

# EERE Fiscal Year 2022 Budget Request

## 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. The majority of new investments are directly in deployments or demonstrations of technologies to show viable pathways for achieving EERE's five decarbonization goals.

### 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.

### OFFICE OF ENERGY EFFICIENCY & RENEWABLE ENERGY

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

June 2021

### Decarbonizing the Electricity Sector: \$1.9B

EERE will initiate a path to achieve a carbon pollution-free electricity sector no later than 2035, by supporting technologies that enable the United States to generate all electricity from clean, renewable sources. EERE will invest in reducing the cost of renewables and make major strides in renewables integration to ensure reliability, security, and resiliency as the grid evolves.



### Decarbonizing the Transportation Sector: \$1.7B

The transportation sector is the largest source of GHG emissions in the country. EERE will develop lower-cost technologies to transition new light-duty vehicle sales to electric vehicles, meet 100% of the nation's sustainable aviation fuel needs by 2050, and enable commercially viable hydrogen fuel cell long-haul heavy-duty trucks by 2030.



### Decarbonizing the Industrial Sector: \$799M

Industrial processes currently contribute around 23% of the nation's GHG emissions.<sup>1</sup> 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.



### Reducing the Carbon Footprint of Buildings: \$1.7B

Residential and commercial buildings combined are responsible for 36% of energy-related GHG emissions.<sup>2,3</sup> EERE will invest in reducing the carbon footprint of U.S. building stock by 2035, with a focus on the research, development, and deployment needed for new affordable housing and advanced energy efficient retrofits for buildings.



### Decarbonizing the Agricultural Sector: \$134M

Agriculture represents nearly 10% of the nation's GHG emissions.<sup>4</sup> EERE will invest in and expand its work in the agricultural sector to include developing biofuels, improving the efficiency of off-road agricultural vehicles, on-site production of animal waste to clean energy, and enhancing understanding and prediction of water flow to design more water and energy efficient irrigation systems.



### Corporate Support Programs: \$469M

EERE will prioritize investment in the Advanced Research in Integrated Energy Systems (ARIES) initiative, which focuses its research on energy storage, power electronics, hybrid systems, future energy infrastructure, and cybersecurity. EERE will take steps to convert the four remaining National Renewable Energy Laboratory Flatirons Campus facilities to net zero emissions no later than 2023.



*\*Figures above represent the EERE budget request for the activities and programs that support each decarbonization goal and do not comprise the total EERE FY22 budget request. The sum of the totals will exceed \$4.7B because many activities and programs support each decarbonization goal enterprise-wide*

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

	FY 2020 Enacted (\$K)	FY 2021 Enacted (\$K)	FY 2022 Request (\$K)
<b>Sustainable Transportation</b>	<b>805,500</b>	<b>805,000</b>	<b>1,132,500</b>
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
<b>Renewable Power</b>	<b>642,000</b>	<b>646,000</b>	<b>951,765</b>
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
<b>Energy Efficiency</b>	<b>1,091,000</b>	<b>1,103,500</b>	<b>2,179,150</b>
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
<b>Corporate Support</b>	<b>309,500</b>	<b>309,500</b>	<b>468,585</b>
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
<b>Subtotal, EERE</b>	<b>2,848,000</b>	<b>2,864,000</b>	<b>4,732,000</b>
Rescission of Prior Year Balances	(58,000)	(2,240)	
Energy Program Rescission	(12,723)		
<b>Total, EERE</b>	<b>\$2,777,277</b>	<b>\$2,861,760</b>	<b>\$4,732,000</b>

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1 U.S. Environmental Protection Agency. <https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions>

2 <https://www.eia.gov/environment/emissions/carbon/>.

3 U.S. Energy Information Administration. Annual Energy Outlook 2019 with projections to 2050. Washington, DC: U.S. Department of Energy, January 2019. <https://www.eia.gov/outlooks/archive/aeo19/pdf/aeo2019.pdf>.

4 U.S. Environmental Protection Agency. <https://www.epa.gov/sites/production/files/2021-04/documents/us-ghg-inventory-2021-main-text.pdf>