

# Cal TF Custom Subcommittee Meeting #6



**CALIFORNIA**  
TECHNICAL FORUM

**MARCH 1, 2023**

# Agenda & Goals

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- **Meeting Agenda**

- General updates [10 min]
- eTRM Phase 1 for Custom Measures – Update [20 min]
- Streamlining Efforts [45 min]
  - ✦ ISP White Paper
  - ✦ Providing clear CPUC guidance on custom projects
- Statewide Custom Measure Names [45 min]

- **Meeting Goals**

- Provide updates on various custom activities
- Collect input/participation on ISP White Paper and Regulatory Updates effort
- Collect input on initial proposal for SW Custom Measure ID Structure

# Custom Initiative – Status

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| BP Metric | Activity   | Status  | Upcoming   |
|-----------|--|---|--|
| 5A        | Develop proposal to improve approach to summarizing and providing clear CPUC guidance on custom projects | <b>Cal TF Staff presenting initial concepts today</b>   | Cal TF Staff will bring updates and recommendations to subcommittee for input                |
| 5A        | Identify potential Measures and Tools that could be uploaded and managed in eTRM                         | In progress by Cal TF Staff   | Cal TF Staff will solicit info on claims data and recommended measures/tools                 |
| 5A        | Develop SW Custom Measure ID Structure   | <b>Cal TF Staff presenting initial concepts today</b>   | TBD  |
| 5B        | Custom Roadmap   | Cal TF Staff drafting based on stakeholder input to date  | Draft for Custom Subcommittee review by end of March   |
| 5C        | SW Measure Characterization  | In progress through measure working groups  | Measure groups will bring work product to Subcommittee                                       |
| 5C*       | SW Measure and Tool Development Workflow   | (new)   | -  |
| 5D        | Update eTRM Documentation  | Updating Measure Characterization template for Custom   | TBD based on eTRM priorities   |
| 5E        | Implement custom measures/tools in the eTRM  | Created “Phase 1” functional specifications; implementation timing will depend on overall eTRM Enhancement priorities | Define additional eTRM functions/features to support Custom (future subcommittee discussion) |
| 6B        | White Paper: ISP   | <b>Affirmed by TF (Jan); presenting approach for discussion today</b>   | Data collection / survey to support white paper  |

# eTRM for Custom



**CALIFORNIA**  
TECHNICAL FORUM

**CHAU NGUYEN**  
**ARLIS REYNOLDS**

# eTRM for Custom

Objective: Provide input on Cal TF Staff analysis of how existing eTRM tools can be used to standardize and streamline custom projects

Phase 1: Updated functional specifications

Phase 2: Define business requirements in 2023



- **“Phase 1” Scope**
  - Creates **Custom Measures** in the eTRM to host information on calculation methods and calculation tools for common custom measures
  - Creates **Custom Library** in the eTRM to host calculation tools, templates, and other key statewide resources
  - Does **not** include site-specific data or measure/project tracking
  
- **Activities**
  - Custom Subcommittee input to shape functional specs
  - 1/23 – Presented wireframes to eTRM development team
  - 2/1 – Present wireframes to Subcommittee
  - 2/8 – Follow-up Subcommittee discussion on wireframes
  - 2/28 – Updated functional specifications w/ software team
  - Next – TBD based on eTRM Enhancement Priorities
  
- **Materials on SharePoint**
  - eTRM for Custom ([folder](#))
  - [Custom eTRM Design 1.2 \(Phase 1 Wireframes\)](#)
  - [Custom eTRM Phase 1 Functional Specs](#)
  - [Q&A Summary from Subcommittee Meetings \(new\)](#)
    - ✦ Includes notes for potential future enhancements
  - Custom eTRM Phase 1 Function Specs – Updated
    - ✦ In progress by OMBU

# Summary of Changes

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Cal TF Staff recommends the following changes based on stakeholder input/discussion:

## Custom Tool View

- Show the tool Version in the download button
- Include the tool Version in the filename when downloading a custom tool
- Add “Source Description” rich text block to provide additional information, including hyperlinks, with a custom tool

## Including a Custom Tool in a Characterization

- Enable option to link/embed calculation tools within the Measure Characterization
  - Need stakeholder input on link or button (next page)

## Custom Tools in Calculations

- Show the tool Version in the download button

## Creating a Custom Tool

- Add “Effective Start Date” (required) and “End Date” (optional)

