

One Size Doesn't Fit All:

Shaping Technical Assistance to Support Energy Codes

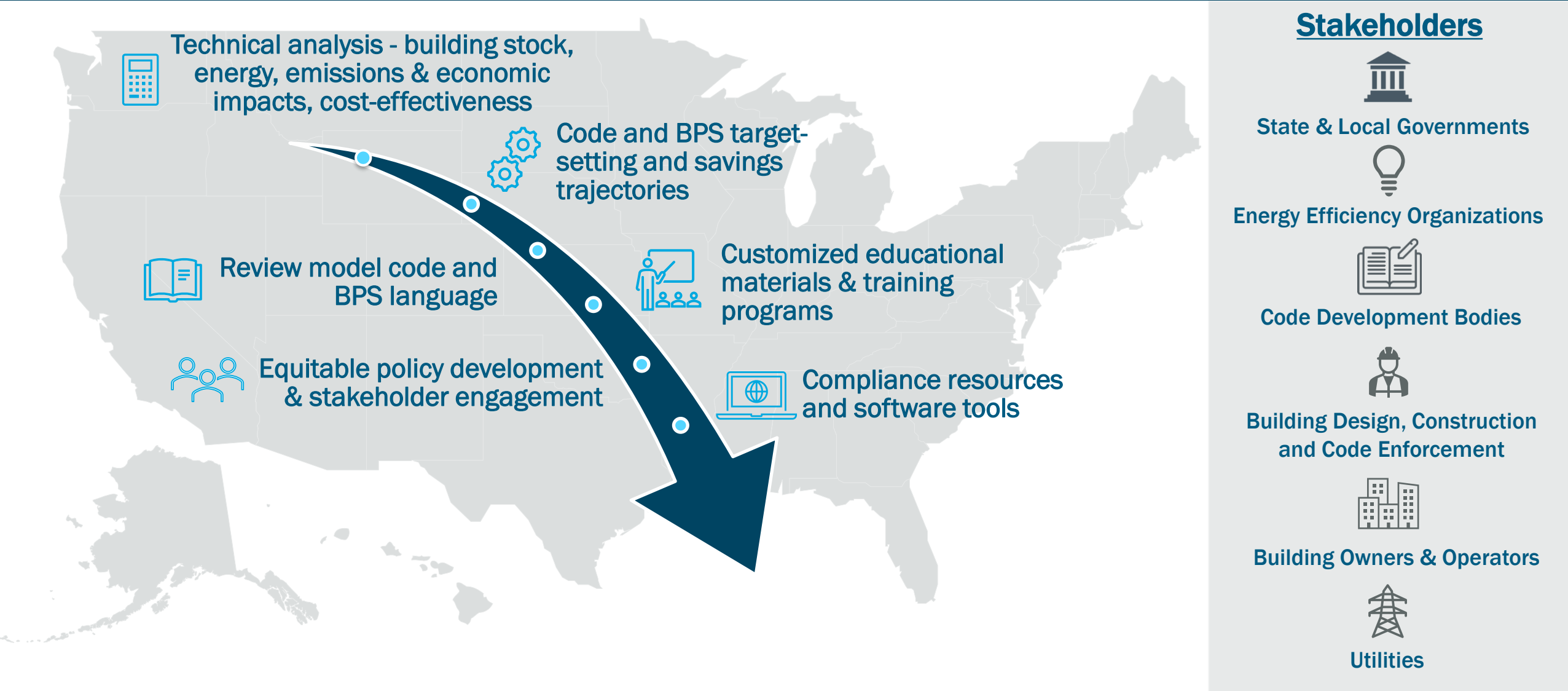
DOE National Energy Codes Conference

Sacramento | May 8



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.

