

How to Vote on the 2021 IECC

MAPC's Codes for Climate Webinar Series and Zero to 101 Initiative

November 13, 2019

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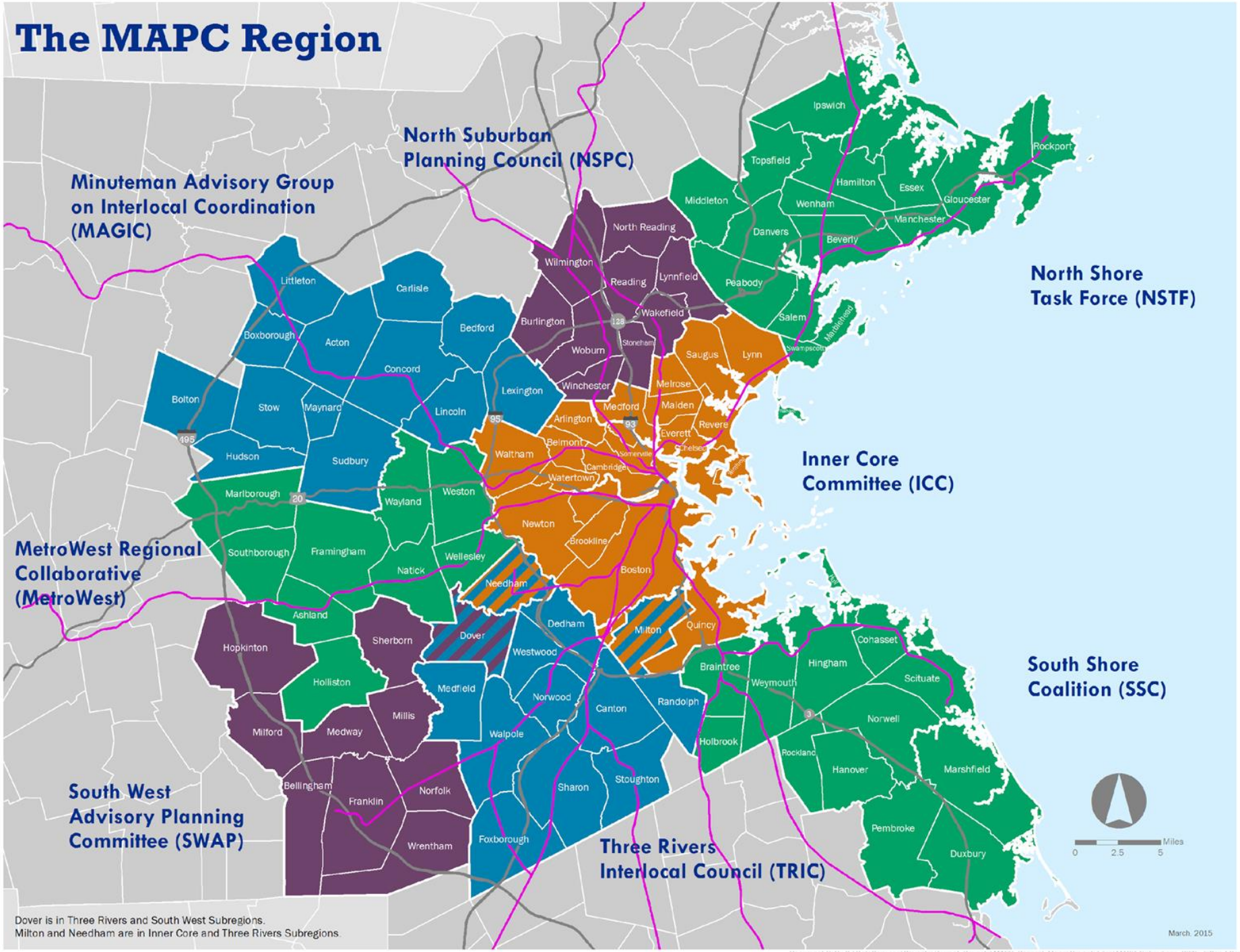
METROPOLITAN AREA PLANNING COUNCIL



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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
- Codes for Climate

Agenda

1. Introduction
2. Update and Next Steps in the IECC Code Cycle
3. How to Vote
4. Exciting Energy Efficiency Code Proposals
5. Q & A

Net Zero as a Framework for Holistic Climate Planning

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Multi-Benefit Outcomes

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

ZERO to 101

Bringing Net Zero to 101 Cities and Towns and Beyond

Codes for Climate

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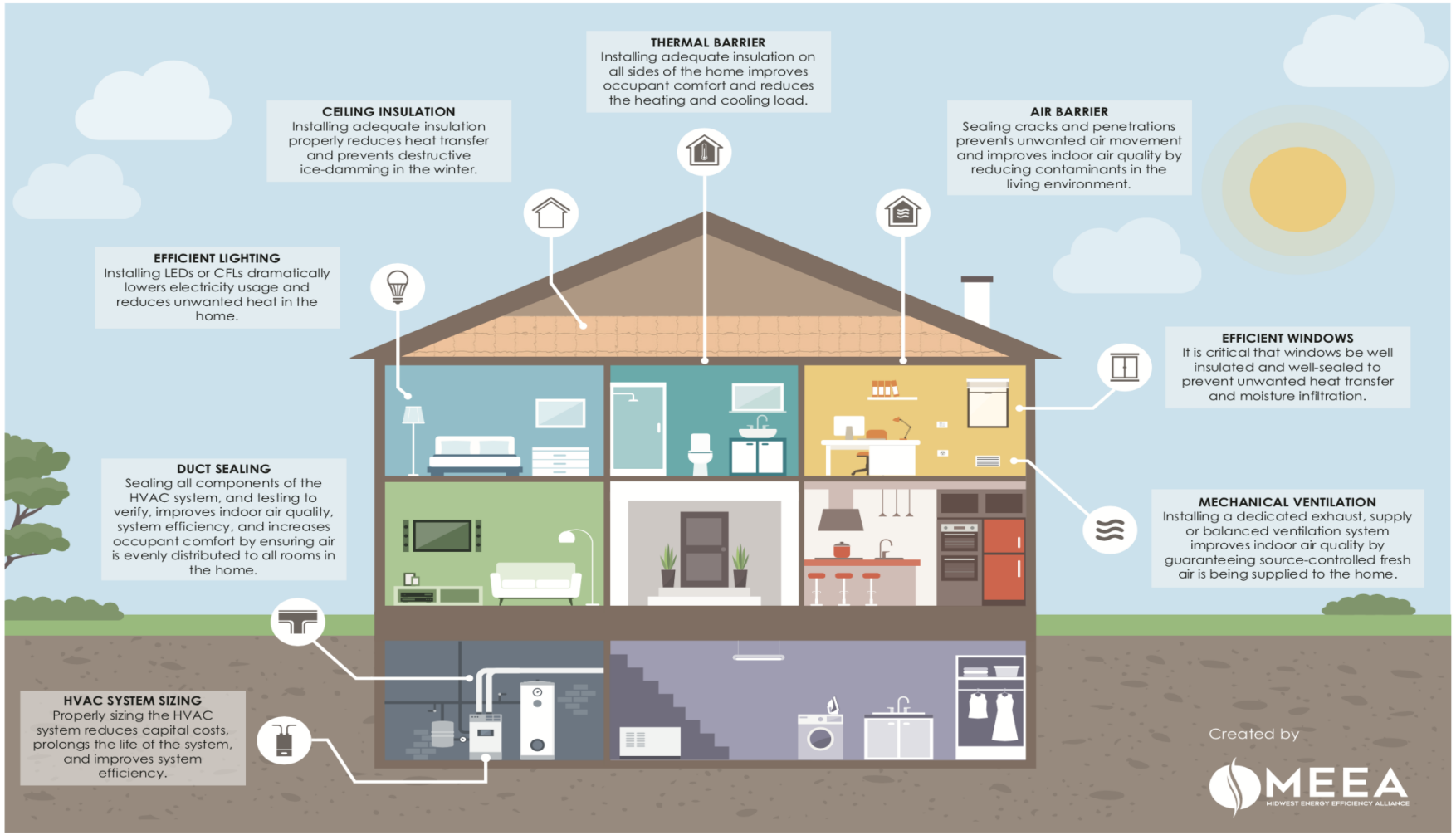
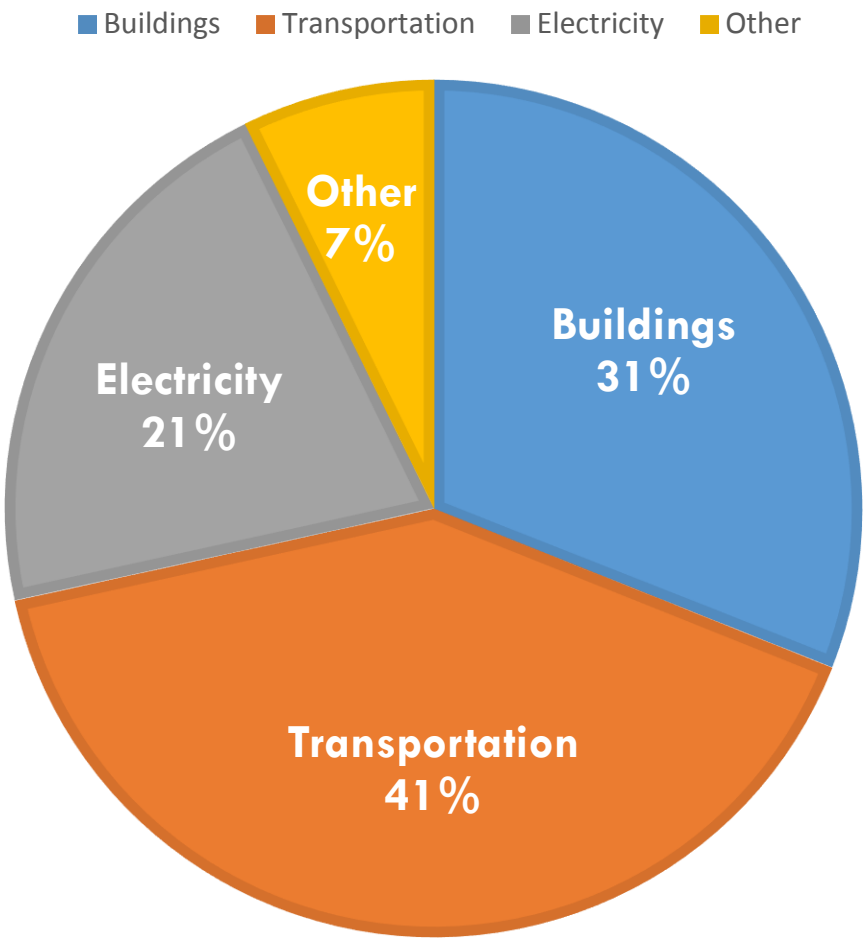
How the Energy Code Improves a Home

