

Welcome to the waiting room. We'll begin shortly.



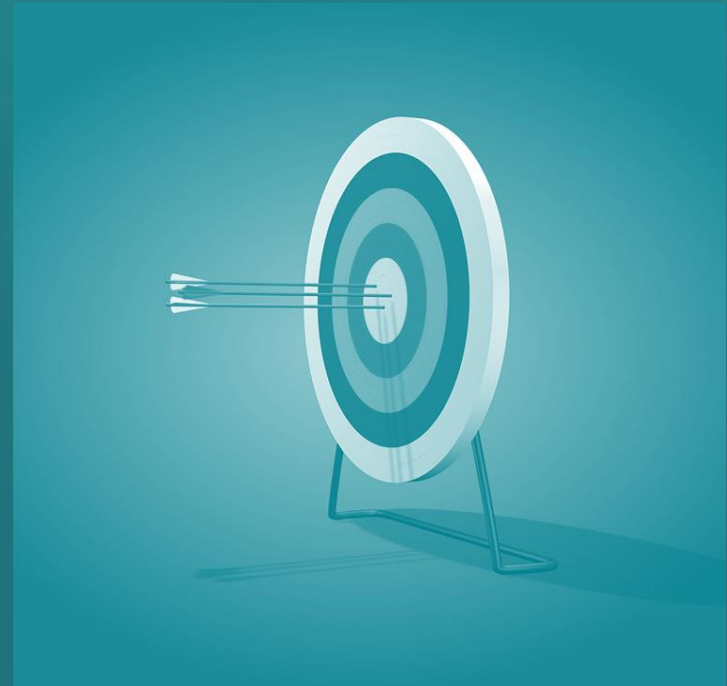


New Jersey Zero Energy Building (ZEB) Code Collaborative Meeting #3

Tuesday, May 25th, 2021

Goals for the Meeting

The purpose of this meeting is to discuss pathways and priorities for the Zero Energy Buildings Roadmap



Agenda



- Welcome and Introductions
- Code Legislation
- Roadmaps in Other States
- ZEB Roadmap Discussion
- Next Steps and Closing Remarks

Housekeeping



- GoToWebinar Troubleshooting:
 - *For best audio quality, call in using your phone to the number provided and enter your pin*
 - *If you have any technical issues, comments, or questions, please type them into the chat box*



Type questions into chat box or “raise your hand”

Please self mute!

Slides and notes will be shared following the meeting

Round of Introductions



Legislative Context

Bills Related to Codes

NJ A1145: Establishes "Electronic Permit Processing Review System."

- Passed on 4/30/21
- Directs DCA to establish, develop, implement, and administer an E-permitting system
- Modernizes and streamlines permitting process

NEEP's E-Permitting/Virtual Inspection Brief

NJ A5658: Zero Energy Construction Act

- Introduced on 5/12/21
- Zero Energy "Ready" for all new res/comm construction by 2025
- Directs DCA, DEP, and BPU to collaborate on ZE construction educational resources and rulemaking to reach 2025 goal

Past State Roadmaps

NHCC History

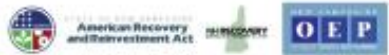


New Hampshire Gap Analysis

February 2011



Prepared by the Building Codes Assistance Project for the United States Department of Energy



BCAP Dedicated to the adoption, implementation, and advancement of building energy codes



