

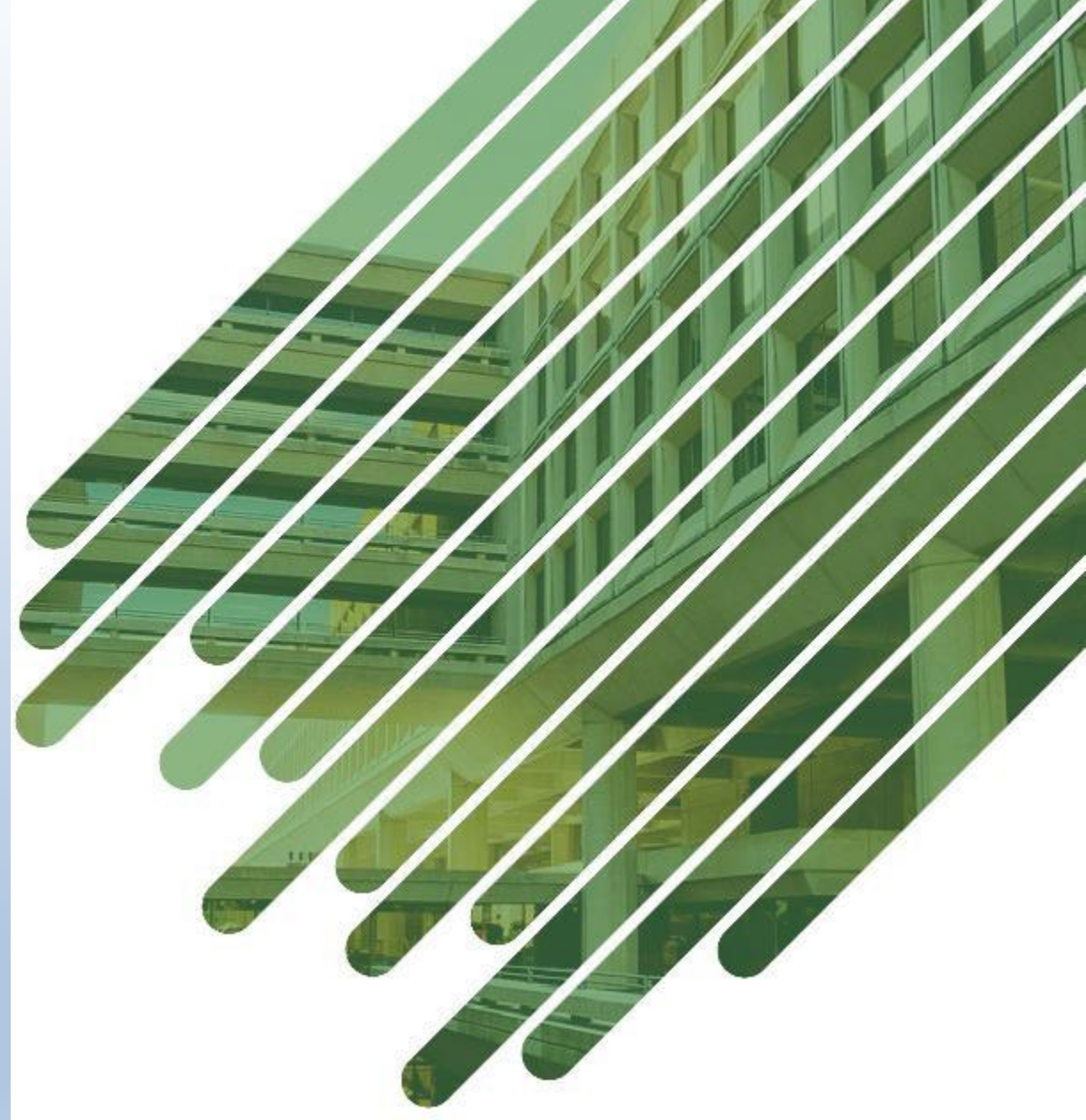


U.S. DEPARTMENT OF  
**ENERGY**

# **BIL and IRA Funding and Implementation**

**Crystal Perkins  
Regional Senior Advisor  
Office of Congressional  
and Intergovernmental Affairs**

**September 14, 2023**



# Agenda

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## Overview of BIL and IRA

- DOE Delivering for Texas
- Grant Application Process
- DOE's BIL and IRA Programs
- Technical Assistance and Resources

