

Advanced Energy Manufacturing & Recycling Grant Program

Bipartisan Infrastructure Law Section 40209

Request for Information Webinar



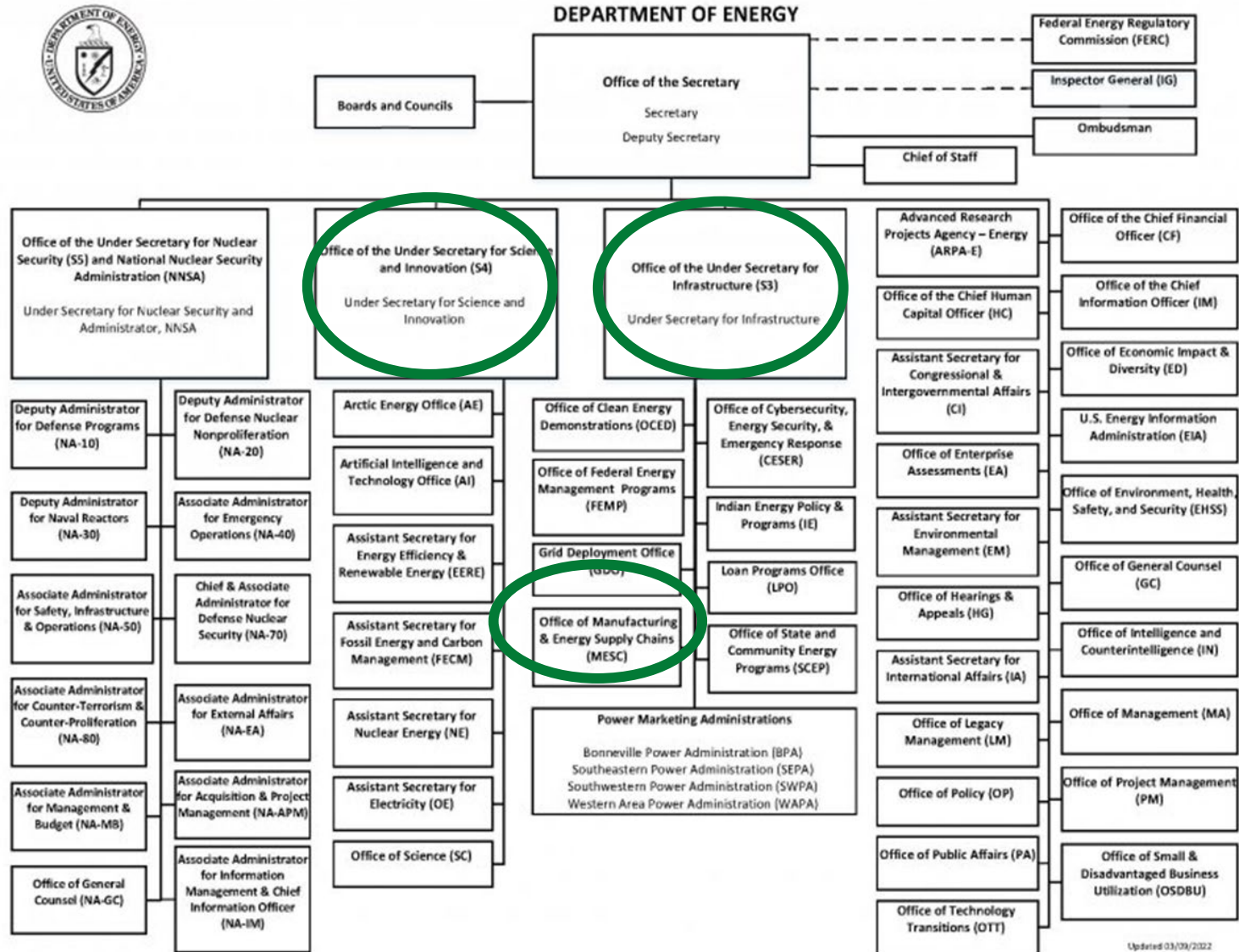
U.S. DEPARTMENT OF
ENERGY

Lane Dilg – US DOE
August 16, 2022

Infrastructure Investment & Jobs Act of 2021 (IIJA) / the Bipartisan Infrastructure Law (BIL)

