



Advanced Energy Manufacturing and Recycling Grant Readiness Technical Assistance Program

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Agenda

- 1 BIL 40209 and Technical Assistance Overview**

- 2 Eligibility Requirements**

- 3 Technical Assistance Process and Important Dates**

- 4 Expectations**

- 5 Selection Criteria**

- 6 Technical Assistance Options**

- 7 Q&A and Frequently Asked Questions**

Advanced Energy Manufacturing and Recycling Grant Readiness Technical Assistance Program Overview

Bipartisan Infrastructure Law
40209

Bipartisan Infrastructure Law (BIL) 40209 Overview

- BIL § 40209, the Advanced Energy Manufacturing and Recycling Grant Program, is being managed by DOE's Office of Manufacturing and Energy Supply Chains (MESC)
- The Program Funding Opportunity Announcement (FOA) was issued in February for initial awards totaling up to \$350 million, with individual awards between \$5 million and \$100 million.
- Through this FOA, the Program will support projects by small- and medium-sized manufacturing firms (SMMs) in two topic areas:
 - Building new manufacturing or recycling facilities for the production or recycling of advanced energy property; and
 - Re-equipping or expanding manufacturing or recycling facilities for the production or recycling of advanced energy property.

Advanced Energy Property Types

Property designed to be used to produce energy from the sun, water, wind, geothermal deposits (within the meaning of 26 U.S.C. § 613 (e)(2)), or other renewable resources.

Fuel cells, microturbines, or energy storage systems and components.

Electric grid modernization equipment or components.

Property designed to capture, transport, remove, use, or sequester carbon oxide emissions.

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

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

Light-, medium-, or heavy-duty electric or fuel cell vehicles, as well as technologies, components, or materials for such vehicles, and associated charging or refueling infrastructure.

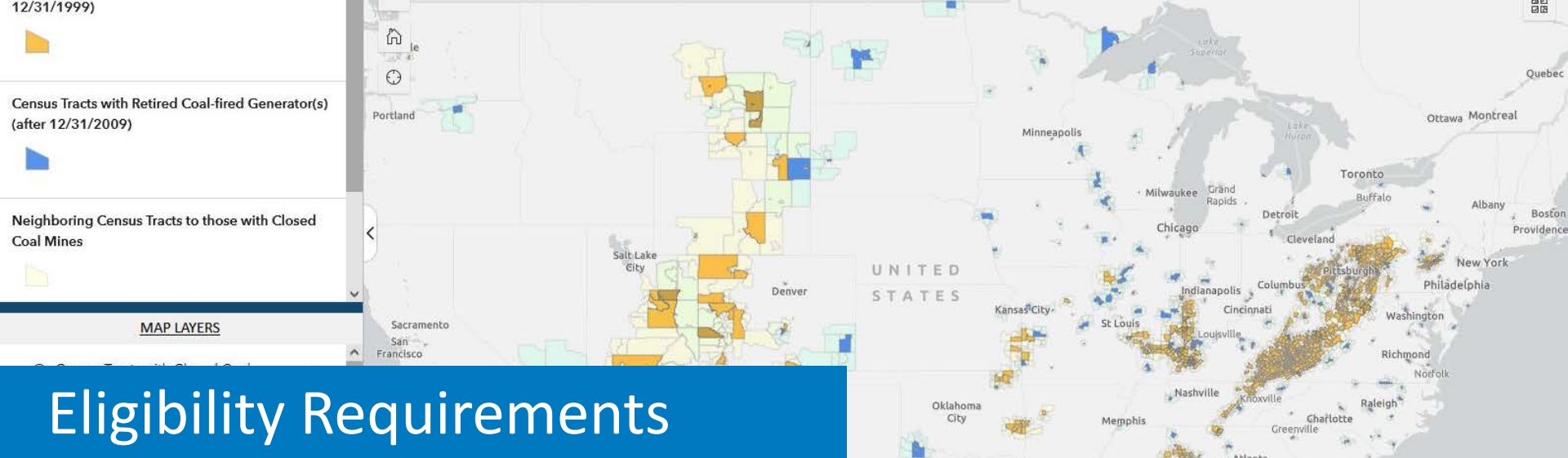
Hybrid vehicles with a gross vehicle weight rating of not less than 14,000 pounds, as well as technologies, components, or materials for such vehicles.