# Investing in America

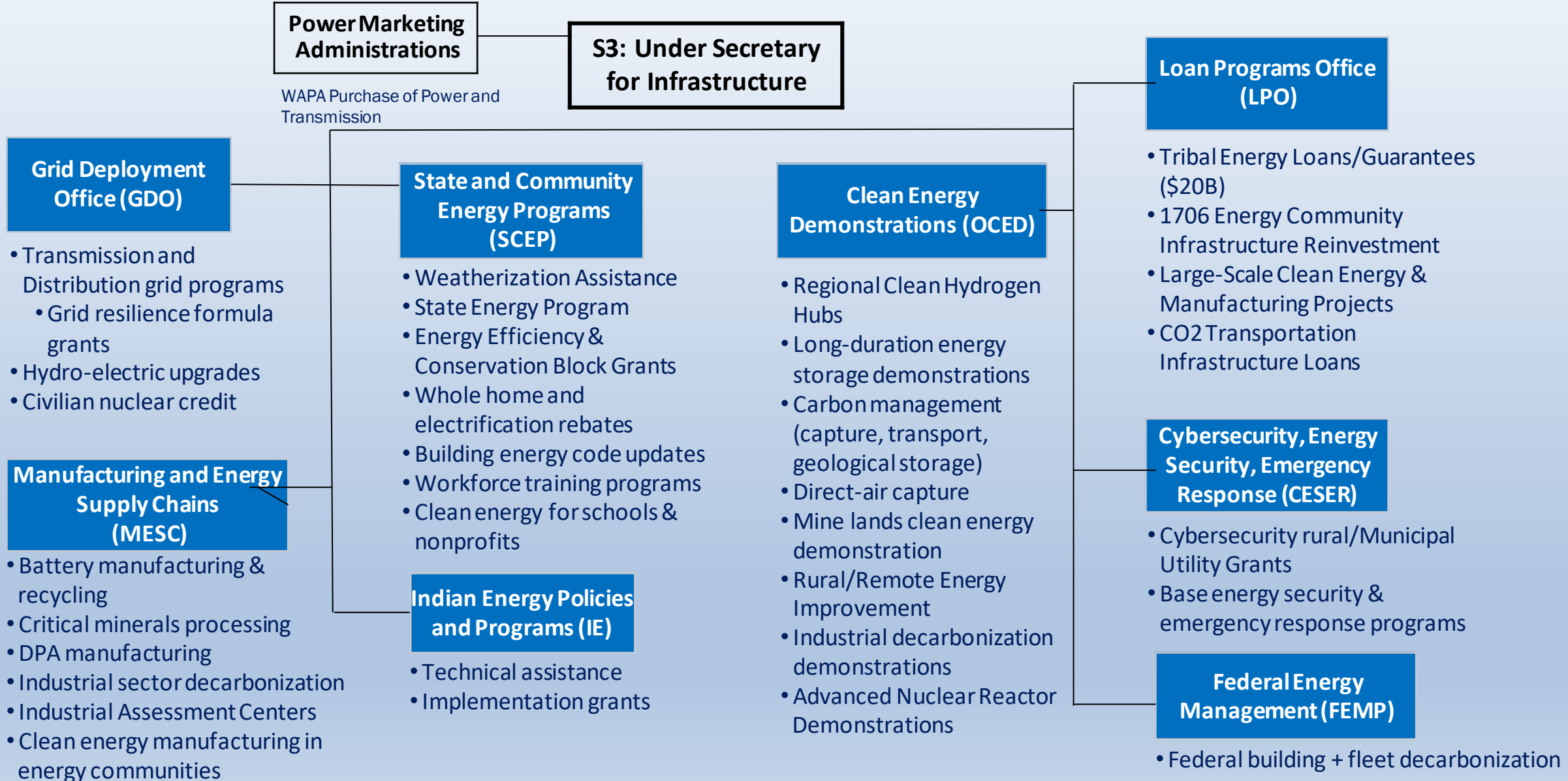
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- **Bipartisan Infrastructure Law** (Nov 2021) makes the largest long-term investment in our nation's infrastructure in nearly a century
- **CHIPS and Science Act** (July 2022) invests in cutting-edge science and innovation to boost American competitiveness, including for semiconductors, and to bring jobs and supply chains home
- **Inflation Reduction Act or IRA** (Aug 2022) breathes life into our clean energy economy by incentivizing deployment of clean technologies and lowering energy costs for American families

