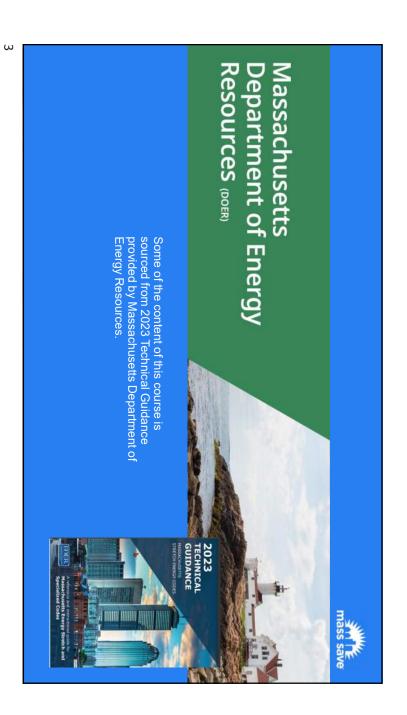


mass save The Sponsors of Mass Save work closely with the Massachusetts Department of Energy Resources to provide a wide range of services, incentives, Mass Save® is an initiative sponsored by efficiency that help residents and businesses manage energy use and related costs. trainings, and information promoting energy providers, including Massachusetts' gas and electric
Program Administrators and energy efficiency service Eversource Energy Cape Light Compact The Berkshire Gas Company o Liberty Utilities 1 15 What is Mass Save®? **EVERS**URCE Unitil 0 National Grid WE ARE MASS SAVE": Liberty: We Are Mass Save® national**grid** Olmitil



Presented by:



#### Moving Energy Efficiency Forward

We combine building science with technology to help utility providers, program implementers, and building performance professionals achieve energy savings.

PSD

5

Today's Presenter



Bill Footer

Energy Efficiency Program Manager

### Today's Presenter



**Art Pakatar** 

Senior Manager, Energy Codes Division

#### Continuing Education

This webinar is approved for:

- 3-hour CSL CEU
- 3 CO CEU 3 AIA LU | HSW

3 BPI CEU

Everyone will receive a certificate of attendance via email



 $\infty$ 



Massachusetts

**Energy Code** 

2023 Commercial Stretch Energy Code

Requirements

**Commercial Energy Efficiency** 

**Compliance Pathways** 

**Existing Buildings** 

**Appendix CB Solar Ready** 

**EV** Ready

Municipal Opt-In Specialized Stretch Code

Summary

9

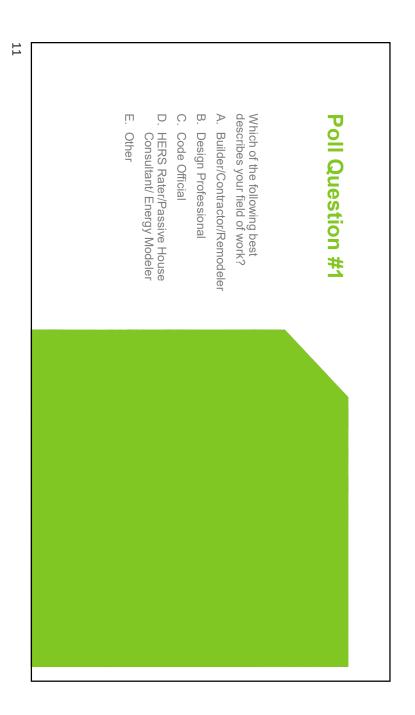
# earning Outcomes

Be familiar with the new Commercial Stretch Code.

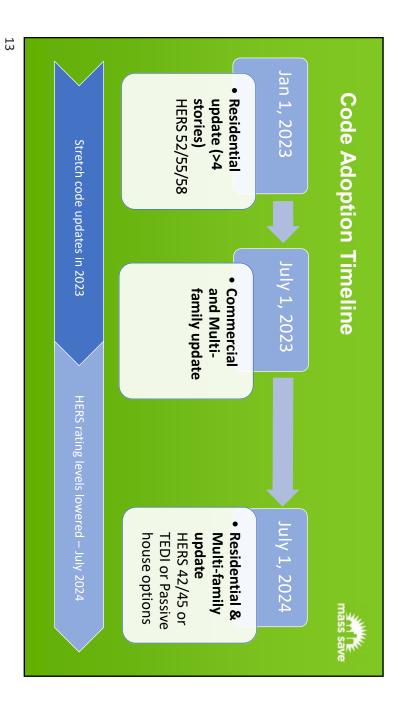
Gain knowledge of the different compliance pathways and new performance requirements under the Commercial Stretch Code.

Comprehend the impact of thermal bridging on the overall Building Thermal Envelope.

Understand how the Commercial Stretch Code applies to existing buildings and addresses additions, alterations, and changes in use.



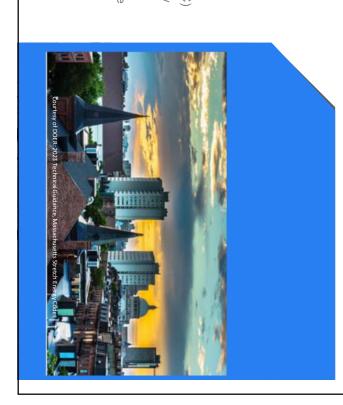
2021 IECC Model Code The 2023 Massachusetts Energy Code MA 10th Edition IECC 2021 Base Base + Stretch Stretch Code + Specialized Opt-In Base + Stretch Specialized Opt-in Code



MA Base Energy Code

The Base Energy Code is...