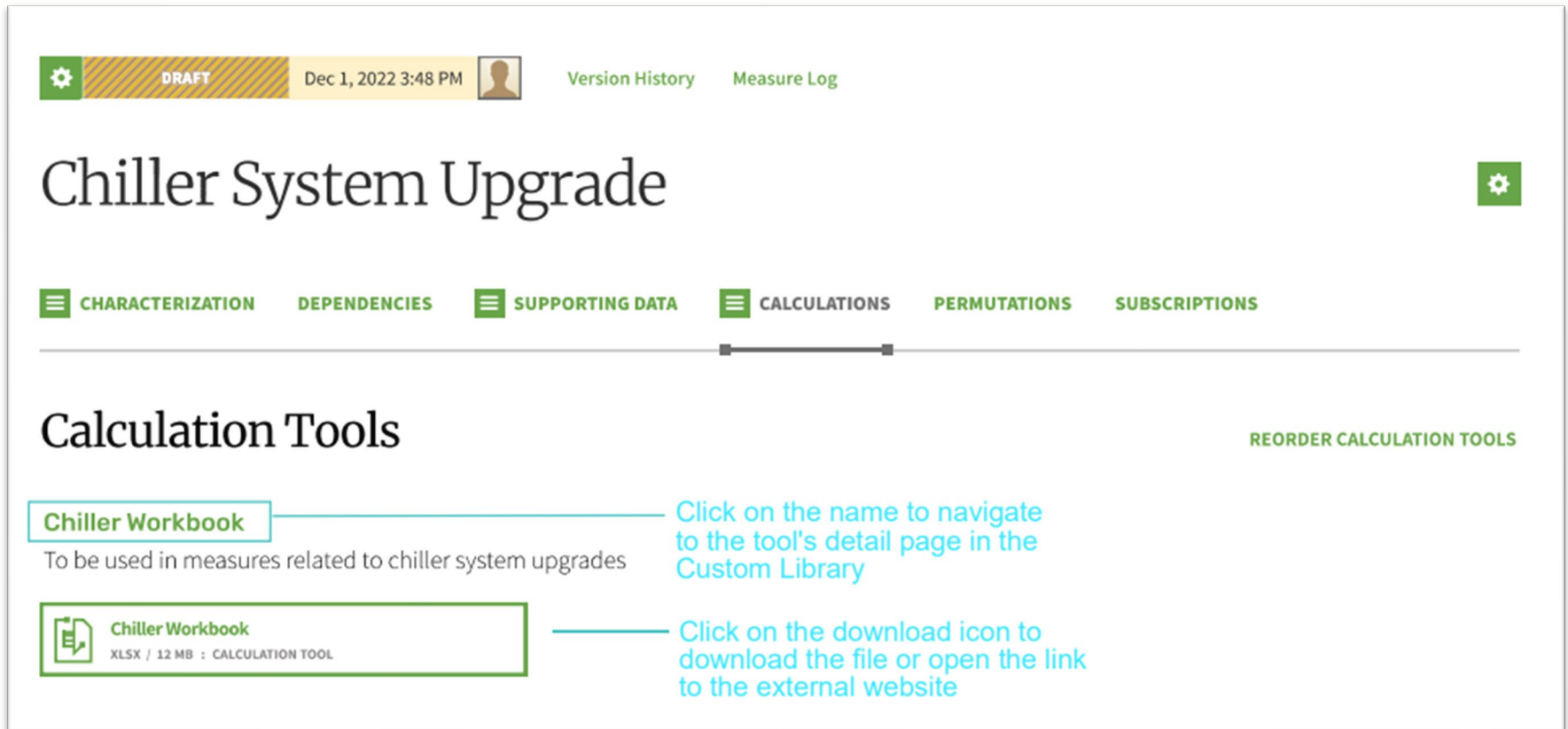
## Creating a Custom Measure

- Change “Effective Date” to “Effective Start Date” (to be consistent with the deemed measure view)

NOTE: Many comments saved for potential future enhancements; see [Q&A Summary](#)

# Custom Measure > Calculations Tab

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The screenshot displays the 'Chiller System Upgrade' interface. At the top, there is a status bar with a gear icon, a 'DRAFT' label, a timestamp 'Dec 1, 2022 3:48 PM', a user profile icon, and links for 'Version History' and 'Measure Log'. Below this is the main title 'Chiller System Upgrade' with a gear icon on the right. A navigation menu includes 'CHARACTERIZATION', 'DEPENDENCIES', 'SUPPORTING DATA', 'CALCULATIONS' (which is highlighted with a thick line), 'PERMUTATIONS', and 'SUBSCRIPTIONS'. The main content area is titled 'Calculation Tools' and features a 'REORDER CALCULATION TOOLS' link. A list of tools is shown, with the first tool, 'Chiller Workbook', highlighted in a light blue box. A callout line points from the tool name to a text box explaining that clicking the name navigates to the tool's detail page. Another callout line points from the download icon to a text box explaining that clicking the icon downloads the file or opens an external link.

