2022 Energy Code

Single-Family Lighting Requirements

California Energy Commission

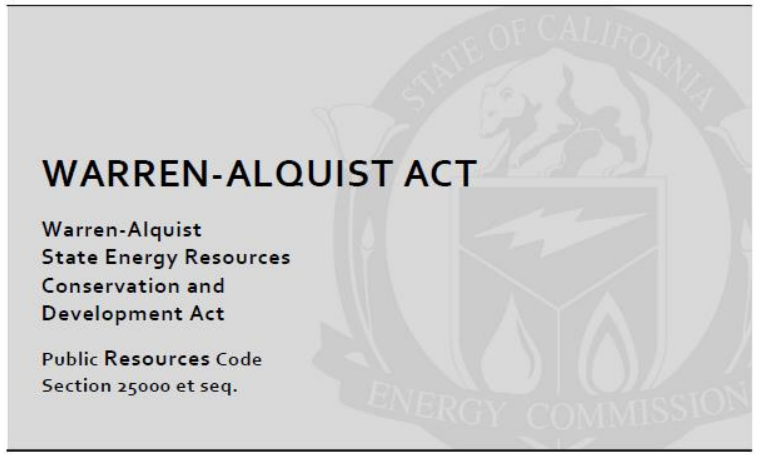
March 2023

Agenda

- 2022 Energy Code basics
- Single-family requirements
  - Administrative and Light Source
  - Mandatory
  - Additions and alterations
- Resources

2022 Energy Code Basics

Energy Code History

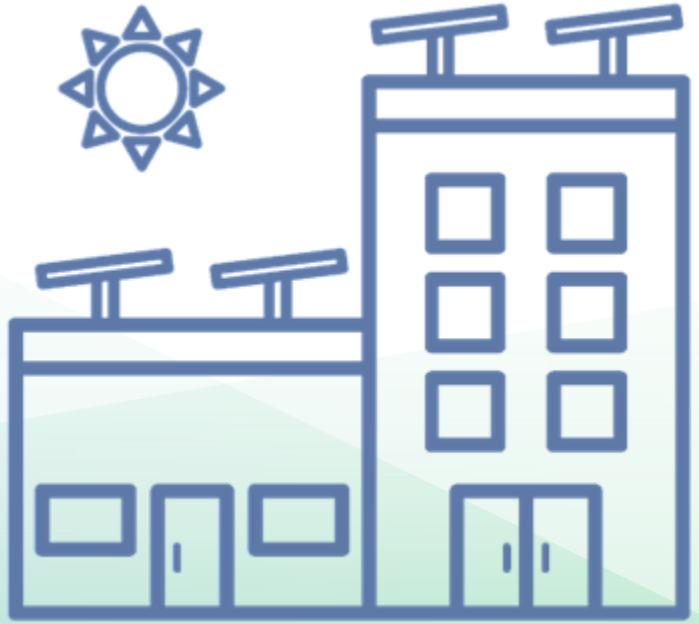


Warren-Alquist Act established CEC in 1974

- Authority to develop and maintain Building Energy Efficiency Standards (Energy Code)
- Requires CEC to update periodically, usually every 3 years
- Requires Energy Code to be cost-effective over economic life of building

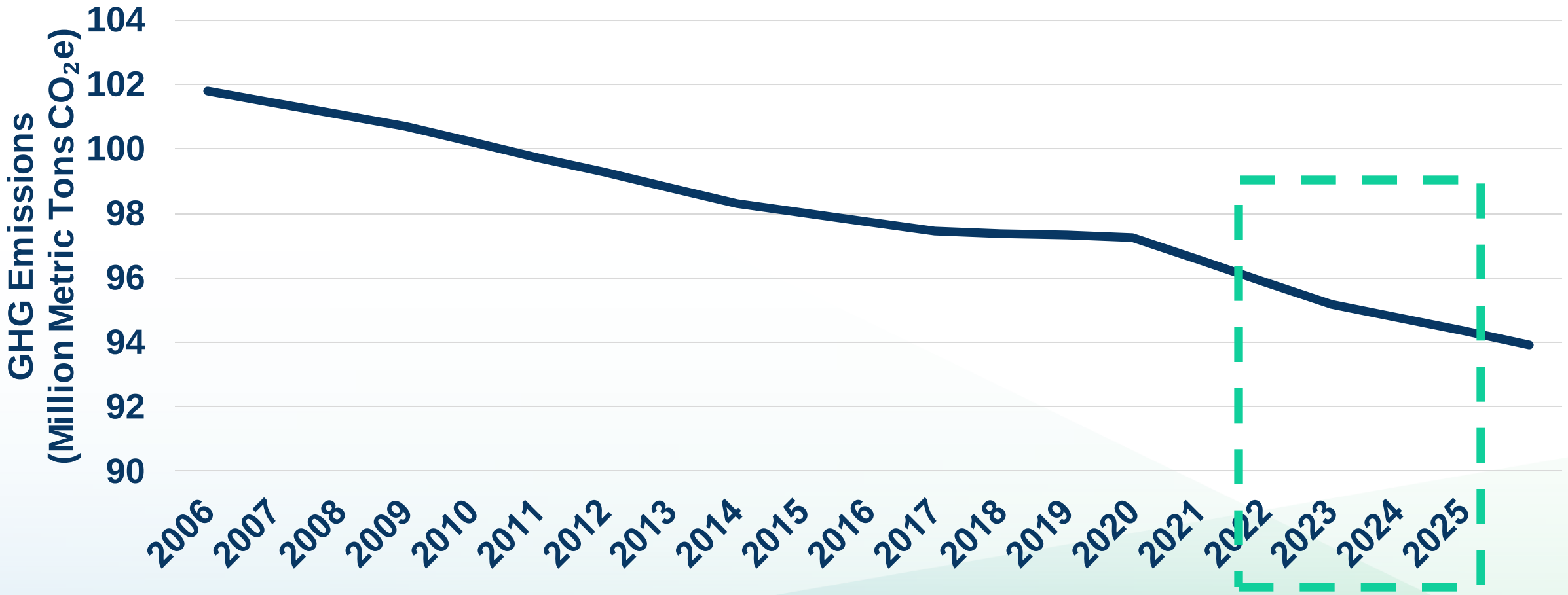
2022 Energy Code Goals

- Increase building energy efficiency cost-effectively
- Contribute to California's GHG reduction goals
- Enable pathways for all-electric buildings
- Reduce residential building impacts on the electricity grid
- Promote demand flexibility and self-utilization of PV
- Provide tools for local government reach codes