Other advanced energy property designed to reduce greenhouse gas emissions as may be determined by the Secretary of Energy.

Readiness Technical Assistance Overview

- BIL 40209(e) directs DOE to provide technical assistance on a selective basis to eligible entities that intend to seek grant funding under BIL 40209.
- This Readiness Technical Assistance Program is designed to help interested manufacturing firms that are eligible but not yet ready to apply for BIL 40209 prepare for the next funding round.
- Up to 15 applicants will be selected for participation in the Readiness Technical Assistance program.
- Applicants *must* meet the eligibility requirements of BIL 40209.

Eligibility Requirements



Eligibility Requirements

Applicants must be a small- or medium-sized manufacturing firm, defined by BIL 40209 as having:

- The principal business of the applicant fall within the North American Industry Classification (NAICS) codes 31-33;
- Gross annual sales of less than \$100 million;
- 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 \$2.5 million.

The proposed project must be located in a census tract:

- (a) In which a coal mine closed after December 31, 1999;
- (b) In which a coal-fired electricity generating power plant unit closed after December 31, 2009; or
- (c) Immediately adjacent to (a) or (b).

View interactive map here:

<https://arcgis.netl.doe.gov/portal/apps/experiencebuilder/experience/?id=09457c326145417595287951ed376a29>

Technical Assistance Process and Important Dates

Review Process

- A compliance review will be performed to determine whether:
 - The applicant is eligible for the program, based on the BIL 40209 eligibility criteria;
 - All required information was submitted; and
 - The proposed project meets the program objectives of BIL 40209 FOA number DE-FOA-0002907.
- All compliant applications will be assessed using standardized selection criteria.
- The U.S. Department of Energy will make all final award decisions for up to 15 awards.



Important Dates

- **Pre-award dates include:**

- An informational webinar on April 26, 2023
- The application deadline on May 26, 2023
- Selection notifications in June 2023 (est.).

- **Post-award dates include:**

- Technical assistance start in July 2023 (estimated)
- The discovery/scoping phase in July 2023
- Performance assessment in Q4 CY2023.

Expectations

What To Expect From Your Technical Assistance Team

- Readiness Technical Assistance Program participants will receive a baseline level of assistance from NREL, which includes:
 - An initial discovery and scoping period
 - Tailored scope of work
 - Progress assessment after 3 months of engagement



