

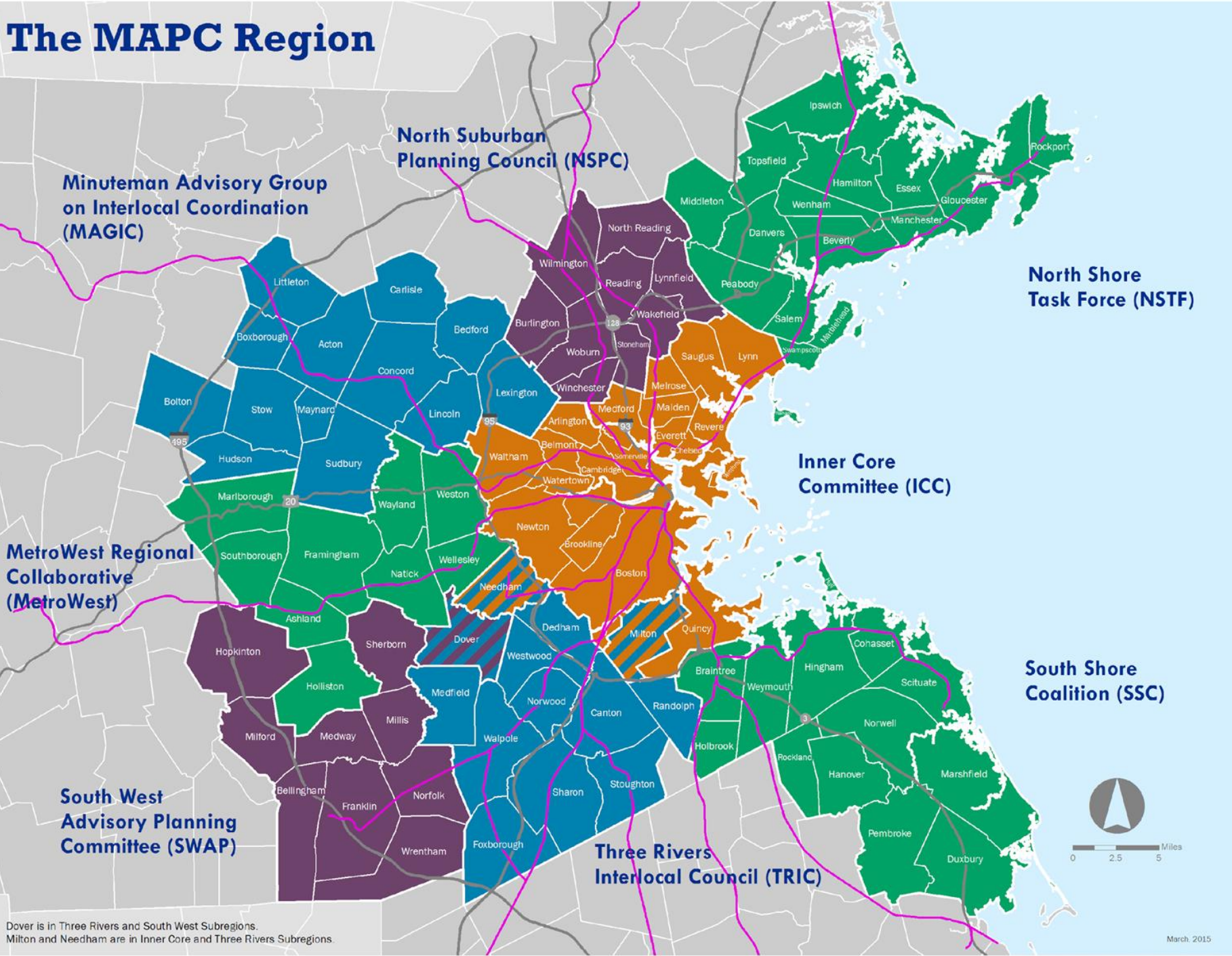


MA Cities and Towns: Improving Codes for Climate

Metropolitan Area Planning Council (MAPC)

December 18, 2018

The MAPC Region



101 municipalities

1,440 square miles

Nearly 3.2 million residents

**1.8 million jobs
(2010 Census)**

CLEAN ENERGY EXPERTISE

1) Regional Energy Projects

- Green Municipal Aggregation
- Municipal and Community Solar
- LED Streetlight Retrofit Program
- Solar Hot Water
- Green Mobility Program
- ESCO Procurement
- Energy Resiliency



2) Climate and Energy Planning

- Community energy and climate data, baselining, planning, and strategizing
- Connecting municipalities with incentives + plug-and-play programs
- Net Zero planning, guidance & education



3) Energy Technical Assistance

- Peak Demand Management
- Green Communities
- Methane Leaks
- Data Analysis
- Solar Permitting and Zoning
- State and Local Policy
- Grant Writing



Net Zero as a Framework for Holistic Climate Planning

Multi-Benefit Outcomes

- **Energy**
- **Economic**
- **Environmental**
- **Public Health**
- **Equity**
- **Livability**

