# u.s. department of ENERGY

#### Office of **ENERGY EFFICIENCY & RENEWABLE ENERGY**

## FY 2022 BUDGET AT-A-GLANCE **Decarbonizing the Transportation Sector**





#### **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 Transportation Sector by 2050

The transportation sector is the largest source of GHG emissions in the country. EERE will invest in enabling the commercial deployment of net-zero GHG technologies for all modes of transportation (road, rail, sea, and air), while ensuring affordable mobility solutions for people and goods across all economic and social groups, reducing the impact on local air quality, and using sustainable water and land practices. 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.

## FY 2022 Budget Highlights

EERE's FY 2022 budget request for enterprise-wide activities and programs that support the goal of decarbonizing the transportation sector totals \$1.7 billion. Highlights include the following:

- New Advanced Battery R&D (\$75M) Supports many significant objectives associated with • decarbonization across both the transportation and electricity sectors.
- Scale-up of Integrated Biorefineries (\$75M) Enables scale-up of low-carbon fuels through demonstration of cost-effective production pathways with an emphasis on Sustainable Aviation Fuels (SAF).
- Accelerate Demonstrations for Hard-to-Decarbonize Sectors through Systems Development and Integration (\$81M) - Increases demonstrations for medium/heavy duty trucks, energy storage (e.g., offshore wind), grid integration, and end uses. Includes clean hydrogen demonstrations for decarbonizing industry/chemicals (e.g., steel and ammonia).

## **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, goodpaying jobs in the clean energy workforce.

#### **STATE AND LOCAL**



governments to transition to a clean

with state and local

We will partner

energy economy.

#### **OFFICE OF ENERGY EFFICIENCY & RENEWABLE ENERGY**

For more information, visit: energy.gov/eere June 2021

#### 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 Transportation Sector		\$791,945*	\$1,705,300*

\*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.

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