states what information a Concept Paper should include and the page limits.
  - Failure to include the required content could result in the Concept Paper receiving a “discouraged” determination or the Concept Paper could be found to be ineligible.
- Concept Papers must be submitted by 3/16/2022, 5 p.m. ET, through the EERE Funding Opportunity Exchange
- EERE provides applicants with: (1) an “encouraged” or “discouraged” notification, and (2) the reviewer comments

# Concept Paper Review

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## Concept Paper Criterion: Overall FOA Responsiveness and Viability of the Project (Weight: 100%)

This criterion involves consideration of the following factors:

- The applicant clearly describes the proposed technology, describes how the technology is unique and innovative, and how the technology will advance the current state of the art;
- The applicant has identified risks and challenges, including possible mitigation strategies, and has shown the impact that EERE funding and the proposed project would have on the relevant field and application;
- The applicant has the qualifications, experience, capabilities and other resources necessary to complete the proposed project; and
- The proposed work, if successfully accomplished, would clearly meet the objectives as stated in the FOA.

# Full Applications

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The Full Application includes:

- **Technical Volume:** The key technical submission - info relating to the technical content, project team members, etc.
- **Resumes**
- **Letters of Commitment:** Submit letters of commitment from all subrecipient and third party cost share providers.
- **SF-424 Application for Federal Assistance:** The formal application signed by the authorized representative of the applicant.
- **SF-424A Budget & Budget Justification Workbook:** a detailed budget and spend plan for the project.
- **Summary/Abstract for Public Release**
- **Summary Slide**
- **Administrative Documents:** E.g., U.S. Manufacturing Plan; FFRDC Authorization (if applicable); Disclosure of Lobbying Activities; Diversity, Equity, and Inclusion Plan, etc.

# Full Applications: Technical Volume Content

Topic Area Number	Topic Area Title	Page Limit
1	Concentrating Solar Thermal for Industrial Decarbonization	15
2	Concentrating Solar-thermal Particle Technologies for Generation 3 CSP and Beyond (Gen3++)	15

Content of Technical Volume	Suggested % of Technical Volume
Cover Page	
Project Overview	10%
Technical Description, Innovation and Impact	30%
Summary Statement of Project Objectives	40%
Technical Qualifications and Resources	20%
Appendices	Letters of commitment, 1-page resumes, References

# Full Application Eligibility Requirements

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- Applicants must submit a Full Application by 5/16/2022
- Full Applications are eligible for review if:
  - The Applicant is an eligible entity ([Section III.A of FOA](#));
  - The Applicant submitted an eligible Concept Paper;
  - The Cost Share requirement is satisfied ([Section III.B of FOA](#));
  - The Full Application is compliant ([Section III.C of FOA](#)); and
  - The proposed project is responsive to the FOA ([Section III.D of FOA](#))
  - The Full Application meets any other eligibility requirements listed in [Section III of the FOA](#).

# Who is Eligible to Apply?

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## Eligible Applicants for this FOA include:

1. U.S. citizens and lawful U.S. permanent residents
2. For-profit entities
3. Educational institutions
4. Nonprofits
5. State, local, and tribal government entities
6. DOE/National Nuclear Security Administration (NNSA)/Federally Funded Research and Development Centers (FFRDCs)

### Note:

- The scope of work performed by the prime recipient shall not be less than the scope of work performed by the subrecipients who are ineligible to be prime applicants, as measured by the total project costs.
- Nonprofit organizations described in Section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995, are not eligible to apply for funding.
- Prime Recipients must be incorporated (or otherwise formed) under the laws of a State or territory of the United States and have a physical location for business operations in the United States.
- For more detail about eligible applicants, please see [Section III.A](#) of the FOA [energy.gov/solar-office](https://energy.gov/solar-office)

# Multiple Applications

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- **All Topic Areas:** An entity may submit more than one Concept Paper and Full Application to this FOA, provided that each application describes a unique, scientifically distinct project and provided that an eligible Concept Paper was submitted for each Full Application.

# Merit Review and Selection Process (Full Applications)

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- The Merit Review process consists of multiple phases that each include an eligibility review and a thorough technical review
- Rigorous technical reviews are conducted by reviewers that are experts in the subject matter of the FOA
- Ultimately, the Selection Official considers the recommendations of the reviewers, along with other considerations such as program policy factors, to make the selection decisions

# Technical Merit Review Criteria

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## Criterion 1: Technical Merit, Innovation and Impact (45%)

- The project is innovative and impactful, assuming the stated outcomes can be achieved as written. The project is differentiated with respect to existing commercial products, solutions, or technologies. If successful, the project is scalable to have a broader impact and maintained at a sufficiently large scale after project completion. If and as applicable, the project offers broad and open access to its major data and software code products.

# Technical Merit Review Criteria

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## Criterion 2: Quality and Likelihood of Completion of Stated Goals (30%)

- The application demonstrates an understanding and appreciation of project risks and challenges the proposed work will face and incorporates reasonable assumptions related to the execution of the project (i.e. market size, customer participation, costs, speed of proposed scale-up or adoption). The information included for the project is validated through customer trials, data from prior work, report references, technical baselines established, etc. The stated goals of the project are SMART (Specific, Measurable, Achievable, Relevant, and Timely) and likely to be accomplished within the scope of this project. The proposed budget is reasonable to achieve the objectives proposed.

# Technical Merit Review Criteria

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## Criterion 3: Capability and Resources of the Applicant/Project Team (15%)

- The team is well qualified and has the capability and resources necessary to successfully complete the project. The team (including proposed subrecipients) have the training and experience to achieve the final results on time and to specification. The project team is fully assembled and committed to the project (verified through letters of support) and has a demonstrated record of successful past performance.