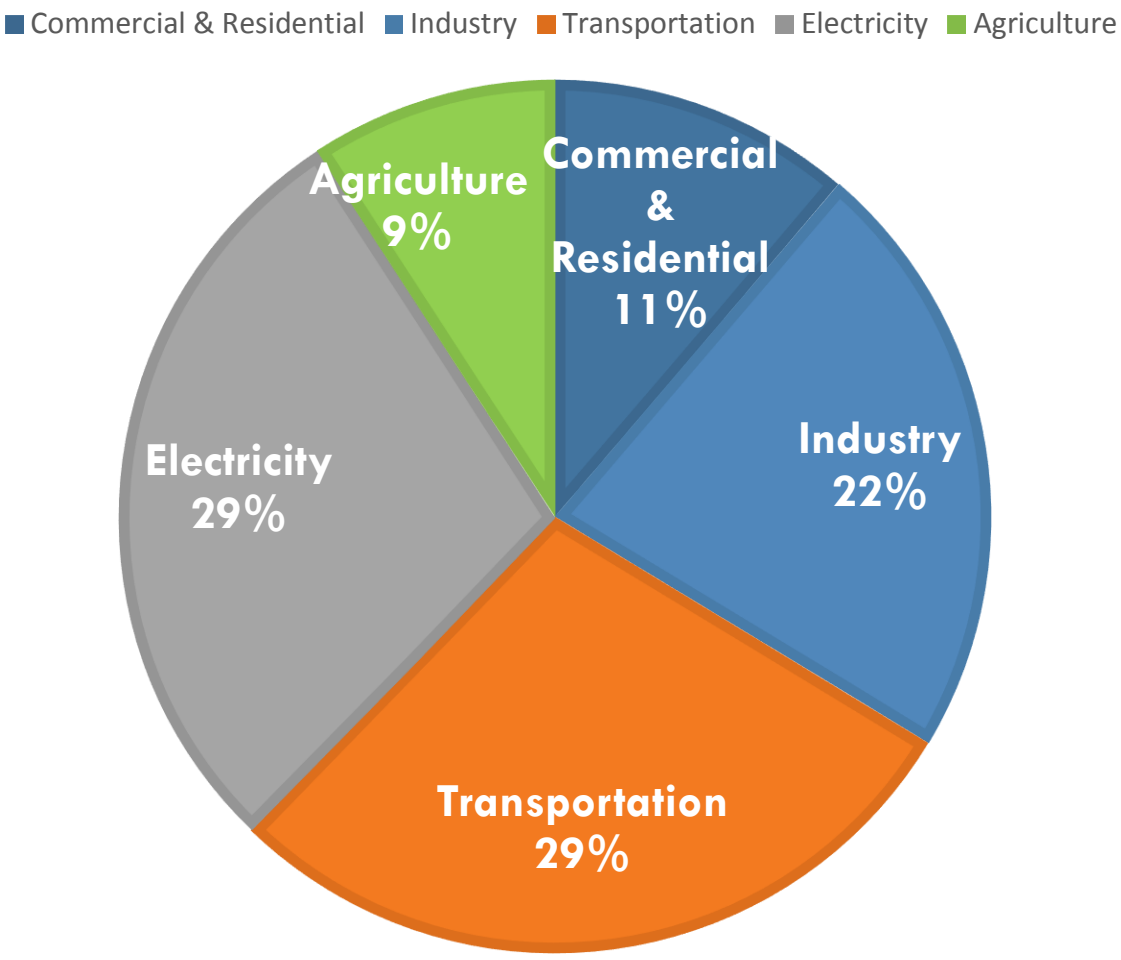


Codes for Climate

MASSACHUSETTS GHG BY SECTOR



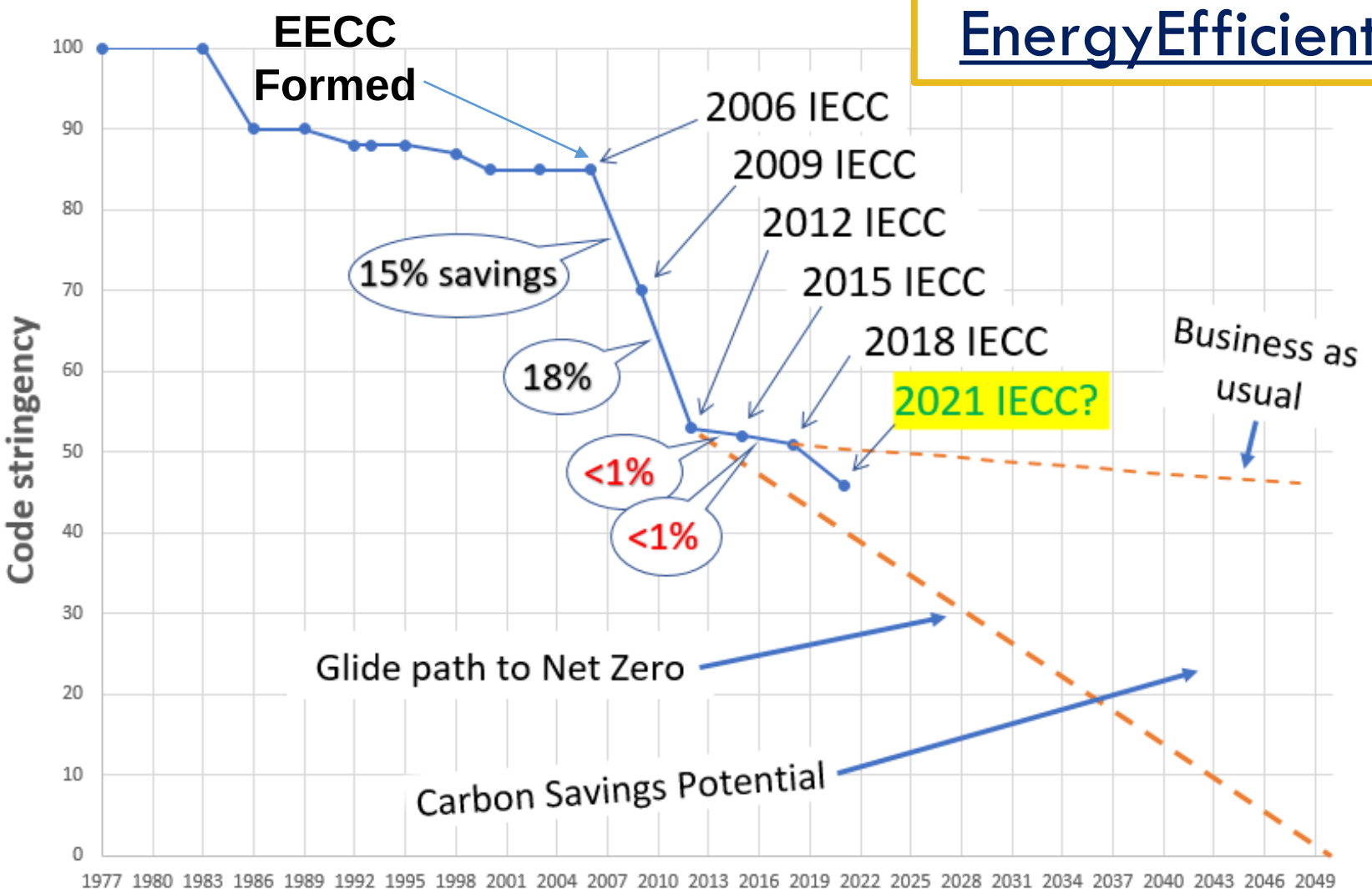
U.S. GHG BY SECTOR



Source: Executive Office of Energy and Environmental Affairs. 2015 Update Massachusetts Clean Energy and Climate Plan for 2020. https://www.mass.gov/files/documents/2017/01/uo/cecp-for-2020.pdf.
Environmental Protection Agency. Sources of Greenhouse Gas Emissions. https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions.

Efficiency Improvements of IECC

EnergyEfficientCodes.com



Next Steps in the IECC Code Cycle

2019 IECC Code Cycle

January 1st – March 29th
Registration of Governmental Members with ICC

March 29th – September 23rd
Voters for each Governmental Member ID'd by Primary Representative

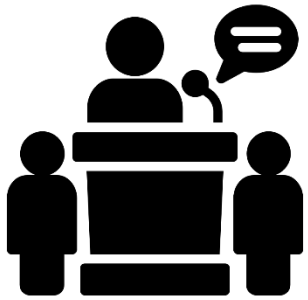
November 18th – December 5th
Voting Guide in advance
3-Week Online Voting Window

IECC Code Proposal Process

Committee Action Hearings

May

ICC Members present code proposals to the code committees



Code Change Submission & Review

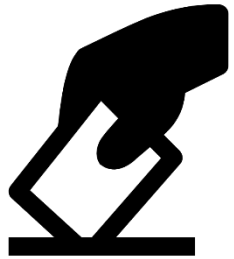
Jun - Aug

Proposers edit and members submit comments on proposals

Public Comment Hearings

Oct 23-30

Members who attend vote in person and finalize code proposals



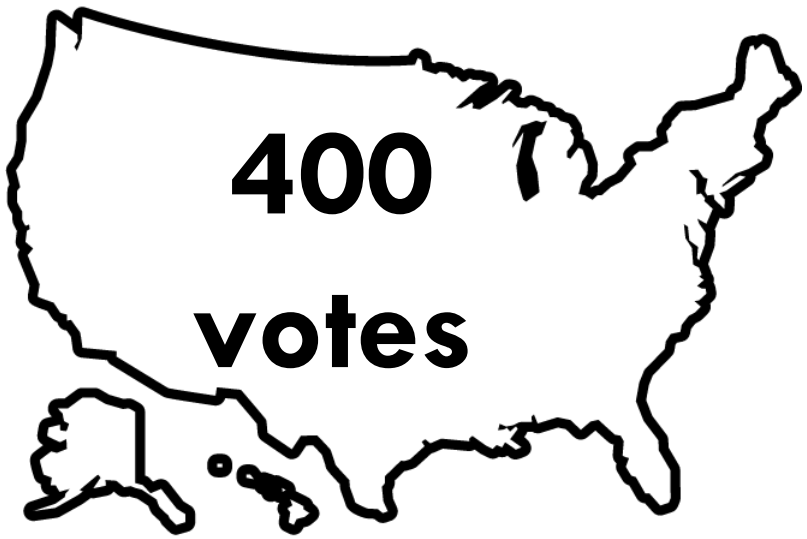
Online Vote

Nov 18 – December 5

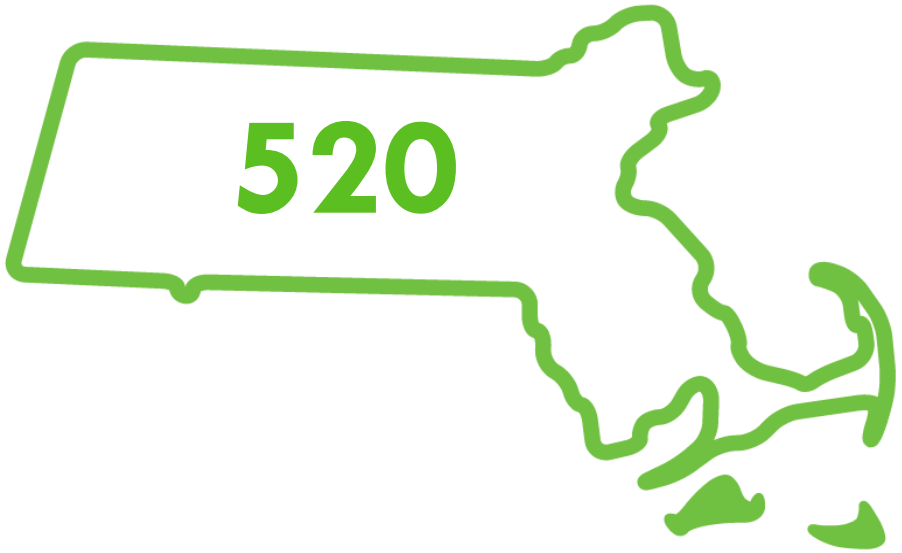
Members vote online

Results of MA Registration Efforts

Target:



