

California Building Standards Commission



presents



CAL Green®



Introduction

Enrique M. Rodriguez

Associate Construction Analyst
California Building Standards Commission
enrique.rodriquez@dgs.ca.gov
(916) 263-0845



Presentation Goals

- CBSC Overview
 - Rulemaking Processes
- CALGreen Outdoor Water Use
- 2015 Triennial Code Adoption Cycle
- Q&A



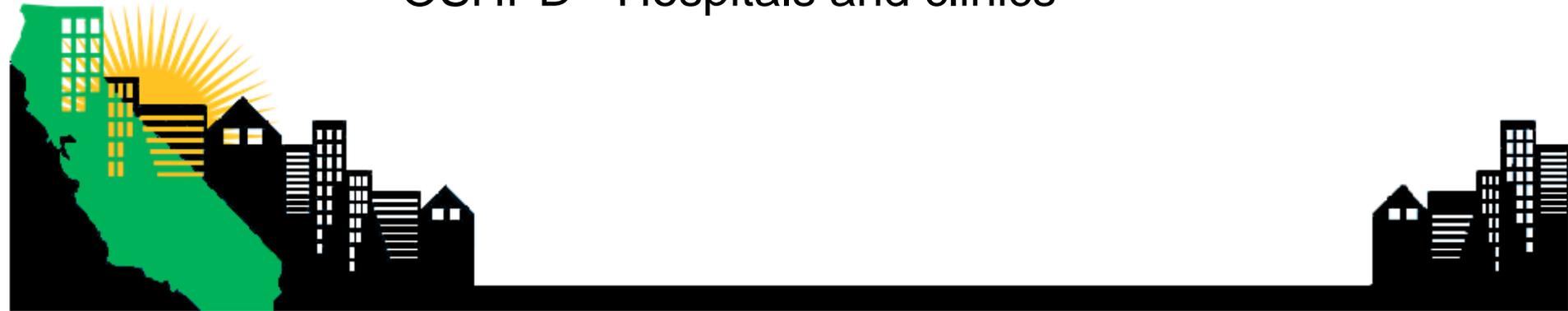
California Building Standards Commission

- Overview
 - Administration and publication of Title 24
 - Code Adoption Cycles
 - Triennial
 - Intervening
 - Rulemaking



Occupancy Authority

- State agencies develop and propose code changes based on occupancy authority
 - CBSC -
 - State buildings, universities, and non-residential occupancies
 - HCD -
 - Residential
 - DSA -
 - Public schools and community colleges
 - OSHPD - Hospitals and clinics



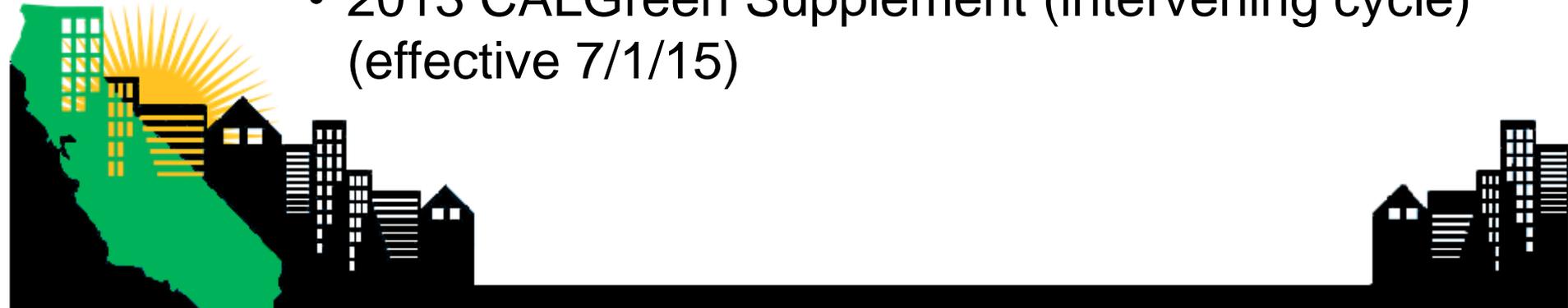
California Building Standards Commission

- Rulemaking Processes
 - Transparent public process
 - Pre-cycle workshops
 - Code Advisory Committees (6)
 - Review agency proposals
 - 45-day public comment period
 - Code approval and adoption by CBSC



