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OFFICE OF MANUFACTURING AND ENERGY SUPPLY CHAINS

DOE Heat Pump Defense Production Act Program

DE-FOA-0002987

**Funding Opportunity Announcement
Webinar**

February 21, 2024

This WebEx call is being recorded and may be posted on DOE's website or used internally.





Presenter: Jeff Cullen

Program Manager, Defense Production Act Program
Office of Manufacturing and Energy Supply Chains
Department of Energy



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Agenda

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Funding Opportunity Background

- *The Bipartisan Infrastructure Law (BIL) of 2021 and the Inflation Reduction Act (IRA) of 2022 included incentives that are expected to increase demand of electric heat pumps in retrofit and new markets but may not ensure domestic capacity of electric heat pumps.*
 - Section 30001 of the IRA appropriated \$500 million to carry out the DPA, of which \$250 million was subsequently allocated to the Department of Energy to support the growth of manufacturing needed to meet the anticipated growing demand for electric heat pumps.
- \$169,000,000 of awards were selected for Round One.
- **Round 2 Funding: \$63,000,000**
 - Competitive Grant Funding
- **Intended Recipients of Funding:**
 - Applicants looking to expand domestic production capability of efficient electric heat pump systems, components, and materials in the United States
 - 50% minimum cost share
 - \$50,000,000 maximum award

Funding Opportunity Overview

- The **DOE Heat Pump Defense Production Act Program** Funding Opportunity Announcement (FOA) encourages applicants to expand domestic production capability of efficient electric heat pump systems, components, and materials in the United States with a 50% cost share requirement.
- Increased usage of electric heat pumps will allow the United States and its allies to reduce its reliance on fossil fuels from adversaries, and thus strengthen U.S. energy security and national defense.
- Funding could help scale up U.S. heat pump heating, ventilation, and air conditioning (HVAC) and water heating (WH) manufacturing; accelerate installation of high-efficiency electric heat pumps in homes, qualified buildings, and industrial settings; and complement investment coming through other BIL and IRA provisions described earlier.



Funding Opportunity Overview

Topic Area 3

**Residential Heat Pump and
Component Production Capability**

Anticipated Award Size (Federal Share):
\$5,000,000 - \$50,000,000

Anticipated Number of Awards: 1 - 4

Topic Area 4

**Heat Pump Water Heater and
Component Production Capability**

Anticipated Award Size (Federal Share):
\$5,000,000 - \$50,000,000

Anticipated Number of Awards: 1 - 4

Topic Area 5

**All Other Heat Pump and Component
Production Capability**

Anticipated Award Size (Federal Share):
\$5,000,000 - \$50,000,000

Anticipated Number of Awards: 1 - 4

FUNDING OPPORTUNITY AVAILABLE AT: Infrastructure-Exchange
CONCEPT PAPERS DUE: March 15, 2024, at 5:00PM ET
FULL APPLICATIONS DUE: April 29, 2024, at 5:00PM ET

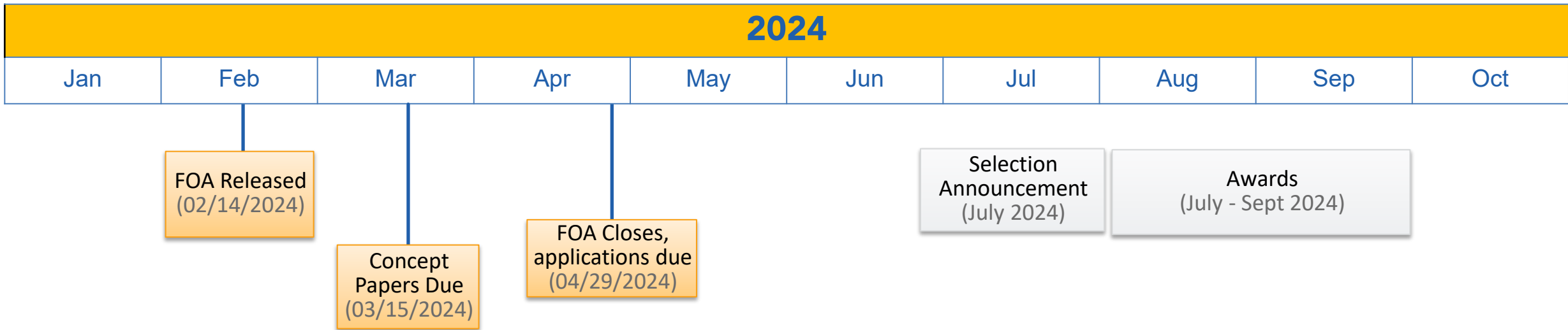
The program will also aim to:

