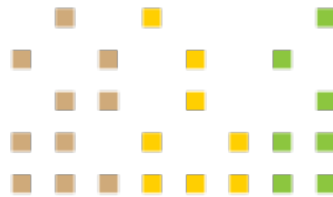


Home Energy Audits Cal TF Tier 2 Presentation



CALIFORNIA

TECHNICAL FORUM

**ROGER BAKER
AYAD AL-SHAikh
OCTOBER 2017**

Miscellaneous Category Measure Affirmation

2

“Cal TF affirms the subcommittee recommendations regarding ‘Stage 1 Issues’ for Miscellaneous Measures.”

- 11.02, Home Energy Checkup

eTRM Subcommittee Schedule

3

	29-May	5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Sep	11-Sep	18-Sep	25-Sep	2-Oct	9-Oct	16-Oct	23-Oct	30-Oct	6-Nov	13-Nov	20-Nov	27-Nov	4-Dec	11-Dec	18-Dec	25-Dec	1-Jan	8-Jan	15-Jan	22-Jan	2017	2018	
Cal TF Meeting				6/22					7/27									9/28				10/26				11/16				12/14						1/25		
Governance / TPP																						1				2a				2								
Commercial Refrigeration																		1							2a				2							20	0	
Food Service																		1				2a			2											15	0	
Agriculture / Pumps											TO TC											1			2a				2							5	1	
Lighting																TO	TC																		1	11	42	
HVAC																																				1	2	50
Water Heating														TO TC											1										2	22	0	
Appliance / Plug Load														TO TC											1										2	10	12	
Building Envelope																																					0	4
Tools																						1							2							1	5	
Process																																				0	7	
Miscellaneous																						1													2	2	4	
Low Income Measures																																						

Green numbers = Number of Measures; Blue numbers: 1=First Review / 2 = Affirmation.

