



## EERE 2021 Year in Review

The Office of Energy Efficiency and Renewable Energy (EERE) has aggressively pursued a cleaner future for all—developing solutions that will lay the foundation for our clean energy economy. In 2021, EERE invested more than \$500 million in clean energy technologies to help get the country on track to meet President Biden’s goal of reducing carbon emissions 50 to 52% by 2030.

### Launched New Clean Energy Programs for the Benefit of ALL Americans

Challenged 125 communities to sign up for SolarAPP+, a new tool that instantly reviews residential solar installation permits. Surpassed the initial goal and set a new goal to add 60 additional communities to SolarAPP+ by March 2022.

Launched a \$2.5 million Inclusive Energy Innovation Prize to support entrepreneurship and innovation in communities historically underserved in climate and energy technology funding.



Launched Communities LEAP to help communities with historical ties to fossil fuel industries take direct control of their clean energy future.

### Set New Goals for Slashing the Costs of Clean Energy

Set a goal to cut the cost of solar energy by 60% within the next ten years, and announced nearly \$128 million in funding to lower costs, improve performance, and speed the deployment of solar energy technologies.



Announced the Department’s first two Earthshots, Hydrogen Shot and Long Duration Storage Shot. The Hydrogen Shot is a “1:1:1” goal to reduce the cost of hydrogen to \$1 per 1 kilogram in one decade, while the Storage Shot aims to reduce the cost of grid-scale energy storage by 90% for systems that deliver 10+ hours of duration within the decade.

### Enabled Cleaner Transportation Options

Launched the Sustainable Aviation Fuel Grand Challenge, a government-wide commitment to scale up the production of sustainable aviation fuels to 35 billion gallons per year by 2050.



The Departments of Energy, Transportation, and Agriculture joined forces to reduce the cost, enhance the sustainability, and expand the production and use of sustainable aviation fuels.

With the Department of Transportation, launched a joint Office of Energy and Transportation to build out a national electric vehicle charging network that focuses on filling gaps in rural, disadvantaged, and hard-to-reach locations.



## Took Bold Action to Add More Renewable Energy to the Grid

With the Departments of Interior and Commerce, set a national goal to deploy 30 GW of offshore wind by 2030, which would support 77,000 jobs, power over 10 million homes, cut 78 million metric tons in carbon emissions, spur \$12 billion in capital investment annually, and support new manufacturing plants, installation vessels, and port upgrades.

Released the Pumped Storage Hydropower Valuation Tool, which allows users to quickly and easily complete the valuation process for pumped storage hydropower plants and their associated services.

Drilled the first domestic, carbon-free geothermal projects through University of Utah's Frontier Observatory for Research in Geothermal Energy (FORGE) Initiative.



## Improved Energy Efficiency in Buildings and Manufacturing Plants

Saved \$9.3 billion in energy costs and 1.9 quadrillion Btus cumulatively – more energy than the state of Wisconsin consumes in a year – through the work of EERE's Better Buildings, Better Plants Program partners.



Celebrated the 45<sup>th</sup> anniversary of the Weatherization Assistance Program and announced \$18.6 million

to enhance the impact of existing residential weatherization programs and help lower the costs for consumers.

Awarded \$61 million for 10 new Connected Communities, networks of energy-efficient buildings that interact with the electrical grid to optimize energy consumption and decrease carbon emissions and energy costs.

Awarded \$13 million for new energy projects that will help federal facilities improve the efficiency of their operations.



## Provided Training Resources to the Future Clean Energy Workforce



Celebrated the 20th anniversary of the Solar Decathlon and announced the 133 teams that will compete in the 2022 Design Challenge and 2023 Build Challenge. The competition challenges students to create high-performance, efficient, and affordable buildings powered by renewable energy.

Sought feedback from industry, academia, government agencies, and worker organizations on how EERE can help promote an employee-centered, diverse and inclusive workforce that includes possible pathways to union membership and engagement.

# #CLEAN ENERGY CHAMPION

Learn more about what it means to be a Clean Energy Champion and engage with EERE on ways we can inspire, educate, and empower each other in 2022.

[Energy.gov/EERE/CleanEnergyChampion](https://www.energy.gov/EERE/CleanEnergyChampion)