

## Ayad Al-Shaikh

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**From:** Ayad Al-Shaikh  
**Sent:** Thursday, October 19, 2023 5:33 PM  
**To:** Andres Fergadiotti; 'Andrew Parker (andrew.parker@nrel.gov)'; antonio.aliberti@cascadeenergy.com; 'apande@trccompanies.com'; arash.kialashaki@pge.com; brogers@aesc-inc.com; 'Charles Ehrlich'; Christopher Rogers; Danryd, Anders R; david.chan@veolia.com; denis@synergy-nrg.com; 'EReynoso@semprautilities.com'; 'Eric Noller'; 'gbarker@energy-solution.com'; 'george@aimgreen.com'; 'gfernstrom@msn.com'; Gutierrez, Alfredo; Jay Bhakta (Jay.Bhakta@sce.com); King Lee; Kristin Heinemeier; Icasco@trccompanies.com; lgartland@gti.energy; Long, Steven; Mendon, Vrushali V; Michael Green; Mike Casey (mecasey@roadrunner.com); 'Mudit Saxena'; 'mvu@rmsenergyconsulting.com'; myrna.dayan@cascadeenergy.com; 'Richard Ma'; rkbaker22@gmail.com; Rosillo Sr., Adan; Sepideh Shahinfard; Spencer Lipp; 'Spencer Lipp'; Tim Olsen; 'tom@UCONS.com'; Yazdanpanah, Babak; Yeshpal Gupta  
**Cc:** Saiyan, Armen; Lim, Sean; Chau Nguyen; Randy Kwok; Arlis Reynolds; Annette Beitel; Emily Lemei; Steven Starks; Frank Harris (fharris@cmua.org)  
**Subject:** New Measure: SWHC020-01 Portable AC/HP - Affirmation Complete!

### Cal TF Members,

As a follow-up to the presentation of the Portable AC/HP measure package at the 9/21/23 Cal TF meeting, all issues raised by members have been addressed and confirmed by the Measure Screening Committee today for this measure package:

[Portable Air Conditioner and Heat Pump, Residential | ETRM \(caetrm.com\)](#)

I am happy to say that this is our **first published** POU-only measure package! It includes strong equity, health, and safety components that can be reviewed in the Non-Energy Benefits section of the measure package.

Thanks the hard work by LADWP and TRC to create this offering!

Final comments will be memorized on the Cal TF website under the 9/21/2023 meeting materials for anyone who wants to review them. As always, please let me know if you have any questions about the measure or the process.

Regards,  
Ayad.

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**From:** Ayad Al-Shaikh  
**Sent:** Monday, September 25, 2023 10:44 AM  
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**Subject:** Follow-up: Portable AC/HP - Affirmation Comments due COB 9/29 (Fri)


## Cal TF Members,

At the last Measure Screening Committee meeting, we discussed the second LADWP developed measure package for affirmation:

[SWAP020-01: Portable Air Conditioner and Heat Pump, Residential](#)

At the meeting, (**Thanks to LADWP and TRC!**), we walked through the measure package and [presented](#):

- Measure and offering descriptions
- Savings and cost methodologies
- Eligibility requirements
- Non Energy Impacts (Refrieraent, GHG, and Comfort)

If you were not able to attend the meeting, but wanted to watch it, it can be  [accessed through this link](#) by the Cal TF members. (If you wanted to share the link with others, you may need to reach out to me to provide them access also.)

The items raised so far include: ([numbers refer to timestamps in the recorded meeting video](#))

- Added Load (22:10) – Acknowledgement that in most cases, this measure will not be a replacement, but an additional load added to the grid. Is this still considered energy efficiency?
  - o (47:12) All New Construction (NC) measures increase load. Providing incentive to drive choices from bottom Tier to top Tier efficiency.
  - o LA is providing an ordinance where landlords must provide cooling. It will happen but it should provide it efficiently.
- Modeling (24:45) – Describe the role of the PTAC for modeling?
  - o PTAC prototype exists as part of the standard models and was used as the basis with updates for sizing. The PTAC prototypes were used for the base case measure since these are zone level equipment, but the system efficiencies (COP) were updated based on our market research to simulate PAC and PHPs.
- Modeling (40:10) – How was the baseline chosen?
  - o We used PAC/PHP T20 database efficiencies for the NR and NC baseline. For deciding between NR/NC, LADWP could consider collecting what system type existing in the home (portable AC, portable HP, room AC, nothing, etc) in their online portal.
- Cost (40:40) – Should there be additional cost to connect exhaust and intake air?
  - o These units do have an exhaust (through window) that has a function of exhausting condenser side air. The unit itself does not provide ventilation, but circulates and cools internal air.
- QPL (50:30) – Who will maintain the QPL?
  - o LADWP will maintain the QPL since this is not an EnergyStar/CEE product. The measure package has a way to establish the list; potentially it can be included through the Measure Property Data link in the future.
- Evaluation Risk (37:33) – 2022 survey to understand in-service rate and looks positive. Small response now, but plan to expand for 2023 and beyond.

Next Steps:

- The video of the meeting is available for Cal TF Members to watch (or rewatch).
- Please send additional comments to me by COB Fri, 9/29.
- Cal TF Staff with LADWP will assess the Affirmation status during the first week of October to make a recommendation to move forward.

Please contact me if you have any trouble accessing the video (and you want to).

Regards,  
Ayad.

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