Advanced Energy Manufacturing & Recycling Grant Program

Bipartisan Infrastructure Law Section 40209

Request for Information Webinar

Lane Dilg – US DOE
August 16. 2022
The Bipartisan Infrastructure Law (BIL) appropriates more than $62 billion to DOE to ensure the clean energy future delivers true economic prosperity to the American people by:

- Investing in American manufacturing and workers, by creating good-paying jobs with the free and fair chance to join a union and supporting effective workforce development that ensures access to these jobs and enables workers to advance in their careers

- Expanding access to energy efficiency and clean energy for families, communities, and businesses

- Delivering reliable, clean, and affordable power to more Americans

- Building the technologies of tomorrow through clean energy demonstrations
DOE Office of Manufacturing & Energy Supply Chains
Strengthen and secure manufacturing and energy supply chains to modernize the nation’s energy infrastructure and support a clean and equitable energy transition

Catalyze development of an energy sector industrial base through targeted investments in domestic clean energy supply chains and manufacturing

Engage with public and private stakeholders to collect, analyze, and share supply chain data to drive effective decision making and investment

Manage programs that bolster domestic manufacturing and workforce capabilities, with an emphasis on small and medium enterprises and energy communities

Coordinate with other US Government and DOE Offices, including the Advanced Manufacturing Office in the Office of Energy Efficiency & Renewable Energy
BIL Section 40209:
Advanced Energy Manufacturing & Recycling Grants Program

- Appropriations of $750 million over five fiscal years
- Grants to small- and medium-sized manufacturing firms
  - Gross annual sales of less than $100,000,000;
  - Fewer than 500 employees at the plant site of the manufacturing firm; and
  - Annual energy bills that total more than $100,000 but less than $2,500,000
- Priority to firms that are minority-owned
• Two kinds of projects:
  
  1. Establish, re-equip, or expand facilities to produce or recycle clean energy property (“Clean Energy Property Projects”)
  
  2. Re-equip existing industrial or manufacturing facilities with equipment designed to reduce the greenhouse gas emissions of a facility substantially below greenhouse gas emissions under current best practices (“Greenhouse Gas Emission Reduction Projects”)
  
BIL Section 40209:  
Advanced Energy Manufacturing & Recycling Grants Program
Projects must be carried out in communities that have experienced the closure of a coal mine after December 31, 1999, or the retirement of a coal-fired power plant unit after December 31, 2009.

Impacts:

- Catalyze economic revitalization, create high-quality jobs, and invest in local infrastructure in energy communities experience economic transition.
- Support secure, resilient clean energy supply chains to ensure our economic prosperity, national security, and a net zero emissions economy by 2050
## Clean Energy Property Projects

**Establish, re-equip, or expand facilities to produce or recycle clean energy property:**

<table>
<thead>
<tr>
<th>Property to be used to produce energy from the sun, water, wind, geothermal or hydrothermal resources, enhanced geothermal systems, or other renewable resources</th>
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<td>Fuel cells, microturbines, or energy storage systems and components</td>
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<td>Electric grid modernization equipment or components</td>
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<td>Property designed for use in carbon capture, transport, removal, use, or sequestration / storage</td>
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<td>Equipment designed to refine, electrolyze, or blend any fuel, chemical, or product that is renewable or low-carbon and low-emission</td>
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<td>Property designed to produce energy conservation technologies (for residential, commercial, industrial applications)</td>
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<td>Light-, medium-, or heavy-duty electric or fuel cell vehicles, electric or fuel cell locomotives, electric or fuel cell maritime vessels, or electric or fuel cell planes; technologies, components, and materials of those vehicles, locomotives, maritime vessels, or planes; and charging or refueling infrastructure associated with those vehicles, locomotives, maritime vessels, or planes;</td>
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<td>Hybrid vehicles with a gross vehicle weight rating of not less than 14,000 pounds; and technologies, components, and materials for those vehicles</td>
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<td>Other property designed to reduce greenhouse gas emissions</td>
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## Greenhouse Gas Emission Reduction Projects

Re-equip existing industrial or manufacturing facility with equipment designed to reduce the GHG emissions of the facility substantially below emissions under current best practices

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<th>Low- or zero-carbon heat systems</th>
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<td>Carbon capture, transport, removal, utilization, and sequestration / storage</td>
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<tr>
<td>Energy efficiency and industrial waste reduction technologies</td>
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<td>Other industrial technologies that reduce greenhouse gas emissions substantially below current best practices</td>
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## Priorities & Requirements