Municipal Voters:



IECC Voting Window

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
NOVEMBER	18	19	20	21	22
				Newton Workshop	
	25	26	27	28	29
				Thanksgiving	
DECEMBER	2	3	4	5	

How to Vote on the 2021 IECC

What You Need To Vote

- A **computer** with internet connection
- **40 to 60 minutes** to sit down and vote
- EECC's **voter guide**
- A **username, password and PIN** to CDP Access

ENERGY-EFFICIENT CODES COALITION

Summary of IECC RE (Residential) Proposals and Online Voting Recommendations

Detailed Online Voting Recommendations

Final Post-PCH Version
November 8, 2019

The IECC is the nation's model building energy code and is revised every three years. Online voting by ICC Governmental Member Voting Representatives is the culmination of years of work by numerous stakeholders and determines the content of the next version of the IECC. To vote on these proposals, go to www.cdpaccess.com and vote between 11/18/19 and 12/5/19.

This Guide has been prepared by the EECC to provide a brief outline of the RE Proposals (for residential buildings) and EECC's voting recommendations for ICC Governmental Member Voting Representatives for purposes of the ICC's Online Voting process. We strongly encourage Voting Representatives to vote on all of the proposals listed below if possible. Previous hearings, including the recent Public Comment Hearings, have pared down the proposals for consideration by online voters. This document does not include those proposals that have been resolved through the consent agenda or where EECC offers no voting recommendation (see earlier versions of EECC's guides for info on these proposals) and only includes the voting options available to online voters. For more information, see www.energyefficientcodes.com.

The summaries and recommendations below reflect careful consideration by the EECC Technical Committee and, as such, represent the EECC's views at this time. Included for many of the proposals is a brief analysis and support for EECC's recommendations. This document is not intended as a substitute for reviewing and assessing the actual proposals and public comments as published by ICC, and we encourage a full review. EECC makes no representations or warranties as to this document or its use. **See also EECC's separate summary for CE proposals, which addresses commercial and some additional residential building proposals.**

Prop. #	Cmtee Result	PCH Result	EECC Vote Recommendation	Proposal Summary	EECC Analysis, Support for Recommendation and Notes
RE7	AS	AMPC1	AMPC1	Improves lighting efficacy requirements to 65 lumens/watt for lamps and 45 lumens/watt for luminaires; renames *high-efficacy lamps* as *high-efficacy light sources*; excludes kitchen appliance lighting fixtures.	Substantial energy savings. See also RE145.
RE10	AS	D	D	Adds new definition of *sampling*, a process where <100% of units are randomly inspected and/or tested to code requirements.	By definition, sampling a few homes for compliance does not guarantee that every home complies with the IECC. Sampling results should not be allowed to demonstrate code compliance.
RE20	D	AMPC1	AM PC1	Requires certificate to include the applicable code edition and compliance path selected.	This is useful information for code compliance and future homeowners.
RE21	D	D	AS	Requires certificate to include area-weighted average efficiency values where available, sizes of HVAC equipment, and ERI score (both with and without on-site generation).	Further improves the permanent certificate of energy-related information required to be posted in each home by providing additional useful information for the future use of the homeowner.
RE29	D	D	AS	Increases wall insulation in climate zones 4-5 from R-20 or 13+5 to R-20+5 or 13+10; adjusts equivalent U-factor requirements accordingly.	Reasonably improves the efficiency of wall insulation.

KEY:
PC – Public Comment AS – Approve as Submitted AM – Approve As Modified by Committee AM PC 1 – Approve As Modified by Public Comment 1, etc. D – Disapprove

Voting Tutorial from ICC: https://www.youtube.com/playlist?list=PL9kEmc8-zghr041qNAc7jc6eRV120ENYx

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8 minus three | Answer the math challenge

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Trusted Source for Codes & Standards

Our model building codes and standards provide the highest level of safety in the world.

certification, codification,

resources.

Annual Conference

Join us in Las Vegas for the Code Council's 2019 Annual Conference, Code Hearings & Expo, October 20 – 30. Register now and save.

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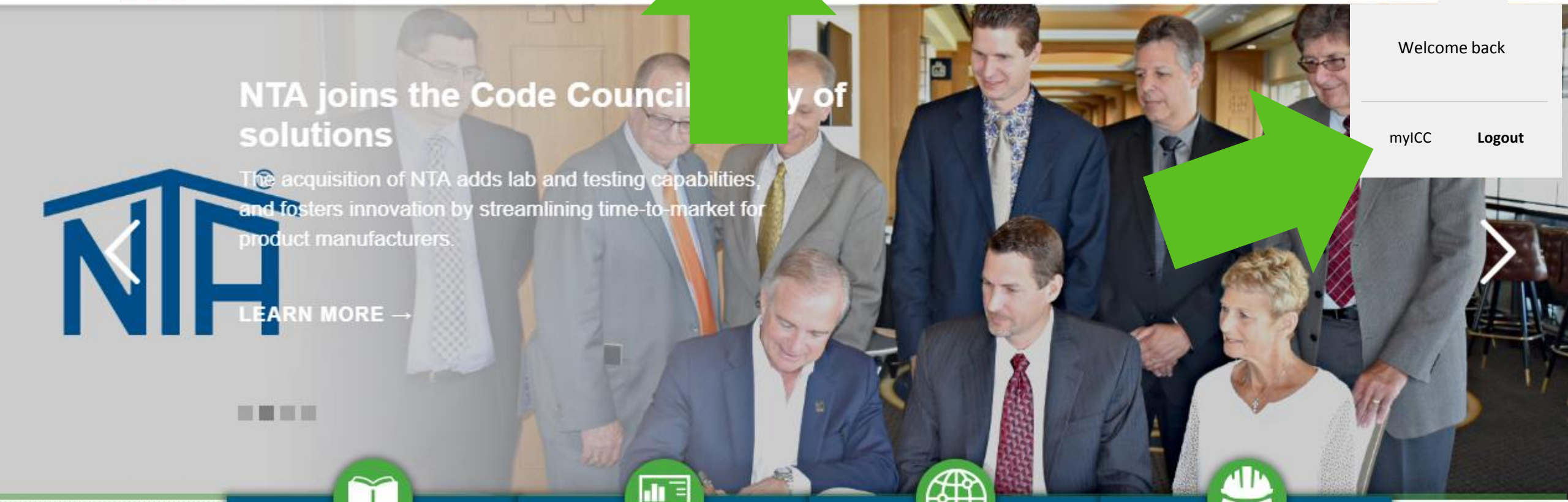

Trusted Source for Codes & Standards
Our model building codes and standards provide the highest level of safety in the world.

Building Safety Experts
Our Family of Companies delivers a wide array of building safety services, including evaluation, accreditation, certification, codification,

Professional Development
We support the building industry with the latest training, mentoring and education resources.

