

DOCKETED	
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OVERVIEW OF SUPPORTING COST EFFECTIVENESS STUDIES

REFERENCE STUDY:

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: 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

PROPOSED REQUIREMENTS

SUMMARY

RESIDENTIAL PERFORMANCE AND PRESCRIPTIVE

Proposed Code Requirements	Reference Study
Single-Family/Duplex New Construction	
1. All-Electric Required—(includes Heating/Cooling, Water Heater, Clothes Dryer, Cooking Appliances, Fireplace and Fire Pit) (SEC. 8.20.8 - Subsection 101.10.1.1.2)	Refer to Reference Study 1:2019 Cost-effectiveness Study Low-Rise Residential New Construction (Attachment 4c)
Multi-Family New Construction 3 stories or less	
1. All-Electric Required —(includes Heating/Cooling, Water Heater, Clothes Dryer, Cooking Appliances, Fireplace and Fire Pit) (SEC. 8.20.9 - Subsection 101.10.1.1.3) a. For-Profit Kitchen applicants may appeal to use natural gas for cooking equipment, if listed electrical equivalent alternative is not available. b. Prewiring is required for future use of electric appliances where natural gas is installed.	Refer to Reference Study 1:2019 Cost-effectiveness Study Low-Rise Residential New Construction (Attachment 4c)

NONRESIDENTIAL PERFORMANCE AND PRESCRIPTIVE

Proposed Code Requirements	Reference Study
Nonresidential New Construction – All Occupancies	
<p>1. Installation of solar PV on fifty (50) percent of roof area. <i>(Multifamily: SEC. 8.20.9 - Subsection 101.10.1.1.3; Hotel/motel: SEC. 8.20.10 - Subsection 101.10.1.2.2; Nonresidential: SEC. 8.20.11 - Subsection 101.10.1.2)</i></p> <p>a. Exception: Per Sections 102.3, 102.3.1 & 102.3.2 of the code, a project may submit for an exception by providing documentation that the required percentage of PV installation will over-generate kWh required to operate the proposed structure on an annual basis.</p> <p>b. Exception: Multifamily buildings of 3 stories or less must only install solar PV as required by the 2019 Energy Code</p>	<p>Refer to Reference Study 2: 2019 Nonresidential New Construction Reach Code Cost Effectiveness Study (Attachment 4b)</p>
<p>Multi-Family (3+ Units), Mixed-Use, Hotel/Motel</p> <p>2. All-Electric Required — (includes Heating/Cooling, Water Heater, Clothes Dryer, Cooking Appliances, Fireplace and Fire Pit) <i>(Multifamily: SEC. 8.20.9 - Subsection 101.10.1.1.3; Hotel/motel: SEC. 8.20.10 - Subsection 101.10.1.2.2; Nonresidential: SEC. 8.20.11 - Subsection 101.10.2.2)</i></p> <p>a. For-Profit Kitchen applicants may appeal to use natural gas for cooking equipment, if listed electrical equivalent alternative is not available.</p> <p>i) Prewiring is required for future use of electric appliances where natural gas installed</p> <p>Commercial (SEC. 8.20.11 - Subsection 101.10.2.2)</p> <p>3. All-Electric—Heating/Cooling, Water Heater, Clothes Dryer, and Cooking Appliances</p> <p>a. Natural Gas Allowed in F (Factory Industrial), H (Hazardous Materials), and L (Laboratories) Occupancies</p> <p>i) Prewiring is required for future use of electric appliances where natural gas installed</p> <p>b. For-Profit Kitchen applicants may appeal to use natural gas for cooking equipment, if listed electrical equivalent alternative is not available.</p> <p>i) Prewiring is required for future use of electric appliances where natural gas installed</p>	<p>Refer to Attachment 4d – Cost Effectiveness Memo</p>