U.S. DEPARTMENT OF ENERGY | OFFICE OF THE UNDER SECRETARY FOR INFRASTRUCTURE

Progress Update
Summer 2024

U.S. Department of Energy
Bipartisan Infrastructure Law & Inflation Reduction Act Funding

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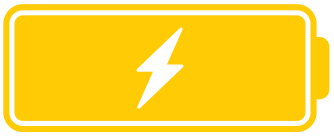
On Track to Supercharge the Clean Energy Economy

The U.S. Department of Energy's (DOE) Office of Infrastructure serves as the demonstration and deployment arm of the Department, tasked with stewarding billions in historic investments from the Bipartisan Infrastructure Law (BIL) and Inflation Reduction Act (IRA) to renew our nation's infrastructure, rebuild domestic manufacturing, create millions of good-paying jobs, address climate change, and increase American competitiveness.



100%
programs launched

$82.5B+
funding opportunities announced for clean energy

$48.7B+
for 1,000+ selected projects and 4,000+ formula funding awardees

$60B+
of private capital in matched federal dollars for selected projects

$24.3B+
in closed or conditionally committed loans

Our Priorities

- **Building Out a More Resilient Grid**
- **Reducing Energy Costs through Building and Home Upgrades**
- **Securing Key U.S. Clean Energy Supply Chains**
- **Supercharging Clean Industrial Innovation**
- **Creating High-quality, Accessible Careers**
- **Investing in Underserved Communities**
- **Bolstering Clean Energy Generation and Storage**
- **State, Local, and Tribal Clean Energy Partnerships**

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Making Federal Funding Go Further

Bringing Communities to the Table

Accessing Benefits of Federal Funding

DOE is making federal funding more accessible to under-resourced communities by removing cost share requirements and providing technical assistance to applicants in specific programs. DOE also requires Community Benefits Plans (CBPs) for all BIL and IRA funding and loans.

Igniting the Private Sector

Commercializing Technologies and Financing Projects

DOE recently issued a memo that outlines a few, critical policy changes across BIL and IRA negotiations. This memo includes topics like tangible property interest, non-federal cost share, community benefits commitments, and more. This will help DOE standardize the way we do business, so we can further ignite the private sector and create a sense of consistency across the Department.

Read more on Community Benefits Plans

Read the commercialization memo

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Building Out a More Resilient Grid

DOE is expanding affordable, reliable, resilient, and secure clean energy for all communities. DOE investments will help bring more than **35 GW** of renewable energy online and build out over **600 miles** of new transmission lines. New investments in grid resilience will help keep the lights on in **33 million** American homes.

To date:

- **$13.3 billion** has been made available to build out a better grid, the largest-ever direct investment in critical grid infrastructure.
- 60 projects have been selected for **$4.8 billion** in competitive funding.
- 48 states, Washington D.C., three territories, and 178 Tribes have received **$800 million** in funding through formula grants Programs.
- **$70 million** has been made available to help electric cooperative, municipal, and small investor-owned utilities harden protection against cybersecurity threats.

Impact Spotlight

Community Energy Resilience Program
Texas

CPS Energy was awarded $30 million through BIL for their Community Energy Resilience Program to increase the resilience and reliability of the Texas grid. This project seeks to deploy innovative technologies to better orchestrate grid conditions through management and optimization of microgrids, solar, battery storage, and smart grid technologies. The program's goal is to ensure that Texas's grid is reliable, secure, efficient, and can meet the evolving needs of consumers. As ageing infrastructure and extreme weather events continue to strain America's power grid, investments such as this will help provide power to a location even if the electrical grid power is no longer present. This is one of thirty-four selected projects under GDO's Smart Grid Grants to strengthen electric grid resilience and reliability across America.

Securing Key U.S. Clean Energy Supply Chains

To date, DOE has made **$13.4 billion** available and awarded **$2 billion** to 87 projects to strengthen domestic clean energy supply chains. In addition, over **$16 billion** in conditionally committed loans will, if finalized, support battery supply chain and critical materials process and recycling projects in seven states.

Additionally, this includes:

- **$1.8 billion** awarded to 14 projects that will build, retrofit, and expand commercial-scale battery processing and recycling facilities and demonstrate new manufacturing approaches.
- Funding for 17 awarded and 21 selected new or upgraded manufacturing facilities to produce clean energy technologies across 25 states.
- **$169 million** selected to boost manufacturing of electric heat pumps and key heat pump components at 15 sites across 13 states.
- **$1.7 billion** selected to support the conversion of 11 shuttered or at-risk auto manufacturing and assembly facilities across eight states to manufacture electric vehicles and their supply chain.
- DOE and IRS announced **$4 billion** in tax credits for over 100 projects across 35 states.