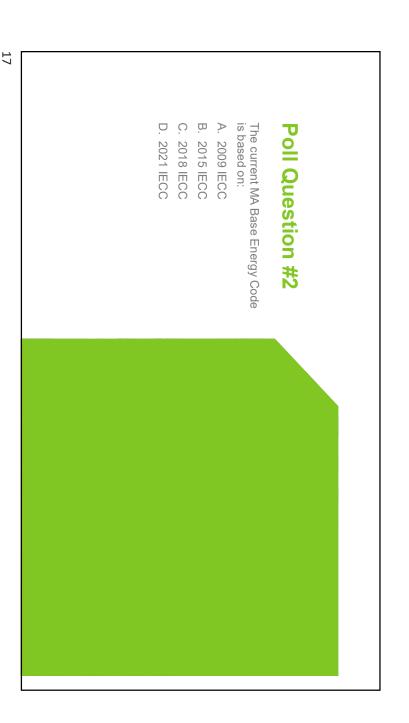
- The default statewide energy code
- Based on the 2021 IECC\* (Currently based on 2018 IECC)
- Provides a base level of energy savings
- Found in Chapter 13: Energy
   Efficiency Amendments of the MA State Building Code (CMR 780)
- \* Anticipated Early 2024



#### ✓ Group R-2, R-3, R-4 buildings three stories or less in above grade height. √ Townhouses All buildings other than: **Application** ✓ Detached one- and two-family **Commercial Code** dwellings,

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**Commercial Provisions** General Building Thermal Envelope Chapter 4 [CE]
Commercial Energy Efficiency Chapter 1 [CE] Scope and Administration Chapter 3 [CE]
General Requirements Chapter 5 [CE]
Existing Buildings Chapter 2 [CE]
Definitions Systems Electric Power & Lighting



2023 Commercial Stretch
Code Overview

### **MA Stretch**

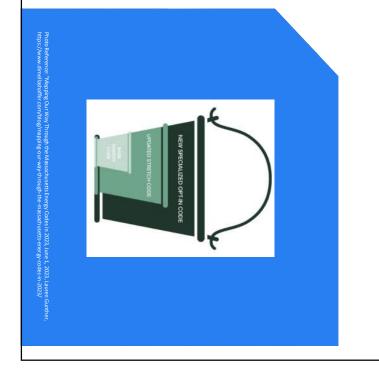
The Commercial Stretch Energy Code... Is developed by the MA
Department of Energy Resources
(DOER) **Energy Code** Is adopted at the level of the local jurisdiction Results in greater energy savings than the Base Energy Code Requires compliance with 2021 IECC as amended for MA

19

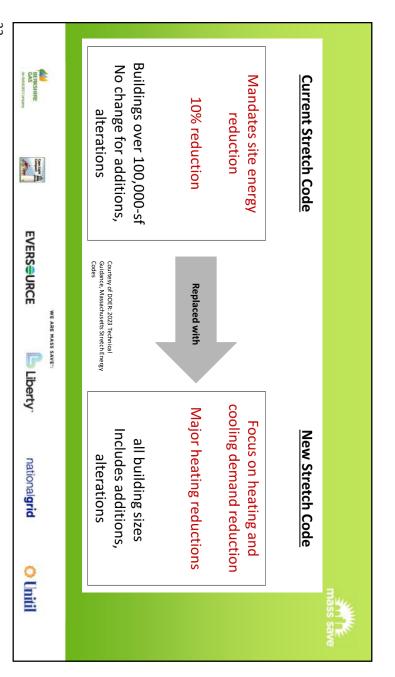
### chusetts Energy Codes Massachusetts Building Energy Code Adoption by Municipality **Stretch Code Communities**

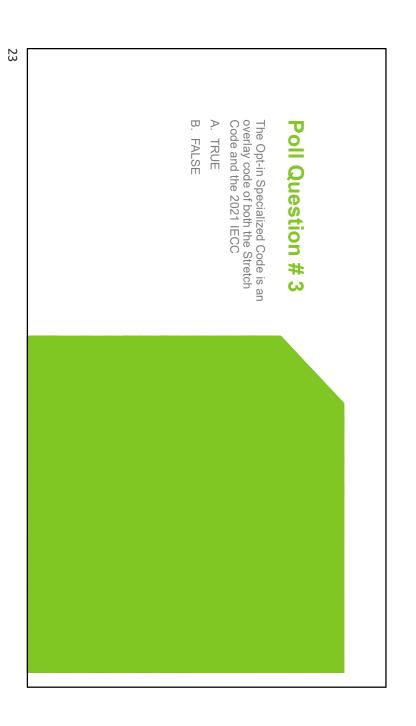
### Specialized Opt-In Code

- ✓ IECC 2021 w/ MA Amendments
- ✓ Stretch Code Amendments
- ✓ Specialized Code Appendices
- √ 17 Communities have voted to adopt.
- ✓ Effective in 4 communities July 1, 2023
- ✓ Next Round January 1, 2024



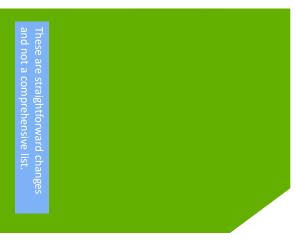
21





Stretch Code Requirements

# Summary of Minor Code Changes



Code Section	Summary of Measure
C103.2	Adds documentation requirements for Solar Ready, EV Ready Spaces, ventilation rate for Relative Performance (see Additional Information for more guidance), and Mixed-Fuel systems' plans for electrification for the Specialized Code, Clarification of COMcheck submittal documentation.
C202	Adds definitions for All-Electric Building, Automatic Load Management System, Class 3 Exhaust, Class 4 Exhaust, Clean Blomass Heating System, Combustion Equipment, Glazed Wall System, Dedicated Outdoor Air System, Electric Vehicle, Electric Vehicle Ready Parking Space, Enthalpy Recovery Ratio, Exempt Exhaust, Fuel Gas, Fuel Oll, Mixed-Fuel Building, Other Exhaust, Sensible Energy Recovery Ratio, Spandrel Section, Thermal Bridge
C402.2.4.1	Insulation Installation, Delete C402.2.4.1 Exception
C402.2.8	New section listing specifications for fireplaces.
C402.4	Lowers fixed and operable U-factors and makes performance documentation explicit for all fenestration.
C402.6	Approved Calculation Software Tools, Allows MA Stretch COMcheck
C405.2	Lowers existing threshold requiring controls in daylight zones to 100W.
Appendix CB	Solar-Ready Zone – Commercial, included without modification

Simple code measures that don't require further explanation. Refer to code for specific requirements.

