



# 2022 Energy Code

## Nonresidential Outdoor Lighting Requirements

California Energy Commission

March 2024



# Agenda

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- 2022 Energy Code basics
- Nonresidential requirements
  - Administrative
  - Mandatory
  - Prescriptive
  - 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

### WARREN-ALQUIST ACT

Warren-Alquist  
State Energy Resources  
Conservation and  
Development Act

Public Resources Code  
Section 25000 et seq.



CALIFORNIA  
ENERGY COMMISSION  
Gavin Newsom, Governor

2022 EDITION  
JANUARY 2022  
CEC-140-2022-001





# 2022 Energy Code Goals

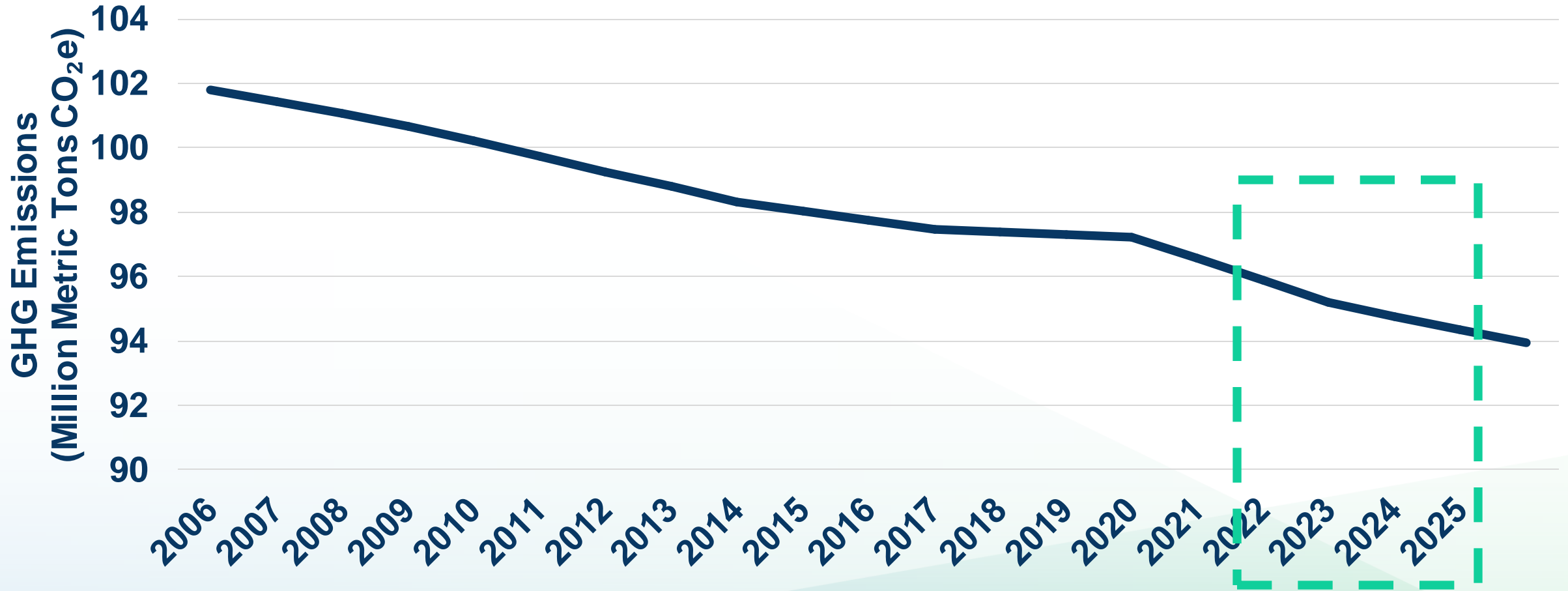
- Increase building energy efficiency cost-effectively
- Contribute to California's greenhouse gas (GHG) reduction goals
- Enable pathways for all-electric buildings
- Reduce residential building impacts on the electricity grid
- Promote demand flexibility and self-utilization of photovoltaic (PV)
- 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

## 2022 Building Energy Efficiency Standards

The Building Energy Efficiency Standards (Energy Code) apply to newly constructed buildings, additions, and alterations. They are a vital pillar of California's climate action plan. The 2022 Energy Code will produce benefits to support the state's public health, climate, and clean energy goals.

