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AB-2075 Energy: electric vehicle charging standards. (2021-2022)

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Assembly Bill No. 2075

CHAPTER 346

An act to amend Section 18941.10 of, and to add Section 18941.17 to, the Health and Safety Code, and to amend Section 25233.5 of the Public Resources Code, relating to energy.

[Approved by Governor September 16, 2022. Filed with Secretary of State September 16, 2022.]

LEGISLATIVE COUNSEL'S DIGEST

AB 2075, Ting. Energy: electric vehicle charging standards.

The California Building Standards Law provides for the adoption of building standards by state agencies by requiring all state agencies that adopt or propose adoption of any building standard to submit the building standard to the California Building Standards Commission for approval and adoption. Existing law requires the California Building Standards Commission to adopt, approve, codify, and publish mandatory building standards for the installation of future electric vehicle charging infrastructure for parking spaces in multifamily dwellings and nonresidential development, as specified. Existing law requires the California Building Standards Commission and the Department of Housing and Community Development, in proposing and adopting those mandatory building standards, to consult interested parties.

This bill would specify the State Energy Resources Conservation and Development Commission (Energy Commission) is an interested party that the California Building Standards Commission and the Department of Housing and Community Development are required to consult with in proposing and adopting those standards. The bill would require the California Building Standards Commission, as part of each triennial California Building Standards Code rulemaking cycle that commences on or after January 1, 2023, to convene a workshop or other collaborative process on electric vehicle charging infrastructure standards, and would require the Energy Commission, as part of its participation in the workshop or collaborative process, to incorporate the most recent update to a specified statewide assessment of electric vehicle charging infrastructure, any relevant electric load forecasts, and the statewide transportation electrification goals, as specified.

Existing law requires the Energy Commission to gather or develop, and publish on the Energy Commission's internet website, guidance and best practices to help certain entities overcome barriers to electrification of buildings and installation of electric vehicle charging equipment that include certain topics, including the development of whole building electrification plans to help building owners prepare for future additions of electrical equipment. Existing law authorizes the building electrification plans to include wiring changes and energy planning to reduce the need for rework and help correctly size distributed energy and energy storage systems to anticipated future needs.

This bill would specify that the anticipated future needs include future voluntary and mandatory vehicle charging standards in the California Building Standards Code.

Vote: majority Appropriation: no Fiscal Committee: yes Local Program: no

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1. Section 18941.10 of the Health and Safety Code is amended to read:

18941.10. (a) (1) The commission shall, commencing with the next triennial edition of the California Building Standards Code (Title 24 of the California Code of Regulations) adopted after January 1, 2014, adopt, approve, codify, and publish mandatory building standards for the installation of future electric vehicle charging infrastructure for parking spaces in multifamily dwellings and nonresidential development.

(2) For purposes of paragraph (1), the Department of Housing and Community Development shall propose mandatory building standards for the installation of future electric vehicle charging infrastructure for parking spaces in multifamily dwellings and submit the proposed mandatory building standards to the commission for consideration.

(b) (1) In proposing and adopting mandatory building standards under this section, the Department of Housing and Community Development and the commission shall use Sections A4.106.6, A4.106.6.1, A4.106.6.2, A5.106.5.1, and A5.106.5.3 of the California Green Building Standards Code (Part 11 of Title 24 of the California Code of Regulations) as the starting point for the mandatory building standards and amend those standards as necessary.

(2) In proposing and adopting mandatory building standards under this section, the Department of Housing and Community Development and the commission shall actively consult with interested parties, including, but not limited to, the State Energy Resources Conservation and Development Commission, investor-owned utilities, municipal utilities, manufacturers, local building officials, commercial building and apartment owners, and the building industry.

SEC. 2. Section 18941.17 is added to the Health and Safety Code, to read:

18941.17. (a) As part of each triennial California Building Standards Code rulemaking cycle that commences on or after January 1, 2023, the commission shall convene a workshop or other collaborative process on electric vehicle charging infrastructure standards.

(b) The workshop or other collaborative process shall include the commission, the Department of Housing and Community Development, the Division of the State Architect, the State Air Resources Board, the State Energy Resources Conservation and Development Commission, and other relevant stakeholders.

(c) The workshop or other collaborative process shall consider, among other things, projected demand for electric vehicle charging infrastructure based on the state's goals.

(d) As part of the State Energy Resources Conservation and Development Commission's participation in the workshop or other collaborative process, the State Energy Resources Conservation and Development Commission shall incorporate the most recent update to the statewide assessment of the electric vehicle charging infrastructure prepared pursuant to Section 25229 of the Public Resources Code, any relevant electric load forecasts, and the statewide transportation electrification goals.

(e) If the State Energy Resources Conservation and Development Commission recommends any electric vehicle charging infrastructure standard as part of the workshop or other collaborative process, the recommended standard shall be cost effective when taken in its entirety and when amortized over the economic life of the infrastructure compared with historic practice. When determining cost effectiveness, the State Energy Resources Conservation and Development Commission shall consider other relevant factors, as required by Sections 18930 and 18935, including, but not limited to, the impact on housing costs, the total statewide costs and benefits of the standard over its lifetime, the economic impact on California businesses, and any alternative approaches and their associated costs.

SEC. 3. Section 25233.5 of the Public Resources Code is amended to read:

25233.5. To help building owners to decarbonize buildings and add energy storage or electric vehicle charging capacity to buildings, the commission, in coordination with the Public Utilities Commission, the Department of Housing and Community Development, the California Building Standards Commission, and other relevant state agencies, shall gather or develop, and publish on the commission's internet website, guidance and best practices to help building owners, the construction industry, and local governments overcome barriers to electrification of buildings and installation of electric vehicle charging equipment that include any of the following topics:

(a) Availability of electrical equipment for replacement of the common fossil-fuel-powered equipment within buildings, including high-efficiency options that can minimize electrical service capacity requirements.

(b) Approaches for energy budgeting to fit electrical replacements and vehicle-charging equipment within the existing electrical service capacity of the building whenever possible, including guidance on how to maximize the use of the nonconcurrent electrical load that is allowed under the California Electrical Code (Part 3 (commencing with Section 89.101.1) of Title 24 of the California Code of Regulations).

(c) Technologies that allow the noncoincidental sharing of electrical circuits.

(d) The development of whole building electrification plans to help building owners prepare for future additions of electrical equipment, even if only a portion of equipment will be replaced, or energy storage or vehicle charging added, during an initial project. The plan may include wiring changes and energy planning to reduce the need for rework and help correctly size distributed energy and energy storage systems to anticipated future needs, including anticipated future voluntary and mandatory vehicle charging standards in the California Building Standards Code.

(e) Model permit applications, an eligibility checklist for expedited permitting, and a concise inspection list for the most common building electrification, energy storage, or vehicle charging installation projects that would be suitable for adoption by local governments seeking to streamline and standardize permitting and inspections.