Energy Code Environmental Benefit

Reduced Statewide Emissions

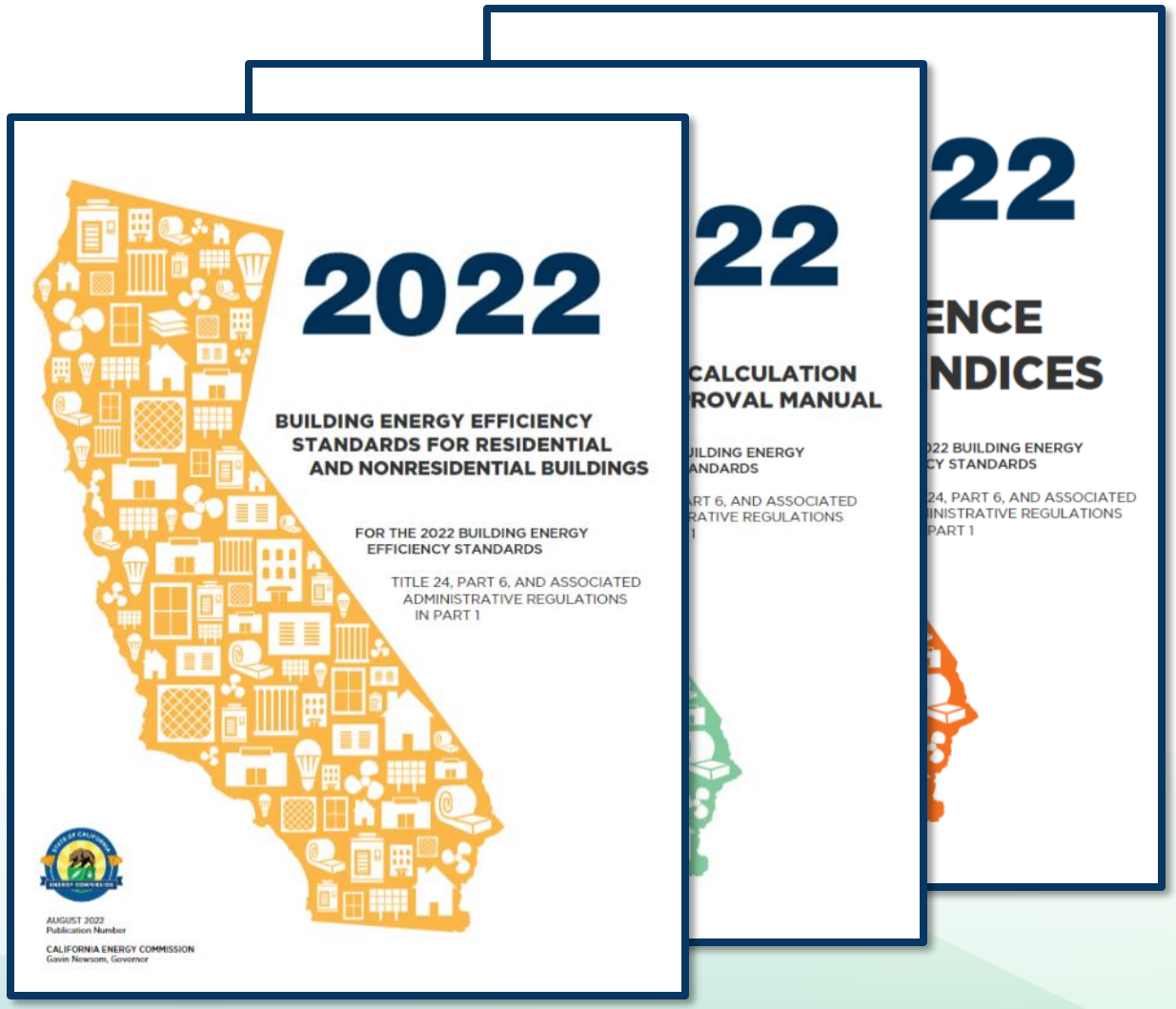


Source: CEC Impact Analysis 2005, 2008, 2013, 2016, 2019, 2022

2022 Energy Code

Effective January 1, 2023

- Building permit applications submitted on or after Jan 1, 2023
- Must use 2022 tools:
  - Software
  - Forms

