

State of California

Memorandum



Date: October 20, 2022

To: Ryan Cho, Southern California Edison (SCE); Jay Bhatka, SCE; Danielle Dragon, Pacific Gas and Electric (PG&E); Anders Danyrd, Southern California Gas (SCG); Ed Reynoso, San Diego Gas and Electric (SDG&E); John Zwick, (SDG&E); Nancy Goddard, PacifiCorp; Andres Marquez, (SCG); Andres Fergadiotti, (SCE); Henry Liu, (PG&E); Kenny Liljestrom, (SDG&E)

CC:

From: Peter Biermayer P.E., Utilities Engineer, EE Planning & Forecasting Section, Energy Division, CPUC

Subject: Disposition Approving Large Heat Pump Water Heater, Commercial and Multifamily, Fuel Substitution – Measure Package SWWH028-02

1. Discussion and Direction

The California Public Utilities Commission (CPUC) approves the statewide measure package for Large Heat Pump Water Heater, Commercial and Multifamily, Fuel Substitution – SWWH028-02. This is a revision to an existing measure package SWWH028-01. The measure package was updated in accordance with Resolution E-5152. SWWH028-02 will become effective on January 1, 2023. Measure package SWWH028-01 will be set to expire on December 31, 2022.

2. Measure Package Summary

The measure updates were in response to Resolution E-5152 to update the measure package for PY2023. This measure package meets all fuel substitution guidance document requirements.¹

¹ Fuel Substitution Technical Guidance for Energy Efficiency, V1.1, dated 10/31/2019.
<https://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=6442463564>

Key updates include:

- Updated measure offerings based on full system capacity and efficiency
- Added data collection requirements per Resolution E-5152.
- Updated material and labor costs per Resolution E-5152.
- Updated measure package with DEER Water Heater Calculator v5.1 impacts.
- Added measure load shapes corresponding to DEER Measure Tech IDs
- Updated refrigerant avoided cost calculations (RACC)
- Updated fuel substitution calculations
- Updated eligible building vintage

3. Critical Review Issues

Reviewers confirmed that all updates were completed in accordance with CPUC policy and guidance. The Ex Ante Review team had minor comments for Southern California Edison (SCE) requesting minor text edits, the most up-to-date references, and permutation updates to align with DEER Water Heater Calculator v5.1 values. SCE has addressed the review comments in full and the Ex Ante Review Team recommends measure approval.