  This tax credit applies to:

  - Clean energy manufacturing and recycling projects
  - Critical materials refining, processing and recycling projects
  - Projects that reduce greenhouse gas emissions at industrial facilities

Impact Spotlight

Electric Vehicle ("EV") Conversion in York, Pennsylvania
York, Pennsylvania

Harley-Davidson was selected for $89 million through IRA. This project will expand its 650,000 sq. ft. facility in York, Pennsylvania for EV motorcycle manufacturing by incorporating new paint and assembly equipment, retaining and re-training its over 1,300 union workforce and hiring over 125 workers and pledging meaningful community and workforce enhancements. This is one of nine selected projects via the Office of Manufacturing and Supply Chain's (MESC) Domestic Manufacturing Conversion Grant Program to support the domestic electric vehicle supply chain.

Reducing Energy Costs through Building and Home Upgrades

DOE has made **$13.7 billion** available for lowering energy costs and increasing efficiency through upgrades to homes, businesses, school, and nonprofits. **$3.2 billion** is now available to retrofit thousands of low-incomes homes to make them healthier and more energy efficient while lowering utility bills.

Additionally, this includes:

- **$158 million** awarded to 47 school districts for clean energy projects in disadvantaged K-12 public schools across 22+ states.
- **$50 million** selected to support over 300 nonprofits across the country with planning and implementing energy efficiency projects to reduce operational cost and put more money toward organizational goals.
- **$104 million** made available for energy conservation and clean energy projects at 31 federal facilities.

Program Spotlight: Home Energy Rebates

DOE is making significant progress implementing its **$8.8 billion** Home Energy Rebates programs, which puts money directly in the hands of American households. Since the program's launch, DOE has awarded almost **$900 million** to early mover states, Tribes, and territories, laying the foundation for programs projected to save households up to $1 billion on energy bills each year and support over 50,000 American jobs. In May, New York became the first state to launch a program.

New York Home Rebate Program

New York's first phase of its $158 million Home Electrification and Appliance Rebates (HEAR) program weaves federal funding into the state's existing EmPower+ program, which serves homeowners and renters with incomes below 80% of their area median. The first phase of the program will support homeowners to improve weatherization for their homes and install upgraded appliances.

Find out more about state progress at energy.gov/save/rebates

Supercharging Clean Industrial Innovation

Industrial Decarbonization

DOE has announced **$6 billion** for projects selected for award negotiations for 33 projects across 20 states that will advance first of a kind commercial scale solutions for many difficult-to-decarbonize industries. These projects are expected to reduce the equivalent of more than **14 million metric tons** of carbon dioxide (CO2) emissions each year—equivalent to the annual emissions of 3 million gasoline-powered cars.

Clean Hydrogen

$8.3 billion has been announced for projects selected for award negotiations in support of a clean hydrogen economy, including **$7 billion** for seven clean hydrogen hubs, which are expected to produce millions of metric tons of hydrogen annually and create tens of thousands of good paying jobs.

Carbon Capture and Storage

$4.5 billion has been made available with **$700 million** selected for award negotiations to fund carbon capture and storage.[1] DOE has funded 25 projects in 17 states to build out infrastructure to store carbon dioxide in geologic storage, expanding carbon dioxide storage capacity by over **3.3 billion metric tons** of carbon dioxide over 30 years. This will significantly reduce emissions from industrial operations and power plants, as well as from legacy emissions in the atmosphere.

Pollution Reduction

DOE and the Environmental Protection Agency together have made **$1.3 billion** available to dramatically reduce methane pollution to protect public health, create good-paying jobs, and save consumers money. This includes **$850 million** available for monitoring and mitigation across oil and gas sector to eliminate approximately an estimated 700,000 tonnes of methane pollution annually.

1. A portion of the funding for hydrogen and carbon capture will go to sectors other than industrial emissions reduction.

Creating High-quality, Accessible Careers

DOE investments are creating high-quality, good-paying jobs that will bolster the equitable clean energy transition. It is projected that these investments will create **hundreds of thousands of jobs** with fair wages and benefits and the free and fair choice to collectively bargain and join a union.

To help ensure America's workers can access high-quality, good-paying jobs, **$341 million** has been made available to build up a clean energy workforce.

DOE projects have committed to dozens of trainings and apprenticeship programs to build out America's clean energy workforce.

Impact Spotlights

New Mexico State University Building Training and Assessment Center (BTAC)
Nex Mexico

This BTAC will work with the Oklahoma State University Center of Excellence and Arizona State University IAC to offer BTAC services in New Mexico. New Mexico State will conduct energy assessments for New Mexico businesses while offering a range of energy efficiency training pathways, from registered apprenticeships to micro-credential opportunities. To implement this project and increase its reach, New Mexico State will partner with Santa Fe Community College, Tribal Colleges, Tribal Chapter Houses, libraries, union training centers, and other community partners across the states of New Mexico, Texas, Oklahoma, and Arizona.

