

INDUSTRIAL AND WASTE



# INVESTING IN AMERICA CLIMATE ACTION FUNDING FAIR

U.S. Environmental Protection Agency

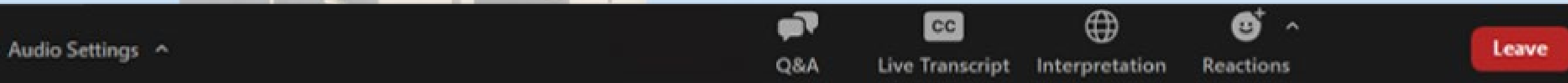
August 11, 2023

# Housekeeping



Q & A

Live Transcription



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- **Live transcription:** Automated live transcription is available by clicking the “Live Transcript” icon in your Zoom toolbar.
- **Live interpretation:** Live Spanish interpretation is available by clicking the “Interpretation” icon and selecting Spanish.
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# Housekeeping



Q & A

Live Transcription

Audio Settings ^



Q&A



Live Transcript



Interpretation



Reactions

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- Esta presentación está siendo grabada. La EPA publicará una copia de la grabación y las diapositivas de la presentación en su sitio web en un futuro próximo (<https://www.epa.gov/inflation-reduction-act/investing-america-climate-action-funding-fair>).
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# Housekeeping



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- Feel free to use the Q&A feature for any specific questions you have during the webinar.
- All participants are muted.
- Please be respectful as we are all here to learn and take away valuable insights about these funding opportunities.



# Industrial and Waste Agenda



**1. Introduction**

**2. Panel Discussion**

**3. Agency Presentations**

**4. Questions**

**5. Closing**



# Welcome Message



# Welcome Message





# Why We Are Here

What are the Climate Pollution Reduction Grants (CPRG) and how do they relate to why we're here today?







# Panel Discussion

**Moderated by Stephanie Grumet  
EPA, Senior Policy Advisor**



# Meet Our Panelists



**Stephanie Grumet**  
EPA

*Sr. Policy Advisor for Office of Air Quality Planning and Standards, OAR*



**Katie Harkless**  
DOE

*Assistant Director of the Office of Clean Energy Demonstrations*



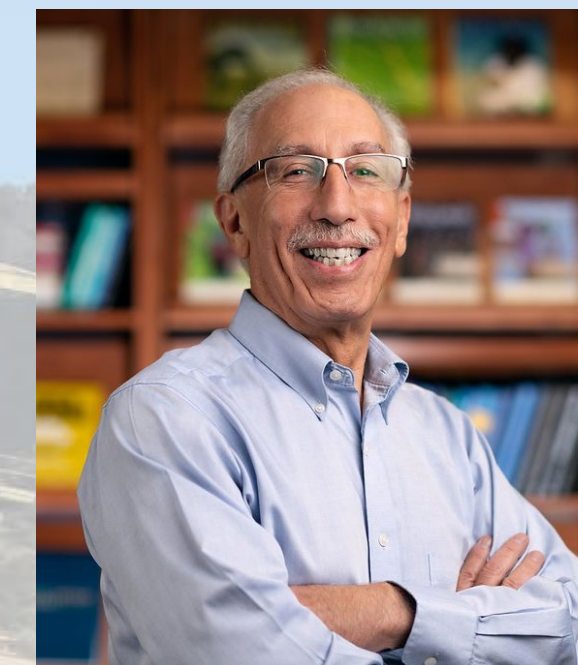
**Jennie Romer**  
EPA

*Deputy Assistant Administrator for Pollution Prevention*



**Jackie Wong**  
NRDC

*Director of the Industry and Emerging Technologies Group*



**Alan Krupnick**  
RFF

*Sr. Fellow and Director of Industry and Fuels Program*



# Federal Agency Presentations

**EPA: David Lyon**  
**DOE: Kelly Visconti**



# Methane Emissions Reduction Program

# Methane Emissions Reduction Program Overview



- Inflation Reduction Act provides new authorities under Clean Air Act Section 136 to reduce methane emissions from oil and gas
- EPA, Department of Energy (DOE) and DOE's National Energy Technology Laboratory (NETL) are partnering to provide
  - More than \$1 billion in **financial assistance** for methane monitoring and to reduce methane emissions from the oil and gas sector.
  - **Technical assistance** to help states, industry, and other partners implement solutions that reduce methane emissions.