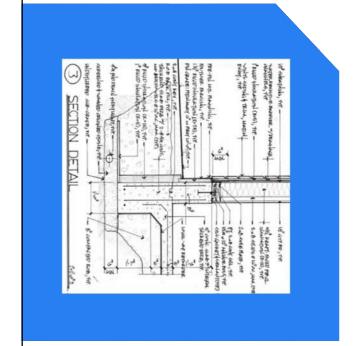
Courtesy of DOER: 2023 Technical Guidance, Massachusetts Stretch Energy Codes

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### **Construction Documents**

New Requirements to be included on Construction Documents (CDs)

- Solar Ready Roof Zone or Potential Solar Zone Area
- EV Ready Spaces
- Relative Performance Pathway ventilation documentation, schedules, and calculations
- For Opt-in Communities electric HVAC retrofit design



### COMcheck Required

**ALL Permits Shall Include Completed** COMcheck including:

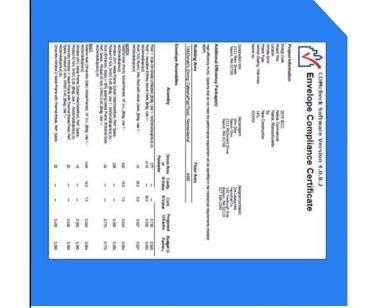
- **Envelope Compliance Certificate**
- **Lighting Compliance Certificate**
- **Mechanical Compliance Certificates**
- Plan Review/Inspection Checklist

#### Exception:

Projects documenting compliance following Section C407.2 (ASHRAE 90.1 Appendix G) shall follow applicable reporting requirements.



https://energycode.pnl.gov/COMcheckWeb/



#### **Definitions**

- the scope applicable to this code. definitions of terms/words related to Chapter 2 as always includes
- the terms are being used.

Helps maintain the context in which

- Some new definitions in the version include:
- Dedicated Outdoor Air System (DOAS)

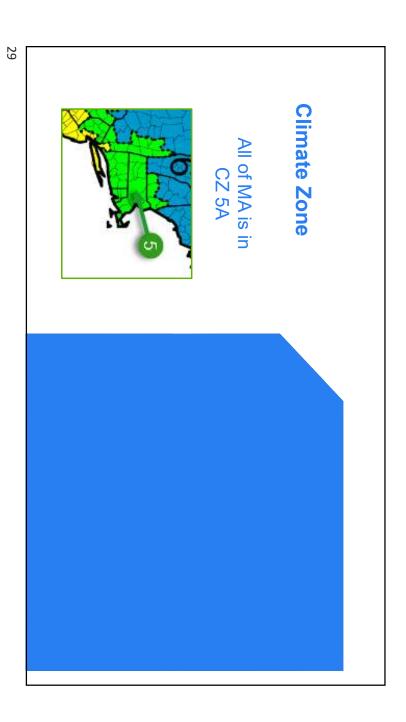
Thermal Bridge

- **Spandrel Section**
- Tenant Fit Out
- Enthalpy

Zone

Recovery Ratio

Distribution Efficiency Sensible Energy Recovery Ratio System (ALMS) Thermal Management **Automatic Load** 



Poll Question #4

 $\overline{\mathbb{D}}$ ₽ Which of the following is a new requirement to be depicted on the Construction Documents submitted for permitting? D. Ventilation documentation, schedules, and calculations C. Air Barrier Solar Ready Zone Thermal Boundary



### Commercial Energy Efficiency

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# **Compliance Pathways**



### **Prescriptive Compliance**

Nonresidential buildings ≤20,000 sf

# Targeted Performance Compliance

Dormitories, fire stations, libraries, offices, schools, police stations, post offices and town halls over 20,000 sf and having average ventilation at full occupancy of 0.5 cfm/sf or less

# Relative Performance Compliance

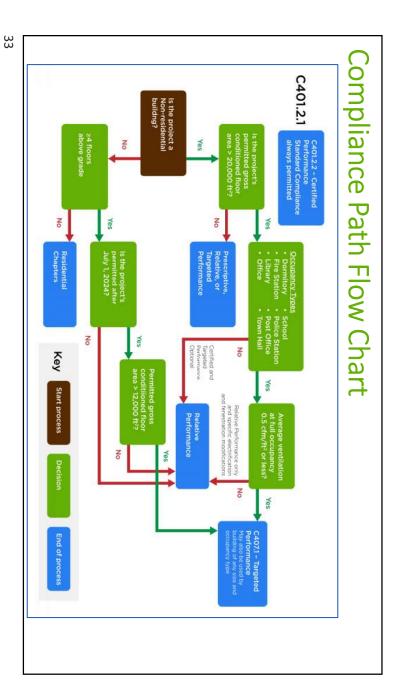
Buildings not required to use Targeted Performance are permitted to use this path

# **Certified Performance - Passive House**

All buildings or spaces are permitted to use Passive House compliance

# **Certified Performance - HERS Compliance**

All Group R buildings and Group R spaces in buildings with multiple dwelling units are permitted to use HERS compliance



0 0 Mixed Use Buildings Where different compliance paths are required – each use shall follow the appropriate patch Where there are 2 or more uses within a building each use shall separately and independently show compliance 图

### Thermal Envelope Certificate

The 2021 IECC requires a permanent thermal envelope certificate to be posted in the furnace or utility room including

Information required includes:

- R-Values for the envelope components
- U-factors and SHGCs of fenestration
- Results from any building envelope air leakage testing performed on the building



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### **IECC Amended Sections for Compliance Pathways**

	C402	Building Envel	ope Re	equirements	C401.4.	C401.4.	Require certifica characts fenestra	Сод
C402.7 Derating and Thermal Bridges Methodology that must be used to	C402.5 Air Leakage – Thermal Envelope Air barrier design and testing requirements; maximum allowed air leakage rates.	C402.3 Roottop solar readiness C402.4.6 Fenestration Documentation Allowed methods for determining fenestration performance.	C402.2.8 Requirement for combustion fireplaces	C402.1.5 Component Performance Alternative Maximum area-weighted U-factor of the opaque above grade walls and the maximum Lateror of the glazed wall systems specified in either Section (402.1.5.1 or c402.1.5.2 depending on the percentage of the exertoric wall taken by glazed wall systems; the maximum SHGC of the glazed wall systems.	C401.4.2 Full Space Heating Electrification	C401.4.1 Partial Space Heating Electrification	C40.1.3 The male envelope certification frequirement Acquost thermal envelope certificate with the key performance characteristics of the opaque envelope and fenestration and air leakage testing results.	Code Requirements
Yes	Yes	Yes	Yes	Yes	Note 1	No	Yes	C407.1 Targeted Performance
Yes	Yes	Yes	Yes	Yes	Note 1	Yes	Yes	C407.2 Relative Performance
o o	No	Yes No	No	No	No	No	Yes	C407.3 Passive House
No	No	No No	No	No	No	No	Yes	C407.4 HERS