Investing in Underserved Communities

DOE is ensuring the benefits of BIL and IRA investments flow to communities at risk of being left behind in the clean energy transition. That includes today's energy-producing communities as well as those who have too often borne the downsides of past energy systems without sharing in the economic upsides.

Traditional Energy Producing Communities

- **$1.2 billion** has been made available for energy communities.
- Six projects selected for **$255 million** to revitalize communities affected by coal mine or coal power plant closures focused on clean energy supply chains.
- DOE and IRS announced **$1.5 billion** in tax credits to support projects in historic energy communities.[2]

Rural and Remote Communities

- **$366 million** was selected for 17 projects across 20 states and 30 Tribal Nations and communities to accelerate clean energy deployment in rural and remote areas.
- In addition, a unique **$78 million** grant program will fund 19 projects to expand access to reliable and affordable energy in rural and remote communities.
  - The grant program used a simplified grant application process, removed cost share requirements, offered technical assistance, and reduced reporting requirements to increase the accessibility of funds.

Tribes

- **$596 million** for Tribes through formula funding.
- An up to **$72.8 million** partial loan guarantee, if finalized, will help finance the development of a solar-plus long-duration energy storage microgrid on Tribal lands.

Impact Spotlights

Lewis Ridge Project (Coal-to-Pumped Storage Hydropower) in Kentucky
Bell County, Kentucky

Rye Development was selected for $89 million through BIL to convert former coal mine land in Bell County into a closed-loop, 287 MW pumped-storage hydroelectric (PSH) facility. This facility could provide 671,700 MWh of clean electricity annually—enough to power about 67,000 homes each year. This is one of five project selected through the Office of Clean Energy Demonstration's (OCED) Clean Energy Demonstration Program on Current and Former Mine Land Program.

2. More information on DOE and IRS tax credit on "Securing Key U.S. Clean Energy Supply Chains" page

Bolstering Clean Energy Generation and Storage

DOE programs funded by BIL and IRA contain critical investments to reach net-zero emissions by 2050. To date, **$4.7 billion** has been announced for projects selected to support clean energy generation and storage. In addition, a **$3 billion** virtual power plant loan guarantee will provide loans for clean energy systems for approximately **75,000 to 115,000 homeowners** throughout the United States, including Puerto Rico.

This includes:

- **$26 million** for 10 projects to strengthen American manufacturing and domestic solar supply chains.
- **$60 million** for three projects to demonstrate enhanced geothermal systems technology.
- **$27 million** for 15 projects to address key deployment challenges for offshore, land-based, and distributed wind.
- **$71.5 million** selected to support upgrading **46 hydroelectric facilities** and **$16.7 million** to accelerate expansion of pumped storage and other hydropower technologies. This includes two projects to test innovative pumped storage hydropower technologies, currently the largest type of bulk energy storage in the U.S. with more than **20 GW** of capacity deployed.

Impact Spotlights

Communities Accessing Resilient Energy Storage

Red Lake Nation, MN; Santa Fe, NM; Petaluma, CA

Rejoule was awarded $2 million for the first phase of its up to $10 million award for the Communities Accessing Resilient Energy Storage project. ReJoule plans to build modular energy storage systems made from repurposed batteries for installation at three sites. ReJoule plans to use second-life lithium-ion batteries from electric vehicles to assemble modular battery energy storage systems (BESS) for behind-the-meter microgrid installations. ReJoule aims to use BattScan, their patented rapid diagnostic testing platform, to measure the batteries' State of Health (SOH), to select batteries for repurposing and estimate their lifespan in the BESS.

State, Local, and Tribal Clean Energy Partnerships

$868 million has been made available to support states, Tribes, and communities making progress towards their clean energy goals.

Energy Efficiency and Conservation Block Grant Program (EECBG)

The EECBG Program funds a wide variety of clean energy projects and programs that align with communities' clean energy goals to meet their local needs. As of June 2024, DOE has awarded a total of **$150 million** in EECBG Program formula funding to 175 communities.

State Energy Program

DOE is expanding the long-standing State Energy Program to help every state and territory manage their energy resources and accelerate gains in energy efficiency and add more clean energy onto the grid. Through BIL investments, DOE is providing an additional **$750 million** to the State Energy Program, including **$250 million** to establish Energy Efficiency Revolving Loan Funds that provide low-cost capital to clean energy infrastructure projects.

Impact Spotlight

Alabama EECBG Program Formula Award

$2.2 million will go to the State of Alabama through BIL funded EECBG program to establish a competitive grant program for efficiency upgrades for local governments and schools. Possible upgrades include: heat pumps, rooftop solar, HVAC updates, weatherization improvements, and lighting. The program will prioritize disadvantaged communities.

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