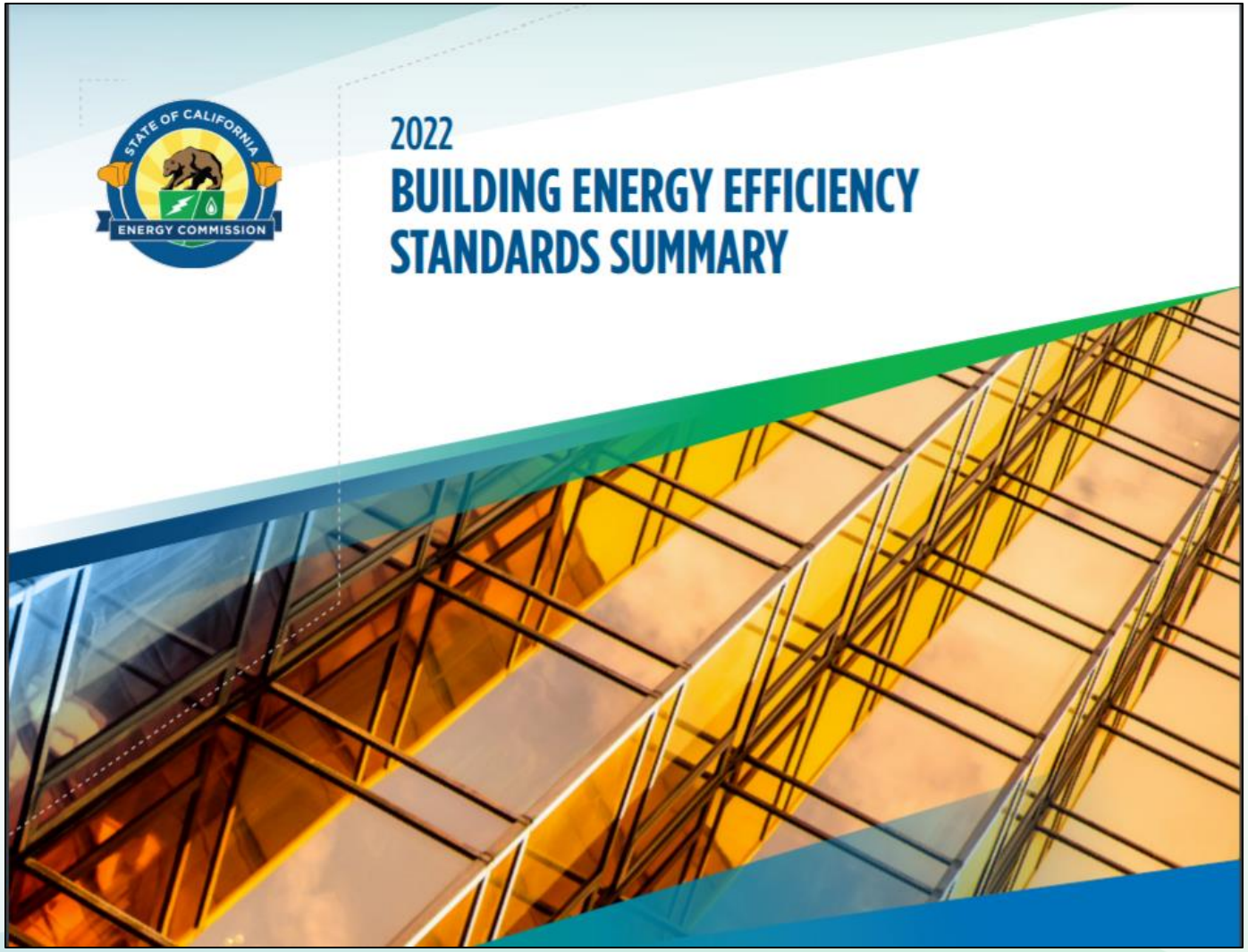


2022 Documents Online

- Energy Code
- Reference Appendices
- Compliance Manuals
- Software
- Forms

2022 Energy Code Highlights

- Heat pump baselines
- Solar and battery storage
- Ventilation requirements
- Lighting
- Multifamily restructuring



Energy Code Requirements

Mandatory requirements

- Minimum efficiency requirements must always be met
- Can never trade-off

Prescriptive requirements

- Predefined efficiency requirements
- May supersede mandatory requirements
- Different requirements for newly constructed buildings, additions, and alterations

Compliance Approaches

Prescriptive approach

- Simple approach, no trade-offs
- Defines the standard building design
- New 2022 heat pump baselines

Performance approach

- Most flexible approach, allows for trade-offs
- Must meet all mandatory requirements
- Requires the use of CEC-approved energy modeling software
- Proposed building design meets or exceed standard building design

2022 Performance Metrics

New for 2022

Energy performance calculations

- Single-family
  - EDR1: hourly source energy
  - EDR2: time dependent valuation (TDV)
    - Efficiency EDR2, PV + flexibility EDR = total EDR2

Demonstrating Compliance

- **Compliance forms confirm Energy Code is met**

Updated for 2022

- Completed by responsible party
  - Designers, consultants, builders, contractors, technicians, HERS raters, etc.
- Submitted to enforcement agencies for verification

Type of form	Single-family	Multifamily 3 or less habitable stories	Nonresidential Multifamily 4 or more habitable stories
Certificate of compliance	CF1R	LMCC	NRCC
Certificate of installation	CF2R	LMCI	NRCI
Certificate of verification	CF3R	LMCV	NRCV
Certificate of acceptance	-	-	NRCA

Forms Registration and Certification

All Buildings § 10-103

Updated for 2022

Multifamily buildings 3 or fewer habitable stories

- When HERS verification is required all LMCC, LMCI, and LMCV forms must be registered with HERS provider data registry

Multifamily buildings 4 or more habitable stories

- NRCV must be registered with HERS provider when required
- When lighting or mechanical acceptance test is required all NRCC, NRCI, and NRCA forms must be recorded with ATTCP

2022 Compliance Software

Performance approach must use approved compliance software versions

- Single-Family
  - CBECC-Res 2022.3.0
  - EnergyPro 9.2
  - Right-Energy 2022.2.0

Single-family Defined

All Buildings § 100.1

Updated for 2022

Single-family building

- Occupancy group R-3
  - Two or less dwelling units
  - Not multifamily, hotel, or motel
- Townhouse
- Occupancy group R-3.1
- Occupancy group U on residential site

Administrative and Light Source Requirements

Lighting Schedule §10-103

- Builder must provide interior lighting/lamp schedule
- Include with maintenance info provided to homeowner
- May be provided in paper or electronic format