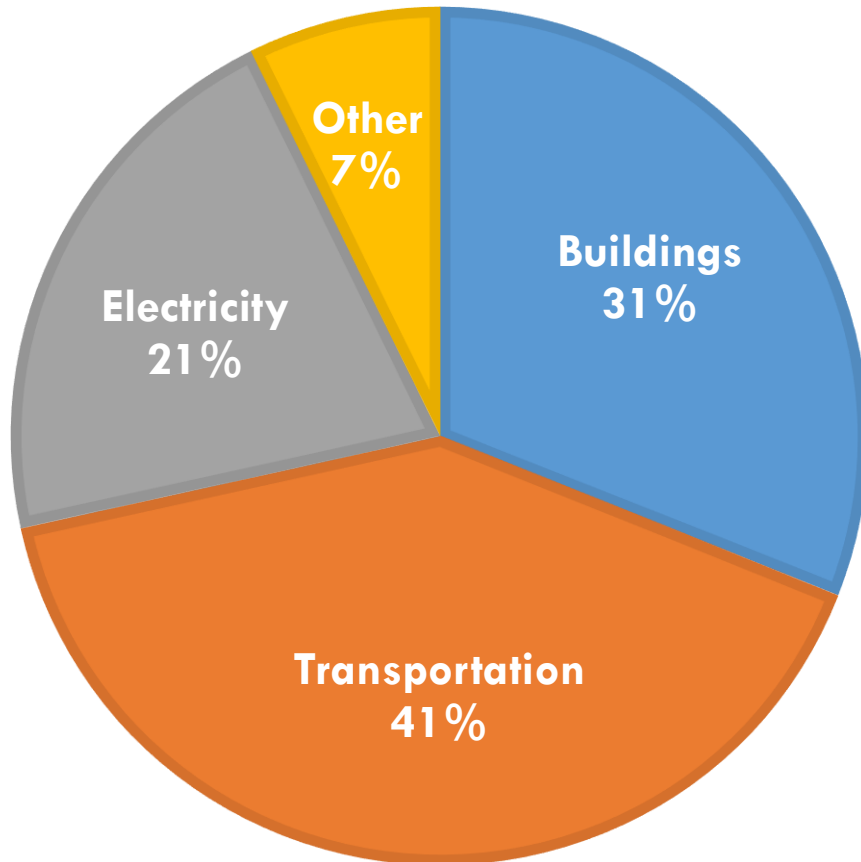


*Bringing Net Zero to 101 Cities and Towns
and Beyond*

Codes for Climate

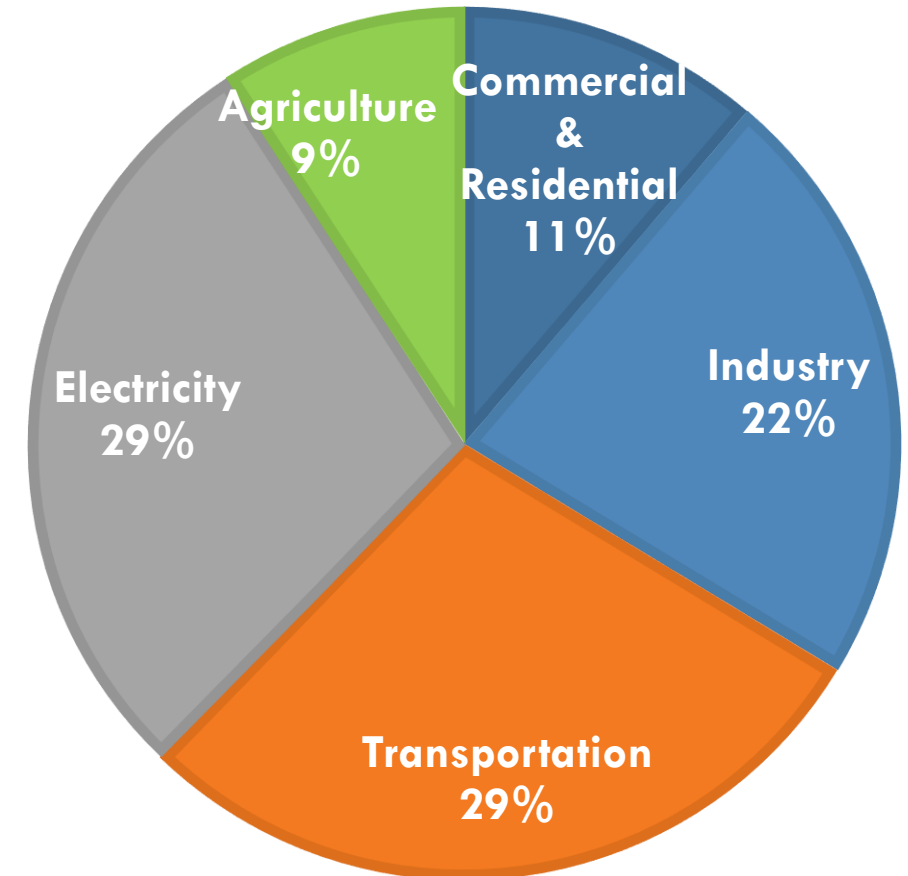
MASSACHUSETTS GHG BY SECTOR

■ Buildings ■ Transportation ■ Electricity ■ Other

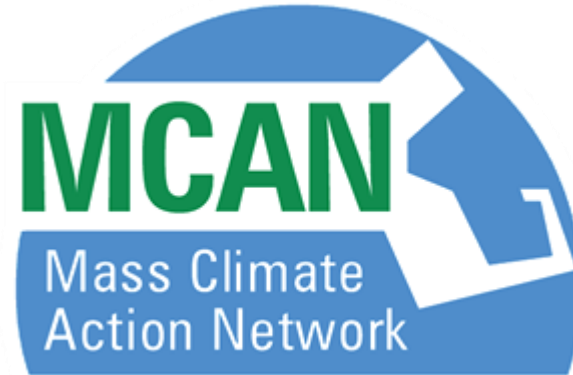


U.S. GHG BY SECTOR

■ Commercial & Residential ■ Industry ■ Transportation ■ Electricity ■ Agriculture



IECC Partners



Energy Efficient Codes Coalition



**SIERRA
CLUB**



Agenda

- 1 Building Code Basics
- 2 The Big Picture: The IECC as Changemaker
- 3 Getting Involved: The IECC and You
- 4 Next Steps
- 5 Q & A

Building Code Basics

What is a Code?

Q: What is code?

