

# Clean Energy Investment: Key Programs

✓ The Inflation Reduction Act (IRA) represents the largest investment in US history into clean energy solutions, at **\$369B**



Home Energy  
Rebates

\$9B  
U.S. DOE



Energy Code  
Assistance

\$1B  
U.S. DOE



Clean Energy  
Business Loans

\$14B  
U.S. DOE



Energy Grid &  
Industry

\$9B  
U.S. DOE



Affordable  
Housing

\$1B  
U.S. HUD



Clean  
Transportation

\$7B  
U.S. EPA



Energy Tax  
Credits

~\$277B\*  
U.S. Treasury



Greenhouse Gas  
Reduction Fund

\$27B  
U.S. EPA



Enviro. Justice  
Block Grants

\$3B  
U.S. EPA



Rural Energy  
Assistance

\$12B  
USDA



Coastal Climate  
Resilience

\$2.6B  
NOAA



+ Other  
Programs

~\$7B  
Various Agencies

# Types



Tax Credits



Rebates



Grants and Loans

# Justice 40

*40% of overall benefits of certain Federal investments flow to disadvantaged communities that are marginalized, underserved, and overburdened by pollution*

- Embedded in IRA and BIL programs
- Includes BONUS funds/points for investments in affordable housing and in projects that serve low-income populations
- Provides **large set asides** and longer application periods for Tribes and includes programs designed for **Communities at High Risk** due to Climate Change
- Some programs specify that 100% of benefits be directed to low-income



# Build for the Future: HUD Exchange

## Build for the Future

Build for the Future empowers local communities to undertake initiatives focused on climate resiliency, energy efficiency, renewable energy, and environmental justice. It achieves this by providing critical access to funding opportunities, offering guidance materials, and fostering peer-to-peer knowledge sharing.

[Home](#) > [Programs](#) > [Build for the Future](#)



NEW



### Funding Navigator

This tool is a user-friendly searchable database for IRA, BIL, and other resources. Check out funding opportunities across federal agencies to support climate resiliency, energy efficiency, renewable energy integration, healthy housing, workforce development and environmental justice in HUD supported communities, programs and properties.

[Explore the Funding Navigator](#)



### Welcome to the Resources

Watch HUD's Climate Advisor explain how Build for the Future Resources and the Crosscutting Funding Navigator can help stakeholders use Inflation Reduction Act (IRA) and Bi-Partisan Infrastructure Law (BIL) funds to reduce energy use and strengthen resiliency in communities.

[View Video](#)



### Highlighted Project

Foundation Communities built the LEED™ Gold certified Waterloo Terrace, a 132-unit permanent supportive housing property for seniors in Austin, Texas. The site includes a 180 kW solar array that avoids 220 metric tons of CO<sub>2</sub> emissions annually and reduces operating costs, allowing them to reinvest back into their residents. [Learn more.](#)



### Guides and Tools

- [HUD Community Resilience Toolkit](#)
- [Multifamily Utility Benchmarking Toolkit](#)
- [Guide to Energy Efficiency and Renewables](#)
- [Renewable Energy Toolkit](#)
- [Solar Readiness Assessment](#)

<https://www.hudexchange.info/programs/build-for-the-future/>

# HUD Resources: Topical Handouts

- Energy Efficiency
- Solar
- Building Standards
- Benchmarking
- Resilience
- Workforce Development

## Energy Efficiency

Promoting Sustainability and Decarbonization



There are new resources for energy efficiency improvement in buildings. This guide provides background information on opportunities and resources to help HUD program participants invest in their properties by:

- Describing the importance of energy efficiency and connecting energy efficiency to other sustainability and decarbonization concepts;
- Providing resources and background on how to implement energy efficiency measures; and
- Identifying funding that can be used to support energy efficiency projects.

### Why is energy efficiency important?

Energy efficiency projects can reduce a building's overall energy usage in a variety of ways. Two major benefits include decreased utility costs and reduced greenhouse gas emissions. New construction and existing buildings can gain long-term financial and environmental benefits from implementing these common energy efficiency measures:

- **Sealing the building envelope** to reduce a building's heating or cooling needs;
- **Upgrading electrical panels and wiring** to support renewable energy or building decarbonization;
- **Installing more energy efficient appliances** to reduce energy load; and
- **Investing in efficient heating and cooling systems** that use less electricity.

What energy efficiency measures are chosen is generally a part of an **energy management plan**, created from **benchmarking** data and developed from goals set by the **energy standard** selected.

Energy efficiency is often the first step to other sustainability and decarbonization work. Modernizing a building's electrical system may be required before **renewable energy** can be installed. Decreasing energy usage helps reduce the strain on the electrical grid, keeping it up and running during extreme weather events which contributes to **climate resilience**.