	Space Information			Existing Fixture			Retrofit Description		
Ref No.	Floor	Room Number	Room Description	Fixture Code	Fixture Type	QTY	Retrofit Description	QTY	Notes from Auditor, Etc.
1	1	110	Office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	6	2F17TBXL with GE Ultrastart program start ballast	6	
2	1	100A	Entrance/Hallway	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	2	2F17TBXL with GE Ultrastart program start ballast	2	Office currently vacant.
3	1	100B	Waiting Area	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	6	2F17TBXL with GE Ultrastart program start ballast	6	Reception area, may not want occupancy sensors if a way to turn off lights during off hours.
4	1	100C	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	2	2F17TBXL with GE Ultrastart program start ballast	2	
5	1	100D	Open office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	13	2F17TBXL with GE Ultrastart program start ballast	13	
6	1	100E	Storage	V	2x2 troffer or surface mount with 2 FB34T12 lamps	2	2F17TBXL with GE Ultrastart program start ballast & 2-cove white reflector	2	Both fixtures have U-bulbs. (only U-bulbs in building)
7	1	105A	Open office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	18	2F17TBXL with GE Ultrastart program start ballast	18	
8	1	105B	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	3	2F17TBXL with GE Ultrastart program start ballast	3	
9	1	105C	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	2	2F17TBXL with GE Ultrastart program start ballast	2	
10	1	120A	Storage	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	1	2F17TBXL with GE Ultrastart program start ballast	1	
11	1	120B	Open Office with high partitions	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	13	2F17TBXL with GE Ultrastart program start ballast	13	
12	1	130A	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	3	2F17TBXL with GE Ultrastart program start ballast	3	
13	1	130B	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	3	2F17TBXL with GE Ultrastart program start ballast	3	
14	1	130C	Private office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	2	2F17TBXL with GE Ultrastart program start ballast	2	
15	1	130D	Open office and reception area	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	30	2F17TBXL with GE Ultrastart program start ballast	30	Reception area, may not want occupancy sensors, unless some way to turn lights off during off hours.
16	1	130E	Conference Room	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	6	2F17TBXL with GE Ultrastart program start ballast	6	
17	1	130F	Hallway	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	3	2F17TBXL with GE Ultrastart program start ballast	3	
18	1	130G	Open office	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	30	2F17TBXL with GE Ultrastart program start ballast	30	
19	1	130H	Storage	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	6	2F17TBXL with GE Ultrastart program start ballast	6	
20	1	130I	File Storage	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	6	2F17TBXL with GE Ultrastart program start ballast	6	
21	1	130J	Storage	A	2x2 lensed troffer with 2 F17T8s, .88 BF S ballast & specular reflector	4	2F17TBXL with GE Ultrastart program start ballast	4	
22	1	141	Lunch/Waiting Area with tables	ASM	2x2 lensed surface mount with 2 F17T8s, .88 BF IS ballast & specular reflector	11	2F17TBXL with GE Ultrastart program start ballast	11	Area has no room number, arbitrarily assigned
23	1	142	Hallway	K	3 corridor wrap with 2 F25T8s & white lens	5	1F17TBC, custom centering kit & clear prismatic lens	5	Area has no room number, arbitrarily assigned; hallway has occupancy sensor
24	1	143	Break Room	H	4' wrap around with 2 F32T8s	1	1F32TBC & centering kit	1	Area has no room number, arbitrarily assigned; room has local manual switch
25	1	143	Break Room	H8	8' wrap around with 4 F32T8s	2	2F32TBC & centering kits	2	Area has no room number, arbitrarily assigned; room has local manual switch
26	1	144	Restroom	E	1x4 troffer with 2 F32T8s	2	1F32TBC & 1-cove white reflector	2	Area has no room number, arbitrarily assigned; restroom has occupancy sensor
27	1	145	Storage	J	4' wrap around with 3 F32T8s	2	2F32TBS in center lamp holders	2	Area has no room number, arbitrarily assigned; room has local manual switch
28	1	146A	Mail Room	J	4' wrap around with 3 F32T8s	2	2F32TBS in center lamp holders	2	Area has no room number, arbitrarily assigned; room has local manual switch
29	1	146A	Mail Room	J8	8' wrap around with 6 F32T8s	1	4F32TBS in center lamp holders	1	Area has no room number, arbitrarily assigned; room has local manual switch
30	1	146B	Storage	J8	8' wrap around with 6 F32T8s	2	4F32TBS in center lamp holders	2	Area has no room number, arbitrarily assigned; room has local manual switch
31	1	146C	Private office	J	4' wrap around with 3 F32T8s	2	2F32TBS in center lamp holders	2	Area has no room number, arbitrarily assigned; room has local manual switch
32	1	147A	Office/Workshop	G8	8' hooded industrial with 4 F32T8s	2	2F32TBC ie alternating sides	2	Area has no room number, arbitrarily assigned; room has local manual switch
33	1	147A	Office/Workshop	G8TG	8' hooded industrial with 4 F32T8s & tube guards	2	2F32TBC ie alternating sides & tube guards	2	Area has no room number, arbitrarily assigned; room has local manual switch
34	1	147A	Office/Workshop	R	4' strip fixture with 1 F32T8	1	1F32TBL	1	Area has no room number, arbitrarily assigned; light rarely turned on
35	1	148A	Storage/Old Cafeteria	ASM	2x2 lensed surface mount with 2 F17T8s, .88 BF IS ballast & specular reflector	8	2F17TBXL with GE Ultrastart program start ballast	8	Area has no room number, arbitrarily assigned; room has local manual switch
36	1	148A	Storage/Old Cafeteria	J	4' wrap around with 3 F32T8s	3	2F32TBS in center lamp holders	3	Area has no room number, arbitrarily assigned; room has local manual switch
37	1	148B	Open Storage	G8TG	8' hooded industrial with 4 F32T8s & tube guards	3	2F32TBC ie alternating sides & tube guards	3	Area has no room number, arbitrarily assigned; room has local manual switch
38	1	148B	Open Storage	G4TG	4' hooded industrial with 2 F32T8s & tube guards	2	1F32TBC ie right or left lamp holders & tube guard	2	Area has no room number, arbitrarily assigned; room has local manual switch
39	1	148C	Storage Closet	J	4' wrap around with 3 F32T8s	1	2F32TBS in center lamp holders	1	Area has no room number, arbitrarily assigned; room has local manual switch
40	1	149A	Trash Area	G8TG	8' hooded industrial with 4 F32T8s & tube guards	1	2F32TBC ie alternating sides & tube guards	1	Area has no room number, arbitrarily assigned; room has local manual switch
41	1	149B	Electric Meter Room	G8TG	8' hooded industrial with 4 F32T8s & tube guards	2	2F32TBC ie alternating sides & tube guards	2	Area has no room number, arbitrarily assigned; room has local manual switch
42	1	149C	Gas Meter Room	W	explosion proof fixture wth assumed 75W A19 incandescent	1	no retrofit	0	Area has no room number, arbitrarily assigned; room has local manual switch; Light fixture is a single incandescent bulb in an explosion proof fixture.
43	1	150	Elevator Room	H8	8' wrap around with 4 F32T8s	2	2F32TBC & centering kits	2	Area has no room number, arbitrarily assigned; room has local manual switch
44	1	151	Elevator Pit Access	R	4' strip fixture with 1 F32T8	1	1F32TBL	1	Area has no room number, arbitrarily assigned
45	1	1At	Atrium- S Stairwell Entrance	T	exit sign with 2 F8T5 lamps	1	new universal mount green LED exit sign with battery backup	1	Area has no room number, arbitrarily assigned
46	1	1At	Atrium- N Stairwell Entrance	U	exit sign with 2 F8T5 lamps	1	new universal mount green LED exit sign with battery backup	1	Area has no room number, arbitrarily assigned
47	1	1At	Atrium- Elevator Entrance	M	recessed can with 70W HPS (interior)	2	new 2x2 surface mount fixture with angled interior sides, clear prismatic lens & 2F17TBC	2	Area has no room number, arbitrarily assigned
48	1	1At	Atrium Area	B	1x4 parabolic troffer with 1 F32T8	15	1F32TBL	15	Area has no room number, arbitrarily assigned
49	1	1At	Atrium Area	B12	1x12 parabolic troffer with 3 F32T8s	12	3F32TBL	12	Area has no room number, arbitrarily assigned
50	1	1At	Atrium Area	B8	1x8 parabolic troffer with 2 F32T8s	3	2F32TBL	3	Area has no room number, arbitrarily assigned; restrooms have occupancy sensor

