



CLIMATE POLLUTION REDUCTION GRANTS

U.S. Environmental Protection Agency

Beyond Measures: Leveraging Federal Funding Opportunities for CCAPs

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U.S. Environmental Protection Agency

Beyond Measures: Leveraging Federal Funding Opportunities for CCAPs

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**U.S. Department
of Transportation**



Finding and Succeeding with Federal Discretionary Transportation Grants

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Quick Overview of Federal Transportation Opportunities

1. Funding available through the Bipartisan Infrastructure Law (BIL) / Infrastructure Investment and Jobs Act (IIJA)
2. Finding Grant Opportunities
3. Tips for successful grant applications
4. Additional technical assistance resources

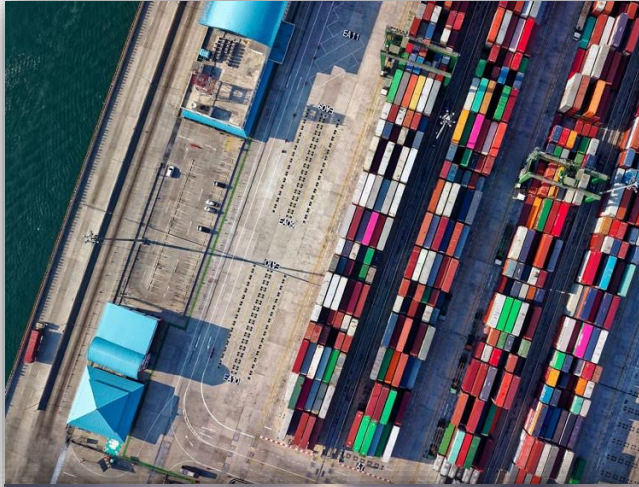
Historic federal funding for transportation infrastructure



U.S. Department
of Transportation

The Infrastructure Investment and Jobs Act in Brief

Top areas of investment:



**Roads, Bridges, and
Major Projects**
\$110 Billion

Public Transit
\$89.9 Billion

**Electric Vehicles
and Buses**
\$15 Billion

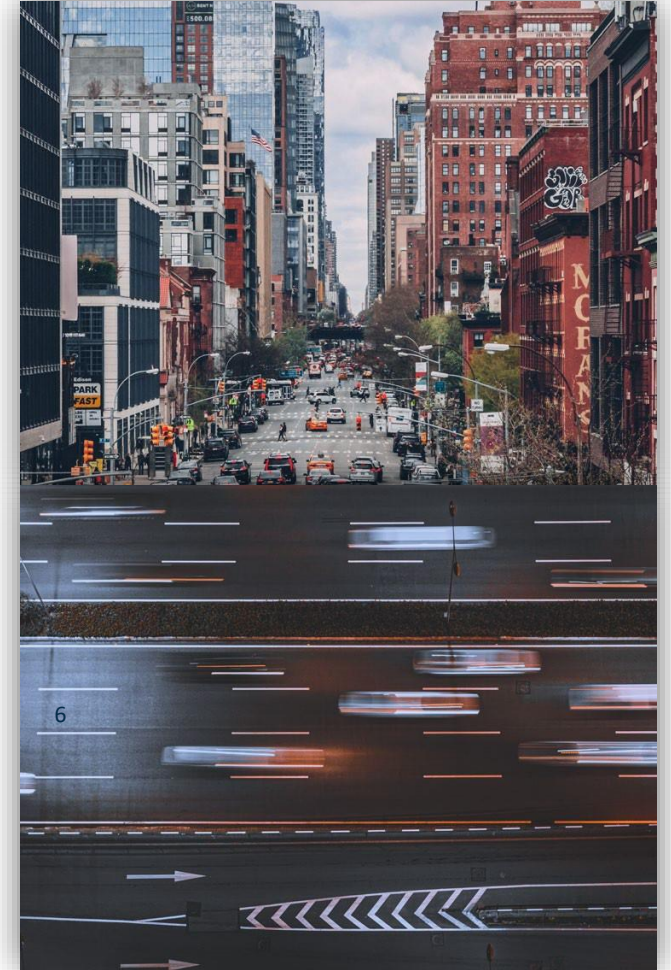
**Environmental
Remediation and
Power Infrastructure**
\$86 Billion

**Transportation
Safety**
\$11 Billion

**Passenger and
Freight Rail**
\$66 Billion

**Airports, Ports,
and Waterways**
\$42 Billion


**Other Areas of
Investment**
\$121 Billion



Since November 2021, the Bipartisan Infrastructure Law has enabled over \$400 billion invested in over 40,000 projects in more than 4,500 urban, rural, and Tribal communities!

Investing in America's Future

Total transportation funding in five-year Bipartisan Infrastructure Law is more than \$660 billion

 Bridge Improvement Program:	\$44 billion (5-years)
 Charging Grants:	\$7.5 billion
 PROTECT formula and discretionary grants:	\$8.7 billion
 Reconnecting Communities:	\$1 billion
 Safe Streets and Roads for All:	\$6 billion
 National infrastructure Investments (Megaprojects):	\$15 billion
 Local and regional project assistance (RAISE):	\$15 billion
 Nationally Significant Freight & Highway Projects (INFRA):	\$14 billion
 Strengthening Mobility and Revolutionizing Transportation (SMART):	\$1 billion

Majority of funding (approx. 60%) flows through formula funds to state departments of transportation, transit agencies, and other transportation direct recipients. DOT is managing dozens of new competitive discretionary grant programs.

State-specific Example: Investing in *California*



- To date, **\$42.5 billion** in Bipartisan Infrastructure Law funding has been announced and is headed to California with **over 1898 specific projects** identified for funding.
- **Road, Bridge and Safety Improvements**
 - **\$30.1 billion** has been announced in California for roads, bridges, roadway safety, and major projects, including:
 - \$17.3 billion for roads and bridges, \$5.9 billion for public transit, \$12 billion for airports, \$284.5 billion for ports and waterways.
 - **\$20 million through the RAISE program** for the City and county of San Francisco to construct transit and active transportation improvements in Bayview.
- **Investments in clean transportation, such as:**
 - **\$988.9 million** for EV chargers, clean transit buses, and clean school buses.
- **Resilience Project Spotlight: The Golden Gate Bridge Transportation District** was awarded \$400 million to replace, retrofit, and install critical structural elements on the bridge to increase resiliency against earthquakes.

City Project Snapshot – San Francisco

Safe Streets and Roads for All FY23

Tenderloin Community Safe Streets Project

Award: \$10,000,000

The City of San Francisco, California, is awarded funds to address pedestrian safety issues in the Tenderloin, where pedestrians are 10 times more likely to be injured or killed by a car than elsewhere in the city. Collisions are distributed throughout the neighborhood, and every street in the Tenderloin is on the City's HIN. The primary collision factors are running a red light, speeding, not yielding to pedestrians at a crosswalk, and unsafe turns. Tenderloin is home to vulnerable populations, such as seniors and people with disabilities, who typically travel to nearby senior centers, public libraries, churches, and public health facilities.

Pilot Program for Transit-Oriented Development FY22

Peninsula Corridor Joint Powers Board

Award: \$650,000

The Peninsula Corridor Joint Powers Board (Caltrain) will receive funding to plan for TOD at its 20-acre 4th and King railyard. The agency will include public engagement and neighborhood planning, and assess how to create more housing, bicycle and pedestrian access, and better connectivity.

Thriving Communities Program Support Underway for Communities Across the US

This year, DOT awarded **\$23.6 million** to **three national and 6 regional Capacity Builders** to provide support to **52 communities** located across **35 states**, including **6 Tribal Nations**, and **Puerto Rico**.

Of the **52** communities selected for the National program...

27%

have never
applied for a DOT
grant

25%

have applied but have
not been successful in
obtaining a DOT grant

48%

have been awarded
at least one DOT
grant in the past

87%

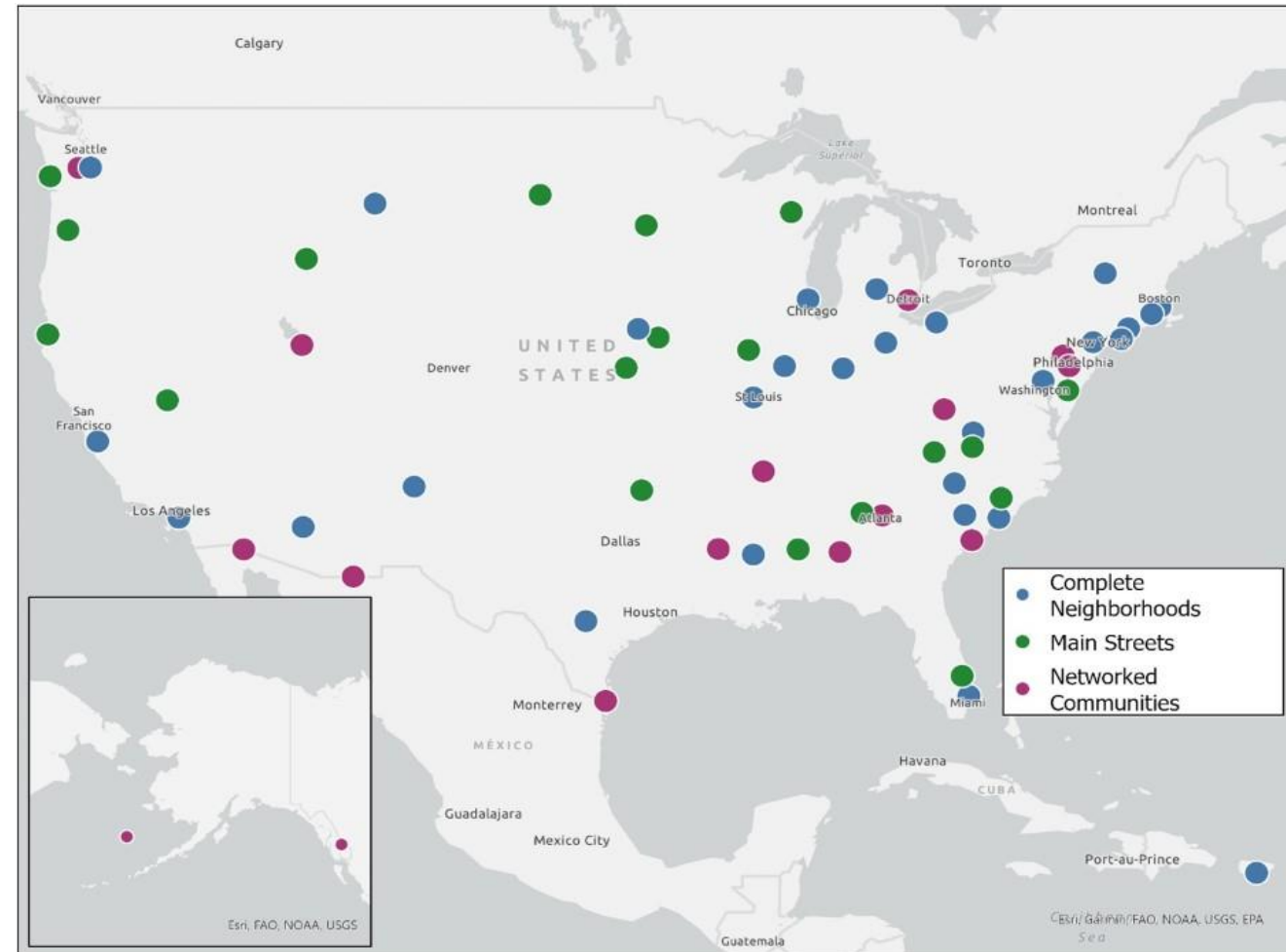
are disadvantaged*

73%

have local
government TCP
leads

56%

are in a rural area



Map of FY 2022 Thriving Communities Program selected communities

*According to the Climate & Economic Justice Screening Tool

Finding and Applying to USDOT Grants



U.S. Department
of Transportation

DOT Navigator – One Stop Shop



Search Technical Assistance Resources

At DOT, “technical assistance” includes programs, processes, and resources that provide targeted support to a community, region, organization, or other beneficiary to help them access and deploy federal funding and build local capacity to develop, design, and deliver transportation plans and projects.

View and search the table below to find existing technical assistance resources and programs funded or managed by DOT that can provide deeper levels of assistance, technical information, best practices, and training.