The California Energy Commission (CEC) updates the Energy Code every three years. On August 11, 2021, the CEC adopted the 2022 Energy Code. In December, it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.

2022 Energy Code for Residential and Nonresidential Buildings

2022 ENERGY CODE >



Expand All

Supporting Documents – Appendices, Compliance Manuals, and Forms +

Software – Compliance Software, Manuals, and Tools +

### BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24

2025 Building Energy Efficiency Standards

2022 Building Energy Efficiency Standards ^

— Workshops, Notices, and Documents

2019 Building Energy Efficiency Standards

2016 Building Energy Efficiency Standards

Past Building Energy Efficiency Standards

Climate Zone tool, maps, and information supporting the California Energy Code

Online Resource Center

Solar Assessment Tools

### RELATED LINKS

Workshops, Notices, and Documents

### CONTACT

[Building Energy Efficiency Standards - Title 24](#)

Toll-free in California: 800-772-3300

Outside California: 916-654-5106

### SUBSCRIBE

Building Energy Efficiency Standards

Email \*

SUBSCRIBE

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

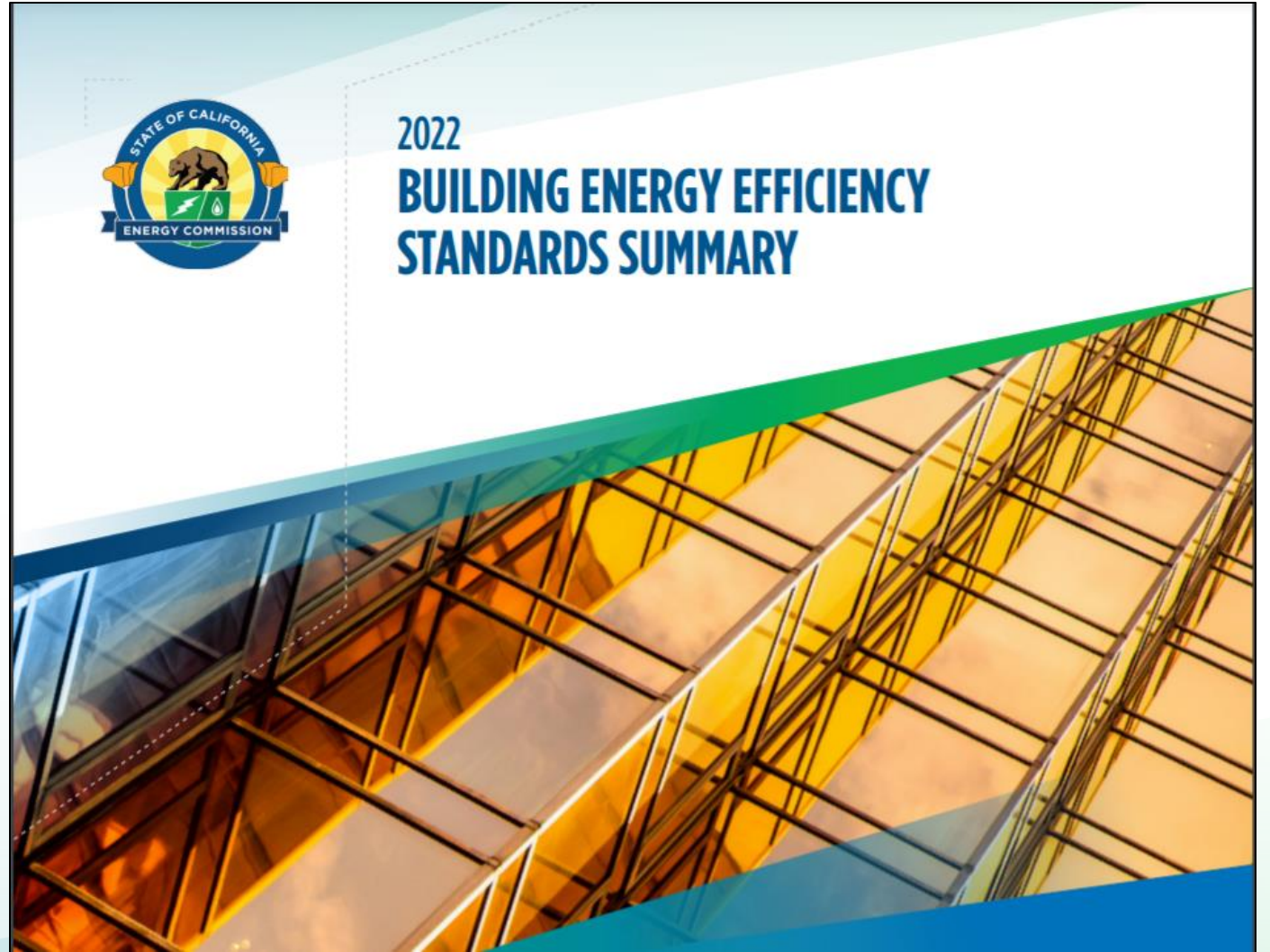






# 2022 Energy Code Highlights

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





# Energy Code Requirements

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## 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
- 2022 heat pump baselines

## Performance approach

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





# 2022 Performance Metrics

New for 2022

- **Source energy performance calculations**
- Nonresidential and multifamily
  - Hourly source energy
  - TDV Efficiency
  - TDV Total
    - Efficiency, PV + battery



# Demonstrating Compliance

- **Compliance forms confirm Energy Code is met**