CALGreen Development

- State agencies with authority to develop building codes worked together with industry stakeholders and interested parties to develop statewide green building standards commencing with a voluntary code in 2009.
- Current Code:
 - 2013 CALGreen (triennial cycle) - increased mandatory measures (effective 1/1/14)
 - 2013 CALGreen Supplement (intervening cycle) (effective 7/1/15)



Chapter 5- Nonresidential Part 11, Title 24

- Mandatory Measures
 - Planning and Design – Division 5.1
 - Energy Efficiency – Division 5.2
 - **Water Efficiency and Conservation – Division 5.3**
 - Material Conservation and Resource Efficiency – Division 5.4
 - Environmental Quality – Division 5.5



Codes for Irrigation Systems

Chapter 5- Division 5.3

Outdoor Water Use

2013 Current Code

- Establish Water budget- Based on local ordinance or the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO).
 - applies to new water service, additions or alterations



Chapter 5- Division 5.3 Outdoor Water Use

2013 Current Code

- Separate submeters or metering devices required for outdoor potable water use for landscape areas of at least 1,000 sq ft but not more than 5,000 sq ft
 - applies to new, additions or alterations



Chapter 5- Division 5.3 Outdoor Water Use

2013 Current Code

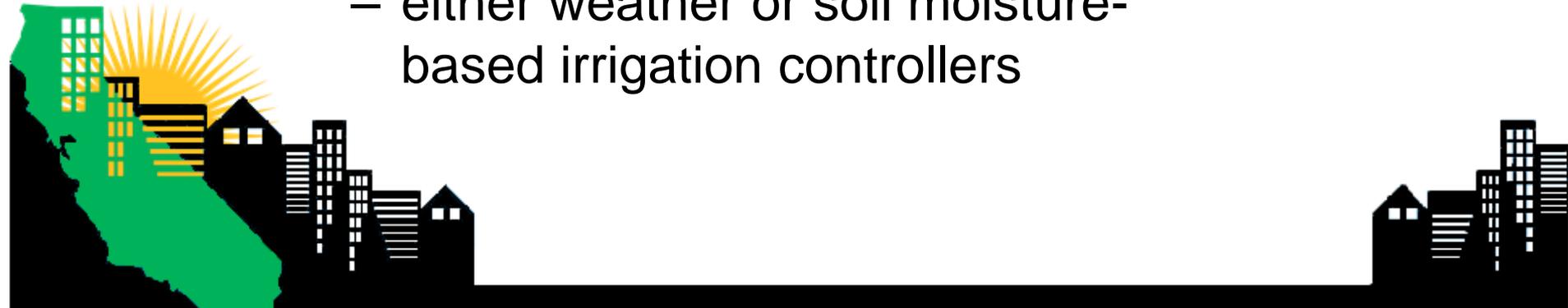
- Establish water budget- Based on local ordinance or MWELO
 - applies to new water service, additions or alterations



Chapter 5- Division 5.3 Outdoor Water Use

2013 Current Code

- Irrigation design for landscapes of at least 1,000 sq ft but no more than 2,500 sq ft applies to new, additions or alterations
- Irrigation controllers and sensors
 - either weather or soil moisture-based irrigation controllers



NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A5

The measures contained in the appendix are not mandatory unless adopted by a city, county, or city and county. Appendix provisions may also be used voluntarily by designers, builders, and property owners.