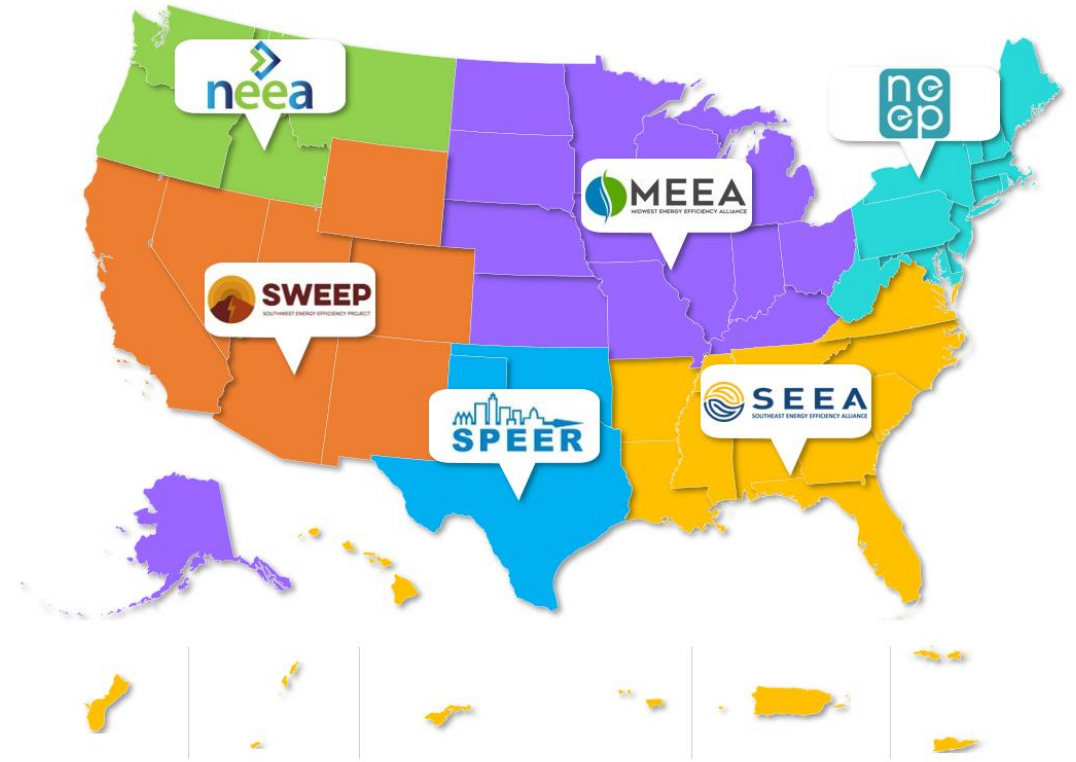


Building Energy Codes TA Network

> Prioritized and Proactive State and Local Technical Assistance

DOE Energy Codes		
PNNL	REEOs	BIL/IRA Initiatives
Expanded Responsive and Proactive Assistance 1 Regional Reps 2 SMEs 3 Analysis 4 E&T 5 Resources 6 Compliance	NEEP	Collaboratives Convenings Peer to Peer Adoption Support BPS + Codes Stretch Codes EEEJ Implementation Tech Resources Workforce Dev Training
	MEEA	
	SEEA	
	SPEER	
	SWEEP	
	NEEA	

DOE Technical Assistance Network



Technical Assistance Network Primary Contacts

Region	REEO Energy Code Contact	PNNL Regional Representative
NEEP	Cornelia Wu cwu@neep.org	Mike Turns Mike.turns@pnnl.gov
SEEA	Maggie Kelly-Riggins mkelleyriggins@seealliance.org	Kim Cheslak Kim.cheslak@pnnl.gov
MEEA	Alison Lindburg, alindburg@mwalliance.org	Mark Lyles Mark.lyles@pnnl.gov
SPEER	Randy Plumlee, rplumlee@eepartnership.org	Paula Zimin Paula.Zimin@pnnl.gov
SWEEP	Jim Meyers jmeyers@swenergy.org	Paula Zimin Paula.Zimin@pnnl.gov
NEEA	Kevin Rose krose@neea.org	Mark Lyles Mark.lyles@pnnl.gov

Breakout Groups

1. **Adoption:** Ian Blanding, DOE
2. **Compliance & Enforcement:** Kim Cheslak, PNNL
3. **Workforce Development:** Nicole Westfall, DOE
4. **Stretch Codes & Advanced Measures:** Mark Lyles, PNNL
5. **Messaging and Communication:** Erin Beddingfield, DOE

Adoption

State and Local Energy Code Adoption

Key Issue:

The energy code adoption process is often opaque, complex, and involves stakeholders with deeply entrenched views. This can result in limited stakeholder engagement and difficulty reaching a compromise solution where residents see the full range of benefits.