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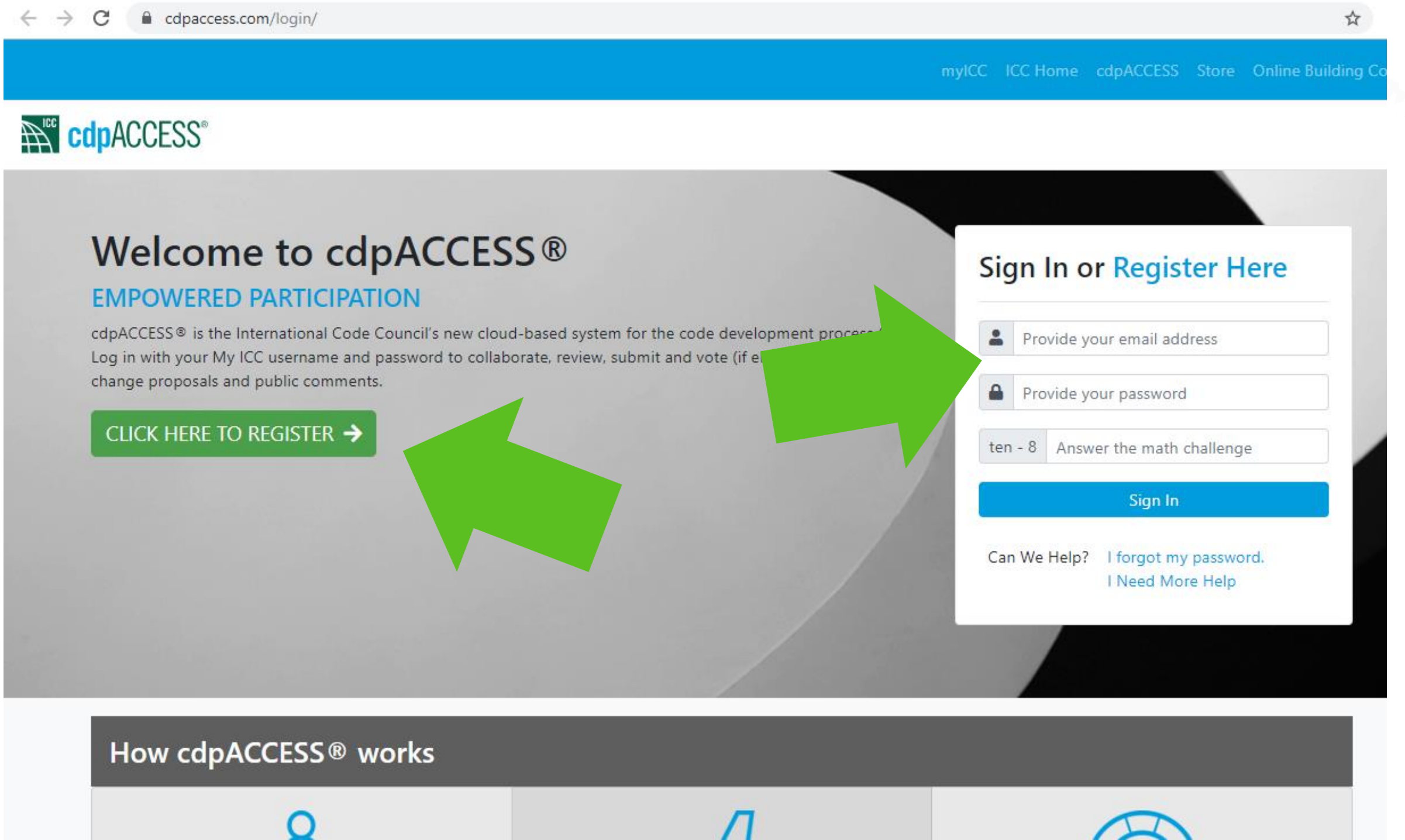
Join us in Las Vegas for the Code Council's 2019 Annual Conference, Code Hearings & Expo, October 20 – 30. Register now and save.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EMPOWERED PARTICIPATION
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Log in with your My ICC username and password to collaborate, review, submit and vote (if e
change proposals and public comments.
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Provide your password
ten - 8
Answer the math challenge
Sign In
Can We Help?
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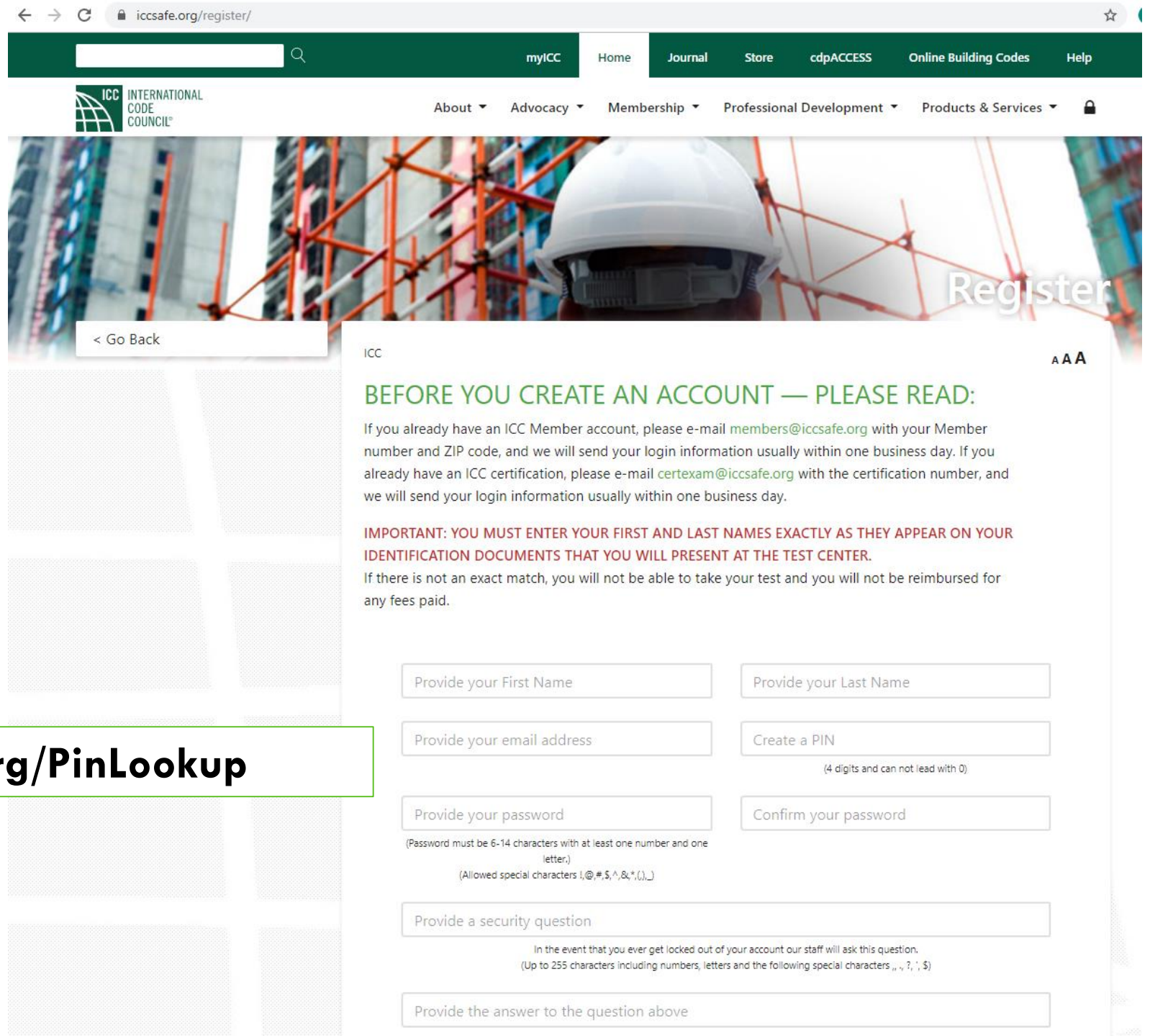
How cdpACCESS® works



ICCSafe.org/PinLookup

Steps to Vote

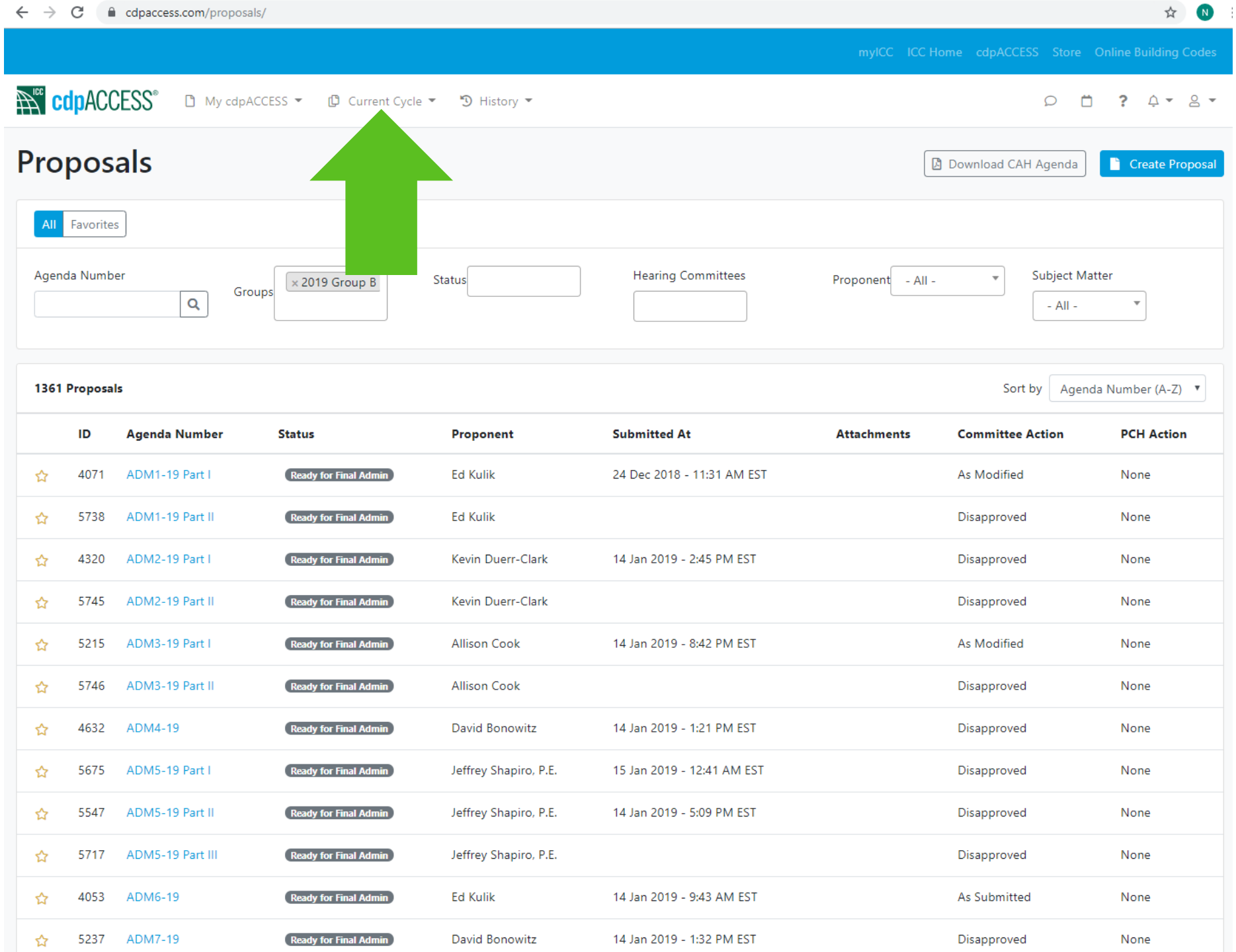
- **Log into CDP Access**
  - You will need a username, password, PIN, and DOB
- **Navigate to the Online Vote**
- **Locate the Code Proposals You Wish to Vote For**
  - Organized by residential and then commercial proposals. Within these categories, in numerical order
  - Can use the search bar for individual proposals
- **Save Your Progress**
- **Submit**
- **Verify**

Understanding Proposals for Vote

Prop. #	Cmtee Result	PCH Result	EECC Vote Recommendation	Proposal Summary
RE7	AS	AMPC1	AMPC1	Improves lighting efficacy requirements to 65 lumens/watt for lamps and 45 lumens/watt for luminaires; renames *high-efficacy lamps* as *high-efficacy light sources*; excludes kitchen appliance lighting fixtures.
RE10	AS	D	D	Adds new definition of *sampling*, a process where <100% of units are randomly inspected and/or tested to code requirements.

