# COMMISSION ACTION MATRIX GREEN Building (GREEN) CODE ADVISORY COMMITTEE – February 8 –10, 2023

## 2022 California Green Building Standards Code, TITLE 24, PART 11 AGENCY: DIVISION OF THE STATE ARCHITECT, dsa-ss/CC 01/22

### 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**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required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* Repealed California language appears ~~upright and in strikeout~~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 DEFENITIONS, Section 202 definitions (carbon reduction and EV related)

DSA proposes to adopt new and amend existing definitions as listed below.

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| **Item Number 1** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-1-1 | **BUY CLEAN CALIFORNIA ACT** |  |  |  | Propose to adopt new definition that defines a maximum acceptable GWP for each category of eligible materials. |  |
| DSA-SS/CC 01/22-1-2 | **CRADLE-TO-GATE** |  |  |  | Propose to adopt new definition that aligns with industry standards that defines the carbon impact of a building product the moment it is produced to being installed in a structure. |  |
| DSA-SS/CC 01/22-1-3 | **CRADLE-TO-GRAVE** |  |  |  | Propose to adopt new definition that aligns with industry standards that defines the entire lifecycle of a product. |  |
| DSA-SS/CC 01/22-1-4 | **DECONSTRUCTION** |  |  |  | Propose to adopt new term which is used in Section 5.408.1. |  |
| DSA-SS/CC 01/22-1-5 | **ELECTRIC VEHICLE CHARGING STATION (EVCS)** |  |  |  | Propose to adopt new definition for EVCS.  |  |
| DSA-SS/CC 01/22-1-6 | **ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE)** |  |  |  | Propose to modify existing definition to add “personnel protection system” to align with 2022 California Electrical Code. |  |
| DSA-SS/CC 01/22-1-7 | **TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD)** |  |  |  | Propose to adopt new definition that addresses a third party verified report that summarizes how product impact the environment.  |  |
| DSA-SS/CC 01/22-1-8 | **PRODUCT-SPECIFIC EPD** |  |  |  | Propose to adopt new definition that identifies environmental impacts attributed to product design and manufacturer across multiple facilities.  |  |
| DSA-SS/CC 01/22-1-9 | **FACTORY-SPECIFIC EPD** |  |  |  | Propose to adopt new definition that identify environmental impacts to single manufacturer and manufacturing facility |  |
| DSA-SS/CC 01/22-1-10 | **INDUSTRY-WIDE EPD (IW-EPD)** |  |  |  | Propose to adopt new definition that identify environmental impacts of typical manufacturing impacts for a range of products within same product category for group of mfg. |  |
| DSA-SS/CC 01/22-1-11 | **LEVEL 1 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** |  |  |  | Propose to adopt new definition for Level 1 EV charging receptacle. |  |
| DSA-SS/CC 01/22-1-12 | **LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT** |  |  |  | Propose to adopt new definition for Level 2 EVSE. |  |
| DSA-SS/CC 01/22-1-13 | **LOW POWER LEVEL 2 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** |  |  |  | Propose to adopt new definition for Low power Level 2 EV charging receptacle. |  |
| DSA-SS/CC 01/22-1-14 | **REFERENCE STUDY PERIOD** |  |  |  | Propose to adopt new definition that identifies life cycle assessment for the period of use for the building. |  |

### Chapter 3 Green Building, Section 301.4 Mandatory Measures for Public Schools and Community Colleges

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

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| **Item Number 2** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-2-1 | **301.4.2.5** |  |  |  | Propose new scoping section for additions and alterations to existing parking facilities |  |
| DSA-SS/CC 01/22-2-2 | **301.4.2.6** |  |  |  | Propose new scoping section for additions and alterations to existing buildings |  |

### Chapter 5 NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.105 - DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

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

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| **Item Number 3** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-3-1 | **5.105 Deconstruction and Reuse of Existing Structures ~~(Reserved)~~** |  |  |  | Propose to repeal “Reserved” from the Title. |  |
| DSA-SS/CC 01/22-3-2 | **5.105.1** **Scope****& Exception** |  |  |  | Propose to adopt new scoping section which includes additions/alterations of combined floor area 50,000 sq ft or greater to comply with available options. |  |
| DSA-SS/CC 01/22-3-3 | **5.105.2 Reuse of existing building** |  |  |  | Propose to adopt new section addressing the reuse of existing buildings primary structural elements. |  |
| DSA-SS/CC 01/22-3-4 | **5.105.2.1 Verification of compliance & Note** |  |  |  | Propose to adopt new section requiring documentation to demonstrate compliance. |  |
| DSA-SS/CC 01/22-3-5 | **5.105.3** **Deconstruction (reserved)** |  |  |  | This section is added as a place holder for future use to address the deconstruction portion of the main section.  |  |