# Congress has given DOE new mandates and unprecedented funding



# DOE Offices Are Organized Around These New Investments



# Our Mission

Catalyzing the nation's equitable transition to a clean, secure, affordable, and resilient energy system



Lowering energy bills for households and businesses



Creating good jobs and boosting energy supply chains and domestic manufacturing



Advancing world-class, next generation clean energy technology demonstrations



Making the energy system more secure, reliable, and resilient



# We are embedding key DOE priorities into our work

- **Justice 40**  
Federal Government has made it a goal that 40 percent of the overall benefits of certain Federal investments flow to disadvantaged communities that are marginalized, underserved, and overburdened by pollution.
- **Diversity, Equity, Inclusion, and Accessibility**  
Equitable access to wealth building opportunities (teaming, access to good jobs, business and contracting opportunities, etc.)
- **Good Jobs**  
Create good-paying jobs to attract and retain skilled workers and ensure workers have a voice on the job over decisions that affect them (wages, working conditions, safety, etc.)
- **Workforce and Community Agreements**  
Meaningful engagement with community and labor partners leading to formal agreements



\*In most cases, Community Benefits Plans equate to 20% of the technical merit points for project proposals

# BIL and IRA are Delivering for Texas

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As of May 2023, **\$15 billion** in Bipartisan Infrastructure Law funding has been announced and is headed to Texas with **589 specific projects** identified for funding.



# Delivering for Texas

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**Clean Energy & Power:** The BIL makes a historic investment to upgrade our power infrastructure by making the grid more resilient and building thousands of miles of new transmission lines to deliver clean, affordable electricity. The law also makes a historic investment in clean energy technologies like advanced nuclear, clean hydrogen, carbon capture, and batteries, as well as a historic **\$3.5 billion investment in weatherization to improve energy efficiency of homes** and lower energy costs for impacted households by an average of \$372 per year.

● **Announced funding to date: ~\$310.2 million has been allocated to Texas** for clean energy, energy efficiency, and power in 2022 and 2023.

- **\$173.2 million** for the Weatherization Assistance Program
- **\$33.1 million** through the State Energy Program
- **\$29 million** through the Energy Efficiency and Conservation Block Grant Program
- **\$60.9 million** to prevent outages and make the power grid more resilient and additional grid funding will be made available in the coming months.

# Delivering for Texas

**-Electric Vehicle Charging:** The Bipartisan Infrastructure Law invests \$7.5 billion to build the first-ever national network of electric vehicle chargers. **Texas should expect to receive roughly \$408 million in formula funding over five years** to support the expansion of electric vehicle charging in the state

• **Announced funding to date: Texas has been allocated \$147.2 million in 2022 and 2023** to build out a network of EV chargers across the state.

**-Legacy Pollution Cleanup:** Across the country, thousands of former industrial, chemical, and energy sites emit harmful pollutants into surrounding communities. These sites pose harms to health, welfare, and economic prosperity — and disproportionately effect disadvantaged communities. **The Bipartisan Infrastructure Law will deliver the largest investment in tackling legacy pollution in American history by cleaning up Superfund and brownfield sites, reclaiming abandoned mines, and capping orphaned oil and gas wells.**

• **Announced funding to date: To date, approximately \$108.5 million has been allocated to Texas in 2022 and 2023 for capping orphaned oil and gas wells and reclaiming abandoned mine lands and \$12.5 million has been allocated to cleaning up brownfield sites.**

# Flowchart for Competitive Grants



Request for Information > Notice of Intent > Funding Opportunity Announcement > Selections > Negotiations > Awards

- Applications are reviewed and selected for award negotiation by civil servants with subject matter expertise
- DOE uses a merit-based review process for all competitive selections
- Given the merit-based nature of the process, DOE's ability to give non-public information or take meetings on specific projects is limited

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# **BIL and IRA Programs**

# Investing in Communities

## Energy Efficiency and Conservation Block Grants (EECBG)

Invests in clean energy and energy efficiency projects in more than 2,700 communities across the country—reaching 250 million Americans.