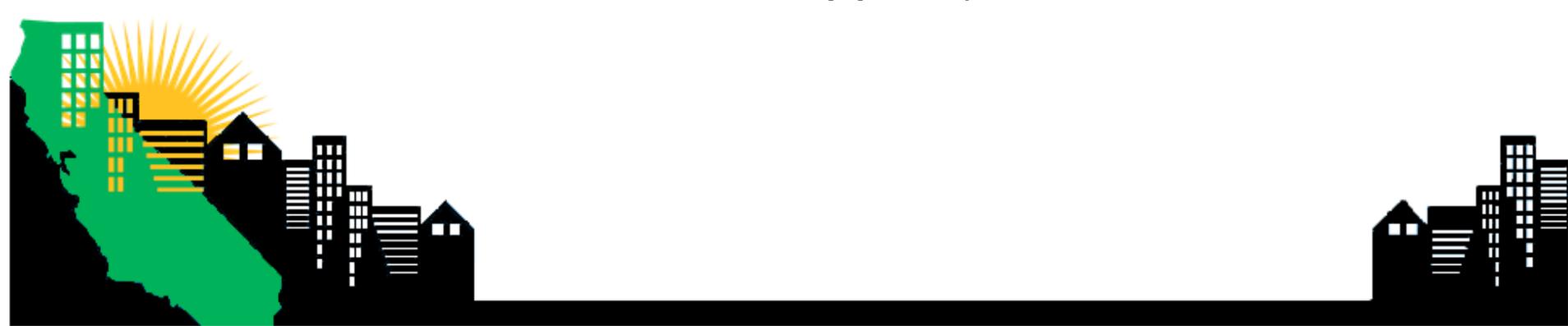
NONRESIDENTIAL VOLUNTARY MEASURES

Voluntary Codes for Irrigation Systems

- Appendix A5

A5.304.2.1 Outdoor potable water use.

For new water service not subject to the provisions of *Water Code* Section 535, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas of at least 500 sq ft but not more than 1,000 sq ft (the level at which Section 5.304.2 applies).



NONRESIDENTIAL VOLUNTARY MEASURES

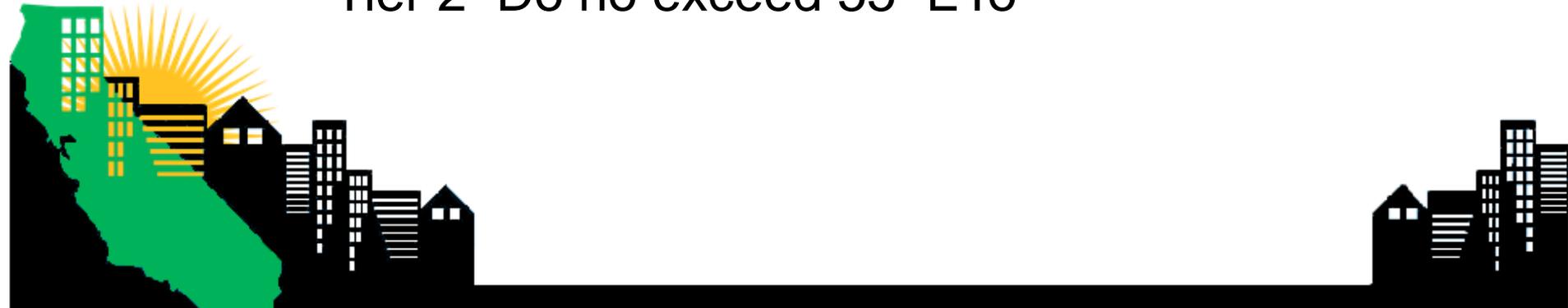
- Appendix A5

A5.304.4 Potable water reduction.

Provide water efficient landscape irrigation design that reduces the use of potable water beyond the initial requirements for plant installation and establishment in accordance with Section A5.304.4.1 or A5.304.4.2. Calculations for the reduction shall be based on the water budget developed pursuant to Section 5.304.1.

Tier 1 Do not exceed 60 ETo

Tier 2 Do no exceed 55 ETo



NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A5

A5.304.5 Potable water elimination.

Provide a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment. Methods used to accomplish the requirements of this section must be designed to the requirements of the *California Building Standards Code* and shall include, but not be limited to, the following: Plant coefficient, irrigation efficiency, use captured water, use recycled water, etc.



NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A5

A5.305.1 Nonpotable water systems.

Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the *California Plumbing Code*.

A5.305.2 Irrigation systems.