Keywords

Advanced options

Stakeholder Type(s)
Select All

- ☐ Contractor
- ☐ Local Government
- ☐ Other
- ☐ Regional/Metro Planning Orgs (MPO)
- ☐ State DOT
- ☐ Transit Agency
- ☐ Tribal Government
- ☐ U.S. Territory

Resource Type(s)
Select All


- ☐ Direct Support
- ☐ Fact Sheet
- ☐ Grant
- ☐ Guidance Document
- ☐ Report
- ☐ Resource Center
- ☐ Toolkit
- ☐ Training
- ☐ Video/Webinar






Transportation Mode(s)
Select All

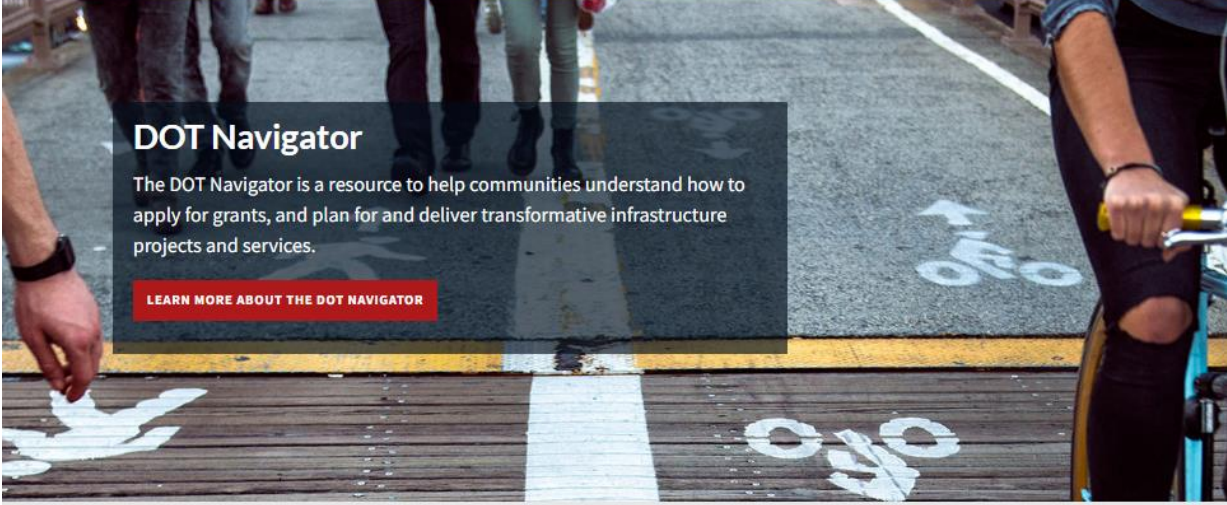
- ☐ Air (airports, aviation, drones)
- ☐ Bicycle
- ☐ Electric or Autonomous Vehicles
- ☐ Highway
- ☐ Intelligent Transportation and Data Systems
- ☐ Micromobility (bike share, scooters, etc.)
- ☐ Pedestrian
- ☐ Ports
- ☐ Railway
- ☐ Transit

Apply

<https://www.transportation.gov/dot-navigator>

 U.S. Department of Transportation

ABOUT DOT ▾ PRIORITIES ▾ CONNECT ▾ 🔍     




DOT Navigator

The DOT Navigator is a resource to help communities understand how to apply for grants, and plan for and deliver transformative infrastructure projects and services.

[LEARN MORE ABOUT THE DOT NAVIGATOR](#)


Spotlight on Technical Assistance Resources

Check out the featured technical assistance resources below and view a [searchable list of technical assistance resources](#).




BIL Funding Guidance for Local and Tribal Agencies

Find BIL funding information from FHWA for local and Tribal agencies



Funding Safety for All through Complete Streets Networks

Explore federal funding opportunities for your Complete Streets Network



Bipartisan Infrastructure Law (BIL) Launchpad

Find information on available funding and get technical support



- [DOT Navigator Home](#)
- [Grant Application Resources](#) >
- [Technical Assistance Resources](#)
- [Learn About the Bipartisan Infrastructure Law](#)
- [Find Transportation Contacts Near You](#)
- [ROUTES Home](#)


Related Links

- [FHWA Tribal Funding Opportunities](#)
- [EV Funding Opportunities](#)
- [National Roadway Safety Strategy](#)
- [J40 Initiative](#)

DOT Discretionary Grants Dashboard

The DOT Discretionary Grants Dashboard provides communities with an overview of discretionary grant opportunities that can help meet their transportation infrastructure needs. Designed with all communities in mind, the Dashboard identifies grant programs with rural and Tribal set-asides or match waivers available. The Dashboard also includes Federal grant programs outside of DOT that may be of particular interest to rural communities. An updated Rural Grant Applicant Toolkit will soon be published to help rural communities harness the Dashboard. The Dashboard is updated weekly.

[The DOT Navigator](#) is a resource to help communities understand the best ways to apply for grants, and to plan for and deliver transformative infrastructure projects and services.

 [Download CSV](#)

Keywords

Eligible Activities

- Any - ▾

Eligible Applicants

- Any - ▾

Agency/Office

- Any - ▾

Transportation Type

- Any - ▾

Match Waiver

- Any - ▾

Rural Set-Aside

- Any - ▾

Tribal Set-Aside

- Any - ▾

Status

- Any - ▾

Apply

HIGHLIGHTS

- 90+ grant programs
- Covers DOT and Non-DOT Agencies
 - 8 DOT Agencies
 - 10+ Non-DOT Agencies
- Multiple search filters
 - Keyword
 - Eligible Activities
 - Eligible Entities
 - Transportation Type
 - Match Waiver
 - Status (Open/Closed)
- Customized features for Rural and Tribal communities
- Save results as Excel csv file

Key Notices of Funding Opportunity

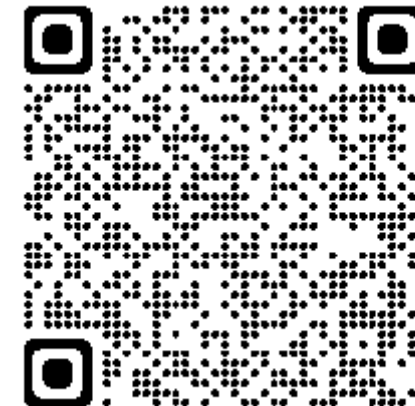
In order to provide stakeholders with more visibility into upcoming funding opportunities, DOT is publishing a list of anticipated dates for upcoming Notices of Funding Opportunity (NOFOs) for key programs within the Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act (IRA), as well as adjacent programs that support BIL and IRA objectives. This list is not comprehensive and will be updated periodically with additional programs and revised dates as appropriate.

The [USDOT Discretionary Grants Dashboard](#) provides communities with an overview of discretionary grant opportunities that can help meet their transportation infrastructure needs.

Opening Date	NOFO	Operating Administration/Office	Closing Date (to be added for each program after the NOFO is issued)
Large Bridge NOFO: September 27, 2023	Bridge Investment Program	Federal Highway Administration	Large Bridge: August 1, 2024
Bridge Projects: December 20, 2023	Bridge Projects	Federal Highway Administration	Bridge Project Grants: 11/1/2024 Planning Project Grants: 10/1/2024
Bridge Planning Grants: December 20, 2023	Planning and other Bridge Projects		
January 2024	State Electronic Data Collection	National Highway Traffic Safety Administration	5/1/2024
2/8/2024	Buses and Bus Facilities Program	Federal Transit Administration	4/25/2024
2/8/2024	Low or No Emission (Bus) Grants	Federal Transit Administration	4/25/2024
2/21/2024	Congestion Relief Program	Federal Highway Administration	4/22/2024
2/21/2024	Safe Streets and Roads for All (SS4A)	Office of the Secretary	Planning & Demonstration: 5/16/2024

USDOT's Bipartisan Infrastructure Law (BIL) homepage includes a link to the calendar of upcoming funding opportunities.

- Updated monthly!
- Projected NOFO openings
- Links to Grants.Gov entry
- Shows dates that application deadlines



Key Open/Upcoming Funding Opportunities

- **Safe Streets and Roads for All (SS4A):** Over \$3 billion for 2024-2026 funding rounds is available. The FY24 SS4A NOFO has multiple application deadlines depending on the grant type. Implementation Grant applications must be submitted by ~~Thursday, May 16, 2024~~. Planning and Demonstration Grant applicants have three deadlines: ~~April 4, May 16, and August 29, 2024~~ (by 5:00 p.m. ET). Presentation slides and webinar recordings are posted on the SS4A Webinar Series page.
- **Reconnecting Communities Pilot (RCP) Program:** \$607 million to advance and support reconnection of communities divided by transportation infrastructure – with a priority on helping disadvantaged communities improve access to daily needs closes **September 30, 2024** (by 11:59 p.m. ET).
- **Rural and Tribal Assistance Pilot Program:** \$10 million available over five years to provide states, local governments, and tribal governments with grants to support project development leading to future applications to DOT credit or grant programs. NOFO announcement expected in **September 2024**.
- **Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation (PROTECT):** \$1.4 billion in funding over 5 years for highway, transit, and certain port projects that include resilience planning. NOFO announcement expected in **September 2024**.



Decoding the Grant Process

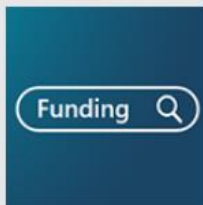
DOT Navigator: Focus on Helping to Develop Strong Discretionary Grant Applications

What Do You Want to Do?



PREPARE A SUCCESSFUL GRANT APPLICATION

Get planning tips, checklists, and information on applying for federal grants



FIND FUNDING OPPORTUNITIES

Search grant opportunities to meet your community's transportation needs



GET TECHNICAL ASSISTANCE RESOURCES

Find resources to get funding and build capacity to do transportation projects



LEARN ABOUT FUNDING AND MATCH

Learn about USDOT grant funding, including match requirements and flexibilities



ACCESS DATA AND MAPPING TOOLS

Access data and mapping tools to help write a strong grant application



LEARN ABOUT THE BIPARTISAN INFRASTRUCTURE LAW

Get information to help access BIL funding programs

Spanish

- [Solicitud de subvenciones del USDOT](#)
- [Visión general de fondos del DOT y financiamiento](#)
- [Comprendiendo los requisitos no federales de pareo](#)
- [Herramientas federales para identificar comunidades desfavorecidas](#)
- [Financiamiento federal para transporte: Lista de cotejo de preparación de subvenciones "grants" discrecionales para posibles solicitantes durante el año fiscal 2023](#)
- [Lista de cotejo para solicitudes de subvención que alcancen una fuerza laboral de transporte sólida y un plan laboral](#)
- [Uso de Fondos del DOT para la Participación Pública](#)
- [¿Es el financiamiento federal el adecuado para mi organización?](#)

Sign Up to Get Bi-Weekly DOT Navigator Email Bulletins to Stay in the Know about new technical assistance resources, trainings and funding opportunities across a range of transportation topics!



Use Data to Tell a Compelling Story



Disclaimer: This curated list of federal data and mapping tools is maintained on the DOT Navigator website as a secondary source and does not supersede primary materials issued by each USDOT Operating Administration. USDOT does not promote one resource over another. Accordingly, please work directly with the USDOT Operating Administration managing the BIL discretionary grant program for specific guidance.



General Dataset and Mapping Tools

[General Dataset and Mapping Tools](#) provides an interactive way to explore and analyze population characteristics of a geographic area to help identify the need for a project, including to identify populations that may be covered by Title VI and Civil Rights federal requirements.



Climate Change, Air Quality, and Sustainability Analysis Tools

[Climate Change, Air Quality, and Sustainability Analysis Tools](#) provides resources for measuring transportation greenhouse gas emissions and air quality impacts, and incorporating climate adaptation and resilience features as they relate to a proposed project.



Equity and Justice40 Analysis Tools

[Equity and Justice40 Analysis Tools](#) provides resources to identify a disadvantaged community that may face transportation burdens or be impacted by climate change, pollution, environmental hazards, and other social or economic impacts to analyze how a potential project may reduce those identified inequities. These tools can also be useful for analysis needed to address Title VI and Civil Right compliance.



Safety Analysis Tools

[Safety Analysis Tools](#) provides resources to help analyze and convey safety benefits and risks, demonstrate safety needs in a community, and communicate the overall impact of a proposed project.



Specialized Data Resources

[Specialized Data Resources](#) provides information often needed to prepare a benefit-cost analysis and examine recommended monetized values, and other resources specific to intelligent transportation systems.



Transportation Analysis Tools

[Transportation Analysis Tools](#) provides resources to better understand, plan for, and convey trends around efficiencies—including connectivity, access, and frequency—across a transportation system.



U.S. Department
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Additional USDOT's Technical Assistance Resources



U.S. Department
of Transportation

Build America Bureau + OST Technical Assistance Grant Programs



Innovative Finance and Asset Concessions

- 5-year program (\$100 million total)
- Help project sponsors identify underutilized assets with potential to generate economic development
- Increase capacity to utilize innovative financing and project delivery and form partnerships with private sector

Thriving Communities Program

- \$25 million in FYs 2022 and in FY2023 (\$50 million total)
- 2 yrs personalized technical assistance and subgranting
- Support disadvantaged + lower-capacity communities across project planning, scoping, development, design, and delivery

Reconnecting Communities Institute

- DOT's center for learning to restore and reconnect communities that have been harmed, isolated, and cut off from opportunity by transportation infrastructure, with training and TA
- Can enroll, even if not applying now for a Reconnecting grant!