- Overview: Flexible-use grants for planning and deployment of energy efficient practices and technologies. These funds can be used to: conduct energy audits, making streetlights more energy-efficient, install renewable energy on government building, retrofit buildings, start up a community solar campaign, the possibilities are almost as wide as your proposals can offer up! Once you develop a strategy, vision and goals, program officers can help you through the application process.
- Funding: \$550 million
- Eligible Entities: States, local governments and Tribes
- Status: Applications are open for \$430M in formula grants. Submit [Pre-Award Information Sheet](#) by July 31 (but still accepting.)

# Energy Efficiency Conservation Block Grants (EECBG)

State of Texas allocation: **\$4,848,610**

Local government allocation: **\$24,102,500**

105 local governments are eligible for funds in TX.

**-All eligible local governments and allocations can be found here.**

**-EECBG Program Formula Grant Application Hub | Department of Energy**

## **OPTION #1: Vouchers: Grants**

Local governments submit an EECBG Program Formula Application and receive their funds as a grant to utilize on an eligible activity of their choice.

## **OPTION #2: Vouchers:**

In lieu of a grant, local governments can opt-in to a voucher, which covers either:

1. A suite of technical assistance services AND/OR
2. Equipment purchase and installation rebates. This could be particularly beneficial for entities with limited staff resources or small award amounts, as there is a lighter administrative / reporting burden.

## Renew America's Schools

- Overview: Grants to support energy infrastructure improvements at public school facilities that reduce building operating costs
- Funding: \$80 million
- Eligible Entities: Public schools/school districts
- Status: Applications closed in April; selections anticipated June 2023. Second round of funding expected FY24.

# Programs to watch for: [\(Sign up for my newsletter\)](#)

**Building Energy Codes**, will release an Administrative and Legal Requirements Document that will make up to \$400 million in funding available to States for improved building codes that reduce utility bills, increase the efficiency and resilience of buildings, and reduce carbon emissions through the IRA Funded Technical Assistance for the adoption and implementation of the latest and zero building energy codes.

**Sustainable Energy Resources for Consumers (SERC)** SERC is open to WAP Grantees and Subgrantees to expand their weatherization programs in materials, benefits and renewable technologies. SERC technologies can be installed without meeting the regular saving to investment requirements. SERC awardees have been approved to install technologies like solar panels, various heat pump technologies, cool roofs, air quality technologies and electrification readiness activities.

**Career Skills Training Program** funding opportunity for up to \$10 million. The program is designed to provide grants to pay the Federal share of career skills training programs under which students concurrently receive classroom instruction and on-the-job training for the purpose of obtaining an industry-related certification to install energy-efficient building technologies.

**Energy Future Grants** includes \$47 million in financial assistance cooperative agreements for local government-led partnership efforts that advance clean energy policy innovation in the power, building, and/or transportation sectors. EFG seeks to enhance energy access and affordability at the community level, ensuring the broad benefits of clean energy flow to disadvantaged communities.



# Domestic Manufacturing and Supply Chain

DOE released the first-ever strategy on securing the supply chain for a robust clean energy transition

Bipartisan Infrastructure Law grants and new Inflation Reduction Act Manufacturing Tax Credits make progress across clean energy supply chains

**Qualifying Advanced Energy Project Credit (48C) open for applications: [48c-exchange.energy.gov](https://48c-exchange.energy.gov)**

## Deep-Dive Assessment Report Topics

- Carbon capture materials
- Electric grid including transformers and high voltage direct current
- Energy storage
- Fuel cells and electrolyzers
- Hydropower including pumped storage hydropower
- Neodymium magnets
- Nuclear energy
- Platinum group metals and other catalysts
- Semiconductors
- Solar photovoltaics
- Wind
- Commercialization and competitiveness
- Cybersecurity and digital components

# Private Sector Uptake:

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- Tax incentives and competitive funding opportunities offer vast opportunities for the private sector to invest in the clean energy transition
- The increase in investments in solar, batteries, EV manufacturing, wind, and more show strong U.S. momentum
- Public-private sector innovation is creating a new generation of an energy job workforce in America. In 2022, the energy workforce outpaced the growth rate of the overall U.S. workforce, and clean energy jobs grew the fastest.

