# COMMISSION ACTION MATRIX GREEN Building (GREEN) CODE ADVISORY COMMITTEE

## 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, TITLE 24, PART 11 AGENCY: DIVISION OF THE STATE ARCHITECT, DSA-SS 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**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required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* Repealed California language appears ~~upright and in strikeout~~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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-1-1 | **BUY CLEAN CALIFORNIA ACT** | Approve | Accept |  | Propose to adopt new definition that defines a maximum acceptable GWP for each category of eligible materials.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-2 | **CRADLE-TO-GATE** | Approve | Accept |  | 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**: No Action Required. |  |
| DSA-SS 01/22-1-3 | **CRADLE-TO-GRAVE** | Approve | Accept |  | Propose to adopt new definition that aligns with industry standards that defines the entire lifecycle of a product.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-4 | **DECONSTRUCTION** | Approve | Withdrawn |  | Propose to adopt new term which is used in Section 5.408.1.  **DSA**: Withdrawn. |  |
| DSA-SS 01/22-1-5 | **ELECTRIC VEHICLE CHARGING STATION (EVCS)** | Approve | Accept |  | Propose to adopt new definition for EVCS.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-6 | **ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE)** | Approve | Accept |  | Propose to modify existing definition to add “personnel protection system” to align with 2022 California Electrical Code.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-7 | **TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD)** | Approve | Accept |  | Propose to adopt new definition that addresses a third party verified report that summarizes how product impact the environment.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-8 | **PRODUCT-SPECIFIC EPD** | Approve | Accept |  | Propose to adopt new definition that identifies environmental impacts attributed to product design and manufacturer across multiple facilities.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-9 | **FACTORY-SPECIFIC EPD** | Approve | Accept |  | Propose to adopt new definition that identify environmental impacts to single manufacturer and manufacturing facility.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-10 | **INDUSTRY-WIDE EPD (IW-EPD)** | Approve | Accept |  | 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**: No Action Required. |  |
| DSA-SS 01/22-1-11 | **LEVEL 1 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** | Approve | Accept |  | Propose to adopt new definition for Level 1 EV charging receptacle.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-12 | **LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT** | Approve | Accept |  | Propose to adopt new definition for Level 2 EVSE.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-13 | **LOW POWER LEVEL 2 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** | Approve | Accept |  | Propose to adopt new definition for Low power Level 2 EV charging receptacle.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-1-14 | **REFERENCE STUDY PERIOD** | Approve | Accept |  | Propose to adopt new definition that identifies life cycle assessment for the period of use for the building.  DSA: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-2-1 | **301.4.2.5**  **Alterations and additions (e) parking** | Approve | Accept |  | Propose new scoping section for additions and alterations to existing parking facilities.  **DSA**: No Action Required |  |
| DSA-SS 01/22-2-2 | **301.4.2.6**  **Alterations and additions (e) buildings** | Approve | Accept |  | Propose new scoping section for additions and alterations to existing buildings.  **DSA**: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-3-1 | **5.105 Deconstruction and Reuse of Existing Structures ~~(Reserved)~~** | Further Study | Disagree |  | Propose to repeal “Reserved” from the Title.  **CAC:** Further Study under Criteria #4.  Suggestion to add exception for historic buildings to retain be able to apply the California History Code.  **DSA**: Historical code to be considered in future code cycle. |  |
| DSA-SS 01/22-3-2 | **5.105.1** **Scope**  **& Exception** | Further Study | Accept |  | 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.  **CAC:** Suggestion to add the word “altered” for area.  **DSA**: Revised as recommended. |  |
| DSA-SS 01/22-3-3 | **5.105.2 Reuse of existing building** | Further Study | Disagree |  | Propose to adopt new section addressing the reuse of existing buildings primary structural elements.  **DSA**: This recommendation was done for all of Item 3. however, this code section was not affected by further study. |  |
