

# 2022

National Energy Codes Conference

## How Energy Codes Help Communities Improve Resilience



**Building Energy Codes**

U.S. DEPARTMENT OF ENERGY

# Today's Speakers

Joseph Sollod, ICC



Heather Rosenberg,  
ARUP



John Ingargiola, FEMA



# Polling Questions



**Building Energy Codes**

U.S. DEPARTMENT OF ENERGY



# International Code Council Perspectives on Building Energy Codes and Resilience

Joseph W. Sollod, M.S., Innovation Associate

# Governments Have Committed

**USDN** | urban sustainability  
directors network



**2030**  
DISTRICTS®



**EcoDistricts**

Pledge, Compact, Commitment, or Initiative	Number of Participating US Local Governments
Climate Mayors	407
We are Still In	307
Ready for 100	148
Under2MOU	26
Bloomberg American Cities Climate Challenge	25
Rockefeller 100 Resilient Cities	24
2030 Districts	21
DOE Zero Energy Schools Accelerator	14
DOE Energy Accelerator	11
DOE Zero Energy Districts Accelerator	4

ACCEPTANCE ON BEHALF OF THE UNITED STATES OF AMERICA

I, Joseph R. Biden Jr., President of the United States of America, having seen and considered the Paris Agreement, done at Paris on December 12, 2015, do hereby accept the said Agreement and every article and clause thereof on behalf of the United States of America.

Done at Washington this 20th day of January, 2021.

JOSEPH R. BIDEN JR.



Governments cannot meet their GHG reduction goals without having **building energy codes that align with those goals.**