Luminaire Efficacy §150.0(k)1A

All luminaires or light sources must be high efficacy

Luminaire efficacy is determined by TABLE 150.0-A; must meet one of the following:

- Column 1: Types that are automatically high efficacy
- Column 2: Certified as meeting Joint Appendix 8 requirements

Luminaire Efficacy Cont.

Exceptions to 150.0(k)1A:

- Lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers
- Night lights, step lights, and path lights less than 5 watts
- Lighting internal to drawers, cabinetry, and linen closets with efficacy ≥ 45 lumens per watt

Luminaire Efficacy Continued: Table 150.0-A

Automatically High Efficacy	Must be JA8 Certified
LED light sources installed outdoors.	All light sources installed in ceiling recessed downlight luminaires (screw-based sockets not allowed).
Inseparable solid state lighting luminaires containing colored light sources installed for decorative lighting.	Any light source not listed in this table.
Pin-based linear fluorescent or compact fluorescent light sources using electronic ballasts.	
High intensity discharge light sources including pulse start metal halide and high pressure sodium.	
Luminaires with hard-wired high frequency generator and induction lamp.	
Ceiling fan light kits subject to federal appliance regulations.	

Joint Appendix 8 Requirements

Category	Requirements
Color Rendering Index (CRI)	≥ 90
Luminous Efficacy	≥ 45 lumens per watt
Power Factor	≥ 0.90 at full output
Start Time	Turn on within 0.5s
Correlated Color Temperature (CCT)	Inseparable SSL light engines & GU24 LED lamps: ≤ 4000K Others: ≤ 3000K

Joint Appendix 8 Requirements Cont.

Category	Requirements
R9	> 50
Minimum Dimming Levels	≤ 10%
Flicker	< 30% for frequencies of 200 Hz or below
Audible Noise	< 24 dBa at 1 meter from light source
Marking	JA8-2022 or JA8-2022-E

§150.0(k)1B Screw Base Luminaires

Shall contain lamps that comply with JA8 and the lamp and light source is JA8 certified:

- Manufacturer marking
- Listing in the MAEDBS

§150.0(k)1C Recessed Downlights

- Cannot have a screw base socket
- Must have a label certifying airtight
- Must be sealed with gasket or caulk, or be installed per manufacturer's instructions
- Must meet clearance and installation requirements of California Electrical Code 410.116