**Chiller System Upgrade**

CHARACTERIZATION DEPENDENCIES SUPPORTING DATA **CALCULATIONS** PERMUTATIONS SUBSCRIPTIONS

**Calculation Tools** REORDER CALCULATION TOOLS

**Chiller Workbook** Click on the name to navigate to the tool's detail page in the Custom Library

To be used in measures related to chiller system upgrades

**Chiller Workbook** XLSX / 12 MB : CALCULATION TOOL Click on the download icon to download the file or open the link to the external website

# Custom Measure > Characterization

## Table of Contents

Technology Summary  
Measure Case Description  
Base Case Description  
Code Requirements  
Program Requirements  
Program Exclusions  
Data Collection Requirements

Electric Savings (kWh)  
Peak Electric Demand Reduction (kW)  
Gas Savings (Therms)  
Life Cycle  
Base Case Material Cost  
Measure Case Material Cost  
Base Case Labor Cost

Measure Case Labor Cost  
Net-to-Gross  
Gross Realization Rate (GRR)  
Non-Energy Impacts  
DEER Differences Analysis

### Technology Summary

 Chiller Workbook  
XLSX / 12 MB : CALCULATION TOOL

### Measure Case Description

### Base Case Description

#### Discussion topic:

#1. Would this feature be useful? (As an eTRM user reads the text, they have immediate access to the file). OR Do we prefer to keep just one central location to access custom tools (i.e. the "Calculations" tab) to maintain a simple UI and avoid possible confusion on where to go to download custom tools

#2. When clicking on the embedded icon, what should be the eTRM action - (a) download the file OR (b) navigate to the Calculations tab

OR to the Custom Tool View, where other versions can be accessed



# Custom Tool View

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⚙️
chillerWorkbook-002 CPUC APPROVED

Dec 30, 2022 12:05 PM

Version History

Access past versions of the tool and the incremental changes between versions

< CUSTOM LIBRARY

## Chiller Workbook

DEPENDENCIES
SUBSCRIPTIONS

Version and status  
  
Name

**Calculation Tool**

To be used in measures related to chiller system upgrades.

**Chiller Workbook**

XLSX / 12 MB : CALCULATION TOOL

Type
Full description
Download button with name, file metadata, and type

A calculation tool's detail view has the same tabs as a Shared Parameter

The dependencies tab allows the user to view all downward dependencies, i.e. all the eTRM objects that depend on this custom tool

The subscriptions tab allows the user to subscribe to announcements related to this calculation tool

**Dependencies view:**

| ASSOCIATED OBJECT      | VERSION    | STATUS        | TYPE    |
|------------------------|------------|---------------|---------|
| Chiller System Upgrade | CMAP001-01 | CPUC Approved | Measure |

# Questions

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- Preferences for the Custom Tools link/button embedded in Measure Characterizations?
- Need for additional Q&A on eTRM for Phase 1 Custom?
- Need for eTRM Overview re: functions and features that could be useful for Custom?

# ISP White Paper



**CALIFORNIA**  
TECHNICAL FORUM

**ARLIS REYNOLDS  
CHAS EHRlich  
SPENCER LIPP**

# Background

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- Background
  - Highest scoring topic in TF White Paper Survey
  - See [WP ISP Brainstorm](#) from December TF meeting
  - TF affirmed White Paper topic in January
  
- Agenda
  - Present purpose, approach
  - Stakeholder input
    - ✦ Objectives
    - ✦ Approach and activities
    - ✦ Sources of existing data/information
    - ✦ Volunteers
  - Next steps – form ISP Subcommittee

# Purpose

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## Objectives

1. Streamline ISP process
  - a) Developing ISPs
  - b) Communicating ISP updates/outcomes
2. Make ISPs accessible, transparent, informative, and up-to-date
3. Facilitate sharing of ISP data
4. Develop strategy to keep ISP information up to date
5. Identify specific market segments and products that need an ISP
6. Support clarification ISP requirements where needed