This table (Pg 17) from DOER Technical Guidance illustrates the IECC amended sections that apply for each compliance pathway

C403 Building Mechanical Systems Yes	C404 Service Water Heating The minimum equipment efficiency and controls; piping insulation.	CedS Electric Power and Lighting Ver- Systems interior and casterior lighting  power and controls; electric metering;  power and controls; electric metering;  transformers; motors; vertical and  bostionial transportation systems and  equipment; voltage drop; automatic  recipiate controls; energy monitoring;  provisions for the electric vehicles ready;  parking spaces.	al Efficiency nts mplement efficiency hieves at least 15 credits.	C408 Maintenance information and System Commissioning Requirements related to systems commissioning, functional testing
			(Note 2)	
No except must meet C403.5 (Economizer) and C403.7 (Exhaust Air Energy Recovery)	No	Yes	(Note 2)	Yes
No	No	Yes	No	Yes
No	No	Yes	No.	Yes

### **Building Electrification**

- This is a new section!
- Projects following Relative Performance paths require partial electrification (25%)
- High Glazed Wall Projects require full electrification – except they can do partial electrification when following Relative Performance path due to high ventilation rate
- All-Electric pathway of the Specialized Code requires full space and water heating electrification (C401.4.3)



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### Building Envelope Thermal Requirements

- Insulation R-Value is no longer permitted.
- Vertical assemblies must meet an area-weighted U-factor
- COMcheck –Web is approved for Prescriptive Compliance
- Thermal Bridging mitigation is required – more on that later
   Table C402.1.4 – Assembly U-Factors
- TALLA COMMENDA DE PRACESSO CONTRACAS DE CONTRACADO CONT



### Component Performance Alternative

- This section allows for more flexible glazing limits.
- Differentiates between low glazed and high glazed wall systems
- Tradeoffs between roof/floors and walls/windows are not allowed.
- "Intra-vertical" tradeoffs are allowed
- Thermal Bridging still must be addressed – more on that later
- Provides U-factor area-weighting for Prescriptive Compliance
- Prepares inputs for Appendix G calculations



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### **Low Glazed Wall System Buildings**

- Glazed Wall System area is not greater than 50% of the abovegrade wall area
- Low Glazed Wall System max.
   allowed area-weighted U-factor is U=0.1285
- Maximum allowed vision glass assembly is U=0.25



#### System Buildings **High Glazed Wall**

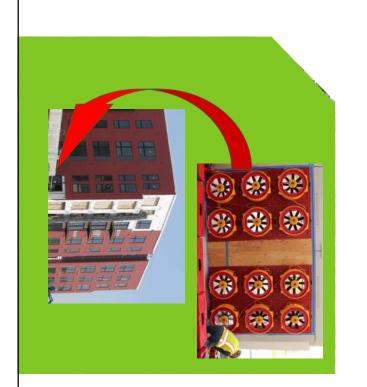
- 0 Glazed Wall System area is greater than 50% of the abovegrade wall area
- 0 High Glazed Wall System max. allowed area-weighted U-factor is U=0.1600
- 0 Maximum allowed vision glass assembly is U=0.25



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#### Air Leakage-Thermal Envelope C402.5)

- ✓ Air Leakage Testing is Mandatory
- √ Tested by approved third party
- Compliance pathways require compliance All Prescriptive and Performance
- Two testing options:
   Whole-building
- Dwelling units
- Options for buildings over 100,000SF
- Max. Allowance: 0.35cfm/SF @
- Group R and I buildings can use a different standard (allowance 0.27 cfm/SF)



### C402.7 Derating and Thermal Bridging

New section – include exterior insulation layers.

Also addressed opaque portions of glazed wall systems

Required for all Prescriptive and Performance paths.

Must include method and selection

Must include method and selections on CDs

Reference: "Building Envelope Thermal Bridging Guide by BC Hydro/BS Housing Research Center)

Look for upcoming course on Thermal Bridging and Derating

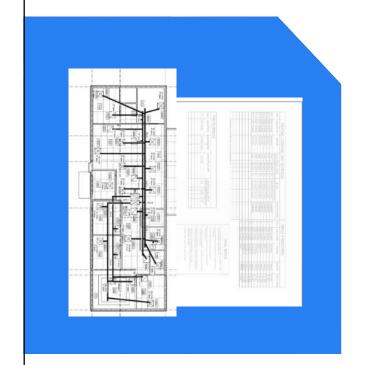


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### **Building Mechanical Systems**

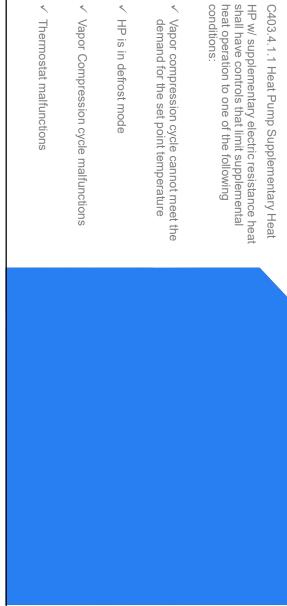
C403.2.1 Zone Isolation Is Required

- Zones >25,000sf in floor area
- ✓ Spanning more than 1story . . .
  Shall be divided into isolated areas
- Each area must be equipped with isolation devices and controls to control the supply of conditioned and exhaust air into the zone.



horized personnel	Exceptions: R1 & R2 occupancies
ia	□ Be capable of transmitting recommendations to authorized personnel
oritized pairs	☐ Automatically provide prioritized recommendations for repairs
d report faults	Automatically identify and report faults
15 min, intervals	☐ Sample performance at 15 min. intervals
alled sensors to	☐ Include permanently installed sensors to monitor performance
	FDD system to include:
of 100,000 sf or	Required on new buildings of 100,000 sf or larger
iagnostics (FDD)	C403.2.3 Fault Detection Diagnostics (FDD)
nanical	Building Mechanical Systems