- Expand United States electric heat pump manufacturing to reduce the amount of energy needed in our buildings, leading to less reliance by the U.S. and allies on adversaries for oil and gas.
- Strengthen heat pump system, components, and material supply chains.
- Create economic prosperity for communities, especially underserved communities, by ensuring access to federal resources.
- Support the creation of good-paying jobs.

**NOTE: For Round 2, this FOA is being re-opened to solicit applications for new Topic Areas.
Topic Areas 1 and 2 from Round 1 are now CLOSED.**



Funding Opportunity Milestones



FOA Issue Date:	02/14/2024
Submission Deadline for Concept Papers:	03/15/2024 at 5 pm ET
Timeframe for Concept Paper Encourage/Discourage Notifications:	First week of April 2024
Submission Deadline for Full Applications:	04/29/2024 at 5 pm ET
Expected Date for DOE Selection Notifications:	July 2024
Expected Timeframe for Award Negotiations:	July - Sept 2024

All timelines tentative and subject to change.



Concept Paper – Purpose

What is a Concept Paper?

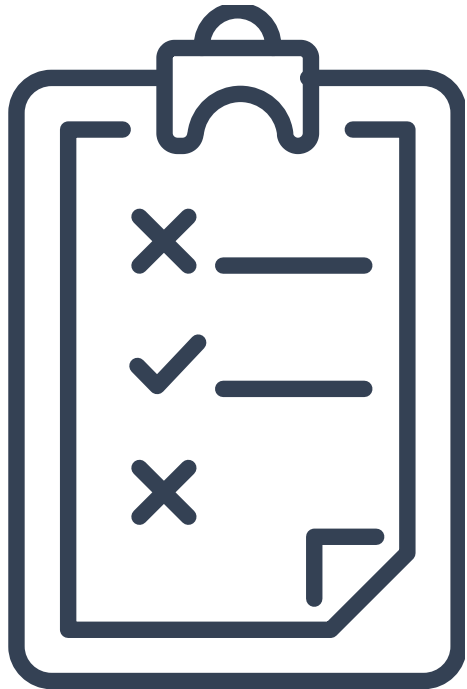
- Project Summary that describes the proposed project.
- Reduce the overall burden for both applicant submission and federal review.
- Demonstrate that the proposed idea is worthy of further consideration.
- Result in an Encourage or Discourage decision.

Receipt of a Discouragement Notification regarding a concept paper does not prohibit an organization from submitting a full application in accordance with the instructions and requirements contained within the FOA or being selected for negotiation of award.

Concept Paper Content

FOA Section IV.C.

EACH CONCEPT PAPER MUST BE LIMITED TO A SINGLE CONCEPT OR TECHNOLOGY. THE CONCEPT PAPER MUST CONFORM TO THE CONTENT IDENTIFIED WITHIN THE FOA DOCUMENT, INCLUDING THE STATED PAGE LIMITS.



Section

Page Limit

Cover Page

1 page maximum

Project Description

4 pages maximum

- Small Business Status
- Scope and Objectives
- Project Location
- Production Capacity
- Market Overview
- Domestic Supply Chain Impact
- Community Benefits Plan
- Project Impacts
- Impact of DOE Funding

Addendum

2 pages maximum

- Team Qualification
- Cost Share
- Risk Mitigation Plan

A Concept Paper Submission is required in order to submit a Full Application.