## Benefits

- Reduce cost, time to develop ISPs
- Increase certainty in outcomes
- Increase consistency of outcomes
- Increase access/transparency of ISP data/outcomes
- Improve Customer Experience
  
- Potential metrics:
  - Fewer supplemental data requests
  - Faster review times; faster project development times
  - Increase rate of adoption of ISP baselines

# Approach

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- **Data Collection**

- Completed ISP studies and outcomes
- Stakeholder input
  - ✦ Who: PAs, implementers/developers, CPUC reviewers
  - ✦ What: Data, Experience, Recommendations
  - ✦ How: Small group discussions, online survey

- **Develop template for ISP studies/outcomes**

- What information should be clearly available (e.g., to clarify relevance)?
- What information and level of detail should be provided in dispositions?
- How can we make clear/consistent the bounds for each SP determination?
- How should information be organized, characterized (e.g., to facilitate searching)?

- **Summarize/characterize existing ISP results/outcomes and data**

- Existing resources
- Existing challenges

- **Summarize clarifications needed or helpful for stakeholders**

- Areas of confusion and/or inconsistency

- **Estimate baseline metrics**

- Cost/time to develop/review ISPs, SDRs, adoption rate, awareness/sharing)

- **Develop recommendations**

- Streamline ISP process
  - ✦ Development
  - ✦ Communication
- Improve access, transparency, clarity, searching, and sharing
  - ✦ Existing and future ISP data, studies, dispositions
- Keep ISP information up to date
- Identify future ISP research needs
- Support clarification of ISP Requirements (where needed)
  - ✦ Support common understanding of what and who are acceptable references

# Discussion

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- Objectives
- Approach and activities
- Sources of existing data/information
  - CAEnergyGuidance.com
    - ✦ 9 ISP studies (most recent from Oct 2019)
    - ✦ Redacted dispositions
  - Others?
- Cal TF ISP Team
  - Champions: Chas, Spencer Lipp
  - You?

# Discussion Points for Subcommittee

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- Input on the goals and objectives
- Input on the approach and schedule/cadence of the meetings
- ID volunteers to help with a.) research, b.) writing, c.) reviewing, d.) outreach
- List of SP research targets, market sectors, delivery channels, prior standard practice assessments ripe for review
- For each area of study, ID stakeholders that should be updated regularly on progress and invited to contribute to the SPA
- Consider idea of forming market study review panel(s) for targeted market sectors (for early feedback on study objectives, tie breakers...)
- Make call to PAs to assist with data collection to assemble existing studies and dispositions
- Develop metric(s) for characterizing the level of rigor found in past ISP reports and new ISP studies (# primary and secondary sources, age of oldest and newest study, likelihood of finding bias in sources, rigor and completeness of data collection effort, reliability of the report authors (manufacturers and vendors vs regulators and non-profit market actors), etc.



# Providing clear guidance on custom projects

## Workplan Part 1 – Problem Statement, Goals, Benefits

## Workplan Part 2 – Scope, Deliverables, Schedule, Team

## Notes from previous brainstorms

- Problem Statement
  - There is no single, central, up-to-date source of custom policy/guidance
  - Stakeholders have different access to regulatory information (e.g., disposition decisions)
  - Existing regulatory communication efforts are resource-intensive and involve redundant efforts.
  - Regulatory information comes in various streams, including through ad hoc communication and confidential project-specific discussions.
  
- Goals, Metrics, Objectives
  - Propose improvements that will:
    - ✦ make current/future guidance clear and accessible to all stakeholders
    - ✦ keep guidance documents clear and current
    - ✦ Improve access and searchability to policy/guidance
    - ✦ improve understanding of guidance and predictability of project outcomes
    - ✦ facilitate clarification with regulatory authorities when needed
  - Any quantifiable metrics?
  
- Stakeholder Benefits
  - **Cost Savings**, by reducing individual stakeholder resources required to aggregate guidance info
  - **Time Savings**, by improving awareness of policy/guidance at the start of measure development
  - **Transparency**, by making the statewide summary publicly accessible
  - **Clarity and Compliance**, by improving stakeholder access to and understanding of all relevant regulatory policy/guidance.



