



# Proposed Residential and Commercial (ResCom) Measure List

2023 Potential and Goals Study

August 12, 2022



# 2023 Potential and Goals Study Overview

- The 2023 Potential and Goals (PG) study builds upon refinements and improvements of past study cycles to inform the energy efficiency goals related to policy questions CPUC staff are considering.
- The draft workplan for the 2023 PG study was presented to stakeholders via a [workshop](#) on August 2, 2022.
- This stakeholder communication is a follow-up to the August 2<sup>nd</sup> workshop seeking additional input from stakeholders on what Residential and Commercial measures should be considered for inclusion in the 2023 PG study.
- A supplemental spreadsheet of the Guidehouse team's proposed measures is being released for stakeholder review. The rest of this deck orients stakeholders to that spreadsheet and poses questions for consideration.

# Proposed ResCom Measure List

## Workbook Overview

- See the full proposed measure list in the workbook: **2023 PG Study ResCom Measure List\_Public\_2022-08-12.xlsx**.
- The '**Proposed Measure List**' tab contains the full list of measures.
  - Measures are organized by *Sector, End Use, Fuel Type, Technology Group, Base Year Efficiency Level, and Replacement Type*.
  - There is also a *Fuel Sub Tech Group* column, which is marked as TRUE if a given measure is in a *Technology Group* with fuel substitution.
  - The *Flag* column indicates additions and adjustments to the measure list, and the *Notes* column describes the reason for the addition or adjustment.
- The '**Measures Removed**' tab lists 2021 PG Study measures that we plan to remove from the 2023 PG Study and the reason for the removal.

# Update Methodology

## Guidehouse completed the following to update the measure list for the 2023 PG Study:

- Used results from 2021 PG Study to identify highest- and lowest- **impact** measures
- Identified **potential new measures** from eTRM measure packages and IOU budget filings (sourced from CEDARS)
- Used the following criteria to determine measures to add:
  - Prioritize new **fuel substitution** measures
  - Prioritize measures that **compete** with existing **high impact** measures (e.g., additional SEER levels for residential air conditioners)
  - Prioritize measures with high cost-effectiveness and high CEDARS claims
- Removed measures that were previously used only to model DR co-benefits
- Checked that the measure list covers a large majority of IOU program budget filings
  - Based on a review of 2027 IOU Budget Filings in CEDARS, Guidehouse estimates that the current proposed measure list covers approx. **97% of electric savings** and **85% of gas savings**

# Summary of Updates

## Key Changes vs. 2021 Measure List

### New Measures

- New ***fuel sub*** technology groups/measures: Com Central HVAC (Large and Small); Com Large Gas Water Heaters; Res Ductless HVAC Systems; Res Multifamily Central Gas Water Heaters; Res Pool Heaters; Res Heat Pump Clothes Dryer
- Other new technology groups: Res Ductless Heat Pumps
- Other new measures: SEER 15/16/17 efficiency levels for air conditioning and heat pump technology groups

### Adjusted Measures

- HVAC End Use: adjusted technology groups to better align with eTRM measure packages, especially for cooling measures
  - E.g., replaced *Com Packaged RTU AC* and *Com Split System AC* with *Unitary AC (Large)* [SWHC013] and *Unitary AC (Small)* [SWHC014]
- Com LED Fixtures and Retrofit Kits: added retrofit (RET) replacement type option and Average Existing baseline

### Removed Measures

- Removed “smart” measures with DR co-benefits in the 2021 PG Study, which otherwise did not differ from existing efficient measure levels, as DR co-benefits are no longer being calculated for this study

# Proposed ResCom Measure List

## Questions for Stakeholders

**Informal comments on the proposed measure list are due (via e-mail) by August 26, 2022 to:** [travis.holtby@cpuc.ca.gov](mailto:travis.holtby@cpuc.ca.gov) and [npodkowsky@guidehouse.com](mailto:npodkowsky@guidehouse.com)

*Stakeholders may comment directly in the designated stakeholder comment column in Excel and e-mail the file as a response. Stakeholders may also provide comments in written format outside of Excel, though we ask that you cite specific measure names where possible.*

**When reviewing the proposed measure list, please consider:**

- Are there additional measures or technologies that should be included? Or existing measures that should be excluded?
- If so, which are the highest priority to incorporate into the 2023 Study?
- Do you have program and measure (including fuel substitution) data to share that's not available via eTRM/DEER/Workpapers or CEDARS?

# Contacts

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