# Technical Merit Review Criteria

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## Criterion 4: Diversity, Equity, and Inclusion (10%)

- This criterion involves consideration of the quality and manner in which the measures incorporate diversity, equity and inclusion goals in the project; and the extent to which the project benefits underserved communities.

# Replies to Reviewer Comments

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- EERE provides applicants with reviewer comments
- Applicants are not required to submit a Reply - it is optional
- To be considered by EERE, a Reply must be submitted by 7/01/2022, 5 p.m. ET and submitted through the EERE Funding Opportunity Exchange
- Content and form requirements:

Section	Page Limit	Description
Text	2 pages max	Applicants may respond to one or more reviewer comments or supplement their Full Application.
Optional	1 page max	Applicants may use this page however they wish; text, graphs, charts, or other data to respond to reviewer comments or supplement their Full Application are acceptable.

# Pre-Selection Interviews

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- EERE may invite one or more applicants to participate in Pre-Selection Interviews
- All interviews will be conducted in the same format
- EERE will not reimburse applicants for travel and other expenses relating to the Pre-Selection Interviews, nor will these costs be eligible for reimbursement as pre-award costs
- Participation in Pre-Selection Interviews with EERE does not signify that applicants have been selected for award negotiations

# Selection Factors

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The Selection Official may consider the merit review recommendation, program policy factors, and the amount of funds available in arriving at selections for this FOA

# Program Policy Factors

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- The degree to which the proposed project, including proposed cost share, optimizes the use of available EERE funding to achieve programmatic objectives;
- The level of industry involvement and demonstrated ability to accelerate commercialization and overcome key market barriers;
- The degree to which the proposed project is likely to lead to increased employment and manufacturing in the United States;
- The degree to which the proposed project will accelerate transformational technological advances in areas that industry by itself is not likely to undertake because of technical and financial uncertainty;
- The degree to which the proposed project exhibits technological or programmatic diversity when compared to the existing DOE project portfolio and other projects selected from the subject FOA;

# Program Policy Factors (Contd.)

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- The degree to which the proposed project incorporates diversity, equity, and inclusion elements, including but not limited to team members from Minority Serving Institutions (e.g. Historically Black Colleges and Universities (HBCUs)/Other Minority Institutions), Minority Business Enterprises, Minority Owned Businesses, Woman Owned Businesses, Veteran Owned Businesses, or members within underserved communities.; and
- The degree to which the proposed project, or group of projects, represent a desired geographic distribution (considering past awards and current applications).
- The degree to which the proposed project avoids duplication/overlap with other publicly or privately funded work.
- The degree to which the proposed project enables new and expanding market segments.
- The degree to which the project's solution or strategy will maximize deployment or replication.
- The degree to which the project promotes increased coordination with nongovernmental entities for demonstration of technologies and research applications to facilitate technology transfer.

# Registration Requirements

- To apply to this FOA, Applicants must register with and submit application materials through the EERE Funding Opportunity Exchange: <https://eere-exchange.energy.gov/>
- Obtain a “control number” at least 24 hours before the first submission deadline at <https://eere-exchange.energy.gov/>
- Although not required to submit an Application, the following registrations must be complete to receive an award under this FOA:

Registration Requirement	Website
DUNS Number	<a href="http://fedgov.dnb.com/webform">http://fedgov.dnb.com/webform</a>
SAM	<a href="https://www.sam.gov">https://www.sam.gov</a>
FedConnect	<a href="https://www.fedconnect.net">https://www.fedconnect.net</a>
Grants.gov	<a href="http://www.grants.gov">http://www.grants.gov</a>

# Means of Submission

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- Concept Papers, Full Applications, and Replies to Reviewer Comments must be submitted through the EERE Funding Opportunity Exchange at <https://eere-exchange.energy.gov/>  
EERE will not review or consider applications submitted through other means
- For User Guides and training on how to use the EERE Funding Opportunity Exchange, click the [Manuals](#) link on the main page

# Key Submission Points

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- Check entries in the EERE Funding Opportunity Exchange
  - Submissions could be deemed ineligible due to an incorrect entry
- EERE strongly encourages Applicants to submit 1-2 days prior to the deadline to allow for full upload of application documents and to avoid any potential technical glitches with the EERE Funding Opportunity Exchange
- Make sure you hit the “**Submit**” button
  - Any changes made after you hit submit will un-submit your application and you will need to hit the “Submit” button again
- For your records, print out the EERE Funding Opportunity Exchange Confirmation page at each step, which contains the application’s Control Number

# Applicant Points-of-Contact

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- Applicants must designate a Technical and Business point-of-contact in the EERE Funding Opportunity Exchange with whom EERE will communicate to conduct award negotiations
- It is imperative that the Applicant/Selectee be responsive during award negotiations and meet negotiation deadlines
  - Failure to do so may result in cancellation of further award negotiations and rescission of the Selection

# Questions

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- Questions about this FOA? Email [CSPFOA22@ee.doe.gov](mailto:CSPFOA22@ee.doe.gov)
  - All Q&As related to this FOA will be posted in the EERE Funding Opportunity Exchange
  - To view Q&As, select your FOA from the opportunities page. You will see “FOA Q&A” in the DOCUMENTS section
  - EERE will attempt to respond to a question within 3 business days, unless a similar Q&A is already posted on the website
- Problems logging into or uploading and submitting application documents within the EERE Funding Opportunity Exchange? Email [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov)
  - Include FOA name and number in subject line
- All questions asked during this presentation will be posted in the EERE Funding Opportunity Exchange