# Providing clear guidance on custom projects

Workplan Part 1 –  
Problem Statement,  
Goals, Benefits

Workplan Part 2 –  
Scope, Deliverables,  
Schedule, Team

Notes from previous  
brainstorms

- **Scope**
  - Review workplan with CPUC; ID any concurrent CPUC efforts
  - Understand current condition: define existing types, formats, frequencies of regulatory guidance
  - Compile and organize current guidance materials
  - Survey stakeholders to identify areas to improve clarity, access, consistency, etc.
  - Develop recommendations for:
    - ✦ Improving clarity and access to current guidance
    - ✦ Distinguishing current from past/outdated guidance
    - ✦ Communicating policy guidance updates to all stakeholders
  
- **Considerations**
  - A centralized resource must be “official”
  
- **Deliverables**
  - Memo/presentation with recommendations on guidance materials (e.g., disposition database) and process
  
- **Schedule**
  - TBD
  
- **Stakeholders and Team Members**
  - IOUs, Implementers, Project Developers
  - CPUC Staff, Ex Ante and Ex Post Consultants



# Sources for Custom Policy Guidance



| Source                              | Link   | Access                                       | Use / Value |
|-------------------------------------|--|--|-------------|
| Commission Decisions (public)       |  | Public                                       |             |
| SW Custom Project Guidance Document | <a href="#">Statewide Custom Project Guidance Document, version 1.4</a> (6/2/2021) | Public                                       |             |
| CPUC CPR Guidance Documents         | <a href="#">Webpage link</a>   | Public                                       |             |
| Statewide Memos                     | CMPA   | IOU only                                     |             |
| Dispositions                        | CAEnergyGuidance.com (redacted dispositions)                                       | Public                                       |             |
| Dispositions                        | Unredacted dispositions  | IOU only                                     |             |
| Early Opinion Responses             | CMPA   | IOU only                                     |             |
| CPUC/IOU Meeting Notes              | CMPA   | IOU only                                     |             |
| IOU Resources                       |  | Implementers, subscribers, access-controlled |             |
|                                     |  |  |             |
|                                     |  |  |             |

# Questions

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- What are the sources of regulatory policy/guidance for custom?
- Which sources do you use most frequently?
- Which sources are most helpful?

# Custom Statewide Measure ID



**RANDY KWOK**  
**ARLIS REYNOLDS**

# SW Custom Naming Convention

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- Objective

- To create statewide consistency
  - ✦ Same/similar measures have the same SW Custom Measure ID across PA tracking systems
- To facilitate analysis of statewide custom measure activity
  - ✦ Easy to aggregate statewide measures and claims by measure type

- Approach

- Match SW deemed measure code convention (as much as possible)
- Review alignment, considerations for IOU/LADWP systems
- Reviewing codes effective 1/1/2023 and going forward

# Custom Measure Codes - Current State

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- IOU/POU have different conventions for custom measure codes:
  - 123456
  - CAA99
  - AC-12345
- Total # of custom measures by IOU/POU:
  - SCE - 546
  - SCG - 195
  - PG&E - 463
  - SDG&E - 902
  - LADWP - ?

# Current State: SoCalGas

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- SCG has our own measure code system to classify measures based upon an umbrella high level description as gas has very unique measures. For example... We categorize our measures based upon what type of heating... 3 of the most common are the following:
  - 1. Hot Water
  - 2. Steam
  - 3. Process Heating
- Under those, we have subcategories: IE)
  - Equipment replacement,
  - Controls,
  - Water Treatment,
  - Reconfig/upgrade,
  - Condensate Recovery,
  - Economizer,
  - Insulation,
  - Heat Recovery,
  - Process Improvement
- Heat Recovery and Process Improvement can be widely use for many other specific measures. That's why we kept it high level in order to group many measures closest to the measure categories. **We didn't want a measure list that is 100 and never use them.**
- For custom, you have to keep it high level to capture more unique measures vs being very specific. It'll be up to the Engineering/Project Developer to categorize it correctly. I'm only speaking on behalf for the Natural Gas side.



# Deemed SW Measure ID Structure

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- The **Statewide Measure ID** identifies a unique measure and is based on the Use Category.
- The nomenclature of this identifier is shown below. This convention is tied to CEDARS categories.
- The **Statewide Measure ID** is auto-generated by the eTRM to ensure that numbers to not duplicate.

