

OMBU + CALIFORNIA TECHNICAL FORUM

eTRM Custom Measures

Design | Version 1.2 | 01/24/2023

This “Phase 1” of eTRM development for Custom creates a new measure type – Custom Measures – to host custom measure information (e.g., custom measure characterizations, savings calculation methods, etc.) and custom calculation tools for use in calculating custom measure savings. These developments focus on the eTRM as a source for calculation guidance and tools for custom measures; they do NOT include any functions related to intake, storage, or tracking of site-specific data.

Custom Measures are a type of measure that do not have pre-calculated savings values but instead document data requirements and calculation methods to determine energy savings when a custom project is implemented.

This document outlines the supporting views and functionality for this new type of measure in eTRM.

Custom Library & Calculation Tools

Calculation tools are tools outside the eTRM (usually Excel-based files) that are used to perform and document calculations used for Custom Measures, and can be linked to one or more Custom Measures in the eTRM.

The Custom Library is a new section of the eTRM to host calculation tools and other custom resources.

Custom Library View



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Custom Library

Calculation Tools

Calculation tools are files used to calculate savings for custom measures.

[Click on the name to navigate to the tool's detail page](#)

Boiler Load Balance and Scorecard Tool

Excel workbook to determine boiler load factor

Chiller Workbook

To be used in measures related to chiller system upgrades

DOE MEASUR Calculators

External weblink to DOE's suite of MEASUR calculators

HVAC Tool

Excel workbook for calculating savings for multiple HVAC measures on CHW, HW, and air-side systems (also known as the PG&E HVAC Tool)

The Custom Library is a new section in the eTRM that lists all custom tools.

Project developers may click on each name (hyperlink text in green) to navigate to each tool's detail view, where they can read the tool's description, view its version history, view linked custom measures, and download the tool for their custom project.

The versioning, editing, and access controls of calculation tools are identical to other eTRM Shared Data objects.

Discussion topic:

What are the different categories for custom tools? (Calculation tool, M&V plan, ...)

Templates

Templates are resources to help with the development of projects, studies, and reports.

Project Feasibility Study Template, version 1.0

This document is a template for implementers to use and fill out in describing a feasibility study to be submitted to the CPUC.

Post Installation Summary Report, v1.0

This document is a template for implementers/project developers to use and fill out as the post-installation report that is to be submitted...

Custom tools are shown grouped by type. Each column is one type of tool listed in alphabetical order, with a description of up to two lines of text.

Admin users may manage custom tools in Admin Central



Calculation 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

Version and status

Name

Chiller Workbook

DETAILS

DEPENDENCIES

SUBSCRIPTIONS

View all the eTRM measures that use this tool. This is one method to see related measures

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

Discussion topic:
Will the list of deemed-workflow statuses cover all the cases for a custom tool?

- Draft
- CalTF Affirmation
- POU Ready
- CPUC Review
- CPUC Approved

Dependencies view:

ASSOCIATED OBJECT	VERSION	STATUS	TYPE
Chiller System Upgrade	CMAPO01-01	CPUC Approved	Measure

Custom Measures

This section presents the appearance of a Custom Measure as seen by both a Base User (read only) and Measure Developer (editing)

Custom Measure View

A Custom Measure has the same appearance as a Deemed Measure

Custom Measures are distinguished from Deemed Measures by the Measure ID (beginning with CM) and the Measure Type (see below)

Measures Type is a new piece of data in the Measure Details

Deemed Measures will also have this new piece of data, in that case the type being "Deemed"

- MEASURE DATA
- PROPERTIES
- eTRM STATS
- CUSTOM LIBRARY
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CMAP001-01 Dec 1, 2022 1:00 PM Version History

Chiller System Upgrade

- CHARACTERIZATION
- DEPENDENCIES
- SUPPORTING DATA
- CALCULATIONS
- PERMUTATIONS
- SUBSCRIPTIONS

Discussion Topic:
This 1st phase custom measures will have the prefix of "CM".

There is a future potential to add more measure types and prefixes, such as NMEC

Measure Details

MEASURE TYPE Custom	SOURCE DESCRIPTION CMAP001-01-1
MEASURE ID CMAP001	USE CATEGORY AP - Appliance or Plug Load
MEASURE NAME Chiller System Upgrade	EFFECTIVE DATE January 1, 2023

Measure Package

The Measure Package includes: CSV files of parameters, value tables, permutation table and reference files, a PDF of the characterization, as well as the measure JSON file (JavaScript Object Notation, a text file format used for structured data).