### **Systems Building Mechanical**

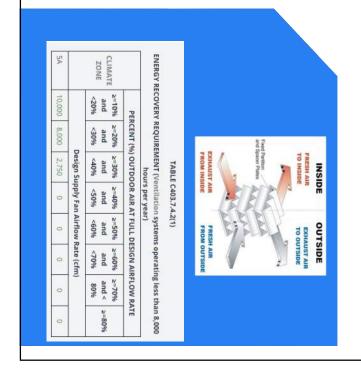


### **Building Mechanical Systems**

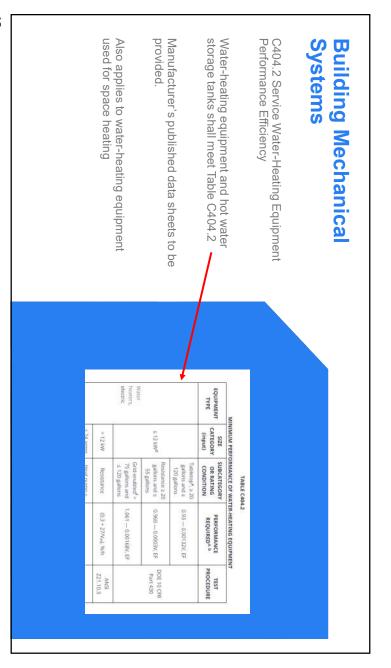
**Energy Recovery Systems** 

Required for:

- Non-transient Dwelling Units
- Enthalpy Recovery Ratio not less than 50% cooling; 75% heating
- Spaces other than Non-transient Dwelling Units
- Required when supply airflow rate of a fan system (dwelling unit) exceeds Tables C403.7.4.2(1) and C403.7.4.2(2)
- Sensible Energy Recovery Ratio at least 50% heating – Class 3 or Class 4 Exhaust
- Enthalpy Recovery Ratio not less than 70% heating & cooling for all other



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# .

## **Lighting for Dwelling Units**

- 90% (min) High Efficacy lighting is required in all permanently installed lighting
- Exception: Appliance lighting

#### High-efficacy light sources:

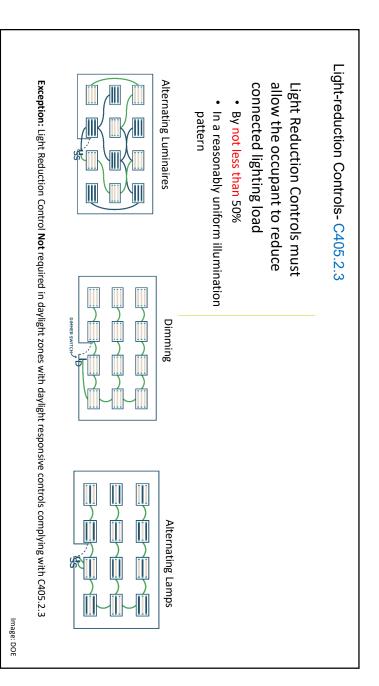
- Lamps with at least 65 lumens per watt
- Luminaires with at least 45 lumens per

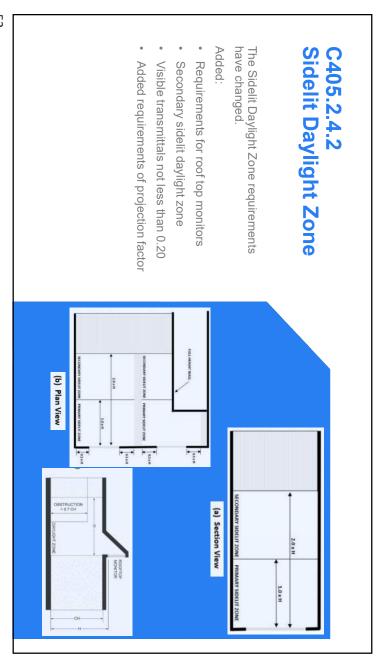
Occupancy Sensor Controls

Required areas added:

- Corridors
- Warehouse Storage Areas
- Must incorporate a manual off switch



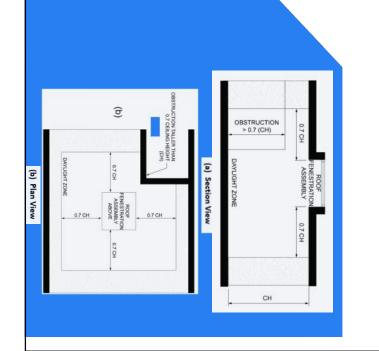




### C405.2.4.3 Toplit Daylight Zone

The toplit daylight zone is the floor area underneath a roof fenestration assembly that complies with all the following:

- To nearest obstruction that is taller than 0.7 times the ceiling height or up to 0.7 times the ceiling ht., whichever is less.
- Direct sunlight is not blocked from hitting the roof fenestration assembly at the peak solar angle on the summer solstice by buildings or geological formations
- The product of the visible transmittance of the roof fenestration assembly and the area of the rough opening of the roof fenestration assembly divided by the area of the toplit zone is not less than 0.008



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### C405.2.8 Parking Garage Lighting Control

Parking garage lighting shall be controlled by an occupant sensor or a time-switch control

- Lighting power to each luminaire shall be automatically reduced by not less that 30% when not activity for 20 minutes
- Lighting zones to be no more than 3600 SF
- Separately control and reduce power by 50% areas with lighting is provided for eye adaptation
- Power to luminaires within 20 feet of the perimeter walls shall have daylight responsive controls to reduce power by at least 50%

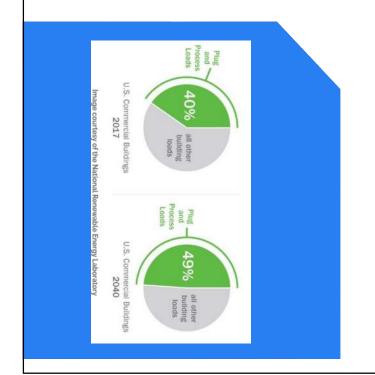


### C405.11 Automatic Receptacle Control

50% of all 125V 15-and 20 amp receptacles installed in:

- Offices
- Conference Rooms
- Rooms used for printing
- Breakrooms
- Classrooms
- Workstations