# First Notice of Intent

- In July, EPA, DOE and NETL issued a notice of intent announcing the first in a series of funding opportunities.
- Up to **\$350 million** in formula funding to eligible state to assist industry to voluntarily identify and permanently reduce methane emissions from low-producing conventional wells.
- States also will be able to use a portion of their award for environmental restoration and to invest in their monitoring capacity for low-producing conventional wells
- Following this non-competitive solicitation, EPA and DOE intend to offer one or more additional competitive solicitations to monitor and mitigate emissions from the oil and gas sector, which will be available to a broader range of applicants.

Anticipated Funding Opportunity Announcement Later This Summer

# Registration Systems for State Applicants

- It is anticipated that States will have 30 days to apply – **important to register now**
- Register with the System for Award Management (SAM) and obtain a Unique Entity Identifier (UEI) number - <https://sam.gov/content/home>
- Register with [Grants.gov](https://www.grants.gov)
- More information on the Notice of Intent: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=349508>

# Stay Informed About the Methane Emissions Reduction Program

- Join our mailing list and stay connected – <https://www.epa.gov/inflation-reduction-act/methane-emissions-reduction-program>







**MESCC**

OFFICE OF MANUFACTURING AND ENERGY SUPPLY CHAINS

# DOE Industrial Decarbonization Programs

Kelly Visconti

Acting Deputy Director Facilities and Workforce Assistance

August 7<sup>th</sup>, 2023



# Advanced Energy Manufacturing and Recycling Grant Program (BIL 40209)



## Advanced Energy Property Projects



## Greenhouse Gas Emission Reduction Projects

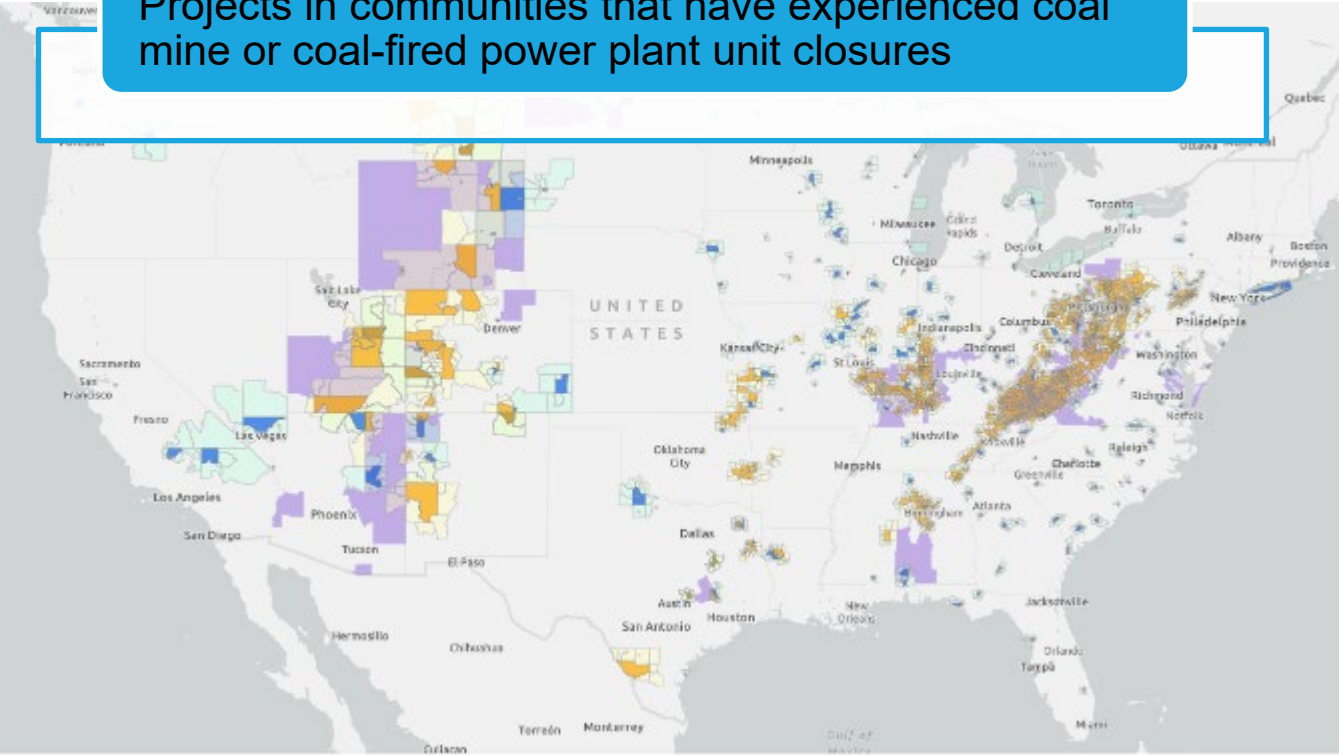
### Status and Timeline

- Round 1 FOA (\$350M) Applications Closed: 6/8/23
- Round 1 Selections: ~Fall 2023
- Release Round 2 (\$350M): TBD