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Concept Paper Scoring Criterion

FOA Section V.A.i

Concept Papers are evaluated based on consideration of the following factors. All sub-criteria are of equal weight.

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


The Applicant clearly describes the following:

- **Small Business Participation:** The degree to which the project incorporates the participation of small businesses.
- **Supply Chain Impact:** The applicant clearly describes the project and how the produced heat pump product(s) will meet anticipated annual targeted production capability in an accelerated time frame; the relevant market; and how the proposed project is anticipated to support secure, resilient domestic clean energy supply chains for heat pumps.
- **Community Benefits Plan Approach:** The applicant clearly describes the approach planned for the four core elements.
- **Project Impact:** The applicant clearly describes what impact the proposed project is anticipated to have in meeting anticipated heat pump demand; enhancing workforce capabilities; supporting local economy and jobs – quantify where possible – and reducing greenhouse gas emissions.
- **Risk Mitigation Plan:** The applicant has identified risks and challenges of the project, as well as strategies for mitigating and managing those risks.
- **Team Qualification:** The applicant has demonstrated that it has the qualifications, experience, capabilities and other resources necessary to complete the proposed project.
- **Cost Share:** Extent and strength of cost share sources.
- **Meeting Program Goals:** The applicant clearly describes the approach on job quality and worker retention.



Infrastructure Exchange

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 Office of the Under Secretary for Infrastructure

Clean Energy Infrastructure Funding Opportunity Exchange Funding Opportunities

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CLEAN ENERGY INFRASTRUCTURE FUNDING OPPORTUNITY ANNOUNCEMENTS

🔗 Jump to a FOA:

	FOA Number	FOA Title	Announcement Type	Office	LOI Deadline	CP Deadline	FA Deadline
Funding Opportunity							
Teaming Partner List							
Funding Archive							
Questions and Answers	DE-FOA-0003223	Bipartisan Infrastructure Law (BIL) - 40125b Cybersecurity for Research, Development, and Demonstration (RD&D)	Funding Opportunity Announcement (FOA)	Cybersecurity, Energy Security, and Emergency Response (CESER)			3/18/2024 05:00 PM ET
Login	TPL-0000007	Energy Auditor Teaming Partner List	Teaming Partner List	Office of State and Community Energy Programs (SCEP)			
Register	DE-FOA-0003204	Bipartisan Infrastructure Law (BIL) 40503: Energy Auditor Training	Funding Opportunity Announcement (FOA)	Office of State and Community Energy Programs (SCEP)		3/28/2024 05:00 PM ET	6/28/2024 05:00 PM ET
User Guides	DE-FOA-0003056	Inflation Reduction Act of 2022 (IRA) Assistance for the Adoption of the Latest and Zero Building Energy Codes	Funding Opportunity Announcement (FOA)	Office of State and Community Energy Programs (SCEP)		2/9/2024 05:00 PM ET	4/30/2024 05:00 PM ET
	DE-FOA-0002986	Bipartisan Infrastructure Law (BIL) Rural and Municipal Utility Cybersecurity (RMUC) Advanced Cybersecurity Technology Funding Opportunity Announcement (ACT FOA)	Funding Opportunity Announcement (FOA)	Cybersecurity, Energy Security, and Emergency Response (CESER)		1/10/2024 05:00 PM ET	5/16/2024 05:00 PM ET
	TPL-0000004	Teaming Partner List for DE-FOA-0003099 Battery Materials Processing and Battery Manufacturing Grants	Teaming Partner List	Office of Manufacturing and Energy Supply Chains (MESC)			
	TPL-0000005	BIL - Grid Resilience and Innovative Partnerships (GRIP)	Teaming Partner List	Grid Deployment Office (GDO)			
	DE-FOA-0003099	Bipartisan Infrastructure Law (BIL) Battery Materials Processing and Battery Manufacturing Grants	Funding Opportunity Announcement (FOA)	Office of Manufacturing and Energy Supply Chains (MESC)		1/9/2024 05:00 PM ET	3/19/2024 05:00 PM ET
	DE-FOA-0003203	NOTICE OF INTENT NO. DE-FOA-0003203 TO ISSUE FUNDING OPPORTUNITY ANNOUNCEMENT NO. DE-FOA-0003204: Bipartisan Infrastructure Law (BIL); Energy Auditor Training (EAT) Program	Notice of Intent to Publish FOA (NOI)	Office of State and Community Energy Programs (SCEP)			TBD
	DE-FOA-0003195	BIL - Grid Resilience And Innovation Partnerships (GRIP)	Funding Opportunity Announcement (FOA)	Grid Deployment Office (GDO)		1/12/2024 05:00 PM ET	4/17/2024 05:00 PM ET
	DE-FOA-0003179	Notice of Intent to publish DE-FOA-0002986 titled Bipartisan Infrastructure Law (BIL) Rural and Municipal Utility Cybersecurity (RMUC) Advanced Cybersecurity Technology Funding Opp Announcement	Notice of Intent to Publish FOA (NOI)	Cybersecurity, Energy Security, and Emergency Response (CESER)			TBD

