



# THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS



U.S. Department of Energy  
Funding Opportunity  
Announcement No.  
DE-FOA-0002936

## Industrial Demonstrations Program Funding Opportunity Announcement

## Disclaimer

Only publicly available information provided by DOE in Funding Opportunity Announcements (FOA) will be discussed in this webinar.

Attending this webinar and watching the recording is completely voluntary and will not impact future application selections. There are no advantages or disadvantages to the application evaluation process with respect to attending or viewing this webinar.

This document is not a rule or regulation, and the recommendations it contains may not apply to a particular situation based upon the individual facts and circumstances. If there are any inconsistencies between a specific FOA and the statements in this document or webinar, the FOA is the controlling document.

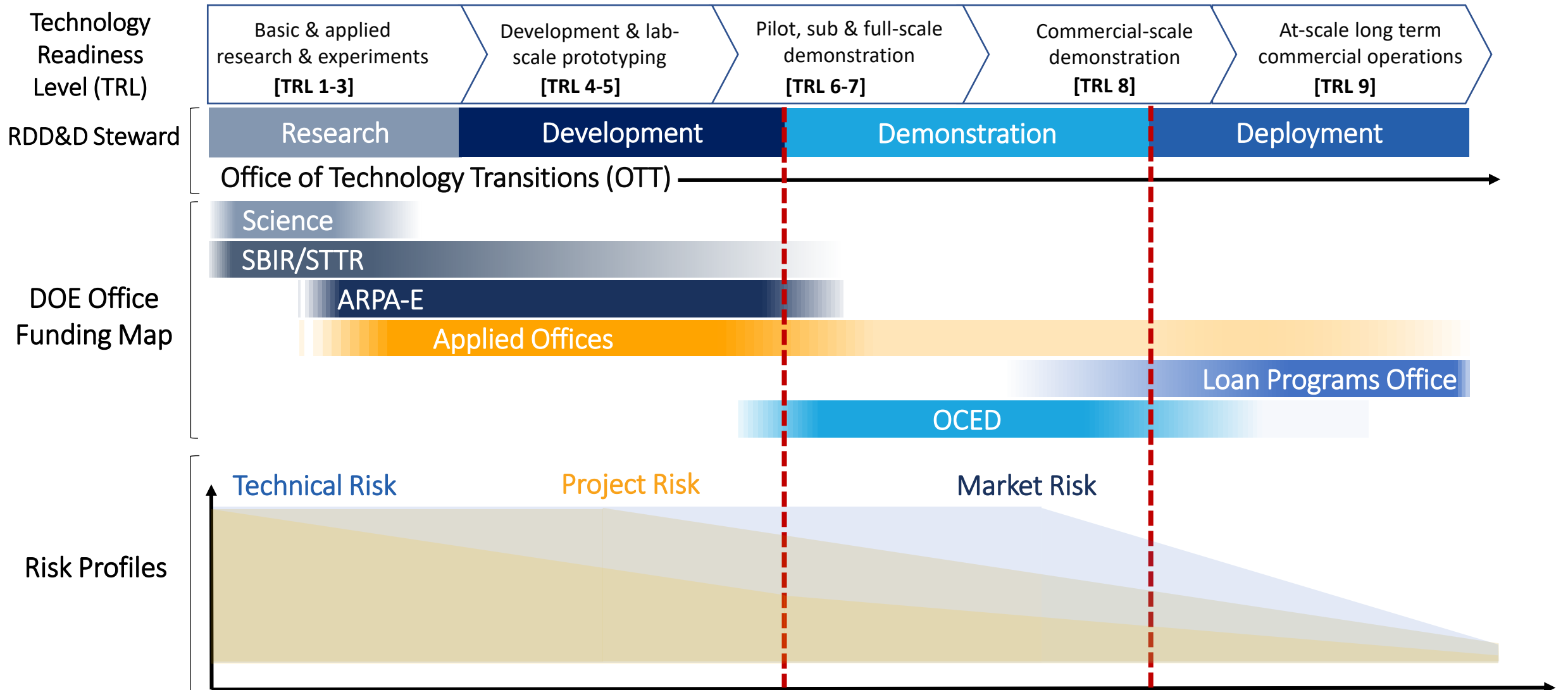


# OCED's Mission

Deliver clean energy technology **demonstration projects at scale** in partnership with the **private sector** to **accelerate deployment, market adoption**, and the **equitable transition** to a decarbonized energy system.”