\$750 Million in funding through FY2026

Benefiting small- and medium-sized manufacturing firms

Projects in communities that have experienced coal mine or coal-fired power plant unit closures



# Advanced Energy Manufacturing and Recycling Grant Program (BIL 40209)

<b>Key Dates</b>	First Round Closed; Selections Fall/Winter 2023 Second Round Funding Opportunity Announcement anticipated early 2024
<b>Amount</b>	Total Program Size: \$750M (through FY2026) Award Size: \$5M-\$100M
<b>What does the program do or fund?</b>	Re-equips an industrial or manufacturing facility with equipment designed to reduce the greenhouse gas emissions of that facility substantially below the greenhouse gas emissions under current best practices
<b>Greenhouse gas reduction eligible activities?</b>	(I) Low- or zero-carbon process heat systems; (II) Carbon capture, transport, utilization, and storage systems; (III) Technology relating to energy efficiency and reduction in waste from industrial processes; or (IV) Any other industrial technology that significantly reduces greenhouse gas emissions, as determined by the Secretary
<b>How will the programs fund greenhouse gas reduction measures? (Incrementally, match requirement, constraints, stackability, etc.)</b>	Deployment of infrastructure that will bring significant greenhouse gas reductions to energy-intensive industries that are part of clean energy supply chains
<b>Type of program (grant, tax, credit, etc.)</b>	Grant
<b>Who can apply?</b>	Small-Medium Manufacturers that are located near covered census tracts (previous coal mines, previous coal-fired powerplants, adjacent census tracts)
<b>Other key information (url, contact, etc.)</b>	URL: <a href="#">Advanced Energy Manufacturing and Recycling Grants   Department of Energy</a> Map: <a href="#">BIL Section 40209: Coal Communities</a> Email: <a href="mailto:40209Program@hq.doe.gov">40209Program@hq.doe.gov</a>



# 48C Investment Tax Credit: Overview

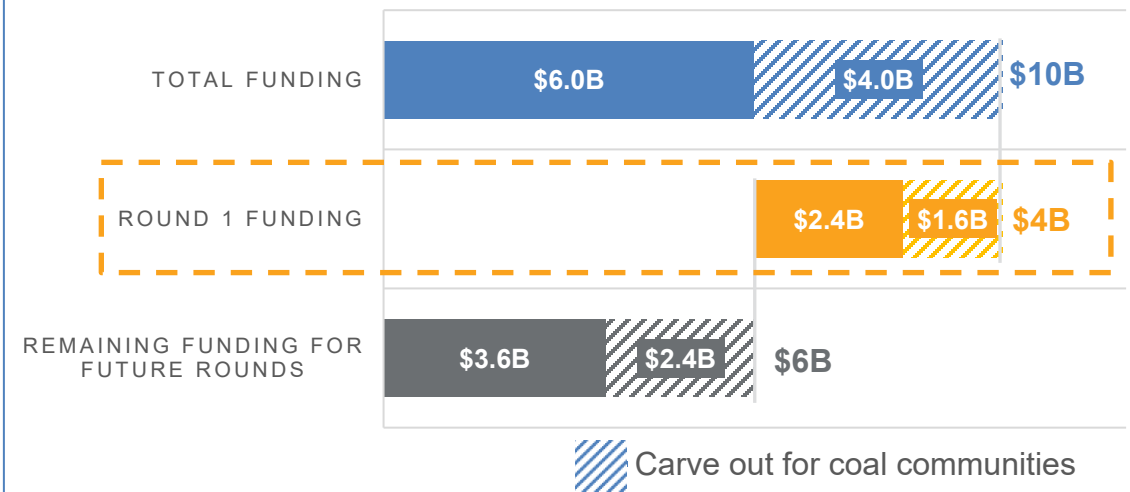
## 48C Expanded with \$10B in Funding

- Competitively-awarded **Investment Tax Credit (ITC)** first established by the 2009 Recovery Act
- **Expanded by IRA with \$10B** for
  1. clean energy manufacturing/recycling
  2. critical materials
  3. industrial GHG emissions reductions projects
- DOE will **accept a first round of applications in 2023** to allocate up to \$4B of the program's \$10B total, with additional application rounds in the future
- Selected projects receive a **30% ITC** (6% if apprenticeship and prevailing wage requirements are not met)
- In certain circumstances, **applicable entities can elect for direct pay** in lieu of a tax credit