§150.0(k)1D Enclosed and Recessed Luminaires

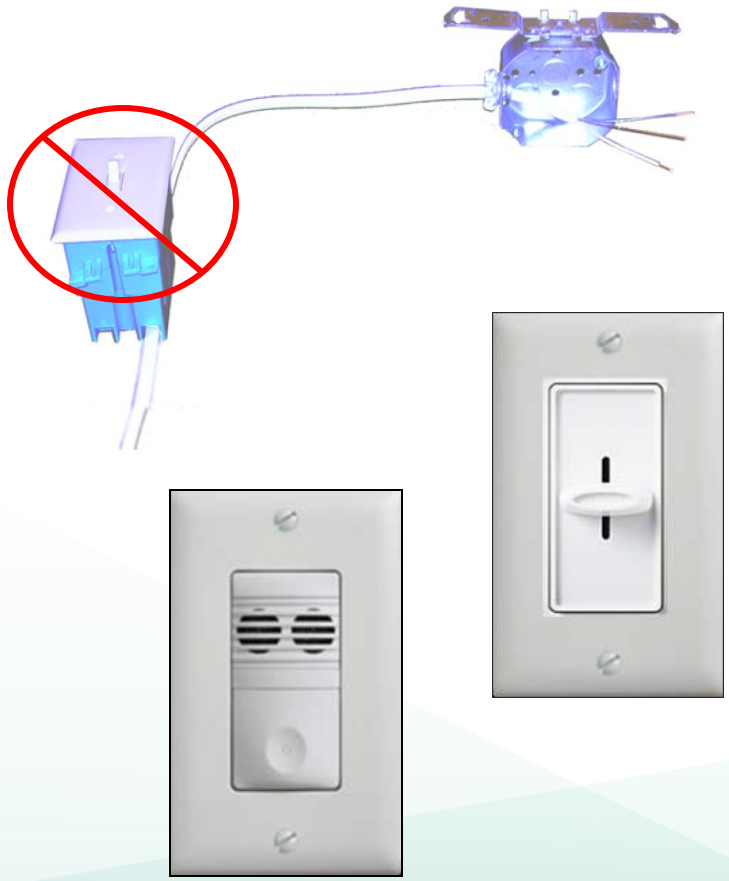
Lamps and separable light sources

- Must comply with JA8 elevated temperature requirements
- Must be marked “JA8-XXXX-E”

§150.0(k)1E Blank Electrical Boxes

Blank electrical boxes more than 5 feet above the floor

- Number may be no greater than total number of bedrooms
- Must be served by a dimmer, vacancy sensor, low voltage wiring, or fan speed control



Indoor Lighting Controls

Lighting Control Types

Lighting Control Type	What does it do?
Dimmer	• Varies brightness by changing power delivered to the system
Occupant Sensor (indoor and outdoor)	• Auto-off when area vacated • Auto-on when area occupied
Vacancy Sensor	• Auto-off when area vacated • Manual-on
Photo Control	• Auto-on/-off based on available daylight
Astronomical Time-Switch Control (outdoor)	• Controls light based on time of day • Based on astronomical events like sunset, sunrise; accounts for geographic location & calendar date

§150.0(k)2 Indoor Lighting Controls

A. Must have readily accessible wall-mounted manual on/off controls (ceiling fans may provide control of integrated lighting via remote control)

B. May not bypass dimmer, occupancy sensor, or vacancy sensor installed to comply with §150.0(k)

C. Must comply with applicable requirements of §110.9

D. Energy Management Control Systems or multi-scene programmable controls may be used to meet control requirements

§150.0(k)2 Indoor Lighting Controls Cont.

E. Automatic Off Controls

i. Bathrooms, garages, laundry rooms, utility rooms, and walk-in closets: At least one luminaire controlled by occupancy or vacancy sensor.

ii. Lighting internal to drawers and cabinetry with opaque fronts or doors: Controls that turn light off when the drawer or door is closed shall be provided.

§150.0(k)2 Indoor Lighting Controls Cont.

F. Dimming Controls
   i. Lighting in habitable spaces must have readily accessible wall-mounted dimming controls.
   ii. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.

Exceptions to 150.0(k)2F:

1. Ceiling fan lighting may be controlled with remote control
2. Luminaires connected to circuit with lighting power < 20 watts or controlled by occupancy or vacancy sensor.
3. Navigation lighting < 5 watts
4. Lighting internal to drawers and cabinetry with opaque fronts or doors with automatic-off controls

§150.0(k)2 Indoor Lighting Controls Cont.

G. Independent Controls
   i. Lighting integrated in an exhaust fan must be controlled independently from the fan.
   ii. The following must be controlled separately from ceiling-installed lighting:
      i. Under-cabinet lighting.
      ii. Under-shelf lighting.
      iii. Interior lighting of display cabinets.
      iv. Switched outlets.

Outdoor Lighting and Controls

§150.0(k)3A Outdoor Lighting Attached to Building

- Must meet high efficacy requirements from §150.0(k)1A
- Must have manual on/off and one of the following:
  - Photocell and either motion sensor or automatic time switch control
  - Astronomical time clock control
- Controls that override to on must return to normal operation within 6 hours.

§150.0(k)4 Internally Illuminated Address Signs

Internally illuminated address signs must meet either of the following:

- Comply with §140.8 (nonresidential sign lighting), or
- Consume no more than 5 watts

§150.0(k)5 Garages for Eight or More Vehicles

- Meet applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 141.0, and 140.6.

Additions and Alterations

§150.2(a) and (b) Additions and Alterations

- Altered lighting systems must meet requirements in §150.0(k).
- Altered luminaires must meet luminaire efficacy requirements in §150.0(k) and Table 150.0-A.
- Existing screw based sockets in ceiling recessed luminaires can stay; need to install new JA8-compliant trim kits or lamps designed for use with recessed downlights or luminaires.