# OCED's Role within the U.S. Department of Energy



# Up to **\$6 billion**

for transformational, advanced industrial facilities

- to **solidify a first-mover advantage for U.S. industry** in low- and net-zero carbon manufacturing
- to help **substantiate the market for clean products** through high-impact, replicable solutions
- to **build broadly shared prosperity** for American workers and communities



# Program Priorities

This funding opportunity is **supportive of multiple technology pathways**.

It invites industry to present its best solutions, with the following guiding priorities to maximize the transformative potential for these funds:

- **Deep decarbonization**, by demonstrating significantly less carbon-intensive industrial production processes leading to cleaner materials;
- **Timeliness**, through rapid technology demonstrations that can address emissions in the near-term, meet funding horizons, and be replicated by fast followers;
- **Market viability**, with technological approaches designed to spur follow-on investments for widespread decarbonization as well as partnerships between buyers and sellers of the materials produced; and,
- **Community benefits**, tailored through substantial engagement with local and regional stakeholders, as well as labor unions and Tribal Nations across the project lifecycle, supporting environmental justice and economic opportunity for local communities.



# DOE is seeking first- or early-of-a-kind projects that maximize the transformational potential of these funds.

This could include:

- New technologies that have been proven at a pilot scale but have yet to be deployed commercially;
- Technologies that are being pursued internationally but do not have a foothold in the U.S.; or
- Other early-of-a-kind projects that face market or adoption risks.

## Projects under this FOA should:

- Be commercial-scale or commercially relevant;
- Include a path from demonstration to deployment that includes sustained operation after completion; and,
- Have the goal of enabling widespread, non-federally funded follow-on investments after the project period.



# Program Scope *All values anticipated*

## Topic Area 1



~\$100M – \$250M federal share\*



~2 – 5 projects



Near-Net-Zero Facility Build Projects

*World-leading, first- or early-of-a-kind, full facility builds resulting in significant emissions reductions up to net-zero operations.*



8-12 years anticipated.  
No statutory funding deadline.

## Topic Area 2

~\$75M – \$500M federal share\*

~10 – 30 projects

Facility-level Large Installations and Overhaul Retrofit Demonstrations

*Large-scale overhauls for existing facilities, common technologies across multiple facilities, or new builds with accelerated planning, development, permitting, and financing strategies.*

3 – 7 years anticipated.

Projects should aim to reach Phase 3 (construction) by Sept. 30, 2026.  
Applicants should substantiate the viability of their proposed timeline.

## Topic Area 3

~\$35M – \$75M federal share\*

~10 – 30 projects

System Upgrades and Retrofits for Critical Unit Operations or Single Process Lines Within Existing Facilities

*Upgrades, retrofits, and operational improvements that target decarbonization within a unit operation or process line at an existing facility.*





## Projects will follow a four-phase structure:

Phase 1	Initial planning and analysis activities to ensure that the overall concept is technologically and financially viable.
Phase 2	Finalize engineering designs and business development, site access, labor agreements, National Environmental Policy Act (NEPA) review, permitting, and offtake agreements.
Phase 3	Installation, integration, and construction activities.
Phase 4	Ramp-up to full operations including data collection to analyze the plant's operations, performance, and financial viability.

- This FOA solicits plans for all four phases of proposed activities.
- Projects that have completed initial phases will be eligible to undergo accelerated early reviews for due diligence.
- All projects selected under this FOA will be eligible to complete all four phases pending successful execution of milestones.
- This phasing structure is consistent with OCED's consistent project management approach.



# Areas of Interest

**A special emphasis on high energy and carbon intensive processes and industries:**

- iron, steel, and steel mill products
- aluminum
- cement and concrete
- glass
- crosscutting opportunities that may address multiple facilities or sectors.
- pulp and paper
- industrial ceramics
- chemicals
- other energy intensive industrial sectors

Applications aren't limited to these industries; applicants must substantiate a project's ability to achieve priority criteria and will be judged in context of all responses.



# Eligible Applicants

DOE anticipates providing awards to teams that are led by a single, for-profit organization or owner/operator of an eligible facility, depending on topic area:

	Funding Provision	Eligible Entities for Prime Recipient
Topic Area 1	BIL 41008	For-profit organizations
Topic Area 2	IRA 50161	Owners or operators of a domestic, non-federal, non-power industrial or manufacturing facility engaged in energy-intensive industrial processes. This includes co-owners or co-operators.
Topic Area 3	IRA 50161	

DOE encourages applicants to strengthen projects by partnering with experts, universities, labor unions, community-based organizations, non-governmental organizations, product off-takers, and/or national laboratories.