NEW HAMPSHIRE ENERGY CODE

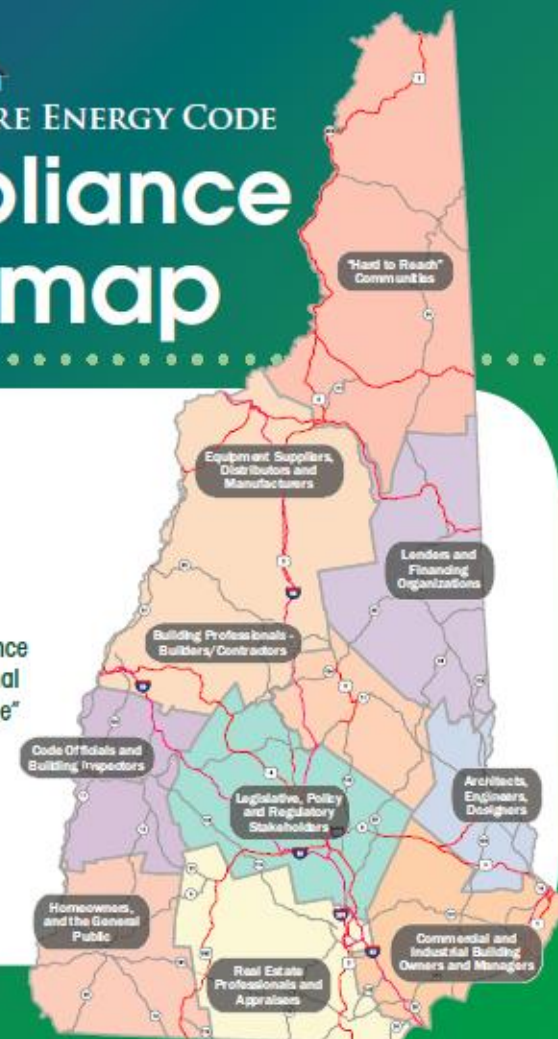
Compliance Roadmap

FULL REPORT

"Achieving 90% Compliance with the 2009 International Energy Conservation Code"



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New Hampshire Energy Code Collaborative Roadmap to Become State Leaders in Codes by 2025

The New Hampshire Building Code Collaborative is a diverse group of stakeholders working together to reduce energy usage in buildings & homes by advancing adoption of and improving compliance with building energy codes.

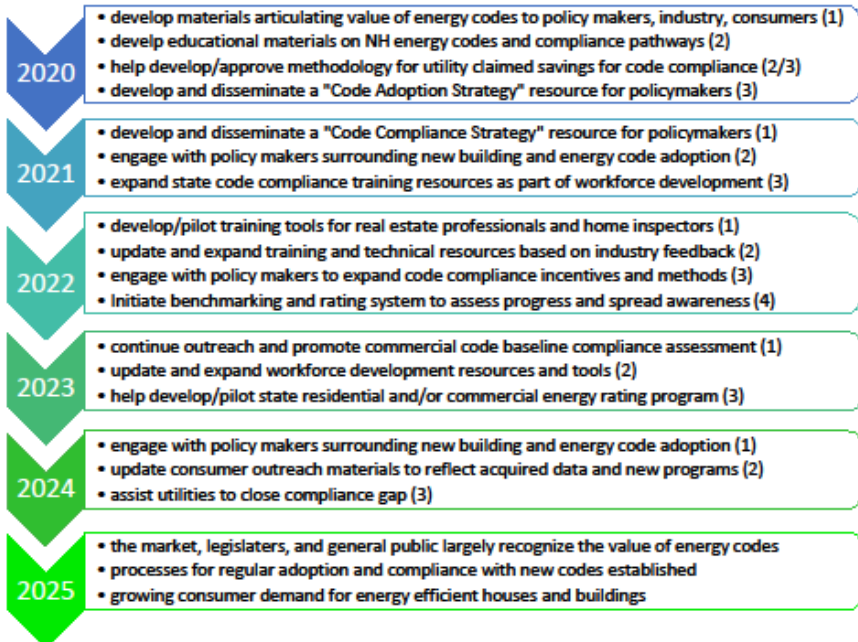
The Collaborative's goals are to:

- ★ Improve compliance rates of buildings and homes with the state energy code
- ★ Adopt new energy codes without weakening amendments
- ★ Establish a statewide energy stretch code and allow municipalities to exceed statewide base code
- ★ Discover funds for workforce development training
- ★ Establish a skilled industry workforce ready for current and future energy codes
- ★ Create incentives for builders and utilities, such as code attribution, for complying with energy codes.