[Download Measure](#)

Or you can download a PDF of the characterization only, separate from the full Measure Package.



Table of Contents

Technology Summary	Electric Savings (kWh)	Measure Case Labor Cost
Measure Case Description	Peak Electric Demand Reduction (kW)	Net-to-Gross
Base Case Description	Gas Savings (Therms)	Gross Realization Rate (GRR)
Code Requirements	Life Cycle	Non-Energy Impacts
Program Requirements	Base Case Material Cost	DEER Differences Analysis
Program Exclusions	Measure Case Material Cost	
Data Collection Requirements	Base Case Labor Cost	

GSIA section is replaced by GRR, with default value = 0.9

Importing a Calculation Tool into a Custom Measure

Measure Developers may add calculation tools by importing them from the Custom Library



RELEASE ASSIGNMENT

You are now assigned to this measure. No other user will be permitted to make edits until you release it.

eTRM
OFFICIAL SOURCE
CA Energy Efficiency
Measure Data



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DRAFT

Dec 1, 2022 3:48 PM



Version History

Measure Log

Chiller System Upgrade



CHARACTERIZATION

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Upward

SHARED MEASURE PARAMETERS

Building HVAC



v010 CPUC APPROVED

Building Location



v010 DRAFT

Building Type



v010 DRAFT

IMPORT A SHARED PARAMETER

SHARED VALUE TABLES

Constants



v010 DRAFT

Effective Useful Life and
Remaining Useful Life



v010 DRAFT

IMPORT A SHARED VALUE TABLE

CALCULATION TOOLS

This measure does not contain any calculation tools.

IMPORT A CALCULATION TOOL



Base users would see this view as read-only, with no import buttons

The Measure Developer may choose the calculation tool version to import

RELEASE ASSIGNMENT You are now as

DRAFT Dec 1, 2022 3:48

Chiller System

CHARACTERIZATION DEPENDENCIES

Upward

SHARED MEASURE PARAMETER

- Building HVAC
- Building Location
- Building Type

IMPORT A SHARED PARAMETER

SHARED VALUE TABLES

- Constants
- Effective Useful Life and Remaining Useful Life

VERSION HISTORY

Chiller Workbook

VERSION ID	STATUS	CHANGE DESCRIPTION
P chillerWorkbook-002-1	Published	Short description of this change
P chillerWorkbook-001-1	Draft	Short description of this change

Save Cancel

The calculation tool is now available within the measure



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RELEASE ASSIGNMENT

You are now assigned to this measure. No other user will be permitted to make edits until you release it.



DRAFT

Dec 1, 2022 3:48 PM



Version History

Measure Log

Chiller System Upgrade



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SHARED MEASURE PARAMETERS

Building HVAC	v010 CPUC APPROVED
Building Location	v010 DRAFT
Building Type	v010 DRAFT

IMPORT A SHARED PARAMETER

SHARED VALUE TABLES

Constants	v010 DRAFT
Effective Useful Life and Remaining Useful Life	v010 DRAFT

IMPORT A SHARED VALUE TABLE

CALCULATION TOOLS

Chiller Workbook	v002 CPUC APPROVED
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IMPORT A CALCULATION TOOL

Calculation Tools in Calculations

Calculation tools added to a Custom Measure are listed in the Calculations tab

RELEASE ASSIGNMENT You are now assigned to this measure. No other user will be permitted to make edits until you release it.

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DRAFT Dec 1, 2022 3:48 PM [Version History](#) [Measure Log](#)

Chiller System Upgrade

CHARACTERIZATION **DEPENDENCIES** **SUPPORTING DATA** **CALCULATIONS** **PERMUTATIONS** **SUBSCRIPTIONS**

Calculation Tools [REORDER CALCULATION TOOLS](#)

Chiller Workbook

To be used in measures related to chiller system upgrades

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

Chiller Workbook

XLSX / 12 MB : CALCULATION TOOL

Click on the download icon to download the file or open the link to the external website

Calculations

Calculations are the primary mechanism for eTRM to convert input values (e.g., hours of use, efficiency factors, load factor, material and labor costs) into useful output values including energy savings, natural gas impacts, and incremental measure costs. Calculations are performed serially, starting with the first equation on this page and progressing down until all equations are done. Measures with savings determined via simulation modeling generally have limited or no savings equations here; more information regarding savings approaches can be found on the **Characterization** tab for this measure.