## Key Considerations for Round 1

- Open to **all project sizes** and DOE will not predetermine funding allocated to each category
- At least **40% of credits will be allocated to projects in energy communities**, if sufficient meritorious applications are received

### 48C FUNDING CARVE-OUT FOR COAL COMMUNITIES



# 48C: Helpful Links and Timeline

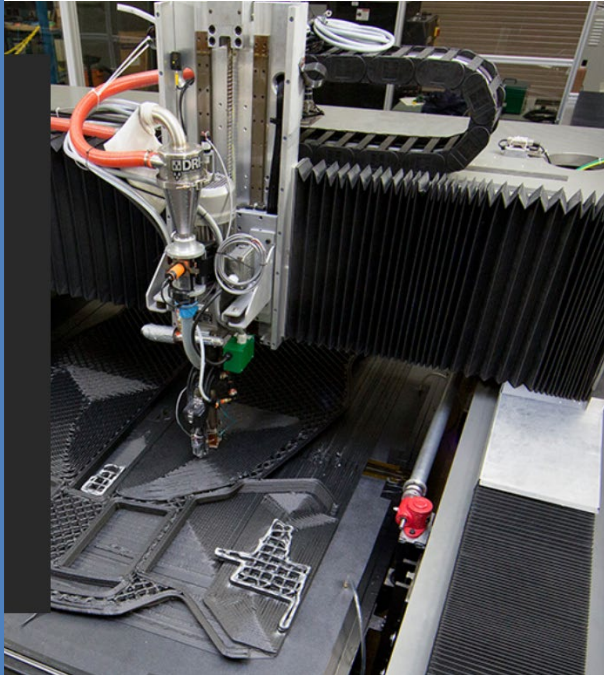
## Timeline and Review

Notice Released:  
May 31

Informational  
Webinar: June 27

Concept Papers  
Due: Aug 3

Full Applications  
Due: Fall 2023



May 31, 2023 IRS Notice

<https://www.irs.gov/pub/irs-drop/n-23-44.pdf>

DOE 48C overview & FAQs

<https://www.energy.gov/infrastructure/qualifying-advanced-energy-project-credit-48c-tax-credit-program>

48C eXCHANGE web portal

<https://48c-exchange.energy.gov>

- Non-tax questions of this notice email: [48CQuestions@hq.doe.gov](mailto:48CQuestions@hq.doe.gov)
- For applicant registration and/or submission related questions email [InfrastructureExchangeSupport@hq.doe.gov](mailto:InfrastructureExchangeSupport@hq.doe.gov)