### Chapter 5, DIVISION 5.1, SECTION 5.106 - SITE DEVELOPMENT

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

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| **Item Number 4** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-4-1 | **~~5.106.5.3~~****5.106.5.6**  |  |  |  | Proposes to move existing co-adopted sections 5.106.5.3 and related sub-sections of CALGreen into a new school specific section 5.105.5.6 and sub-sections. Amend the title and add DSA-SS banner. |  |
| DSA-SS/CC 01/22-4-2 | **Exceptions** |  |  |  | Propose to amend the Exceptions for DSA-SS |  |
| DSA-SS/CC 01/22-4-3 | **~~5.106.5.3.1~~ 5.106.5.6.1 w/ ~~Note~~** |  |  |  | Propose to renumber the existing code section for EV capable spaces to a DSA-SS specific code section And repeal Note. |  |
| DSA-SS/CC 01/22-4-4 | **TABLE ~~5.106.5.3.1~~ 5.106.5.6.1 w/ footnotes** |  |  |  | Propose to renumber the title for the table and make changes to column 3 and footnotes. |  |
| DSA-SS/CC 01/22-4-5 | **~~5.106.5.3.2~~****5.106.5.6.2** |  |  |  | Propose to renumber the existing code section for electric vehicle charging stations to a DSA-SS specific code section with other amendments to allow the use of the various charging options |  |
| DSA-SS/CC 01/22-4-6 | **5.106.5.6.2.1** |  |  |  | Propose to add a new section number and title to existing code language with other edits. |  |
| DSA-SS/CC 01/22-4-7 | **5.106.5.6.2.2** |  |  |  | Propose to add a new section number and title to existing code language with other edits. |  |
| DSA-SS/CC 01/22-4-8 | **~~5.106.5.3.3~~****5.106.5.6.2.3** |  |  |  | Propose to renumber the existing code section for ALMS to a DSA-SS specific code section with other amendments  |  |
| DSA-SS/CC 01/22-4-9 | **~~5.106.5.3.4~~** |  |  |  | Repeal existing section about Accessible EVCS |  |
| DSA-SS/CC 01/22-4-10 | **5.106.5.6.3** |  |  |  | Propose to adopt new section for new power allocation method for EVCS. |  |
| DSA-SS/CC 01/22-4-11 | **Table 5.106.5.6.3** |  |  |  | Propose to adopt new power table for new power allocation method. |  |
| DSA-SS/CC 01/22-4-12 | **5.106.5.6.4** |  |  |  | Propose to adopt new section for additions and alterations for parking facilities |  |
| DSA-SS/CC 01/22-4-13 | **5.106.5.6.4.1** |  |  |  | Propose to adopt new sub section for Alterations of and additions to parking facilities |  |
| DSA-SS/CC 01/22-4-14 | **5.106.5.6.4.2** |  |  |  | Propose to adopt new sub section Alterations consisting of the installation of photovoltaic systems |  |
| DSA-SS/CC 01/22-4-15 | **5.106.5.6.5 w/ Exception** |  |  |  | Propose to adopt new sub section with exception for requirement to install EVSE  |  |

### Chapter 5, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.401 GENERAL & 5.402 definitions

DSA proposes to modify existing section in the 2022 CALGreen as listed below.

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| **Item Number 5** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-5-1 | **5.401.1 Scope** |  |  |  | Propose to modify section to provide GHG emission reduction and provide clarity. |  |
| DSA-SS/CC 01/22-5-2 | **5.402 Definitions** |  |  |  | Propose to add new terms to this section. |  |

### Chapter 5, DIVISION 5.4, SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

DSA proposes to modify existing section in the 2022 CALGreen as listed below.