[ADD CALCULATION](#)

[REORDER CALCULATIONS](#)

Multifamily Common Area Scaling Factor in ratio [CONFIGURE](#)

VALIDITY	EQUATION (RATIO)
	$\frac{constCycles_MFm}{constCycles_single}$

Including a Calculation Tool in a Characterization

Measure Developers may use the rich text editing functionality to embed a measure's calculation tool into the body of a characterization section

RELEASE ASSIGNMENT You are now assigned to this measure. No other user will be permitted to make edits until you release it.

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Chiller System Upgrade

- CHARACTERIZATION**
- DEPENDENCIES
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Measure Details

MEASURE TYPE Custom	SOURCE DESCRIPTION CMAP001-01-1
MEASURE ID CMAP001	USE CATEGORY AP - Appliance or Plug Load
MEASURE NAME Chiller System Upgrade	EFFECTIVE DATE January 1, 2023

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Download Measure

Or you can download a PDF of the characterization only, separate from the full Measure Package.

Characterization
PDF

Table of Contents

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Measure Case Description	Peak Electric Demand Reduction (kW)	Net-to-Gross
Base Case Description	Gas Savings (Therms)	Gross Realization Rate (GRR)
Code Requirements	Life Cycle	Non-Energy Impacts
Program Requirements	Base Case Material Cost	DEER Differences Analysis
Program Exclusions	Measure Case Material Cost	
Data Collection Requirements	Base Case Labor Cost	

Technology Summary

Cancel **SAVE CHANGES**

B I [Rich Text Editor Icons] Styles - Normal - Source [Icons]

chillerWorkbook-002

Embedded calculation tool

Calculation tool embed button

body p

Base users would see this view as read-only, with no edit functions

Upon save, the calculation tool is visible within the characterization section

RELEASE ASSIGNMENT You are now assigned to this measure. No other user will be permitted to make edits until you release it.

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⚙️ DRAFT
Dec 1, 2022 1:00 PM
👤
Version History
Measure Log

Chiller System Upgrade

☰ CHARACTERIZATION
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Measure Details

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Or you can download a PDF of the characterization only, separate from the full Measure Package.

[Characterization PDF](#)

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Program Requirements	Base Case Material Cost	DEER Differences Analysis
Program Exclusions	Measure Case Material Cost	
Data Collection Requirements	Base Case Labor Cost	

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

Base users would see this page as read-only. They won't see the edit button

Building Permutations

Permutations are configured in the same way as other measures, from the configure option on the permutations tab

 **RELEASE ASSIGNMENT** *You are now assigned to this measure. No other user will be permitted to make edits until you release it.*

eTRM
OFFICIAL SOURCE
CA Energy Efficiency
Measure Data



DRAFT

Dec 1, 2022 3:48 PM



[Version History](#)

[Measure Log](#)

Chiller System Upgrade



CHARACTERIZATION

DEPENDENCIES



SUPPORTING DATA



CALCULATIONS

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No permutations have been built for this measure.

CONFIGURE 

Configure fields



Custom Measures do not have Shared Reports, Custom Reports, Other Reports, or CET Integrations

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Custom Measures are subject to a reduced data spec compliance requirement, which affects permutation configuration

Discussion topic:
View the Data Spec Fields file to verify the list of permutation configurations for custom measures

CONFIGURE PERMUTATION FIELDS

Chiller System Upgrade #CMAP001

Data spec fields

Additional fields

PERMUTATION CHARACTERIZATION

FIRST BASE CASE DESCRIPTION (STRING)

Not mapped
Please refer to the functional spec for specifics of the permutation configuration options

SECOND BASE CASE DESCRIPTION (STRING)

Not mapped

MEASURE CASE DESCRIPTION (STRING)

Not mapped

EXISTING DESCRIPTION (STRING)

Not mapped

STANDARD DESCRIPTION (STRING)

Not mapped

COMMON MEASURE PARAMETERS

MEASURE APPLICATION TYPE (STRING)

Not mapped

BUILDING TYPE (STRING)

Save

Cancel

Delete

Custom Measures in the eTRM

Custom Measures appear in the Measure Catalog (new tab)
and Search Results

Custom Measures in the Measure Catalog

Custom Measure are shown in a new tab in the Measure Catalog



Measure Catalog

DEEMED MEASURES CUSTOM MEASURES MEASURE REPORTS

The existing "Measures" tab has been renamed to "Deemed Measures" and a "Custom Measures" tab has been added

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Find by keyword...