[\(http://infrastructure-exchange.energy.gov/\)](http://infrastructure-exchange.energy.gov/)



Infrastructure Exchange



Office of the Under Secretary for Infrastructure



Clean Energy Infrastructure Funding Opportunity Exchange

Funding Opportunities

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Funding Opportunity

CLEAN ENERGY INFRASTRUCTURE FUNDING OPPORTUNITY ANNOUNCEMENTS

Teaming Partner List

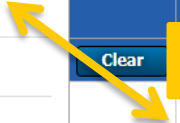
Funding Archive

Questions and Answers

Login

Jump to a FOA:

	FOA Number	FOA Title	Announcement Type	Office	LOI Deadline	CP Deadline	FA Deadline
Clear	2987						
	DE-FOA-0002987	DOE Heat Pump Defense Production Act Program	Funding Opportunity Announcement (FOA)	Office of Manufacturing and Energy Supply Chains (MESC)		5/19/2023 05:00 PM ET	8/1/2023 05:00 PM ET



Infrastructure Exchange

DE-FOA-0002987: DOE HEAT PUMP DEFENSE PRODUCTION ACT PROGRAM

The Bipartisan Infrastructure Law (BIL) of 2021 (Pub. L. 117-58), and the Inflation Reduction Act (IRA) of 2022 (Pub. L. 117-169) included several incentives that are expected to increase demand of electric heat pumps in retrofit and new markets but may not ensure domestic capacity of electric heat pumps at the speed and scale required to meet the anticipated demand. In June 2022, President Biden issued five determinations under the Defense Production Act (DPA) of 1950 (50 U.S.C. 4501 et seq.), including a presidential determination to allow DOE to use its delegated DPA authorities to expand the domestic production capability for electric heat pumps.

Apply

Section 30001 of the IRA appropriated \$500 million to carry out the DPA, of which \$250 million was subsequently allocated to the Department of Energy to support the growth of manufacturing needed to meet the anticipated growing demand for electric heat pumps. This funding could help scale up U.S. heating, ventilation, and air conditioning (HVAC) and water heating (WH) manufacturing; accelerate installation of high-efficiency electric heat pumps in homes, qualified buildings; and industrial settings, and complement investment coming through other BIL and IRA provisions described earlier.

Amendment 000002 - This FOA is being re-opened to solicit applications for new Topic Areas: Topic Area 3 - Residential Heat Pump Production Capability, Topic Area 4 - Heat Pump Water Heater Production Capability, Topic Area 5 - All Other Heat Pump and Component Production Capability. Complete details for how to apply are contained herein.