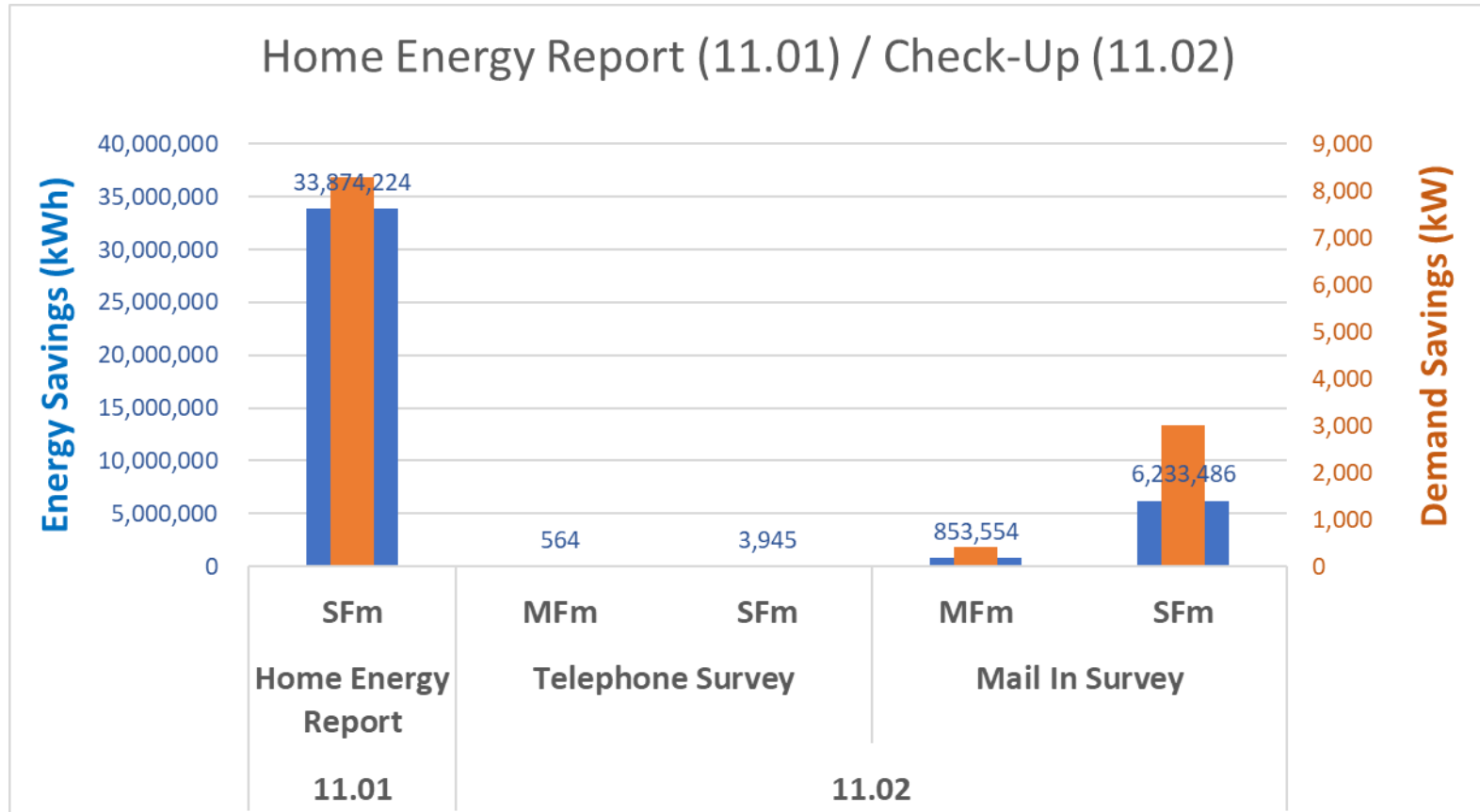
Miscellaneous Category Measures

4

No.	Measure Names	PG&E	SCE	SDG&E	SCG	POU
11.01	Home Energy Reports					
11.02	Home Energy Check Up					
11.03	Whole House Upgrade Program					
11.04	3P Synergy Water Measures Mobile Home					
11.05	Water Energy Nexus					
11.06	DEER Measures					
11.07	Energy Star Manufactured Housing					
11.08	Low Income M&V Study					

Home Energy Savings Perspective

5



Measure Consensus

11.02 – Home Energy Checkup

6

- Offering
 - Provides tailored energy usage analysis based on customer inputs
 - Offered historically via on-line, mail, phone or site visit
 - Moved toward on-line only, using Universal Audit Tool (UAT)
- Measure Extension
 - Added Measure for POUs
- Stage 2 Issues
 - *Address potential overlap with Home Energy Reports*
 - ✦ *Evaluation suggests some diminishment*
 - *Updating savings based on Universal Audit Tool (UAT) evaluation methods and results*
 - ✦ *UAT evaluation did not include SCE*
 - ✦ *UAT does not provide savings for mail-in or telephone delivery methods*
 - ✦ *SCG is updating existing work paper to incorporate UAT findings*

Percent Change Within the Measure

	PGE	SCE	SDGE	SCG	Total
kW		0%			0%
kWh		0%			0%
Therms					
Cost		111%			111%

Absolute Change & Comparison

	Total	% of Measure	% of Category	PGE	SCE	SDGE	SCG
kW	0.00	0%	0%	-	0.00	-	-
kWh	(0)	0%	0%	-	(0)	-	-
Therms	-		0%	-	-	-	-
Cost	\$ 43,231	111%	0%	\$ -	\$ 43,231	\$ -	\$ -

Input Consensus

11.02 – Home Energy Check-Up

7

- Measure Permutations

	eTRM Measure Value	PG&E	SCE	SDG&E	SCG
BldgType	Any	Any	Dmo, MFm, SFm	No Value	No Value
BldgVintage	Ex	Any	Ex	No Value	No Value
BldgLoc	Any	Any	CZ06,CZ08,CZ09,CZ10,CZ13,CZ14,CZ15,CZ16	No Value	No Value
BldgHVAC	rWtd	No Value	rWtd	No Value	No Value

- Measure Implementation

	eTRM Measure Value	PG&E	SCE	SDG&E	SCG
MeasureAppType	ROB	ROB	REA	No Value	No Value
NormUnit	Household	Each	Household	No Value	No Value
EUL ID	Service-ResEnergyAu	No Value	Service-ResEnergyAu	No Value	No Value
NTGR	Res-Default>2	Res-Default>2	Res-Default>2	No Value	No Value
DeliveryType	PreRebDown	No Value	PreRebDown	No Value	No Value
GSIA	No Value	No Value	No Value	No Value	No Value

Miscellaneous Category Measure Affirmation

8

“Cal TF affirms the subcommittee recommendations regarding ‘Stage 1 Issues’ for Miscellaneous Measures.”

- 11.02, Home Energy Checkup

Next Steps

9

- Any questions, feedback, or issues, please reach out!
 - Roger Baker (Roger.Baker@futee.biz)
 - Ayad Al-Shaikh (Ayad.AlShaikh@futee.biz)

Thank You!

Appendix

10

Measure Consensus

11.01 – Home Energy Reports

11

- Offering
 - Provide periodic energy reports to customers on opt-out basis
 - ✦ Report includes comparison of energy use with peer group of similar customers
 - ✦ Also includes customized tips for energy savings
- Stage 1 Issues
 - Savings are claimed on ex post basis
 - Comparing with similar programs elsewhere
 - ✦ TRM methodology – looking at other states' TRMs
 - ✦ *EUL – 1 yr in CA*
 - ✦ Cost – IOU / POU's determining cost
 - Exploring overlap issues with Home Energy Checkup
 - ✦ *UAT evaluation suggests no double-counting*
 - ✦ *HER participation may reduce available savings for UAT users*
- Measure Extension
 - POU TRM has provisional measure, 1.48% deemed electric savings, 0.6% deemed gas savings (subject to ex post results of randomized control trial), 1 year EUL
- Stage 2 Issues
 - Review EUL/Cost methodology and measure life/decay rate approaches used elsewhere in country for applicability and transferability
 - Considerable research as been done around the country that should be reviewed and reflected

