

DOCKETED	
Docket Number:	19-BSTD-06
Project Title:	Local Ordinances Exceeding the 2019 Energy Code
TN #:	235535-2
Document Title:	Redwood City - 2019 List of Supporting Cost Effectiveness Studies
Description:	Plain text of the list of supporting cost effectiveness studies for the Redwood City local ordinance application.
Filer:	Danuta Drozdowicz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	11/8/2020 6:46:42 PM
Docketed Date:	11/9/2020

CITY OF REDWOOD CITY

List 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: 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
3. 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

City of Redwood City

5a. Summary Table for Cost Effectiveness Studies

Proposed Reach Code	Building Electrification	Solar PV	Reference Study
<p>Single Family and Low Rise Residential New Construction</p>	<p>All electric; 1) Exception for projects with planning entitlements approved prior to the adoption of these Reach Codes 2) An applicant may request an exception for technical infeasibility for consideration. 3) Exception for 100% affordable housing developments for persons earning 80% or less of the area median income 4) Exception from all-electric requirements for accessory dwelling units and junior accessory dwelling units</p>	<p>Not Applicable – Solar already required by Energy Code.</p>	<p>Refer to Reference Study 1: Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction</p>
<p>Mid-rise to High-Rise Residential Buildings</p>	<p>All electric; 1) Exception for projects with planning entitlements approved prior to the adoption of these Reach Codes 2) An applicant may request an exception for technical infeasibility for consideration. 3) Exception for 100% affordable housing developments for persons earning 80% or less of the area median income 4) Exception from all-electric requirements for accessory dwelling units and junior accessory dwelling units</p>	<p>2 Watts per square foot Exceptions for buildings with limited solar access or vegetative roofs.</p>	<p>Refer to Reference Study 1: Title: 2019 Cost-effectiveness Study: Low-Rise Residential New Construction Refer to Reference Study 3: 2019 Mid-Rise New Construction Reach Code Cost Effectiveness Study</p>

City of Redwood City

5a. Summary Table for Cost Effectiveness Studies

Proposed Reach Code	Building Electrification	Solar PV	Reference Study
<p>Non-residential Buildings</p>	<p>All electric; Refer to Reference Study 3: 2019 Mid-Rise New 1) Exception for non-electric space conditioning, water heating, and process load systems in Hospitals 2) Exception for non-electric space conditioning/water Heating systems in buildings with scientific laboratory areas 3) Exception for non-electric cooking appliances in for restaurants/kitchens in non-residential Buildings 4) Exception for F or H Occupancies, and scientific laboratory areas to have gas piping for use in manufacturing, research, and development 5) Exception for projects with planning entitlements approved prior to the adoption of these Reach Codes 6) An applicant may request an exception for technical infeasibility for consideration.</p>	<p>Non-residential buildings with three habitable stories or fewer: Buildings less than 10,000 Square Feet, 3 kilowatt minimum Buildings greater than 10,000 Square Feet, 5 kilowatt minimum Exception: As an alternative to a solar photovoltaic system, the building may provide a solar hot water system (solar thermal) with a minimum 40 square feet of solar thermal panels, additional to any other solar thermal equipment otherwise required for compliance with Part 6. Exception: As an alternative to a solar photovoltaic system, the building may have 25% or more of the roof area covered with vegetation.</p>	<p>Refer to Reference Study 2: 2019 Nonresidential New Construction Reach Code Cost Effectiveness Study Refer to Reference Study 3: 2019 Mid-Rise New Construction Reach Code Cost Effectiveness Study</p>