Version of the Proposal:

AS: As Submitted
AM: As Modified by Committee
AM PC 1: As Modified by Public Comment 1


cdpaccess.com/proposals/
myICC
ICC Home
cdpACCESS
Store
Online Building Codes
cdpACCESS
My cdpACCESS
Current Cycle
History
Proposals
Download CAH Agenda
Create Proposal
All
Favorites
Agenda Number
Groups
2019 Group B
Status
Hearing Committees
Proponent
- All -
Subject Matter
- All -
1361 Proposals
Sort by
Agenda Number (A-Z)
ID
Agenda Number
Status
Proponent
Submitted At
Attachments
Committee Action
PCH Action
4071 ADM1-19 Part I Ready for Final Admin Ed Kulik 24 Dec 2018 - 11:31 AM EST As Modified None
5738 ADM1-19 Part II Ready for Final Admin Ed Kulik Disapproved None
4320 ADM2-19 Part I Ready for Final Admin Kevin Duerr-Clark 14 Jan 2019 - 2:45 PM EST Disapproved None
5745 ADM2-19 Part II Ready for Final Admin Kevin Duerr-Clark Disapproved None
5215 ADM3-19 Part I Ready for Final Admin Allison Cook 14 Jan 2019 - 8:42 PM EST As Modified None
5746 ADM3-19 Part II Ready for Final Admin Allison Cook Disapproved None
4632 ADM4-19 Ready for Final Admin David Bonowitz 14 Jan 2019 - 1:21 PM EST Disapproved None
5675 ADM5-19 Part I Ready for Final Admin Jeffrey Shapiro, P.E. 15 Jan 2019 - 12:41 AM EST Disapproved None
5547 ADM5-19 Part II Ready for Final Admin Jeffrey Shapiro, P.E. 14 Jan 2019 - 5:09 PM EST Disapproved None
5717 ADM5-19 Part III Ready for Final Admin Jeffrey Shapiro, P.E. Disapproved None
4053 ADM6-19 Ready for Final Admin Ed Kulik 14 Jan 2019 - 9:43 AM EST As Submitted None
5237 ADM7-19 Ready for Final Admin David Bonowitz 14 Jan 2019 - 1:32 PM EST Disapproved None

LATEST UPDATES

Voting Member Survey: Online Remote Voting

Pinned

The International Code Council (ICC) Board of Directors has appointed an ad hoc committee to evaluate the possibility of an online remote voting process for ICC Board of Directors elections and other business at the Annual Business Meeting and is interested in your feedback. ICC continually strives to provide exceptional value and opportunities for members to make their voices heard, so your input is critical.

We have partnered with an independent consulting firm, McKinley Advisors, to assist in this research effort and ensure a data-driven process. This effort includes a survey for Governmental Member Voting Representatives ("GMVRs") and Honorary Members. If you are a GMVR or Honorary Member, you may have received an e-mail from McKinley Advisors containing a link to this survey; however, you may also access the survey using the following link: http://mckinley.ICC-Survey.sgizmo.com/s3/

As a reminder, only survey responses from Governmental Member Voting Representatives and Honorary Members will be considered, and you may only participate in the survey once.

Read More

2019 Group B Public Comment Agenda Now Available

Pinned

The public comment agenda is now available. Click here for the agenda.

2019 Group B Discussion Guide and Public Comment Agenda Updates Now Available

Oct 8, 2019 8:50 EDT

Click here for the Group B Discussion Guide

2019 Group B Report of Committee Action Now Available.

Jun 11, 2019 20:00 EDT

The 2019 Group B Report of Committee Action from the meeting in Albuquerque, NM are now available. Click here for the results.

2019 Group B CAH Results Now Available.

May 22, 2019 20:00 EDT

The 2019 Group B Committee Action Hearing results from the meeting in Albuquerque, NM are now available. Click here for the results. Note that the Report of Committee Action Hearings is scheduled to be posted June 11th.

LIN

CP-28

HELP

Video Tutorials

Creating a Public Comment

Creating Online Modifications

View Online Mods and Proposal Statuses

See more help topics

We're here to help! Send us an email and we'll get back to you right away.

Email cdpaccess@iccsafe.org

Please include your name and phone number

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cdpACCESS® My cdpACCESS Current Cycle History

Nicole Sanches

Registered User

- User

Settings

Login History

Invitations

Notifications

My Votes

Logout

PROFILE SETTINGS

Profile Settings

User Name	Nicole Sanches
Email Address	nsanches@mapc.org
Voter status for OGCV	Not Eligible - you are not validated to vote during the OGCV session. Please contact members@iccsafe.org if you feel this is in error.

Note: You must log into cdpACCESS with the same email address used for your voter validation if you are a Governmental Voting Representative, or your ICC Member account if you are an ICC Member. Please contact members@iccsafe.org if you have any questions about your membership status or voter validation.

Time Zone

America/New York (GMT -04:00)

Save

Voter Guide and Code Proposals to Look For

IECC Partners

MAPC
METROPOLITAN AREA PLANNING COUNCIL

MCAN
Mass Climate Action Network

Energy Efficient Codes Coalition

MAPC
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SIERRA CLUB

nep

Get Out the Vote

Join us in Newton for an

In-Person Workshop

RSVP:
https://www.eventbrite.com/e/how-to-vote-on-i-codes-regional-information-session-for-municipal-staff-tickets-80694823389

Nov 21st 3:00 PM

Plan a

Voting Pizza Party

Nov 18th – Dec 5th

ENERGY-EFFICIENT CODES COALITION
ENERGYEFFICIENTCODES.ORG

TIME TO VOTE!

Crossing the finish line and winning a 10%+ improved 2021 IECC

September 17, 2019

30,000 Feet

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IMPORTANCE OF THE 2021 IECC

eia Independent Statistics & Analysis
U.S. Energy Information Administration

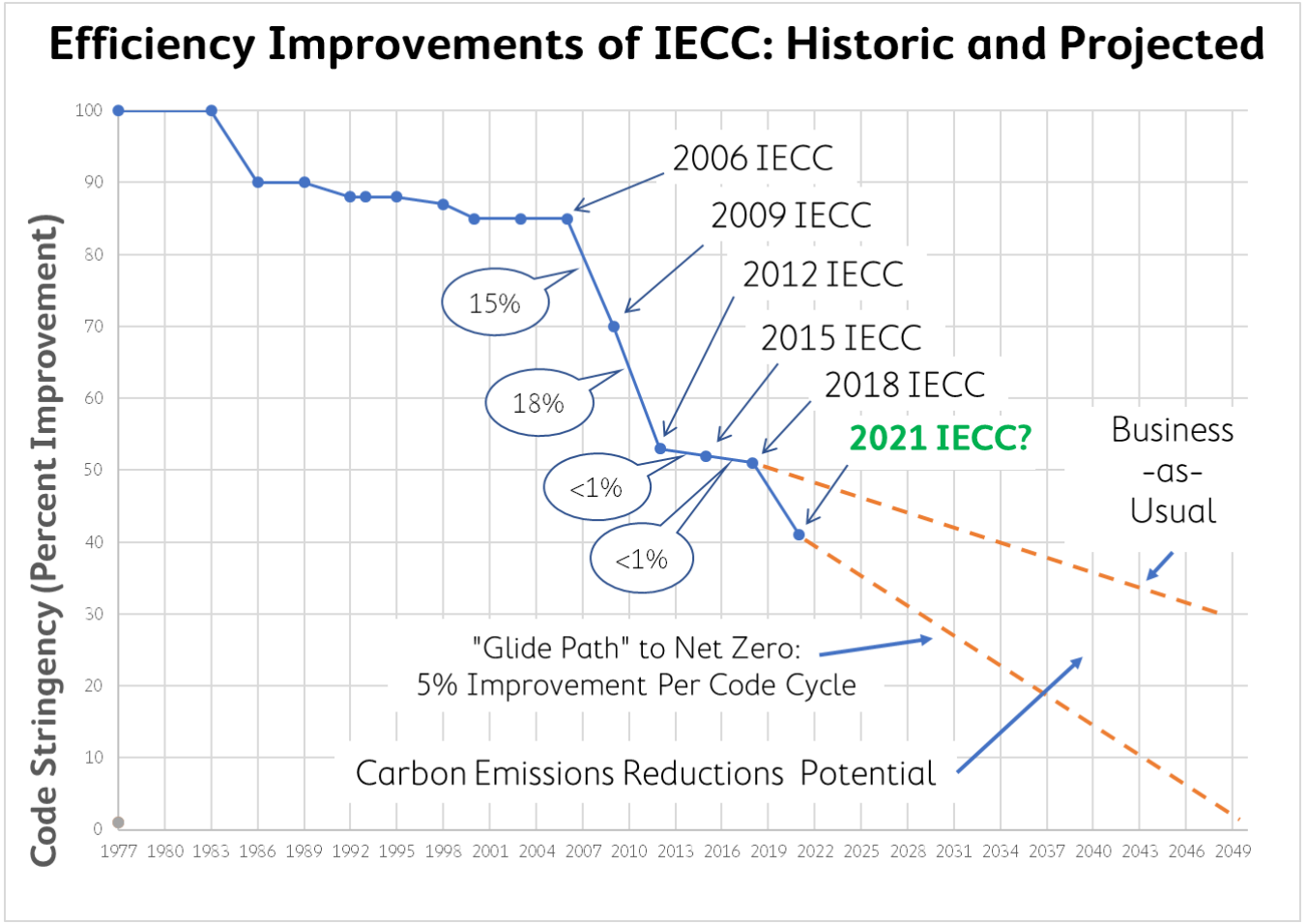
Building Sector Energy Consumption

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

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

Building Energy Codes Program

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



ENERGY-EFFICIENT CODES COALITION

EMISSIONS REDUCTION POTENTIAL AT STAKE

The Bottom Line:

