# COMMISSION ACTION MATRIX – YELLOWGREEN BUILDING (GREEN) CODE ADVISORY COMMITTEE

## 2022 California green building standards code, TITLE 24, PART 11 AGENCY: california building standards commission, BSC 04/22

### LEGEND:

**CAC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Agency Responses:** Accept, Disagree, Withdraw

**CBSC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required

If using assistive technology, please adjust your settings to recognize underline, strikeout and ellipsis.

* Existing California amendments appear upright
* Amended or new California amendments appear underlined
* Repealed California language appears ~~upright and in strikeout~~
* Ellipses ( ...) indicate existing text remains unchanged

### Chapter 2, Section 202 – definitions (electric vehicle related)

BSC proposes to adopt new and modify existing definitions as listed below.

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| **Item Number 1** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-1-1 | **ELECTRIC VEHICLE (EV) CHARGER** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Disapprove or Amend**  | Propose to adopt existing definition previously adopted only by HCD.**BSC:** No further amendments made. See FSOR. |  |
| BSC 04/22-1-2 | **ELECTRIC VEHICLE CHARGING STATION (EVCS)** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Disapprove and Amend** | Propose to adopt and modify existing definition (previously adopted HCD only). Modify to add the word receptacles.**BSC:** No further amendments made. See FSOR. |  |
| BSC 04/22-1-4 | **LEVEL 2 ELECTRIC VEHICLE (EV) CHARGER** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Disapprove or Amend** | Propose to adopt a new definition which aligns with HCD’s currently proposed which specifies minimum power amperage requirements.**BSC:** No further amendments made. See FSOR. |  |
| BSC 04/22-1-5 | **LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT** | Approve | Accept | **45-day public comments:** CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt and align with HCD’s previously adopted definition. Definition will allow the use of level 2 charging. **BSC:** No further amendments made. See FSOR. |  |
| BSC 04/22-1-6 | **LOW POWER LEVEL 2 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt and modify existing definition previously adopted by HCD. Modify to simplify removing superfluous information regarding EV driver.**BSC:** No further amendments made. See FSOR. |  |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.106 - SITE DEVELOPMENT

BSC proposes to adopt new and modify existing sections into the 2022 CALGreen as listed below.

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| **Item Number 5** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-5-1 | **5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG]** | Approve | Disagree | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend** | Propose to modify to clarify compliance of EVCS regulations. Add BSC-CG banner.**After CAC, BSC:** See ISOR for rationale.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-2 | **5.106.5.3.2 Electric vehicle charging stations (EVCS).** | Approve | Accept | **45-day public comments:**T. Sanchez & N. Dickerson, Tesla, **Approve**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Approve**CA Statewide Utility Codes and Standards, **Amend** | Propose to modify to allow the use of DCFC’s to be substituted for Level 2 EVSE.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-3 | **5.106.5.3.2.1** | Approve | Accept | **45-day public comments:**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Amend**CA Statewide Utility Codes and Standards, **Amend****15-day comments:**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Amend** | Propose to modify subsection to allow more flexibility to install DCFC in certain occupancies with short dwell time. **After 45-day, BSC**: No further amendments made. See FSOR.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-4 | **5.106.5.3.2.2** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt new section to allow the use of low power level 2 receptacle to be substituted for EV capable spaces without EVSE.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-5 | **5.106.5.3.4** Accessible **electric vehicle charging station** **(**EVCS**)**. | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend** | Propose to modify the title.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-7 | **5.106.5.3.5 Electric vehicle charging station signage.** | Approve | Accept | **45-day public comments:**T. Sanchez & N. Dickerson, Tesla, **Amend** | Propose to adopt new section which identifies signage for EVCS.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-8 | **Table 5.106.5.3.1** | Approve | Accept | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend** | Propose to modify tables footnote adding a third footnote identifying one level 2 EVSE to be provided.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-9 | **5.106.5.3.6 Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**T. Sanchez & N. Dickerson, Tesla, **Amend**CA Statewide Utility Codes and Standards, **Amend**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Amend****15-day comments:**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Approve** | Propose to adopt new section for new power allocation method.**After 45-day, BSC**: In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-5-10 | **Table 5.106.5.3.6 with footnotes** | Approve | Disagree | **45-day public comments:**CA Statewide Utility Codes and Standards, **Amend****15-day comments:**Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Amend** | Propose to adopt new table identifying the required EV capable spaces and total kVA’s with 4 new footnotes.**After CAC, BSC:** See ISOR for rationale.**After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.402 – DEFINITIONS

BSC proposes to add new terms to this section in the 2022 CALGreen as listed below.

