

A satellite night view of the United States, showing the outlines of the continents and the glowing patterns of city lights and infrastructure across the landmass. The background is a deep blue, with the lights appearing as bright yellow and white clusters and lines.

WELCOME

2024 NATIONAL ENERGY CODES CONFERENCE



Go to **menti.com** on your computer or phone and type in the participant code.

Participant Code: **42 78 39 4**

Day 1 | Tuesday, May 7 10:30–11:30 am (California/Balboa/Calaveras) ■

Federal Funding and Assistance Opportunities for Building Energy Codes



Bing Liu
Pacific Northwest
National Laboratory



Jeremy Williams
U.S. Department
of Energy



Ashley Armstrong
U.S. Department
of Energy

DOE Codes Grant Funding Programs

Infrastructure Investment and Jobs Act (IIJA) Codes (Resilient and Efficient Codes Implementation)

\$225 million to support the implementation of updated codes along with the development of critical partnerships and supporting scaffolding to accelerate workforce training, stakeholder engagement, and equitable outcomes

Inflation Reduction Act (IRA) Codes

\$1 billion to support the adoption and implementation of the latest building energy codes, zero energy building codes, or innovative codes such as building performance standards, with equivalent energy savings.

Inflation Reduction Act (IRA)



Section 50131: Assistance for Latest and Zero Building Energy Code Adoption

- \$1B in support for building energy codes:
 - **\$330M** supporting the latest model energy codes (2021 IECC, ASHRAE Standard 90.1-2019), or equivalent or greater energy savings
 - **\$670M** supporting zero energy codes (zero energy provisions in the 2021 IECC), or equivalent stretch code
- IRA targets states directly, as well as local governments with authority to adopt building codes
- States are also required to implement a plan to achieve *full* compliance in new and renovated residential and commercial buildings, which plan shall include active training and enforcement programs and measurement of the rate of compliance each year

DOE Codes Grant Funding Overview

	Resilient and Efficient Code Implementation (RECI)	Assistance for the Adoption of the Latest and Zero Building Energy Codes	
	Competitive	Formula	Competitive
Statute	BIL Section 40511	IRA Section 50131	IRA Section 50131
Funding Document	RECI I FOA – Awarded Summer 2023 RECI II FOA – Released March 2024	ALRD - Formula	FOA - Competitive
Funding Amount	\$225M	\$400M	\$530M
Eligible Applicants (Prime)	Anyone, including supporting organizations – provided that a State or Tribal government is part of the project team	States and Territories with the authority to adopt building energy codes	States, Territories, and units of local government with the authority to adopt building codes
Code Adoption (Required)	Any energy code that results in increased energy efficiency compared to the previously adopted code	Only latest Model energy codes (ASHRAE 90.1-2019, ASHRAE 90.1-2022, and IECC 2021) or zero energy codes that DOE has pre-approved	Only latest model energy codes, zero energy codes, or innovative codes with equivalent energy savings (e.g., BPS or custom code)

DOE Codes Grant Funding Overview

	Resilient and Efficient Code Implementation (RECI)	Assistance for the Adoption of the Latest and Zero Building Energy Codes	
	Competitive	Formula	Competitive
Complimentary Activities (Examples)		Workforce Development Analysis and Technical Drafting Resilience Software Development Stakeholder Engagement Equity & Environmental Justice Capacity Building and Partnerships Compliance and Enforcement	
Period of Performance	Up to 5 years	Up to 9 years	Up to 9 years
Program Website	Link	Link	Link
Program Contact	RECI_FOA@ee.doe.gov	IRACodes@hq.doe.gov	IRACodes@hq.doe.gov
Program Newsletter Signup	Link	Link	Link

Bipartisan Infrastructure Law (BIL) – Section 40511

Title: Cost-effective Codes Implementation for Efficiency and Resilience

Funding: \$225M (\$45M per year FY22 - FY26)

Summary:

