

State of California

Memorandum



Date: October 16, 2020

To: Gary Barsley, Southern California Edison (SCE); Henry Liu, Pacific Gas and Electric (PG&E); Chan Paek, Southern California Gas (SCG); Ed Reynoso, San Diego Gas and Electric (SDG&E); John Zwick (SDG&E); Nancy Goddard, PacifiCorp

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From: Peter Biermayer - Utilities Engineer, Energy Efficiency Planning and Forecasting Section, Energy Efficiency Branch, Energy Division, CPUC

Subject: Energy Efficiency Disposition Approving Smart Power Strips: **SWAP010-01**

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## 1. Discussion and Direction

The California Public Utilities Commission (CPUC) approves the statewide workpaper on Smart Power Strips: SWAP010-01. This workpaper is a Phase 2 workpaper that does not replace any active workpaper and will become effective upon approval.

## 2. Workpaper Summary

A Tier 2 smart connected advanced power strip uses sensors paired with a configurable countdown timer to manage both active and standby power loads for controlled devices in a TV entertainment system or a personal computer system. This wireless communicating power strip device operates by sensing the power of all devices connected to the controlled sockets and shutting down power to the devices based on an occupancy sensor or timer. The smart power strips workpaper covering Tier 2 smart connected advanced power strip technology supports the upstream, downstream, and direct installation of smart power strips as an add-on equipment measure in the residential sector. This workpaper updates the measure savings since the previous workpaper<sup>1</sup> that expired June 30, 2018 and directs program implementers to collect data to facilitate further measure savings analysis.

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<sup>1</sup> "Work Paper SCE17CS014 Revision 1 Tier 2 Advanced Smart Connected Power Strips", Southern California Edison, May 3, 2018.

### 3. Critical Review Issues

The 2020 workpaper, SWAP010-01 revises previous expired workpaper SCE17CS014 Revision 1 with updated unit energy savings, removes language allowing for control outlet devices and provides data collection direction, including a data collection plan template, to comply with the June 2018 Disposition.

The annual unit energy savings were revised from 240 kWh in the previous workpaper to 180 kWh by applying a 49.6% savings factor<sup>2</sup> and an 84% persistence factor<sup>3</sup> to the baseline energy consumption of 432 kWh<sup>4</sup> from equipment controlled by the power strip. These values shall all be examined through the data collection and analysis effort to inform the next workpaper revision.

### 4. CPUC Direction

This disposition sets an expiration date of 12/31/2022 for workpaper SWAP010-01 and directs PAs to collect measure savings data to bolster or further refine the measure savings estimates in this workpaper, consistent with direction in the June 2018 Disposition<sup>5</sup> on this topic.

A new Smart Power Strips workpaper should be submitted by June 1, 2022 for program year 2023 with revised measure savings values or with justification of current measure savings values based on relevant research and analysis. The data collection and analysis must be approved by the CPUC prior to the data collection that will inform an updated workpaper to be submitted in 2022.

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<sup>2</sup> Supported by SCE's 2016 data collection effort and modelling efforts by SDG&E in 2015 and PG&E in 2016.

<sup>3</sup> Advanced Power Strip Metering Study, NMR Group Inc, August 2, 2018

<sup>4</sup> Energy Savings of TIER 2 Advance Power Strips in residential AV Systems, ET13PGE1441, February 2016.

<sup>5</sup> "Detailed Review: SCE17CS014 Revision 1 Tier 2 Advanced Smart Connected Power Strips" California Public Utilities Commission, Energy Division, June 1, 2018.