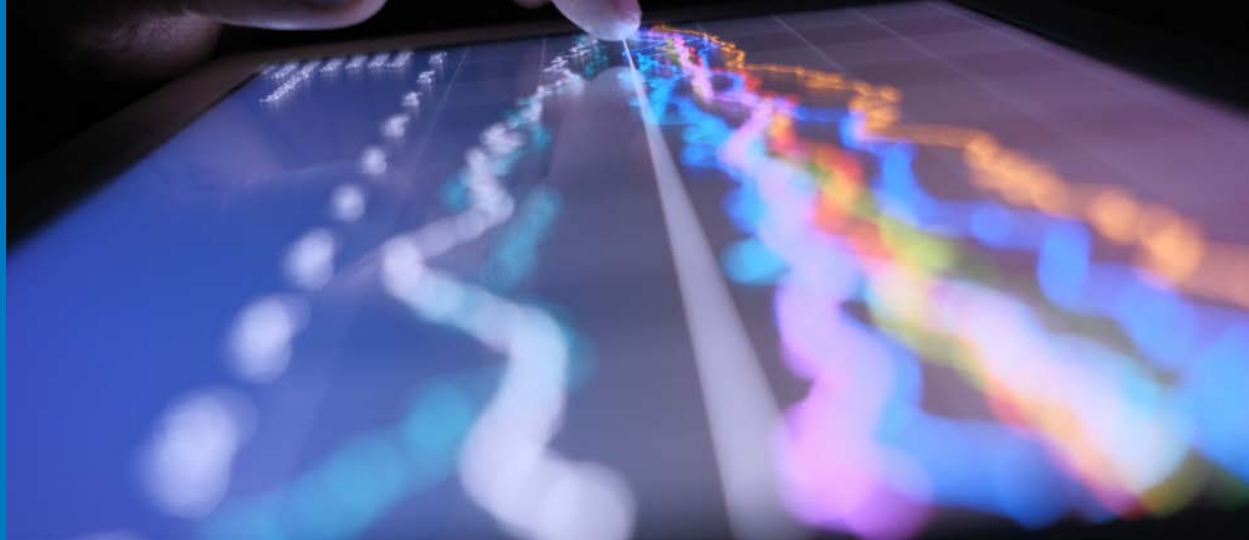
Company Expectations

- Each awardee is expected to commit to:
 - Setting agreements in place with partners that will be involved in the design, construction, installation, and financing of the proposed project.
 - Committing the appropriate staff and resources needed to meaningfully engage in the technical assistance and achieve real results.
 - Demonstrating proven engagement with the NREL team through participation in meetings, garner needed data (post-nondisclosure agreement), and show steadfast interest in reaching a common goal per the agreed-upon scope of work.
 - Articulating risk mitigation needed to achieve project goals.
 - Providing data to support future financial sustainability of the industry's business plan.
 - Ensuring the company's future needs are in alignment with the technical assistance program.



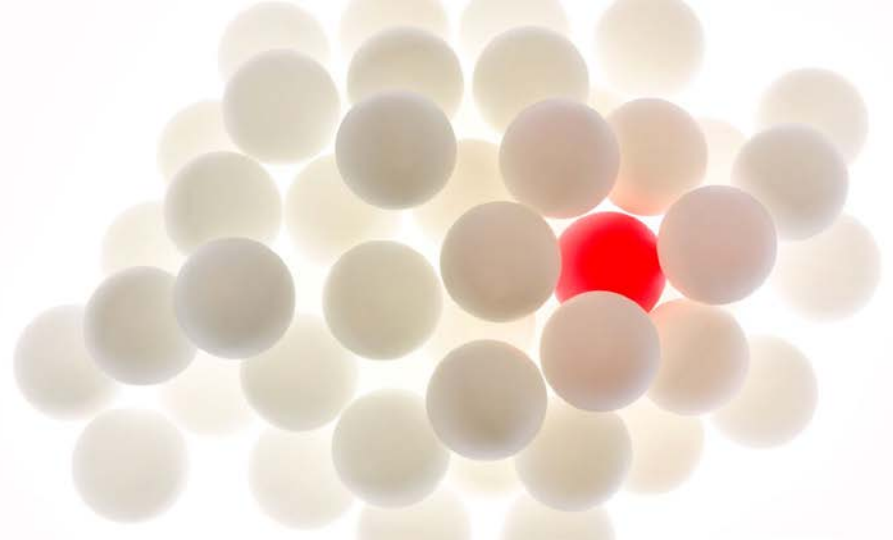
Selection Criteria

Criterion 1: Project Concept and Feasibility (25%)



- The Project or Project Idea is clearly articulated and in line with BIL Section 40209.
- The Applicant clearly demonstrates that the Project or Project Idea has been thoroughly planned and developed.
- The Project or Project Idea has undergone enough research and design to demonstrate commercial readiness.
- The Applicant presents a clear understanding of potential economic, policy, regulatory, or technology risks that would present significant barriers to completing the project as described.
- The Application adequately provides market analysis, business planning, and budget analysis that shows the Project or Project Idea can be financially feasible and sustainable.

Criterion 2: Demonstration of Need (20%)



- The Applicant has sufficiently identified why they are requesting technical assistance and potential barriers to implement the Project or Project Idea without assistance.
- The Applicant has demonstrated an ability to develop the Project or Project Idea on their own, which can be strengthened through technical assistance.