| DSA-SS 01/22-3-4 | **5.105.2.1 Verification of compliance & Note** | Further Study | Disagree |  | Propose to adopt new section requiring documentation to demonstrate compliance.  **DSA**: This recommendation was done for all of Item 3. however, this code section was not affected by further study. |  |
| DSA-SS 01/22-3-5 | **5.105.3** **Deconstruction (reserved)** | Further Study | Disagree |  | This section is added as a place holder for future use to address the deconstruction portion of the main section.  **DSA**: This recommendation was done for all of Item 3. however, this code section was not affected by further study. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-4-1 | **~~5.106.5.3~~**  **5.106.5.6**  **EV charging public schools and Community colleges** | Approve | Accept |  | 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**: No Action Required. |  |
| DSA-SS 01/22-4-2 | **5.106.5.6 Exceptions** | Approve | Accept |  | Propose to amend the Exceptions for DSA-SS.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-3 | **~~5.106.5.3.1~~ 5.106.5.6.1 EV capable spaces w/ ~~Note~~** | Approve | Accept |  | Propose to renumber the existing code section for EV capable spaces to a DSA-SS specific code section and repeal Note.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-4 | **TABLE ~~5.106.5.3.1~~ 5.106.5.6.1 w/ footnotes** | Approve | Accept |  | Propose to renumber the title for the table and make changes to column 3 and footnotes.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-5 | **~~5.106.5.3.2~~**  **5.106.5.6.2**  **Electric vehicle charging stations (EVCS)** | Further Study | Disagree |  | 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.  **CAC:** Further study under Criteria #4. Suggestion to review and consider adding language that “at least one Level 2 EVSE shall be provided”.  **DSA:** After further study, no changes made refer to ISOR for more information. |  |
| DSA-SS 01/22-4-6 | **5.106.5.6.2.1**  **Reduced number of EV capable spaces** | Approve | Accept |  | Propose to add a new section number and title to existing code language with other edits.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-7 | **5.106.5.6.2.2**  **Multiple Connectors** | Approve | Accept |  | Propose to add a new section number and title to existing code language with other edits.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-8 | **~~5.106.5.3.3~~**  **5.106.5.6.2.3**  **Use of automatic load management systems (ALMS)** | Approve | Accept |  | Propose to renumber the existing code section for ALMS to a DSA-SS specific code section with other amendments.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-9 | **~~5.106.5.3.4~~**  **~~Accessible EVCS~~** | Approve | Accept |  | Repeal existing section about Accessible EVCS  **DSA**: No Action Required |  |
| DSA-SS 01/22-4-10 | **5.106.5.6.3**  **EVCS alternative compliance** | Approve | Accept |  | Propose to adopt new section for new power allocation method for EVCS.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-11 | **Table 5.106.5.6.3** | Approve | Accept |  | Propose to adopt new power table for new power allocation method.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-12 | **5.106.5.6.4**  **EVCS for alterations of or additions to parking facilities** | Approve | Accept |  | Propose to adopt new section for additions and alterations for parking facilities.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-13 | **5.106.5.6.4.1**  **Alterations of and additions to parking facilities** | Approve | Accept |  | Propose to adopt new sub section for Alterations of and additions to parking facilities |  |
| DSA-SS 01/22-4-14 | **5.106.5.6.4.2**  **Alterations consisting of the installation of photovoltaic** | Approve | Accept |  | Propose to adopt new sub section Alterations consisting of the installation of photovoltaic systems.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-4-15 | **5.106.5.6.5 Requirement to install EVSE w/ Exception** | Approve | Accept |  | Propose to adopt new sub section with exception for requirement to install EVSE.  **DSA**: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-5-1 | **5.401.1 Scope** | Approve | Accept |  | Propose to modify section to provide GHG emission reduction and provide clarity.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-5-2 | **5.402 Definitions** | Approve | Accept |  | Propose to add new terms to this section.  **DSA**: No Action Required. |  |

