

State of California

Memorandum



Date: April 18, 2022

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CC:

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

Subject: Disposition Approving Gas Heat Pump Water Heater, Multifamily – Measure Package SWWH033-01

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## 1. Discussion and Direction

The California Public Utilities Commission (CPUC) approves the statewide measure package for Gas Heat Pump Water Heater, Multifamily – SWWH033-01. This is a new measure package and will become effective upon approval<sup>1</sup> and will expire on December 31, 2022. On January 10, 2023, the federal standard for small commercial natural-gas fired boilers between 300 and 2,500 kBtu/hr will update from a minimum efficiency of 0.80, to a minimum efficiency of 0.84. For PY2023, Program Administrators (PAs) are required to update the measure package to reflect the new Industry Standard Practice baseline (ISP) matching the federal standard, per Resolution E-5152. This updated measure package shall be submitted to CPUC for review by June 1, 2022.

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<sup>1</sup> New measure packages are effective upon approval

## **2. Measure Package Summary**

This new measure package is for the addition of a gas absorption heat pump to an existing standard natural gas fired hot water boiler. The secondary hot water loop with the gas absorption heat pump will target the base load of the multifamily building leaving the existing boiler to cover peak and trim loads. The measure case specifications are gas absorption heat pump (< 200 kBtu/hr) and the base case specifications are standard efficiency gas centralized hot water boilers between 300 and 2,500 kBtu/hr.

## **3. Critical Review Issues**

Efficiency performance data is coming from manufacturers data base and not from third-party testing. CPUC has allowed this practice on previous measure packages where there is a new technology type or limited number of manufacturers. There is no third-party certification database, as there is for other HVAC equipment. The modeling approach was developed specifically for this measure package. Future updates for this measure should include the most up-to-date testing and manufacturers data available.

This measure package will expire on December 31, 2022, therefore, the PY2023 version of this measure offering must be revised to include the federal standard baseline efficiency change from 0.80 to 0.84 per Resolution E-5152. This updated measure package shall be submitted to CPUC for review by June 1, 2022.