EECC-sponsored Proposals: 35 MMT CO_2

EECC-endorsed Proposals + 15 MMT CO_2

Total Potential Carbon Emissions Reductions = 50 MMT CO_2

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INTO THE WEEDS

ENERGY-EFFICIENT CODES COALITION

2021 IECC DEVELOPMENT PROCESS—THUS FAR

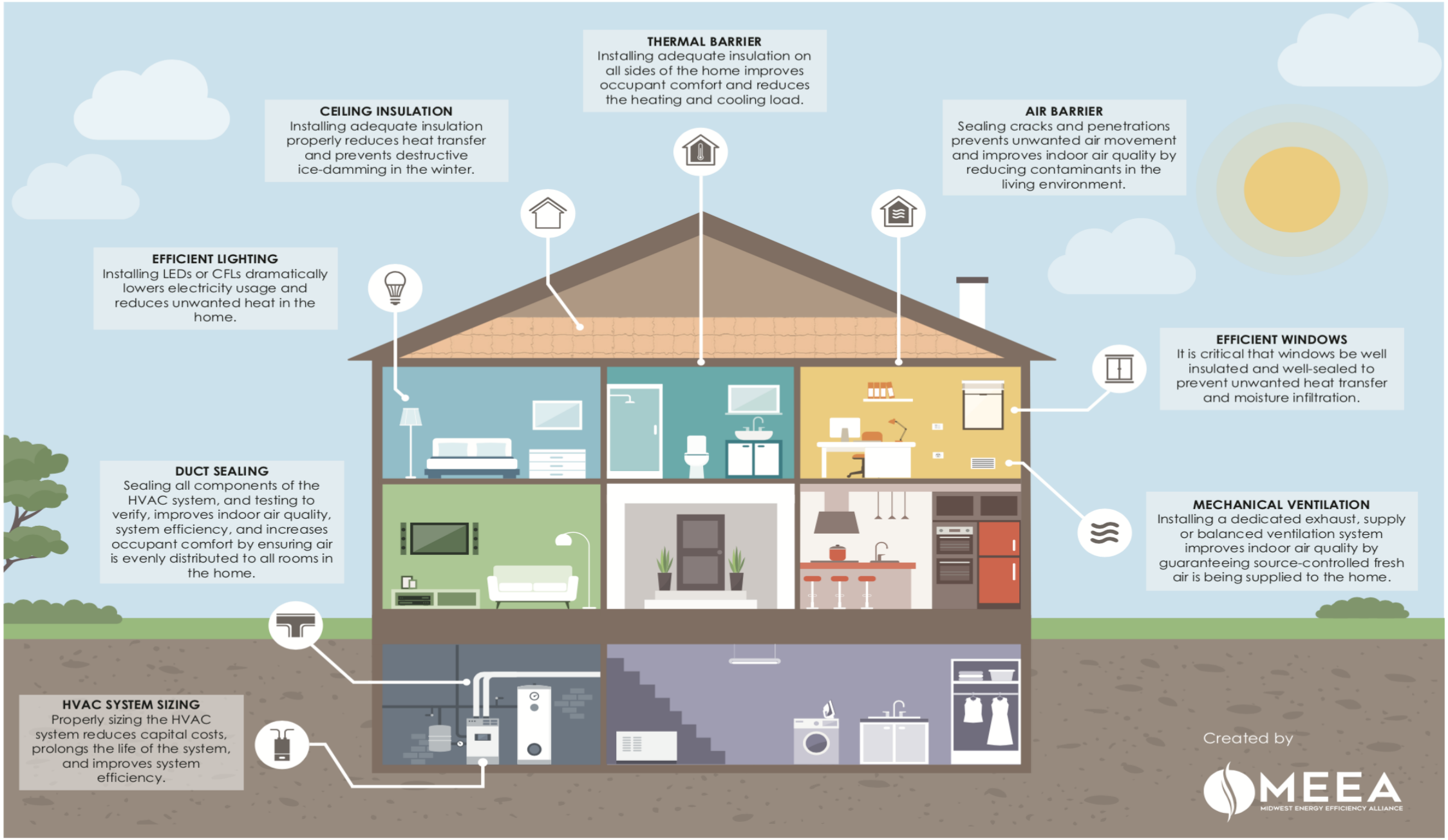
January 14	Residential and Commercial Code Proposals were submitted to ICC
March 4	Proposals Made Available by ICC
By March 29	Governmental Members registered with ICC
April 28 to May 8	ICC Committee Action Hearings, Albuquerque, NM
July 24	Public Comments due to ICC
September 23	Governmental Member Voting Representatives Assigned
October 23 to 30	ICC Public Committee Hearings, Las Vegas, NV
Nov 18 – Dec 5	Online voting via CDP Access

How the committee voted is very impactful. Determines whether we need a simple majority, or 2/3^{rds} voting majority (to overturn committee's decision)

The final BALLOT was set.
Some proposals moved to consent agenda (go into code). Some withdrawn.

Need to assure GMVRs VOTE!

How the Energy Code Improves a Home



2021 IECC PROPOSALS

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

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Examples of Important Proposals

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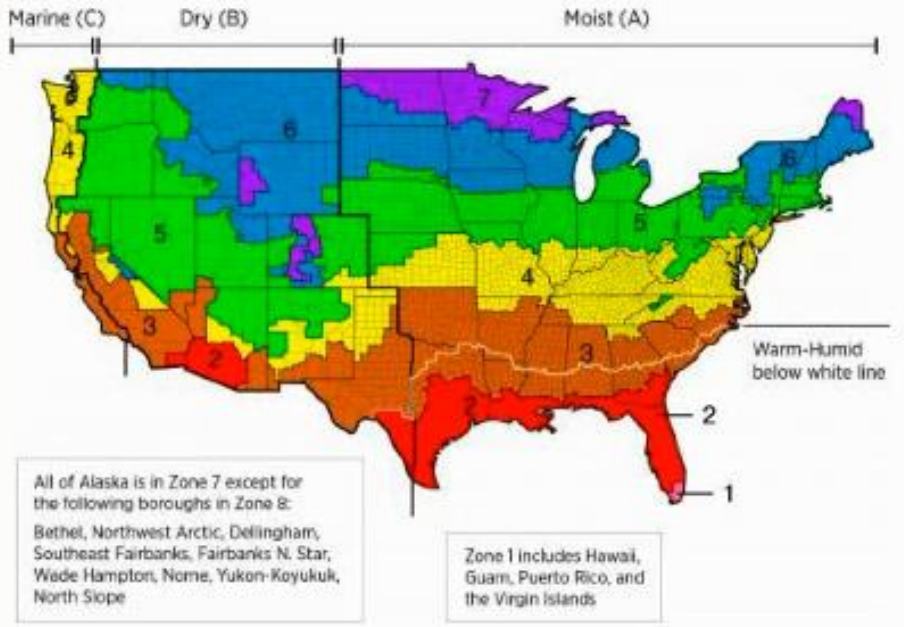
Proposals that Offer Flexibility to Builders
PROPOSAL: CE 218

Commercial Options for Section C 406

Existing Section C 406 Options
1. Efficient HVAC Equipment
2. Reduce Lighting Power Density
3. Renewable Energy
4. Dedicated Outdoor Air System
5. Service Water Heating
6. Efficient Fossil Fuel Water Heating
7. Enhanced Envelope Performance
8. Reduced Air Infiltration

IECC Climate Zones



Source: https://basc.pnnl.gov/images/iecc-climate-zone-map

ENERGY-EFFICIENT CODES COALITION

PROPOSAL: CE 218

Commercial Options for Section C 406

Exis ection C 406 Options
1. Effici AC Equipment
2. Reduce g Power D
3. Renewable y
4. Dedicated Ou ystem
5. Service Water H
6. Efficient Fos Heating
7. Enhance lope Pe nce
8. Reduc Infiltration

Commercial Points Table in CE 218

Table C406.1(4)
Additional Energy Efficiency Credits for Group M Occupancies

Sub-section / Climate Zone:	1A	1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B	7	8
C406.2.1: 5% Heating	NA	NA	NA	NA	1	1	NA	1	1	2	2	2	2	3	2	3	4
C406.2.2: 5% Cooling	5	6	4	4	3	3	1	2	2	1	1	2	NA	1	1	1	NA
C406.2.3: 10% Heating	NA	NA	NA	1	1	1	1	2	2	4	3	4	5	5	3	6	8
C406.2.4: 10% Cooling	9	12	9	8	6	6	3	4	4	1	2	3	NA	2	2	2	1
C406.3.1: 10% LPA	13	13	15	14	16	14	17	15	15	14	12	14	14	16	16	14	12
C406.5: Renewable	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	6
C406.6: DOAS	3	4	3	3	3	3	1	3	2	2	2	3	2	4	3	4	4
C406.7.1: SWH HR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C406.7.2: SWH NG eff	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C406.7.3: SWH HP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C406.8: 85% UA	4	6	3	4	3	3	1	6	4	4	4	5	4	6	5	8	9
C406.9: Low Leak Env.	1	1	1	2	1	1	NA	3	1	1	3	2	1	7	3	6	3

INSTRUCTIONS

1. Find appropriate table based on occupancy type
2. Select measure
3. Find climate zone

ENERGY-EFFICIENT CODES COALITION

RE 209: RESIDENTIAL Flex Points Proposal

- Flexibility for builders
- Packages instead of individual energy saving measures
- 5 points are required
- Each point represents 1 % savings; total greater than 5% savings

ENERGY-EFFICIENT CODES COALITION

COMMERCIAL PROPOSALS
PUSHING THE BUILDING ENVELOPE

Proposal Number(s)	How does it push the building envelope?
CE 35, CE61, CE63, CE64, CE66, CE68, CE69, CE 73 & CE 75	Improves insulation requirements
CE96, CE97 & CE99	Requires air leakage testing and commissioning of air barrier

ENERGY-EFFICIENT CODES COALITION

COMMERCIAL: Understanding how building operates

Providing Data and Improving Building Operations

Proposal Number	How?
CE 111	Provides data to improve building operations
CE 215	Adds energy monitoring system
CE 216	Allows for control of plug load receptacles

Better Mechanical Systems

Proposal Number	How?
CE 113	Ensures higest efficiency equipment in code
CE 140	Requires efficient ventilation fans in multifamily buildings

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CE 162: Residential Lighting Energy Use in Multifamily Buildings

CE 162: Clarifies and improves lighting for apartments and condos

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CE 209: Improves lighting efficiency for plants / indoor agricultural lighting

- In many areas, indoor agriculture is fastest growing load on the grid.
- Developed in collaboration with the American Society of Agricultural and Biological Engineers
- Estimate to save 78% over high pressure sodium lamps

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Improving RESIDENTIAL Building Efficiency

Proposal Number(s)	How does it improve residential building efficiency?
RE29, RE32, RE33, RE34, RE36	Improves insulation requirements
RE35, RE37	Improves window performance to reduce heat loss and reduce cooling
RE112	Eliminates leaky ducts
RE139	Requires efficient ventilation systems
RE7, RE148	Increases efficiency of interior and exterior lights
RE182, RE184, RE192	Increases the efficiency of building when using Energy Rating Index (i.e. HERS) approach

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Electrification in the IECC

Beneficial Electrification

- **RE 126** encourages higher efficiency water heating sources and requires lower efficiency water heater types to be installed with renewables
- **RE 147** - Requires electric circuits and receptacles near gas- and propane-fired equipment

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Electrification in the IECC

CE 217 Part 1 – Commercial Code
CE 217 Part 2 - Residential Code

SWEEP
SOUTHWEST ENERGY EFFICIENCY PROJECT

nbi new buildings institute

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Efficiency FIRST, then add renewable energy

Renewables

- **RE 223** Zero Energy Ready Appendix
  - OPTIONAL provision for advanced jurisdictions
  - Requires renewables in a way that aligns with rest of the code
- **CE 21 -** updates the definitions of biomass-related renewable energy so virgin material cannot be used

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Vote

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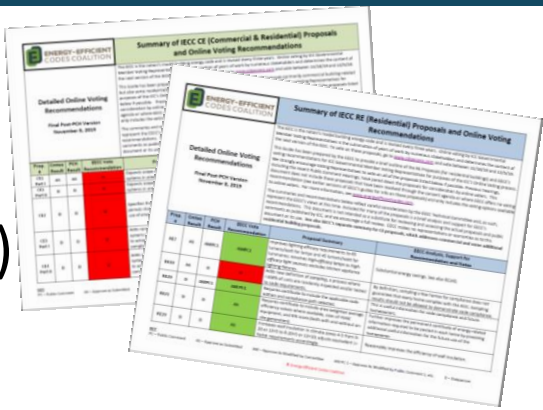
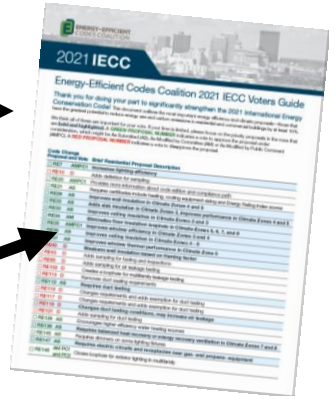
OPTIONS for Voting