### Energy Efficiency in Action: The Warwick, Newport News, Virginia

Community Housing Partners renovated a 4-story historic brick hotel into a housing development for people who were formerly homeless containing 88 single-occupancy rooms. Their projects focused on improving energy efficiency and indoor air quality; they reduced annual energy usage by 50% and costs by \$40,000. The improvements included a variable refrigerant flow heating & cooling system; energy recovering ventilators; high efficiency water heaters; and ENERGY STAR windows, lights, and appliances. Additionally, the brick restoration prevents air leaks, which improves the building's envelope.

## Energy efficiency resources available to HUD communities

### Background on Energy Efficiency Improvements:

- **Improving a building envelope** through insulation and sealing gaps reduces energy usage by minimizing the loss of heat in the winter and the loss of cool air in the summer. This process is also called **weatherization** because it helps protect a building and its occupants from the impacts of weather. Examples of improvements to weatherize your home include installing **energy efficient windows, door sealing, duct sealing, and insulation**.
- **Upgrading electrical systems** increases the capacity for, and overall efficiency of, electricity usage in a building. This enables a building owner to implement more advanced electrical projects such as **efficient electrical appliances** or renewable energy systems.
- **Heating and cooling systems** can be upgraded to more energy efficient models, such as **heat pumps, biomass stoves, and water heaters**. These appliances reduce energy consumption and provide an even larger benefit when combined with weatherization.

### Funding Opportunities:

- **Home Energy Rebates Program** under the Inflation Reduction Act (IRA) is funded by the Department of Energy (DOE), implemented through state and Tribes. The program has two components:
  - **Home Electrification and Appliance Rebates** provide funds for purchasing efficient electric home appliances, such as electrical stoves and electric heat pumps, and for electric service upgrades that facilitate building electrification.
  - **Home Energy Efficiency Rebates** provide funds for whole-house energy saving retrofits, such as building envelope sealing. Applicants will only receive the rebate if a certain level of energy savings is demonstrated, making this a program that requires benchmarking.
- **Weatherization Assistance Program (WAP)** funded by DOE provides grants to states and Tribes to work with local governments and residents to implement weatherization measures. WAP promotes energy efficiency by funding insulation and building envelope sealing projects.
- **Energy Savings Performance Contracts** allow a building owner to pay for the cost of energy efficiency projects through the resulting energy savings—**eliminating up-front costs**. A third party **Energy Services Company** is a project partner that helps plan, finance, install, and monitor projects.
- **Energy Efficiency Home Improvement Tax Credits (25C)** can help building owners offset the cost of energy efficiency measures. Improvements in the three categories above are all eligible.

For additional information the DOE [Energy Savings Hub](#) describes how to fund specific energy efficiency measures, and the [DSIRE](#) tool provides information about state policies and incentives.

For more funding opportunities, visit the [Build for the Future Funding Navigator](#) on the HUD Exchange and select the "Energy Efficiency and Renewables" project type in the first drop-down box and the "Energy Efficient Buildings" project subtype in the second drop-down box.

These Resources are just the start! Look for other information that match your needs here:

[Build for the Future](#) — A wealth of technical resources on energy efficiency and resilience

[Build for the Future Funding Navigator](#) — A user-friendly searchable database for IRA and BL

grants



# Funding Navigator

## Find Funding Opportunities

The Funding Navigator provides a listing of funding opportunities under the Inflation Reduction Act (IRA), Bipartisan Infrastructure Law (BIL), and others across federal agencies to support efforts to enhance climate resiliency, energy efficiency, renewable energy integration, healthy housing, workforce development and environmental justice in HUD supported communities, programs and properties. Find open and upcoming opportunities, including funding status and where to apply, for funds to implement projects that reduce energy use and strengthen resiliency in communities. In the Navigator, some grants are separated into levels. This helps identify how to apply in situations where original grantees (Level 1 grantees) are tasked with making subgrants to others (Levels 2 and 3).

Project Type: Energy Efficiency and Renewables

Project Subtype: Building Electrification and Decar...

Audience: Housing Authority

States and Territories:

Funding Type:

Funding Stage:

Search by keyword: [ ]

Search [ ] Reset [ ]

Energy Efficiency and Renewables

Building Electrification and Decarbonization

Housing Authority

## Results

Project Type	Program	Funding Type	Funding Stage	Eligible Uses	Where to Apply
Energy Efficiency and Renewables; Transport; Utility Scale Energy	<a href="#">Energy Tax: Direct (Elective) Pay Tax Credit (6.6417)</a> Elective (Direct) Pay allows states, local governments, non-profits, and other eligible entities to access clean energy tax credits by providing a direct (elective) pay of tax credits to the applicant under programs in IRS sections 30C, 45(a), 45Q, 45U(a), 45V(a), 45W, 45X, 45Y, 45Z, 48, 48C, 48E.	Tax Credit	Guidance Published:	The eligible use depends on the underlying tax credit the applicant is accessing through use of Direct (Elective) Pay.	File with IRS. See Guidance: <a href="#">agency website</a>