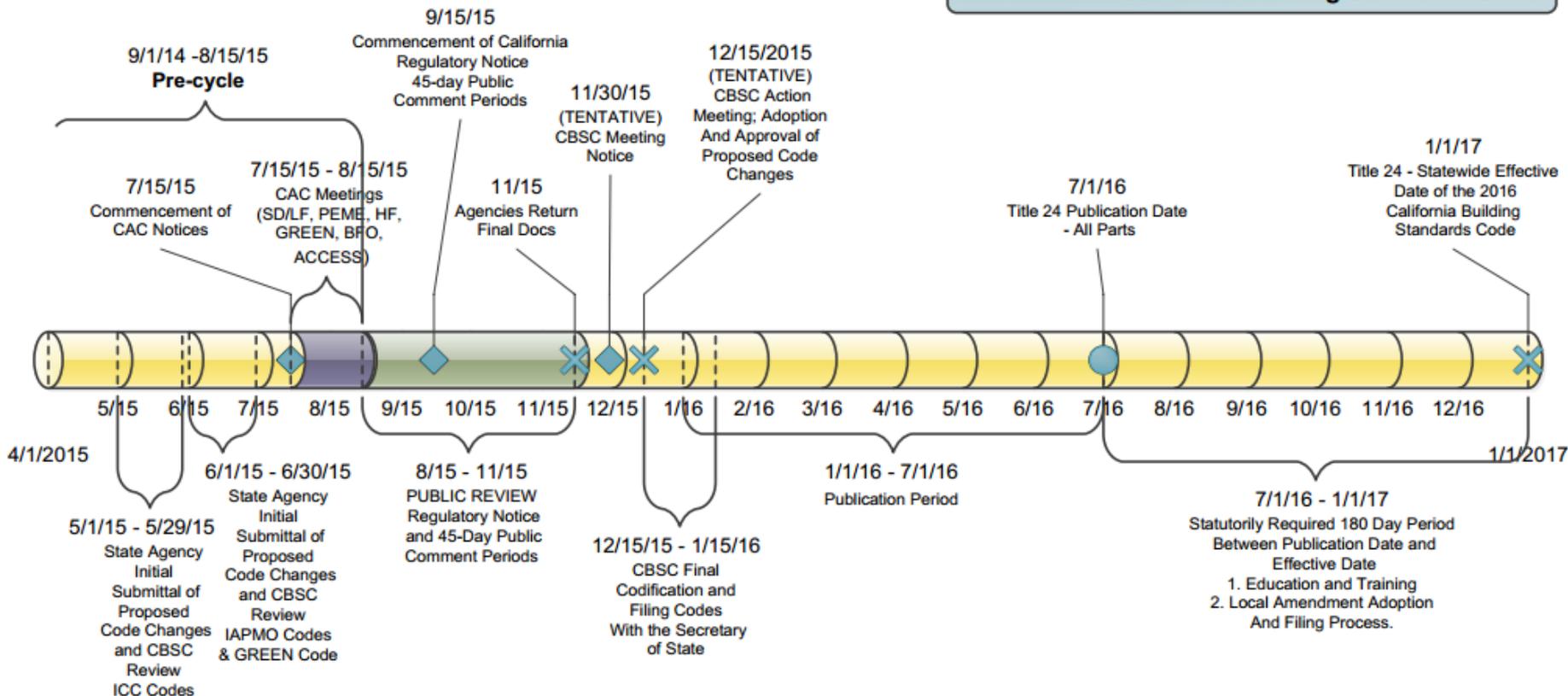
Irrigation systems regulated by a local water efficient landscape ordinance or by MWELO shall use recycled water.



January 1, 2017 Effective Date

2015 Triennial Code Adoption Cycle

For the 2016 California Building Standards Code



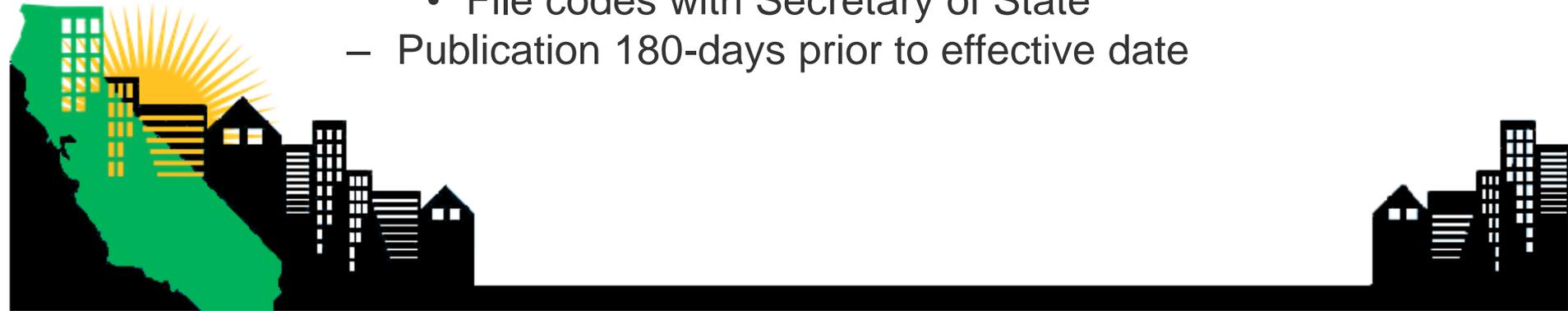
CAC Committees:

