Cal TF – PAC Meeting



JUNE 21,2022 ANNETTE BEITEL AYAD AL-SHAIKH ARLIS REYNOLDS

Agenda





- Leveraging the eTRM for Custom Projects
 - Continued discussion on how existing eTRM tools/processes can be used to standardize and streamline custom projects

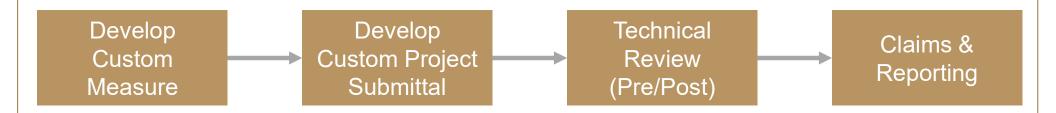


PAC and stakeholder input

eTRM Benefits for Custom



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Cost Savings

Time Savings

Customer Experience

Standardization

Transparency

Stakeholder Engagement

Stage: Custom Measure





Different methods and tools for similar measures

Nonstandard documentation difficult to navigate and review

Develop
Custom
Measure

Develop
Custom Project
Submittal

Custom Project
Custom P

Library of approved tools for semi-deemed measures

Standard savings template for custom measures

eTRM Measure Package









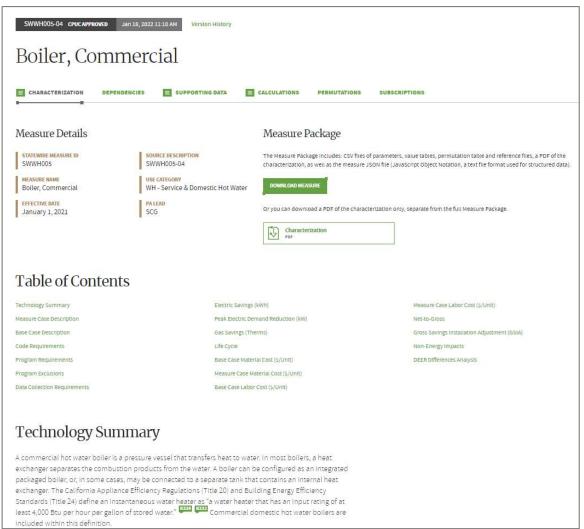


Improving Project Submittal Quality

Develop Custom Measures







eTRM template
can readily
accommodate
semi-deemed
measure
characterization









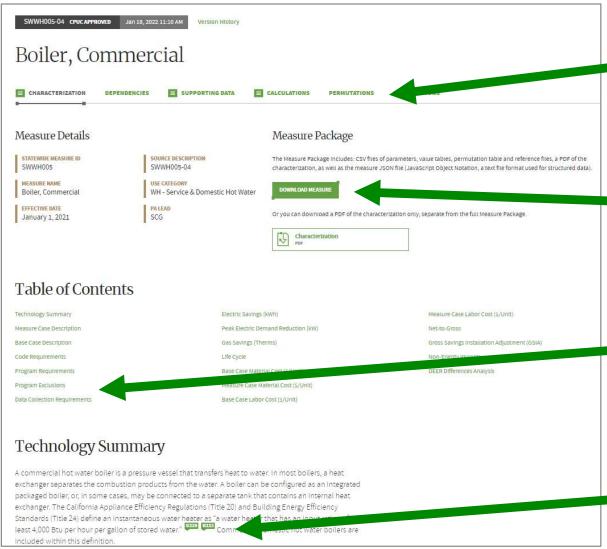


Improving Project Submittal Quality

Develop Custom Measures







Future potential to perform calculations directly in eTRM

Direct download of appropriate version of approved calculator (populated with default values)

Characterization includes defined data and M&V requirements.

Embedded references to key documents

Stages: Project Package





Incomplete project package

Nonstandard formatting

Large number of supporting documents

Develop Custom Measure Develop
Custom Project
Submittal

Technical Review (Pre/Post)

Claims & Reporting

Complete, consistent, organized project packages

Reduced documentation requirements for semi-deemed

eTRM Measure Package Template





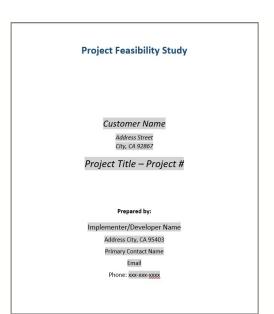


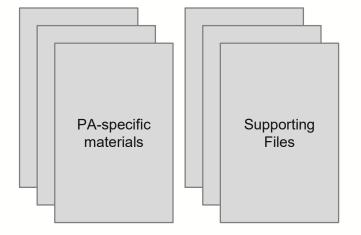




Custom Project Packages









Data validation for completeness and QA/QC













Custom Project Packages





Base Case Material Cost (\$/Unit)