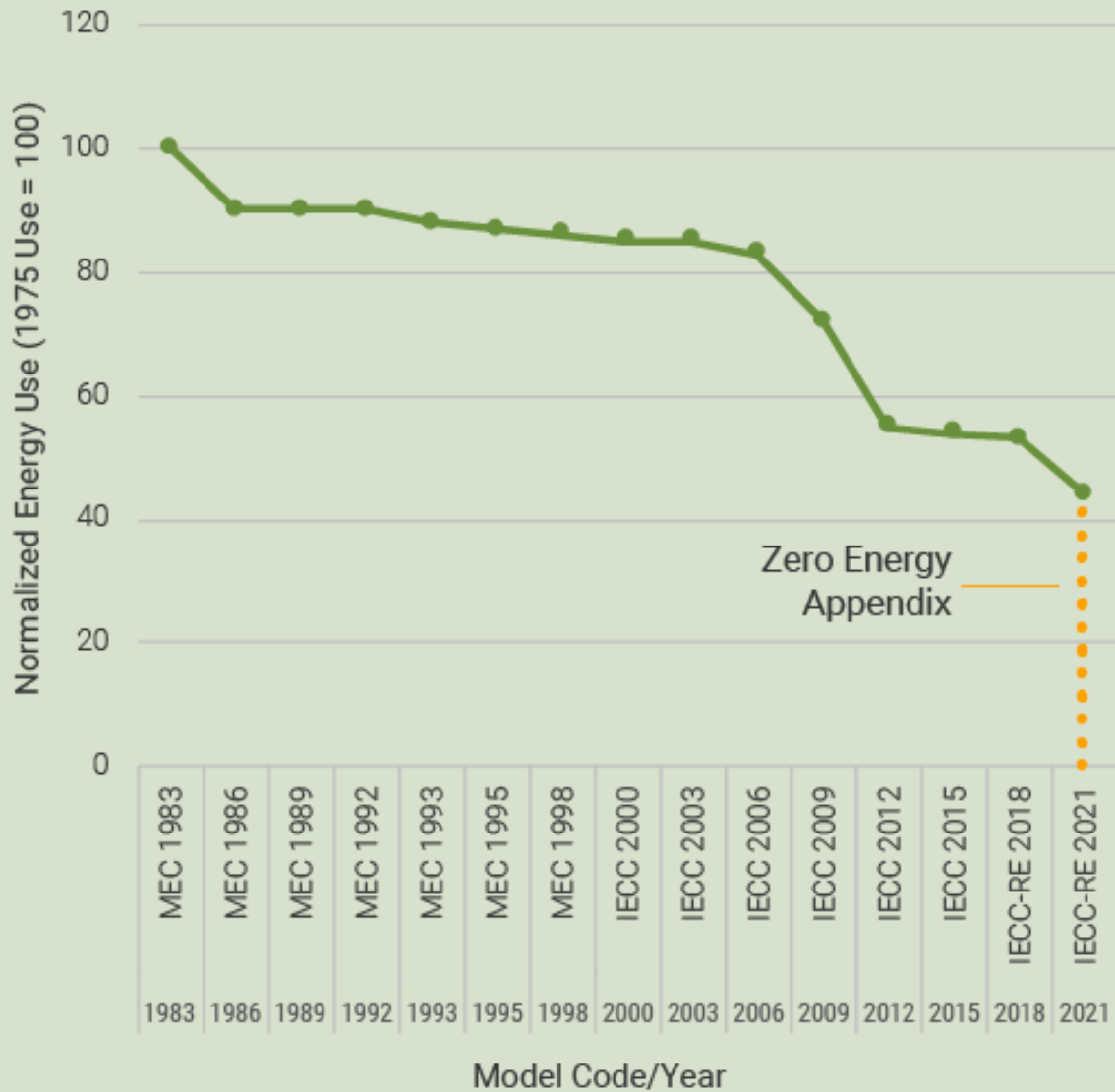


INTERNATIONAL  
CODE  
COUNCIL®



# Improvement in Energy Use for Residential Model Energy Codes (1983–2021)

Courtesy of Pacific Northwest National Laboratory



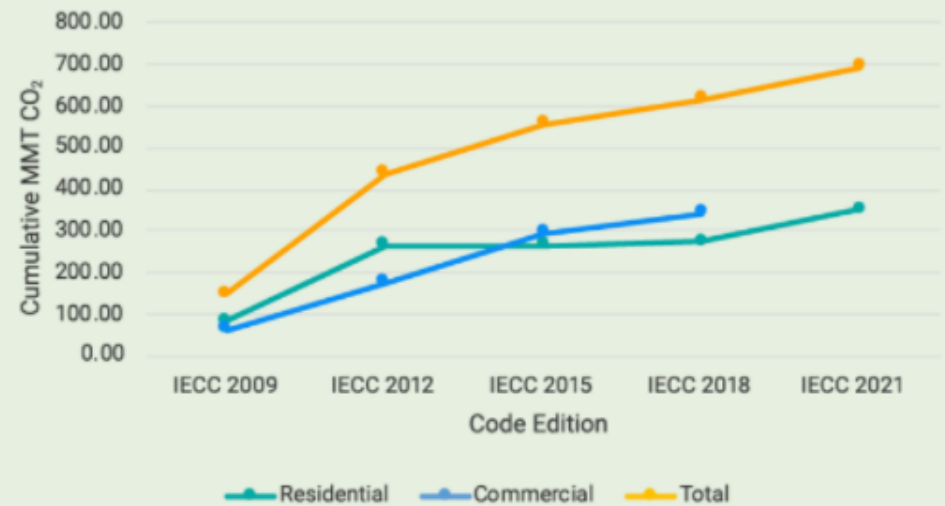
The 2021 edition of the IECC represents an approximately **40 percent improvement** over the 2006 edition.\*