For the full text of the amendment, please see the "Full Funding Opportunity Announcement" document in the Announcement Documents section below.

Attention: The Clean Energy Infrastructure Exchange system is currently designed to enforce hard deadlines for Full Application submissions. The APPLY and SUBMIT buttons automatically disable at the defined submission deadlines. The intention of this design is to consistently enforce a standard deadline for all applicants. Applicants that experience issues with submissions PRIOR to the FOA Deadline: In the event that an Applicant experiences technical difficulties with a submission, the Applicant should contact the Clean Energy Infrastructure Exchange helpdesk for assistance (InfrastructureExchangeSupport@hq.doe.gov).

DOCUMENTS

- [Frequently Asked Questions](#) (Last Updated: 2/15/2024 12:45 PM ET)
- [Funding Opportunity Announcement Amendment 000002](#) (Last Updated: 2/14/2024 01:48 PM ET)

Frequently Asked Questions Document

FOA Document

APPLICATION FORMS AND TEMPLATES

The following forms and templates may be used as part of the application submission. Note that these forms and templates do not necessarily constitute all the documents required for a complete application. Please refer to the 'Application and Submission Information' of the published announcement to learn more about the required application content requirements.

[View Application Forms and Templates](#)

Additional Documents for Full Application (not needed for Concept Paper)

CONTACT INFORMATION

- InfrastructureExchangeSupport@hq.doe.gov
For all technical issues involving Clean Energy Infrastructure eXCHANGE
- FOA2987@netl.doe.gov
For questions regarding the content of this FOA

FOA Email for Question Submission

SUBMISSION DEADLINES

- Concept Paper Submission Deadline: 3/15/2024 5:00 PM ET
- Full Application Submission Deadline: 4/29/2024 5:00 PM ET



Frequently Asked Questions

- **I am interested in applying under this announcement, what are the next steps?**
 - Detailed application instructions are included in Infrastructure Exchange. Additionally, please review section IV.A, “Application Process” of the FOA.
- **Are projects that request a Federal Share of less than \$5M eligible to apply?**
 - See section II.A.i in the FOA. The “anticipated” minimum Federal award size is \$5M. Applications that request less than \$5M in Federal share are eligible to apply under this FOA.
- **Is there a way to set up a meeting with MESC to ask questions about eligibility, the application process, and the concept paper?**
 - MESC is unable to meet with applicants at this time. Detailed application instructions are included in Infrastructure Exchange. Additionally, please review section IV.A, “Application Process” of the FOA. See section III.G “Questions Regarding Eligibility” of the FOA. The DOE will not make eligibility determinations absent a full application.

Submit FOA Questions to: FOA2987@netl.doe.gov
Full FAQ Available at: <https://infrastructure-exchange.energy.gov>



Frequently Asked Questions

- **If I submitted an application previously, can I submit an application to this amendment?**
 - Yes, applicants may submit an application as long as it aligns with one of the new topic areas. However, applicants are encouraged to thoroughly review the FOA requirements to ensure compliance with the necessary criteria, including the required submission of a Concept Paper.

- **If I was selected for the first round of DPA funding, can I apply this round to get additional funds to go toward my previously selected project?**
 - Although previous applicants are allowed to apply to this funding announcement, it must be a new project and not a continuation of a project that was already selected.

- **Can an applicant switch the facility location between the Concept Paper and the Full Proposal?**
 - The FOA does not prohibit a change in location from what is identified in the concept paper phase to the full application phase. Location is not a factor in the merit review criterion for concept papers.

- **Will this funding opportunity be re-released for a third round in the future?**
 - DOE does not anticipate reopening this Funding Opportunity for a third round.

Submit FOA Questions to: FOA2987@netl.doe.gov
Full FAQ Available at: <https://infrastructure-exchange.energy.gov>



Thank You!

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