- 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



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

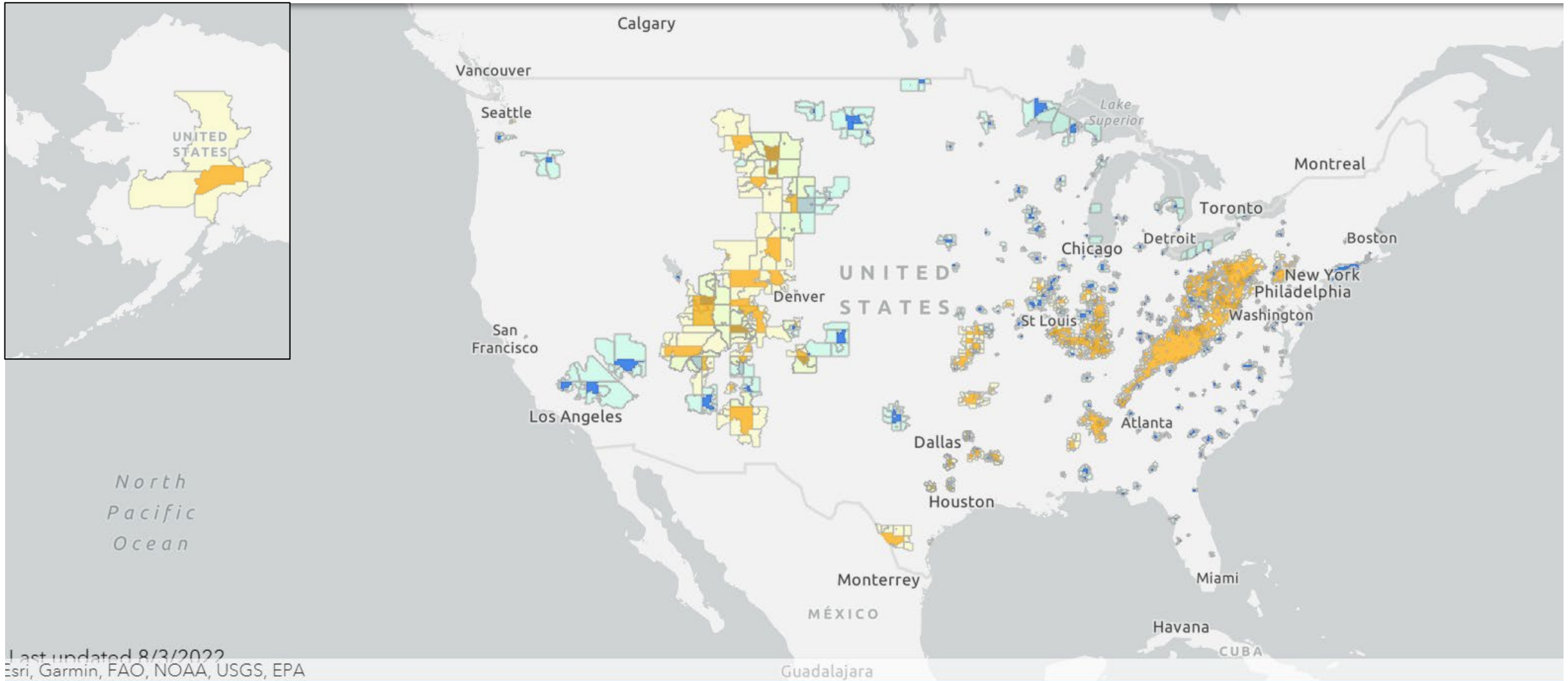
- Appropriations of \$750 million over five fiscal years
- Grants to small- and medium-sized manufacturing firms
 - Gross annual sales of less than \$100,000,000;
 - Fewer than 500 employees at the plant site of the manufacturing firm; and
 - Annual energy bills that total more than \$100,000 but less than \$2,500,000
- Priority to firms that are minority-owned

BIL Section 40209: Advanced Energy Manufacturing & Recycling Grants Program

- 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



Last updated 8/3/2022
Esri, Garmin, FAO, NOAA, USGS, EPA



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Clean Energy Property Projects