- Completed by responsible party
  - Designers, consultants, builders, contractors, technicians, HERS raters, etc.
- Submitted to enforcement agencies for verification

Updated for 2022

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

## Multifamily buildings 3 or fewer habitable stories

Updated for 2022

- 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

- Nonresidential and multifamily
  - CBECC 2022.3.0
  - EnergyPro 9.2
  - IES 2.0



# Administrative Requirements



# 10-114 Outdoor Lighting Zones

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**Lighting zones determine outdoor lighting power allowances: lowest in LZ0, highest in LZ4.**

**Prevents over lighting of outdoor areas:**

- Reduces glare
- Reduces light pollution
- Saves energy



# 10-114 Outdoor Lighting Zones Continued

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## Descriptions (see Table 10-114-A):

- LZ0 (Very Low) – Undeveloped areas of government designated parks, recreation areas, and wildlife preserves
- LZ1 (Low) – Rural areas
- LZ 2 (Moderate) – Urban clusters
- LZ3 (Moderately high) – Urban areas
- LZ4 (High) - None





# Mandatory Requirements





# 110.9 Mandatory Requirements for Lighting Controls

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Requirements for:

- Time-switch lighting controls
- Daylighting controls
- Dimmers
- Occupant sensing controls
- Sensors used to detect occupants
- Indicator lights

May be individual devices or systems.



# 130.2(b) Luminaire Shielding Requirements

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Outdoor luminaires 6,200 initial lumens or greater must comply with Backlight, Uplight, and Glare (BUG) requirements in accordance with Title 24, Part 11, Section 5.106.8 (Light Pollution Reduction).

See 130.2(b) for exceptions.