Rural and Tribal Assistance

- 5-year pilot program (\$10 million total)
- \$3.4 million awarded to 13 communities, including 7 Tribes
- Advance early project development by funding technical, legal and financial activities
- \$25 million NOFO from FY24 appropriations coming Sept 2024

Regional Infrastructure Accelerators

- \$34 million awarded to 24 recipients
- Build capacity to incubate good projects and accelerate delivery through innovative approaches
- Assistance in project planning, revenue forecasting, preliminary engineering and design, + statutory and reg compliance analyses
- \$10 million NOFO from FY24 appropriations coming Sept 2024

Pedestrian and Bicycle Funding Opportunities: U.S. Department of Transportation Highway, Transit, and Safety Funds

November 16, 2023

This table indicates likely eligibility for pedestrian and bicycle activities and projects under U.S. Department of Transportation surface transportation funding programs. Activities and projects need to meet program eligibility requirements. See notes and basic program requirements below, with links to program information. Project sponsors should integrate the safety, accessibility, equity, and convenience of walking and bicycling into surface transportation projects.

	Pedestrian and Bicycle Funding Opportunities: Highway, Transit, and Safety Funds																														
	Key: \$ = Activity likely eligible. Restrictions may apply, see program notes and guidance. ~\$ = Eligible, but not competitive unless part of a larger project.																														
	Federal Highway Administration													Federal Lands			OST Grant						OST Loan		FTA		NHTSA				
Activity or Project Type	ATIP	BR	CRP	CMAQ	HSIP	RHCP	NHPP	PROT	STBG	TASA	RTP	SRTS	PLAN	NSBP	FLTP	TTP	TTPSF	INFRA	RAISE	RCA	SS4A	SMART	Thrive	RRIF	TIFIA	FTA	AoPP	TOD	402	405	
Access enhancements to public transportation (benches, bus pads, lighting)	\$		\$	\$			\$	\$	\$	\$				\$	\$	\$		\$	\$	\$	~\$				~\$	~\$	\$				
Americans with Disabilities Act (ADA)/504 Self Evaluation / Transition Plan	\$		\$						\$	\$	\$		\$		\$	\$					\$		TA				\$	~\$			
Barrier removal for ADA compliance	\$	\$	\$				\$	\$	\$	\$	\$	\$		\$	\$	\$		\$	\$	\$	~\$				~\$	~\$	\$				
Bicycle plans	\$		\$				\$	\$	\$			\$	\$		\$	\$	\$				~\$	\$					\$	\$	~\$		
Bicycle helmets (project or training related)	~\$				\$				\$	\$SRTS		\$				\$														\$	
Bicycle helmets (safety promotion)	~\$				\$				\$	\$SRTS		\$				\$															
Bicycle lanes on road	\$		\$	\$	\$	\$	\$	\$	\$	\$		\$		\$	\$	\$	\$	~\$	~\$	\$	\$				~\$	~\$	\$				
Bicycle parking (see Bicycle Parking Solutions)	\$		\$	\$			\$		\$	\$	\$	\$		\$	\$	\$		~\$	~\$	\$	~\$				~\$	\$	\$				
Bike racks on transit	\$		\$	\$					\$	\$					\$	\$				~\$	\$	~\$				~\$	\$				
Bicycle repair station (air pump, simple tools, electric outlets)	\$		\$						\$	\$					\$	\$			~\$	\$	~\$				~\$	~\$	\$				
Bicycle share (capital and equipment including charging stations and outlets; not operations)	\$		\$	\$			\$		\$	\$					\$	\$		~\$	~\$	\$	~\$				~\$	~\$	\$				
Bicycle storage or service centers (e.g. at transit hubs) including charging stations and outlets; not operations)	\$		\$	\$					\$	\$					\$	\$				~\$	\$	~\$			~\$	\$	\$				
Bridges / overcrossings for pedestrians and/or bicyclists	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			\$	\$	\$	\$	\$	\$	\$				~\$	~\$	\$				
Bus shelters and benches	\$		\$	\$			\$	\$	\$	\$				\$	\$	\$		\$	\$	\$	~\$				~\$	~\$	\$				
Charging stations for electric bicycles and scooters NEW	\$		\$	\$					\$	\$	\$				\$	\$						~\$			~\$	~\$					
Coordinator positions: State/local (CMAQ/STBG limited)				\$					\$	\$SRTS		\$				\$						~\$									
Community Capacity Building (develop organizational skills and processes)	~\$												\$			\$				NAE	~\$		TA				~\$	~\$			
Crosswalks for pedestrians, pedestrian refuge islands (new or retrofit)	\$		\$	~\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$				~\$	~\$	\$				
Curb ramps	\$	\$	\$	~\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$				~\$	~\$	\$				
Counting equipment	\$				\$	\$	\$		\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	~\$				~\$	\$					
Data collection and monitoring for pedestrians and/or bicyclists	\$		\$		\$	\$	\$		\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$				~\$	\$	~\$	~\$			
Emergency and evacuation routes for pedestrians and/or bicyclists	\$		\$				\$	\$	\$	\$	\$	\$			\$	\$		\$	\$	\$	~\$					\$	\$	~\$	~\$		
Encouragement and education activities related to safe access for bicyclists and pedestrians NEW	~\$			\$	\$				\$	\$SRTS	\$	\$	\$			\$					~\$	~\$									
Historic preservation (pedestrian, bicycle, transit facilities)	~\$		\$						\$	\$				\$	\$	\$				~\$	~\$	~\$			~\$	~\$	\$				
Landscaping, streetscaping (pedestrian/bicycle route; transit access); related amenities (benches, lighting, shade, trees, water fountains); usually part of larger project	\$		\$				~\$	\$	\$	\$					\$	\$		~\$	~\$	~\$	~\$				~\$	~\$	\$				
Lighting (pedestrian and bicyclist scale associated with pedestrian/bicyclist project)	\$		\$	~\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$				~\$	~\$	\$				
Maps (for pedestrians and/or bicyclists) (see Idea Book)	\$		\$	\$					\$	\$		\$	\$			\$					\$						\$				
Micromobility projects, including scooter share (capital and equipment, including charging stations and outlets; not operations)	\$		\$	\$					\$	\$					\$	\$				\$	\$	~\$	~\$		~\$	~\$					
Paved shoulders for pedestrian and/or bicyclist use	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$		\$	\$	\$	\$	~\$	\$	\$	\$				~\$	~\$					
Pedestrian plans	\$		\$					\$	\$	\$		\$	\$		\$	\$	\$	~\$	\$	~\$	\$						\$	\$	\$		
Public education and awareness programs to inform motorists and nonmotorized road users on nonmotorized road user safety NEW	~\$				\$				\$	\$SRTS		\$				\$														\$	\$





Let us know how we can help!



U.S. DEPARTMENT OF
ENERGY

Office of
Policy

Leveraging Federal Opportunities: US Department of Energy

Davie Nguyen | Deputy Director
State, Local, Tribal and Territorial Policy
US Department of Energy

September 6, 2024

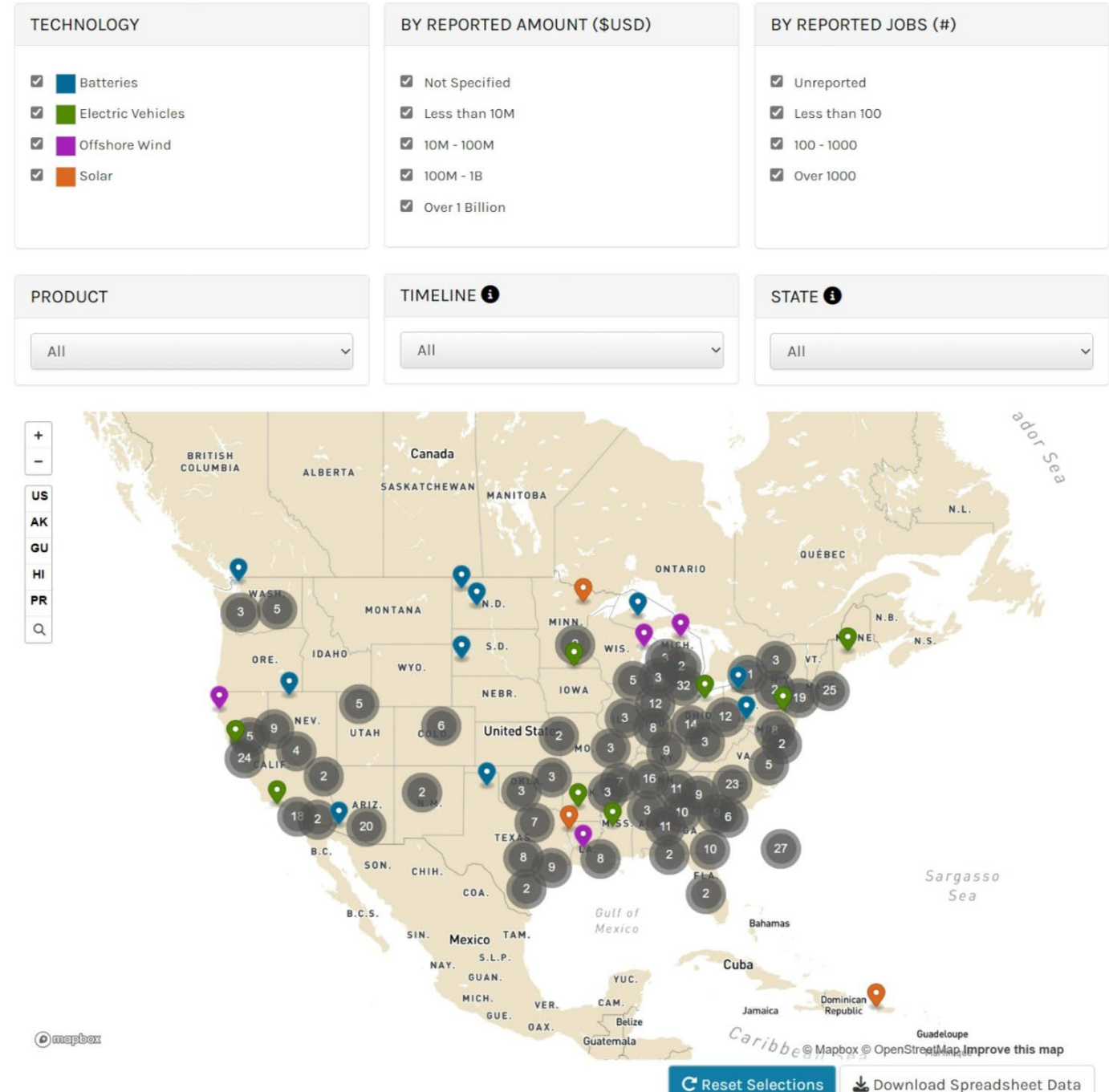


Investing in America's Energy Sector

- **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

Clean Energy Investments

- Batteries
 - **\$100+ billion** announced so far
 - **200** new facilities representing **75,000+** jobs
- Electric Vehicle Components
 - **\$35+ billion** announced so far
 - **140** new assembly sites representing **50,000+** jobs
- Solar
 - **\$13 billion** announced so far
 - Companies have announced enough manufacturing capacity to power **16 million** additional homes each year
 - Over **25,000** potential new jobs
- Explore the new interactive map at [Energy.gov/invest!](https://www.energy.gov/invest)



Overarching IRA/BIL Intended Impacts

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



DOE Opportunities Overview

Renewable Energy and Energy Efficiency

Renewable energy includes solar, wind, hydroelectric, biomass, geothermal, storage, and marine energy resources. Energy efficiency includes insulation, LED lighting, high-efficiency heating and cooling systems, efficient pumps, and more.

Renewable energy or energy efficiency investments may be especially relevant if your community:

- 1) Needs backup power and is curious about setting up a local microgrid with energy storage.
- 2) Wants to reduce carbon and other forms of pollution.
- 3) Wants to reduce energy costs and improve building health and safety for local residents and organizations.

Transmission and Distribution

Transmission and distribution technologies, including microgrids, are the electric infrastructure that delivers power from generation to end users.