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| **Item Number 9** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-9-1 | **5.402 Definitions.** | Approve | Accept | **45-day public comments:** Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Laura Karnath, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve** | Propose to add new terms to this section.**BSC:** REFERENCE BASELINE BUILDING replaced with REFERENCE STUDY PERIOD in Section 5.402 in 15-day ET. See FSOR for explanation. |  |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.409 LIFE CYCLE ASSESSMENT

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

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| **Item Number 11** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-11-1 | **5.409 Life cycle assessment ~~(Reserved)~~** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve****15-day public comments:** Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to repeal “~~(Reserved)~~” from the Title.**CAC: Criteria 4** **After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-11-2 | **5.409.1 Scope.** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve****15-day public comments:** Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new scoping section for newly constructed buildings >50,000 sq ft to comply with carbon reduction paths.**CAC: Criteria 4** – Add “altered” for the floor area and make effective date and square foot application be stepped (100,000 square feet effective July 1, 2024, and 50,000 square feet effective January 1, 2026).**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-11-3 | **5.409.2 Whole building life cycle assessment.** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve**Simon Rees – Arup, **Approve** with recommendations for future cycle**.**Tien Peng – NRMCA, **Approve as Amended**Jeff Bradley – AWC, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Michael Cudahy – PPFA, **Further Study Required**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which identifies whole building life cycle assessment “cradle-to-grave.”**CAC: Criteria 4** – Remove the reference standard years from the language in this section.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC:** No further amendments made. See FSOR. |  |
| BSC 04/22-11-4 | **5.409.2.1 Building components.** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve**Laura Karnath, **Approve as Amended.****15-day public comments:** Michael Malinowski – AIACA, **Approve**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which clarifies which building components are included in life cycle analysis.**CAC: Criteria 4****After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-11-5 | **5.409.2.2 Reference study period.** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve****15-day public comments:** Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which specifies 60 years assumed building lifespan. **CAC: Criteria 4****After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-11-6 | **5.409.2.3 Verification of compliance** | Approve as Amend | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Kurt Hurley – City of Berkeley, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Charley Rea – CalCIMA, **Approve**Michael Malinowski – AIACA, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which specifies GWP analysis to be included in construction documentation.**CAC: Criteria 4.****After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.409 LIFE CYCLE ASSESSMENT

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

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| **Item Number 12** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-12-1 | **5.409.3 Product GWP compliance – prescriptive** path. | Approve | Accept | **45-day public comments:** Lisa Podesto, **Approve.**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve****15-day public comments:** Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section addressing additional compliance paths for acceptable GWP values.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-12-2 | **5.409.3.1 & Exception** | Approve | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski –AIACA, **Approve**Charley Rea – CalCIMA, **Approve**Laura Karnath, **Approve as Amended****15-day public comments:** Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section addressing industry feedback regarding: “California may not be able to comply with prescriptive acceptable GWP values for concrete/cement.”**After 45-day, BSC**: No further amendments made. See FSOR.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-12-3 | **Exception EQUATION 5.409.3.1** | Approve | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve**Bryce Tanner – Arup, **Approve as Amended**Laura Karnath, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to add new calculation, a weighted average maximum GWP using the exception equation.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-12-4 | **5.409.3.2 Verification of compliance** | Approve | Accept | **45-day public comments:** Lisa Podesto, **Approve**Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Kurt Hurley – City of Berkeley, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Charley Rea – CalCIMA, **Approve**Michael Malinowski – AIACA, **Approve as Amended**Bryce Tanner – Arup, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Proposes to adopt new section which specifies calculations to demonstrate compliance to Type III EPDs in construction documentation.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-12-5 | **Table 5.409.3 Product GWP limits &****Footnotes** | Approve | Accept | **45-day public comments:** Lisa Podesto, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Sara Neff, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Charley Rea – CalCIMA, **Approve**Simon Rees – Arup, **Approve** with recommendations for future cycle.Rachelle Habchi – SEAOSC, **Aprove as Amended**Tien Peng – NRMCA, **Aprove as Amended**Bryce Tanner – Arup, **Approve as Amended**Laura Karnath, **Approve as Amended**Josh Jacobs – WAP Sustainability, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**Brady Guertin – CALBO, recommendation unknown | Propose to adopt new Table with product GWP limits.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |

### Chapter 8, COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIALS

BSC proposes to adopt new worksheets into the 2022 CALGreen as listed below.