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| **Item Number 6** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-6-1 | **5.408.1 Construction waste management** |  |  |  | Propose to modify existing section to include industry terms and clarify the types of nonhazardous building waste. |  |

### Chapter 5, DIVISION 5.4, SECTION 5.409 LIFE CYCLE ASSESSMENT

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

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| **Item Number 7** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-7-1 | **5.409 Life cycle assessment ~~(Reserved)~~** |  |  |  | Propose to repeal “Reserved” from the Title. |  |
| DSA-SS/CC 01/22-7-2 | **5.409.1 Scope** |  |  |  | Propose to adopt new scoping section for newly constructed buildings >50,000 sq ft to comply with carbon reduction paths. |  |
| DSA-SS/CC 01/22-7-3 | **5.409.2 Whole building life cycle assessment** |  |  |  | Propose to adopt new section which identifies whole building life cycle assessment “cradle-to-grave.” |  |
| DSA-SS/CC 01/22-7-4 | **5.409.2.1 Building components** |  |  |  | Propose to adopt new sub-section which clarifies which building components are included in life cycle analysis. |  |
| DSA-SS/CC 01/22-7-5 | **5.409.2.2 Reference study period** |  |  |  | Propose to adopt new sub-section which specifies 60 years assumed building lifespan.  |  |
| DSA-SS/CC 01/22-7-6 | **5.409.2.3 Verification of compliance & Notes** |  |  |  | Propose to adopt new sub-section with Notes which specifies GWP analysis to be included in construction documentation. |  |

### Chapter 5, DIVISION 5.4, SECTION 5.409 LIFE CYCLE ASSESSMENT

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

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| **Item Number 8** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-8-1 | **5.409.3 Product GWP compliance – prescriptive path** |  |  |  | Propose to adopt new section addressing additional compliance paths for acceptable GWP values. |  |
| DSA-SS/CC 01/22-8-2 | **5.409.3.1 & Exception** |  |  |  | Propose to adopt new section addressing industry feedback regarding: “California may not be able to comply with prescriptive acceptable GWP values for concrete/cement.” |  |
| DSA-SS/CC 01/22-8-3 | **Exception EQUATION 5.409.3.1** |  |  |  | Propose to add new calculation, a weighted average maximum GWP using the exception equation. |  |
| DSA-SS/CC 01/22-8-4 | **5.409.3.2 Verification of compliance & Note** |  |  |  | Proposes to adopt new section which specifies calculations to demonstrate compliance to Type III EPDs in construction documentation. |  |
| DSA-SS/CC 01/22-8-5 | **Table 5.409.3 &****Footnotes** |  |  |  | Propose to adopt new Table and footnotes with product GWP limits. |  |

### Chapter 6 REFERENCED ORGANIZATIONS AND STANDARDS, SECTION 601.1 GENERAL

DSA proposes editorial changes and to add new referenced standards to the 2022 CALGreen as listed below.

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| **Item Number 9** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-9-1 | **601.1** |  |  |  | Editorial changes to section main paragraph.  |  |
| DSA-SS/CC 01/22-9-2 | **ACI CT-21** |  |  |  | Propose to add new referenced standard to the reference standards table. |  |
| DSA-SS/CC 01/22-9-3 | **EN 15804****EN 15978-2011** |  |  |  | Propose to add new referenced standards to the reference standards table. |  |
| DSA-SS/CC 01/22-9-4 | **ISO 14044:2006****ISO 21930-2017****ISO 21931-2017** |  |  |  | Propose to add new referenced standards to the reference standards table. |  |

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

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

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| **Item Number 10** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| DSA-SS/CC 01/22-10-1 | **Worksheet (WS-3) Building Reuse** |  |  |  | Propose to add new worksheet for building reuse to assist in showing compliance. |  |
| DSA-SS/CC 01/22-10-2 | **Worksheet (WS-4) Whole Building Life Cycle Assessment** |  |  |  | Propose to add new worksheet for whole building life cycle assessment assist in showing compliance. |  |
| DSA-SS/CC 01/22-10-3 | **Worksheet (WS-5) Product GWP Compliance Prescriptive Path** |  |  |  | Propose to add new worksheet, verification of GWP compliance. |  |
| DSA-SS/CC 01/22-10-4 | **Worksheet (WS-6) Documentation of Compliance of Existing Building Reuse Tier 1 & Tier 2** |  |  |  | Propose to add new worksheet to show compliance for building reuse Tiers 1 & 2. |  |
| DSA-SS/CC 01/22-10-5 | **Worksheet (WS-7) Product GWP Compliance Prescriptive Path Tier 1 & 2** |  |  |  | Propose to add new worksheet for verification of compliance for product GWP. |  |