Transmission and distribution investments may be especially relevant if your community:

- 1) Has frequent power outages and/or long wait times before power is restored
- 2) Faces high energy costs due to insufficient transmission or distribution line capacity.
- 3) Aims to invest in large generation projects to produce and sell power but does not have sufficient grid connections with major markets

DOE Opportunities Overview

- **Technical Assistance**: Technical assistance can cover a wide range of activities, including phone calls with experts; structured partnerships; and intensive, multi-year support from national lab researchers
- **Grants**: Grants are a type of financial assistance that gives federal money for a public or community purpose. Most funding is administered through competitive applications that begin with a funding opportunity announcement (FOA)
- **Prizes**: Prizes are competitively awarded funds based on team achievements against a defined "challenge," with no obligation to repay. Winners of a prize receive a check shortly after each competition round without entering into an agreement with DOE
- **Loans**: Federal loans can often involve larger amounts of funding than grants, cooperative agreements, or prizes, and thus can involve an extensive application and review process
- **Incentives**: Incentives can be in the form of tax credits and other payments for taking specific actions, such as implementing energy efficiency upgrades or deploying renewable energy projects

Technical Assistance

Program	Summary	Ideal For
<u>Clean Energy to Communities</u>	Connects communities with national lab experts to receive customized support. Expert Match is most suitable for communities that could benefit from assistance to inform time-sensitive decisions and identify and understand the range of options for achieving clean energy goals	Short-term expert support to identify options or inform decisions
<u>Energy Transitions Initiative Partnership Project</u>	Supports remote and island communities in advancing their own resilience through reliable, affordable, locally generated clean energy technologies. Communities work with national labs and regional partners to develop and review options over a 12- to 18-month period	Remote and/or island communities
<u>Renewable Energy Siting through Technical Engagement and Planning</u>	Program to help state and local governments build expertise with planning, siting, and permitting of large-scale renewable energy projects.	State and local governments seeking help with planning, siting, permitting of clean energy projects

Technical Assistance

Program	Summary	Ideal For
<u>Better Buildings Challenge</u>	Network, resource database, training hub, and challenge program working with partners that are committed to reducing building energy use and operational greenhouse gas emissions. Offers technical assistance and recognition to participants, which can include businesses, cities, states, universities, and others	Building owners or operators interested in energy efficiency
<u>Waste-to-Energy Technical Assistance for Local Governments</u>	Provides up to 40 hours of support to local governments and regional organizations exploring waste-to-energy (WTE) technologies	Local governments exploring waste-to-energy
<u>National Community Solar Partnership</u>	A national network of community solar stakeholders that helps to share information and expertise, provides technical assistance on unique local challenges, helps to connect partners, and provides a range of useful resources, publications, and tools	Anyone

Grants

Program	Summary	Ideal For
<u>Energy Improvements in Rural or Remote Areas</u>	Focused specifically on communities under 10,000 people. With \$1 billion of funding, this program strives to modernize electric generation facilities, address disproportionately high electricity costs, and support new economic opportunities in America's rural and remote communities	Communities < 10,000 people (can be city, town, unincorporated area)
<u>Renew America's Schools</u>	Grants for energy improvements at public school facilities, including EVs. Also, a program to train school staff as energy managers	Public schools
<u>Renew America's Non-Profits</u>	Grants to supply nonprofit buildings with energy-efficiency materials to lower costs and reduce emissions.	NGOs trying to reduce their energy cost

Grants

Program	Summary	Ideal For
<u>Energy Efficiency and Conservation Block Grant Program</u>	Funding for energy efficiency, renewable energy, waste, transportation, and more is allocated to states and tribes in set amounts based on population. The program includes a competitive application for small communities that do not qualify to receive a portion of their state's grant.	Communities exploring a wide range of clean energy efforts
<u>Grid Resilience and Innovation Partnerships Program</u>	Supports demonstrations of innovative approaches to transmission, storage, and distribution infrastructure to enhance resilience and reliability	Innovative grid projects
<u>Smart Grid Investment Matching Grant Program</u>	Aims to increase the flexibility, reliability, and efficiency of the energy system, with a focus on 1) increasing transmission capacity, 2) preventing faults, 3) integrating renewable energy, and 4) facilitating integration of electrified vehicles, buildings, and other devices. Funds the expansion or installation of microgrids that have the potential for wider market adoption	Microgrid projects

Loans

Program	Summary	Ideal For
<u>Tribal Energy Loan Guarantee Program</u>	Supports tribal investment in energy-related projects by providing loans and loan guarantees to federally recognized tribes. Authorized to provide up to \$20 billion in loans	Major projects led by Tribes
<u>Energy Infrastructure Reinvestment Financing</u>	Able to provide up to \$250 billion in loan guarantees to projects that retool, repurpose, or replace energy infrastructure that has ceased operations or that enables operating energy infrastructure to reduce emissions.	Major projects in communities with existing energy infrastructure
<u>Title 17 Clean Energy Loan Guarantees</u>	<p>Provides financing for large projects that deploy commercially viable innovative energy technology or employ innovation in energy supply chains</p> <p>Provides financing to projects supported by state energy financing institutions, such as state green banks.</p>	NGOs, developers, investors

Incentives

Program	Summary	Ideal For
<u>Investment and Production Tax Credits</u>	<p>The IRA establishes or extends tax credits for clean electricity, energy storage, carbon capture and sequestration, advanced manufacturing, clean fuels, electric vehicles, energy efficient construction, and clean hydrogen, among other activities.</p> <p>Tax credits may be specifically for, or provide a bonus to, projects implemented by or benefiting a type of organization or community, such as “energy communities.”</p> <p>Some tax credits are now available to tax-exempt entities (e.g., nonprofits, houses of worship, municipalities, or nonprofit utilities) via “elective pay,” which gives these tax-exempt entities the cash value of the credit.</p>	Clean energy projects, tax-exempt entities
<u>Advanced Energy Project Credit Allocation Program</u>	Projects that expand clean energy manufacturing and recycling and critical materials refining, processing and recycling, and for projects that reduce greenhouse gas emissions at industrial facilities.	Manufacturing and recycling, industrial decarbonization

Resources

- [Energy.gov/save](https://energy.gov/save)
- [Energy.gov/infrastructure](https://energy.gov/infrastructure)
- [Energy.gov/invest](https://energy.gov/invest)
- whitehouse.gov/cleanenergy/clean-energy-tax-provisions/



Natural Resources Conservation Service
U.S. DEPARTMENT OF AGRICULTURE



CPRG Workshop

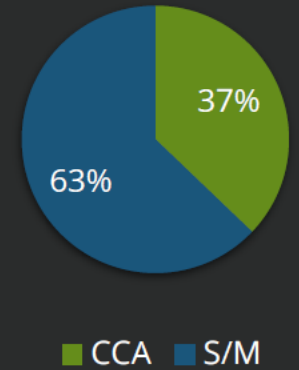
Louis Aspey, Associate Chief, NRCS

FARM PRODUCTION AND CONSERVATION
FSA | NRCS | RMA | Business Center

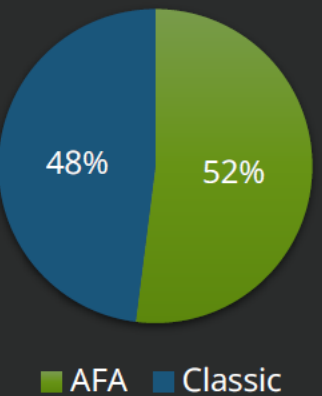
FY 2024 RCPP Proposals

- 323 Proposals requested \$5.3 billion
- 2x proposals compared to FY 2023
- Proposals in 49 out of 51 states/areas
- Top three states (lead states)
 - CA – 35
 - TX – 17
 - SD – 16

Funding Pool

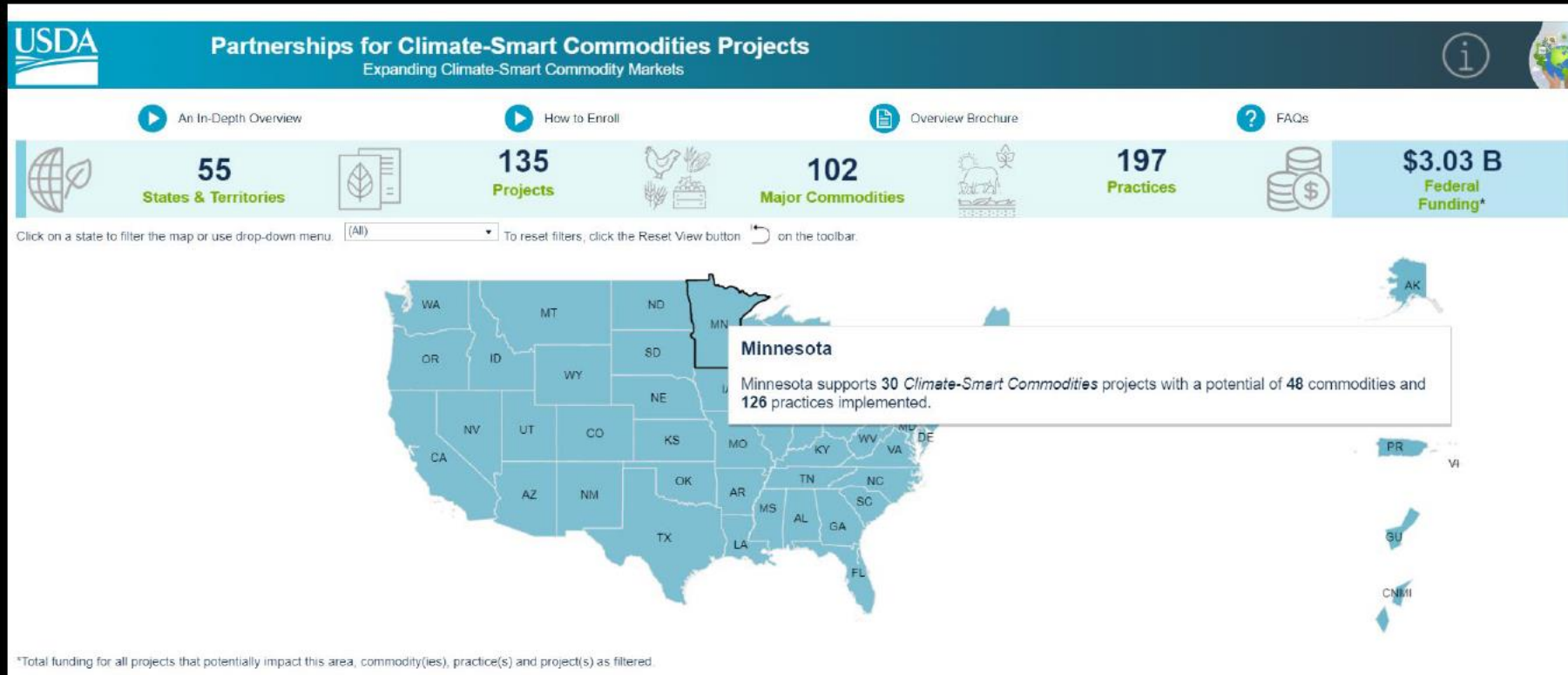


NFO





Partnerships for Climate-Smart Commodities



- <https://www.usda.gov/climate-solutions/climate-smart-commodities>

HUD Resources to Locate and Use Inflation Reduction Act Funding Opportunities

James Baltazar
Senior Analyst

U.S. Department of Housing and Urban Development
Office of Field Policy and Management
Minneapolis Field Office



Justice40

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





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Great Lakes Environmental Justice Thriving Communities Technical Assistance Center



Providing free technical assistance, training, and support to the communities and stakeholders who need it most.

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<https://greatlakestctac.umn.edu/>

NEW Funding Available

Inflation Reduction Act (IRA) ~\$369 BILLION

- Historic investment in energy efficiency and renewable energy through tax incentives, grant and rebate programs

Bipartisan Infrastructure Law (BIL) ~\$1.2 TRILLION

- Spent over five years, divided between improving the transportation network and society's core infrastructure

Clean Energy Investment: Key Programs

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



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



Opportunities for HUD Partners

Types



The diagram consists of three identical rectangular boxes arranged horizontally. Each box has a dark green header and a light green body. The text is centered within each box. The first box is labeled 'Tax Credits', the second 'Rebates', and the third 'Grants and Loans'.

