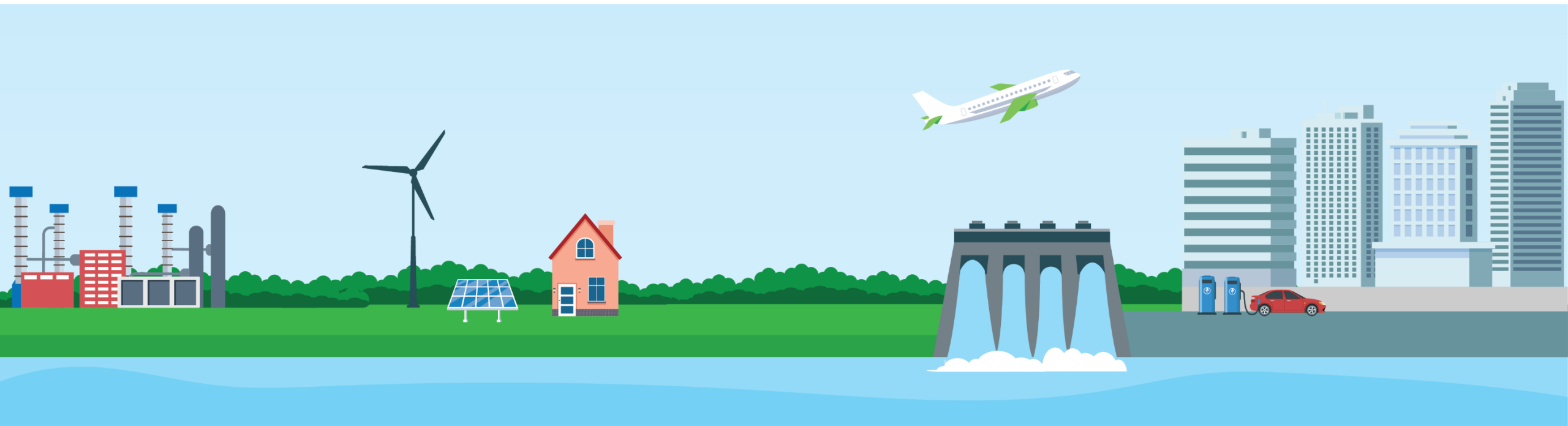


# EESI FY 2024 Budget Briefing

**Alejandro Moreno**

Acting Assistant Secretary, Office of Energy Efficiency and Renewable Energy

Thursday, April 13, 2023



# EERE Guiding Principles

## EERE Mission Program Priorities

**100% decarbonized electric grid by 2035**

**Reduce the carbon footprint of buildings**

**Decarbonizing the agriculture sector, specifically focused on the nexus between energy and water**

**Decarbonize transportation across all modes**

**Decarbonize energy intensive industries**

## Keys to Ensure the Greatest Impact

**Environmental Justice and Equity**

**Diversity in STEM**

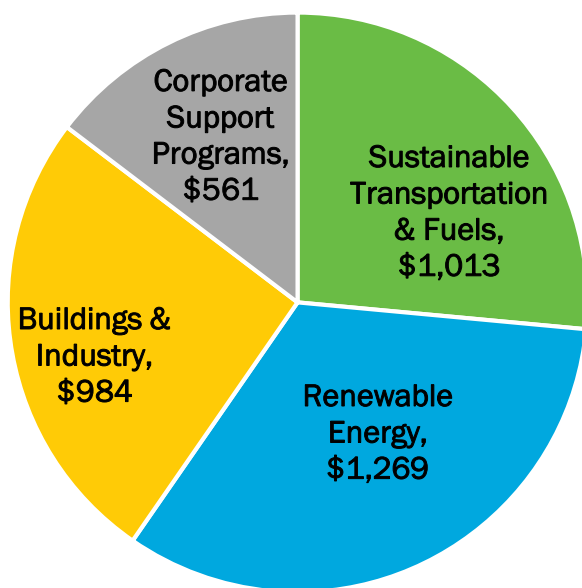
**Workforce Development**

**State and Local Partnerships**



# EERE FY 2024 Request Summary

This Request builds on FY 2023 investments with key changes that further RDD&D for net-zero greenhouse gas emissions goals



