DOCKETED	
Docket Number:	22-DECARB-02
Project Title:	Building Decarbonization and Electric Vehicle Charging Equipment Web Guide
TN #:	246085
Document Title:	EV Charging Infrastructure Information from the CA Statewide Utility Building Codes & Appliance Standards Team
Description:	Descriptions and links to four EV Charging Infrastructure (EVCI) resources 1. Fact Sheet on 2022 CALGreen Residential and Nonresidential EV Charging Requirements. // 2. Summary of Locally Adopted Energy Ordinances, Including All-electric Ordinances and EV Charging Infrastructure Ordinances. // 3. Light-Duty EV Charging Infrastructure Analysis for Title 24, Part 11 (CALGreen). // 4. Medium- and Heavy-Duty EV Charging Infrastructure Cost Analysis for Title 24, Part 11 (CALGreen).
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Comment on Docket #22-DECARB-02, Building Decarbonization and Electric Vehicle Charging Equipment Website

CALIFORNIA STATEWIDE UTILITY CODES AND STANDARDS TEAM

September 13, 2022

The California Statewide Utility Codes and Standards (C&S) Team appreciates the opportunity to provide information in response to the California Energy Commission's (CEC) Request for Information (RFI) seeking to inform a new webpage providing information, resources, and tools about building decarbonization and electric vehicle (EV) charging equipment

The C&S Team actively supports code-setting bodies in developing and revising building energy codes and standards. The program's objective is to achieve significant energy savings and assist in meeting other energy-related state policy goals through the development of reasonable, responsible, and cost-effective code changes. This program is funded by California utility customers and administered by Pacific Gas and Electric (PG&E), San Diego Gas & Electric (SDG&E®) and Southern California Edison (SCE) under the auspices of the California Public Utilities Commission (CPUC).

In response to this RFI, the above-mentioned utilities want to make sure the CEC is aware of the following resources developed by the C&S Team:

1. **Fact Sheet on 2022 CALGreen Residential and Nonresidential EV Charging Requirements.** It provides an overview of the new 2022 CALGreen EV infrastructure requirements for residential and nonresidential construction, effective January 1, 2023.
    a. Website link: https://localenergycodes.com/download/965/file_path/fieldList/CALGreen%202022%20EV%20Charging%20Requirements.pdf
2. **Summary of Locally Adopted Energy Ordinances, Including All-electric Ordinances and EV Charging Infrastructure Ordinances.** It provides summaries of locally adopted ordinances, including jurisdiction, ordinance type, scope, and link to the ordinance.
    a. Website link (overall): https://localenergycodes.com/content/adopted-ordinances
    b. Website link (EV Ordinances for the 2019 Code Cycle appear on page 18): https://localenergycodes.com/download/1259/file_path/fieldList/2019%20Adopted%20Ordinances.pdf
3. **Light-Duty EV Charging Infrastructure Analysis for Title 24, Part 11 (CALGreen).** This report documents various supports provided to the California Air Resource Board (CARB) staff in developing initial proposals for 2022 CALGreen light-duty EV charging

infrastructure requirements for multifamily and nonresidential buildings. The supporting documentation includes a comparison of EV requirements from 37 local jurisdiction reach codes across California, an EV charging infrastructure cost study comparison from previously published reports, and a summary of existing building EV requirements from local reach codes and select international codes. Finally, the report presents recommendations for future code updates, including load shaping to align charging with renewable generation, future proofing considerations to reduce retrofit costs, improving technical power requirements, incorporating automatic load management systems, and establishing minimum performance requirements, accommodating variations in dwell times, and filling data gaps to support future code enhancements.

   a. Website link: https://title24stakeholders.com/wp-content/uploads/2021/09/CALGreen-2022-Light-Duty-EV-Infrastructure-Analysis-09-2021.pdf

4. **Medium- and Heavy-Duty EV Charging Infrastructure Cost Analysis for Title 24, Part 11 (CALGreen).** This report documents various supports provided to CARB staff in developing proposals for 2022 CALGreen Medium- and Heavy-Duty (MHD) EV charging infrastructure requirements. The report reviews the regulatory landscape for EV charging infrastructure and outlines the proposed requirements to enable impactful opportunity charging for visiting MHD EVs at loading spaces for grocery, retail, and warehouse building types. A study, which outlines the benefits and cost analysis featuring nine scenarios shows that these proposed requirements meet the public benefit and purpose of accelerating the electrification of MHD transportation to address greenhouse gas (GHG) reduction and air quality improvement priorities by preparing buildings to host a minimum level of EV charging infrastructure. Further, the new construction requirements will help avoid potentially much more expensive retrofit costs to install the same equipment in the future. The report concludes with recommendations for future work to increase scope and close data gaps.

   a. Website link: https://title24stakeholders.com/wp-content/uploads/2021/09/CALGreen-2022-Medium-and-Heavy-Duty-EV-Charging-Cost-Analysis-2021-09.pdf

If you have any questions, please do not hesitate to reach out to the following contacts:

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