- SDLF – Structural Design/ Lateral Forces
- PEME – Plumbing, Electrical, Mechanical & Energy
- HF – Health Facilities
- GREEN – Green Building
- BFO – Building, Fire & Other
- ACCESS – Accessibility

*** All dates are subject to change**

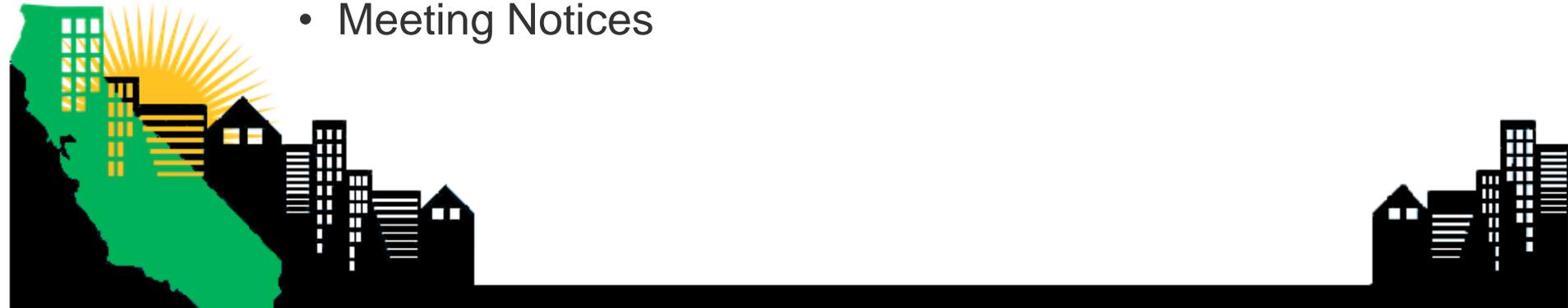
Code Adoption Timeline

- 18-month cycles
 - Triennial (13-volume code books)
 - Intervening (Supplement pages)
- Timeline
 - Pre-cycle workshops
 - Code Advisory Committee review
 - Approve, Disapprove, Further study required, Approve as amended
 - State agencies revisit proposals based on input
 - Public comment period
 - CBSC meeting adoption and approval
 - File codes with Secretary of State
 - Publication 180-days prior to effective date



California Building Standards Commission

- **Use the web! www.bsc.ca.gov**
 - Newly reformatted CBSC website for easier access to code information
 - Rulemaking Processes
 - Code Cycles
 - Current Codes
 - Guidebooks and other resources
 - Information Bulletins
 - Meeting Notices



Home

Welcome to the California Building Standards Commission



2015 TRIENNIAL CODE ADOPTION CYCLE

CODE ZONE AHEAD *NOW UNDER WAY...*



CBSC is authorized by **California Building Standards Law** to administer the many **processes** related to the development, adoption, approval, publication, and implementation of California's building codes.

The **California Building Standards Code**, Title 24 serves as the basis for the design and construction of buildings in California. Improved safety, sustainability, maintaining consistency, new technology and construction methods, and reliability are paramount to the development of building codes during each **Triennial and Intervening Code Adoption Cycle**.

California's building codes are published in their entirety every three years. Intervening Code Adoption Cycles produce Supplement pages half-way (18 months) into each triennial period. Amendments to California's building standards are subject to a lengthy and transparent public participation process throughout each code adoption cycle.

2015 Triennial Code Adoption Cycle

The 2015 Triennial Code Adoption Cycle will culminate with the publication of the 2016 California Building Standards Code, Title 24, California Code of Regulations. The 2016 Code will be published on or before July 1,



GOVERNOR Visit His Webpage
Edmund G. Brown Jr.



SECRETARY
California Government Operations Agency
Marybel Batjer



ACTING DIRECTOR
Department of General Services
Esteban Almanza



BSC Executive Director
Jim McGowan

Current Code

- Click here to access all parts of the 2013 current code

Education & Outreach

- Click for Local Amendments Webinar
- Click for 2013 CALGreen Nonresidential Webinar
- Click for 2013 CALGreen Commissioning Webinar

Featured Links

- 2013 Current Code
- 2013 Intervening Cycle

Are there any questions?



Email: cbosc@dgs.ca.gov

Web: www.bosc.ca.gov