**A: “Building codes are sets of regulations that address structural integrity, fire resistance, safe exits, lighting, ventilation, and construction materials. They specify the minimum requirements to safeguard the health, safety, and general welfare of building occupant.”
– FEMA**



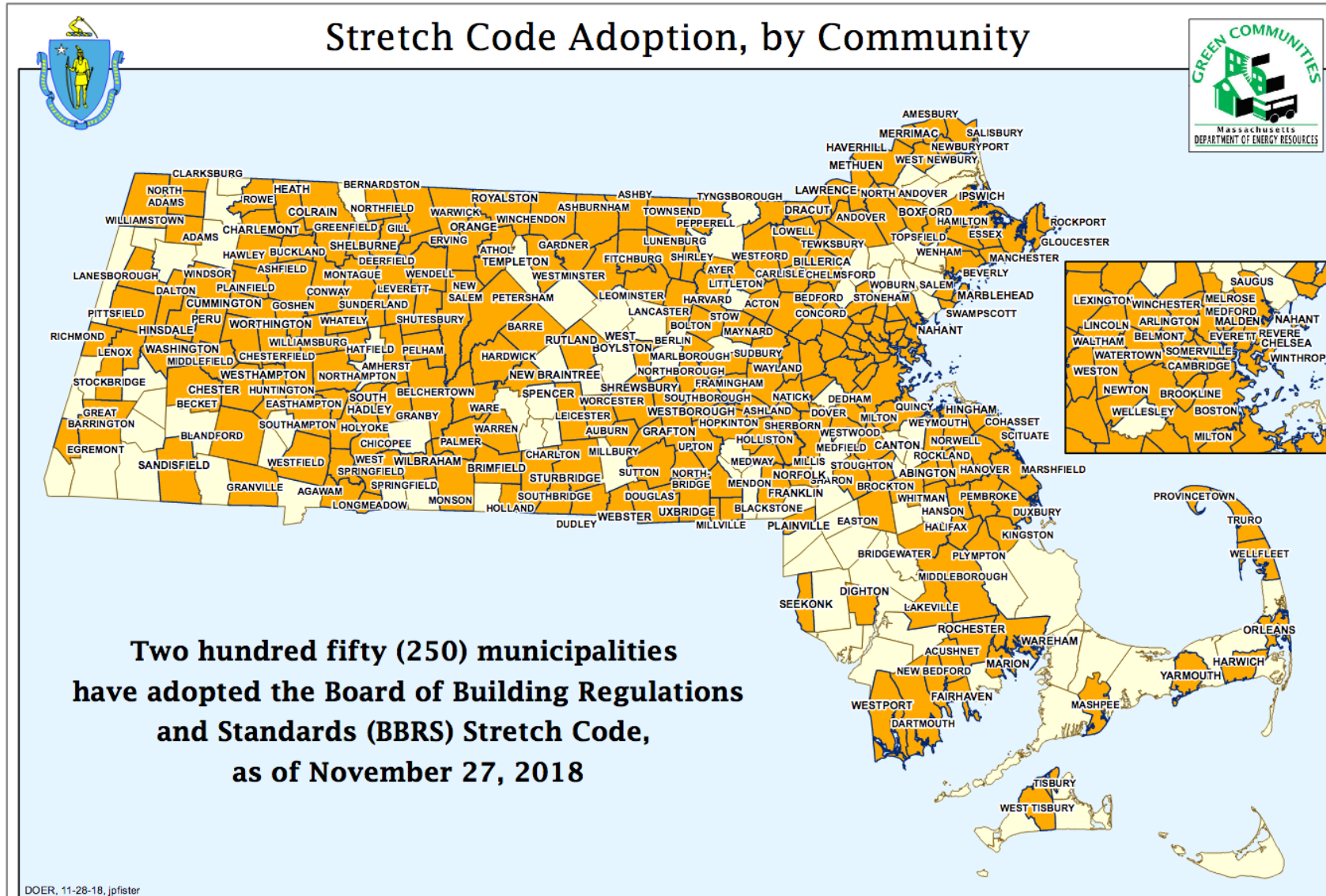
State Building Code

Mass General Law (MGL), Chapter 143, Section 94

“To adopt and fully integrate the latest International Energy Conservation Code as part of the state building code, together with any more stringent energy-efficiency provisions that the board, in consultation with the Department of Energy Resources, concludes are warranted.”



Stretch Energy Code



How Can We Improve Buildings?



There are four main ways that Massachusetts municipalities can impact building regulations:

VOTE

International Energy
Conservation Code
(IECC)

COMMENT

Base Code
(MA Building Code
CMR 780)

Stretch Energy Code
(780 CMR Ch. 15 AA)

ADOPT

Zoning and other
local ordinances

Stretch Energy Code
(780 CMR Ch. 15 AA)