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<th>Priorities:</th>
<th>Requirements:</th>
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<td>• Higher direct and indirect domestic job creation during the lifetime of the project</td>
<td>• Higher potential for technological innovation</td>
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<td>• Higher level of job creation in the vicinity of the project, particularly with respect to</td>
<td>• Higher potential for commercial deployment</td>
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<td>low-income communities and dislocated workers previously employed in manufacturing, coal</td>
<td>• Lower levelized cost of (i) generated or stored energy or (ii) measured reduction in energy</td>
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<td>power plants, or coal mining</td>
<td>consumption or greenhouse gas emission</td>
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<td>• Higher net impact in avoiding or reducing anthropogenic emissions of greenhouse gases</td>
<td>• Shorter project times.</td>
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<td>• Reasonable expectation of commercial viability</td>
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<td>• Projects completed within three years of receipt of grant funds</td>
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Additional BIL Program Priorities

- Support investments that expand quality jobs with the free and fair chance to join a union
- Improve job quality through the adoption of strong labor standards, increase job access, strengthen local economies, and develop a diverse workforce for the work of building and maintaining the country’s energy infrastructure and growing domestic manufacturing
- Per Build America, Buy America Act, provide priority to “use terms and conditions of Federal financial assistance awards to maximize the use of goods, products, and materials produced in, and services offered in, the United States
- Ensure that underserved and disadvantaged communities and communities that have been disproportionately impacted by major economic shifts and coal closures have access to federal resources.

https://www.energy.gov/diversity/justice40-initiative
Information collected from this RFI will be used by DOE for planning purposes, which could include developing future Funding Opportunity Announcements (FOAs). The information collected will not be published.

This is a Request for Information only. DOE will not pay for information provided under this RFI. This RFI is not accepting applications for financial assistance or financial incentives. DOE may or may not issue a Funding Opportunity Announcement based on consideration of the input received from this RFI.
**Request for Information: Purpose**

Solicit feedback on issues related to design and implementation from:

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<th>Small- and medium-sized manufacturers and recyclers</th>
<th>Minority-owned businesses</th>
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<td>Individuals involved in clean energy business planning, siting, operations, and management</td>
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<td>Academic experts</td>
<td>Research laboratories</td>
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<td>Tribes</td>
<td>State and local government entities and officials</td>
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<td></td>
<td>Regional economic development agencies</td>
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<tr>
<td>Labor unions</td>
<td>Economic development agencies</td>
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<td>Community-based organizations</td>
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Request for Information: Question Categories

Consists of 40 total questions within these categories:

- Clean Energy Property Projects
- Greenhouse Gas Emissions Reduction Projects
- Small- and Medium- sized Manufacturing Firms
- Project Finance and Commercial Viability
- Community and Labor Engagement
- Investing in the American Workforce
- Equity, Environmental, and Energy Justice
- Other
Request for Information: Response Guidelines

- Responses to this RFI must be submitted electronically to 40209Program@hq.doe.gov no later than **5:00pm (ET) on September 16, 2022**

- Responses must be provided as attachments to an email
  - Provided as Microsoft Word (.docx) or PDF
  - Limited to no more than 15 pages in length, 12-point font, 1-inch margins
  - It is recommended that attachments with file sizes exceeding 25MB be compressed (i.e., zipped) to ensure message delivery

- Only electronic responses will be accepted
Request for Information: Response Guidelines

• For ease of replying and to aid categorization of your responses, please copy and paste the RFI questions, including the question numbering, and use them as a template for your response.

• Respondents may answer as many or as few questions as they wish.

• Respondents are requested to provide the following information at the start of their response to this RFI:
  • Organization / institution / individual name
  • Organization / institution contact
  • Individual or contact's address, phone number, and e-mail address
Request for Information: Sensitive Information

- Responses received under this RFI are subject to public disclosure under the Freedom of Information Act.

- Because information received in response to this RFI may be used to structure future programs and funding opportunity announcements and/or otherwise be made available to the public, respondents are strongly advised to NOT include any information in their responses that might be considered business sensitive (e.g., commercial or financial information that is privileged or confidential), trade secrets, proprietary, or otherwise confidential.

- See RFI document for full details on providing sensitive information.
Program Website

Advanced Energy Manufacturing and Recycling Grants | Department of Energy

RFI

https://oced-exchange.energy.gov

Additional Feedback

40209Program@hq.doe.gov

Careers at MESC

https://www.energy.gov/mesc/careers-mesc

TA for Eligible Entities

www.nrel.gov/manufacturing/recycling-grant-program.html
Additional Programs of Interest

The Interagency Working Group created a centralized clearinghouse below that features billions of dollars in existing federal funding sources. This government-wide list offers easy access to Energy Communities applying to fund infrastructure, environmental remediation, job creation, and community revitalization efforts.

https://energycommunities.gov

$62 billion for the U.S. Department of Energy to deliver a more equitable clean energy future for the American people by:

- Investing in American manufacturing and workers.
- Expanding access to energy efficiency and clean energy for families, communities and businesses.
- Delivering reliable, clean, and affordable power to more Americans.
- Building the technologies of tomorrow through clean energy demonstrations.

https://www.energy.gov/bil/bipartisan-infrastructure-law-programs
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