1. **Best, most impactful:** Use 2021 IECC Comprehensive Voting Guides (one each for Residential and Commercial (117 proposals)
2. **Second best (limited time):** Use the EECC Top Priorities Voting Guide (98 proposals)



3. **Third best (most limited time):** Just vote on the blue highlighted proposals

For the full (2,000 page) monograph of all proposals, modifications, and public comments, go to https://cdn-web.iccsafe.org/wp-content/uploads/2019-ICC-PUBLIC-COMMENT-AGENDA-compressed-2019-upload-upload.pdf

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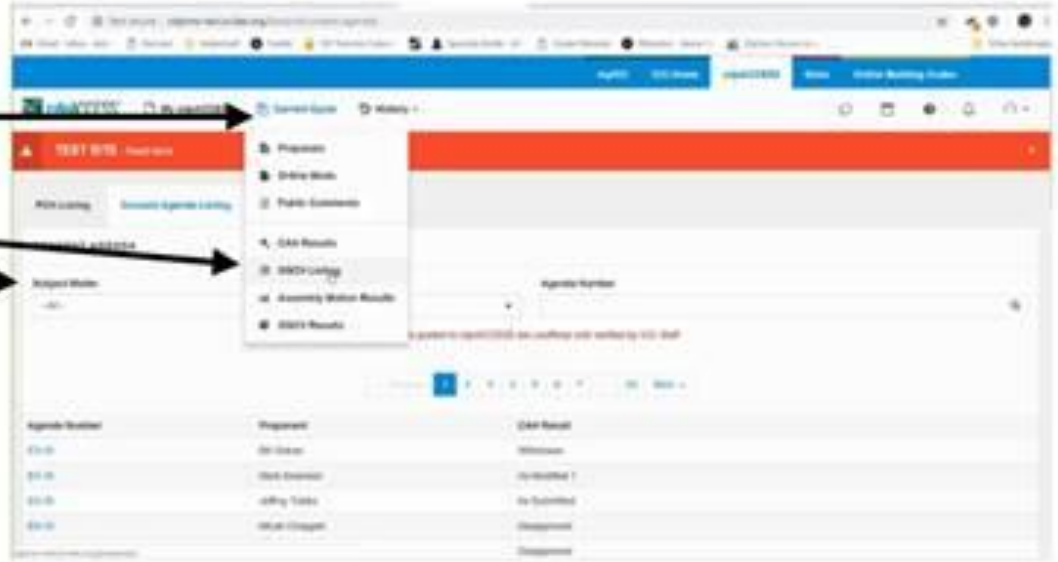
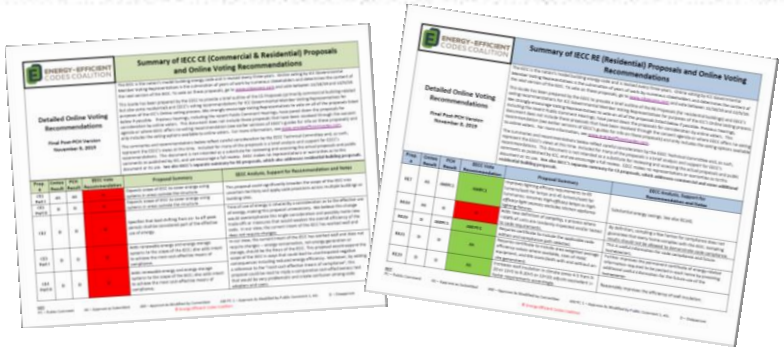
The Fastest Way to Vote

1. Log in to CDP Access and click on “Current Cycle”
2. Go to the **OGCV Listing** page
3. Search for “**IECC**” in the “Subject Matter” box
4. From there, you will see about 20 proposals per page
5. Use the EECC Voting Guide to select your choice
6. Continue through the pages until all your votes are cast!





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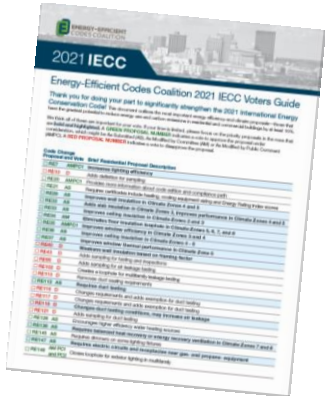

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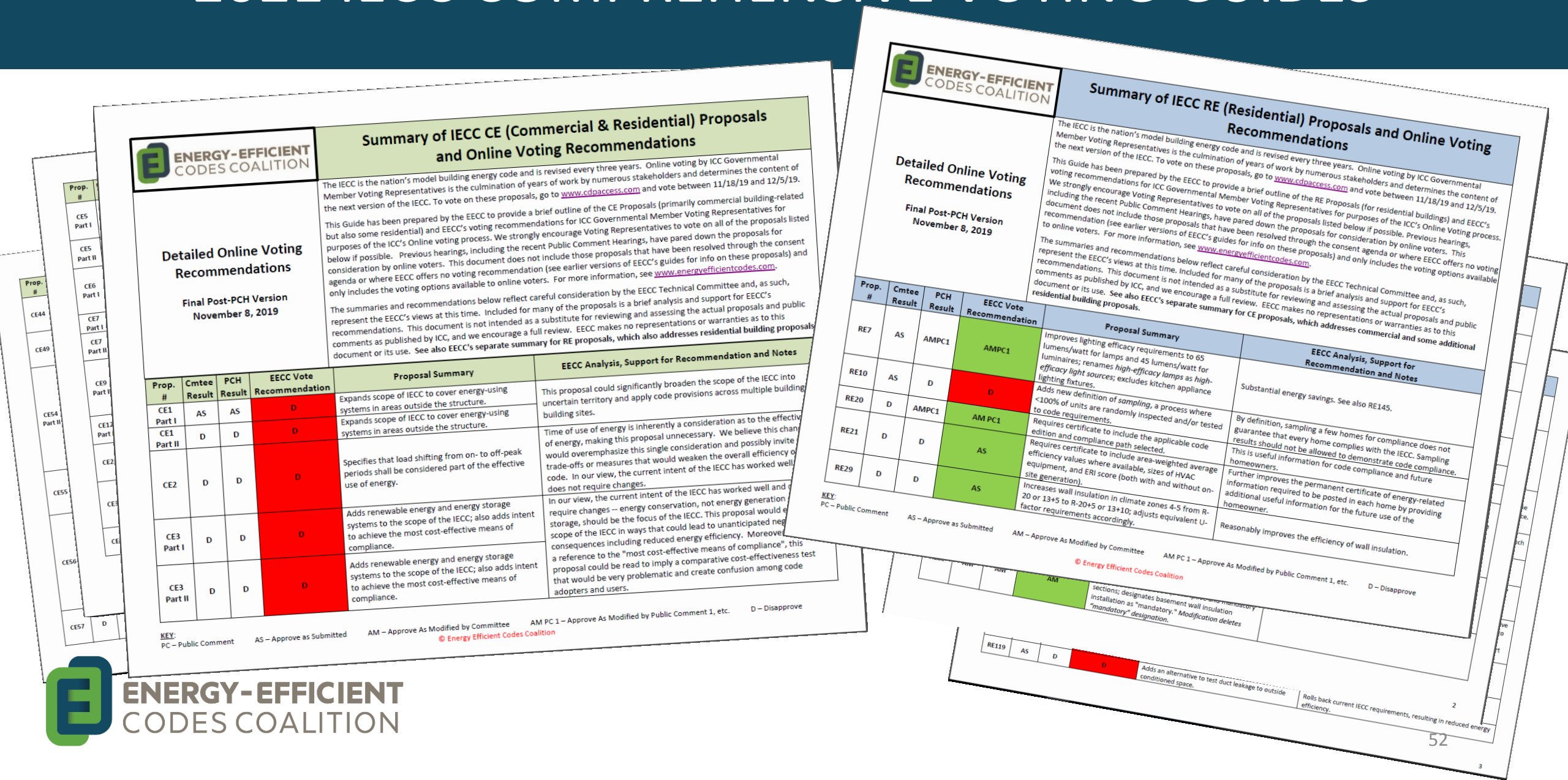
2021 IECC COMPREHENSIVE VOTING GUIDES



ENERGY-EFFICIENT CODES COALITION

Summary of IECC CE (Commercial & Residential) Proposals and Online Voting Recommendations

Detailed Online Voting Recommendations

Final Post-PCH Version
November 8, 2019

The IECC is the nation's model building energy code and is revised every three years. Online voting by ICC Governmental Member Voting Representatives is the culmination of years of work by numerous stakeholders and determines the content of the next version of the IECC. To vote on these proposals, go to www.cdpaccess.com and vote between 11/18/19 and 12/5/19.

This Guide has been prepared by the EECC to provide a brief outline of the CE Proposals (primarily commercial building-related but also some residential) and EECC's voting recommendations for ICC Governmental Member Voting Representatives for purposes of the ICC's Online voting process. We strongly encourage Voting Representatives to vote on all of the proposals listed below if possible. Previous hearings, including the recent Public Comment Hearings, have pared down the proposals for consideration by online voters. This document does not include those proposals that have been resolved through the consent agenda or where EECC offers no voting recommendation (see earlier versions of EECC's guides for info on these proposals) and only includes the voting options available to online voters. For more information, see www.energyefficientcodes.com.

The summaries and recommendations below reflect careful consideration by the EECC Technical Committee and, as such, represent the EECC's views at this time. Included for many of the proposals is a brief analysis and support for EECC's recommendations. This document is not intended as a substitute for reviewing and assessing the actual proposals and public comments as published by ICC, and we encourage a full review. EECC makes no representations or warranties as to this document or its use. **See also EECC's separate summary for RE proposals, which also addresses residential building proposals.**

Prop. #	Cmtee Result	PCH Result	EECC Vote Recommendation	Proposal Summary	EECC Analysis, Support for Recommendation and Notes
CE1 Part I	AS	AS	D	Expands scope of IECC to cover energy-using systems in areas outside the structure.	This proposal could significantly broaden the scope of the IECC into uncertain territory and apply code provisions across multiple building building sites.
CE1 Part II	D	D	D	Expands scope of IECC to cover energy-using systems in areas outside the structure.	
CE2	D	D	D	Specifies that load shifting from on- to off-peak periods shall be considered part of the effective use of energy.	Time of use of energy is inherently a consideration as to the effectiv of energy, making this proposal unnecessary. We believe this chan would overemphasize this single consideration and possibly invite trade-offs or measures that would weaken the overall efficiency o code. In our view, the current intent of the IECC has worked well does not require changes.
CE3 Part I	D	D	D	Adds renewable energy and energy storage systems to the scope of the IECC; also adds intent to achieve the most cost-effective means of compliance.	In our view, the current intent of the IECC has worked well and require changes -- energy conservation, not energy generation storage, should be the focus of the IECC. This proposal would e scope of the IECC in ways that could lead to unanticipated neg consequences including reduced energy efficiency. Moreove a reference to the "most cost-effective means of compliance", this proposal could be read to imply a comparative cost-effectiveness test that would be very problematic and create confusion among code adopters and users.
CE3 Part II	D	D	D	Adds renewable energy and energy storage systems to the scope of the IECC; also adds intent to achieve the most cost-effective means of compliance.	