ICC INTERNATIONAL CODE COUNCIL®

2021 IECC Code on a Mission

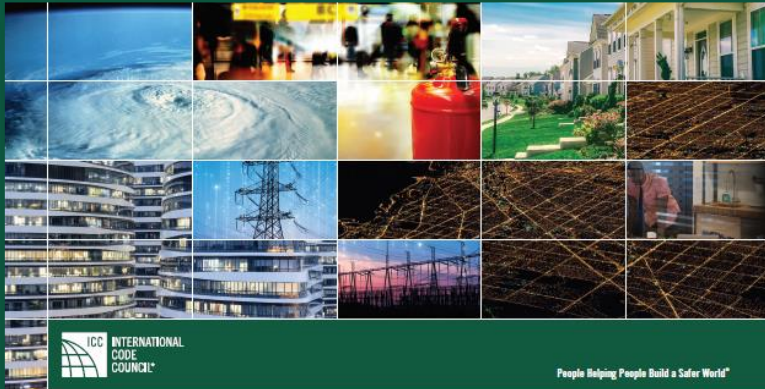
\*U.S. Department of Energy, Residential Determinations (2006-2021)

# Cumulative CO<sub>2</sub> Savings from Each Edition of the IECC (2009-2021)

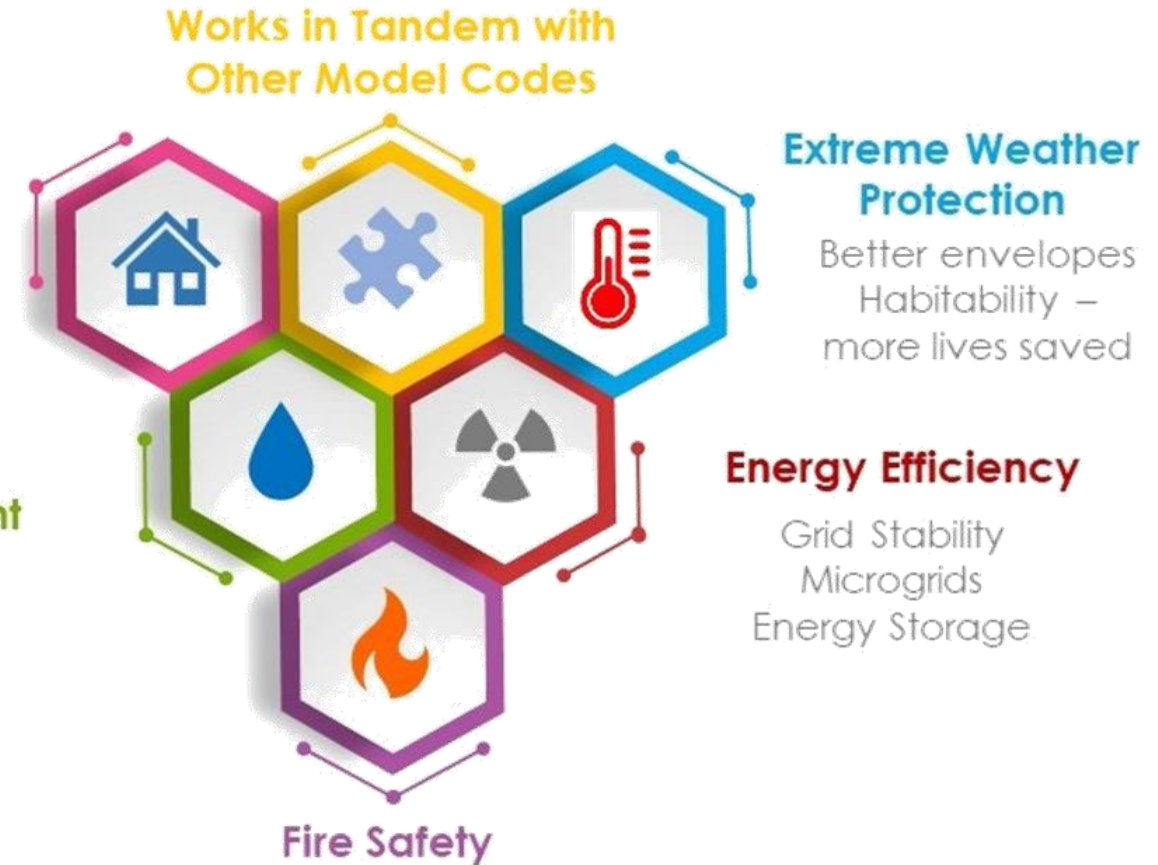




