

# Arpa e renewable energy funding





## Overview

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The U.S. Department of Energy and ARPA-E awarded \$151 million in funds on October 26, 2009 for 37 energy research projects. It supported technologies for , , , , and . The grants also supported technologies, including and for , devices for ,



## Arpa e renewable energy funding

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### [ARPA-E eXCHANGE: Funding Opportunities](#)

The Advanced Research Projects Agency-Energy (ARPA-E) of the US Department of Energy seeks information that could inform ARPA-E's potential research and development (R& D) ...

### [Press Release , arpa-e.energy.gov](#)

News Media Contact: (202) 586-4940 For Immediate Release: Thursday, December 15, 2016 WASHINGTON, DC -- The Energy Department's Advanced Research Projects Agency-Energy (ARPA-E) today announced up to \$70 million in funding for its two newest programs: Renewable Energy to Fuels Through Utilization of Energy-Dense Liquids ...



### [Search Our Programs , arpa-e.energy.gov](#)

Fusion energy holds the promise of cheap, clean power production, but up to now scientists have been unable to successfully harness fusion as a power source due to complex scientific and technological challenges and the high cost of research. ARPA-E's ALPHA

### [Blog Post , arpa-e.energy.gov](#)

Working to find outside-the-box solutions that address existing limitations of energy technologies is a unifying goal among many ARPA-E programs. A core aspect of our mission is to look at how we can develop new materials,



new processes, and new technologies to solve complex problems, with a particular focus on decreasing carbon emissions across a ...



[Antora Energy . arpa-e.energy.gov](https://arpa-e.energy.gov)

Antora bridges the gap between renewable energy and industrial manufacturing. By tapping into low-cost, abundant wind and solar energy, Antora's thermal batteries directly displace onsite fossil fuel combustion at industrial facilities--slashing emissions and enabling manufacturers to use locally-produced, zero-emissions energy.

## I. Funding Opportunity Description , arpa-e.energy.gov

A. Agency Overview The Advanced Research Projects Agency - Energy (ARPA-E), an organization within the Department of Energy (DOE), is chartered by Congress in the America COMPETES Act of 2007 (P.L. 110-69), as amended by the America COMPETES Reauthorization Act of 2010 (P.L. 111-358) to: "(A) to enhance the economic and energy security of the United ...



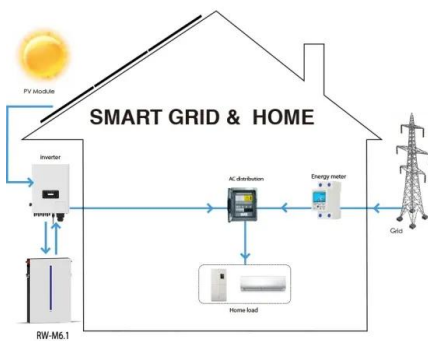
[ARPA-E eXCHANGE: Funding Opportunities](#)

To achieve attractive economics, ARPA-E expects that chemical reactors will need to be dynamically operable to optimize the entire system of renewable energy production, electrolysis capital, and energy storage.



[Blog Post , arpa-e.energy.gov](#)

Update: October 19, 2021 ESS began trading publicly on the New York Stock Exchange on October 11, 2021. ESS' (NYSE: GWH) batteries provide a new tool for decarbonizing the grid and further ARPA-E's mission of changing what's possible in how we generate, use, and store energy. For a look back at ESS' time as an ARPA-E project, check ...



**Home , arpa-e.energy.gov**

ARPA-E ANNOUNCES \$30 MILLION TO USE QUANTUM COMPUTING FOR GROUNDBREAKING CHEMISTRY AND MATERIALS SCIENCE The Quantum Computing for Computational Chemistry (QC 3) program aims to develop quantum algorithms to revolutionize diverse areas of energy research, such as designing new and sustainable industrial catalysts, ...

[Press Release , arpa-e.energy.gov](#)

WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) Advanced Research Projects Agency-Energy (ARPA-E) today announced \$18 million for 9 projects to enable the growth of hydrogen as a replacement for fossil fuels. Hydrogen is increasingly seen as a clean energy source and decarbonization agent for industry and transportation. Current global ...





### ARPA-E

ARPA-E, or Advanced Research Projects Agency-Energy is a United States government agency tasked with promoting and funding research and development of advanced energy technologies. It is modeled after the Defense Advanced Research Projects Agency (DARPA).