ENFORCE

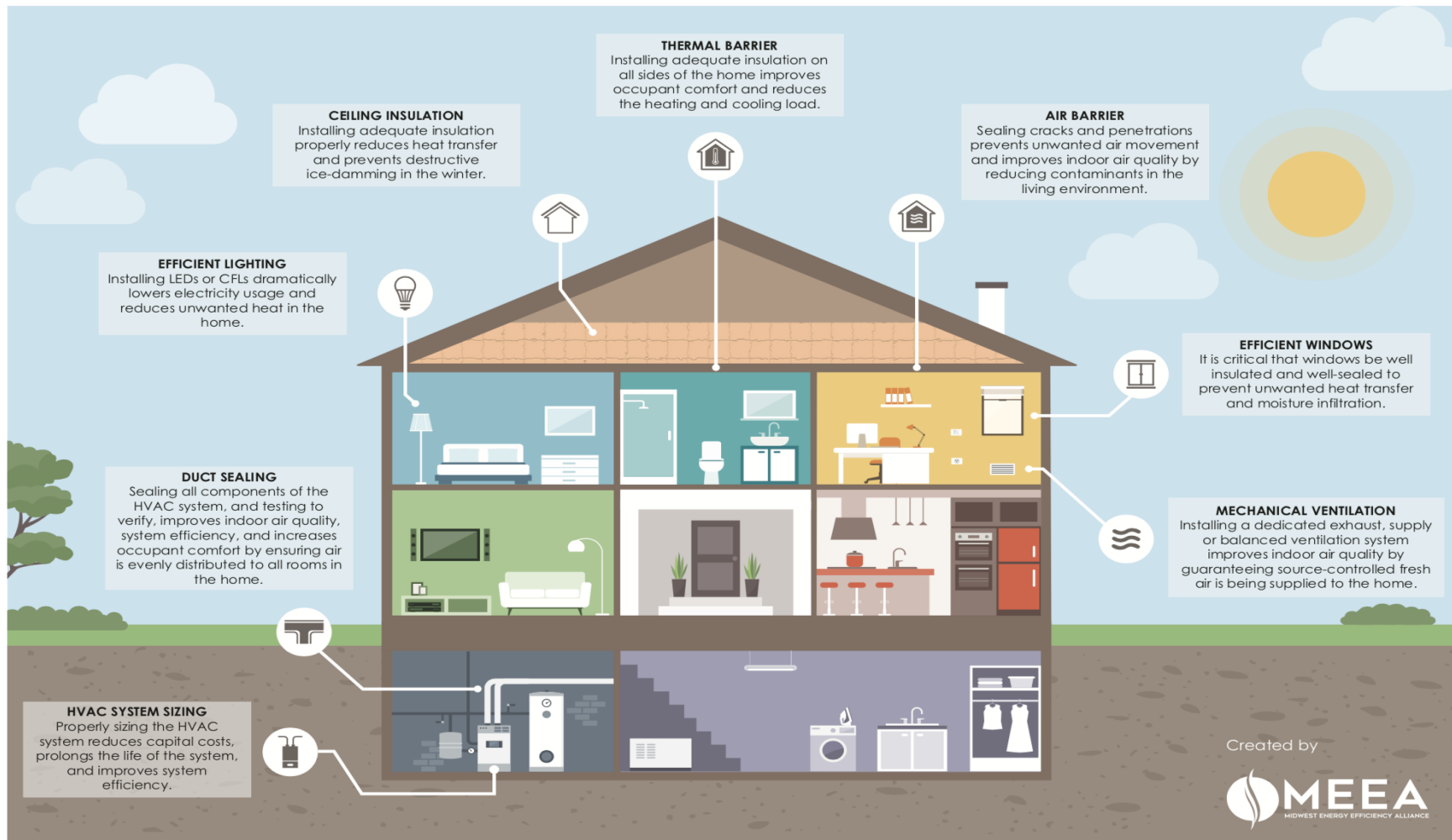
Zoning and other
local ordinances

Base Code
(MA Building Code
CMR 780)

Stretch Energy Code
(780 CMR Ch. 15 AA)

Codes for Climate

How the Energy Code Improves a Home



Big Picture: The IECC as Changemaker

Putting America's Model Energy Code on a Glide Path to Net Zero Buildings



**NATIONAL Building Energy Policy is
Determined by LOCAL Government**



Energy Efficient Codes Coalition

Government

ICLEI

National Association of State Energy Officials

Energy Efficiency Groups

The Alliance to Save Energy

American Council for an Energy Efficient Economy (ACEEE)

United Nations Foundation

Affordable Housing Advocates

Enterprise Community Partners

Global Green USA

LISC – Local Initiatives Support Corp.

National Housing Institute

National Low Income Housing Coalition

Environmental Groups

Natural Resources Defense Council (NRDC)

Center for Environment, Commerce & Energy

Climate Crisis Coalition

Environment America

National Wildlife Federation

Sierra Club

2020 Vision

Labor

Blue Green Alliance

Energy Consumers

Public Citizen

Consumers Federation of America

Academia/Think Tanks

American College and University Presidents

Climate Commitment

Institute for Market Transformation

New Buildings Institute

Regional Energy Alliances

Midwest Energy Efficiency Alliance (MEEA)

Northeast Energy Efficiency Partnerships (NEEP)

Northwest Energy Codes Group

NW Energy Coalition

Southwest Energy Efficiency Project (SWEET)

Southeast Energy Efficiency Alliance (SEEA)

South-central Partnership for Energy Efficiency as a Resource

Business/Insurance

Structural Insulated Panel Association (SIPA)

Polyisocyanurate Insulation Manufacturers Assn (PIMA)

North American Insulation Manufacturers Assn (NAIMA)

Northwest Environmental Business Council

American Chemistry Council

Business Council for Sustainable Energy

Current Energy

Extruded Polystyrene Foam Association (XPSA)

Fireman's Fund

Green Chamber of Commerce

Vinyl Siding Institute (VSI)