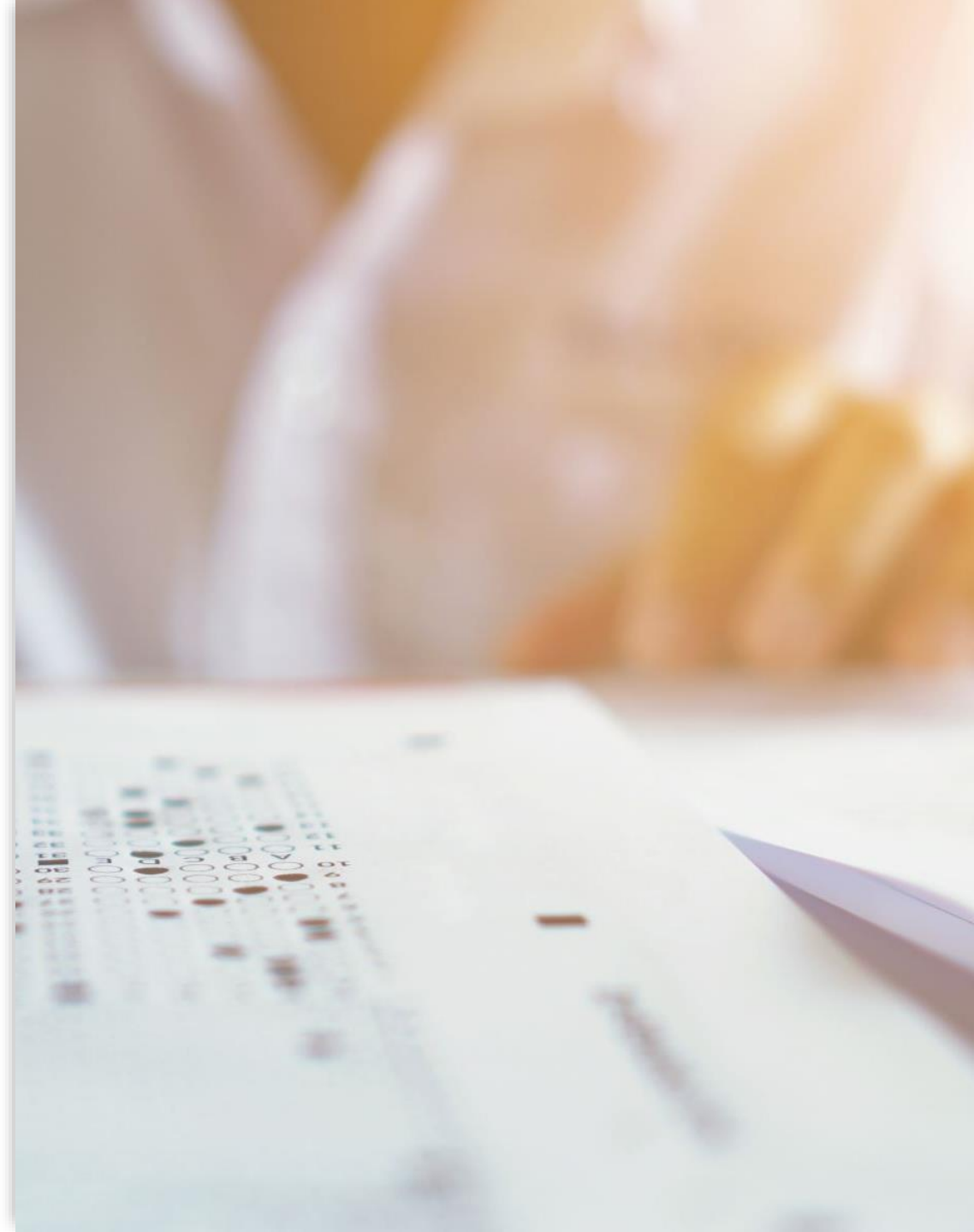
Tax
Credits

Rebates

Grants
and Loans

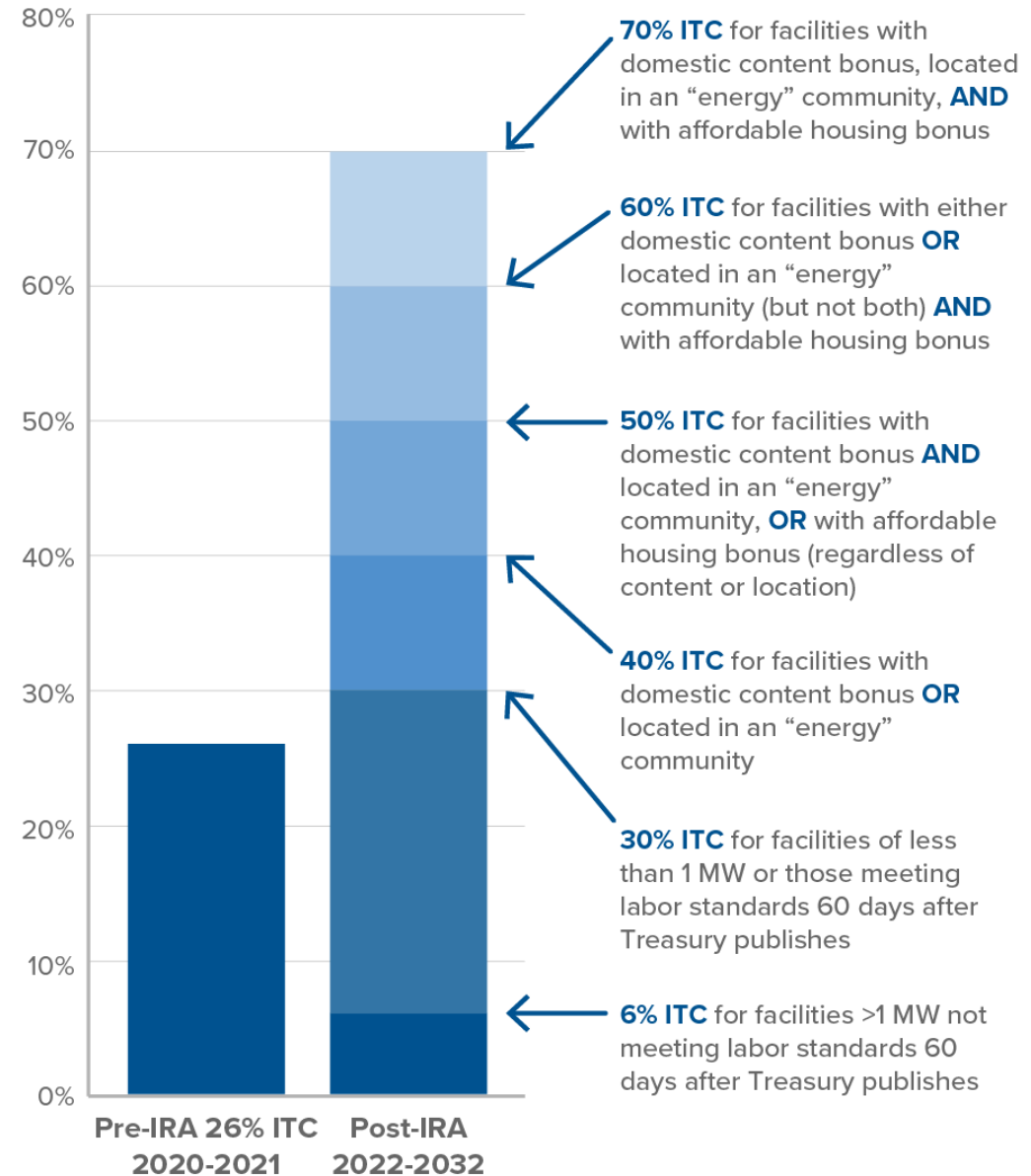
Tax Credits: Clean Energy

- **Direct (Elective) Pay (§ 6417) *NEW*:** Expands [12 clean energy-related tax credits](#) to tax-exempt entities including government entities, tribes, and housing authorities.
- **Transferability (§ 6418) *NEW*:** Allows entities that qualify for a tax credit to transfer all or a portion of the credit to a third-party buyer in exchange for cash.
- **Clean Energy Investment Tax Credit (§ 48E):** A base credit of 30% of project cost with adders that can repay up to 70% of project cost for renewable energy project. (e.g., solar, small-scale wind, geothermal, etc.) ([Summary of Inflation Reduction Act provisions related to renewable energy | US EPA](#))
- To register for Direct Pay: [Register for elective payment or transfer of credits | Internal Revenue Service \(irs.gov\)](#)
- **Low-Income Bonus Communities Tax Credit (§ 48e):** A 20% bonus to 48E for projects done on certain federally subsidized housing programs.
- To apply for the low-income bonus, see guidance: [Low-Income Communities Bonus Credit Program | Department of Energy](#)



Potential Project Savings from Investment Tax Credit

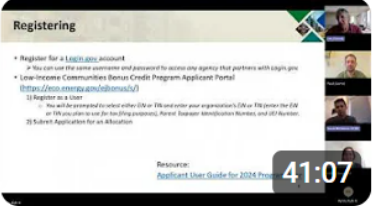
Inflation Reduction Act: Renewable Energy ITC Including Stackable Bonuses




Source: Novogradac

Tax Credits:

Applying for the Low-Income Bonus to the ITC

- 

1 General Application Tips, ITC Series: Low-Income Communities Bonus, Residential Buildings
HUDchannel • 87 views • 1 day ago
- 

2 Draft Benefits Sharing Statement, ITC Series: Low-Income Communities Bonus, Residential Buildings
HUDchannel • 67 views • 1 day ago

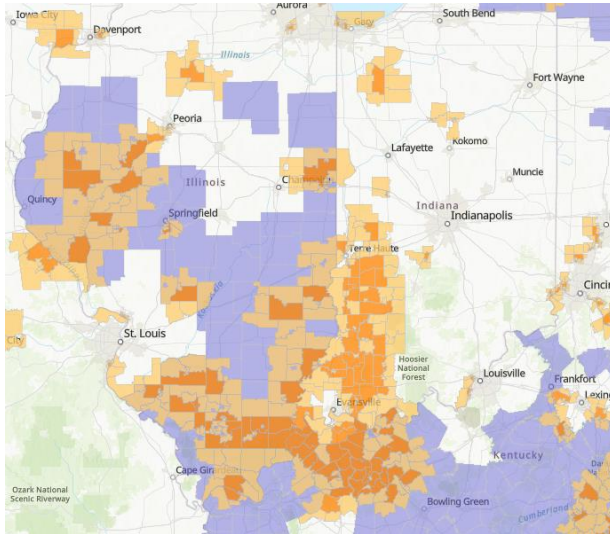
HUD's Office of Multifamily Housing Programs has launched a **new [series of recordings](#)** to help owners of HUD-assisted multifamily housing properties as well as other stakeholders apply for this credit under **Category 3 (Qualified Low-Income Residential Project)**.

HUD will be producing additional recordings to add to this 'playlist' to provide owners and other stakeholders with more introductory information on this program in the coming months.

[Multifamily Affordable Housing - Clean Energy Tax Credit Series - YouTube](#)

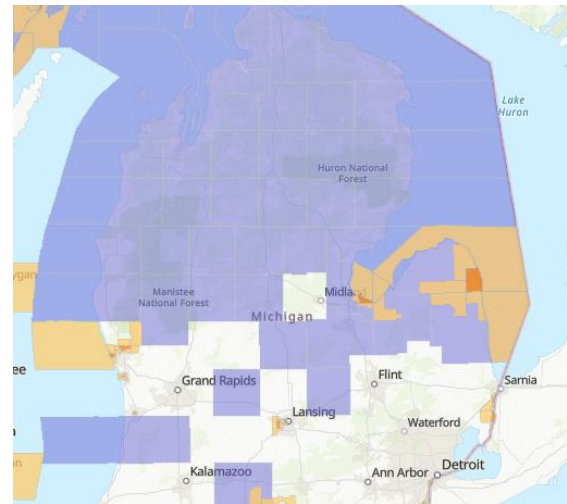
Tax Credits: Bonus Credits in Energy Communities

The Energy Community Tax Credit Bonus applies a bonus of up to 10% (for production tax credits) or 10 percentage points (for investment tax credits) for projects, facilities, and technologies located in energy communities. Increased credit amounts or rates are available to taxpayers that satisfy certain energy community requirements under [Section 45, 48, 45Y, or 48E of the Internal Revenue Code](#).

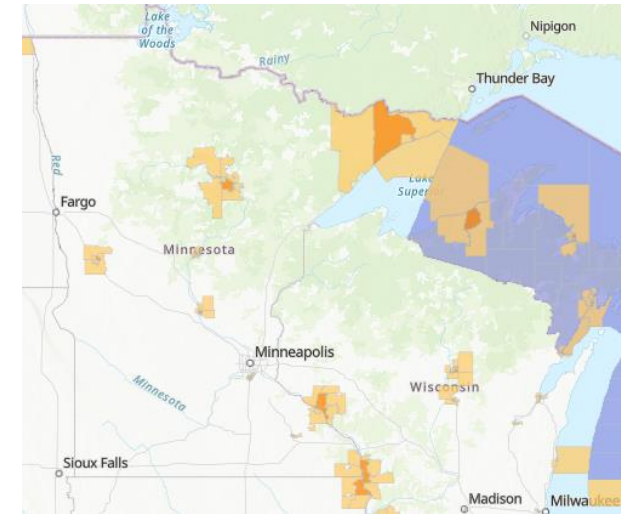


Illinois

Indiana

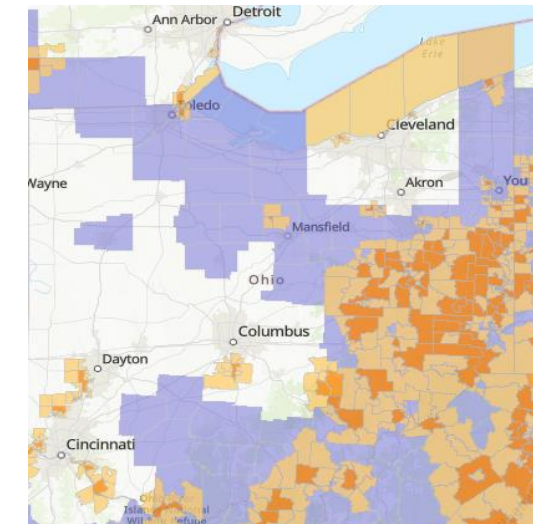


Michigan



Minnesota


Wisconsin



Ohio



MSA/Non-MSAs that are Energy Communities

Status

-  MSAs/non-MSAs that meet both the Fossil Fuel Employment (FEE) threshold and the unemployment rate requirement

Coal Closure Energy Communities

Tract Status

-  Census tract directly adjoining a census tract with a coal closure
-  Census tract with a coal closure

Tax Credits:

Direct Pay Technical Assistance

Elective pay is an important mechanism in the Inflation Reduction Act (IRA) that helps enable state, local, and Tribal governments; non-profit organizations; Puerto Rico and other U.S. territories; and other entities to take advantage of clean energy tax credits. Treasury's elective pay final rules provide certainty for applicable entities to understand the law's scope and requirements for eligibility. Some highlights of the final regulations include:

- Definition of "applicable entity"
- Pre-filing registration process
- Determining tax year for entities that do not have a Federal income tax or Form 990 filing obligation
- Special rule on tax-exempt grants and forgivable loans
- Applicable entities that co-own electricity-producing applicable credit property

We encourage you to check out the following elective pay resources:

- [Elective Pay Overview, Publication 5817](#)
 - [Rural Electric Cooperatives, Publication 5817-A](#)
 - [U.S. Territorial Governments, Publication 5817-B](#)
 - [Alaska Native Corporations, Publication 5817-C](#)
 - [Tax-Exempt Organizations, Publication 5817-D](#)
 - [State and Local Government, Publication 5817-E](#)
 - [Indian Tribal Governments, Publication 5817-F](#)
- [Clean Energy Tax Incentives: Elective Pay Eligible Tax Credits, Publication 5817-G](#)
- [IRS Elective Pay Frequently Asked Questions](#)
- [Treasury.gov/IRS-ResourcesHub](https://www.treasury.gov/IRS-ResourcesHub)
- [IRS.gov/ElectivePay](https://www.irs.gov/ElectivePay)
- [CleanEnergy.gov/DirectPay](https://www.CleanEnergy.gov/DirectPay)

In addition to these final rules, Treasury and the IRS issued on March 5, 2024, [released a proposed rule](#) that is intended to provide further clarity and flexibility for applicable entities that co-own clean energy projects and would like to utilize elective pay.