# Tax Credits:

Name	Summary
<b>Clean electricity investment and production credits (ITC, PTC)*</b>	Up to 30% of investment or \$27.5/MWh production tax credit for clean electricity or energy storage facilities, with stackable bonuses for project domestic content or locating in energy communities.
<b>Advanced Energy Project Investment Tax Credit (48C)</b>	\$10 billion to expand U.S. manufacturing capacity and create quality jobs for supplying and recycling clean energy technologies and critical materials, or for reducing industrial sector greenhouse gas emissions.
<b>Advanced Manufacturing Production Tax Credit (45X)</b>	Provides per-unit tax credit for clean energy components for: solar, wind, and battery components, inverters, and critical minerals.
<b>Clean Hydrogen Production Tax Credit (45V)*</b>	Production tax credit of \$0.60-\$3 per kilogram of qualified clean hydrogen. The cleaner the hydrogen the larger the credit.
<b>Carbon Dioxide Sequestration Credit (45Q)</b>	Expansion of 45Q tax credit for CCUS (electric power & industrial) and Direct Air Capture.
<b>Energy efficient commercial buildings deduction (179D)*</b>	Up to \$5 per square foot deduction for new construction or retrofits that install qualified energy efficient upgrades in commercial buildings.
<b>Commercial clean vehicles credit (45W)</b>	Up to \$7,500 for cars and up to \$40,000 for larger vans and trucks.
<b>Electric vehicle charging credit (30C)</b>	30% of investment or up to \$100,000 per charger for clean refueling property in low-income or non-urban areas
*Assumes project meets prevailing wage/apprenticeship requirement	

# Consumer Energy Savings Through IRA:

Consumer Tax Credits  
[energy.gov/save](https://energy.gov/save)



Consumer Rebates  
 through states and  
 tribes (coming soon)

- Home Efficiency Program
- Home Electrification and Appliance Rebate Program

Equipment type	Tax Credit Available for 2023-2032 Tax Years
<b>Home Clean Electricity Products</b>	
Solar (electricity)	30% of cost
Fuel Cells	
Wind Turbine	
Battery Storage	
<b>Heating, Cooling, and Water Heating</b>	
Heat pumps	30% of cost, up to \$2,000 per year
Heat pump water heaters	
Biomass Stoves	
Geothermal heat pumps	30% of cost
Solar (water heating)	
Efficient air conditioners*	30% of cost, up to \$600
Efficient heating equipment*	
Efficient water heating equipment*	
<b>Other Energy Efficiency Upgrades</b>	
Electric panel or circuit upgrades for new electric equipment*	30% of cost, up to \$600
Insulation materials*	30% of cost
Windows, including skylights*	30% of cost, up to \$600
Exterior doors*	30% of cost, up to \$500 for doors (up to \$250 each)
Home Energy Audits*	30% of cost, up to \$150
Home Electric Vehicle Charger	30% of cost, up to \$1,000**

\*Subject to cap of \$1,200/year

\*\* The IRS will soon publish further information on eligibility requirements related to home electric vehicle chargers, but we know that credits are intended for residents in non-urban or low-income communities.

# Lowering Costs & Improving Home Efficiency for Consumers

## Home Efficiency Rebates

- **Overview:** Rebate program administered by states and Tribes for consumers who purchase home energy efficiency upgrades that are predicted to save at least 20% of the home's energy use
- **Funding:** \$4.3 billion
- **Eligible Entities:** States, who then administer these programs to low- and moderate-income households
- **Status:** ALRD/ Guidance documents 1 & 2 are out. first tranche of funds to states expected late 2023/early 2024

<https://www.energy.gov/scep/home-energy-rebate-programs-frequently-asked-questions>