[Blog Post , arpa-e.energy.gov](https://arpa-e.energy.gov)

In 2019, ARPA-E announced an ongoing funding opportunity for a range of the most innovative and unconventional ideas across the energy technology spectrum, exploring high-risk R& D that could lead to the development of disruptive technologies. The topics explored under this opportunity are not part of existing ARPA-E programs, but if successful could establish new ...



### ADVANCED RESEARCH PROJECTS AGENCY

THE ARPA-E PROGRAM HISTORY The Advanced Research Projects Agency - Energy (ARPA-E) was established under the America COMPETES Act of 2007 as a new agency within the U.S. Department of Energy (DOE) to fund innovative energy research



[Blog Post , arpa-e.energy.gov](https://arpa-e.energy.gov)

On February 22, 2024, ARPA-E awardee Antora Energy announced a \$150 million Series B funding round, led by Decarbonization Partners, for their modular thermal batteries. In March 2024, DOE's Office of Clean Energy Deployment announced the department's largest industrial decarbonization investment to date, and Antora is part of a team that is selected to receive up ...





### [ARPA-E eXCHANGE: Funding Opportunities](#)

To achieve attractive economics, ARPA-E expects that chemical reactors will need to be dynamically operable to optimize the entire system of renewable energy production, ...

### **DOE Announces \$100 Million for Transformative ...**

WASHINGTON, D.C. -- In support of the Biden Administration's climate innovation agenda, the U.S. Department of Energy (DOE) today announced up to \$100 million in funding for transformative clean energy ...



### [ARPA-E Disruptors: Antora Energy](#)

Funding Antora's project has received \$7.9 million in ARPA-E support and the company has raised a total of \$230 million in funding from Decarbonization Partners, Breakthrough Energy Ventures, Lowercarbon Capital, and other investors.

### [Blog Post, arpa-e.energy.gov](#)

On July 9, ARPA-E and the National Academies of Sciences hosted a ceremony to celebrate the talent and creativity of remarkable early-career innovators recognized through the Inspiring Generations of New Innovators to Impact Technologies in Energy 2024 (IGNIITE 2024) program. The 23 IGNIITE 2024 selectees will receive approximately \$500,000 to advance ...





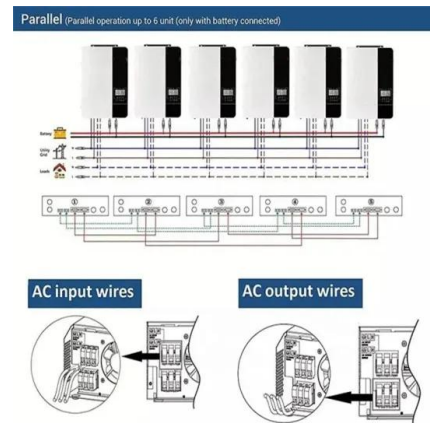
### About , arpa-e.energy.gov

ARPA-E empowers America's energy researchers with funding, technical assistance, and market readiness. Our rigorous program design, competitive project selection process, and active ...



### [Press Release , arpa-e.energy.gov](#)

WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) today announced \$34 million for 12 projects across 11 states to strengthen and modernize America's aging power grid through the development of cost-effective, high-speed, and safe undergrounding technologies. Through the Grid Overhaul with Proactive, High-speed Undergrounding for ...



### [IGNIITE 2024 Selectees , arpa-e.energy.gov](#)

ARPA-E announced approximately \$11.5 million in funding through its new Inspiring Generations of New Innovators to Impact Technologies in Energy 2024 (IGNIITE 2024) program focused on early-career scientists and engineers converting disruptive ideas into impactful energy technologies. Each IGNIITE 2024 awardee will receive approximately \$500,000 to advance ...

### [Publication , arpa-e.energy.gov](#)

Executive Summary The main objective of this study is to quantify the entitlement for system benefits attainable by pervasive application of flexible energy resources in scenarios with extra-high penetration of renewable energy. The quantified benefits include savings in thermal energy and reduction of CO2 emissions. Both are primarily a result of displacement of conventional ...