Bayer

Utilities

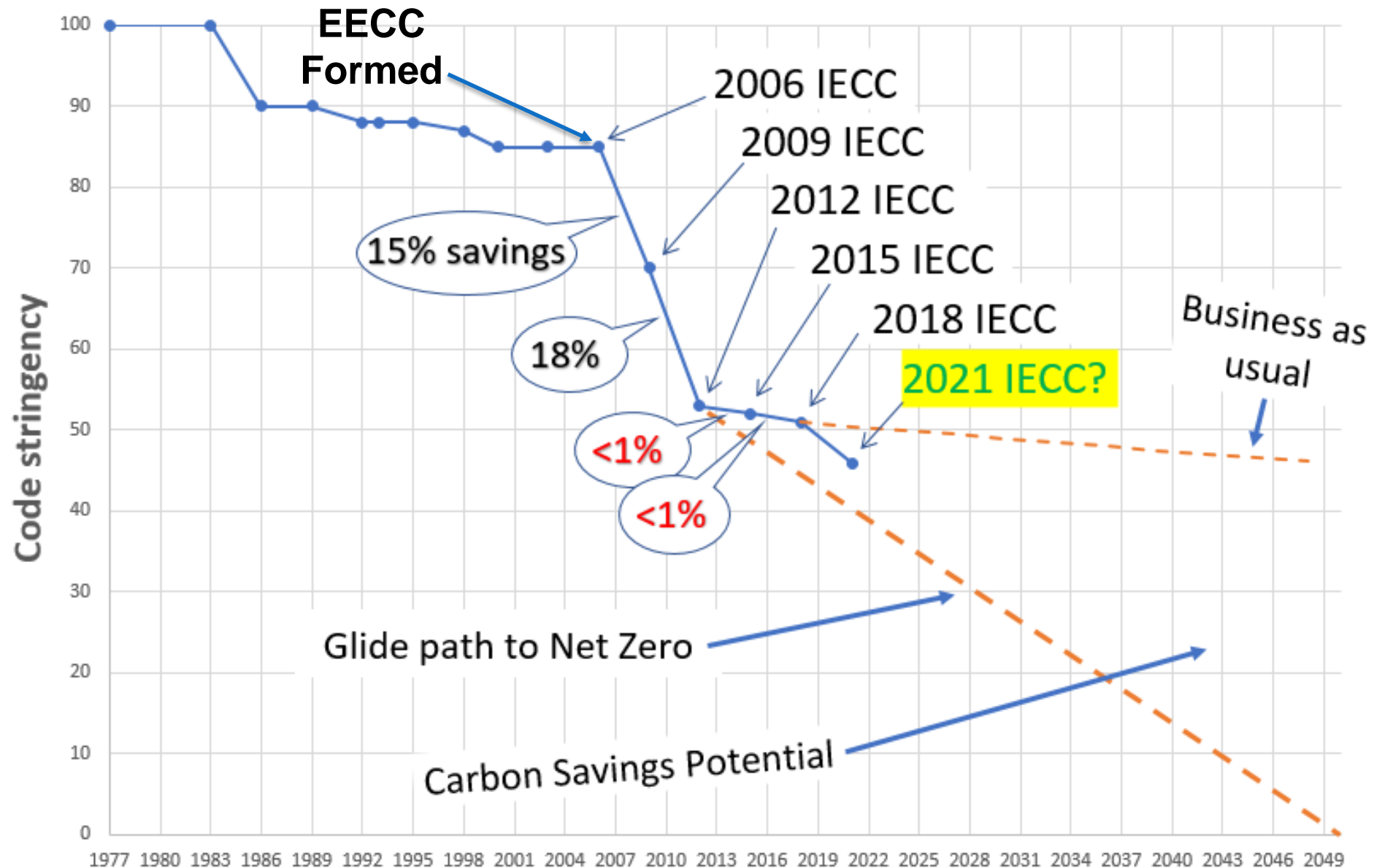
American Public Power Association

Edison Electric Institute

National Rural Electric Cooperative Association



Efficiency Improvements of IECC: Historic and Projected



Mayors Support Glide Path to Zero Energy Buildings

Unanimously Adopt Resolutions in 2008, 2010, 2013, 2016 and 2018 that:

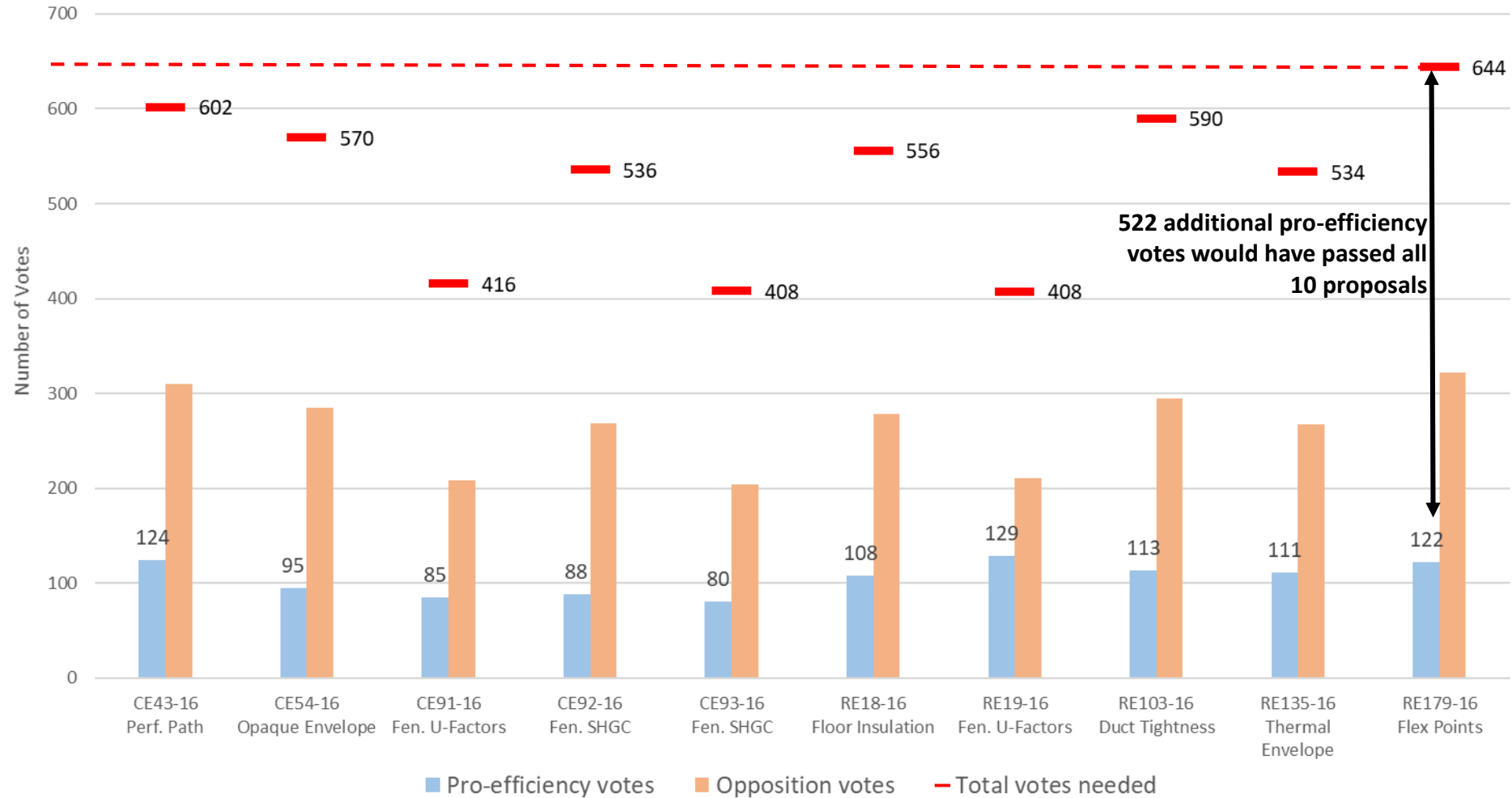
- Encourage Municipal Support for All Eligible Code Officials to Vote Online
- Endorse Endorsed EECC Voting Guide
- Oppose Rollbacks and Trade-Offs that Weaken the Stringency of Gains