## SWWH003-03

| Statewide Designator          | Use Category                      | Measure Number   | Version Number  |
|-------------------------------|-----------------------------------|--|---|
| SW                            | AP - Appliance or Plug load       | Automatically assigned, starts at 001 for the first measure in the use category. | Automatically assigned, starting at 01 for the first "Published" version of a measure package (MP). |
|                               | BE - Building Envelope            |  |   |
|                               | CR - Commercial Refrigeration     |  |   |
|                               | CA - Compressed Air               |  |   |
|                               | CA - Compressed Air               |  |   |
|                               | FS - Food Service                 |  |   |
|                               | HC - HVAC                         |  |   |
|                               | LG - Lighting                     |  |   |
|                               | MI - Miscellaneous                |  |   |
|                               | PR - Process                      |  |   |
|                               | RE - Recreation                   |  |   |
|                               | SV - Service                      |  |   |
|                               | WB - Whole Building               |  |   |
|                               | WH - Service & Domestic Hot Water |  |   |
| WP - Water Pumping/Irrigation |                                   |  |   |

# Deemed SW Measure ID Structure

## SWWH003-03-A

| SW Measure ID | Description               | Location | Fuel Type | Flow Rate | Measure Application Type | Statewide Measure Offering ID | Measure Offering Description (Text)                         |
|---------------|---------------------------|----------|-----------|-----------|--------------------------|-------------------------------|---|
| SWWH001-03    | Faucet Aerator            | Kitchen  | Gas       | 1.5 gpm   | AOE                      | <b>A</b>                      | Faucet, kitchen aerator, 1.5 gpm, gas, AOE                  |
| SWWH001-03    | Faucet Aerator            | Kitchen  | Gas       | 1.5 gpm   | AR                       | <b>I</b>                      | Faucet, kitchen aerator, 1.5 gpm, gas, AR                   |
| SWWH001-03    | Faucet Aerator            | Lavatory | Electric  | 1.2 gpm   | AOE                      | <b>F</b>                      | Faucet, lavatory aerator, 1.2 gpm, electric, AOE            |
| SWWH001-03    | Faucet Aerator            | Lavatory | Electric  | 1.2 gpm   | AR                       | <b>N</b>                      | Faucet, lavatory aerator, 1.2 gpm, electric, AR             |
| SWWH001-03    | Faucet Aerator            | Lavatory | Electric  | 1.0 gpm   | AR                       | <b>O</b>                      | Faucet, lavatory aerator, 1.0 gpm, electric, AR             |
| SWWH001-03    | Faucet Flow Control Valve | Lavatory | Gas       | 1.0 gpm   | AOE                      | <b>S</b>                      | Faucet, lavatory flow control valve, 1.0 gpm, gas, AOE      |
| SWWH001-03    | Faucet Flow Control Valve | Lavatory | Electric  | 1.0 gpm   | AOE                      | <b>W</b>                      | Faucet, lavatory flow control valve, 1.0 gpm, electric, AOE |