## Home Electrification & Appliance Rebates

- **Overview:** Rebate program administered by states and Tribes for consumers who purchase high efficiency home appliances and equipment
- **Funding:** \$4.5 billion
- **Eligible Entities:** States, who then administer these programs to low- and moderate-income households
- **Status:** ALRD/ Guidance documents 1 & 2 are out. first tranche of funds to states expected late 2023/early 2024

# Lowering Costs & Improving Home Efficiency for Consumers

## Frequently Asked Questions:

<https://www.energy.gov/scep/home-energy-rebate-programs-frequently-asked-questions>

- A homeowner can access rebates through the Home Efficiency Rebates program if a project was initiated on or after Aug. 16, 2022, only if the project fulfills all DOE and state program requirements.
- Home efficiency rebates, **are available to households of any income**. For households with a total annual income below 80% of the area median income (AMI), rebates can cover a higher percentage of the total project costs.
- Home Electrification and Appliance Rebates are available to:
  - (1) low- or moderate-income households,
  - (2) individuals or entities that own a multifamily building with low- or moderate-income households comprising at least 50% of the residents, and
  - (3) Governmental, commercial, or nonprofit entities that are carrying out projects for low- or moderate-income households or multifamily building owners.



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## Energy Savings Hub

[www.energy.gov/save](http://www.energy.gov/save)

The Energy Savings Hub is a comprehensive tool that shows consumers how they can save money on energy efficient appliances and equipment through tax credits and other incentives.



# Save Energy. Save Money. And Save the Planet Too.

Thanks to President Biden's Investing in America plan, it's easier than ever to take control of your energy costs, make your home safer and more comfortable, and help save the planet. No matter who you are or where you live, clean energy and energy efficient consumer choices are available now, and the Department of Energy is working to make them more affordable and accessible.



## Homeowners

Wondering where to start? Get up to \$150 off a professional home energy audit to map out the best ways you can save





## Homeowners

Wondering where to start? Get up to \$150 off a professional home energy audit to map out the best ways you can save money and energy in your home.

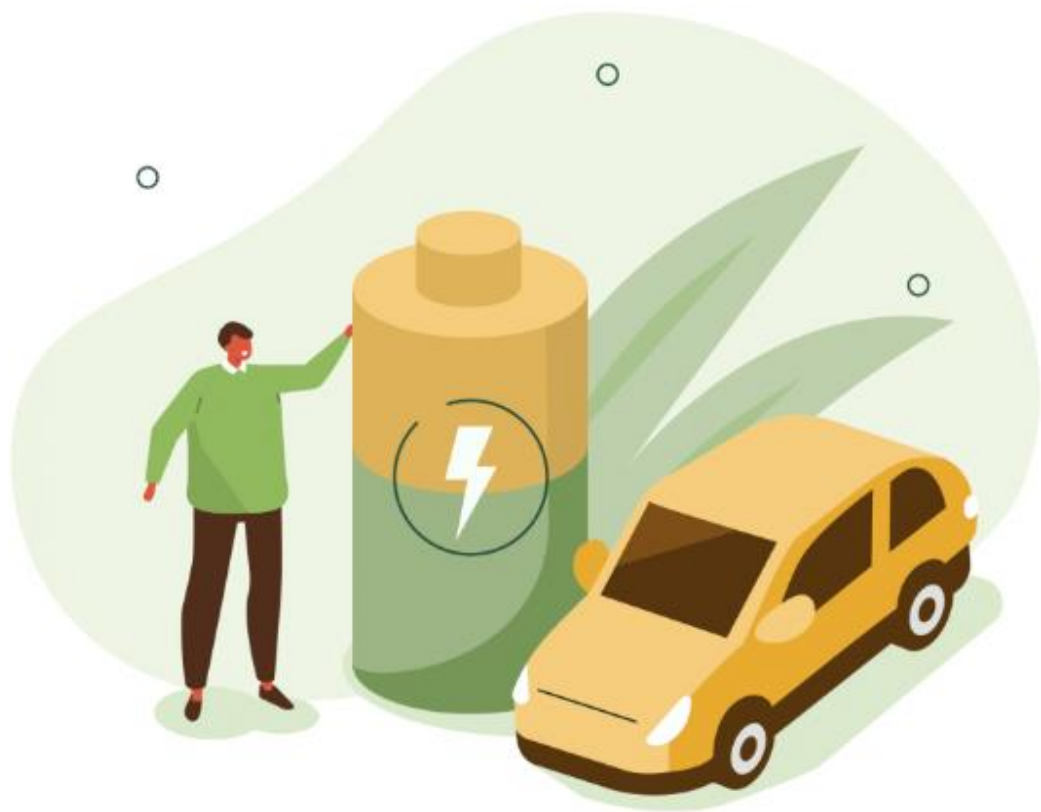
[Start saving >>](#)

