

DOCKETED	
Docket Number:	19-BSTD-06
Project Title:	Local Ordinances Exceeding the 2019 Energy Code
TN #:	234344
Document Title:	San Mateo County - 2019 Overview of Cost Effectiveness Studies
Description:	THIS DOCUMENT SUPERSEDES TN 233814-5
Filer:	Danuta Drozdowicz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/18/2020 12:21:44 PM
Docketed Date:	8/18/2020

OVERVIEW OF SUPPORTING COST EFFECTIVENESS STUDIES

REFERENCE STUDIES:

1. Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction
 Prepared For: Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric Company
 Prepared By: Frontier Energy, Inc., Misti Bruceri & Associates, LLC
 Last Modified: July 17, 2019
2. Title: 2019 Nonresidential New Construction Reach Code Cost Effectiveness Study
 Prepared For: Christopher Kuch, Codes and Standards Program, Southern California Edison Company
 Prepared By: TRC, EnergySoft.
 Last Modified: July 25, 2019

PROPOSED REQUIREMENTS

All newly constructed buildings shall be all-electric, defined as no natural gas or plumbing installed within the building, and that uses electricity as the source of energy for space heating, water heating, cooking, and clothes drying appliances. Some exceptions are allowed, as summarized in the table below, although electrical pre-wiring is required for any exception.

Proposed Reach Code	Building Electrification	Solar PV	Reference Study
Single and Two-Family New Construction	All electric;	Not Applicable—Solar already required by Energy Code.	Refer to Reference Study 1: Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction
Multi-family Buildings	All electric; Exception if there is not an all-electric prescriptive compliance pathway, or if the building is not able to show compliance using a commercially available technology via the alternative calculation method.	2 Watts per square foot Exceptions for buildings with limited solar access or vegetative roofs.	Refer to Reference Study 1: Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction And Refer to Reference Study 2: 2019 Nonresidential New Construction Reach Code Cost Effectiveness Study
Commercial Buildings	All electric;	2 Watts per square foot	Refer to Reference Study 2: 2019 Nonresidential New

Att. 4a Overview of cost effectiveness studies

	<p>Exception for space conditioning systems serving laboratory areas.</p> <p>Exception if there is not an all-electric prescriptive compliance pathway, or if the building is not able to show compliance using a commercially available technology via the alternative calculation method.</p> <p>Exception for restaurants and employee kitchens, if based on a business-related reason.</p> <p>Exception for publicly-owned emergency operation centers.</p>	<p>Exceptions for buildings with limited solar access or vegetative roofs.</p>	<p>Construction Reach Code Cost Effectiveness Study</p>
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