Criterion 3: Demonstration of Technological Impact (20%)

- The Project or Project Idea meets the definition of an “Advanced Energy Property Project” in that:
 - The Project or Project Idea is to build, re-equip, or expand a manufacturing or recycling facility for the production or recycling, as applicable, of advanced energy property; and
 - The types of advanced energy property are identified in BIL Section 40209 and any associated Program Funding Opportunity Announcements.
- The Project or Project Idea bolsters a high-priority supply chain needed to create an emissions-free power sector by 2035 and achieve net-zero emissions economywide by no later than 2050.
- The Project or Project Idea provides a technological approach for which the resulting impact will be beneficial to the clean energy manufacturing industry.

Criterion 4: Community Engagement and Project Impact (15%)



- The Project or Project Idea will result in measurable impact in the community, such as through direct/indirect job creation, opportunities for disadvantaged populations or displaced workers to participate in the workforce, direct community investment, etc.
- The Application identifies the potential for specific and high-quality community benefits to advance diversity, equity, inclusion, and accessibility; the Justice40 Initiative; Community and Labor Engagement initiative; and the Investing in the American Workforce initiative (as applicable) within a coal-impacted community.
- The Applicant has identified partners that would enhance the project and the manufacturers' place in the community.
- The Applicant provides verification of commitment and support from relevant decision makers or community leaders.

Criterion 5: Applicant and Project Readiness (20%)



- The Applicant demonstrates a sufficient level of planning and task-readiness to indicate technical assistance would provide gap-closing services.
- The Applicant's team members demonstrate the necessary knowledge, skills, and experience to ensure success.

Technical Assistance Options

Project Viability

- Project viability includes:
 - Conducting supply chain analyses to ensure the project is sustainable
 - Assessing operations and maintenance needs and support
 - Outlining processes for identifying cost or savings opportunities.
- Feasibility analyses includes assistance with:
 - Ensuring technical and economic viability of the project
 - Conducting market analysis and competitive intelligence, and strengths, weaknesses, opportunities, and threats analysis.
- Innovation assessments includes:
 - Analyzing the structures and functions of the advanced energy property project
 - Ensuring proof of commercial viability.

Project Improvements

- Innovation assessment includes:
 - Analyzing the structures and functions of the advanced energy property project
 - Ensuring proof of commercial viability.
- Energy efficiency includes:
 - Facilitating opportunities for evaluating possible energy or water savings or greenhouse gas emission reductions.



Project Execution

- Regulatory support includes:
 - Assistance navigating permitting and review processes, collaborating with regulatory agencies
 - Support for utility interconnection or service provision to new or redeveloped facilities (including policy review of enabling frameworks, such as the Institute of Electrical and Electronics Engineers 1547-2018).
- Procurement support includes:
 - Designing, issuing, and reviewing requests for proposals as needed for project elements
 - Identifying opportunities for minority-owned, women-owned, and service-disabled veteran-owned contractors and suppliers.
- Budgeting and financing support includes assistance with either:
 - Conducting a front-end engineering design (or FEED) study
 - Undertaking a financing due diligence review
 - Identifying additional funding opportunities.



Community Integration

- Developing a Community Benefits Plan includes assistance with:
 - Identifying and engaging stakeholders
 - Conducting community engagement
 - Developing worker and labor agreements
- Modeling community impact includes assistance with preparing information on the impact of the project's:
 - Job creation and investment goals
 - Economic development opportunities
 - Reduction of emissions in the community
- Labor and workforce development includes assistance with workforce development organizations to:
 - Match skills with training programs
 - Collaborate on engagement with the workforce
 - Connect with organized labor organizations



Questions?

Frequently Asked Questions

- Does my company have to be eligible for the grant funding to apply for this readiness technical assistance program?
- I received a discourage decision when I applied for Round 1 of the BIL Funding Opportunity Announcement. Does that mean I should apply for this technical assistance program?
- Is there any cost-share required for this technical assistance program?
- What is the limit on what we can ask for from the technical assistance offerings?
- If our project is across the street from a neighboring census tract but not directly in the tract, are we eligible?

Thank you!

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