25% of branch circuit feeder to modular workstations not shown on CDs



55

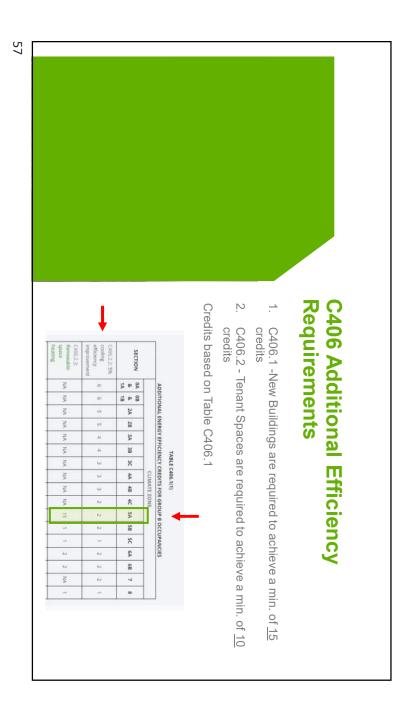
#### C405.12 Energy Monitoring

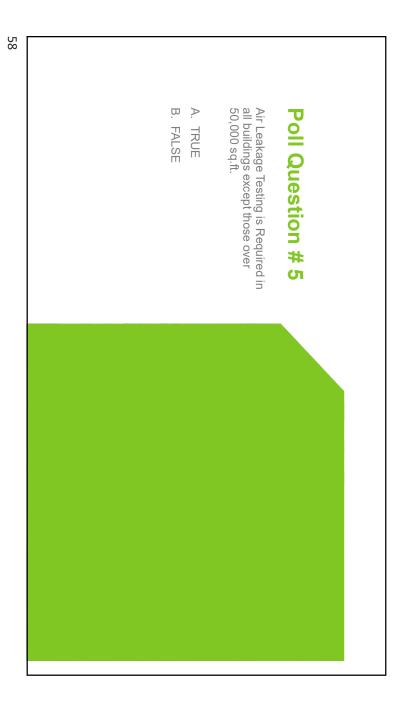
Required in new buildings w/ CFA of ≥25,000 sf

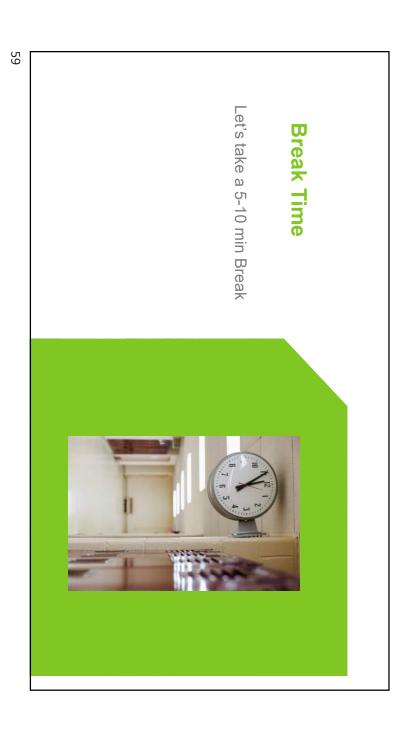
Systems must:

- Measure
- Monitor
- Record
- Report consumption data

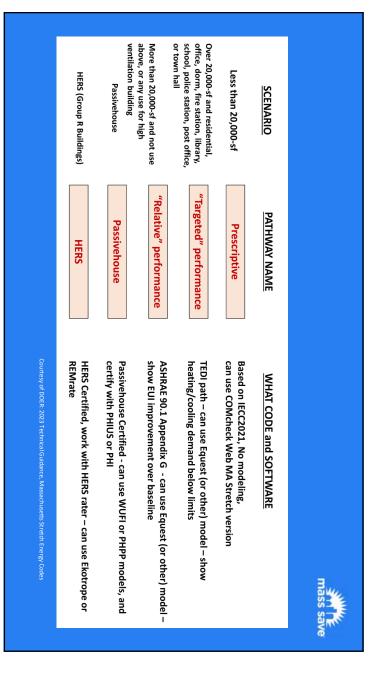


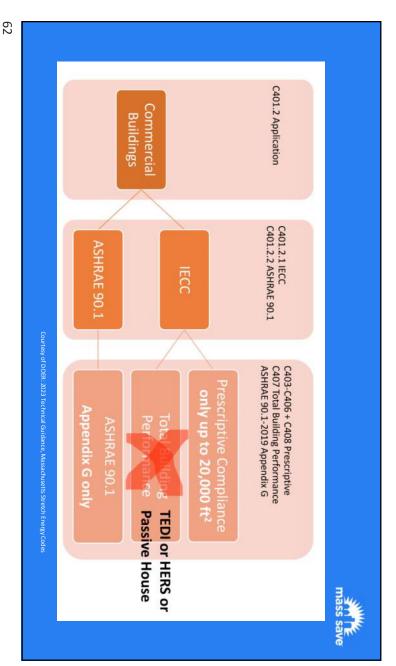


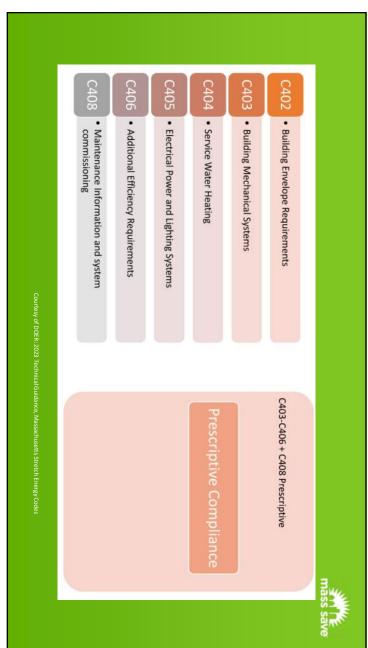


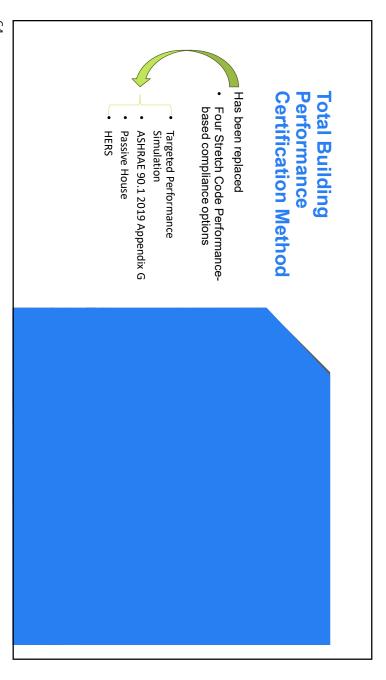


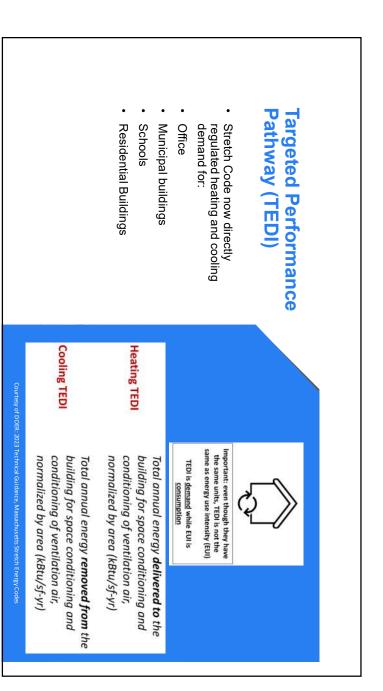
**Compliance Paths** 











TEDI continued ...