The material cost data for baseline and measure case air -cooled chillers was gathered from two equipment manufacturers who also participate in Upstream HVAC program. This data was collected in October - November 2020 and includes the average equipment cost per ton for the two capacity ranges and three efficiency tiers (baseline, Tier 1 and Tier 2). The average of the two manufactures cost was used as the average equipment cost. See the cost calculation for details.

References

- Itron, Inc. 2011. DEER Database 2011 Update Documentation. Prepared for the California Public Utilities Commission.
 - Download (PDF, 2.6 MB)
- California Public Utilities Commission (CPUC), Energy Division. 2003.

 Energy Efficiency Policy Manual v 2.0. Download (PDF, 159.0 KB)
- California Public Utilities Commission (CPUC), Energy Division. 2013.

 Energy Efficiency Policy Manual Version 5. Download (PDF, 1.3 MB)
- Southern California Edison (SCE). 2020. "SWHC020-02 Air-Cooled Chiller-Cost Calculations.xlsx."
 Download (XLSX, 21.4 KB)

Reference tags in project materials connect to source documentation









Stage: Technical Review





Different process for each PA

Back-and-forth communication

Manual tracking

Limited transparency

Develop
Custom
Custom Project
Measure

Develop
Custom Project
Submittal

Technical Review (Pre/Post)