# Spotlight: Demand-side Initiatives

Projects funded under this FOA should help establish the viability and competitiveness of domestically manufactured low-carbon products as global consumers look for increased transparency on carbon intensity of their goods.



**Buy Clean** prioritizes the Federal Government’s purchase of steel, concrete, asphalt, and flat glass that have lower levels of embodied GHG emissions. These four construction materials are substantially covered in the FOA and represent 98% of the government’s purchased construction materials.



**EPA’s Embodied GHG Reporting** is executing on \$350M from IRA for grants, technical assistance, and tools – including carbon labeling – to measure and report lower levels of embodied carbon.



**The Securities and Exchange Commission** has proposed a rule change that would require climate-related disclosures, including a registrant’s GHG emissions.



**The First Mover’s Coalition** includes companies using their purchasing power to create early markets for innovative clean technologies across eight hard to abate sectors. The coalition formulates purchase commitments and aggregates demand while supporting members in delivering on commitments and creating an enabling environment.



# Spotlight: Community Benefits Plan

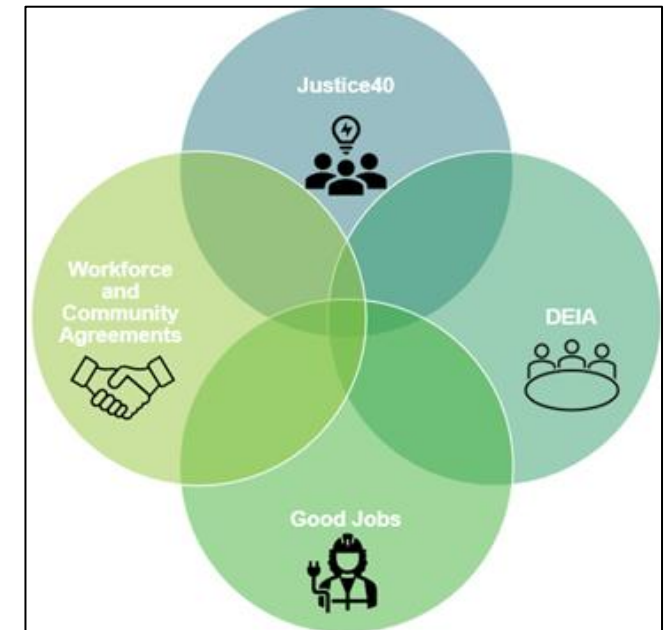
In addition to providing good jobs anchored in American communities, this FOA seeks to address pollution from the industrial sector as an integral step towards remediating social, economic, and health burdens on those disproportionately harmed by industrial sector emissions.

DOE will require a Community Benefits Plan for all applicants that will guide meaningful engagement throughout the project lifecycle.

- The Community Benefits Plan (CBP) includes four topics:
  - Community and labor engagement;
  - Workforce development and quality jobs;
  - Diversity, equity, inclusion, and accessibility; and,
  - The Justice40 initiative.