# 130.2(c) Controls for Outdoor Lighting

- **Daylight availability** - All outdoor lighting must be controlled by one of the following:
  - Photo control
  - Astronomical time-switch control
  - Other control capable of automatically shutting off outdoor lighting when daylight is available.
- **Automatic scheduling** – All outdoor lighting must be equipped with controls that are capable of:
  - Reducing outdoor lighting power by 50% - 90%
  - Turning lighting off during scheduled unoccupied periods
  - Allowing to schedule at least two nighttime periods with independent lighting levels



# 130.2(c) Controls for Outdoor Lighting Cont.

- **Motion sensing controls required for:**
  - Outdoor luminaires other than those providing Building Façade, Ornamental Hardscape, Outdoor Dining, or Outdoor Sales Frontage lighting, where the bottom of the luminaire is mounted 24 feet above grade or lower.
  - Bilaterally symmetric outdoor wall mounted luminaires (wall packs) providing Building Façade, Ornamental Hardscape, or Outdoor Dining lighting that are mounted 24 feet above grade or lower.





# 130.2(c) Controls for Outdoor Lighting Cont.

- **Motion sensing controls must be capable of:**
  - Reducing lighting power of each controlled luminaire by 50 – 90%.
  - Separately turning luminaire off during unoccupied periods.
  - Reducing lighting to dim or off state no longer than 15 minutes after the area has been vacated, and returning the lighting to its on state when the area becomes occupied.
- **No more than 1,500 watts of lighting power may be controlled by a single sensor or as a single zone.**



# 130.2(c) Controls for Outdoor Lighting Cont.

- **Exceptions to lighting control requirements:**
  - Outdoor lighting not permitted by a health or life safety statute, ordinance, or regulation to be turned off or reduced.
  - Lighting in tunnels required to be illuminated 24 hours per day and 365 days per year.
- **Exceptions to motion sensing control requirements:**
  - Luminaires with maximum rated wattage of 40 watts each.
  - Applications listed as Exceptions to §140.7(a).
  - Lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period longer than 15 minutes or a minimum dimming level above 50 percent when necessary to comply with the applicable law.



# 130.4 Acceptance and Installation Certificate Requirements

**Acceptance testing required for outdoor lighting controls as described in NA7.8. Section 130.4 Lighting Control Acceptance and Installation Certificate Requirements:**

- A. Lighting and receptacle control acceptance requirements: prior to occupancy permit issued, indoor and outdoor lighting and receptacle controls for the building, site, or area shall comply with Section 110.12, 130.1, 130.2, 130.5, or 140.6 shall be certified for the Acceptance Requirements (130.4(a)(3), (4), (5), (6), (7), and (8).
- B. Lighting control installation certificate requirements: for compliance with Part 6, an installation certificate shall be submitted based on Section 10-103(a) and applicable requirements of 130.4(b)(1), (2), (5), (6), and (7).
- C. The acceptance testing shall be performed by a Certified Lighting Controls Acceptance Test Technician (CLCATT) and complete documentation as required in Section 10-103(a)4.



# Prescriptive Requirements





# 140.7(d)1 Calculation of Allowed Lighting Power

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General hardscape allowances listed in **TABLE 140.7-A**

How to calculate general hardscape allowance and initial wattage allowance:

- Outdoor lighting zone (LZ)
- Illuminated hardscape area
- Hardscape area (ft<sup>2</sup>)
- Hardscape perimeter length (ft)



# Table 140.7-A

TABLE 140.7-A GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE

Type of Power Allowance	Lighting Zone 0 <sup>3</sup>	Lighting Zone 1 <sup>3</sup>	Lighting Zone 2 <sup>3</sup>	Lighting Zone 3 <sup>3</sup>	Lighting Zone 4 <sup>3</sup>
Area Wattage Allowance (AWA)	No allowance <sup>1</sup>	0.016 W/ft <sup>2</sup>	0.019 W/ft <sup>2</sup>	0.021 W/ft <sup>2</sup>	0.024 W/ft <sup>2</sup>
Linear Wattage Allowance (LWA)	No allowance <sup>1</sup>	0.13 W/lf	0.15 W/lf	0.20 W/lf	0.29 W/lf
Initial Wattage Allowance (IWA)	No allowance <sup>1</sup>	150 W	200 W	250 W	320 W

<sup>1</sup> Continuous lighting is explicitly prohibited in Lighting Zone 0. A single luminaire of 15 Watts or less may be installed at an entrance to a parking area, trail head, fee payment kiosk, outhouse, or toilet facility, as required to provide safe navigation of the site infrastructure. Luminaires installed shall meet the maximum zonal lumen limits as specified in Section 130.2(b).