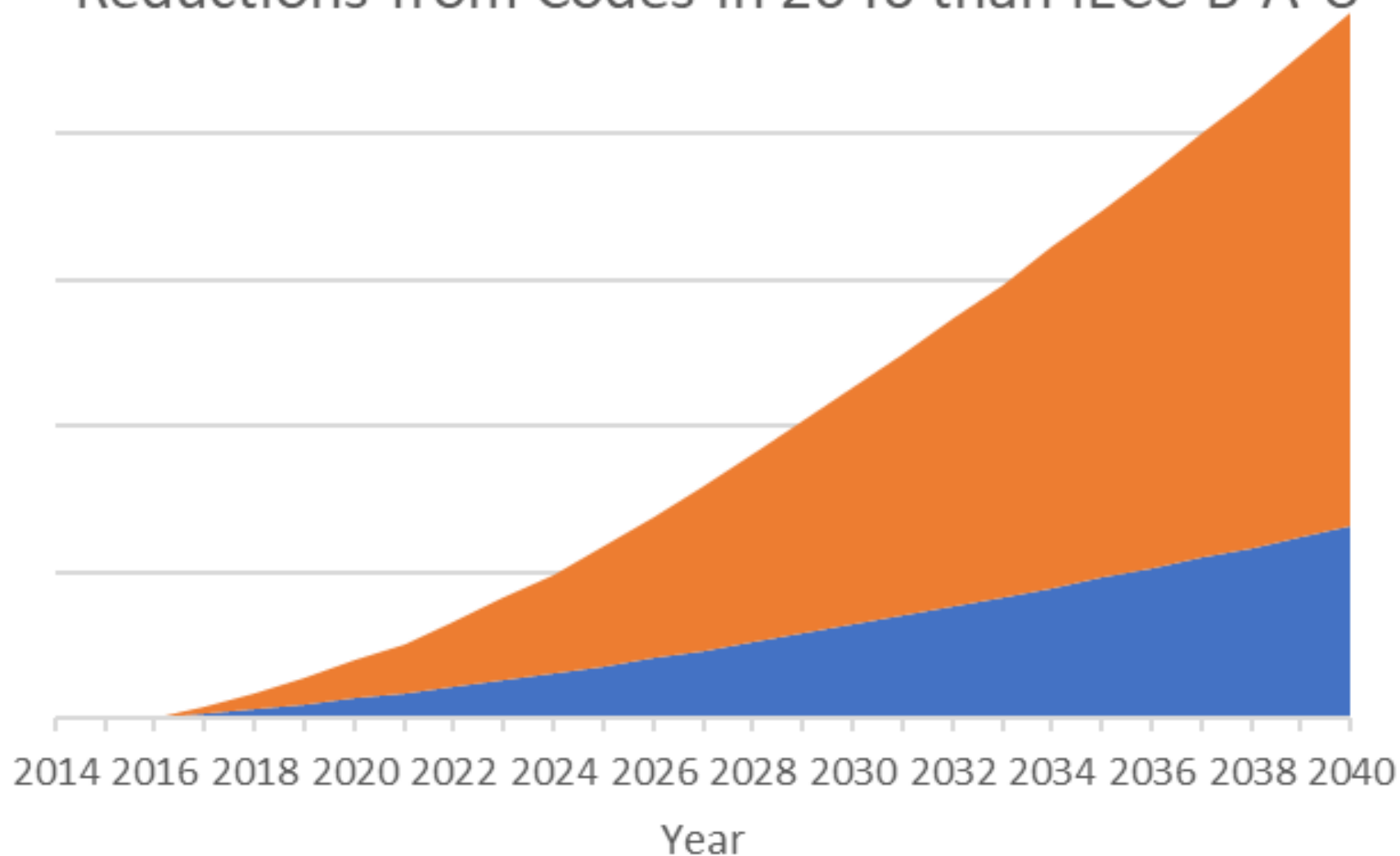
THE UNITED STATES CONFERENCE OF MAYORS

The Voice of America's Mayors in Washington, DC

Vote Totals on 10 Proposals That Would Have Improved the 2018 IECC 10%



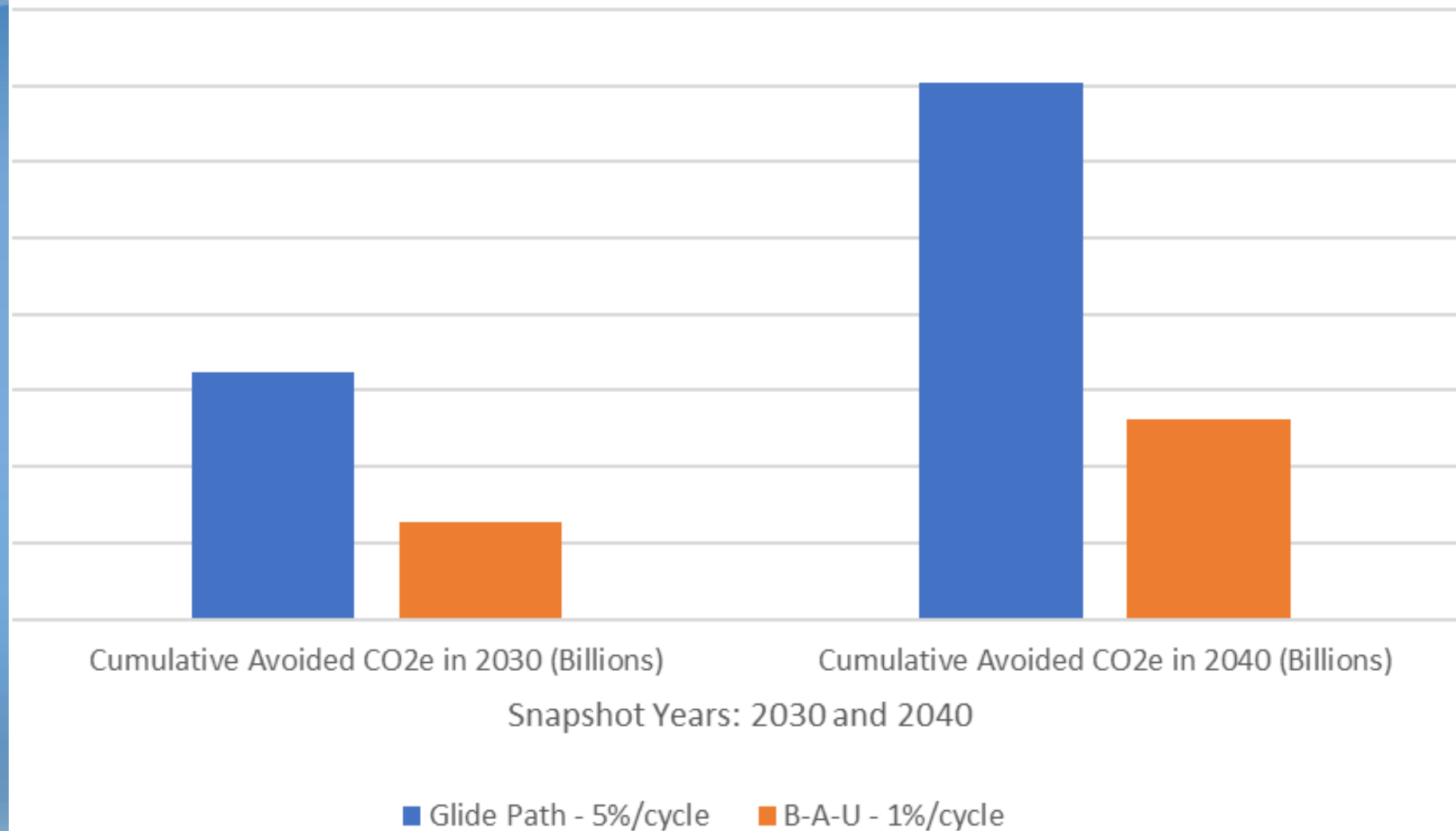
Glide Path Could Produce More Carbon Reductions from Codes in 2040 than IECC B-A-U



