



Infrastructure Funding

Progress Update Fall 2024

U.S. Department of Energy Office of the Under Secretary for Infrastructure



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On Track to Put Federal Funding to Work for the American People



The U.S. Department of Energy's (DOE) Office of the Under Secretary for 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.

Key Progress Indicators to Date:

- ❖ DOE has committed **over \$95 billion** for grants and loans through funding made available by BIL and IRA.
- ❖ This represents **over 1,900** competitively selected projects and **nearly 4,500** formula funding awardees.
- ❖ **Approximately \$37 billion** in conditionally committed or financially closed loans and loan guarantees.
- ❖ **Over \$104 billion** in matched private capital for competitively selected projects.

Priorities of the Energy Act of 2020 and the Historic Infrastructure Funding

- ❖ 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

Building Out a More Resilient Grid

DOE is expanding affordable, reliable, resilient, and secure clean energy for communities throughout the United States. Investments made by DOE's Grid Deployment Office (GDO) will enable **67 gigawatts** of grid capacity and new resources, equivalent to powering **50 million homes** each year. GDO investments will help build out and upgrade more than **4,375 miles** of new transmission lines by 2031, **more than 11 times** the number of miles developed in 2021.

To date:

- ❖ **More than 100 projects** were selected for **\$7.6 billion** in competitive federal funding and leveraging substantial amounts of additional public and private sector funding to build out a better electric grid
- ❖ **Additionally, 49 states, Washington D.C., five territories, and 254 Tribes** have received approximately **\$1.3 billion** in funding through the Grid Resilience State and Tribal Grant Program.
- ❖ The Grid Resilience and Innovation Partnerships program will increase grid resilience, reliability, and affordability for **90 million homes and business** across the country.

Impact Spotlight

CITAP Final Rule

The [2024 Coordinated Interagency Transmission Authorizations and Permits \(CITAP\)](#) final rule will help accelerate permitting for transmission projects by **cutting average federal permitting times in half**. Had CITAP been in place from 2010 through 2020, it would have saved **approximately 66 years** in federal permitting time.



Securing Key U.S. Clean Energy Supply Chains



To date, DOE has competitively selected **146 projects** for **\$7.93 billion** to strengthen domestic clean energy supply chains and create high-quality jobs.

DOE's Office of Manufacturing and Energy Supply Chains (MESC) recently put out a cumulative impact snapshot through Fiscal Year 2024. Achievements include:

- ❖ **\$39.7 billion** in combined federal and private investment to date
- ❖ **\$27.7 billion** catalyzed in private sector investment
- ❖ Over **65 energy manufacturing portfolio projects** spanning batteries, buildings and energy efficiency, clean generation, critical minerals processing and recycling, grid, and more.
- ❖ **\$150 million** in direct investments in clean energy workforce
- ❖ **147 workforce training programs** selected, including non-traditional, community colleges, and vocational schools
- ❖ Support for **over 2,400 students** in training annually

Impact Spotlight

Daikin Domestic Inverter Heat Pump Manufacturing Project in Waller, Texas

Daikin Comfort Technologies North America, Inc. was selected for \$39 million to strategically retrofit a production line to begin a transition towards the production of energy efficient heat pump technology. Daikin will create approximately 275 jobs and actively promote skills training and education opportunities within the surrounding community. This is one of 13 selected projects via the MESC Defense Production Act Program to boost manufacturing of electric heat pumps, heat pump hot water heaters, and components.

Reducing Energy Costs through Building and Home Upgrades

DOE has selected around **1320 competitively selected or formula funding eligible projects** for **approximately \$13.5 billion** to lower energy costs and increase efficiency through upgrades to homes, businesses, schools, and nonprofits.

Program Highlight: AFFECT Program for Federal Facilities

DOE recently announced nearly **\$150 million** in funding for **67 energy conservation and clean energy projects** at federal facilities across **28 U.S. states and territories** and **six international locations**.

This marks the second and final disbursement under BIL's Assisting Federal Facilities with Energy Conservation Technologies (AFFECT) program, bringing the total funding to \$250 million. These projects enhance energy efficiency, reduce water usage, improve resiliency, and support the federal government's transition to net-zero emissions. Managed by DOE's Federal Energy Management Program, the projects will implement advanced technologies, such as battery energy storage systems and microgrids, and renewable energy sources, such as solar and wind. Collectively, these 67 projects are expected to:

- ❖ **Leverage \$1.6 billion** in private and agency capital, equating to **\$13.50 for every AFFECT federal dollar** spent.
- ❖ **Save taxpayers \$41.7 million** annually in energy and water costs while **saving the energy required to power 35,700 homes** annually (883,525 MBtu/year) and **conserve more than 1 billion gallons** of water annually—or enough for **24 million loads of laundry**.
- ❖ **Support 20 projects (30% of selected projects)** located in or adjacent to disadvantaged communities, **creating jobs** and driving **local economic development**.
- ❖ **Generate carbon pollution-free electricity** equivalent to driving **494 million miles** in electric cars (176,383 MWh/year).



