



THE ENERGY EFFICIENCY POTENTIAL
OF THE
2021 INTERNATIONAL ENERGY CONSERVATION CODE

September 17, 2019

WHAT IS THE ENERGY-EFFICIENT CODES COALITION?



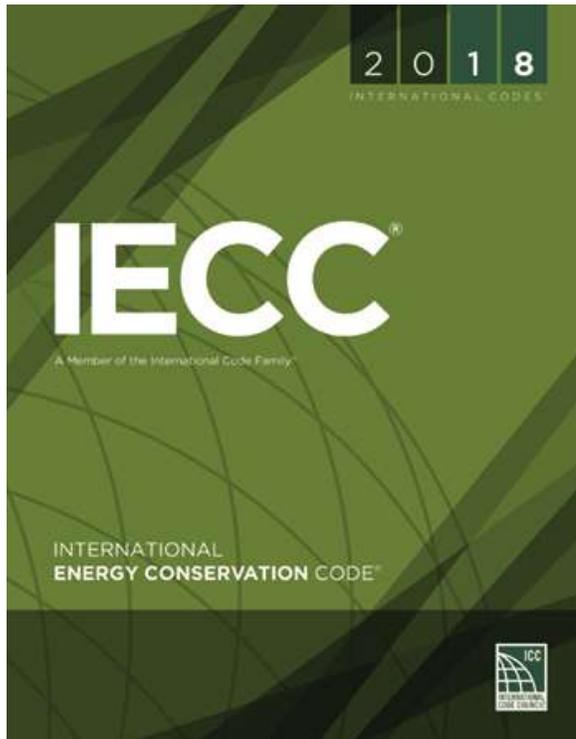
The **Energy-Efficient Codes Coalition** brings together an ever-growing group of building sector advocates and supporters who are committed to improving the energy efficiency of the **International Energy Conservation Code** and setting **America's model building energy code** on a **glide-path to net-zero energy construction**. EECC's supporters include a diversity of businesses, trade associations, energy efficiency organizations, environmental groups, and consumer advocates that understand how homeowners, tenants, businesses, and state and local governments all benefit from steady increases in energy efficiency in the built environment.



**ENERGY-EFFICIENT
CODES COALITION**

EECC was originally established in 2007 by the Alliance to Save Energy.

INTERNATIONAL ENERGY CONSERVATION CODE



International Energy Conservation Code applies to:

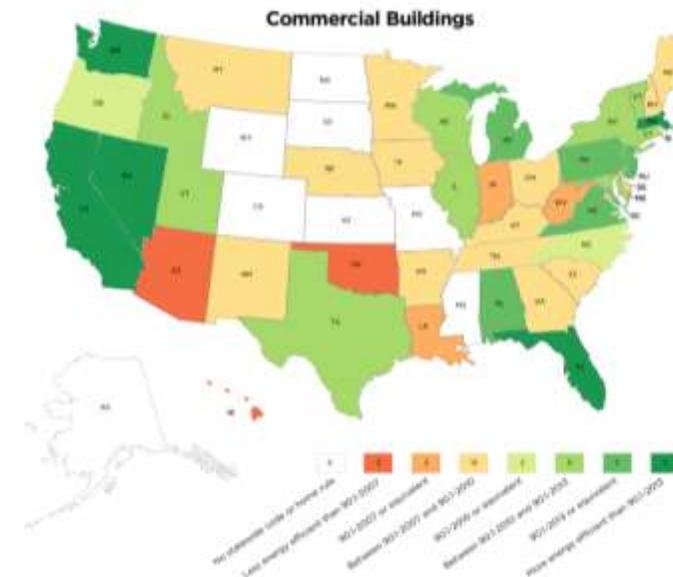
- ✓ New residential and commercial buildings, and
- ✓ Significant remodels or additions

One of 15 building codes

Updated every three years in a national consensus process administered by International Code Council (ICC)



About two-thirds of Americans live in a jurisdiction covered by the 2015 or 2018 IECC. Nine states do not have statewide codes...