Claims & Reporting

Clear, consistent, structured reviews

Transparent status and history

Automated tracking and reporting

Measure Package Review









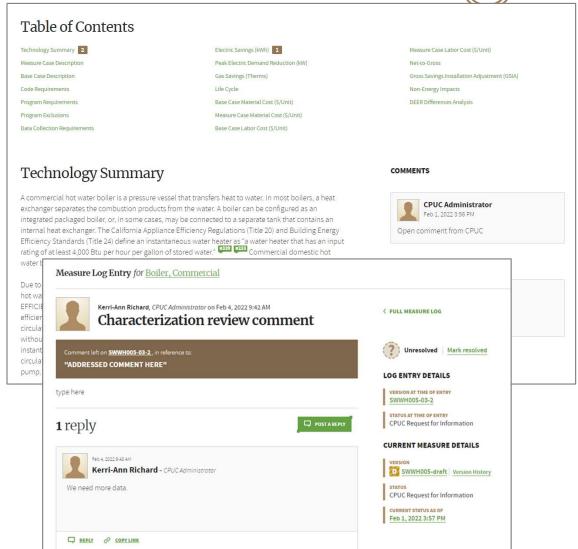




Review Comments







Reviewer comments and responses are systematically tracked





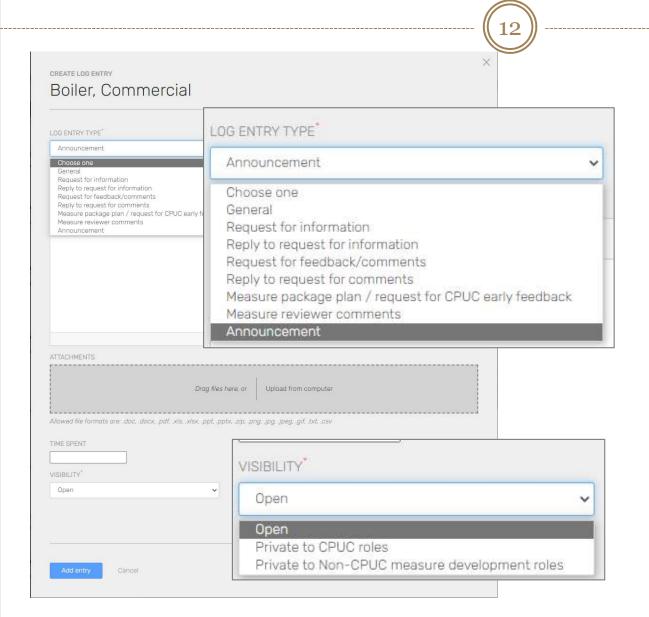






Communication Log





eTRM tracks and stores stakeholder communication throughout review





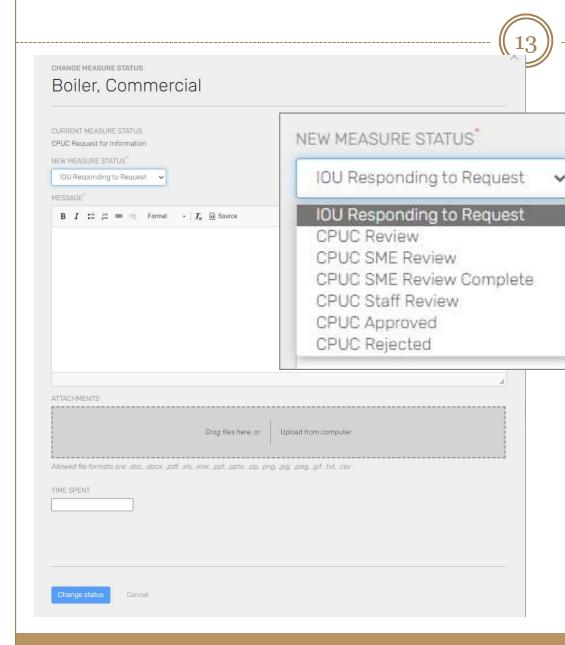






Review Status





eTRM tracks status, comments, and additional documentation throughout review







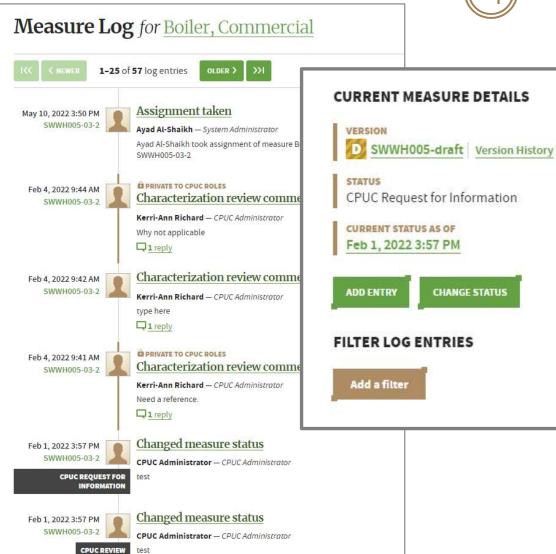




Status and Review History







eTRM shows current status review history

Timestamps can be used to track and enforce review periods













Notifications







Dan Pidgeon, CPUC Administrator — Jun 17, 2022 6:47 AM Low-Temperature Display Case Doors With No Anti-Sweat Heaters (SWCR002-02-5)

Changed measure status

Changed measure status

CPUC STAFF REVIEW → CPUC REQUEST FOR INFORMATION

CPUC Request for Information. Please find comments to address in the measure log. Don't hesitate to reach out if you have any questions.

Measure status at time of entry:

CPUC Request for Information

You are receiving this email because your role in eTRM is System Administrator or CPUC Administrator. You may not unsubscribe from this notification.

Email notifications keep users informed









User Dashboards





CPUC Administrator Dashboard

Status Reports

Measure Log Activity Report

Measure Package Review Summary

CPUC Review Assignment Report

Measure Package Plan Submittals

CPUC Review Status Report

Measures Under Review

Number of days since measure version was last submitted or resubmitted to the CPUC for review.

LESS THAN 7 DAYS

SWLG009-02-11

LED, Tube

SWLG018-01-12

LED, Tube, Type B and Type C

SWFS006-01-7

Ice Machine, Commercial

SWHC052-00-8 Air-Cooled Chiller, Path B SWHC001-02-5

7 TO 15 DAYS

Wall Furnace, Residential

SWFS021-02-5

Fryer, Commercial, Fuel Subst...

SWFS022-01-5

Convection Oven, Commercial, ...

Auto Closer for Refrigerated ...

Additional measures under review can be viewed in the CPUC Review Status Report

ECM Retrofit for a Walk-in Co... (21 total measures in this bucket)

SWCR004-01-7

15 TO 30 DAYS

SWAP008-01-4

Room Air Cleaner, Residential

SWCR018-02-3

Reach-In Refrigerator or Free...

SWAP006-01-6

Dishwasher, Residential

SWSV005-01-4

Economizer Repair, Commercial

SWSV010-01-2

Economizer Controls, Commerci. (26 total measures in this bucket)

30 TO 60 DAYS

SWRE003-00-14

Heater for Pool or Spa, Comme...

SWAP015-draft

Induction Cooking with or wit...