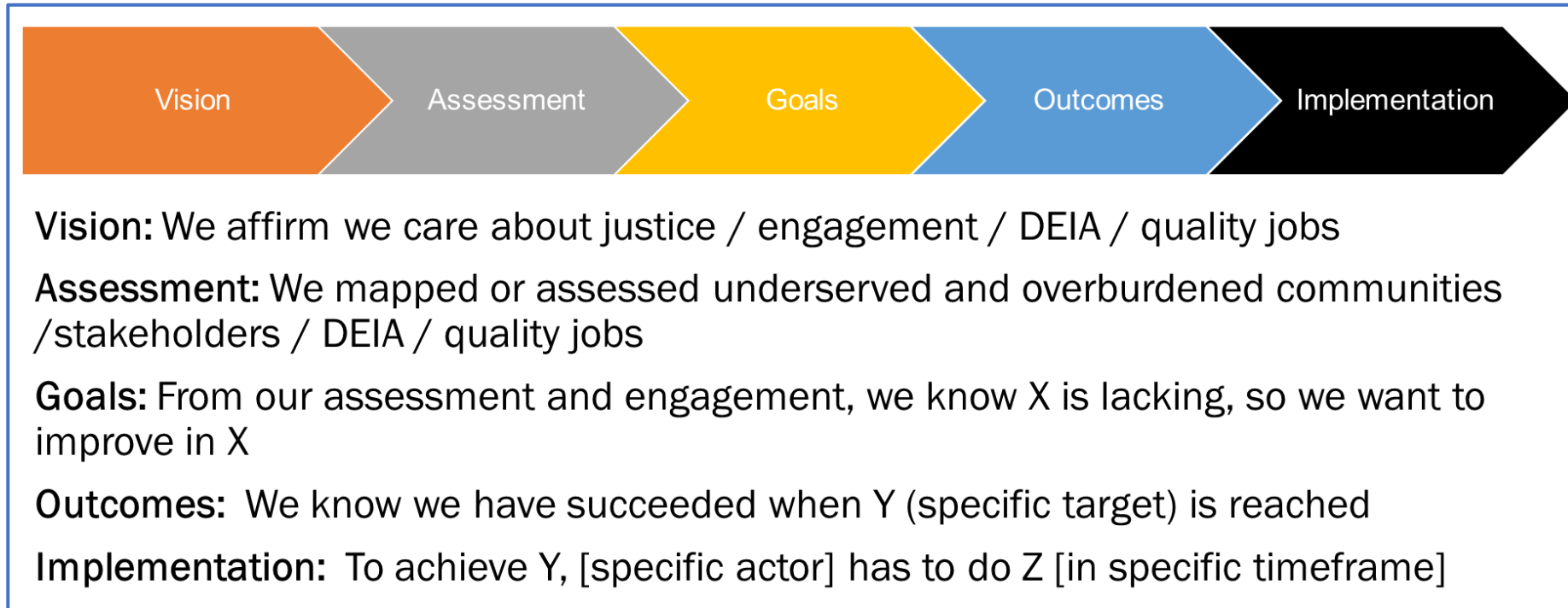
Section 50161 of the IRA\* supports this goal by giving priority to projects that support **benefit creation for the greatest number of people in nearby communities:**

- The CBP will be implemented and updated during each project phase and will be included in go / no-go decision criteria.



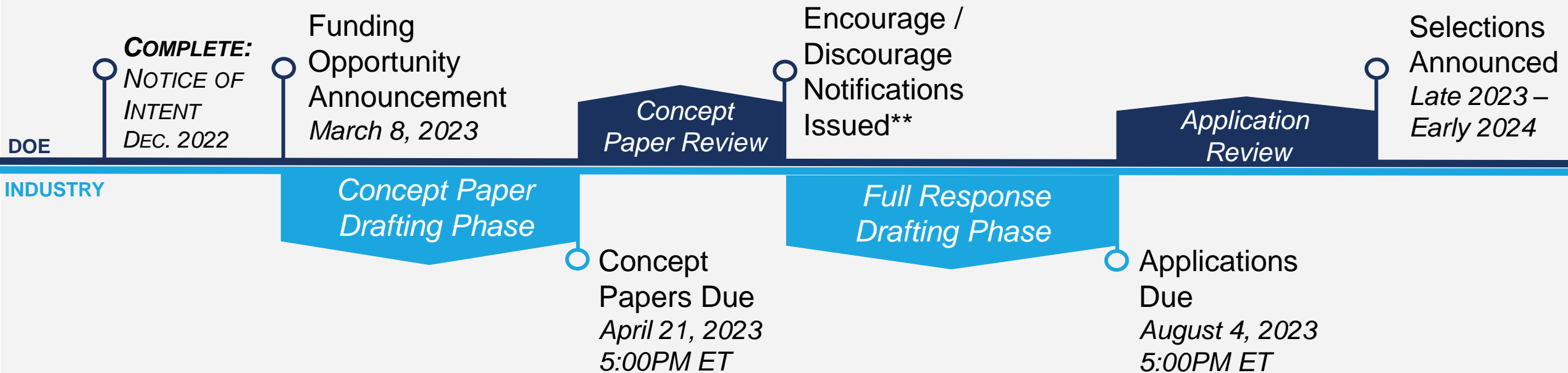
\*Section 50161(d)(2) of the Inflation Reduction Act.

