

ENERGY CODES | 2021

2021 NATIONAL ENERGY CODES CONFERENCE
HOSTED BY THE U.S. DEPARTMENT OF ENERGY

July 20-22 | Virtual

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



ENERGY CODES BOOTCAMP Tuesday, July 20 (All times Eastern)

12:00 – 12:30p	Energy Codes 101
12:30 – 1:30p	REScheck Basics
1:30 – 1:45p	Break
1:45 – 3:00p	COMcheck Basics

Day 01 Wednesday, July 21 (All times Eastern)

12:00 – 12:50p	Welcome and Opening Remarks Jennifer M. Granholm, <i>Secretary</i> , U.S. Department of Energy Kelly Speakes-Backman, <i>Acting Assistant Secretary for Energy Efficiency & Renewable Energy</i> David Nemetzow, <i>Director</i> , Building Technologies Office Jeremy Williams, Building Technologies Office		
12:50 – 1:00p	Break		
1:00 – 2:20p	Emerging State & Local Goals: From Zero Energy to Electrification to Decarbonization		
	Compliance	Equity	Resilience
2:20 – 2:30p	Break		
2:30 – 3:20p	All for Nothing: Energy Codes, Above-Code Programs and Zero Energy		
3:20 – 3:30p	Break		
3:30 – 4:30p	Workforce Development: Opportunities for Building Codes and Compliance Programs		
4:30 – 5:00p	Updates from the DOE Building Energy Codes Program Jeremy Williams, Building Technologies Office		

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Day 02 Thursday, July 22 (All times Eastern)

12:00 – 12:20p	Welcome + Day 1 Recap		
12:20 – 12:50p	Keynote Mark Chambers, RA, <i>White House Council on Environmental Quality</i>		
12:50 – 1:00p	Break		
1:00 – 2:20p	The Role of Building Codes in Shaping Equity and Environmental Justice		
	Development	Adoption	Implementation
2:20 – 2:30p	Break		
2:30 – 3:50p	Building Performance Standards – The Pathway to Zero-Carbon Buildings		
	Setting Goals and Metrics	Compliance and Implementation	
3:50 – 4:00p	Closing Remarks + Seminar Series		

Session Descriptions:

Emerging State & Local Goals: From Zero Energy to Electrification to Decarbonization

State and local governments continue to lead the charge in setting an ambitious climate agenda. Whether their priorities are centered on energy, cost, or greenhouse gas reductions, understanding the role of building codes is critical to understanding—and achieving—state and local goals. This session will explore key strategies actively being targeted by states and local governments to achieve their climate and energy goals by way of building energy codes. Breakout discussions will offer a forum for participants to identify critical needs and challenges, potential solutions, and provide feedback on how DOE can best tailor its building energy code technical assist to support the goals and aspirations of states and local governments.

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Building Energy Codes
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All For Nothing: Energy Codes, Above-Code Programs and Zero Energy

There's a convergence taking place between building energy codes, above-code programs, and zero energy. Recent editions of the IECC have in some cases surpassed performance specifications of above-code programs, and many are contemplating the trajectory of codes toward zero net energy (and zero 'readiness'). In this session, we'll take a look at some of the most prominent above-code programs, where they currently stand (including relative to the recent 2021 IECC), and where they'll need to head via future updates. Program representatives, ZNE builders and others will share their perspective on where the market is heading next, what it's taken to get here, and whether zero will indeed become mainstream in tomorrow's housing market.

Workforce Development: Opportunities for Building Codes and Compliance Programs

Major investments to power economic growth in our communities, energy infrastructure, and the future will require growing and retooling our current workforce. In parallel, states, local governments, and stakeholders across the design and construction industry are adapting to evolving building technologies and construction practices. Layered with challenges such as the current labor shortages and an aging workforce, developing and training a new, qualified workforce is paramount. This session will highlight key workforce development challenges and opportunities, including programs and initiatives enacted at the state and local levels. We'll also discuss opportunities to translate new skills to historically underserved communities, and how the industry can better address diversity within the building energy workforce.

The Role of Building Codes in Shaping Equity and Environmental Justice

Building energy codes are a critical policy tool to help enable a clean energy future and protect against evolving climate risks. Recent disaster events have exposed underlying vulnerabilities between buildings, energy systems and the communities they serve. In regions where building energy codes and other efficiency policies are not consistently updated or enforced, Environmental and Social Justice (ESJ) Communities can experience disproportionate risks of energy insecurity, adverse health outcomes, and climate change impacts. In this discussion, we will break down the process by which energy codes and other policies are developed, adopted, and implemented, while considering how these processes can empower a more equitable and inclusive clean energy transition for all.

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Building Performance Standards – The Pathway to Zero-Carbon Buildings

The ambitious climate goals emerging from leading states and local governments require solutions that address the energy and carbon footprint of the existing building stock. Enter, building performance standards (or BPS) a policy instrument relied upon by a growing number of jurisdictions to drive improvements of existing buildings. Through a BPS, building owners meet performance targets by actively improving their buildings over time. Reviewing states and cities with these policies already in place, we can draw valuable lessons that will inform the future development of BPS. Participants will hear what's happening around the U.S. and have a chance to talk directly with the states, cities and organizations currently working on BPS.

Continuing Education:

Continuing education options are provided for members of the American Institute of Architects (AIA) and International Code Council (ICC). The DOE Building Energy Codes Program is an AIA and ICC Continuing Education provider, with credits available for most conference sessions. RESNET CEUs will be offered also. A link to request AIA credit or a certificate to self-report to ICC or RESNET will be provided during the conference.

2021 National Energy Codes Conference Line-up

THANK YOU to our leads, moderators, and speakers!

TOPIC	SESSION LEAD	MODERATORS / SPEAKERS
Emerging State & Local Goals: From Zero Energy to Electrification to Decarbonization	Alison Lindburg, MEEA	Steven Nadel, ACEEE Alison Lindburg, MEEA David Goldstein, NRDC Maddie Koewler, NASEO
All for Nothing: Energy Codes, Above-Code Programs and Zero Energy	Jeremy Williams, U.S. DOE Rose Bartlett, PNNL	David Nemetzow, U.S. DOE Terrence Mosley, U.S. DOE Joe Nebbia, Newport Partners LLC Dean Gamble, U.S. EPA Gene Myers, Thrive Home Builders Scott Sanders, BrightLeaf Homes
Workforce Development: Opportunities for Building Codes and Compliance Programs	Carolyn Sarno Goldthwaite, NEEP Ian Blanding, PNNL	Carolyn Sarno Goldthwaite, NEEP Heather B. Whitaker, Adams County, Colorado Nicole Westfall, MEEA Larry Zarker, Building Performance Institute, Inc.
The Role of Building Codes in Shaping Equity and Environmental Justice	Ian Blanding, PNNL Michael Reiner, U.S. DOE	Kathryn Wright, USDN Maggie Kelley Riggins, SEEA Darren Port, NEEP Lauren Westmoreland, Enterprise Community Partners KC Bleile, Viridiant
Building Performance Standards – The Pathway to Zero-Carbon Buildings	Harry Bergmann, U.S. DOE Michael Reiner, U.S. DOE	Harry Bergmann, U.S. DOE Andrew Winslow, NEEP Amy Boyce, IMT Jenna Tatum, Building Electrification Initiative Paul Mathew, LBNL Jian Zhang, PNNL Bing Liu, PNNL Gina Bocra, NYC Department of Buildings Kim Cheslak, New Buildings Institute Adam Hinge, Sustainable Energy Partnerships Emily Salzberg, WA Department of Commerce