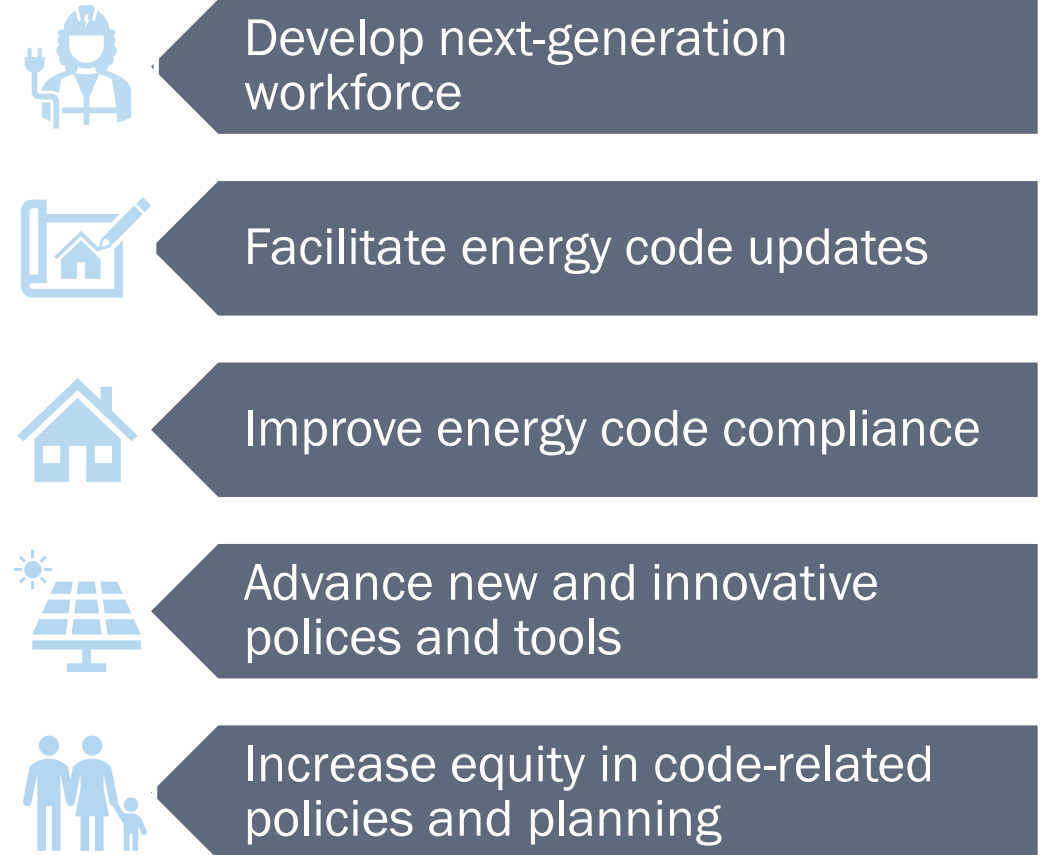
- Competitive grant program to enable sustainable and cost-effective implementation of updated building energy codes across the U.S.
 - Encourages “partnerships” comprised of states and key stakeholders (e.g., local governments, code developers, builders, architects, engineers, etc.)
 - Supports code updates—but not limited to only the latest codes (2021 IECC and 90.1-2019)
 - Targeted Activities: Education & training, compliance research, implementation planning, needs in rural vs. urban areas, and other activities supporting state and local implementation
- > BTO’s Resilient and Efficient Codes Implementation (RECI) FOA embodies this new initiative—first installment resulted in 27 new awards totaling \$90 million (July 2023)

RECI1: Areas of Interest and Targeted Outcomes

Key Areas of Interest



Targeted Outcomes



> Activities are intended to be crosscutting and cover multiple areas of interest

The first installment of BIL funding (RECI) provided \$90M to 27 different projects

State and Local Code Adoption

- 2813-1520 - Slipstream Group Inc: Building a Strong Foundation for Wisconsin Code Adoption, Compliance, and Local Support
- 2813-1560 - Colorado Energy Office: Colorado Advanced Energy Code Adoption and Enforcement Program

Workforce Development

- 2813-1565 - Alaska Housing Finance Corporation: Framework for Responsive Code Development in Alaska
- 2813-1582 - Pennsylvania Department of Environmental Protection: Maximizing Workforce for Energy Efficient Buildings and Building Construction in Pennsylvania
- 2813-1549 - American Society of Heating, Refrigerating and Air-Conditioning Engineers: Energy Code Official – Training & Education Collaborative (ECO-TEC)
- 2813-1568 - Southeast Energy Efficiency Alliance: Securing Energy Code Advancements in Louisiana

