

Progress on 2015 Business Plan



CALIFORNIA
TECHNICAL FORUM

CAL TF STAFF
APRIL 9TH, 2015

Agenda

2

- Update on measure review
- Update on Statewide Coordination
- Update on crosscutting technical subcommittees:
 - ❑ Measure Complexity / Best Available Information
(Guidelines for Ex Ante Value Development)
 - ❑ Savings Below Code

Measure Review

3

- 2015 Goal: Review at least 15 workpapers for new or outdated measures
 - ❑ Over 50% towards meeting this goal
- Approved so far
 - ❑ Tier 2 Advanced Power Strips (SDG&E) – Interim WP
 - ❑ LED Recessed or Surface-Mounted Panels (PG&E)
 - ❑ LED Retrofit Kits (SCE)

Measure Review

4

- Upcoming approvals
 - ❑ Clothes Washer Recycling (NRDC) (April)
 - ❑ Retail Plug Load Portfolio (PG&E) (May)
 - ❑ Set Top Boxes (SCE) (April)
 - ❑ Commercial LED Linear Fluorescent Lamp Replacements (Statewide) (June)
- Other measures in pipeline
 - ❑ Residential Ductless Heat Pumps (UCONS) (Abstract Presented)
 - ❑ Residential HVAC Quality Installation (SCE) (Subcommittee)
 - ❑ Smart Thermostats (PG&E) (May Abstract)

Statewide WP Coordination



5

- Pre-2015
 - ❑ No systematic coordination of WPs.
 - ✦ WPs submitted by different utilities for same measure with different parameters.
 - ❑ No Statewide WP template
 - ❑ No “master” list of WPs submitted to CPUC
 - ❑ No “master” list of WPs under development/in consideration
 - ❑ Outdated WPs (2012) posted on CPUC website
 - ❑ No easy way for 3-Ps to propose/develop measures
 - ❑ Disconnect between POU WPs (TRM values) and IOU WPs
 - ✦ In early days, POUs and IOUs jointly worked on developing measure values
 - ❑ Measure parameters contained in DEER and “non-DEER WPs”
 - ✦ Such a dichotomy does not exist in any other jurisdiction. Rationale provided does not make sense.

Statewide Coordination - 2015



6

- CPUC Staff Directive: IOUs must coordinate on WP development and submit only one WP per measure.
- Statewide list of IOU workpapers posted to Cal TF website in early April
 - Existing workpapers
 - ✦ Plan to add all existing WPs to Cal TF d-base with search function.
 - Proposed new and updated WPs
 - Retired measures
 - Measure “Ideas”
- 3-Ps now can and are proposing new measures
- Monthly meeting with IOUs and POUs on new/updated WPs
 - Opportunities for coordination, awareness-building

Crosscutting Technical Subcommittees



7

- Already launched:
 - Measure Complexity / Best Available Information
 - ✦ Guidelines for Ex Ante Value Development
 - ✦ Informed by EM&V practice; research analyzing TRMs; other state TRMs
 - POU TRM Review/DEER Documentation
 - ✦ Foundation for Recommendation on Future of DEER
 - Savings Below Code
- Expected soon:
 - Residential Quality Installation - HVAC
 - ✦ National interest (ACCA, ASHRAE); perhaps Energy Star
 - ✦ Will consider W.O. 32 results
 - ✦ Very broad topic; will work with IOU tech leads to establish appropriate scope and sequence.
 - Ex Ante Alternatives

Crosscutting Technical Subcommittees: Measure Complexity/Best Available Information



8

- Work Product: Ex Ante Development Guidelines (June TF Review)
- Guidelines will cover:
 - ❑ How many “measure combinations” appropriate given how measure deployed.
 - ❑ When should “interactive effects” and other adders be applied?
 - ✦ What if resulting value changes by less than 10%
 - ❑ What method to use – engineering equations, calibrated models, building simulations
 - ❑ When measures should be adopted “provisionally” and “sunset”
 - ❑ Level of statistical rigor
 - ❑ Criteria for evaluating applicability and validity of information
 - ✦ What if not California data?
 - ❑ Criteria for determining how much effort/cost to put into developing measures/measure parameters
 - ✦ Measure: Impact on portfolio
 - ✦ Measure Parameter: Impact on Savings/TRC Cal.
- Guidelines will seek to avoid both
 - ❑ “False precision” – More measure combinations/measure granularity does not necessarily translate into more accurate measure parameters.
 - ❑ “Bias” – Values that are consistently too high nor too low.
 - ❑ Cost that is not commensurate with value in developing ex ante estimates.

Crosscutting Technical Subcommittees: Savings Below Code



9

- Objective:
 - Characterize circumstances where savings below code are not currently being captured
 - Quantify cost-effective savings from below code activities that can be achieved under current regulatory directives (D.14-10-046)
- Final technical position paper as well as interim working papers as needs arise
 - e.g. Compilation of research from other jurisdictions, list of “repair indefinitely” measures, data gathering strategies for code non-compliance
- Currently well positioned to help leverage and coordinate ongoing work statewide

Conclusion

10

- On track to meet all business plan goals
 - Core work: Measure review, keeping the TF fully ‘staffed’
 - ✦ Growing track record of success, respect for technical opinion
 - Additional 2015 tasks: Supporting measure review with crosscutting subcommittees, DEER/POU TRM documentation, Statewide Coordination