To meet these goals, the Collaborative has identified the following long-term strategies:

- ✓ Expand and centralize energy code compliance resources for industry workers and state officials;
- ✓ Broaden outreach to stakeholders and the public on the benefits of the energy code;
- ✓ Provide technical input into legislative and regulatory code activities;
- ✓ Encourage localities to strive towards energy efficiency levels beyond statewide base code.

Using these strategies, we propose the following roadmap to become energy code leaders:



Do you share these goals? Help us get there. Contact Moses Riley (mriley@neep.org) to join us!

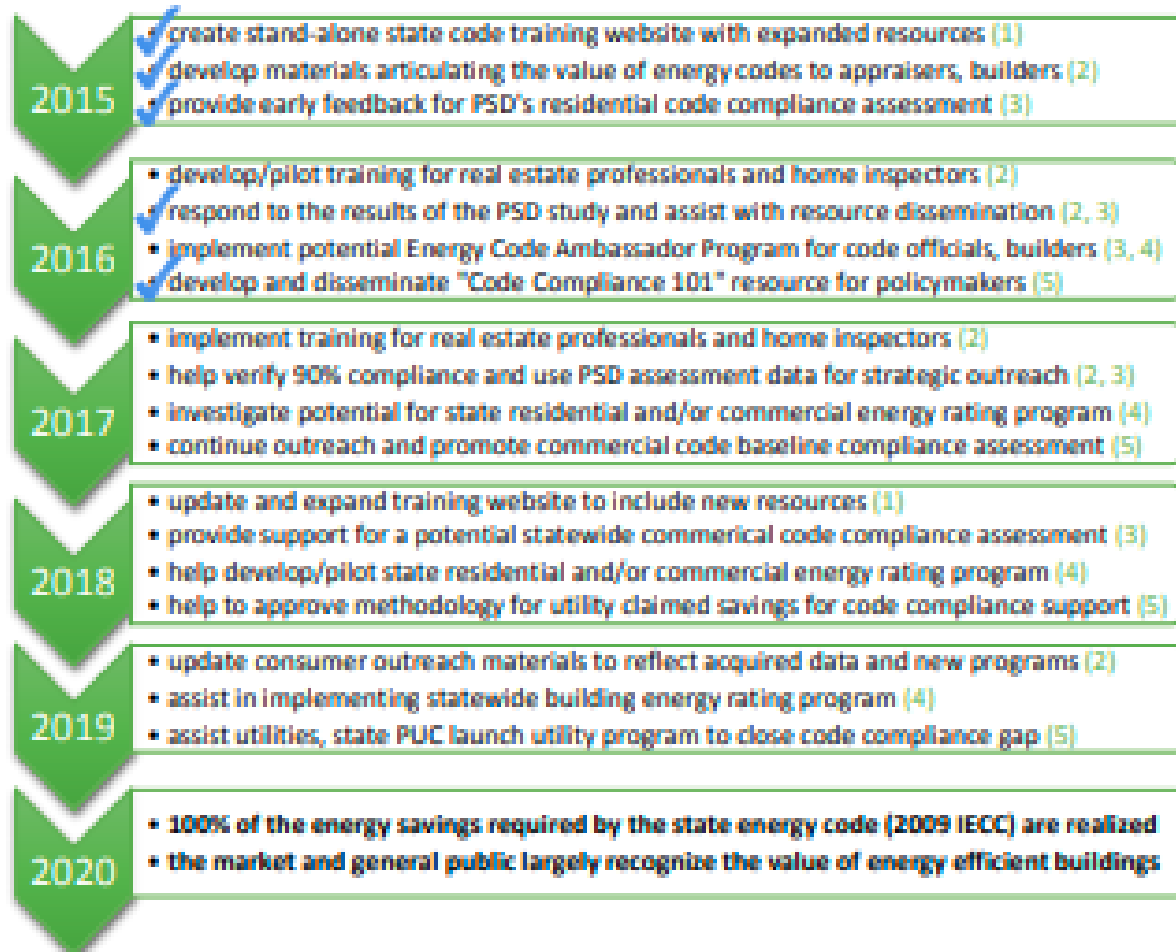
Example: New Hampshire Roadmap



Policy/ Measure Type	Action	Lead (If Different From NHCC)	Potential/Necessary Partners	Notes
Overarching	Engage with the NH Building Code Review Board (BCRB) and Board of Fire Control (BFC) during the code and code amendment adoption process			
Overarching	Increase collaborative participant list to include more diverse perspectives			
Overarching	Create an ongoing forum for collaborative discussion of energy code compliance and enforcement issues.			
Overarching	Establish a policy roadmap towards all new construction being built to zero energy codes and standards.			This should involve working closely with the NHSaves programs because it is a shared goal.
Overarching/Market Demand	Develop materials articulating the value of energy codes to appraisers, builders, policy makers, consumers, and other relevant stakeholders			
Building Performance	Commercial: Create a mechanism to benchmark building energy and water use and greenhouse gas emissions.			Jurisdictions that do this: NYC, and Boston and Cambridge, Mass; Delaware
Building Performance	Residential: Develop rating systems for residential homes for time of sale information/data.			
Code Development	Ensure that the robust quantitative analysis of the benefits of code are available to relevant legislative, regulatory, and advisory boards and committees.		Legislative: ED&A Committee Regulatory: BCRB, and BFC Advisory: EESE Board	Cross reference to "Research" Actions

Example: Pennsylvania Roadmap

Using these strategies, we propose the following Collaborative roadmap to increased code compliance:



Format of ZEB Roadmap

Technical Barriers And Opportunities to Achieve ZE Schools in MA

Key Topical Areas	Description of Barriers and Opportunities		NEEP Priority Level (low, medium, high)
Workforce	<i>Barrier</i>	There is a lack of qualified building operators, facility managers, and building professionals familiar with ZE school technologies and operations. Without a pool of local, qualified professionals, there may be resistance to building ZE schools.	Medium