Program Spotlight: Home Energy Rebates

DOE is making significant progress implementing the **\$8.8 billion** Home Energy Rebates programs, which supports States, territories, and Tribes by putting money directly in the hands of American households:

- ❖ **51 states and territories** have applied to DOE for early administrative or full program funding.
- ❖ **32 states and territories** have applied to DOE for full funding to launch their programs.
- ❖ These states and territories have applied for **\$5.3 billion** in funding.
- ❖ **10 states and the District of Columbia** have launched programs.

Supercharging Clean Industrial Innovation

Industrial Decarbonization

DOE's Office of Clean Energy Demonstrations (OCED) 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 increase U.S. competitiveness while reducing the equivalent of more than **14 million metric tons of carbon dioxide (CO₂)** emissions each year—equivalent to the annual emissions of **three 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. 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.



Creating High-quality, Accessible Careers



DOE investments are creating high-quality, good-paying jobs. 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.

For example, new investments will:

- ❖ Create over **2,900 new high-quality jobs** and help ensure over **15,000 highly skilled union workers** are retained through funding to support the conversion of **11 shuttered or at-risk auto manufacturing and assembly facilities**.
- ❖ Create **1,700 high-quality, good-paying jobs** in disadvantaged communities through funding to boost manufacturing of electric heat pumps and key heat pump components.

Impact Spotlight

American Autoparts, Inc (Mobis North America, LLC) in Toledo, Ohio

American Autoparts, Inc., a subsidiary of Hyundai Mobis Co., Ltd., has launched a project to bring electric vehicle manufacturing and jobs to Toledo, OH, with total investments expected to be \$65 million. Together, the Project will bring significant positive change to the greater Toledo, OH area, creating 223 new, high-quality, good-paying manufacturing jobs, 192 of which will be upskilled electrified manufacturing jobs.

Investing in Underserved Communities

DOE is ensuring the benefits of our 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

- ❖ **\$1.5 billion** has been announced in funding opportunities for energy communities.
- ❖ **Five projects** were selected by DOE's OCED for **\$475 million** to revitalize communities affected by coal mine or coal power plant closures focused on clean energy supply chains. To date, **three projects** have been awarded, committing **up to \$300 million across three states**.
- ❖ **\$428 million** in investments for **14 projects** selected by MESC for negotiation across **12 states** to revitalize communities affected by coal mine or coal power plant closures and ensure these communities are a core part of the manufacturing revolution needed to meet the energy technology needs of the future.

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. To date, **13 projects** have been awarded, committing **up to \$234 million across 13 states and seven Tribal Nations**.
- ❖ 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. To date, **14 grants** have been awarded, committing **up to \$64 million across 10 states and nine Tribal Nations**.

Tribes

- ❖ **\$596 million** for Tribes made available through formula funding.



Impact Spotlight

Thayer Creek Hydroelectric Project

Kootznoowoo, Inc. (KI) was awarded more than \$3.4 million (of the total project federal cost share of up to \$26.9 million) to begin Phase 1 activities. KI plans to construct an 850 kW, run-of-the-river hydroelectric project that has the potential to supply three times the community's current electricity needs, providing additional power for heating, fish processing, electric vehicle charging, and tourism. KI is the Alaska Native Village Corporation for the community of Angoon, the ancient home of the Tlingit Xóotsnoowe'di people. This is one of 17 projects selected via OCED's Energy Improvements in Rural or Remote Communities Program which aims to improve the resilience and affordability of energy systems in communities across the country with 10,000 or fewer people.

State, Local, and Tribal Clean Energy Partnerships

To date, **\$876.4 million** has been made available through formula funding and competitive grant opportunities for the State Energy Program and Energy Efficiency and Conservation Block Grant Program 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. To date, DOE has awarded a total of **more than \$200 million** in EECBG Program formula funding to **306 communities**. Additionally, the EECBG program has provided technical assistance to **1,005 communities**.

State Energy Program

DOE is expanding the long-standing State Energy Program to help every state and territory to manage their energy resources, accelerate gains in energy efficiency, and secure a reliable and resilient energy future. Through BIL investments, In total, DOE will provide **\$500 million** to the State Energy Program (SEP) and an additional **\$250 million** to establish Energy Efficiency Revolving Loan Funds (RLF) that provide low-cost capital to clean energy infrastructure projects. To date, SEP RLF has made **30 awards totaling over \$138.3 million**.

Impact Spotlight

Arkansas EECBG Program Formula Award

\$1.9 million will go to the State of Arkansas through the BIL funded EECBG program to establish a competitive sub-granting program for local governments with existing energy planning capacity to expand auto infrastructure and micromobility, promote clean energy workforce development, and conduct energy audits and retrofits in residential and commercial buildings.
