DOCKETED	
Docket Number:	25-BSTD-04
Project Title:	Applications for Local Ordinances Exceeding the 2025 Energy Code
TN #:	268903
Document Title:	City of Menlo Park Demonstration of Cost-Effectiveness
Description:	Plain text of the City of Menlo Park demonstration cost-effectiveness
Filer:	Anushka Raut
Organization:	California Energy Commission
Submitter Role:	Commission Staff
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Docketed Date:	3/2/2026

Single Family AC to Heat Pump

Referenced Study

Title: 2025 Cost-Effectiveness Study: Single Family AC to Heat Pump Replacement
Backup Data: Single Family AC to HP Study Data
Prepared for: Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric Company
Prepared by: Frontier Energy Inc., Misti Bruceri & Associates, LLC
Last Modified: 2025/08/08

Proposed Requirements

The ordinance requires that projects in existing single-family occupancies involving replacement or alteration of an existing air conditioning system or installation of a new air conditioning system either include a heat pump space conditioner as the primary heating system or install specific energy efficiency measures.

Cost-Effectiveness Results

Cost effectiveness results are summarized for each heat pump option (Dual fuel existing furnace, Standard Efficiency, and High Efficiency) by building vintage (Pre-1978, 1978-1991, 1992-2010) and rate tariffs (standard and CARE). The tables are reported for all heat pump types for the 1992-2010 vintage with standard tariffs in Tables 12-14 on pages 23-25. Cost effectiveness tables for CARE tariffs for all heat pump types of the 1992-2010 vintage are shown in Tables 15-17 on pages 26-28. For the two older vintages, all cost effectiveness results are recorded in Appendix 6.2.

Single Family FlexPath

Referenced Studies

Title: Single Family Residential Retrofits (FlexPath and Specific Measures)
Backup Data: SF Retrofits Study Data
Prepared for: Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric Company
Prepared by: Frontier Energy Inc., Misti Bruceri & Associates, LLC
Last Modified: 2024/04/25

Last Modified: 2021/08/27

Title: Application of 2022 Studies to 2025 Energy Code: Existing Single Family Building Upgrades
Prepared for: Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric Company
Prepared by: Frontier Energy Inc., Misti Bruceri & Associates, LLC
Last Modified: 2025/08/15

Proposed Requirements

The ordinance requires that major alterations or additions above a certain size select a subset of energy measures from a list to incorporate into their scope.

Cost-Effectiveness Results

Please see attached output from the Cost-Effectiveness Explorer. The memo describes the application of the results of the previous three cost-effectiveness studies to the current ordinance.