Implementation and Compliance

- 2813-1522 - Southeast Energy Efficiency Alliance: Georgia Residential Energy Code Field Studies: Single-family and Multifamily
- 2813-1542 - Northeast Energy Efficiency Partnerships: Pennsylvania and Delaware Energy Code Field Studies
- 2813-1523 – International Code Council: CODES: Code Official Digitization and Efficiency Support
- 2813-1524 - Karpman Consulting, LLC: Automation of Performance-based Compliance Quality Control and Reporting
- 2813-1544 - California Energy Commission: Digital Infrastructure to Support Energy Code Compliance and Implementation
- 2813-1519 - Energy Futures Group: Vermont Building Energy Code Administration Project

Innovative Approaches

Stretch Codes

- 2813-1577 - Massachusetts Department of Energy Resources: Massachusetts Integrated Deployment of a Decarbonized Long-term Energy Code (MIDDLE-C)
- 2813-1510 - Center for Energy and Environment: Minnesota Advanced Energy Codes Partnership: A Path to Net Zero
- 2813-1595 – City of Fort Collins: Zero Carbon Performance Code Implementation
- 2813-1502 - New Buildings Institute: District of Columbia Net Zero Code Implementation

BPS

- 2813-1588 - Earth Advantage: Advancing Building Performance Standards in Oregon
- 2813-1554 - University of Cincinnati: Developing a cost-optimal, equitable approach to building performance standards in Ohio's large cities
- 2813-1580 - ClearlyEnergy, Inc.: Designing & Implementing Building Performance Standards in Small, Rural, and Justice40 Communities
- 2813-1537 - Institute for Market Transformation (IMT): Supporting Equitable Building Performance
- 2813-1528 - Elevate Energy: Building Performance Resource Hub
- 2813-1556 - Colorado Energy Office: Advancing Building Performance Standards (BPS) in Colorado

EEEJ

- 2813-1570 - Southeast Energy Efficiency Alliance: Closing Equity Gaps to Advance Codes and Standards
- 2813-1514 - Clean Energy Group, Inc.: Climate Resilient Energy Codes for Multifamily Affordable Housing

Partnerships

- 2813-1597 - Metropolitan Energy Center: Mid-America Collaborative for Codes Workforce Development and Implementation
- 2813-1553 - American Council for an Energy-Efficient Economy (ACEEE): National Energy Codes Collaborative
- 2813-1505 - New Buildings Institute: Resilient Southwest Building Code Collaborative

RECI2: Highlights + Expanded Priorities

RECI2 features key topics from previous round and adding topics to address specific gaps and opportunities for greater impact.

Expanded Areas of Interest:

- High-impact states: Dated codes and high construction
- Rural Areas and implementation strategies
- Tribal Governments: Eligible under BIL
- Utilities Partnerships + Data

Important Dates:

- Concept Papers were due March 2024
- Full Applications due June 6th, 2024
- Announcement of awards in August 2024 (*planned*)