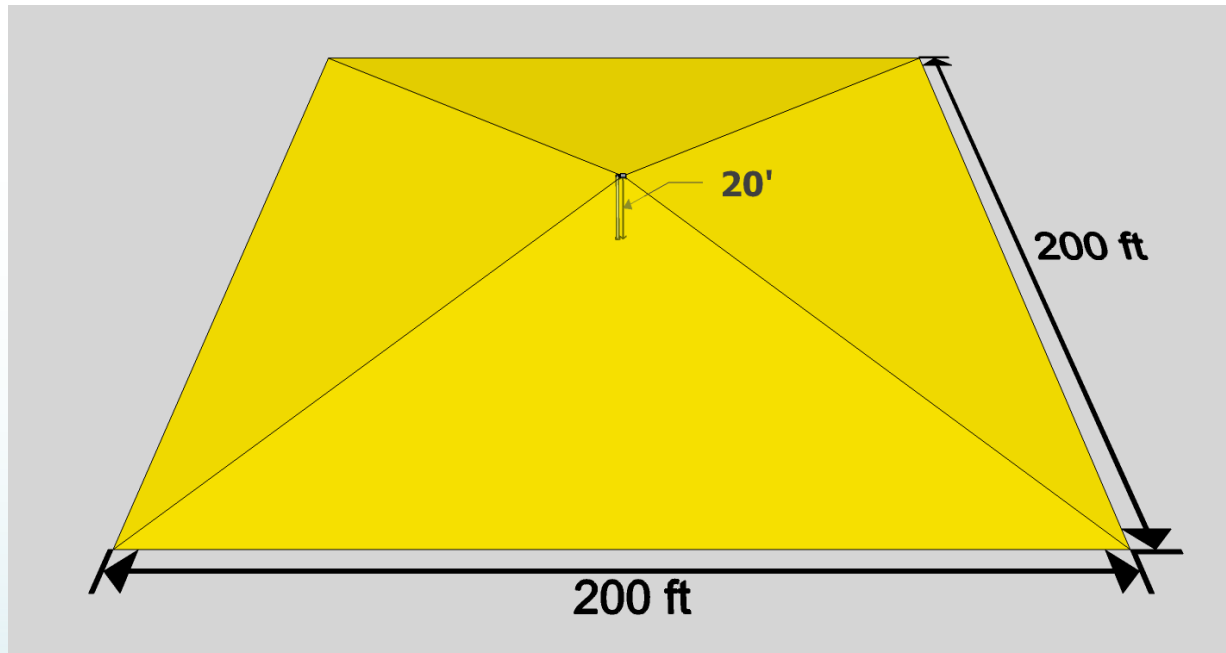
<sup>2</sup> RESERVED.

<sup>3</sup> Narrow band spectrum light sources with a dominant peak wavelength greater than 580 nm – as mandated by local, state, or federal agencies to minimize the impact on local, active professional astronomy or nocturnal habitat of specific local fauna – shall be allowed a 2.0 lighting power allowance multiplier.