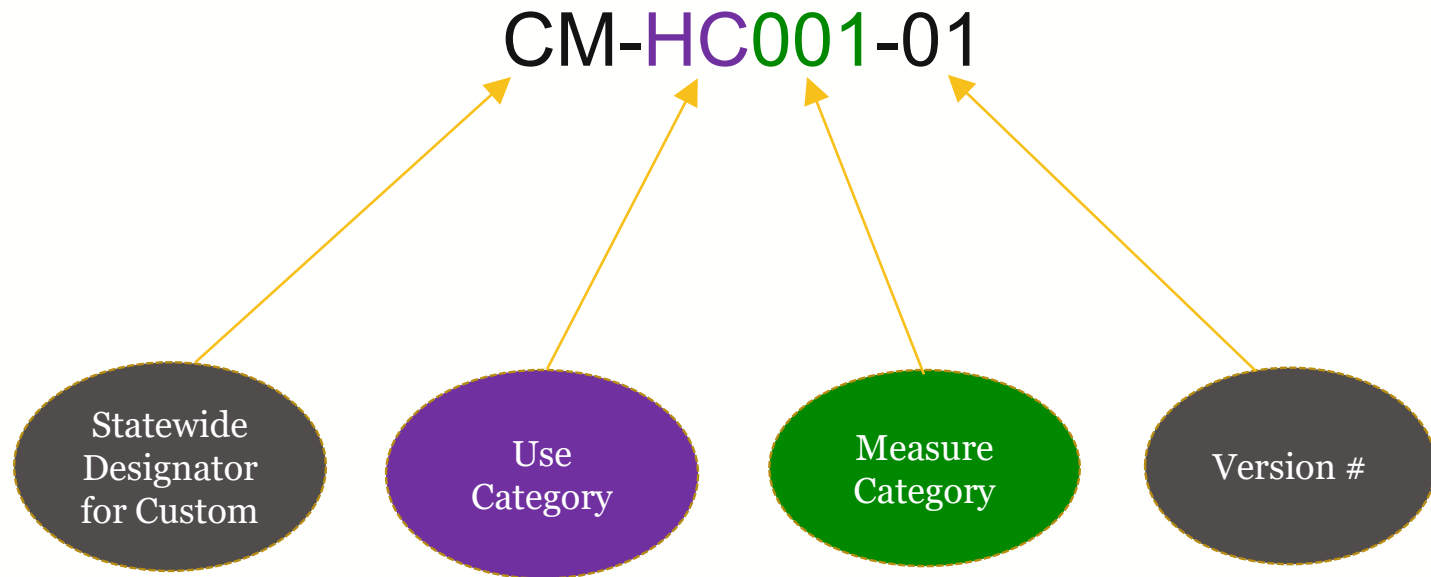
# Deemed SW Measure Detail ID Structure

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- **Measure Detail ID** is a unique identifier for each permutation. This field is populated with an auto-generated identifier created as a concatenation of:
  - Measure ID
  - Version ID
  - Offering ID
  - Measure Application Type
  - Delivery Type
  - Sector
  - Bldg Type
  - Bldg Vint
  - Bldg HVAC
  - Bldg Loc
  - NTG\_ID
  - GSIA\_ID
  - PA Type
  - PA

# Custom SW Measure ID Structure

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# Custom SW Measure ID Structure

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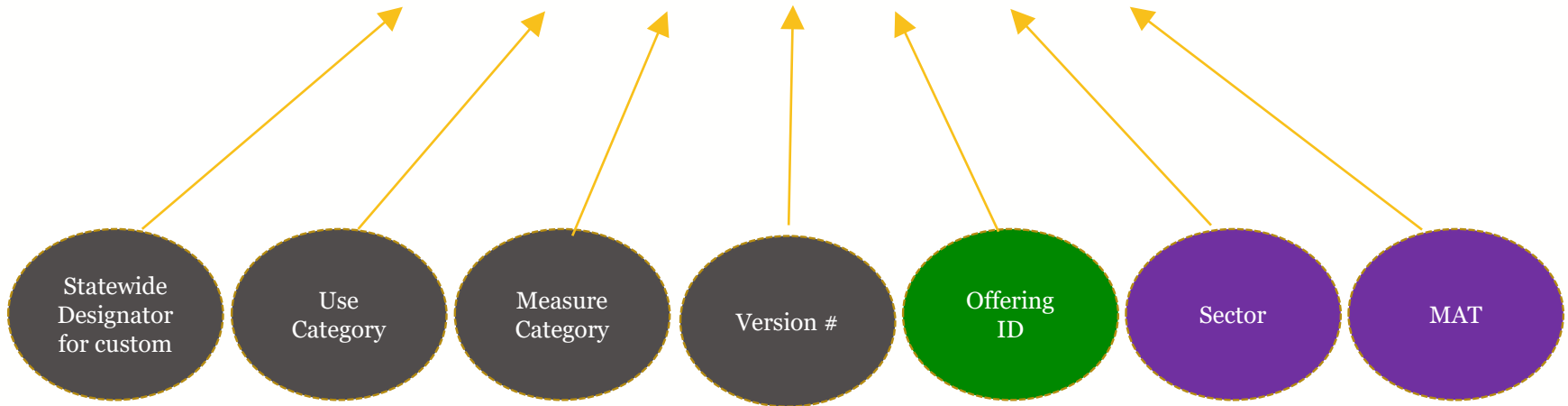
| Use Category |                              |
|--------------|------------------------------|
| AP           | Appliance or Plug load       |
| BE           | Building Envelope            |
| CR           | Commercial Refrigeration     |
| FS           | Food Service                 |
| HC           | HVAC                         |
| LG           | Lighting                     |
| MI           | Miscellaneous                |
| MT           | Motors                       |
| PR           | Process                      |
| PM           | Pumps                        |
| RE           | Recreation                   |
| RF           | Refrigeration                |
| SV           | Service                      |
| WH           | Service & Domestic Hot Water |
| WP           | Water Pumping/Irrigation     |
| WB           | Whole Building               |

| Measure Category |                          |
|------------------|--------------------------|
| 1xx              | Equipment Retrofit       |
| 2xx              | System Upgrade/Reconfig. |
| 3xx              | Controls                 |
| 4xx              | Other                    |
| 5xx              | RCx                      |