...but cities and other jurisdictions often adopt their own codes (e.g., Denver, Phoenix)

IMPORTANCE OF THE 2021 IECC



Building Sector Energy Consumption

- About **40%** of all U.S. energy
- More than **70%** of all U.S. electricity
- Accounts for about **40%** of carbon emissions



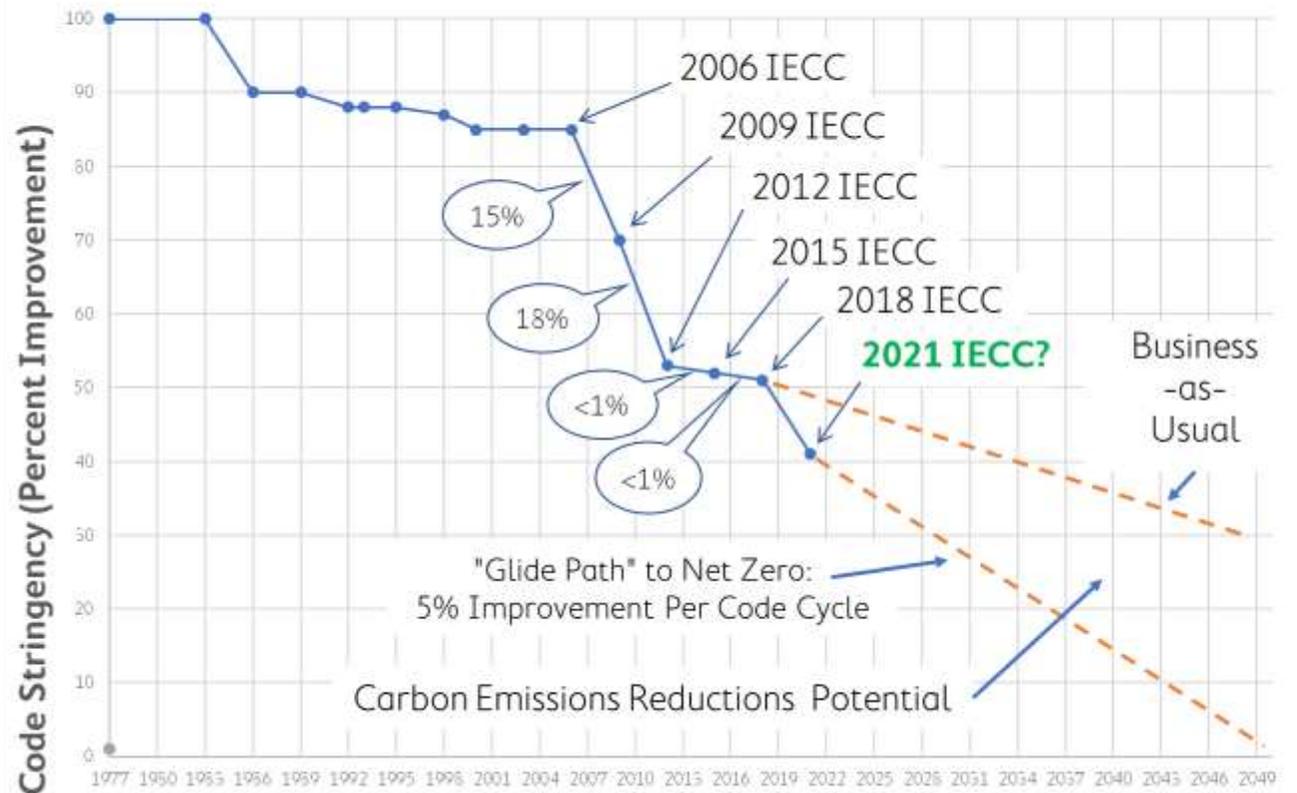
Building Energy Codes Program

Model Building Energy Codes

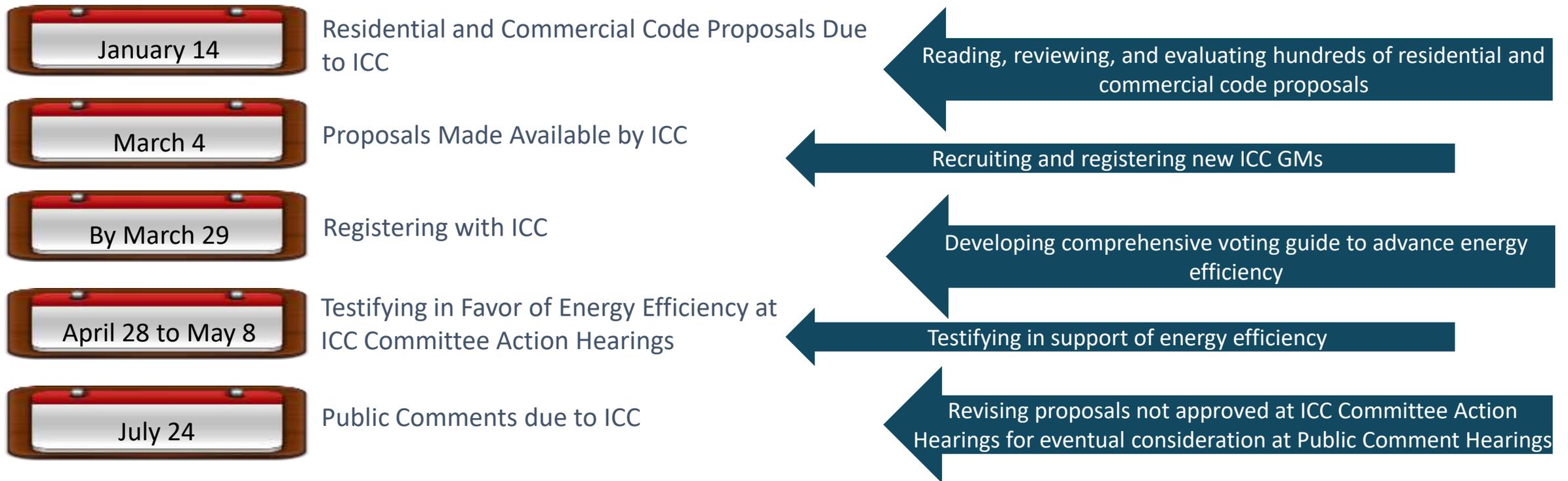
- Cumulative savings from 2010 to 2040:
- **\$126 billion** energy cost savings
- **841 MMT** avoided carbon emissions
- **12.82 quads** primary energy savings



Efficiency Improvements of IECC: Historic and Projected



2021 IECC DEVELOPMENT PROCESS—STEPS SO FAR



2021 IECC PROPOSALS—HIGHLIGHTS FROM ALBUQUERQUE

Residential Proposals

- ✓ Fenestration
- ✓ Lighting and Controls
- ✓ Duct Leakage Testing and Backstop
- ✓ Floors and Walls
- ✓ Mechanical Ventilation

...Plus:



Commercial Proposals

- ✓ Fenestration
- ✓ Opaque Envelope
- ✓ Air Leakage Testing and Verification
- ✓ Controlled Receptacles
- ✓ Lighting
- ✓ EV-ready Circuitry and EV-capable Wiring
- ✓ Points Options
- ✓ Net-zero Energy “Stretch Codes” Appendix

EMISSIONS REDUCTION POTENTIAL AT STAKE

The Bottom Line:

EECC-sponsored Proposals:	35 MMT CO ₂
<u>EECC-endorsed Proposals</u>	<u>+ 15 MMT CO₂</u>
<u>Total Potential Carbon Emissions Reductions</u>	<u>= 50</u>
<u>MMT CO₂</u>	

2021 IECC DEVELOPMENT PROCESS—WHAT COMES NEXT

September 23

Assigning Governmental Member Voting Representatives

Supporting ICC Governmental Member exercises to name Voting Representatives who will cast in-person or online votes

