DOCKETED		
Docket Number:	19-BSTD-06	
Project Title:	Local Ordinances Exceeding the 2019 Energy Code	
TN #:	238698-6	
Document Title:	City of Alameda - 2019 Overview of Cost Effectiveness Studies	
Description:	Description: Plain text of the City of Alameda Overview of Cost Effectiveness Studies supporting Ordinance 3300	
Filer:	Danuta Drozdowicz	
Organization:	California Energy Commission	
Submitter Role:	Commission Staff	
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## OVERVIEW OF SUPPORTING COST EFFFECTIVENESS STUDIES

## **REFERENCE STUDIES:**

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: August 1, 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

 Title: 2019 Mid-Rise New Construction Reach Code Cost-Effectiveness Study Prepared For: Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric

Company

Prepared By: Frontier Energy, Inc., Misti Bruceri & Associates, LLC, EnergySoft

Last Modified: June 22, 2020

## 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;  Exception for Accessory Dwelling Units  Exception for buildings with a planning entitlement or Development Agreement  Exception if there is not an all-electric prescriptive compliance pathway, or if the building is not able to show compliance using a commercially	Not Applicable – Solar PV already prescriptively required by Energy Code.	Refer to Reference Study 1: Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction

## Att. 5a Overview of cost effectiveness studies

	available technology via the alternative calculation method.		
Multi-family Buildings	All electric;  Exception for buildings with a planning entitlement or Development Agreement  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.	Solar PV on the solar zone  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 3: 2019 Mid-Rise New Construction Reach Code Cost Effectiveness Study
Commercial Buildings	All electric;  Exception for space conditioning systems serving buildings with F, H, or L occupancies.  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.  Exception for cooking appliances for a commercial kitchen serving the public or an employee cafeteria in a newly constructed building.	Solar PV on the solar zone  Exceptions for buildings with limited solar access or vegetative roofs.	Refer to Reference Study 2: 2019 Nonresidential New Construction Reach Code Cost Effectiveness Study