

## FY 2023 BUDGET AT-A-GLANCE

# DECARBONIZING The Industrial Sector

## Overview

The Office of Energy Efficiency and Renewable Energy (EERE) accelerates the research, development, demonstration, and deployment (RDD&D) of technologies and solutions to equitably transition America to net-zero greenhouse gas emissions economy-wide by 2050, creating good-paying jobs, and ensuring the clean energy economy benefits all Americans, especially workers and communities impacted by the energy transition and those historically underserved by the energy system and overburdened by pollution. To ensure its continued leadership in this transition, **EERE's FY 2023 budget request is for \$4 billion.**

## Decarbonizing the Industrial Sector

Industrial processes contribute significantly to domestic carbon emissions. To phase out these emissions, EERE supports approaches that substantially improve material and energy efficiency, electrify processes to take advantage of a decarbonizing electricity grid, switch to clean fuels and feedstocks, and capture and use carbon emissions. EERE's Industrial Decarbonization Roadmap will guide RDD&D activities across the Department to reduce greenhouse gas emissions across the industrial sector, with an emphasis on the highest emitting sectors (e.g., iron/steel, cement/concrete, chemicals, food production).

## FY 2023 BUDGET HIGHLIGHTS

EERE's FY 2023 budget request for enterprise-wide activities and programs for decarbonizing energy-intensive industries totals \$660 million. Highlights include:



### Guiding industrial efficiency and decarbonization.

Investments in industry-specific decarbonization R&D and demonstrations in key industries (chemicals, iron and steel, food products, and cement) and pursuing [industrial decarbonization goals](#) towards achieving net-zero greenhouse gas emissions by 2050.



### Solving key clean energy manufacturing challenges.

Investments in helping industry solve critical manufacturing challenges and develop secure, sustainable supply chains and high-performance materials that are broadly applicable to energy products and/or that reduce lifecycle energy requirements and advance manufacturing processes.



### Supporting workforce development and technical assistance.

Investments to make knowledge and transformational tools accessible across manufacturing organizations and develop a diverse future manufacturing workforce that will lower barriers to deployment for next-generation technologies.



	FY 2021 Enacted	FY 2022 Annualized CR <sup>1</sup>	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted	
				\$	%
<b>Sustainable Transportation</b>					
Vehicle Technologies	400,000	400,000	602,731	+202,731	+50.7%
Bioenergy Technologies	255,000	255,000	340,000	+85,000	+33.3%
Hydrogen and Fuel Cell Technologies	150,000	150,000	186,000	+36,000	+24.0%
<b>Renewable Power</b>					
Renewable Energy Integration	0	0	57,730	+57,730	NA
Solar Energy Technologies	280,000	280,000	534,575	+254,575	+90.9%
Wind Energy Technologies	110,000	110,000	345,390	+235,390	+214.0%
Water Power Technologies	150,000	150,000	190,500	+40,500	+27.0%
Geothermal Technologies	106,000	106,000	202,000	+96,000	+90.6%
<b>Energy Efficiency</b>					
Advanced Manufacturing	396,000	396,000	582,500	+186,500	+47.1%
Federal Energy Management Program	40,000	40,000	0	-40,000	-100.0%
Building Technologies	290,000	290,000	392,000	+102,000	+35.2%
<b>Weatherization and Intergovernmental Programs</b>					
Weatherization Assistance Program	310,000	310,000	0	-310,000	-100.0%
Training and Technical Assistance	5,000	5,000	0	-5,000	-100.0%
State Energy Program	62,500	62,500	0	-62,500	-100.0%
<b>Total, Weatherization and Intergovernmental Programs</b>	<b>377,500</b>	<b>377,500</b>	<b>0</b>	<b>-377,500</b>	<b>-100.0%</b>
<b>Corporate Support Programs</b>					
Facilities and Infrastructure (NREL)	130,000	130,000	210,100	+80,100	+61.6%
21-EE-001-Energy Materials and Processing at Scale (EMAPS)	0	0	60,000	+60,000	NA
23-EE-TBD, STM Carbon Free District Heating/Cooling	0	0	31,500	+31,500	NA
<b>Total, Facilities and Infrastructure</b>	<b>130,000</b>	<b>130,000</b>	<b>301,600</b>	<b>+171,600</b>	<b>+132.0%</b>
Program Direction	165,000	165,000	224,474	+59,474	+36.0%
Strategic Programs	14,500	14,500	59,385	+44,885	+309.6%
<b>Subtotal, EERE</b>	<b>2,864,000</b>	<b>2,864,000</b>	<b>4,018,885</b>	<b>+1,154,885</b>	<b>+40.3%</b>
<i>P.L. 116-260: Unobligated Balance Rescission</i>	-2,240	-2,240	0	0	-100%
<b>Total, EERE</b>	<b>2,861,760</b>	<b>2,861,760</b>	<b>4,018,885</b>	<b>+1,157,125</b>	<b>+40.4%</b>

<sup>1</sup> The FY 2022 Annualized CR amounts reflect the P.L. 117-95 continuing resolution level annualized to a full year.

For more information, visit: [energy.gov/eere](https://energy.gov/eere)

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