



Notes

**California Technical Forum (Cal TF)
Meeting #26: Technical Forum (TF)
December 1st, 2016**

9:30 am – 3:30 pm

Pacific Energy Center
San Francisco

Time	Agenda Item	Discussion Leader(s)
Closed Door Cal TF (Separate Go-To-Meeting Number for TF Members) [Go-To-Webinar Info. To Cal TF Members only]		
9:30 am – 9:45 am	Opening	Annette Beitel, Cal TF Facilitator
9:45 – 11:15	End-of-Year Matters <ul style="list-style-type: none"> Report-Out: Cal TF Staff Review of New Measure Review Process: Lessons Learned and Recommendations for Future New Measure Review Process ACT: Cal TF Feedback on lessons learned and Recommendations	Tim Melloch, Cal TF Staff
11:00 – 11:15	Break	
11:15 – 12:15	<ul style="list-style-type: none"> 2017 Business Plan Review ACT: Cal TF affirmation of 2017 Cal TF Business Plan	Annette Beitel, Cal TF Staff
12:15 – 1:00	Lunch	
Open Door Cal TF Meeting Please register for Cal TF December 1 Meeting - Open Door on Dec 1, 2016 1:00 PM PST at: https://attendee.gotowebinar.com/register/995843453276046083 +1 (562) 247-8321 Access Code: 996-907-411 After registering, you will receive a confirmation email containing information about joining the webinar.		
1:00 – 2:00	Retail Product Platform: New Products for 2017 – 3 Measures <ul style="list-style-type: none"> Efficient Clothes Washers – Top 	Jia Huang, PG&E



	<ul style="list-style-type: none"> • Efficient Clothes Washers – Side • Efficient Refrigerators ACT: Cal TF Feedback sought.	
2:00 – 2:50	2016 Technical Position Papers <ul style="list-style-type: none"> • TPP #6: Measure Consolidation process for eTRM • TPP #7: Cal TF WP QA/QC • Plan: Test, learn, modify if needed. ACT: Cal TF approval for 2017	Tim Melloch, Cal TF Staff
2:50 – 3:00	Close	Annette Beitel

Meeting Materials

- Presentations
 - New Measure Review Process: Lessons Learned and Recommendations
 - NOTE: Will be presented to TF, not posted until after PAC meeting
 - Retail Product Platform: New Products for 2017
 - POE and Deemed Measures (focus on Early Retirement)
 - Document produced by Jon Maxwell, ERS
- Documents
 - 2017 Business Plan (previously circulated, but somewhat modified)
 - Cal TF TPP #6: Overlapping Measure Consolidation Process (prior to Placement in eTRM (previously circulated)
 - Cal TF TPP #7: Current Expected Roles/Responsibilities for High Quality, Technically Rigorous Workpaper Development; Recommended Enhancements (previously circulated)



I. Attendees

In Person Attendees

Stephen Long, TF Member
Martin Vu, TF Member
Bing Tso, TF Member
Andy Brooks
Ron Ishii, TF Member
George Beeler, TF Member
Spencer Lipp, TF Member
Alina Zohrabian, TF Member
Gary Fernstrom, TF Member
Chris Rogers, TF Member
Mary Matteson Bryan, TF Member
Larry Kotewa, TF Member
Ed Reynoso, SDG&E
Pierre Landry, TF Member
David Springer, TF Member
Bryan Warren, TF Member
David Pruitt, TF Member
Yeshpal Gupta, TF Member

Phone Attendees

Tim Melloch, Cal TF Staff
Armen Saiyan, TF Member
Mike Casey, TF Member

Others

Paul Pruschki, SDG&E
Paden Cast, SCG
Gay Powell, PG&E
Owen Howlett, SMUD
Jia Huang, PG&E, Presenter



II. Key Decisions and Action Items

Retail Pricing Program

ACT: Bring in someone to report out on results of Year 1 of RPP.

Retail Product Platform – Efficient Clothes Washers

ACT: Consider for Technical Position Paper: Harmonizing CEC and CPUC inputs for C/E assumptions.