■ Business-as-Usual: 1% EE Gains/Cycle

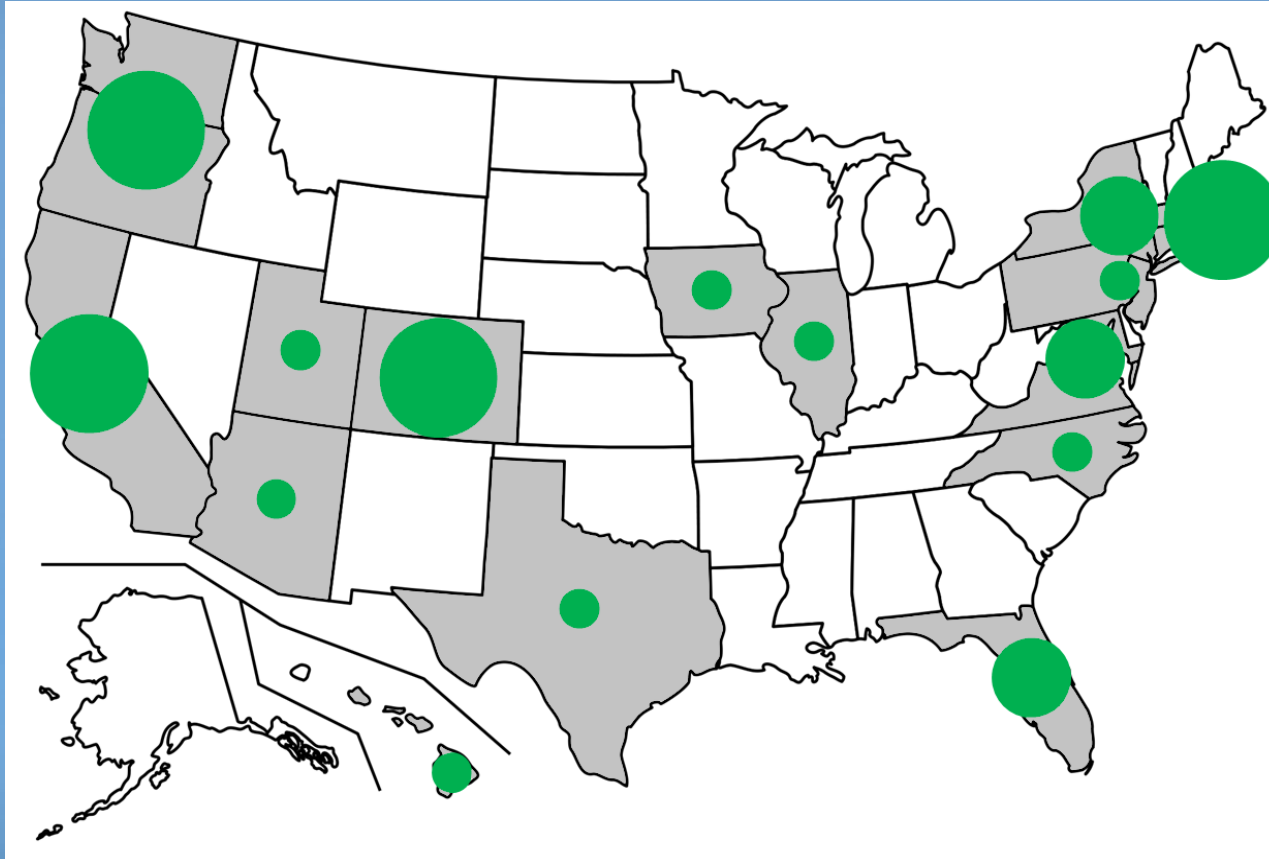
■ Glide Path: 5% EE Gains/Cycle

Residential IECC Cumulative Avoided CO₂e Savings Scenarios



Work Plan Status Update

15 Priority Venues



With Massachusetts Help, We Can Put the 2021 IECC on a Glide Path to Net Zero



BILL FAY

bfay@ase.org

(202) 744-4572 (mobile)



Getting Involved: The IECC and You

2019 IECC Code Cycle



January 1st – March 16th

Registration of
Governmental Members
with ICC



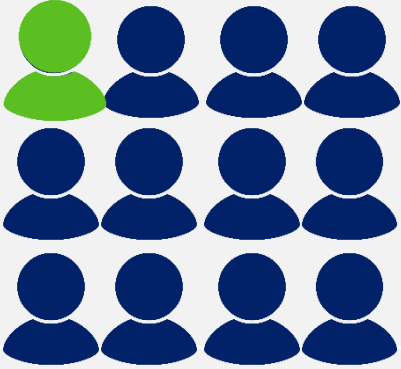
March 16th – September 24th

Voters for each Governmental
Member ID'd by Primary
Representative

November

Voting Guide Released
Two Week Voting Window

Governmental Voting Members

Population	Less than 50,000	50,000 - 150,000	More than 150,000
Voters per Governmental Member			
	4	8	12

Multiple Governmental Members Per Municipality

Planning Department



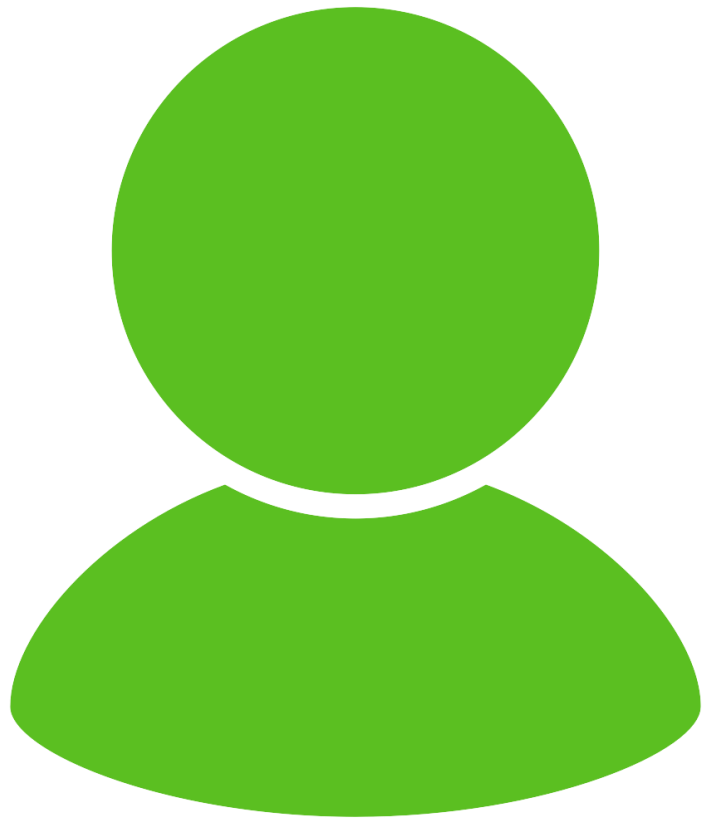
Sustainability Department



Inspectional Services



Primary Voters



- Must register by March 29, 2019
- Determine the eligibility of the other voters in the Governmental Member (municipal department)
- Sign up the other voters within the Governmental Member over the summer (by September 24, 2019)

Voter Eligibility




“Voting Representatives must be **employees or officials** of that Governmental Member and are actively engaged full or part-time in the **administration, formulation or enforcement** of laws, regulations or ordinances relating to **public health, safety and welfare.**”

Membership Fees



Population	Less than 50,000	50,000 -150,000	More than 150,000
Fee per Governmental Member (department)	\$135	\$240	\$370

<https://www.iccsafe.org/membership/membership-renewal/>



Renew/Reinstate Membership

ICC / Overview / Benefits / Fees & Information / Resources / Renewal AAA

Renew Your Membership

Members whose memberships are current can renew their ICC Membership online.

[Renew Now](#)

Reinstate Your Membership

Members whose memberships have been canceled can reinstate their memberships. Please download the application for your specific category. Mail or fax your application as stated on the application.

[Government](#) [Corporate](#) [Individual](#)

Questions? Call toll free 888-ICC-SAFE (888-422-7233), ext. 33804

If you have had an active membership within 5 years, you may purchase a new membership [online](#), but you will not be eligible for a complimentary code book, even if one is chosen.

Next Steps – Get involved!



- Partner with us to engage your municipality
- Stay tuned for more resources and webinars from MAPC and partners on the IECC process
- Identify eligible departments to register as Governmental Members
- Budget for Governmental Member registration fees
- Select Primary voting representatives
- **Before March 29:** Register primary voting representatives
- Reach out to MAPC for any help navigating this process!

Questions?

Contact

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