Resources

Online Resource Center

www.energy.ca.gov/orc

Handouts

- Fact sheets
- Guides

Tools

- Checklists
- Blueprint newsletter

Training

- Presentations
- Videos

Links

- Internal resources
- External resources

New Resource Hub

Homeowners and renters

- Information about water and space heating, cooking, EV charging, incentives

Contractors

- Information about training, tools, incentives

Local government representatives

- Information about model policies, permitting, training, incentives

Links on the Building and Home Energy Resource Hub

HERS Program

HERS Program information

CalCERTS, Inc. HERS PROVIDER	CHEERS
• Newly constructed buildings • Additions • Alterations of residential and nonresidential buildings • California whole-house home energy ratings • HERS building performance contractors	• Newly constructed buildings • Additions • Alterations of residential and nonresidential buildings

Blueprint Newsletter

Energy Code quarterly newsletter

- Updates
- Clarifications
- Frequently asked questions

Issue 138 | April - June 2022

BLUEPRINT

CALIFORNIA ENERGY COMMISSION

EFFICIENCY DIVISION

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- 2022 Energy Code: Compliance Software
- 2019 Energy Code: HERS Verifications
- Q&A
  - Solar PV for Multifamily Buildings
  - Multifamily Water Heating
  - Multifamily Common Use Areas

For additional help with the Energy Code see Energy Code Ace's **online offerings** of trainings, tools, and resources.

2022 Energy Code: Multifamily Summary

The 2022 Building Energy Efficiency Standards (Energy Code) reorganizes low-rise (three or fewer habitable stories) and high-rise (four or more habitable stories) multifamily buildings into one building type, updates the multifamily buildings definition in § 100.1, and moves all requirements for multifamily buildings to §§ 160.0-180.4. This and other significant changes include:

Mandatory Requirements

- Updates minimum efficiencies for HVAC equipment; adds minimum efficiency requirements for dedicated outdoor air systems (DOAS), heat pump, and heat recovery chiller packages. § 110.2
- Changes demand responsive lighting controls trigger to 4,000 watts or more; adds requirements for controlled receptacles. §§ 110.12, 160.5(b)4E
- Unifies envelope insulation, vapor retarder, and fenestration requirements. § 160.1
- For dwelling units
  - Adds requirements for central fan integrated ventilation systems requiring a motorized controlled damper, damper controls, and variable ventilation. § 160.2(b)2Aii
  - Requires vented kitchen range hoods ventilation rates or capture efficiencies based on conditioned floor area and fuel type per Tables 160.2-E, F, G. § 160.2(b)2Avic2
  - Requires a HERS-verified maximum fan efficacy of 1.0 Watts per cfm for heat recovery ventilation (HRV) and energy recovery ventilation (ERV) systems. § 160.2(b)2Biii
  - Adds mechanical acceptance testing requirements. § 160.3(d)2
  - Adds electric-ready requirements when gas equipment is installed for space heating, cooking, and clothes dryers. § 160.9(a-c)

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- Subscribe to Efficiency Division emails
  - Appliances
  - Blueprint
  - Building Standards
- Respond to confirmation email

Follow the California Energy Commission

Energy Code Hotline

Monday through Friday

- 8:00 a.m. to 12:00 p.m.
- 1:00 p.m. to 4:30 p.m.