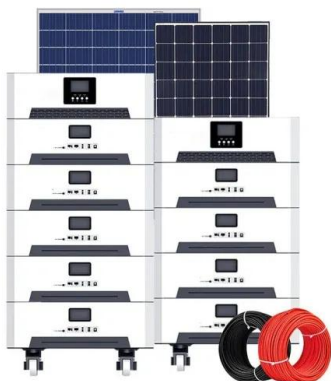


[Blog Post , arpa-e.energy.gov](#)

ARPA-E is the Department of Energy's high-risk, high-potential early-stage R& D agency. ARPA-E's mission is to help disruptive, impactful energy technologies reach proof-of-concept. At that point, other funding sources get ...

[Press Release , arpa-e.energy.gov](#)

Press and General Inquiries: 202-287-5440 ARPA-E-Comms@hq.doe.gov WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) today announced \$9 million in funding to six projects developing technology to model the low-carbon intermodal freight transportation system of the future. The selected projects seek to minimize emissions and ...



[Press Releases , arpa-e.energy.gov](#)

The U.S. Department of Energy Advanced Research Projects Agency-Energy (ARPA-E) today announced funding to pioneer a new approach to studying chemistry and materials. The Quantum Computing for Computational Chemistry (QC3) program aims to develop

[Press Release , arpa-e.energy.gov](#)

April 26, 2016 ARPA-E Announces \$30 Million in Funding for New Technologies to Produce Renewable Liquid Fuels The U.S. Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E) today announced up to \$30 million in funding for a new program for technologies that use renewable energy to convert air and water into cost-competitive liquid ...





### Advanced Research Projects Agency-Energy (ARPA-E)

The Energy Department's Advanced Research Projects Agency-Energy (ARPA-E) advances high-potential, high-impact energy technologies that are too early for private-sector investment. The projects funded by ARPA-E are developing ...

[Press Release . arpa-e.energy.gov](https://www.energy.gov/arpa-e-energy-innovation/press-releases)

WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) today announced up to \$30 million in funding to develop innovative solutions that support the creation of a circular electric vehicle (EV) battery supply chain. Funded by DOE's Advanced Research Projects Agency-Energy (ARPA-E), the Catalyzing Innovative Research for Circular Use of ...



LFP 12V 200Ah

**12.8V 100Ah**



### ARPA-E

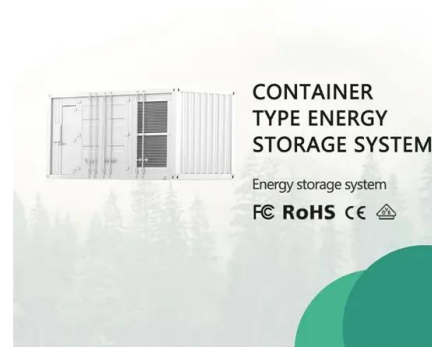
OverviewFunding and awardsHistory and missionTimelineARPA-E and EEREProject creation and the review processARPA-E Energy Innovation SummitARPA-E accomplishments

The U.S. Department of Energy and ARPA-E awarded \$151 million in American Recovery and Reinvestment Act funds on October 26, 2009 for 37 energy research projects. It supported renewable energy technologies for solar cells, wind turbines, geothermal drilling, biofuels, and biomass energy crops. The grants also supported energy efficiency technologies, including power electronics and engine-generators for advanced vehicles, devices for waste heat recovery, smart glass

[Press Release . arpa-e.energy.gov](https://www.energy.gov/arpa-e-energy-innovation/press-releases)



News Media Contact: (202) 586-4940  
WASHINGTON, D.C. -- Today, the U.S. Department of Energy (DOE) announced up to \$20 million in funding for projects as part of a new Advanced Research Projects Agency-Energy (ARPA-E) program: Modeling-Enhanced Innovations Trailblazing Nuclear Energy Reinvigoration (MEITNER). MEITNER projects seek ...



[GREENWELLS , arpa-e.energy.gov](https://arpa-e.energy.gov)

GREENWELLS will develop processes for harnessing intermittent renewable energy sources like wind and solar to produce liquids for sustainable fuels or chemicals and their precursors. The program will support the development of chemical reactor systems to

### [ARPA-E eXCHANGE: Funding Opportunities](#)

ARPA-E's REFUEL (Renewable Energy to Fuels through Utilization of Energy-dense Liquids) program is investing in the development of scalable technologies for conversion of electrical or thermal energy from renewable sources into chemical energy contained in



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