Key Upcoming Deadlines

RECI FOA

Full Applications Due

June 6, 2024

IRA Codes FOA

Round 1 Full Applications Due

April 30, 2024

Round 2 Concept Papers Due

May 31, 2024

Round 2 Full Applications Due

September 13, 2024

IRA Codes Formula

End of Year 1 Adoption Bonus

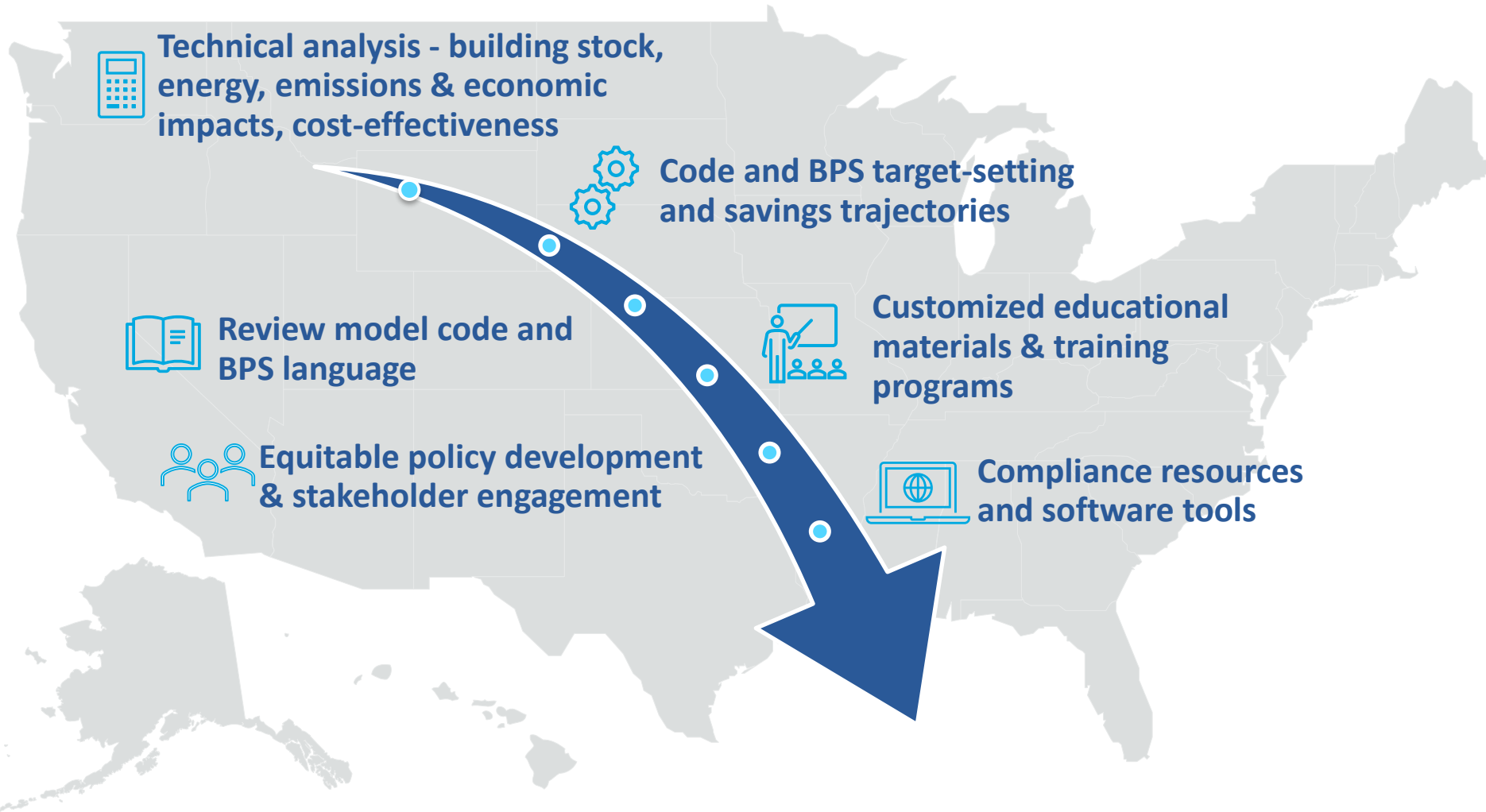
November 21, 2024

Final Full Application Deadline

September 30, 2025

DOE's Technical Assistance

DOE offers a comprehensive collection of **information, resources, and technical assistance** to answer questions and address issues related to energy codes and building performance standards.



Stakeholders



State & Local Governments



Energy Efficiency Organizations



Code Development Bodies



Building Design, Construction and Code Enforcement



Building Owners & Operators



Utilities

Thank You

Ashley Armstrong
State & Community Energy Programs
Ashley.Armstrong@hq.doe.gov

Jeremy Williams
Building Technologies Office
Jeremy.Williams@ee.doe.gov



U.S. DEPARTMENT OF
ENERGY

Office of ENERGY EFFICIENCY
& RENEWABLE ENERGY



A satellite night view of the United States, showing the outlines of the continents and the glowing patterns of city lights and infrastructure across the landmass. The background is a deep blue, with the lights appearing as bright yellow and white clusters and lines.

WELCOME

2024 NATIONAL ENERGY CODES CONFERENCE