# 140.7(d)1 General Hardscape Lighting Power Allowance cont.

**Illuminated hardscape area:** hardscape area within a square pattern around each luminaire that is ten times the luminaire mounting height with the luminaire in the middle of the pattern





# 140.7(d)2 Allowance for Specific Applications

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## Additional Lighting Power Allowance is “use it or lose it”

- Cannot claim additional lighting power if lighting for the specific application is not installed
- Cannot tradeoff additional lighting power

**TABLE 140.7-B** lists additional lighting power allowances for specific applications.





# TABLE 140.7-B

TABLE 140.7-B ADDITIONAL LIGHTING POWER ALLOWANCE FOR SPECIFIC APPLICATIONS  
*All area and distance measurements in plan view unless otherwise noted.*

Lighting Application	Lighting Zone 0	Lighting Zone 1	Lighting Zone 2	Lighting Zone 3	Lighting Zone 4
<b>WATTAGE ALLOWANCE PER APPLICATION. Use all that apply as appropriate.</b>					
<b>Building Entrances or Exits.</b> Allowance per door. Luminaires qualifying for this allowance shall be within 20 feet of the door.	Not applicable	9 watts	15 watts	19 watts	21 watts
<b>Primary Entrances to Senior Care Facilities, Police Stations, Healthcare Facilities, Fire Stations, and Emergency Vehicle Facilities.</b> Allowance per primary entrance(s) only. Primary entrances shall provide access for the general public and shall not be used exclusively for staff or service personnel. This allowance shall be in addition to the building entrance or exit allowance above. Luminaires qualifying for this allowance shall be within 100 feet of the primary entrance.	Not applicable	20 watts	40 watts	57 watts	60 watts
<b>Drive Up Windows.</b> Allowance per customer service location. Luminaires qualifying for this allowance shall be within 2 mounting heights of the sill of the window.	Not applicable	16 watts	30 watts	50 watts	75 watts
<b>Vehicle Service Station Uncovered Fuel Dispenser.</b> Allowance per fueling dispenser. Luminaires qualifying for this allowance shall be within 2 mounting heights of the dispenser.	Not applicable	55 watts	77 watts	81 watts	135 watts
<b>ATM Machine Lighting.</b> Allowance per ATM machine. Luminaires qualifying for this allowance shall be within 50 feet of the dispenser.	Not applicable	100 watts for first ATM machine, 35 watts for each additional ATM machine.			
<b>WATTAGE ALLOWANCE PER UNIT LENGTH (w/linear ft). May be used for one or two frontage side(s) per site.</b>					
<b>Outdoor Sales Frontage.</b> Allowance for frontage immediately adjacent to the principal viewing location(s) and unobstructed for its viewing length. A corner sales lot may include two adjacent sides provided that a different principal viewing location exists for each side. Luminaires qualifying for this allowance shall be located between the principal viewing location and the frontage outdoor sales area.	Not applicable	No Allowance	11 W/linear ft	19 W/linear ft	25 W/linear ft
<b>WATTAGE ALLOWANCE PER HARDSCAPE AREA (W/ft<sup>2</sup>). May be used for any illuminated hardscape area on the site.</b>					
<b>Hardscape Ornamental Lighting.</b> Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section	Not applicable	No Allowance	0.007 W/ft <sup>2</sup>	0.013 W/ft <sup>2</sup>	0.019 W/ft <sup>2</sup>



# **Additions and Alterations**





# 141.0(b)2L Outdoor Lighting Alterations

Three scenarios for outdoor lighting alterations:

Alterations of existing outdoor lighting systems as listed in TABLE 140.7-A or B, must meet requirements of Sections 130.0, 130.2(b), and 130.4.

- Increase connected lighting load
- Replacement of  $\geq 10\%$  of existing luminaires
- Replacement of  $\geq 50\%$  of existing luminaires

Requirements triggered when **replacing, increasing connected lighting load, or adding new luminaires**

- Typically does not include altering or retrofitting existing luminaires



# 141.0(b)2L Outdoor Lighting Alterations Cont.

Replacement of  $\geq 10\%$  of existing luminaires

- Altered parking lot and outdoor sales lot luminaires mounted  $\leq 24$  ft above ground:
  - Photocell or astronomical time-switch, and motion sensor
- For all other applications and where the altered luminaire is mounted  $> 24$  ft above ground:
  - Photocell or astronomical time-switch, and automatic scheduling control or other control capable of reducing outdoor lighting power by 40% when the area is vacant

Exception: Replacing  $< 5$  existing luminaires.