# Community Benefits Overview



- Detailed guidance and examples on creating each section of the Community Benefits Plan can be found here: [energy.gov/oced/idp](https://energy.gov/oced/idp).
- Additional information on Community Benefits Plans can be found here: [www.energy.gov/clean-energy-infrastructure/community-benefits-plan-frequently-asked-questions-faqs](https://www.energy.gov/clean-energy-infrastructure/community-benefits-plan-frequently-asked-questions-faqs).
- Applicants are encouraged to read these resources prior to writing their Community Benefits Plan.

# Timeline



# Concept Papers

Applicants **must** submit an eligible concept paper to be eligible to submit an application. After concept papers are reviewed and before the application deadline, DOE will issue encourage / discourage notifications. An encourage/discourage notification does not preclude any entity that submitted a concept paper from submitting an application.

Concept papers are a maximum of 10 pages and each applicant must provide the following information as part of the concept paper:

- Cover Page (1 page maximum)
- Project Plan & Project Team Description (6 pages maximum)
- Community Benefits Plan (2 pages maximum)
- Management and Organization (1 page maximum)

Concept papers are due **April 21, 2023 at 5:00 p.m. ET.**





# FOA Q&A

- Email [OCED\\_Industrial@hq.doe.gov](mailto:OCED_Industrial@hq.doe.gov) with questions, which will be posted anonymously.
- Visit [oced-exchange.energy.gov](http://oced-exchange.energy.gov) for Q&A, which is updated daily.

## Example Questions

- **Can an applicant submit to multiple FOAs and / or the Loan Programs Office for a single project?**
  - *Yes, though federal financing, such as grants or loan guarantees from federal agencies, cannot be leveraged by applicants to provide the required cost share or to otherwise support the same scope of the award. However, other federal support may be used for activities that fall outside of the award scope/budget. See FOA sections 4.6.2.2b and section 4.6.2.13.*
- **Can a technology provider serve as a prime recipient for a proposal that involves a number of owners of eligible facilities?**
  - *A project involving multiple facilities may apply; eligible entities are "Owners or operators of a domestic, non-federal nonpower industrial or manufacturing facility engaged in energy intensive industrial processes as stated in the areas of interest," however, a co-owner or co-operator does meet the criteria. See FOA section 3.1.*



# OCED Resources

OCED Website and Newsletter:

<https://energy.gov/oced>

<https://energy.gov/oced/idp>

## Sign Up for our Newsletter and Breaking News

Subscribe and stay up-to-date on all upcoming funding opportunities, news announcements, upcoming events, and more.

Enter Email Address

GO

OCED Exchange (e.g., RFIs, NOIs, FOAs):  
<https://oced-exchange.energy.gov/Default.aspx>

*Please note, concept papers and full applications are submitted through OCED exchange.*

## OCED Funding Opportunity Exchange

Funding Opportunity

Funding Archive

Login

Register

Manuals

Questions & Answers

### New Log-in Process!

To make the sign-in process more secure, the eXCHANGE system has been updated to use Multi-Factor. Read the [OCED eXCHANGE Login Guide](#) for more information.

### OCED FUNDING OPPORTUNITY ANNOUNCEMENTS

Jump to a FOA:

FOA Number	FOA Title	Announcement Type	Program
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# Registration Checklist

[View the Funding Opportunity Announcement](#) and ensure you are registered and up-to-date with the following:

System	Purpose
<a href="#">OCED Funding Opportunity Exchange</a>	Online application portal where OCED anticipates posting this Funding Opportunity Announcement and where you can self-nominate to be a reviewer.
<a href="#">Grants.gov</a>	Registering in Grants.gov will allow you to receive automatic updates when amendments to Funding Opportunity Announcements are posted.
<a href="#">System for Award Management (SAM.gov)</a>	SAM.gov hosts the process for designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called a Marketing Partner Identification Number (MPIN), which are important steps in the process.
<a href="#">FedConnect</a>	Federal government acquisition and grants portal that is integrated with Grants.gov and SAM – register here after setting up your registration in SAM.gov.

# Thank you!

- For more information, please visit: [energy.gov/OCED](https://energy.gov/OCED)
- For questions regarding the FOA or any other information, please email: [OCED\\_Industrial@hq.doe.gov](mailto:OCED_Industrial@hq.doe.gov)
- To receive news about OCED's programs, please sign up for our newsletter: [energy.gov/oced/contact-us](https://energy.gov/oced/contact-us)