



REACH CODE NEWS BRIEF: JULY 2022

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Draft Results: Multifamily New Construction Cost-Effectiveness Analysis

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ENERGY COMMISSION APPROVES REACH CODES FOR FOUR CITIES

At its monthly Business Meeting on July 13, 2022, the Energy Commission approved reach codes adopted by four communities. The approved ordinances included:



City of Emeryville

- Residential new construction must be all-electric
- New hotels/motels and high-rise multifamily must install solar photovoltaic systems

City of Encinitas

- Newly constructed residential and nonresidential buildings must be all-electric
- New and major alterations for nonresidential, high-rise residential, and motel/hotel buildings must install PV systems
- Existing single-family residential buildings include energy efficiency improvements where building permit valuations of alterations and additions exceeds \$50,000
- Nonresidential, high-rise residential, and hotel/motel buildings include energy efficiency improvements where building permit valuations of alterations exceeds \$200,000
- Expanded electric vehicle charging requirements in new buildings

City of Half Moon Bay

- Solar photovoltaic requirements for nonresidential and hotel/motel new construction
- All new single-family residential units, duplexes, triplexes, and ADUs shall be prewired for the installation of battery storage
- Expanded electric vehicle charging requirements in new residential buildings.

City of Solana Beach

- All newly constructed non-residential properties must install photovoltaic (PV) systems in accordance with sizing requirements
- In new residential and commercial construction, all space conditioning, water heating and clothes dryer systems will be electric only
- All new residential and non-residential construction must be pre-wired for battery storage.
- All new residential and non-residential construction must install sufficient electrical capacity for future electrification of all non-electric appliances.
- Expanded electric vehicle charging requirements in new buildings

Visitors can browse our [website](#) for detailed information about adopted reach codes throughout the state ([map view](#) or the [adopted ordinances list](#)).

UPCOMING EVENTS

- 3-story All-electric Prescriptive: cost-effective for most CZs under both metrics
- 3-story All-electric Prescriptive + PV: cost-effective for all CZs under both metrics
- 5-story All-electric Prescriptive: not cost-effective under either metric for nearly all CZs

specific types of construction regarding future installation of medium- and heavy-duty EVSE. These building types include grocery stores, retail, and warehouse buildings with planned off -street loading spaces.

The new Fact Sheet is available [here](#).

- 5-story All-electric Prescriptive + PV: cost-effective under both metrics for nearly all CZs
- 3-story Mixed-fuel Efficiency packages: cost-effective under both metrics for CZs 1, 9-16
- 3-story Mixed-fuel Efficiency+PV+Battery packages: cost-effective under On-bill metric for most CZs, about half of CZs under TDV metric

Next steps for the analysis team will be to update results to the recently released certified version of the software (CBECC 2022.1.0) and conduct analyses for efficiency packages for the 5-story prototype.

Webinar materials are available for download [here](#) and the webinar recording is available on the LEC YouTube channel [here](#).



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