Funding in \$Million


\$ in thousands	FY 2022* Enacted	FY 2023* Enacted	FY 2024 Request	Delta (\$) FY 2023 to FY 2024	Delta (%) FY 2023 to FY 2024
Sustainable Transportation & Fuels	839,500	905,000	1,013,017	108,017	12%
Renewable Energy	708,800	792,000	1,268,743	476,743	60%
Buildings & Industry	710,500	782,000	983,583	201,583	26%
Corporate Support Programs	340,184	412,000	560,773	148,773	36%
Congressionally Directed Spending	77,047	TBD	-		
<b>Total, EERE</b>	<b>2,676,031</b>	<b>2,891,000</b>	<b>3,826,116</b>	<b>935,116</b>	<b>32%</b>

\*Excludes SCEP, MESC, FEMP; Activities designated for re-alignment to Office of Under Secretary for Infrastructure


# Sustainable Transportation & Fuels

FY 2024 RDD&D efforts focused on decarbonizing transportation across all modes and enabling **vehicle electrification**, commercially viable **hydrogen fuel cell trucks**, and sustainable **aviation fuels**.


Mode-specific Decarbonization Plans




Improve Customer Charging Experience




Drive Down Battery Costs



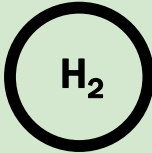
Scale-up Sustainable Aviation Fuels



Reduce GHG for Biofuels



Focus on Hydrogen Production and Delivery

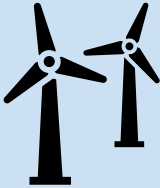



\$ in thousands	FY 2023 Enacted	FY 2024 Request	\$ Change	% Change
Vehicle Technologies	455,000	526,942	71,942	15.8%
Bioenergy Technologies	280,000	323,000	43,000	15.3%
Hydrogen and Fuel Cell Technologies	170,000	163,075	-6,925	-4.0%

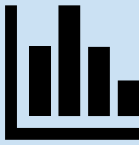


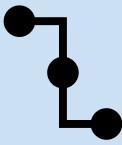
# Renewable Energy


FY 2024 RDD&D efforts in solar, wind, water, and geothermal power focused on helping **reduce costs** and accelerating the use and **integration of renewables** as part of a **reliable, secure, and resilient grid**.


Reduce Costs for Renewable Energy Technologies  


Address Barriers to Utilization  


Provide Technology, Data, and Tools  


Support Supply Chains  


Ensure Reliability and Resilience  


Create Regional Energy-Water Testing and Validation  



\$ in thousands	FY 2023 Enacted	FY 2024 Request	\$ Change	% Change
Renewable Energy Grid Integration	45,000	59,066	14,066	31.2%
Solar Energy Technologies	318,000	378,908	60,908	19.1%
Wind Energy Technologies	132,000	385,000	253,000	191.6%
Water Power Technologies	179,000	229,769	50,769	28.3%
Geothermal Technologies	118,000	216,000	98,000	83.0%

*Excludes certain activities in WPTO transferring to the Office of the Undersecretary of Infrastructure due to the realignment within DOE.*


# Buildings & Industry

FY 2024 RDD&D efforts focused on the **resilience of homes and buildings** and strengthening U.S. manufacturing competitiveness.

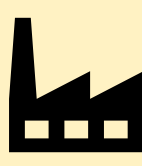
Accelerate Energy Efficiency and Decarbonization




Invest in Grid-edge Technologies



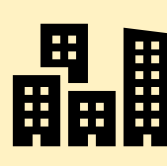
Ensure Manufacturing Competitiveness




Utilize Innovative Partnerships and Tools



Support Building Codes



Advance Appliance Standards

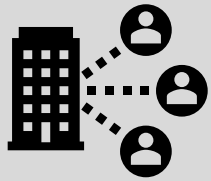


\$ in thousands	FY 2023 Enacted	FY 2024 Request	\$ Change	% Change
Advanced Materials and Manufacturing Technology	183,500	241,497	57,997	32%
Industrial Efficiency & Decarbonization	266,500	394,245	127,745	48%
Building Technologies	332,000	347,841	15,841	4.7%



# From Technology to Solutions

FY 2024 cross-cutting initiatives aimed at **addressing interconnected challenges** faced by **communities** across the renewable energy, transportation, and buildings sectors.



Connected  
Communities



Clean Energy to  
Communities



Energy Transitions  
Initiative



Clean Cities  
Coalitions