# 141.0(b)2L Outdoor Lighting Alterations Cont.

Replacement of  $\geq 50\%$  of existing luminaires

- Altered parking lot and outdoor sales lot luminaires mounted  $\leq 24$  ft above ground:
  - Photocell or astronomical time-switch, and motion sensor
- For all other applications and where the altered luminaire is mounted  $\geq 24$  ft above ground
  - Photocell or astronomical time-switch, and automatic scheduling control or other control capable of reducing outdoor lighting power by 40% when the area is vacant

Meet power allowance in 140.7, unless replacement luminaires reduce power by  $\geq 40\%$

Exception: Replacing  $< 5$  existing luminaires.



# 141.0(b)2L Outdoor Lighting Alterations cont.

**Acceptance testing** is required for lighting alterations if installing controls for more than 20 luminaires for the entire project





# Resources





# Online Resource Center

[www.energy.ca.gov/orc](http://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](#)





# ATTCP Program - Lighting

## ATTCP Program information

### Lighting Controls

- National Lighting Contractors Association of America (NLCAA)
- California Advanced Lighting Controls Training Program (CALCTP)



National Lighting Contractors  
Association of America



California Advanced Lighting  
Controls Training Program



# Blueprint Newsletter

## Energy Code quarterly newsletter

- Updates
- Clarifications
- Frequently asked questions



Issue 138
April - June 2022

# BLUEPRINT

CALIFORNIA ENERGY COMMISSION  
EFFICIENCY DIVISION

### IN THIS ISSUE

- 2022 Energy Code: Multifamily Summary
- 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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# Stay Connected

## Receive Energy Code updates

- [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

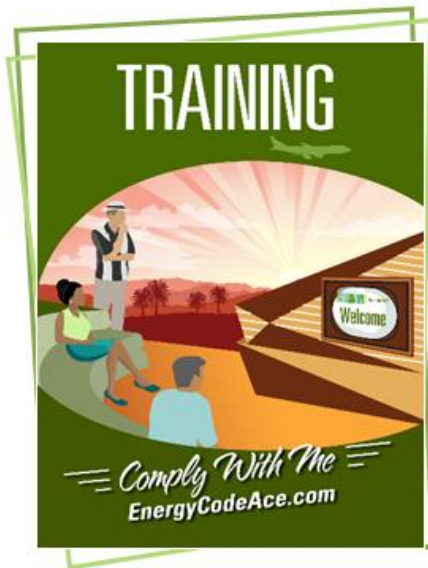
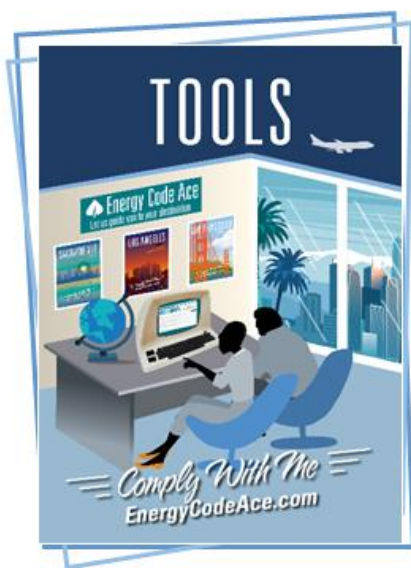


Email

- [Title24@energy.ca.gov](mailto:Title24@energy.ca.gov)