SWAP003-03-2

Clothes Dryer, Residential

SWCR020-draft

Medium-Temperature Open Displ...

SWHC048-02-3

Packaged Air Conditioner Heat... (16 total measures in this bucket) **60 DAYS OR MORE**

SWWH004-02-3

Laminar Flow Restrictor, Comm.

SWWH019-03-3

Faucet Aerator, Commercial

SWFS002-draft

Door-Type Dishwasher, Commerc...

SWFS013-01-4

Low-Flow Pre-Rinse Spray Valve

SWWH020-03-4

Low-Flow Showerhead, Commerci, (13 total measures in this bucket)

User dashboard shows review activity





Stages: Claims and Reporting





Different names/codes for similar measures

Project data in different systems

Project data not readily available for ex post analysis

Develop Custom Measure Develop
Custom Project
Submittal

Technical Review (Pre/Post)

Claims & Reporting

Data housed and organized in central location

Accessible and tagged data for reporting and analytics

eTRM database and reporting tools









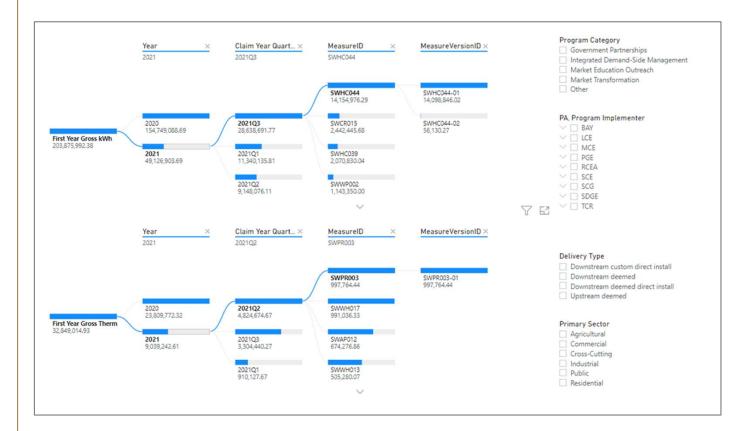




Reporting & Analytics



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Aggregated data and common nomenclature improves reporting and analytics









Integrations





Generate key

Generate a unique API key to enable consumption of eTRM data in external applications.

CET Integration

eTRM allows users to download measure files for analysis in the CEDARS Cost Effectiveness Tool (CET). The CET output may be uploaded into the measure permutations.

DOWNLOAD CET INPUT FILE (ZIP)

Automate data transfers and data structures enable integration with other data systems









User-Friendly Interface





- User dashboards
- Enhanced search functions
- Customizable reports and subscriptions
- Alignment with deemed

eTRM user interface was designed by user-stakeholders





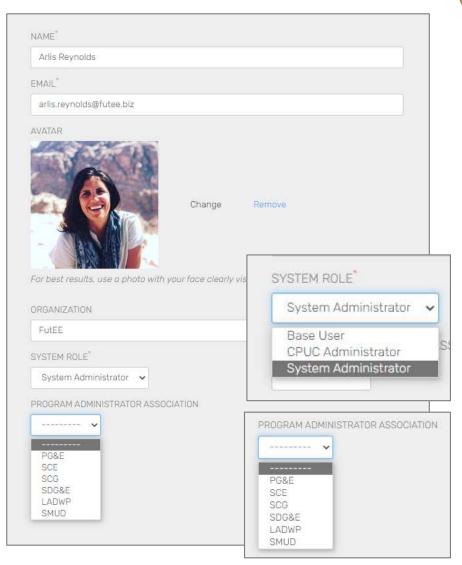




Differential Access







User types, roles, affiliations, and assignments control users access to data and functions





Leveraging eTRM for Custom Projects



Next Steps for Cal TF



- Ongoing Stakeholder Input: Continue to solicit input/comment from key stakeholders to develop/refine
 - White Paper(s)
 - Graphical models
 - Identify value and barriers/challenges to moving forward
- Engineering: Collect custom tools/data requirements (IOU/POU). Review/standardize through Cal TF subcommittees
- eTRM Updates: Refine enhancements to eTRM so custom tools can be uploaded, and later possibly customer projects

Next Steps for PAC





June 8

Introduce concept

June 21

eTRM capabilities and benefits

July TBD

Long term vision and roadmap

PAC and stakeholder input

Please complete doodle poll for July PAC meeting (7/14, 7/15, 7/21, or 7/22)