# Energy Codes are a Resilience Strategy



## The Important Role of Energy Codes in Achieving Resilience



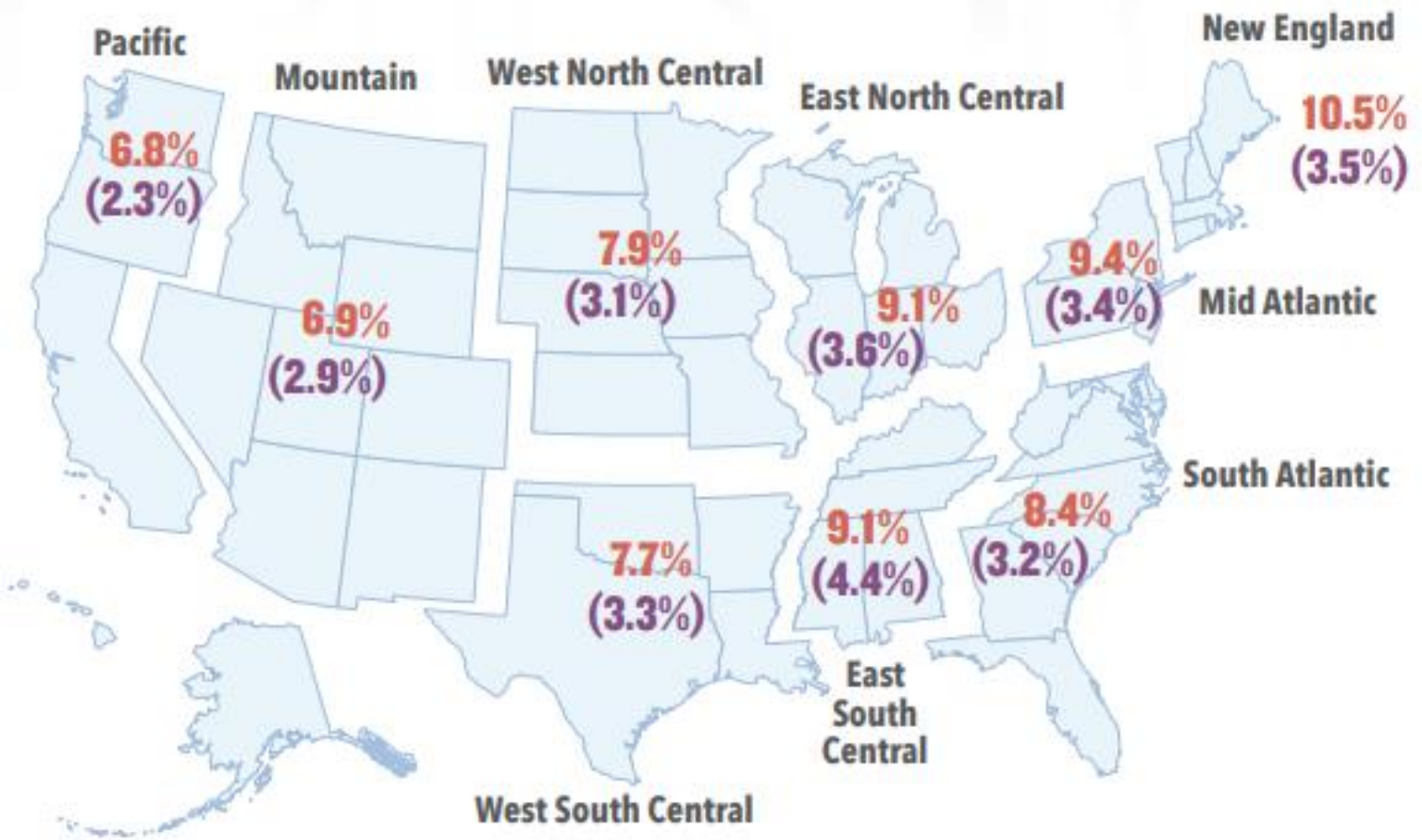
Second in a series

[https://www.iccsafe.org/wp-content/uploads/19-18078 GR ANCR IECC Resilience White Paper BRO Final midres.pdf](https://www.iccsafe.org/wp-content/uploads/19-18078_GR_ANCR_IECC_Resilience_White_Paper_BRO_Final_midres.pdf)