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

Property to be used to produce energy from the sun, water, wind, geothermal or hydrothermal resources, enhanced geothermal systems, or other renewable resources

Fuel cells, microturbines, or energy storage systems and components

Electric grid modernization equipment or components

Property designed for use in carbon capture, transport, removal, use, or sequestration / storage

Equipment designed to refine, electrolyze, or blend any fuel, chemical, or product that is renewable or low-carbon and low-emission

Property designed to produce energy conservation technologies (for residential, commercial, industrial applications)

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;

Hybrid vehicles with a gross vehicle weight rating of not less than 14,000 pounds; and technologies, components, and materials for those vehicles

Other property designed to reduce greenhouse gas emissions

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

Low- or zero-carbon heat systems

Carbon capture, transport, removal, utilization, and sequestration / storage

Energy efficiency and industrial waste reduction technologies

Other industrial technologies that reduce greenhouse gas emissions substantially below current best practices

Priorities & Requirements

Priorities:

- Higher direct and indirect domestic job creation during the lifetime of the project
- Higher level of job creation in the vicinity of the project, particularly with respect to low-income communities and dislocated workers previously employed in manufacturing, coal power plants, or coal mining
- Higher net impact in avoiding or reducing anthropogenic emissions of greenhouse gases

- Higher potential for technological innovation
- Higher potential for commercial deployment
- Lower levelized cost of (i) generated or stored energy or (ii) measured reduction in energy consumption or greenhouse gas emission
- Shorter project times.

Requirements:

- Reasonable expectation of commercial viability
- Projects completed within three years of receipt of grant funds

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>

Webinar Registration

Topic	Justice40 Kickoff
Description	<p>Please join Secretary Jennifer M. Granholm and Director Shalanda Baker for the Justice40 Kickoff Webinar on August 17th, from 2:00 – 3:30 pm EST. This webinar will introduce how the Department of Energy is implementing the Justice40 Initiative and feature representatives from offices across the Department of Energy highlighting their programs, including those funded by the historic Bipartisan Infrastructure Law. This webinar is free and is open to all.</p> <p>Speakers Include:</p> <p>Secretary Jennifer Granholm, Department of Energy Shalanda Baker, Director, Office of Economic Impact and Diversity Dr. Tony Reames, Deputy Director, Office of Economic Impact and Diversity Jeremiah Baumann, Chief of Staff to the Undersecretary of Infrastructure Sonrisa Lucero, Special Advisor for Stakeholder Engagement, Office of Economic Impact and Diversity Annamaria Garcia, Director, Weatherization and Intergovernmental Programs Office Nicole Steele, Program Manager, Workforce and Equitable Access - Solar Energy Technologies Office Dr. Alexis McKittrick, Program manager, Geothermal Technologies Office Margaret Smith, Technology Manager, Clean Cities, Vehicle Technologies Office Dr. Julie Carruthers, Senior Science and Technology Advisor, Office of Science, RENEW</p>



Time

Aug 17, 2022 02:00 PM in Eastern Time (US and Canada)

Request for Information

[procured-exchange.energy.gov](https://www.energy.gov/procured-exchange.energy.gov)



ADVANCED ENERGY MANUFACTURING & RECYCLING GRANT PROGRAM REQUEST FOR INFORMATION (DE-FOA-0002810)

ISSUE DATE: AUGUST 3, 2022
RESPONSES DUE: SEPTEMBER 16, 2022
SUBJECT: REQUEST FOR INFORMATION

Description

This is a Request for Information (RFI) issued by the U.S. Department of Energy's (DOE) Office of Manufacturing & Energy Supply Chains (MESC), in collaboration with DOE's Office of Energy Efficiency and Renewable Energy (EERE) Advanced Manufacturing Office (AMO). MESC, which reports to the Office of the Under Secretary for Infrastructure, manages a portfolio of annual appropriations and programs to build a secure, resilient, and diverse domestic energy sector industrial base. MESC engages with private-sector companies, other Federal agencies, and key stakeholders to collect, analyze, respond to, and share data about energy supply chains to inform future decision making and investment. This RFI seeks public input to help inform DOE's implementation of the Infrastructure Investment and Jobs Act (IIJA), also known as the Bipartisan Infrastructure Law (BIL).¹