Rebates: Funding Opportunities

Type of Home Energy Project	Households Below 80% Area Median Income (AMI) ¹	Households Between 80% and 150% AMI	Households Above 150% AMI
Home Efficiency Project with at least 20% predicted energy savings ²	80% of project costs up to \$4,000	50% of project costs up to \$2,000 (maximum of \$200k for a multifamily building)	
Home Efficiency Project with at least 35% predicted energy savings ²	80% of project costs up to \$8,000	50% of project costs up to \$4,000 (maximum of \$400k for a multifamily building)	
Home Electrification Project Qualified Technologies (only households with an income below 150% AMI are eligible)	100% of project costs up to \$14,000	50% of project costs up to \$14,000 (households with incomes above 150% AMI are not eligible)	To Access, contact your state energy office: State Energy Offices NASEO
	ENERGY STAR electric heat pump water heater	up to \$1,750	
	ENERGY STAR electric heat pump for space heating & cooling	up to \$8,000	
	ENERGY STAR electric heat pump clothes dryer	up to \$840	
	ENERGY STAR electric stove, cooktop, range, or oven	up to \$840	
	Electric load service center	up to \$4,000	
	Electric wiring	up to \$2,500	
	Insulation, air sealing, and ventilation	up to \$1,600	

Sample Braiding

(Energy Efficiency/
Electrification)

❑ EPA's Greenhouse Gas Reduction Fund funds two green financing programs (*National Clean Investment Fund* and *Clean Communities Accelerator*)

❑ Rebates from State Energy Offices. [State Energy Offices | NASEO](#)

ENERGY EFFICIENCY AND ELECTRIFICATION 40 units (\$480,000) (Efficiency=\$80,000; Electrification = \$400,000)

Funding Source	Dollar Amount	Comments
HOME Efficiency Rebates (DOE program at State Energy office) https://www.energy.gov/save/rebates	\$64,000	Lesser of 80% of project cost or \$8,000 per unit. Lesser is (.80 x \$80,000)
Electrification Rebates (DOE program at State Energy office) https://www.energy.gov/save/rebates Tribal Rebates specific webpage	\$400,000	Lesser of 100% of project cost or \$14,000 per unit. Lesser is \$10,000 x 40 units
Financing from Clean Communities Investment Accelerator Fund (EPA)	\$-480,000	Repaid \$464,000 with rebates
Total project cost	\$480,000	
Total Debt	\$16,000 (3% of project cost)	

Grants and Loans: EPA

Greenhouse Gas Reduction Fund

<https://www.epa.gov/ggrf>

National Clean Investment Fund

\$14 Billion

Fund 2-3 national nonprofits to partner with private capital providers to deliver financing at scale to businesses, communities, community lenders, and others - catalyzing tens of thousands of clean technology projects. See [National Clean Investment Fund | US EPA](#)

Clean Communities Investment Accelerator

\$6 Billion

Fund 2-7 hubs to rapidly build clean financing capacity of specific networks of public, quasi-public and non-profit community lenders—such as CDFIs, credit unions, green banks, HFAs, minority depository institutions, and others—to provide access to financing clean technology projects in low-income and disadvantaged communities. See [Clean Communities Investment Accelerator | US EPA](#)

Solar For All

\$7 Billion

60 grants to States, Tribal governments, municipalities, and nonprofits for investments in residential and community solar in low-income and disadvantaged communities. (awardees will be announced April, 2024) See: [Solar for All | US EPA](#)

Sample Braiding (Solar Project)

- ❑ By using several different funding sources together, project costs can decrease
- ❑ Use existing HUD programs and layer with IRA-BIL programs

SOLAR PROJECT (\$400,000; 160 kW installed) to benefit 40 units		
Funding Source	Dollar Amount	Comments
Project cost	\$400,000	BASIS
Solar For All Grant	\$30,000	Restricted grants (\$40K) + ITC (\$240K) less than basis (\$400K)
State Solar Incentive	\$10,000	
HUD Grant (CDBG, Capital Fund, Choice, Green and Resilient Retrofit)	\$40,000	Unrestricted (assumed)
Financing (<i>potentially</i>) from Clean Communities Accelerator Program	-\$320,000	Bridge capital
Direct Pay - Investment Tax Credit (ITC) 30% Base credit + up to 70% project cost with adders	\$120,000 (30% of \$400K)	Repays private financing (\$320K); based on \$400K Project Basis
Low-income Bonus Tax Credit (20% bonus to ITC) (application required)	\$80,000 (20% of \$400K)	
Domestic Content or Energy Community Bonus (10% bonus to ITC)	\$40,000 (10% of \$400K)	
Total Debt (after Direct Pay)	-\$80,000	20% of Project Cost

Build for the Future
Funding Navigator

HUD Exchange *Build for the Future:* Funding Navigator

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



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

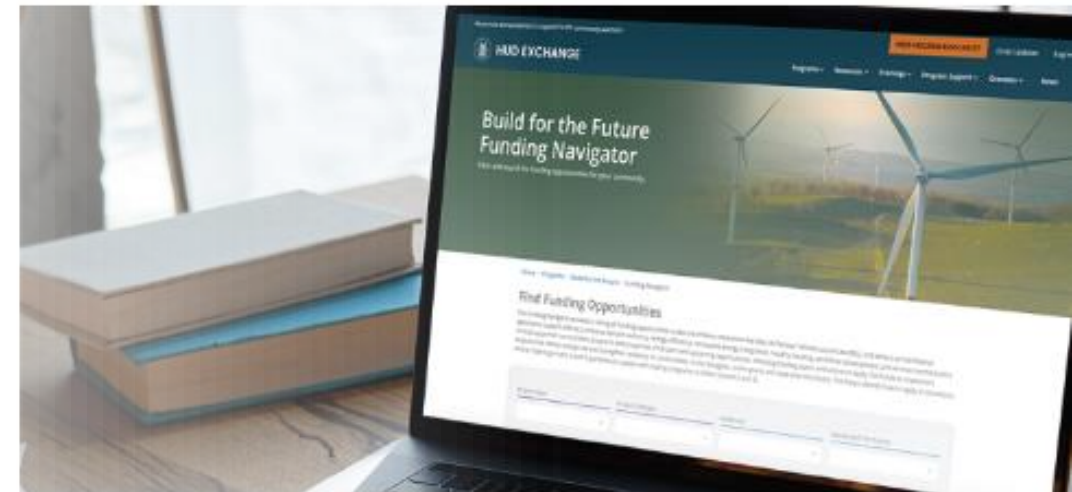


Invest in Sustainable Solutions Infographic

Explore the updated Build for the Future Interactive Infographic that provides a variety of energy and climate resilience

Investments can reduce the carbon footprint of properties, improve resident health, trim operational costs and recoup savings, and decrease out-of-pocket expenses.

[View the Interactive Infographic](#)



Find Funding Opportunities

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

[Explore the Funding Navigator](#)

Funding Navigator Demonstration

Find Funding Opportunities

The Funding Navigator provides a listing of funding opportunities under the Inflation Reduction Act (IRA), Bi-Partisan 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	Energy Tax: Direct (Elective) Pay Tax Credit (\$ 6417) 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: agency website

HUD Exchange *Build for the Future:* Guides

Published:

- Energy Efficiency
- Solar
- Building Standards
- Benchmarking
- Resilience
- Workforce Development
- Direct Pay for State and Local Governments
- Green Finance

Coming Soon:

- Greenhouse Gas Reduction Fund
- Building Electrification
- Waste Management

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 BIL grants



HUD Exchange

Build for the Future: Fact Sheets

Build for the Future Energy Efficiency



Improving energy efficiency is a critical pathway to reducing energy consumption, decreasing greenhouse gas (GHG) emissions, and improving climate resiliency. Energy-efficiency upgrades can also lower a property's operating expenses, create healthier and more comfortable homes, and improve a property's long-term financial viability.

The Inflation Reduction Act, Bipartisan Infrastructure Law, and other recent legislation provide billions of dollars for homeowners, property owners and managers, and communities to invest in energy-efficiency upgrades. Many funding opportunities are already available, and communities assisted by the U.S. Department of Housing and Urban Development (HUD) have priority for most of these programs.



Green and Resilient Retrofit Program (HUD)



Loans and grants to support HUD-assisted multifamily housing to improve energy efficiency, reduce carbon emissions, incorporate renewables, and increase climate resilience. Funding is available through spring 2024.

- **Elements:** Funding of up to \$40,000 per unit or \$750,000 per property to install upgrades like electric heat pumps, electric appliances, insulation, air sealing, and electric wiring
- **Leading Edge:** Up to \$80,000 per unit or \$10 million per property to achieve advanced green building certification like LEED Gold or Plus ZERO
- **Comprehensive:** Up to \$80,000 per unit or \$20 million per property for high-needs properties to complete deep energy-efficiency retrofits

Home Efficiency Rebates (DOE)



State energy offices will offer rebates of \$2,000–\$4,000 or 50%–80% of project costs for single-family homes that undergo energy upgrades predicted to save at least 20% energy use. Multifamily projects are eligible for \$2,000–\$8,000 per unit or \$200,000–\$400,000 per building. Eligible upgrades include heating and cooling systems, insulation, and water heating systems.

Home Electrification and Appliance Rebates (DOE)



State energy offices will offer rebates up to \$14,000 (total across all appliances) or 100% of project costs per unit, whichever is less (based on household income), for:

- Electric heat pump water heaters
- Electric heat pumps for space heating and cooling
- Electric stoves
- Electric heat pump clothes dryers
- Electric load service centers
- Insulation
- Air sealing
- Ventilation
- Electric wiring

= Single-family homes = Multifamily homes

4%—Energy Efficient Home Tax Credit (Treasury)



Builders can get a \$2,500–\$5,000 tax credit per newly constructed or renovated single-family home meeting ENERGY STAR® Home Program or DOE Zero Energy Ready Home (ZERH) standards. Plus, tax credits of \$1,000–\$5,000 per newly constructed multifamily homes meeting those standards and wage and apprenticeship requirements. Tax credits are available now.

25C—Energy Efficient Home Improvement Tax Credit (Treasury)



Taxpayers, including renters, can get a credit up to 30% of the cost for insulation, air sealing, heat pumps, and heating and cooling equipment. The maximum combined credit per tax year is \$3,200. This includes up to \$2,000 for heat pumps and heat pump water heaters, and up to \$1,200 for windows and doors, home energy audits, electric wiring upgrades, upgraded appliances, and more. Tax credits are available now.

Weatherization Assistance Program (DOE)



Formula grants to all 50 states, Washington, D.C., Native American Tribes, and U.S. Territories to reduce energy costs for low-income households by improving the health, safety, and energy efficiency of homes. To find out if you are eligible to apply for WAP assistance, reach out to your state weatherization administrator.

Energy Efficiency and Conservation Block Grants (DOE)

Funding for states, local governments, and Tribes to improve efficiency and reduce emissions. Eligible projects include energy audits and building upgrades, building efficiency and electrification campaigns, and adopting green building performance standards.

179D—Energy Efficient Commercial Buildings Tax Deduction (Treasury)



Buildings 4+ stories (new construction and rehabilitation) are eligible for a tax deduction of \$1.00/sq. ft. to over \$5.00/sq. ft., if energy targets and wage apprenticeship standards are met. Eligible upgrades include interior lighting, building envelope sealing, or heating, cooling, ventilation, and hot water systems. Tax deductions are available now.