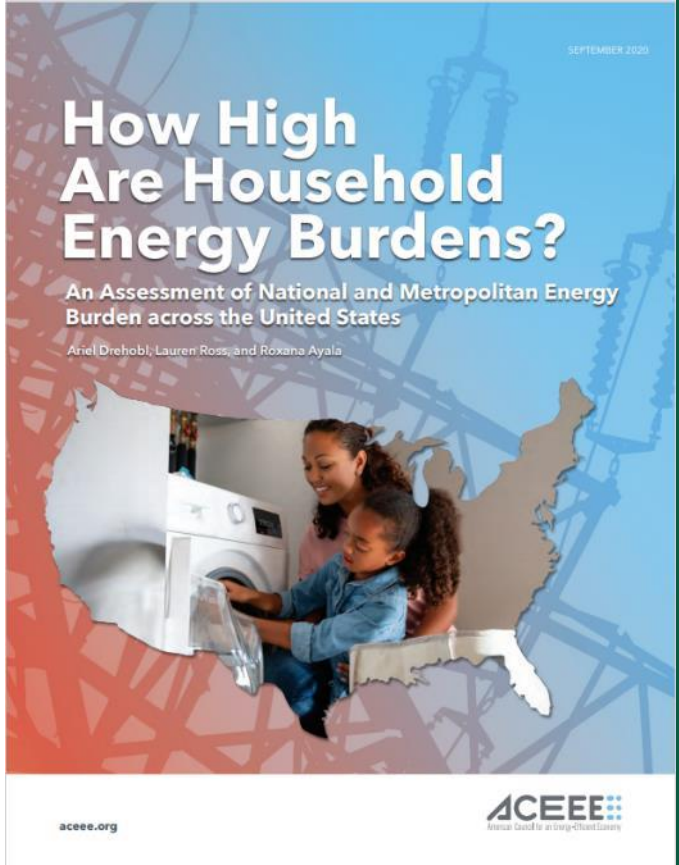


# Energy Burdens & Low-Income Households

FIGURE 3. Median low-income (< 200% FPL) energy burdens by region (red) compared to median energy burdens by region (purple)



- Median low-income energy burden by region
- Median energy burden by region



<https://www.aceee.org/research-report/u2006>

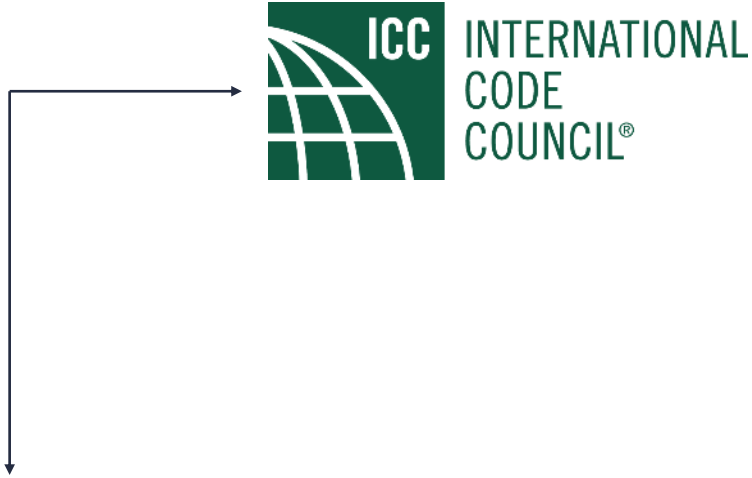
# Supporting Community Resilience



[www.resilientalliance.org](http://www.resilientalliance.org)  
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National & Community  
Resilience®



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