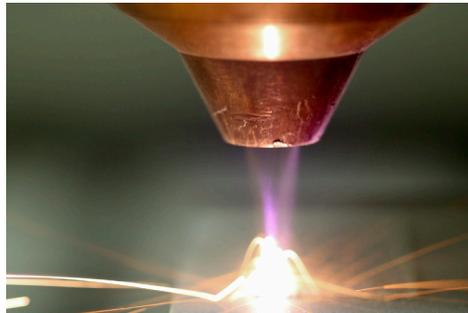


Decarbonizing the Industrial Sector



Guiding Principles

ENVIRONMENTAL JUSTICE



We will build the clean energy economy in a way that benefits ALL Americans.

DIVERSITY IN STEM



To ensure the success of clean energy industries, we will actively foster diverse STEM talent.

FOCUS ON WORKFORCE



We will strengthen the pipeline for permanent, good-paying jobs in the clean energy workforce.

STATE AND LOCAL



We will partner with state and local governments to transition to a clean energy economy.

EERE Overview

The Office of Energy Efficiency and Renewable Energy (EERE) accelerates the research, development, demonstration, and deployment of technologies and solutions to equitably transition America to net-zero greenhouse gas emissions economy-wide by no later than 2050. To lead in this transition, **EERE's FY 2022 budget request is \$4.7 billion.** The request calls for activities and programs to help decarbonize the electricity, transportation, industrial, buildings, and agriculture sectors, while training the next generation of clean energy workers; supporting state and local economies; creating new, high-quality, good paying jobs in the field; and deploying new, efficient, and clean technologies that are affordable for all Americans.

Decarbonize the Industrial Sector

EERE will identify a pathway to help electrify and improve the energy efficiency of industrial processes, use hydrogen for hard-to-decarbonize industries like steel, and seek to capture and use emissions. EERE will develop roadmaps to guide its research and development activities to reduce GHG emissions across the sector. EERE supports approaches using renewable energy and fuels such as hydrogen to power industrial processes; capture and use carbon emissions; vastly improve energy efficiency; and phase out emissions. EERE is requesting a substantial increase in funds for industrially relevant research and development of emerging zero-carbon technologies, electrification, electrochemical manufacturing, enhanced drying, direct air capture, and other opportunities for steel, cement, and chemical manufacturing.

FY 2022 Budget Highlights

EERE's FY 2022 budget request for enterprise-wide activities and programs that support the goal of decarbonizing the industrial sector totals \$799 million. Highlights include the following:

- **Industrial Decarbonization Demonstrations (\$80M)** – Supports industrially-relevant testbeds and demonstrations in energy- and carbon- intensive sectors (e.g., steel, cement, chemicals).
- **Manufacturing USA Institutes (\$42M)** – Supports a seventh Institute and establishes two additional Institutes focused on decarbonizing industrial manufacturing, reducing energy-use intensity, and increasing U.S. manufacturing competitiveness. Manufacturing USA Institutes address energy efficiency and the decarbonization of manufacturing by focusing on wide-bandgap power electronics; advanced polymer composites manufacturing; chemical process intensification; smart manufacturing; material recycling, recovery, remanufacturing, and reuse; and cybersecurity.
- **Critical Minerals (\$70M)** – Supports a new lab-industry consortium to de-risk and validate successful technology innovations for critical minerals, including testbed facilities to scale up technology solutions around identified gaps such as metal conversion or magnet manufacturing. ■

FY 2022 EERE BUDGET REQUEST BREAKDOWN (\$ IN THOUSANDS)

	FY 2020 Enacted (\$K)	FY 2021 Enacted (\$K)	FY 2022 Request (\$K)
Sustainable Transportation	805,500	805,000	1,132,500
Vehicle Technologies	396,000	400,000	595,000
Bioenergy Technologies	259,500	255,000	340,000
Hydrogen and Fuel Cell Technologies	150,000	150,000	197,500
Renewable Power	642,000	646,000	951,765
Solar Energy Technologies	280,000	280,000	386,575
Wind Energy Technologies	104,000	110,000	204,870
Water Power Technologies	148,000	150,000	196,560
Geothermal Technologies	110,000	106,000	163,760
Energy Efficiency	1,091,000	1,103,500	2,179,150
Advanced Manufacturing	395,000	396,000	550,500
Federal Energy Management Program	40,000	40,000	438,150
Building Technologies	285,000	290,000	382,000
Weatherization and Intergovernmental Programs	371,000	377,500	808,500
Corporate Support	309,500	309,500	468,585
Program Direction	165,000	165,000	250,000
Strategic Programs	14,500	14,500	43,585
Facilities and Infrastructure (NREL)	130,000	130,000	175,000
Subtotal, EERE	2,848,000	2,864,000	4,732,000
Rescission of Prior Year Balances	(58,000)	(2,240)	
Energy Program Rescission	(12,723)		
Total, EERE	\$2,777,277	\$2,861,760	\$4,732,000
Total, Decarbonizing the Industrial Sector		\$242,710*	\$798,800*

*These figures represent the amount for all activities and programs that support this decarbonization goal and do not comprise the total EERE FY21 Enacted or FY22 budget request.

**OFFICE OF
ENERGY EFFICIENCY &
RENEWABLE ENERGY**

For more information, visit:
energy.gov/eere

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