# Custom SW Measure Detail ID Structure

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CM-HC001-01-A-IND-NR



|             |
|-------------|
| Any         |
| Commercial  |
| Industrial  |
| Agriculture |
| Non-Res     |

|     |
|-----|
| NR  |
| NC  |
| AR  |
| AOE |
| BRO |
| BW  |

# Example: RCx

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| Use Category | Measure Code | Version | OfferingID*   | MAT | Delivery Type | Sector |
|--------------|--------------|---------|---|-----|---------------|--------|
| HC (HVAC)    | 5XX (RCx)    | 01      | A – Scheduling Optimization<br>B – Economizer Optimization<br>C – Static Pressure Reset<br>D – Supply Air Temperature Reset<br>E – Fan Speed Optimization<br>F – VAV Flow and Reheat Flow Adjustment<br>G – CHW Plant Lockout Control<br>H – Chiller Staging Sequence Optimization<br>I – CHW Temperature Reset<br>J – CW Temperature Reset<br>K – Water Side Economizer Optimization<br>L – Cooling Tower Staging Sequence Optimization<br>M – Controls Optimization for Existing SCHWP VFD<br>N – CHW Differential Pressure Reset<br>O – Controls Optimization for Existing CW Pump VFD<br>P – HW Lockout Control<br>Q – Boiler Staging Sequence (for multi-boiler systems)<br>R – HW Temp Reset<br>S – Controls Optimization for Existing SHWP VFD<br>T – HW Differential Pressure Reset | BRO | DnCust        | Any    |

\* OfferingIDs based on controls measures in the PG&E HVAC Tool

# Example: Chiller System Upgrade

| Use Category | Measure Code                 | Version | OfferingID*   | MAT                          | Delivery Type | Sector |
|--------------|------------------------------|---------|---|------------------------------|---------------|--------|
| HC (HVAC)    | 2XX (Chiller System Upgrade) | 01      | A – Chiller Replacement (or Load Change) (NC/NR/AR)<br>B – Secondary Chilled Water Pump VFD (AOE)<br>C – Condenser Water Pump VFD (AOE)<br>D – Chilled Water Plant Lockout Control (BRO)<br>E – Chiller Staging Sequence Optimization (BRO)<br>F – Chilled Water Temperature Reset (BRO)<br>G – Condenser Water Temperature Reset (BRO)<br>H – Water Side Economizer Optimization (BRO)<br>I – Cooling Tower Staging Sequence Optimization (BRO)<br>J – Chilled Water Differential Pressure Reset (BRO) | NC<br>NR<br>AR<br>AOE<br>BRO | DnCust        | Any    |

\* OfferingIDs based on controls measures in the PG&E HVAC Tool



# Example: Steam Boilers

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One Custom Measure for **Steam Boiler** Equipment....

| Use Category    | Measure Code          | Version | Offering ID  | MAT      | Delivery Type | Sector |
|-----------------|-----------------------|---------|--|----------|---------------|--------|
| PR<br>(Process) | 1XX<br>(Steam Boiler) | 01      | A – Custom Steam Boiler (NR)<br>B – Custom Steam Boiler (AR) | NR<br>AR | DnCust        | Any    |

... and a different Custom Measure for **Steam Boiler Add-On** Equipment/Controls

| Use Category    | Measure Code            | Version | Offering ID   | MAT | Delivery Type | Sector |
|-----------------|-------------------------|---------|---|-----|---------------|--------|
| PR<br>(Process) | 3XX<br>(Boiler Add-ons) | 01      | A – Economizer<br>B – Parallel positioning controls<br>C – O2 Trim controls<br>D – Burner retrofit (TBD)<br>E – VFD/ Blower controls (TBD)<br>F – Possible reset controls (TBD) | AOE | DnCust        | Any    |

# Questions

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- Hurdles for implementing the approach?
- Would it help to have more program designation in measure category?
- Would it help to have more equipment type in measure category such as compressor, condenser?
- Is it better to have more measure ID and less offering ID, or vice versa?
- How to handle RCx/Commissioning/MBCx measures?
- Is Whole Building a separate category in itself?

## Wrap-Up & Next Steps

- **Action Items**
  - Share input on:
    - ✦ eTRM Development
    - ✦ SW Custom Measure ID structure
  - Join ISP White Paper team
  - Measure Groups continue standardization efforts
  
- **Upcoming**
  - Measure Group meetings
  - 3/23 – TF Meeting (remote)
  - **TBD** – eTRM Enhancement Charette (LA)
  - 4/4 – Custom Subcommittee Meeting (remote)



# Open Discussion

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