ACT: Add interesting program idea – site versus source is issue is in government buildings.

ACT: Issues –

1. NTG
2. Site vs. Source
3. Multifamily application for common areas should be specifically excluded, or need to factor common area usage as blended average
4. For front loaders, federal code is too low. Should use Energy Star based on data.

Retail Product Platform – Refrigerators

ACT: Conversation tabled.

III. Presentations

Retail Pricing Program

ACT: Bring in someone to report out on results of Year 1 of RPP.

Retail Product Platform: New Products for 2017 – 3 Measures

Jia Huang, PG&E –

Efficient Clothes Washers

Owen Howlett: What is it?



Energy Star most efficient.

Owen Howlett: Why is IMC not the same as the delta between the less efficient and more efficient?

Jia Huang: IMC strips out difference in costs that are not associated with efficiency characteristics.

Gary Fernstrom: NTG values incredibly low. PG&E's options to go incredibly conservative.

Annette Beitel: Ex post studies in WP; results from bass diffusion model low. Higher

Stephen Long: Did staff accept the bass diffusion model approach for energy savings?

Jia Huang: Disposition included approved values consistent with bass diffusion results for first few years.

Martin Vu: Will you be updating with embedded water savings?

Owen Howlett: Energy savings between clothes washer energy use and clothes dryer is overlapping and double counting. If you add clothes washer energy to dryer energy, you may get double counting of energy use.

Owen Howlett: Need to look at test procedures to make sure you are not double counting energy use (clothes washer) and clothes dryer. Approach of considering test procedure described.

Jia Huang: Describe energy calculation on how usage not double counted.

Owen Howlett: Satisfied.

Gary Fernstrom: I challenge CW Calculation Methodology. Equation is site-specific. Reality is that in the power plant you have to burn more gas to burn the electricity. Use source savings not site savings. (*Consider as TPP*). Use source fuel approach using a site specific approach.

TPP: Harmonizing CEC and CPUC inputs for C/E assumptions.



David Springer: Another place where site versus source is issue is in government buildings.

[ADD Interesting program idea.]

Stephen Long: If you break it down this way does there need to be a weighting for multi-family where usage is higher? Overall results would be higher.

Jia Huang: For multi-family, common area usage is higher. This measure only addresses in-unit measures, not common area measures, so we are not doing blended approach.

Owen Howlett: Were you assuming baseline washer minimally code compliant?

Jia Huang: Yes.

Owen Howlett: This is really, really wrong.

Jia Huang: I don't agree. From web harvesting data to estimate IMC, at least for front loader or top loader is about the same as federal code minimum.

Owen Howlett: I saw data that shows that baseline is much higher than minimally code compliant.

Gary Fernstrom: I can imagine energy division.

Owen Howlett: Will provide data from the DOE database to show that minimally compliant.

Front loaders: Energy Star. Required IMEF is higher than federal code minimum. If you are using federal code minimum, this is too low given that average on market is energy star for front loaders.

We know that most washers are front loaders.

Jia Huang: We are using what is in DEER.

Issues:

5. NTG
6. Site vs. Source



7. Multifamily application for common areas should be specifically excluded, or need to factor common area usage as blended average
8. For front loaders, federal code is too low. Should use Energy Star based on data.

Refrigerator

Gary Fernstrom: Interactive effect is incorrectly calculated. It is overstated. Refrigerator radiates heat but also absorbs heat. I suspect it is not properly modeled. Heat coming out is much, much higher than cooling effect. It is incorrectly done.

Yeshpal Gupta, Owen Howlett disagree with Gary Fernstrom – refrigerator is not absorbing significant amounts of heat.

Steven Long: Worth reopening interactive effects.

Jia Huang: Noted.

Jia Huang: Why is the interactive effect different for refrigerator compared to light bulb?

Gary Fernstrom: Light bulb not absorbing heat. Refrigerator is absorbing heat.

Owen Howlett: The refrigerator is not absorbing heat.

Gary Fernstrom: Yes it is, because refrigerators are cold to the surface.

ACT: Conversation tabled.