What creative solutions exist to advance energy codes and create win-win outcomes for all involved?

Discussion Topics and Questions:

- Home Rule vs. Dillon Rule States
- Multicycle Adoption & Establishing Targets
- Stakeholder Engagement Strategies
- Utility Support & Code Attribution
- Code Impact Analysis
- Additional Resource Needs

Code Adoption Resources

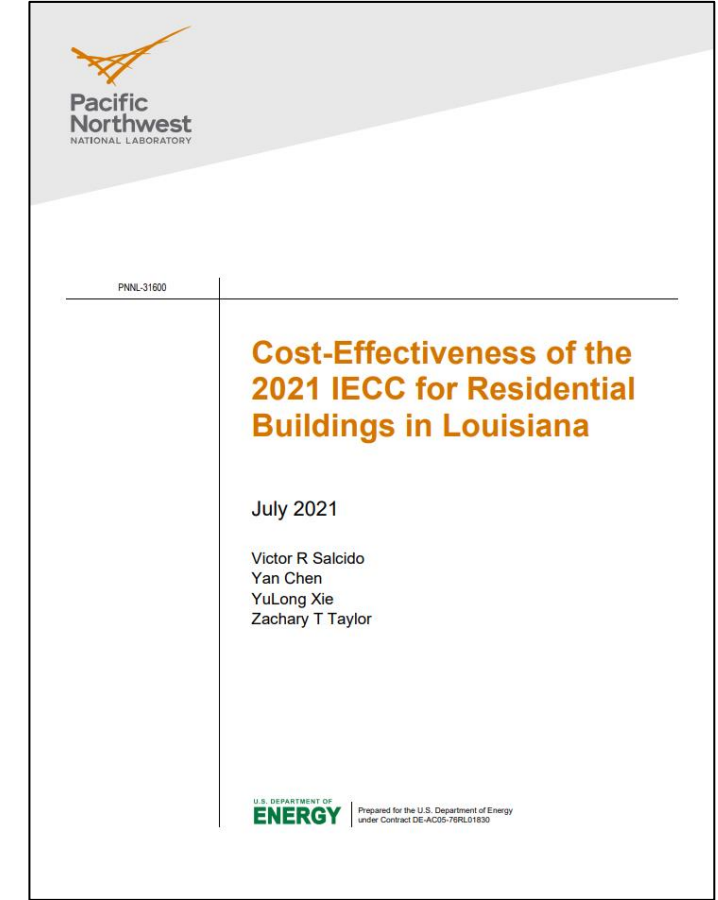
BIL & IRA Initiatives

\$1.2 billion

Stakeholder Network



Code Impacts Analysis



Compliance & Enforcement

Compliance and Enforcement

Key Issues:

- Achieving Consistent compliance and enforcement rates
- Compliance as a hurdle to updating to newer codes
- Compliance as a need to achieve jurisdiction goals

Discussion Topics and Questions:

- How do we support compliance? What's working and what isn't?
- Are we supporting the right people at the right compliance stages (designers, code officials, builders, trades)?
- What are the major needs around compliance and enforcement?
- How are those needs changing as jurisdictions adopt newer codes?