The BIL is a once-in-a-generation public investment, designed to modernize and upgrade American infrastructure to enhance U.S. competitiveness, drive the creation of good-paying union jobs, tackle the climate crisis, and ensure stronger access to economic and environmental benefits for disadvantaged communities. BIL Section 40209² authorized appropriations of \$750 million over the five (5) year period encompassing fiscal years (FYs) 2022 through 2026 to establish the Advanced Energy Manufacturing & Recycling Grant Program (the "Program").

This Program will bolster domestic manufacturing and strengthen clean energy supply chains by enabling small- and medium-sized manufacturing firms to carry out projects to (a) produce or recycle clean energy property or (b) install equipment at existing facilities to reduce greenhouse gas emissions at those facilities substantially below current best practices.³ The Program will

¹ Public Law 117-58 (November 15, 2021).

² *Id.* at § 40209.

³ *Id.* at § 40209(a)(6), (b).

This is a Request for Information (RFI) only. DOE will not pay for information provided under this RFI and no project will be supported as a result of this RFI. This RFI is not accepting applications for financial assistance or financial incentives. DOE may or may not issue a Funding Opportunity Announcement (FOA) based on consideration of the input received from this RFI.

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.

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Request for Information: Purpose

Solicit feedback on issues related to design and implementation from:

Small- and medium-sized manufacturers and recyclers

Minority-owned businesses

Individuals involved in clean energy business planning, siting, operations, and management

Academic experts

Research laboratories

Tribes

State and local government entities and officials

Regional economic development agencies

Labor unions

Economic development agencies

Community-based organizations

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://oecd-exchange.energy.gov>