# Energy Code Ace



- Tools help automate tasks:**
- ✦ Energy Code Product Finder
  - ✦ Forms Ace
  - ✦ Image Ace
  - ✦ Navigator Ace
  - ✦ Nonres. Indoor Lighting Wheel
  - ✦ Q&Ace
  - ✦ Reference Ace
  - ✦ Timeline Ace
  - ✦ Virtual Compliance Assistant

- Training is activity based and delivered in a variety of formats:**
- ✦ Live Online instructor-led
  - ✦ Recorded webinars
  - ✦ Online self-study
  - ✦ YouTube — live streaming & videos

- Resources provide quick, useful guidance:**
- ✦ Fact Sheets
  - ✦ Checklists
  - ✦ Application Guides
  - ✦ Submit a Question
  - ✦ Trigger Sheets
  - ✦ Useful Links

Join us at [EnergyCodeAce.com](http://EnergyCodeAce.com)





# 3C-REN

The image shows a screenshot of the 3C-REN website. At the top left is the 3C-REN logo. To its right is a navigation menu with four items: "ABOUT 3C-REN", "HOME ENERGY SAVINGS", "BUILDING PERFORMANCE TRAINING", and "ENERGY CODE CONNECT", each with a dropdown arrow. A search icon is located to the right of the menu. Below the navigation is a large banner image of a mountain range. Overlaid on the bottom of the banner is the text: "3C-REN (Tri-County Regional Energy Network) reduces energy use in our region's buildings for a more affordable, healthy, resilient and sustainable community." Below the banner are three columns of content. The first column is titled "HOME ENERGY SAVINGS" with a house icon and the text "Save energy and improve your property" and a "Start Saving Today!" button. The second column is titled "BUILDING PERFORMANCE TRAINING" with a person at a computer icon and the text "Develop your skills in building performance" and a "Find a Course" button. The third column is titled "ENERGY CODE CONNECT" with a house and document icon and the text "Personalized coaching and educational events to simplify the energy code" and a "Submit Your Inquiry" button.

**3C-REN**

[ABOUT 3C-REN](#) [HOME ENERGY SAVINGS](#) [BUILDING PERFORMANCE TRAINING](#) [ENERGY CODE CONNECT](#)

**3C-REN (Tri-County Regional Energy Network) reduces energy use in our region's buildings for a more affordable, healthy, resilient and sustainable community.**

**HOME ENERGY SAVINGS**  
Save energy and improve your property  
[Start Saving Today!](#)

**BUILDING PERFORMANCE TRAINING**  
Develop your skills in building performance  
[Find a Course](#)

**ENERGY CODE CONNECT**  
Personalized coaching and educational events to simplify the energy code  
[Submit Your Inquiry](#)



# BayREN

A screenshot of the BayREN website homepage. The page features a green navigation bar at the top with links: "» HOW TO GET STARTED", "» FIND A CONTRACTOR", "» FIND AN ASSESSOR", and "» PARTNER WITH US". On the right side of the navigation bar is an accessibility icon (A7) and a search bar with a magnifying glass icon. The main content area is a large image of a park with a playground and people sitting at tables. Overlaid on the right side of the image is a dark purple circular graphic containing a stack of coins with a dollar sign. Below the graphic, the text reads: "Score big with smart energy upgrades." and "Upgrade your multifamily building and earn cash back — starting at \$750/unit." A yellow "Learn More" button is positioned below the text. On the left side of the page, there is a vertical menu with the following items: "REBATES &amp; FINANCING", "HOME LEARNING CENTER", "EVENTS &amp; TRAINING", "LOCAL GOVERNMENT RESOURCES", and "ABOUT". At the bottom of this menu are social media icons for Facebook, LinkedIn, Twitter, Instagram, and YouTube. The BayREN logo and tagline "Local Governments Empowering Our Communities" are located in the top left corner of the main content area.





# Inland Regional Energy Network (I-REN)



**iren.gov**  
**info@iren.gov**

## 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](http://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](http://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](http://www.iren.gov/162/CS-Technical-Support)



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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**