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| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 15** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-15-1 | **Worksheet (WS-3) Section 5.105.2 Building Reuse** | Approve | Accept | **45-day public comments:** Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve****15-day public comments:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for building reuse to assist is showing compliance.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-15-2 | **Worksheet (WS-4) Section 5.409.2 Whole Building Life Cycle Assessment** | Approve | Withdraw | **45-day public comments:** Michael Malinowski – AIACA, **Approve as Amended** to add back and develop the worksheet**15-day public comments:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for whole building life cycle assessment assist in showing compliance. **After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.**After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-15-3 | **Worksheet (WS-5) Section 5.409.3 Product GWP Compliance Prescriptive Path** | Approve | Withdraw | **45-day public comments:** Michael Malinowski – AIACA, **Approve as Amended**to add back and develop the worksheet**15-day public comments:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet, verification of GWP compliance.**After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.**After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-15-4 | **Worksheet (WS-6) Section A5.105.2 Building Reuse Tier 1 and Tier 2** | Approve | Accept | **45-day public comments:** Rachelle Habchi – SEAOSC, **Approve**Colleen FitzSimons – SDGBC, **Approve**Charles Stott – Stott Architects, **Approve**Ismar Enriquez, **Approve**Pauline Souza – WRNS Studio, **Approve**Rona G. Rothenberg, **Approve**Seth Dunn, **Approve**William E Leddy – AIA California, **Approve**Vikas Shrestha, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve****15-day public comment:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet to show compliance for building reuse Tiers 1 & 2.**After CAC, BSC:** Worksheet renumbered since WS-4 and 5 were withdrawn.**After 45-day, BSC:** In response to 45-day comment, BSC added back and developed WS-4 and WS-5, so the worksheet was renumbered back to WS-6 in 15-day ET.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-15-5 |  |  |  |  |  |  |
| BSC 04/22-15-5 | **Worksheet (WS-7)****Section A5.409.2 Whole Building Life Cycle Assessment** | Approve | Withdraw | **45-day public comments:** Michael Malinowski – AIACA, **Approve as Amended**to add the worksheet**15-day public comment:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | New worksheet added in 15-day ET after 45-day public comment period has been completed.**After 45-day, BSC:** In response to 45-day comment, BSC added and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-15-6 | **Worksheet (WS-8) Section A5.409.3 Product GWP Compliance – Prescriptive Path** | Not Reviewed By CAC |  | **45-day public comments:** Michael Malinowski – AIACA, **Approve as Amended**to add back and develop the worksheet**15-day public comment:** Michael Malinowski – AIACA, **Approve**Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for verification of compliance for product GWP.**After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.**After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTION A5.106 SITE DEVELOPMENT

BSC proposes to modify existing sections and add new sections to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 17** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-17-4 | **A5.106.5.1.3 Future charging spaces & Note** | Approve | Accept | **45-day public comments:**T. Sanchez & N. Dickerson, Tesla, **Amend** | Propose to add new section for EV future spaces needed to clarify spaces count toward designated parking to clean air vehicles.**After 45-day, BSC**: No further amendments made. See FSOR. |  |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTION A5.106 SITE DEVELOPMENT

BSC proposes to modify existing sections and add new sections/tables to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 18** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-18-2 | **A5.106.5.3.1 Tier 1** | Approve | Disagree | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Proposes to modify text to refer code user to the proper mandatory section.**BSC:** See ISOR for rationale.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-18-3 | **Table A5.106.5.3.1 Tier 1** | Approve | Accept | **45-day public comments:** California Statewide Utility Codes and Standards; **Amend** | Propose to modify the title for Table A5.106.5.3.1 by adding the word “Tier 1” after the table number.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-18-4 | **A5.106.5.3.2** **Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to add new section for power allocation method and associated table.**After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section. See FSOR for explanation. |  |
| BSC 04/22-18-5 | **Table A5.106.5.3.2 Tier 1** | Approve | Disagree | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to add new table showing the actual parking and required EV capable spaces converted into kVA. Tier 1.**BSC:** See ISOR for rationale.**After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section table. See FSOR for explanation. |  |
| BSC 04/22-18-6 | **A5.106.5.3.~~2~~ 3 Tier 2** | Approve | Disagree | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to modify section and change the section number. To refer the code user to the appropriate mandatory code section for EV capable.**BSC:** See ISOR for rationale.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-18-7 | **Table A5.106.5.3.~~2~~ 3 Tier 2** | Approve | Accept | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to modify table and by adding Tier 2 and modify table number. A new footnote.**After 45-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-18-8 | **A5.106.5.3.4 Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to add new section EVCS power allocation method and associated table.**After 45-day, BSC** In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section. See FSOR for explanation. |  |
| BSC 04/22-18-9 | **Table A5.106.5.3.4 Tier 2** | Approve | Disagree | **45-day public comments:**California Statewide Utility Codes and Standards; **Amend** | Propose to add new table showing the actual parking and required EV capable spaces converted into kVA. Tier 2.**BSC:** See ISOR for rationale.**After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section table. See FSOR for explanation. |  |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTIONS A5.102 DEFINITIONS AND A5.107 BIRD-FRIENDLY BUILDING DESIGN