	<i>Opportunity</i>	Expand workforce training of ZE schools professionals to increase pool of local, qualified professional through state legislation or utility program funding.	
Design Feasibility	<i>Barrier</i>	Design professionals may consider zero energy to be unattainable in this climate (higher upfront costs, technology, etc.). Space on site may be limited for achieving zero energy measures.	High
	<i>Opportunity</i>	Showcase those schools that are achieving ZE (or near ZE) performance. Catalogue the technologies used, costs, etc. Share via webinar and other dissemination strategies to design teams and communities. Facilitate peer-to-peer exchange for the design community. Hold listening session	

Questions



ZEB Roadmap Recommendations



Establish a Zero Energy Code Adoption Timeline

Timeline	Code Update
2022	DCA reviews and adopts ICC 2021 codes including IECC 2021 in Uniform Construction Code
2024-2025	Adopt new base code (ICC 2024 Codes) with considerations for zero energy ready and/or electrification requirements for all building types
2024-2025	Develop and adopt a voluntary stretch code based on zero energy provisions for electrification, elimination of on-site combustion, and grid connectivity
2027-2028	Adopt Zero Energy base code for all building types (based on ICC 2027 Codes)

What are some other “feasible achievements”?



1. Research and analysis of grid impacts from building electrification and electric vehicles
2. Lifecycle cost analysis of zero energy buildings
3. Adoption of Solar Ready Appendices from IECC 2018
4. Adoption of ZE Appendices from IECC 2021
5. Identify ways to coordinate state financing initiatives for building decarbonization
6. Energy efficiency and electrification funding for LMI communities
7. ZE requirements for affordable new construction (**HMFA Green Construction Tax Credit**)
8. Energy efficiency and electrification updates to the Rehabilitation (Existing Buildings) Subcode
9. Building Energy Performance Standards (BEPS)
10. Expansion of utility incentives for whole building performance, building electrification technology, and weatherization
11. Research and analysis on the existing building retrofit market
12. Lead by Example" Initiatives for state-owned/financed buildings
13. Expand Energy Code Training Opportunities
14. Electronic Permitting/Virtual Inspections capacity
15. Energy efficiency focused workforce training programs

Next Steps

- Officially switching to Zoom!
- Roadmap review
- Topic for next meeting



For additional info and questions, contact:
kpunning@neep.org