October 23 to 30

Testifying in Favor of Energy Efficiency Proposals at ICC Public Committee Hearings

Developing comprehensive voting guide to advance energy efficiency

Testifying in support of energy efficiency

Late November

Voting Online for Energy Efficiency Proposal

Educating and cultivating supporters among nationwide network of ICC voters

2021 IECC DEVELOPMENT PROCESS—HOW YOU CAN HELP

September 23

Assigning Governmental Member Voting Representatives



Encouraging ICC GMs to name their full roster of Voting Representatives to maximize their ability to increase energy efficiency in the 20210 IECC

October 23 to 30

Testifying in Favor of Energy Efficiency Proposals at ICC Public Committee Hearings



Attending and testifying at the ICC Public Comment Hearings in Las Vegas

Late November

Voting Online for Energy Efficiency Proposal



Reminding code officials and other ICC voters—early and often—to cast votes aligned with the EECC voting guide

EECC ONLINE RESOURCES

Visit EECC Online at energyefficientcodes.org for Everything You Need to Know...

- ✓ Codes-Carbon Calculator for estimating jurisdiction emissions reductions from IECC updates
- ✓ News and blog posts from EECC, NBI, and other energy efficiency allies
- ✓ IECC development process fact sheets
- ✓ Newsletters and sign-up form

...and Everything You Need to Vote

- ✓ Deadlines and registration links
- ✓ **Official EECC voting guide**
 - Top-priority recommendations
 - Best proposals and key rollbacks to defeat
 - Available soon at energyefficientcodes.org!



THANK YOU!

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