BSC proposes to add new sections into the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 20** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-20-3 | **A5.107.1 Required elevation treatment & Sub-numbers 1 with Notes & 2**  | Approve | Accept | **45-day public comments:** Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve** Donna Marciano - San Joaquin Audubon Society, **Approve**Jeff Rank –CollidEscape, **Approve as Amended** | Propose to add new section which includes glazing that covers the many design aspects for windows to minimize the risk of bird collisions. **After 45-day, BSC**: No further amendments made. See FSOR. |  |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.405 MATERIAL SOURCES

BSC proposes to add new section to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 23** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-23-1 | **A5.405.2.1 ~~Reserved~~ Certified Wood Components - Sustainability Standards.** | Further Study | Accept | **45-day public comments:**Jeff Bradley – AWC, **Approve as Amended** | Propose to a repeal “~~Reserved~~” and add new section addressing certified wood components – sustainability standards.**CAC:** Criteria 4 – Determine the percentage requirement of certified wood for project. Determine the year for the ASTM D7612 standard.**After CAC, BSC:** Changes made, see ISOR.**After 45-day, BSC**: No further amendments made. See FSOR. |  |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.409 LIFE CYCLE ASSESSMENT

BSC proposes to repeal, add new, and modify existing sections into the 2022 CALGreen as listed below.

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| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 25** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| BSC 04/22-25-4 | **A5.409.2.1 Tier 1 & Exception** | Approve | Accept | **45-day public comments:** Colleen FitzSimons – SDGBC, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Tien Peng – NRMCA, **Approve as Amended**Jeff Bradley – AWC, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Michael Cudahy – PPFA, **Further Study Required** | Propose new section meeting the above requirements as Tier 1.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-25-5 | **A5.409.2.2 Tier 2 & Exception** | Approve | Accept | **45-day public comments:** Colleen FitzSimons – SDGBC, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Tien Peng – NRMCA, **Approve as Amended**Jeff Bradley – AWC, **Approve as Amended****15-day public comments:** Michael Malinowski – AIACA, **Approve**Michael Cudahy – PPFA, **Further Study Required** | Propose new section meeting requirements of A5.409.2 for Tier 2.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.**After 15-day, BSC**: No further amendments made. See FSOR. |  |
| BSC 04/22-25-5.1 | **A5.409.2.3 Verification of compliance.** | Not Reviewed By CAC |  | **45-day public comments:** Michael Malinowski – AIACA, **Approve as Amended****15-day public comment:** Michael Malinowski – AIACA, Approve | **After 45-day, BSC:** New section added in 15-day ET after 45-day public comment period has been completed. See 15-day ET and FSOR for explanation. |  |
| BSC 04/22-25-8 | **A5.409.3.2 Verification of compliance.** | Approve | Accept | **45-day public comments:** Colleen FitzSimons – SDGBC, **Approve**Suyama Bo – AIA Orange County Chapter, **Approve**Adrienne Etherton, **Approve**Hafsa Burt – HB+A Architects, **Approve**Lauren Kubiak – NRDC, **Approve**Hoi-Fei Mok – City of San Leandro, **Approve**Timothy Burroughs – StopWaste, **Approve**Kurt Hurley – City of Berkeley, **Approve**Simon Rees – Arup, **Approve**Michael Malinowski – AIACA, **Approve**Michael Malinowski – AIACA, **Approve as Amended****15-day public comment:** Michael Malinowski – AIACA, **Approve** | Propose new section for verification of compliance calculations.**After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation. |  |