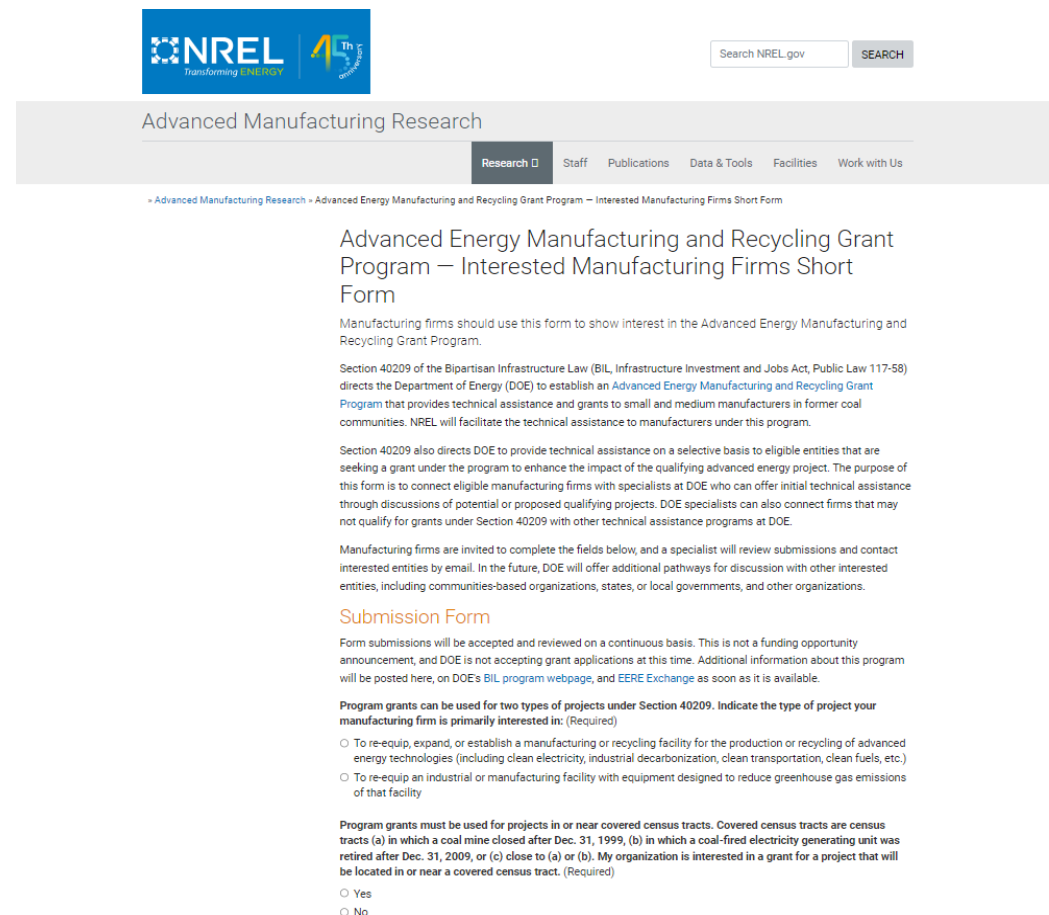
Additional Feedback

40209Program@hq.doe.gov

Careers at MESC

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

TA for Eligible Entities



The screenshot shows the NREL website header with the NREL logo and a search bar. Below the header is a navigation bar with links: Research, Staff, Publications, Data & Tools, Facilities, and Work with Us. The main content area is titled "Advanced Manufacturing Research" and contains a breadcrumb trail: "Advanced Manufacturing Research > Advanced Energy Manufacturing and Recycling Grant Program – Interested Manufacturing Firms Short Form". The main heading is "Advanced Energy Manufacturing and Recycling Grant Program – Interested Manufacturing Firms Short Form". The text explains that manufacturing firms should use this form to show interest in the Advanced Energy Manufacturing and Recycling Grant Program. It references Section 40209 of the Bipartisan Infrastructure Law (BIL, Infrastructure Investment and Jobs Act, Public Law 117-58) which directs the Department of Energy (DOE) to establish an Advanced Energy Manufacturing and Recycling Grant Program that provides technical assistance and grants to small and medium manufacturers in former coal communities. NREL will facilitate the technical assistance to manufacturers under this program. It also mentions that Section 40209 also directs DOE to provide technical assistance on a selective basis to eligible entities that are seeking a grant under the program to enhance the impact of the qualifying advanced energy project. The purpose of this form is to connect eligible manufacturing firms with specialists at DOE who can offer initial technical assistance through discussions of potential or proposed qualifying projects. DOE specialists can also connect firms that may not qualify for grants under Section 40209 with other technical assistance programs at DOE. Manufacturing firms are invited to complete the fields below, and a specialist will review submissions and contact interested entities by email. In the future, DOE will offer additional pathways for discussion with other interested entities, including communities-based organizations, states, or local governments, and other organizations. A section titled "Submission Form" explains that form submissions will be accepted and reviewed on a continuous basis. This is not a funding opportunity announcement, and DOE is not accepting grant applications at this time. Additional information about this program will be posted here, on DOE's BIL program webpage, and EERE Exchange as soon as it is available. The form also states that program grants can be used for two types of projects under Section 40209. It asks the user to indicate the type of project their manufacturing firm is primarily interested in (Required). The options are: To re-equip, expand, or establish a manufacturing or recycling facility for the production or recycling of advanced energy technologies (including clean electricity, industrial decarbonization, clean transportation, clean fuels, etc.) and To re-equip an industrial or manufacturing facility with equipment designed to reduce greenhouse gas emissions of that facility. A note states that program grants must be used for projects in or near covered census tracts. Covered census tracts are census tracts (a) in which a coal mine closed after Dec. 31, 1999, (b) in which a coal-fired electricity generating unit was retired after Dec. 31, 2009, or (c) close to (a) or (b). My organization is interested in a grant for a project that will be located in or near a covered census tract. (Required). The form has two radio buttons: Yes and No.

www.nrel.gov/manufacturing/recycling-grant-program.html

Additional Programs of Interest



Interagency Working Group on Coal & Power Plant Communities & Economic Revitalization

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>



BIPARTISAN INFRASTRUCTURE LAW

\$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>

Advanced Energy Manufacturing & Recycling Grant Program

Bipartisan Infrastructure Law Section 40209



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