""Targeted" performance path

 "Targeted" performance pathway (e.g. "TEDI"), must be used if one of the building use types is over 20,000 sf (12,000 sf for Multi-family)

Multi-family (including dorms)	Office, fire & police station, library, post office, town hall	K-12 school	Building type
2.8-3.2	1.5 - 2.5	2.2-2.4	Heating TEDI limit (kBtu/sf-yr)
15 - 22	21 - 23	12 -20	Cooling TEDI limit (kBtu/sf-yr)

The <u>same models</u> currently used for stretch code compliance also produce TEDI information







sy of DOER: 2023 Technical Guidance, Massachusetts Stretch Energy Codes

#### Appendix G) Pathway (ASHRAE 90.1 **Relative Performance** ☐ Relative Performance Pathway (aka ASHRAE Appendix G): $\hfill\square$ Must size heat pumps for 25% of peak space heating when RPP is used due to high ventilation rate. ☐ Can show site energy use reduction per Table 4.2.1.1 of ASHRAE Ventilated to >0.5 cfm/sf A building occupancy or type other than listed for Targeted Compliance 유

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Until June 30, 2023 Phius+ 2018 HERS 55-65 9th Edition Stretch PHI Classic ASHRAE 90.1-Energy Star 3.1 code 2013 if 5+ stories Commercial Stretch updates July 1, 2023 Timeline: Stretch Code Update for Multi-family Phius Core 2021 Stretch TEDI HERS 52/55/58 PHI Classic ASHRAE 90.1-2019 update Commercial ASHRAE & HERS changes on July 1, 2024 July 1, 2024 Stretch Phius Core 2021 TEDI PHI Classic HERS 42/45 phase-in Residential

#### The project consists of a Dormitory, 35,000 sq. ft. of conditioned floor area. What is the appropriate compliance path? D. ASHRAE 90.1, 2016 Appendix G C. Relative Performance A. Prescriptive Poll Question #6 Targeting Performance

**Existing Buildings** 

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#### Chapter [CE] 5 **Existing Buildings –**

Controls:

 Alteration
 Repair
 Addition
 Change of Occupancy
Of Existing Buildings/Structures

constructed continue as is — as long as lawfully Intent is to allow existing buildings to

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#### **Break Time**

Let's take a 5-10 min Break





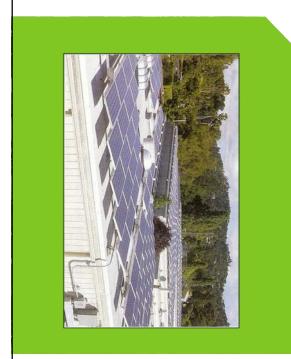
# Appendix CB Solar-Ready Zone Commercial

73

### **Appendix CB**

Appendix CB – Solar-Ready Zone – Commercial

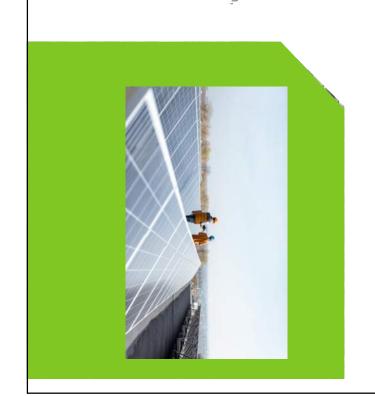
- ☐ Adopted <u>Unamended</u> from 2021 IECC Appendix CB
- Ability to plan ahead
- ☐ Solar-ready zones and roof load documentation helps solar contractors with future installs
- ☐ Easy identification of unobstructed areas
- ☐ Easy identification of pathway to run conduits and wiring



### CB101 Scope

CB101.1 General

 These provisions shall be applicable to new construction, not additions.



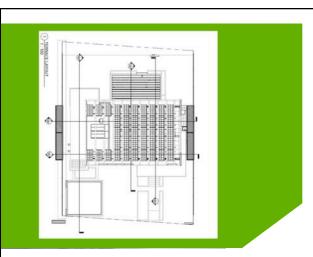
75

### **Section CB102**

General Definition Solar-Ready Zone

 A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar thermal system





# Appendix CB: Solar-Ready Provisions

New in 2021:

Applies to all Commercial and Multifamily Buildings ( >3 stories)

- Solar-Ready Zone roofs of buildings 5 stories and less in height above the grade plane and oriented between 110 degrees and 270 degrees of true north or have low slope roofs
- Solar-Ready Zone Area Total area shall not be less that 40% of the gross roof area. Can be a single area or several smaller areas. Each area must be at least 5' in width.
- Obstructions The Solar ready zone shall be free from obstructions including pipes, vents, ducts, equipment, skylights and roof-mounted equipment. Objects may include taller portions of the building, parapets, chimneys, antennas, signage, trees and roof plantings

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# Appendix CB: Solar-Ready Provisions

- Roof Loads and Documentation Structural design loads shall be indicated on the CDs. A dead load of 5 PSF shall be included in the gravity load calculations.
- Interconnection Pathway CDs shall delineate pathways for routing of conduit or piping the solare-ready zone to the electric service panel
- Electric Energy Storage System-Ready Area the floor area share not be less than 2' x 4'. The locations and layout shall be depicted on the CDs
- Electric Service Reserved Space the main electric service panel shall have a reserved space to allow installation of a dualpole breaker
- Construction Documentation Certificate a permanent certificate showing the solar-ready zone, the structural loading, the interconnection pathway is to be posted by the electrical distribution panel