# Renters

Discover renter-eligible incentives along with tips and tricks to cut your monthly energy costs and improve comfort at home.

[Start saving >>](#)





## Drivers

Thinking about purchasing a new or used clean vehicle?  
Wondering if you need a home electric vehicle (EV) charger?  
Worried about electric vehicle range? See how to qualify for electric vehicle incentives and learn about our work to build a nationwide, rapid-charge EV network that's accessible throughout the nation.

[Start saving >>](#)



## Energy Tax Credits and Rebates

Click through our flip cards below to find out which benefits are available to help you take control of your energy costs and make your home safer and more comfortable. **Use the Appliances, Electric Vehicles, and Home Improvement tabs to find incentives that meet your needs.**

# Loan Programs Office

INFLATION REDUCTION ACT OF 2022 | Department of Energy

## The Inflation Reduction Act & LPO

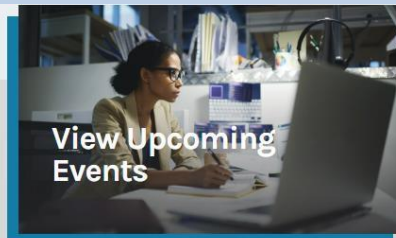
- ✓ Appropriates \$11.7 billion for LPO to support issuing new loans
- ✓ Increases existing loan program authority by approximately \$100 billion
- ✓ Appropriates \$5 billion for a new loan program—the Energy Infrastructure Reinvestment (EIR) Program—for up to \$250 billion in loans



# Technical Assistance and Engagement

## SCEP State and Local Solution Center

- Resource hub for state and local governments as well as K-12 school districts
- SCEP hosts a variety of webinars with a specific focus on soliciting stakeholder input and providing information to help apply for and deploy DOE programs effectively and efficiently
- <https://www.energy.gov/scep/slsc/state-and-local-solution-center>



## Other TA and Assistance

- While DOE cannot provide applicants assistance in filing out applications many programs have technical assistance options to help understand technology and project options.
- Partnerships with other agencies to provide TA, including through EPA's Thriving Community Technical Assistance Centers (TCTAC)

Sign up for the  
SCEP Newsletter here:  
[DOE Office of State and Community  
Energy Programs \(govdelivery.com\)](https://www.energy.gov/scep/slsc/state-and-local-solution-center)

# Stay Connected: [energy.gov/clean-energy-infrastructure](https://energy.gov/clean-energy-infrastructure)

Visit [energy.gov/clean-energy-infrastructure](https://energy.gov/clean-energy-infrastructure) for announcements and sign up for email updates.

Find funding opportunities and access detailed program information.

**Sign up for Updates**

To receive the latest news and updates about clean energy infrastructure funding opportunities, events, and resources, sign up for our newsletter and email updates.



Browse Frequently Asked Questions (FAQs) for answers to commonly asked questions.

## Clean Energy Infrastructure Programs at Department of Energy

Clean Energy Infrastructure » Clean Energy Infrastructure Programs at Department of Energy

Search:

DOE BIPARTISAN INFRASTRUCTURE LAW AND INFLATION REDUCTION ACT PROGRAMS

Showing 1 to 87 of 87 entries

PROGRAM NAME	DOLLARS
Advanced Energy Manufacturing and Recycling Grant Program	\$750,000,000
Advanced Industrial Facilities Deployment Program	\$5,812,000,000
Advanced Reactor Demonstration Program	\$2,477,000,000
Advanced Solar Energy Manufacturing Initiative	\$20,000,000

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**QUESTIONS? Please reach out!**

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