

ENERGY CODES | 2022

2022 NATIONAL ENERGY CODES CONFERENCE
HOSTED BY THE U.S. DEPARTMENT OF ENERGY

July 19-21 | Virtual

U.S. DEPARTMENT OF
ENERGY | Office of ENERGY EFFICIENCY
& RENEWABLE ENERGY


Building Energy Codes
U.S. DEPARTMENT OF ENERGY

ENERGY CODES BOOTCAMP Tuesday, July 19 (All times Eastern)

	Energy Codes 101
	REScheck Basics
	COMcheck Basics

Day 01 Wednesday, July 20 (All times Eastern)

12:00 – 12:20p	Welcome & Opening Remarks		
12:20 – 12:50p	Keynote		
12:50 – 1:00p	Break		
1:00 – 2:00p	Infrastructure Funding to Support the Implementation of Resilient and Efficiency Codes		
2:20 – 2:10p	Break		
2:10 – 3:10p	The Intersection of Codes and BPS		
3:10 – 3:20p	Break		
3:20 – 4:40p	How Building Energy Codes Fit Your State's or City's Climate Plan		
	Breakout 1	Breakout 2	Breakout 3

Day 02 Thursday, July 21 (All times Eastern)

12:00 – 12:20p	Welcome + Day 1 Recap		
12:20 – 12:50p	Keynote		
12:50 – 1:00p	Break		
1:00 – 2:00p	Setting Targets: Getting to Zero Energy Codes or Carbon Over Time		
2:00 – 2:10p	Break		
2:10 – 3:20p	Advancing Decarbonization via Energy Codes - Impacts and Lessons Learned		
	DERs	Enhanced Envelope and Construction	Renewable Energy Generation
3:20 - 3:30	Break		
3:30 – 4:30p	How Energy Codes Help Communities Improve Resilience		
4:30 - 4:40	Closing		

2022 NECC Draft Session Descriptions:

Infrastructure Funding to Support the Implementation of Resilient and Efficiency Codes

Section 40511 of the Infrastructure Investment and Jobs Act (IIJA) provides \$225M in funding to drive the cost-effective implementation of updated building energy codes supporting improved efficiency and resilience. This will result in a new DOE initiative supporting energy codes, and has the potential to help transform energy code adoption and implementation across the country. This session will cover the latest updates on the status of the new competitive grant program, including key topics such as partnerships, workforce development, innovative approaches, energy and environmental justice, and more.

The Intersection of Codes and BPS

Energy codes have long helped ensure efficiency during new construction and major renovations, but there is also an urgent need to improve the existing building stock beyond where building codes traditionally apply. To help address this need, dozens of state and local governments are considering building performance standards (BPS), an emerging policy mechanism that gained significant attention in the last few years for its ability to drive efficiency and decarbonization. There are still many open questions around BPSs and, in particular, how they align with new construction codes. This panel will discuss the latest developments and progress around BPS policies and programs including work from ASHRAE, the National BPS Coalition, and the network of supporting organizations working to improve building performance.

How Building Energy Codes Fit Your State's or City's Climate Plan

Cities and states around the country have announced ambitious energy, climate, and air pollution goals but too often these communities miss the opportunity to leverage building energy codes to achieve their goals. This session will convene a discussion of state and local government representatives to discuss how energy efficient building codes can directly contribute to achieving climate goals and be better integrated into policy decisions. Participants will hear about how state and local governments can collaborate to achieve shared priorities and facilitate conversations between different levels of government.

Setting Targets: Getting to Zero Energy Codes or Carbon Over Time

Many states, local governments and industry organizations aim to achieve zero net energy (ZNE) new buildings by 2030 but often lack energy code mechanisms to realize this goal. This session will walk through examples of how to plan for and achieve zero energy/carbon codes, including potential methods to establish stepwise energy targets for achieving zero energy and carbon via building codes. The session is intended to provide technical guidance, support goal setting, and instigate discussion which can help inform future code development and update processes.

Advancing Decarbonization via Energy Codes – Impacts and Lessons Learned

Measures to expand distributed energy resources and decarbonization are appearing in energy codes with increasing frequency, marking a shift in energy codes to not only considering energy efficiency criteria, but also measures that reduce greenhouse gas emissions and encourage demand flexibility. This session will discuss how energy codes are tackling emerging policies around grid flexibility and decarbonization in the model energy codes, include examples such as electric vehicle and solar requirements, grid-connected equipment, and electrification-ready measures. It will also feature lessons learned from municipalities implementing these measures.

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How Energy Codes Help Communities Improve Resilience

Communities nationwide increasingly recognize the value of resilient buildings in preparation for extreme weather and natural hazards. The federal government, states, and localities are addressing this need using different methods such as planning, zoning, and building codes. Building energy codes, in particular, support resilient buildings and communities by allowing some businesses to reduce closures during hazards, ensuring homes remain livable during and after events, and reducing power disruptions for state and local emergency services after an event. This session will address these topics and more, including to what extent energy codes should ensure basic needs be met when power is unavailable. It will also explore the role of energy efficiency and grid flexibility in the resilience planning process.