### A. TRUE. B. FALSE Renovations of an existing building requires identification of a solar ready zone Poll Question #7

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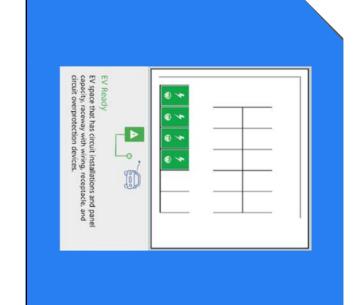
80 **EV Ready** 

### EV Ready Parking Spaces

("EV Ready Spaces")

EV Ready Spaces shall be provided in accordance with Table C405.13

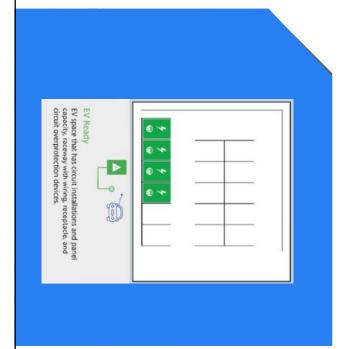
- AC Level II spaces
- The dedicated branch circuit shall be identified as "EV READY" in the service panel or subpanel directory, and the termination location shall be marked as "EV READY."
- The circuit shall terminate in a NEMA receptacle, outlet or a Society of Automotive Engineers (SAE) standard J1772 electrical connector.



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### **EV Ready Parking Spaces**

- Automatic Load Management System (ALMS) can be used to service multiple spaces using a higher amperage circuit
- CDs to show details and calculations
- EV Spaces are required for a compliance paths.



### **EV Ready Spaces**

# Table C405.13 EV Ready Space Requirements

Occupancy Classification Group	Minimum percentage of EV-Ready Spaces	EV Charging Performance Requirements
Group R and Group B	At least 20% of spaces	40-amp dedicated branch circuit or larger branch circuit with ALMS in accordance with Table C405.13.1
All other Occupancies	At least 10% of spaces	40-amp dedicated branch circuit or larger branch circuit with ALMS in accordance with Table C405.13.1

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## Poll Question #8

Automatic Load Management System (ALMS) can be used to service multiple spaces using a higher amperage circuit.

A. TRUE

B. FALSE

## Specialized Stretch Code 2023 Appendix CC Massachusetts Municipal Opt-In



225 CMR 23: MASSACHUSETTS COMMERCIAL STRETCH ENERGY CODE AND MUNICIPAL OPT-IN SPECIALIZED CODE 2023

APPENDIX CC - MASSACHUSETTS MUNICIPAL OPT-IN SPECIALIZED ENERGY CODE 2023

# COMMERCIAL BUILDING PROVISIONS

adopted by a city or town together with the Residential Specialized code Appendix RC as their stretch energy code. When adopted by the local municipality, the provisions in this appendix are mandatory in adopting ordinance. The provisions contained in this appendix together with referenced sections from the Stretch energy code constitute the Specialized opt-in code for commercial buildings, and may be The provisions contained in this appendix are not mandatory unless specifically referenced in the combination with the IECC2021 with Massachusetts Stretch code amendments.

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#### Compliance



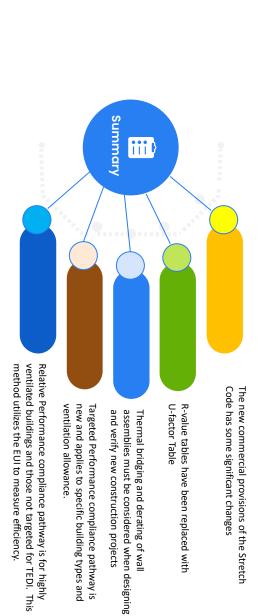
New Buildings Shall Demonstrate Compliance:

- Zero Energy Pathway
- All-Electric Pathway
- Mixed Fuel Pathway





**Commercial Overview Summary** 







# mmercial New Construction or Major Renovation Program

Choose Your Path to Generate Energy Savings and Reduce Carbon

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# here is a Pathway for Every Project

Mass Save Sponsors offer the highest incentives for projects with the lowest EUIs and greatest levels of decarbonization

Path 1, Net Zero and Low EUI Buildings (10,000 sf or greater)  Receive expert net zero building technical assistance and the highest new construction/major renovation project incentives available. Set an ultra-low EUI and save. We provide	Path 2, Whole Building Energy Use Intensity (EUI) Reduction Approach (50,000 sf or greater)  In this path for larger, complex building projects, your incentives will be greater with the lowest design EUIs. We offer technical support and energy modeling	Path 2, High Performance Buildings For whole building projects of any size where customers do not wish to set and pursue an EUI target, projects that are not whole buildings (e.g., tenant fit outs, open buildings (e.g., tenant fit)
ultra-low EUI and save. We provide support through a post occupancy	support and energy modeling services to help you succeed	buildings (e.g., tenant fit outs, open air parking garages), projects that
period to help you make sure the building performs at the level you		are process-load heavy buildings (e.g., cannabis, industrial), and
expect		projects where customers are only interested in one-off measures.

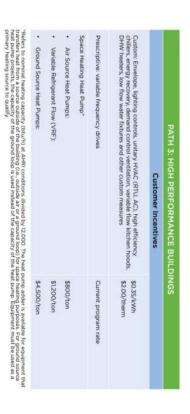
# **Summary of Path Incentives**





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# **Summary of Path Incentives**



Go to masssave.com/en/business/programs-and-services/new-construction-and-major-renovations to learn more about the pathways.

# Mass Save Incentive Programs



## Residential Rebates and Incentives

Rebates for appliances, heating systems and more.



www.masssave.com/en/residential/rebates-and-incentives

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## **High-Rise Path Overview**

#### Eligibility

- 4+ stories and 5+ units with residential-metered heat
- All multi-family with commerciallymetered heat
- New construction and ≥ 50% rehab projects
- Must register prior to construction start

#### Enrollment process

- Work with a dedicated ICF Account Manager
- Verification completed utilizing architect and/or engineer approved submittals



## **Available Incentives**

- Provides incentives for both residential in-unit and common area energy savings.
- Building Envelope
- Domestic Hot Water Production
- HVAC Systems
- Motors & Drives
- Lighting & Controls
- Plumbing Fixtures
- And more

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## **Energy Code Support**

# Questions about the energy code?





## **Energy Code Support Hotline:**

855-757-9717

### **Energy Code Support Email:**

energycodesma@psdconsulting.com