KEY:
PC – Public Comment AS – Approve as Submitted AM – Approve As Modified by Committee AM PC 1 – Approve As Modified by Public Comment 1, etc. D – Disapprove

ENERGY-EFFICIENT CODES COALITION

Summary of IECC RE (Residential) Proposals and Online Voting Recommendations

Detailed Online Voting Recommendations

Final Post-PCH Version
November 8, 2019

The IECC is the nation's model building energy code and is revised every three years. Online voting by ICC Governmental Member Voting Representatives is the culmination of years of work by numerous stakeholders and determines the content of the next version of the IECC. To vote on these proposals, go to www.cdpaccess.com and vote between 11/18/19 and 12/5/19.

This Guide has been prepared by the EECC to provide a brief outline of the RE Proposals (for residential buildings) and EECC's voting recommendations for ICC Governmental Member Voting Representatives for purposes of the ICC's Online Voting process. We strongly encourage Voting Representatives to vote on all of the proposals listed below if possible. Previous hearings, including the recent Public Comment Hearings, have pared down the proposals for consideration by online voters. This document does not include those proposals that have been resolved through the consent agenda or where EECC offers no voting recommendation (see earlier versions of EECC's guides for info on these proposals) and only includes the voting options available to online voters. For more information, see www.energyefficientcodes.com.

The summaries and recommendations below reflect careful consideration by the EECC Technical Committee and, as such, represent the EECC's views at this time. Included for many of the proposals is a brief analysis and support for EECC's recommendations. This document is not intended as a substitute for reviewing and assessing the actual proposals and public comments as published by ICC, and we encourage a full review. EECC makes no representations or warranties as to this document or its use. **See also EECC's separate summary for CE proposals, which addresses commercial and some additional residential building proposals.**

Prop. #	Cmtee Result	PCH Result	EECC Vote Recommendation	Proposal Summary	EECC Analysis, Support for Recommendation and Notes
RE7	AS	AMPC1	AMPC1	Improves lighting efficacy requirements to 65 lumens/watt for lamps and 45 lumens/watt for luminaires; renames *high-efficacy lamps* as *high-efficacy light sources*; excludes kitchen appliance lighting fixtures.	Substantial energy savings. See also RE145.
RE10	AS	D	D	Adds new definition of *sampling*, a process where <100% of units are randomly inspected and/or tested to code requirements.	By definition, sampling a few homes for compliance does not guarantee that every home complies with the IECC. Sampling results should not be allowed to demonstrate code compliance.
RE20	D	AMPC1	AM PC1	Requires certificate to include the applicable code edition and compliance path selected.	This is useful information for code compliance and future homeowners.
RE21	D	D	AS	Requires certificate to include area-weighted average efficiency values where available, sizes of HVAC equipment, and ERI score (both with and without on-site generation).	Further improves the permanent certificate of energy-related information required to be posted in each home by providing additional useful information for the future use of the homeowner.
RE29	D	D	AS	Increases wall insulation in climate zones 4-5 from R-20 or 13+5 to R-20+5 or 13+10; adjusts equivalent U-factor requirements accordingly.	Reasonably improves the efficiency of wall insulation.
			AM	sections; designates basement wall insulation installation as "mandatory." *Modification deletes "mandatory" designation.*	
RE119	AS	D	D	Adds an alternative to test duct leakage to outside conditioned space.	Rolls back current IECC requirements, resulting in reduced energy efficiency.

KEY:
PC – Public Comment AS – Approve as Submitted AM – Approve As Modified by Committee AM PC 1 – Approve As Modified by Public Comment 1, etc. D – Disapprove

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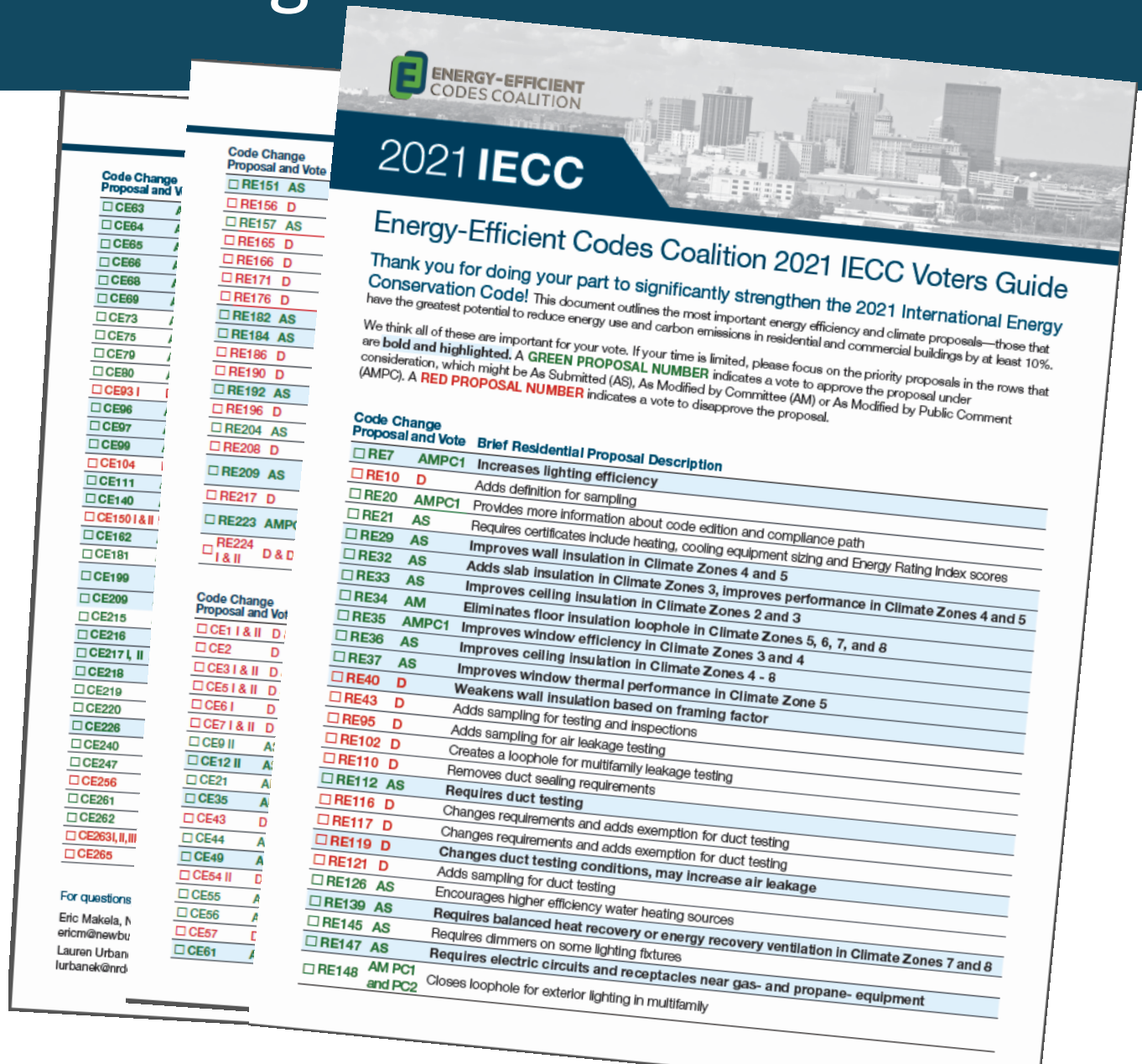
EECC Top Priorities Voting Guide



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EECC ONLINE RESOURCES

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

- ✓ How-to Vote Videos
- ✓ First-time Voters Webinar
- ✓ Voting Guides
- ✓ Much More

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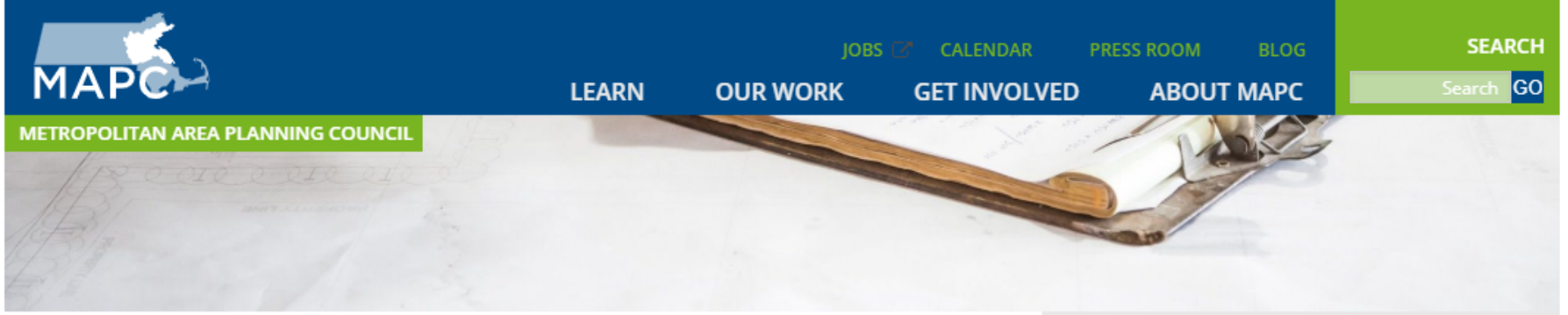
THANK YOU!

Maria Ellingson
MEllingson@ase.org

November 13, 2019



https://www.mapc.org/resource-library/building-codes-climate

CLEAN ENERGY

Building Codes for Climate

Take Action Today to Help Set Higher Efficiency Minimums!

BACKGROUND

Massachusetts municipalities can help support their residents' health and safety through the adoption and enforcement of state building codes. These codes also set forth essential energy policies, setting minimum efficiency requirements for a variety of building practices and technologies used in our cities and towns. With the Green Communities act of 2008, Massachusetts created to option for municipalities to adopt a stretch energy code.

QUESTIONS? NEED HELP?

For more information or for help walking through the process, contact **Nicole Sanches** at nsanches@mapc.org or 617-933-0760.

ON THIS PAGE

Questions?

Contact

Nicole Sanches

Clean Energy Coordinator

nsanches@mapc.org

(617) 933-0761

Cammy Peterson

Director of Clean Energy

cpeterson@mapc.org

(617) 933-0791

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