



Advanced Energy Manufacturing & Recycling Grants Program

The Advanced Energy Manufacturing & Recycling Grant Program is a \$750 million program established by Bipartisan Infrastructure Law (BIL) Section 40209 to support manufacturing projects in communities that have experienced coal mine or coal-fired power plant closures.

The Program provide grants to small- and medium-sized manufacturers to build, expand, or re-equip facilities to produce or recycle property needed to support secure, resilient domestic clean energy supply chains. It also supports grants for manufacturers to install equipment that will substantially reduce greenhouse gas emissions manufacturing and industrial facilities.

The Advanced Energy Manufacturing and Recycling Grant Program fosters economic development in Coal Communities by prioritizing community benefits including the creation of good-paying jobs. The program also prioritizes commercial viability, technological innovation, and the reduction of greenhouse gas emissions and energy consumption.

To be eligible, small- and medium-sized manufacturers must have:

- 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 Program includes priority for minority-owned manufacturing and recycling firms.

Goals:

- Invest in communities that have experienced coal mine and coal plant closures.
- Support community development, catalyze economic revitalization, create good-paying union jobs, and support investment in local infrastructure.
- Bolster secure, resilient, and diverse energy supply chains to ensure economic prosperity and national security.
- Maximize the use of goods, products, and materials produced in, and services offered in, the United States.
- Support the Biden Administration's goal of achieving a carbon-free electric grid by 2035 and a net zero emissions economy by 2050.



Net Zero Solutions Manufactured in Coal Communities

Eligible clean energy projects include those to produce or recycle:

- Property to produce energy from the sun, water, wind, geothermal deposits, or other renewable resources;
- Fuel cells, microturbines, or energy storage systems and components;
- Electric grid modernization equipment or components;
- Property to capture, transport, remove, use, or sequester carbon oxide emissions;
- Equipment to refine, electrolyze, or blend any fuel, chemical, or product which is renewable or low-carbon and low-emission;
- Property to produce energy conservation technologies (including for residential, commercial, and industrial applications);
- 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; and technologies, components, and materials for those vehicles; and
- Other property designed to reduce greenhouse gas emissions as may be determined by the Secretary.

Greenhouse gas emission reduction grants can be used to install equipment including:

- Low- or zero-carbon heat systems;
- Carbon capture, transport, removal, utilization, and sequestration/storage;
- Energy efficiency and industrial waste reduction technologies; or
- Other industrial technology that reduces greenhouse gas emissions substantially below current best practices.

Synergies within Department of Energy

Advanced Solar Energy Manufacturing Initiative \$20M in cooperative agreements for higher ed; Federal, State, territorial, Tribal, and non-profit research or development agencies; industrial entities; consortia of these; and others; for RD&D/ commercialization of new solar energy manufacturing technologies.

Advanced Technology Vehicle Manufacturing Loan Program \$17.7B in loan authority supporting manufacture of eligible light-duty vehicles and qualifying components.

Battery Manufacturing and Recycling Grants \$3B in grants for higher ed, national laboratories, nonprofit and for-profit entities, State and local govts, and consortia of these to ensure that the U.S. has a viable domestic manufacturing and recycling capability to support a North American battery supply chain.

Clean Energy Demonstration Program on Current and Former Mine Land \$500M to demonstrate the technical and economic viability of clean energy projects on current and former mine land. One or more of: solar, microgrids, geothermal, direct air capture, fossil fueled generation with CCUS, energy storage, and advanced nuclear technologies.

Energy Improvement in Rural or Remote Areas \$1B for financial assistance to cities, towns, unincorporated areas with less than 10K inhabitants; to improve cost effectiveness of electricity generation, transmission, and distribution systems; reducing GHG emissions from generation; modernize generation facilities; microgrids; energy efficiency.

Industrial Research and Assessment Center Implementation Grants \$400M in grants to small- and medium-sized manufacturers for upgrades recommended by Industrial Assessment Center or Combined Heat and Power Technical Assistance Partnership to improve energy efficiency, material efficiency, or cybersecurity and reduce waste production, GHG emissions, or non-GHG gas pollution.

Industrial Emission Demonstration Projects \$500M for virtually anyone for demonstration projects to test and validate technologies that reduce industrial emissions and increase energy efficiency of industrial processes.

State Manufacturing Leadership Program \$50M in grants for states to invest in smart manufacturing technologies to facilitate access to high-performance computing resources for small/medium manufacturers and provide financial assistance to implement smart manufacturing technologies and practices.

Synergies with Other Federal Agencies

Abandoned Mine Land Economic Revitalization (AM-LER) Program for the six Appalachian states with highest amounts of unfunded abandoned mine land issues and the three tribes with approved reclamation programs; awards determined by States and Tribes that solicit and select projects annually.

Assistance to Coal Communities (ACC) \$33.5M for matched funds grants to assist state and local interests in designing and implementing strategies to adjust or effect change to an economy.

Coal Communities Commitment \$300M for direct support of coal communities as they recover from the COVID pandemic and help them create new jobs and opportunities, including through the creation or expansion of a new industry sector.

Qualifying Advanced Energy Project Credit Program established by the 2009 Recovery Act and expanded with a \$10 billion investment under the Inflation Reduction Act of 2022. Treasury and IRS, in partnership with DOE, announced the intent to release approximately \$4 billion in a first round of tax credits for projects that expand U.S. supply chains for clean energy technologies and critical materials for clean energy technology production, and for projects that reduce greenhouse gas emissions at industrial facilities. Approximately \$1.6 billion of this allocation will be set aside for projects in coal communities. Program provides an investment tax credit of up to 30% of qualified investments for certified projects that meet prevailing wage and apprenticeship requirements.

For more information, including technical assistance offerings for interested manufacturing and recycling firms, visit:
energy.gov/bil/advanced-energy-manufacturing-and-recycling-grants



For more information visit energy.gov/MESOC
or email: 40209program@hq.doe.gov

• March 2023