Compliance and Enforcement Resources

Compliance Support Tools

- COMcheck and REScheck
- Performance-Based compliance forms

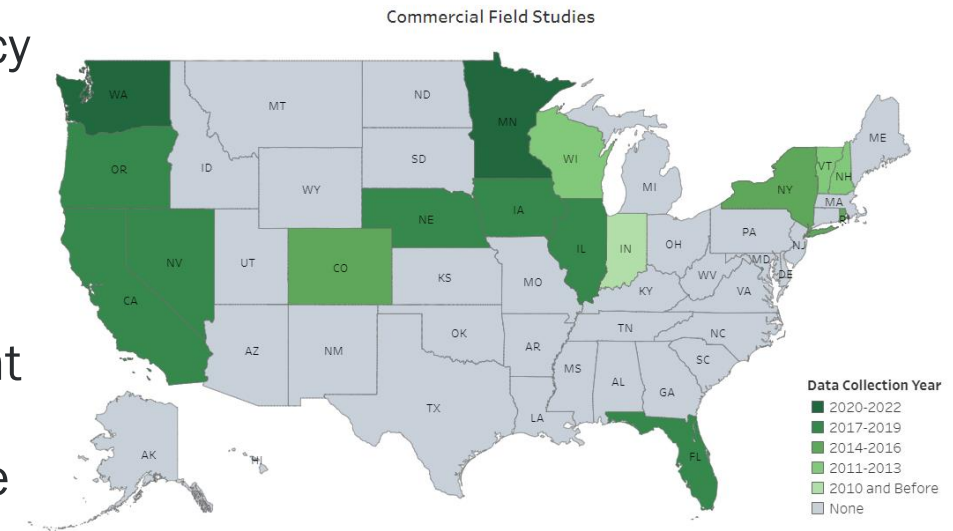


Field Studies

- Established Methodologies for Single Family and Commercial
- Multifamily Methodology under development
- Toolkits being developed to support increased consistency to implementation and lower barriers to entry for those interested in studies.

Trainings/Resources

- Opportunities for training on adopted codes, development of training on key pain points
- Resources developed out of field studies and others have focused heavily on compliance as a goal



Workforce Development

Workforce Development

Key Issues:

- Training the current workforce on new policies and best practices
- Growing the workforce
- Expanding how we define the “buildings/codes workforce”

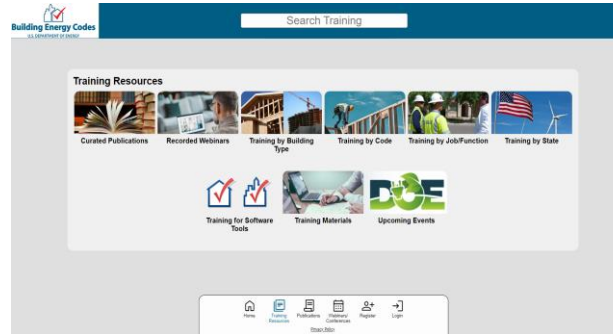
Discussion Topics and Questions:

- How to better bring opportunities to members of the workforce are hard to engage but need engagement most? Who are we doing a good job of reaching and who is being left behind?
- How do we get the word out about existing training/job opportunities?
- How do we grow the workforce? What is working and what isn't?
- How do we bring in new perspectives?

Workforce Development Resources



Trainings



Resource Hubs



Industry Events

Stretch Code & Advanced Measures

Stretch Code & Advanced Measures

Key Issues:

- Providing code support to jurisdictions with ambitious climate goals
- Working within the existing model code frameworks
- Developing compliance tools and resources to support adoption

Discussion Topics and Questions:

- 2024 IECC Appendices and Resources
 - Zero energy and glide path to zero (residential)
 - EV Charging
 - Solar readiness
- Decarbonization measures
- 90.2, Passive Design Standard (in development) and Green codes (189.9/IgCC)
- Jurisdictionally developed custom stretch codes (NY, MA, CA)

Stretch Code & Advanced Measures

Keys to Success:

- Broad stakeholder engagement and participation representing residential, commercial and multifamily market segments
- Alignment with utility goals and incentives
- Provide tools and resources to support adoption and implementation

Want Greener Buildings? Stretch Codes Get You There Faster.

Adopting stretch codes can drastically improve building energy efficiency beyond existing codes, and put buildings on the path to zero energy by 2050.