Check the [Build for the Future Funding Navigator](#) for more funding opportunities and the [Build for the Future](#) webpage for resources to improve the physical and financial performance of your home or multifamily property.



Resources: Toolkits & Technical Assistance Programs

PEER LEARNING AND PUBLIC RECOGNITION

Better Climate Challenge, DOE (emissions reduction based)

[Better Climate Challenge](#) | [Better Buildings Initiative \(energy.gov\)](#)

Better Building Challenge, DOE (energy efficiency based)

[Better Buildings Challenge](#) | [Better Buildings Initiative \(energy.gov\)](#)

Better Buildings Webinars, DOE

[Events & Webinars](#) | [Better Buildings Initiative \(energy.gov\)](#)

BENCHMARKING AND BUILDING PERFORMANCE

[Energy Management Resources](#) | [HUD.gov / U.S. Department of Housing and Urban Development \(HUD\)](#)

[Training](#) | [ENERGY STAR](#)

[Benchmarking and Building Performance Standards Policy Toolkit](#) | [US EPA](#)

[Greenhouse Gas Equivalencies Calculator](#) | [US EPA](#)

RESILIENCE

https://www.epa.gov/sites/default/files/2019-07/documents/regional_resilience_toolkit.pdf

[Building Resilience in Coastal Communities](#) | [U.S. Climate Resilience Toolkit](#)

[HUD Community Resilience Toolkit \(hudexchange.info\)](#)

Leveraging BIL-IRA Funding for CPRG Planning Grantees

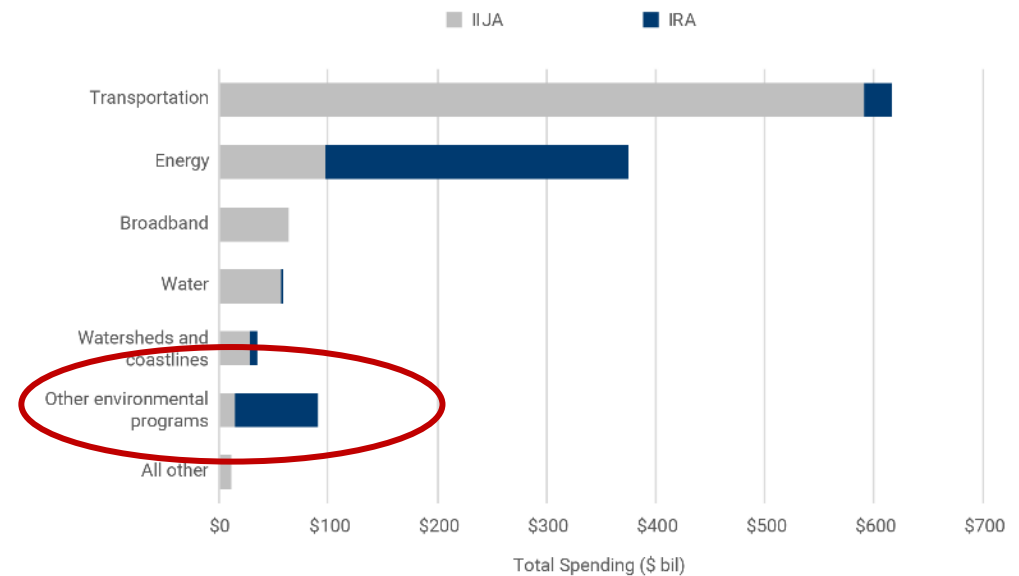
For information only –
this is not tax guidance

Leveraging BIL-IRA to support energy, sustainability and building resilience

- **BIL-IRA has invested more than \$500B** across the United States and builds on previous historic funding levels such as American Rescue Plan and CARES Act
- This **creates new federal opportunities** to fund and finance economic, energy, and environmental transformation
- In context, the International Energy Agency estimates **\$4.5 trillion in clean energy investment needed annually**
- Need for **public-private funding sources and partnerships** as part of the energy and economic transformation process

FIGURE 1

Projected federal spending from IIJA and IRA



Note: Projected spending includes advance appropriations, budget impacts of IRA tax credits as estimated by the CBO, and a small number of authorized programs.

Source: Brookings analysis of Infrastructure Investment and Jobs Act, Inflation Reduction Act, and CBO data.

Select EPA funding from BIL-IRA

Bipartisan Infrastructure Law
(\$45.1B)

Inflation
Reduction Act
(\$34.8B)

Water and
sewer
infrastructure
(\$38.4B)*

Superfund
(\$3.5B)

Brownfields
(\$1.5B)

Regional
environmental
programs
(\$1.7B)

Environmental
and climate
justice
(\$100M)

Greenhouse
Gas Reduction
Fund (\$27B)

Climate
Pollution
Reduction
Grants (\$5B)

EJ capacity
building and
Community
Change Grants
(\$2.8B)

*Includes only Clean Water State Revolving Fund and Drinking Water State Revolving Fund

epa.gov/invest



Water funding and technical assistance

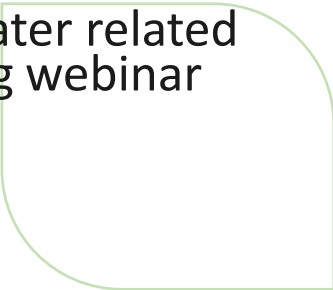
Water Infrastructure Finance and Innovation Act (WIFIA)

- All borrowers benefit from **low-cost capital** with fixed treasury rate regardless of credit rating or loan structure
- Customized repayment schedule with **long-term, patient lending** with terms up to 35 years
- WIFIA borrowers can **bundle multiple projects**
- **Efficient application process** with closing in as little as 4 months with technical assistance opportunities

Environmental Finance Center Network

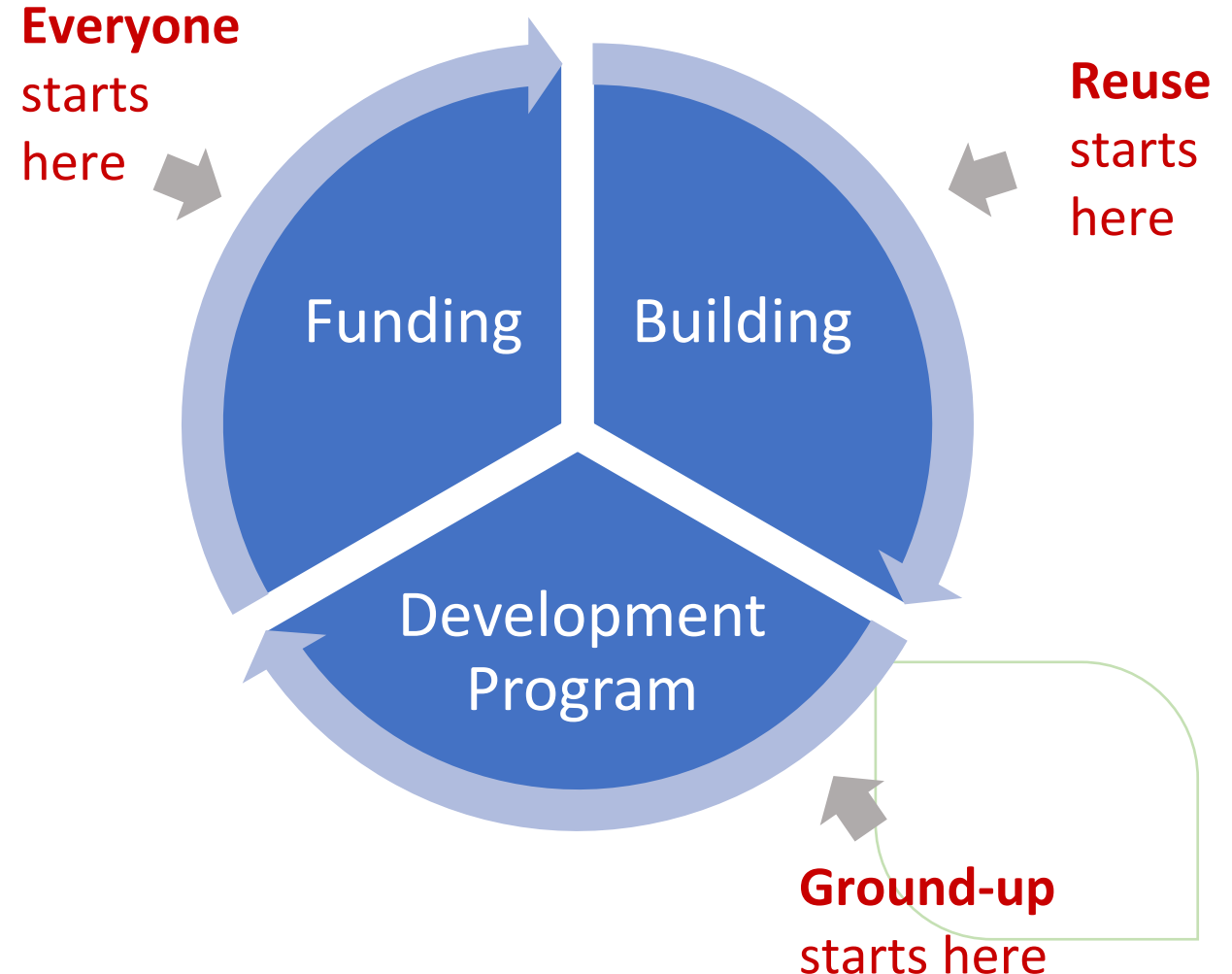
- **29 Environmental Finance Centers** across the U.S. delivering targeted technical assistance to support sustainable infrastructure solutions, local project support, and other resources
- National providers include **Rural Community Assistance Program, Sand County (EPIC), U.S. Water Alliance, and Moonshot Missions**

Water Technical Assistance (WaterTA)

- Approximately \$50 billion in BIL funding
 - Free technical assistance to apply for programs
 - Identifying lead pipes for removal
 - Enhancing resilience against cybersecurity threats
 - Identifying climate adaptation strategies
 - Providing resources for workforce development
 - Addressing stormwater challenges
 - Complying with the Safe Drinking Water and Clean Water Acts
 - Visit epa.gov/fedfunds for more water related funding opportunities with ongoing webinar series
- 

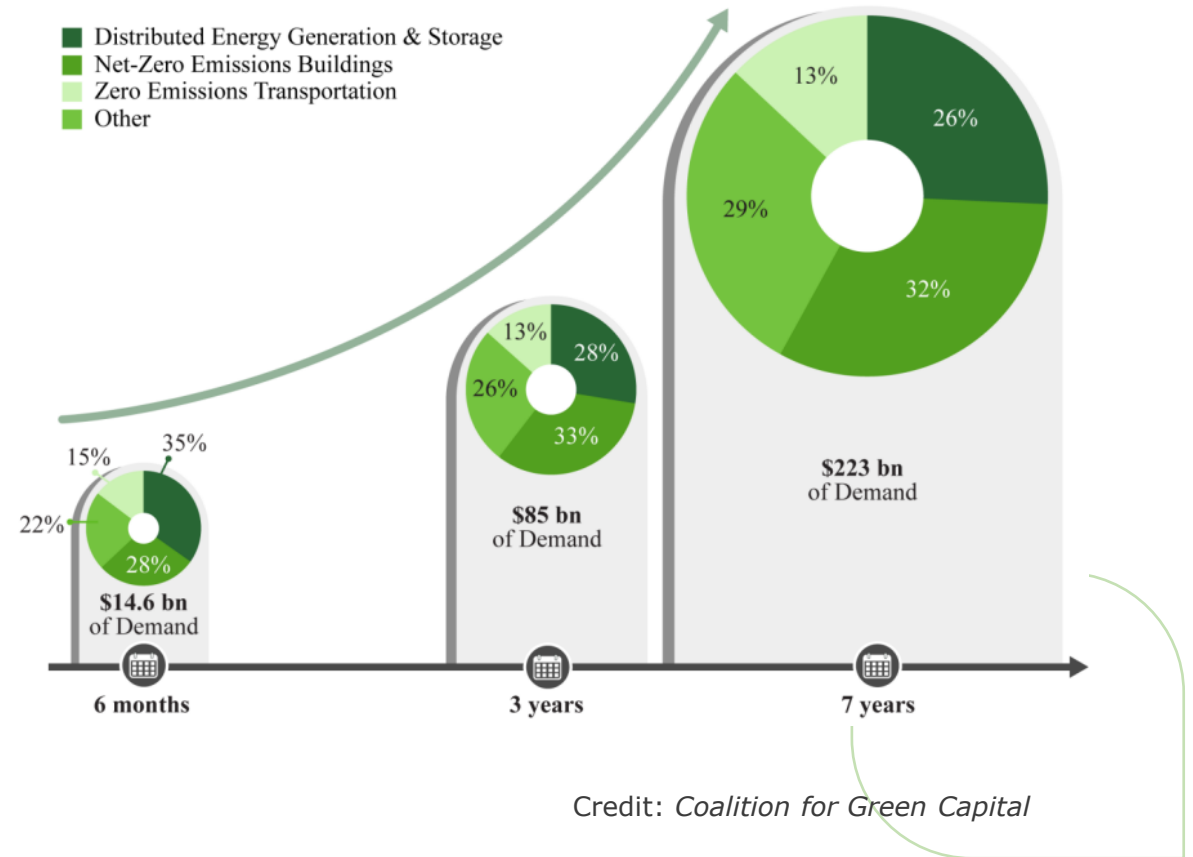
Brownfields funding and technical assistance