Call

- 800-772-3300 in CA
- 916-654-5106 outside CA

Email

- Title24@energy.ca.gov

Energy Code Ace

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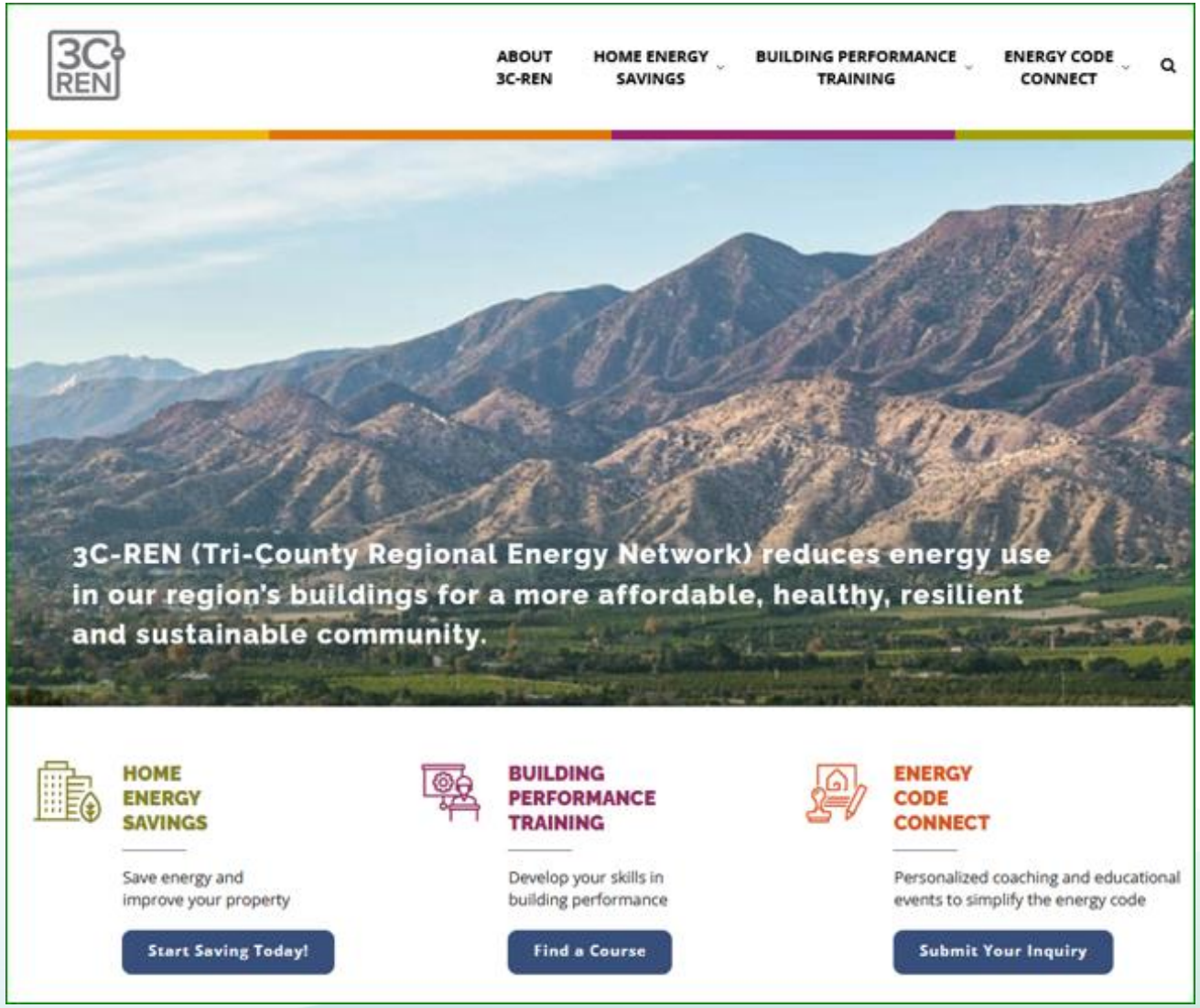
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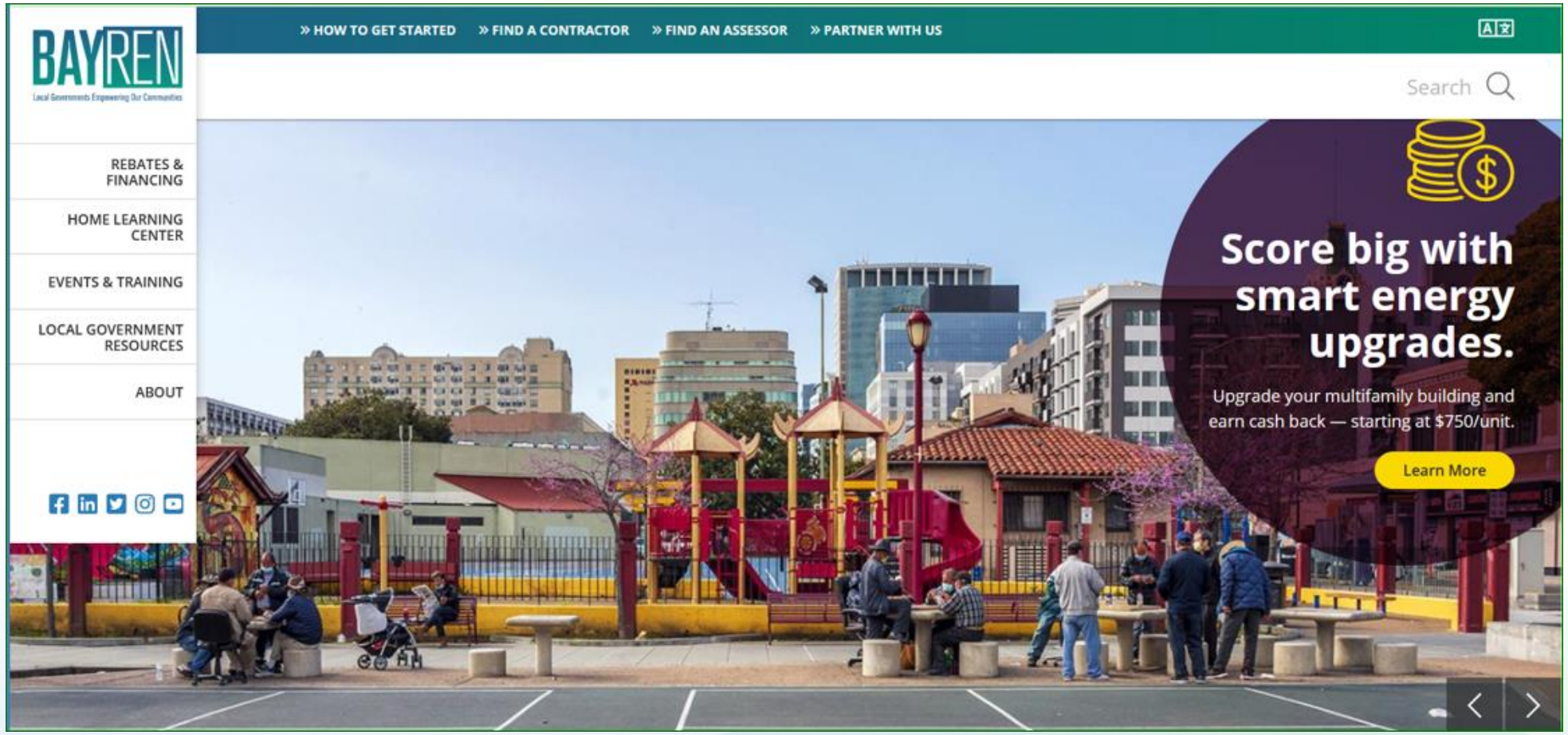
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Inland Regional Energy Network (I-REN)

iren.gov
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Codes and Standards

Training and Education Program

- Free ICC-approved training sessions for 2022 Energy Code (Title 24, Part 6) requirements → www.iren.gov/161/CS-Trainings
- Requested training courses can also be scheduled

C&S Technical Support Program

Request Free Technical Assistance from Local Code Experts—Reach Code Development, Permit Guides, Etc. → www.iren.gov/162/CS-Technical-Support

Ask a Code Mentor an Energy Code Question

Submit queries online and receive a personalized response addressed by energy code experts within two business days! → www.iren.gov/162/CS-Technical-Support

I·REN = CVAG

INLAND REGIONAL ENERGY NETWORK

Coachella Valley Association of Governments (CVAG)
San Bernardino Council of Governments (SBCOG)
Western Riverside Council of Governments (WRCOG)

* Not affiliated with, or endorsed by, the CEC

Thank you