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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-6-1 | **5.408.1 Construction waste management** | Further Study | Withdraw |  | Propose to modify existing section to include industry terms and clarify the types of nonhazardous building waste.  **CAC:** Further study under Criteria #6. Suggestion to remove the word “organic” from materials.  **DSA**: Withdrawn. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-7-1 | **5.409 Life cycle assessment ~~(Reserved)~~** | Approve | Accept |  | Propose to repeal “Reserved” from the Title.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-7-2 | **5.409.1 Scope** | Approve | Accept |  | Propose to adopt new scoping section for newly constructed buildings >50,000 sq ft to comply with carbon reduction paths.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-7-3 | **5.409.2 Whole building life cycle assessment** | Approve | Accept |  | Propose to adopt new section which identifies whole building life cycle assessment “cradle-to-grave.”  **DSA**: No Action Required. |  |
| DSA-SS 01/22-7-4 | **5.409.2.1 Building components** | Approve | Accept |  | Propose to adopt new sub-section which clarifies which building components are included in life cycle analysis.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-7-5 | **5.409.2.2 Reference study period** | Approve | Accept |  | Propose to adopt new sub-section which specifies 60 years assumed building lifespan.  **DSA**: No Action Required |  |
| DSA-SS 01/22-7-6 | **5.409.2.3 Verification of compliance & Notes** | Approve | Accept |  | Propose to adopt new sub-section with Notes which specifies GWP analysis to be included in construction documentation.  **DSA**: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-8-1 | **5.409.3 Product GWP compliance – prescriptive path** | Approve | Accept |  | Propose to adopt new section addressing additional compliance paths for acceptable GWP values.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-8-2 | **5.409.3.1 & Exception** | Approve | Accept |  | 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**: No Action Required. |  |
| DSA-SS 01/22-8-3 | **Exception EQUATION 5.409.3.1** | Approve | Accept |  | Propose to add new calculation, a weighted average maximum GWP using the exception equation.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-8-4 | **5.409.3.2 Verification of compliance & Note** | Approve | Accept |  | Proposes to adopt new section which specifies calculations to demonstrate compliance to Type III EPDs in construction documentation.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-8-5 | **Table 5.409.3 &**  **Footnotes** | Approve | Accept |  | Propose to adopt new Table and footnotes with product GWP limits.  **DSA**: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-9-1 | **601.1** | Approve | Accept |  | Editorial changes to section main paragraph.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-9-2 | **ACI CT-21** | Approve | Accept |  | Propose to add new referenced standard to the reference standards table.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-9-3 | **EN 15804**  **EN 15978-2011** | Approve | Accept |  | Propose to add new referenced standards to the reference standards table.  **CAC:** Suggestion to review the referenced standards for missing year.  **DSA**: Reference listings do not occur in body of technical requirements. Those listings occur in chapter 35 referenced standards. No Action Required. |  |
| DSA-SS 01/22-9-4 | **ISO 14044:2006**  **ISO 21930-2017**  **ISO 21931-2017** | Approve | Accept |  | Propose to add new referenced standards to the reference standards table.  **CAC:** Suggestion to review the referenced standards to update the year for ISO 21931-2017.  **DSA**: No Action Required. |  |

### 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** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| DSA-SS 01/22-10-1 | **Worksheet (WS-3) Building Reuse** | Approve | Accept |  | Propose to add new worksheet for building reuse to assist in showing compliance.  **DSA**: No Action Required. |  |
| DSA-SS 01/22-10-2 | **Worksheet (WS-4) Whole Building Life Cycle Assessment** | Approve | Withdraw |  | Propose to add new worksheet for whole building life cycle assessment assist in showing compliance.  **DSA**: Post CAC item withdrawn. |  |
| \DSA-SS 01/22-10-3 | **Worksheet (WS-5) Product GWP Compliance Prescriptive Path** | Approve | Withdraw |  | Propose to add new worksheet, verification of GWP compliance.  **DSA**: Post CAC item withdrawn. |  |
| DSA-SS 01/22-10-4 | **Worksheet (WS-6) Documentation of Compliance of Existing Building Reuse Tier 1 & Tier 2** | Not reviewed by CAC | Withdraw |  | Propose to add new worksheet to show compliance for building reuse Tiers 1 & 2.  **CAC:** No action taken. Agency withdrew the proposal at the CAC meeting.  **DSA**: Withdrawn, DSA does not adopt voluntary measures |  |
| DSA-SS 01/22-10-5 | **Worksheet (WS-7) Product GWP Compliance Prescriptive Path Tier 1 & 2** | Not reviewed by CAC | Withdraw |  | Propose to add new worksheet for verification of compliance for product GWP.  **CAC:** No action taken. Agency withdrew the proposal at the CAC meeting.  **DSA**: Withdrawn, DSA does not adopt voluntary measures. |  |