© Copyright 2017 New Buildings Institute

Messaging & Communication

Messaging and Communication

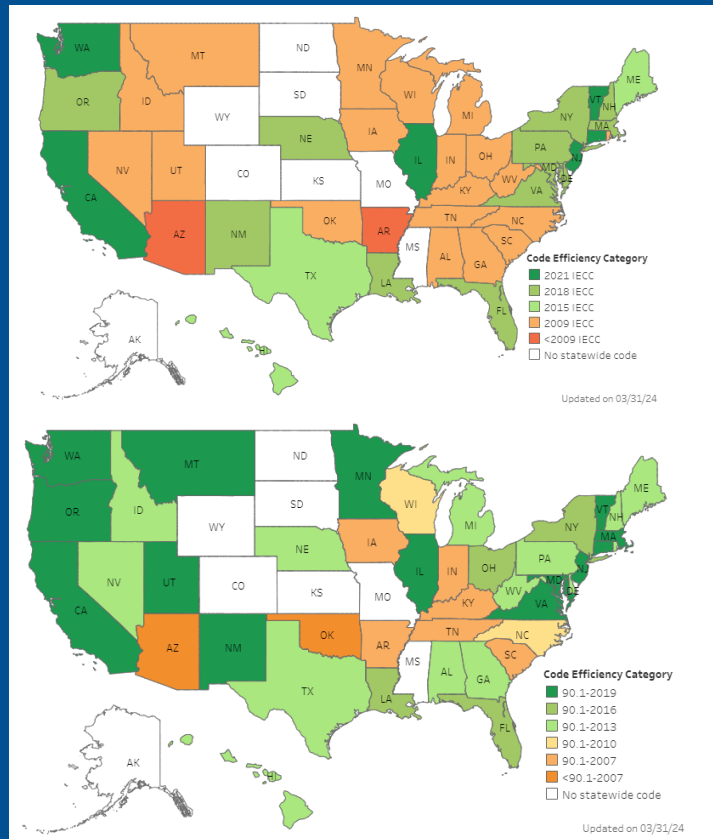
Key Issue:

TA support is often provided to technical staff who already have a level of understanding of code-related topics. Outputs then need to be communicated to broader audiences with less understanding or different priorities. ***How does the TA network better meet audiences where they are?***

Discussion Topics and Questions:

- Identifying new audiences and messengers
- Understanding the actual needs and priorities of target audiences
- Types of collateral for different audiences
- Messaging around non-energy benefits
- Resource format (medium, language, etc.)
- Distribution channels (where and how)

Messaging and Communications Resources



Pacific Northwest NATIONAL LABORATORY

PNL-33251

Impacts of Model Building Energy Codes

November 2023

M. Tyler
E. Poehlman
D. Winiarski
M. Niemeyer
M. Rosenberg

U.S. DEPARTMENT OF ENERGY Prepared for the U.S. Department of Energy under Contract DE-AC05-78RL01830

Building Energy Codes Technical Assistance Network

The Department of Energy (DOE) Building Energy Codes Program (BECP) mission is to support building energy code development, adoption, implementation, and enforcement. The Bipartisan Infrastructure Law and Inflation Reduction Act have made significant new funds available to states and local jurisdictions specifically to improve building energy codes and achieve the maximum practicable, cost-effective improvements in energy efficiency while ensuring safe, healthy buildings for occupants.

Code adoption, implementation, and enforcement take place at state and local levels, varying significantly from state to state. To meet states where they are and better understand specific needs and priorities related to building energy codes, BECP is expanding proactive, individualized engagement with states and local jurisdictions. BECP continues to offer a robust and ever-evolving collection of information and technical assistance resources available online to help all states, territories, jurisdictions, and tribes save energy and improve their buildings.

Plugging Into the Network

Facilitated by [Pacific Northwest National Lab \(PNNL\)](#), in coordination with the six [Regional Energy Efficiency Organizations \(REEOs\)](#) and [additional technical assistance providers](#), the Network will utilize regional code professionals, building science experts, and experienced trainers to customize technical assistance to states and jurisdictions. Access to the network is available now.

Get in touch: Contact your [PNNL Regional Representative](#) or [Local REEO](#)

Attend Events: Engage in collaboratives, technical working groups, webinars, and conferences. Find upcoming events [here](#) and subscribe to [BECP mailing lists](#) to stay informed.

Access Resources: Find a full list [here](#) and on [energycodes.gov](#)

Maximizing State and Local Code Impacts

To amplify the impacts of federal funding, the expanded BECP technical assistance is designed to provide complementary resources - such as code development and benefits analysis, compliance tools and assessment, and direct education and training - to help states and local governments achieve their goals. Increased building energy codes adoption and compliance will save energy, and support state and local objectives around job creation, resilience, equity and climate.

1

Breakout Groups

1. **Adoption:** Ian Blanding, DOE
2. **Compliance & Enforcement:** Kim Cheslak, PNNL
3. **Workforce Development:** Nicole Westfall, DOE
4. **Stretch Codes & Advanced Measures:** Mark Lyles, PNNL
5. **Messaging and Communication:** Erin Beddingfield, DOE