**MESC**  
OFFICE OF MANUFACTURING AND ENERGY SUPPLY CHAINS

# 48C Investment Tax Credits




<b>Key Dates</b>	Concept papers due August 3 <sup>rd</sup> , 2023 at 12pm ET
<b>Amount</b>	Program Size: \$10B total (\$4B in Round 1) Award Size: 30% ITC (6% if prevailing wage and apprenticeship requirements are not met). There is no limit or maximum credit per project specified for round 1 allocations
<b>What does the program do or fund?</b>	<ul style="list-style-type: none"> <li>• Clean energy manufacturing and recycling projects</li> <li>• Industrial greenhouse gas (GHG) emission reduction projects</li> <li>• Critical material projects</li> </ul>
<b>Greenhouse gas reduction eligible activities?</b>	<p>The industrial GHG emission reduction project category includes projects that re-equip an industrial or manufacturing facility with equipment designed to reduce GHG emissions by at least 20% through the installation of one of more of the following:</p> <ul style="list-style-type: none"> <li>• low- or zero-carbon process heat systems</li> <li>• carbon capture, transport, utilization and storage systems</li> <li>• energy efficiency and reduction in waste from industrial processes</li> <li>• any other industrial technology designed to reduce GHG emissions as determined by the Secretary</li> </ul>
<b>How will the programs fund greenhouse gas reduction measures? (Incrementally, match requirement, constraints, stackability, etc.)</b>	Provides an investment tax credit for eligible qualifying advanced energy projects. Under § 48C(f), a credit shall not be allowed under this section for any qualified investment for which a credit is allowed under §§ 48, 48A, 48B, 48E, 45Q, or 45V. <a href="#">Notice 2023-44</a> further clarifies that a § 45X Facility cannot produce an eligible component for purposes of the § 45X credit if such facility includes eligible property that has been taken into account for purposes of the credit allowed under § 48C after August 16, 2022.
<b>Type of program (grant, tax, credit, etc.)</b>	Investment tax credit
<b>Who can apply?</b>	A taxpayer with a qualified investment in any of the projects described as eligible in Appendix A of IRS Notice 2023-44 may apply for a § 48C(e) allocation. Manufacturers can receive a refund for 48C ITC tax credits only if they are a tax-exempt organization (i.e., non-profit), state, municipality, the Tennessee Valley Authority, Indian Tribal government, any Alaskan Native Corporation, or any rural electric cooperative.
<b>Other key information (url, contact, etc.)</b>	<p>URL: <a href="https://www.energy.gov/infrastructure/qualifying-advanced-energy-project-credit-48c-program">https://www.energy.gov/infrastructure/qualifying-advanced-energy-project-credit-48c-program</a></p> <p>Map: <a href="https://arcgis.netl.doe.gov/portal/apps/experiencebuilder/experience/?id=a44704679a4f44a5aac122324eb00914&amp;page=home">https://arcgis.netl.doe.gov/portal/apps/experiencebuilder/experience/?id=a44704679a4f44a5aac122324eb00914&amp;page=home</a></p> <p>Email: <a href="mailto:48CQuestions@hq.doe.gov">48CQuestions@hq.doe.gov</a></p>



# Industrial Demonstrations Program

The Industrial Demonstrations Program offers up to **\$6 billion** for transformational, advanced industrial facilities that can achieve deep decarbonization in energy intensive industrial subsectors.

## Project Types

-  **Near-Net-Zero Facility Builds**
-  **Facility-level Installations and Overhaul Retrofits**
-  **System Upgrades and Retrofits for Critical Unit Operations or Single Process Lines**

## Program Priorities

- Deep decarbonization**, by demonstrating significantly less carbon-intensive industrial production processes
- 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 projects spurring follow-on investments and partnerships between buyers and sellers of materials
- Community benefits**, tailored through labor and community engagement; diversity, equity, inclusion, and accessibility; environmental justice; and opportunities for communities



6/1  
Encourage / Discourage Notifications

8/11 @ 5 p.m. ET  
Applications Due

Winter 2023/2024  
Selections Announced



**OCED**  
Office of Clean Energy Demonstrations

# Industrial Demonstrations Program (BIL 41008 and IRA 50161)

Industrial Demonstrations Program (BIL 41008 and IRA 50161)	
<b>Key Dates</b>	Full applications due Aug. 11, 2023; selections winter 2023/24
<b>Amount</b>	Program Size: ~\$6B Award Size: \$35 – 500M
<b>What does the program do or fund?</b>	First- or early-of-a-kind technology demonstrations for replicable projects that can offer deep decarbonization, timeliness, market viability, and community benefits for energy-intensive industrial subsectors
<b>Greenhouse gas reduction eligible activities?</b>	Near-net-zero facility builds; overhaul retrofits for existing industrial facilities; upgrades and retrofits for unit operations or single process lines
<b>How will the programs fund greenhouse gas reduction measures? (Incrementally, match requirement, constraints, stackability, etc.)</b>	Minimum 50/50 cost-share for projects
<b>Type of program (grant, tax, credit, etc.)</b>	Cooperative agreement (functionally a grant)
<b>Who can apply?</b>	<ul style="list-style-type: none"> <li>• For-profit organizations (BIL 41008)</li> <li>• 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 (IRA 50161)</li> </ul>
<b>Other key information (url, contact, etc.)</b>	URL: <a href="https://energy.gov/OCED/IDP">energy.gov/OCED/IDP</a> Map: N/A Email: <a href="mailto:OCED_Industrial@hq.doe.gov">OCED_Industrial@hq.doe.gov</a>







# Question & Answer Session



# Resources



## [Climate Pollution Reduction Grants](#)

## [Investing in America: Climate Action Funding Fair](#)

## [Investing in America: Climate Action Funding Resource Guide](#)



Questions? Please email [irastakeholders@epa.gov](mailto:irastakeholders@epa.gov).



# Closing Remarks

Industrial and Waste



Visit the [CPRG homepage](#) for up-to-date information

