



Strengthening and Securing Energy Supply Chains

Overview

The U.S. Department of Energy's Office of Manufacturing and Energy Supply Chains (MESC) is responsible for strengthening and securing manufacturing and energy supply chains needed to modernize the nation's energy infrastructure and support a clean and equitable energy transition.

Established in 2022 as a new office under the Office of the Under Secretary for Infrastructure, MESC aims to support scale-up and deployment of the nation's manufacturing capacity through programs that are focused on establishing critical supply chain manufacturing capacity, reducing industrial base carbon emissions through manufacturing facility upgrades, developing domestic manufacturing and energy workforce capabilities and resources, and leveraging private sector investment.

With funds provided by the Bipartisan Infrastructure Law, Inflation Reduction Act, and the Defense Production Act, MESC manages \$16 billion in programs that develop clean domestic manufacturing, expand workforce capabilities, and bolster small and medium enterprises and communities in energy transition.

Facilities & Workforce Assistance



Strengthening U.S. industry and manufacturers, with a focus on assisting small- and medium-sized enterprises produce clean energy technology, improve efficiency, reduce emissions, and develop a high-skilled and equitable workforce.

Expand U.S. manufacturing and domestic supply chains

- Upgrade existing manufacturing facilities
- Build or expand small and medium sized enterprises in coal communities
- Train next generation of skilled energy professionals
- Expand industrial assessment centers
- Develop strategies to support the deployment of decarbonization and energy efficiency in industrial facilities.

Key Programs

- Advanced Energy Manufacturing & Recycling Grant Program
- Industrial Assessment Centers
- Implementation Grants for Industrial Assessment Centers
- State Manufacturing Leadership Program

Batteries & Critical Minerals



Focuses on the demonstration and deployment of new domestic manufacturing capacity for batteries, critical minerals and materials, and recycling. Critical materials are those needed for batteries and clean energy technologies such as rare-earths, platinum group metals (PGMs) and other materials deemed critical by DOE and the U.S. Geological Survey (USGS).



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Support scale-up & deployment of battery supply chain capacity

- Focus on developing a domestic battery supply chain
- Critical minerals and materials, and key battery material components
- Establish critical materials recycling and re-use ecosystem

Key Programs

- Battery Manufacturing and Recycling Grants
- Battery Material Processing Grants
- Battery and Critical Mineral Recycling - Retailers as Collection Points, and State and Local Programs
- Rare Earth Elements Demonstration Facility

Energy Sector Industrial Base

DOE defines the Energy Sector Industrial Base (ESIB) holistically to represent the energy sector and associated supply chains that include all industries, companies and stakeholders directly and indirectly involved in the energy sector.



Support scale-up & deployment of new manufacturing capacity

- Focus on analysis of critical components, devices, and systems for the energy sector
- Establish world-class energy sector industrial base mapping, modeling, and analysis tools

Key Programs

- Domestic Manufacturing Conversion Grants
- Rebates for Energy Efficient Transformers and Extended Product Systems
- Defense Production Programs - Heat Pumps
- Qualifying Advanced Energy Project Credit (48C) program (in partnership with Treasury and IRS)

Justice40

In support of President Biden's Justice40 initiative to deliver 40% of clean energy investment benefits to disadvantaged communities and those that are experiencing the impacts of climate change the worst, MESC will consistently engage with environmental justice groups, labor, and communities to help shape program development and execution.

Leadership

- David Howell, Acting Director and Principal Deputy Director
- Steven Willis, Deputy Director for Business Operations
- Zack Valdez, Chief of Staff

Let's connect!

- Get in touch with our team by emailing MESC@hq.doe.gov
- Visit us at energy.gov/mesc

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