- **Assessment Grants**
 - **Community-wide Assessment Grants** for up to \$500,000
 - **Assessment Coalition Grants** for up to \$1,200,000
 - **Community-wide Assessment Grants for States and Tribes** for up to \$2,000,000
- **Revolving Loan Fund (RLF) Grants** to capitalize recipient to carry out cleanup activities at brownfield sites
- **Cleanup Grants** up to \$500,000, \$2,000,000, or \$4,000,000 to address one or more brownfield sites
- FY 2025 Assessment, Revolving Loan Fund, and Cleanup Grants opened in September and **close November 14th**
- Free localized **technical assistance** to support brownfield cleanup



About EPA's Greenhouse Gas Reduction Fund

- \$27 billion authorized by the Inflation Reduction Act to run three different but complimentary programs
 - **\$14B National Clean Investment Fund** scales capital to finance projects now
 - **\$6B Clean Community Investment Accelerator** expands community lender capacity for climate investments
 - **\$7B Solar For All** helps deploy community residential solar and needed grid upgrades for low income and disadvantaged neighborhoods
- Read applications at epa.gov/ggrf to understand framework and network





Capitalizing network of nonprofit financial institutions


Greenhouse Gas Reduction Fund

- Establishes **network of nonprofit financial institutions** supporting tech neutral, commercially viable solutions
- **Reduce Emissions** by about 40 million mt CO₂e annually
- Dedicate over **70% of funds to low-income and disadvantaged communities**
- Achieve a 7x private capital mobilization record **leveraging \$20B for \$140B+ in investment**

National Clean Investment Fund

- **Climate United Fund** (\$6.97B) led by Calvert Impact: consumers, small businesses, small farms, community facilities, and schools
- **Coalition for Green Capital** (\$5B) focus on green banks
- **Power Forward Communities** (\$2B) focus on single-family and multi-family housing owners and developers

Clean Communities Investment Accelerator

- **Opportunity Finance Network** (\$400M) CDFI intermediary for network of 400+ community lenders
 - **Inclusiv** (\$1.87B) CDFI intermediary for network of 900+ credit unions including CDFIs and financial cooperatives
 - **Justice Climate Fund** (\$940M), new nonprofit that has more than 1,200 community lenders focused around clean energy-focused capital and capacity building
 - **Appalachian Community Capital** (\$500M) launching a Green Bank for Rural America serving coal, energy, underserved rural, and tribal communities
 - **Native CDFI Network** (\$400M) network for 60+ Native CDFIs that address capital access challenges
- 



Solar
for All




Apply for Community Change Grant by November 21st!

Track I: Community-Driven Investment for Change Objectives (\$1.96B)

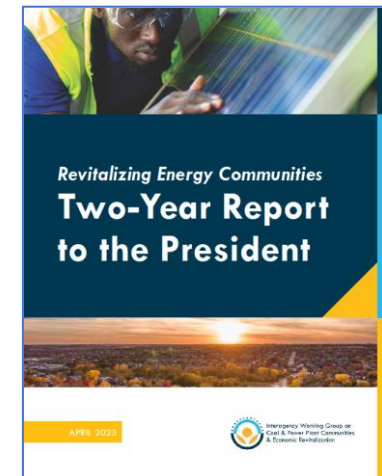
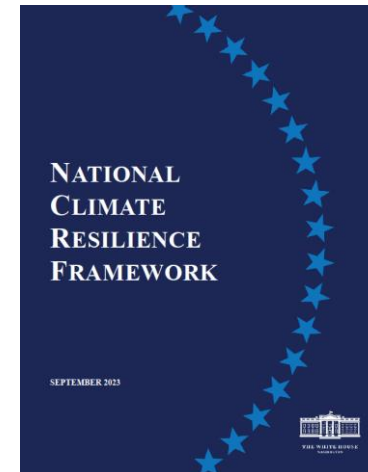
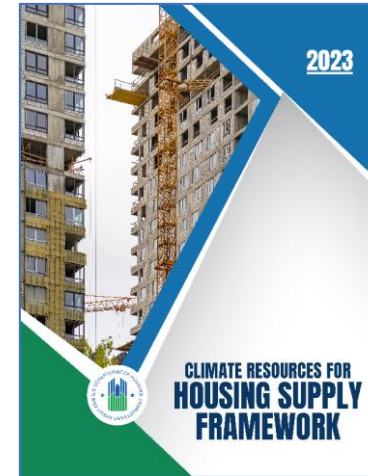
- Increase community resilience through climate action activities
- Reduce local pollution to improve public health
- Center meaningful community engagement
- Build community strength
- Reach priority populations
- Maximize integration across projects

Track II: Meaningful Engagement for Equitable Governance (\$40M)

- To build the capacity of communities to evaluate and redress environmental and climate injustices
 - To give disadvantaged communities a meaningful voice in government decision-making processes
- 

Thank you and reach out for more discussion

- **Grow knowledge** and further share resources of EPA' BIL-IRA funding and how to braid federal resources to support climate action while building resilience and mitigating disaster
- **Better leverage** existing federal, state, local, and private sources of **capital and partnerships** to support project development and implementation
 - Role for project developers
 - Role for investors
 - Role for partner convenors
- Learn more at epa.gov/invest





Presented by

Clare Sierawski

Senior Energy Counselor
Rural Development

Rural Development - Inflation Reduction Act

Three Clean Energy Programs:

Rural Energy for America Program
(REAP)

Powering Affordable Clean Energy
(USDA PACE)

Empowering Rural America
(New ERA)

- Largest investment in rural electrification since 1936.
- **BRAND NEW** grant, loan, loan modification, and partial loan forgiveness programs to expand clean, affordable, and reliable energy.
- Reduced pollution, improved health, and lower energy costs for rural America.
- Once in a generation opportunity for economic development and to enhance the quality of life in rural communities.

New ERA: Transforming Rural America: President Biden Announced \$7.3 Billion

- 16 rural electric cooperatives selected to receive up to \$7.3 billion in clean energy financing
- Deliver clean, more affordable and more resilient electricity to ~5 million rural co-op members representing 20 percent of rural households, farms, businesses and schools
- Leverage \$7.3 billion from the Inflation Reduction Act into a total investment of more than \$29 billion in rural communities across the nation
- Co-ops will build or purchase over 10 gigawatts of clean energy and make enabling investments in areas including transmission, substation upgrades, and distributed energy resource management software that will lower energy costs for rural Americans and enhance grid performance, resiliency, and reliability.

New ERA Co-ops and States

The first round of selectees and the states they serve include:

- Allegheny Electric Cooperative Inc., Pennsylvania and New Jersey
- Arizona Electric Power Cooperative, Inc., Arizona, California, Nevada, and New Mexico
- Basin Electric Power Cooperative, Montana, North Dakota, and South Dakota
- Buckeye Power, Inc., Ohio
- CORE Electric Cooperative, Colorado
- Dairyland Power Cooperative, Wisconsin, Iowa, Illinois, and Minnesota
- East Kentucky Power Cooperative, Kentucky
- Golden Valley Electric Association, Alaska
- Great River Energy, Minnesota, North Dakota, and Wisconsin
- Hoosier Energy, Indiana and Michigan
- Minnkota Power Cooperative, North Dakota and Minnesota
- San Miguel Electric Cooperative Inc., Texas
- Seminole Electric Cooperative, Inc., Florida
- Tri-State Generation and Transmission Association, Inc., Colorado, New Mexico, Nebraska, and Wyoming
- United Power, Colorado
- Wolverine Power Supply Cooperative, Michigan

Powering Affordable Clean Energy:

\$1 billion in funding for low-interest, partially forgivable loans to fund clean energy (solar, wind, geothermal, biomass, hydropower) and energy storage for rural America.

Project State	Borrower Name	Loan Amount	Project Summary
AK	Alaska Electric and Energy Cooperative, Inc.	\$100,000,000	Alaska: Alaska Electric and Energy Cooperative Inc. received a \$100 million partially forgivable loan to install a 45-megawatt four-hour battery energy storage system adjacent to its Soldotna Substation.
AZ	Sierra Southwest Electric Cooperative	\$55,237,263	Arizona: Sierra Southwest Cooperative Services Inc. is expected to receive approximately a \$55.2 million partially forgivable loan to finance three battery energy storage system projects totaling 35 megawatts and lasting for four hours in duration.
CO	Delta-Montrose Electric Association	\$72,162,000	Colorado: Delta-Montrose Electric Association is expected to receive a \$72 million partially forgivable loan to finance a grid-connected solar photovoltaic system. This project will provide rural communities in western Colorado with clean power.
HI	Kauai Island Utility Cooperative	\$23,400,000	Hawaii: Kauai Island Utility Cooperative received a \$24.4 million partially forgivable loan to expand solar energy production and to reduce its reliance on fossil fuels during peak evening hours in Anahola, Koloa and Port Allen. This project will create jobs for people in the community, strengthen the local electric grid, and further the cooperative's goal of providing 100% renewable energy by 2033.
HI	Kauai Island Utility Cooperative	\$975,000	
KY	Lock 9 Hydro Partners	\$19,297,000	Kentucky: Lock 9 Hydro Partners LLC is expected to receive ~\$19.3 million a partially forgivable loan to build a run-of-river hydroelectric plant on the Kentucky River generating 3 megawatts of renewable energy; expected to power 1,600 homes each year.
NE	Bluestem Energy Solutions LLC (MMPS1)	\$3,612,000	Nebraska: Bluestem Energy Solutions LLC is expected to receive a ~\$3.6 million partially forgivable loan to build a 2-megawatt community solar facility.

Rural Energy for America (REAP) Program

- ❖ Provides grant and loan financing to agricultural producers and rural small businesses for renewable energy systems – like solar panels - or to make energy efficiency improvements.
- ❖ Federal share raised to 50% for all energy efficiency projects, all zero-emission renewable energy projects, and all projects in designated energy communities and projects submitted by eligible tribal entities.
- ❖ Maximum grant size increased from \$250,000 to \$500,000 for energy efficiency projects and from \$500,000 to \$1 million for renewable energy systems.
- ❖ These changes have led to over a 1,000 fold increase in funding requests for REAP.
- ❖ During the Biden Administration, REAP has invested \$2.2 billion across over 7,600 projects across the country.

Applicant Eligibility

Agricultural Producer



Individual or entity that receives 50 percent or more of their gross income from agricultural products – crops, livestock, aquaculture, forestry operations, nurseries, dairies

Rural Small Business



- **For-profit small business** - as defined by the Small Business Administration (SBA)
- **Rural area or non-metro community of \leq 50,000**
- **Website:** www.rd.usda.gov/reap (use rural area link)

Renewable Energy Eligible Projects



Solar



Wind



Small Hydroelectric



Anaerobic Digesters



Biomass



Geothermal



Wave/Ocean Power

Rural Electrification Act Lending

Rural Electrification Lending remains very active with still attractive Treasury and Near Treasury interest rates available.

Can be stacked with direct pay tax credits.

We welcome the opportunity stack our financing with other agencies (provided it is ok with the other agency).

Rural Energy Savings Program (RESP)

Program offers 0% interest to utilities to relend to your customers at no more than 5% for energy efficiency measures including:

- Light
- HVAC
- Building envelope
- Improvements On-grid/off-
- Grid renewable energy
- Charging stations
- Even whole manufacture home replacements

Essential elements: relending, on-bill financing repayment from consumer to utility, energy efficiency investment.

Grid Security Division

- Our Newest Division, the Grid Security Division is up and running
- We can finance your needs for grid security, cyber security, physical security and fire prevention.
- Even if previously thought to be an “operating expense,” if it advances grid security; we’ll consider it for financing; including
 - Emergency vehicles
 - Cyber software
 - Fire prevention
 - Vegetation management
 - Drones
 - Security systems

Thank you!

Clare Sierawski



U.S. Treasury Elective (Direct) Pay

- An expanded version of the presentation from the U.S. Treasury on Elective/Direct Pay can be found in the [webinar recording here](#).
- More Information on Direct Pay
 - ✓ [IRS.gov/ElectivePay](#)
 - ✓ [Pre-filing Registration User Guide](#); [How-to-Video](#)
 - ✓ [Permission Management User Guide](#)
 - ✓ [FAQs](#)
 - ✓ [CleanEnergy.gov/DirectPay](#)
 - ✓ [Treasury.gov/IRA](#)
 - ✓ Subscribe to IRS e-News Subscriptions by visiting [IRS.gov/newsroom/e-news-subscriptions](#) → Tax exempt & government entities