Add a Filter



1-5 of 5 measures



Starting row

1

Rows per page

25

Go

NAME ▲	MEASURE VERSION ID ▲	TYPE ▲	USE CATEGORY ▲	PUBLISHED ▲
Chiller System Upgrade	CMAP001-01	Custom	AP - Appliance or Plug Load	Dec 1, 2022
Custom Measure Name	CMAP002-01	Custom	AP - Appliance or Plug Load	Dec 5, 2022
Custom Measure Name	CMAP003-01	Custom	AP - Appliance or Plug Load	Dec 2, 2022
Custom Measure Name	CMAP004-01	Custom	AP - Appliance or Plug Load	Dec 1, 2022
Custom Measure Name	CMAP005-01	Custom	AP - Appliance or Plug Load	Dec 15, 2022



1-5 of 5 measures



Starting row

1

Rows per page

25

Go

Custom Measures in Search Results

Custom Measure appear in search results distinguished by their ID



chiller



HOME

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6 SEARCH RESULTS

1-6 of 6 search results

SWHC052-01: Air-Cooled Chiller, Path B

... **chiller** (s) to cool and distribute water that is used to cool air to meet building cooling demand. An air-cooled **chiller** rejects heat from the refrigeration cycle to the ambient air using fans (forced convection). Even though an air-cooled **chiller** is less efficient than a water-cooled **chiller**, it provides other advantages: lower first cost, lower maintenance ...

CMAP001-01: Chiller System Upgrade

Custom measure

... **chiller** (s) to cool and distribute water that is used to cool air to meet building cooling demand. An air-cooled **chiller** rejects heat from the refrigeration cycle to the ambient air using fans (forced convection). Even though an air-cooled **chiller** is less efficient than a water-cooled **chiller**, it provides other advantages: lower first cost, less complex...

SWHC005-02: Water-Cooled Chiller

... **chiller** are based on the unit operating under standard test conditions, normally determined by AHRI Standard 550/590 – 20163. Chillers have two different energy efficiency rated conditions: 1) full load efficiency (EER, kWh/ton) and 2) part load efficiency (integrated part load value (IPLV)). The measure case is defined as a variable speed water-cooled **chiller** for use in nonresidential buildings ...

SWHC008-01: Variable Speed Drive for a Central Plant System

... **chiller** and circulating this chilled water through a chilled water coil in an air handler or throughout the building zones. A **chiller** is either air-

Admin Functionality

Creating a Calculation Tool

An admin user may create a new calculation tool by selecting "Manage calculation tools", then selecting "Create".

The Manage calculation tools panel has the same appearance and functionality as the Manage shared parameters panel.

eTRM Management

CONTENT

Measures

The primary object in eTRM, comprising all content needed to develop a regulated measure and build its permutations.

[Manage measures](#)

[Manage archived measures](#)

References

A library of authoritative information sources which can be cited by assorted objects throughout eTRM.

[Manage references](#)

Shared Parameters

Parameters are used to characterize individual measure permutations that qualify energy savings and (in some cases) costs. Shared parameters are those that are used by multiple measures in the eTRM.

[Manage shared parameters](#)

Shared Value Tables

Value tables are used to assign specific numeric values to equations as well as to define values relevant to measure tracking and reporting. Shared value tables are used by multiple measures in the eTRM.

[Manage shared value tables](#)

Calculation Tools

Calculation tools are files used to calculate savings in Custom Measures.

[Manage calculation tools](#)



Calculation tools require a title, description, type, source, and status

Discussion topic:
What are the different categories for custom tools? (Calculation tool, M&V plan, ...)

- Calculation tool type may be one of the following:
- Calculation Tool
 - M&V Plan
 - Other

If a calculation tool's source is a file, a compatible file type must be uploaded

CREATE A NEW

Calculation Tool

TITLE*

Chiller Workbook

DESCRIPTION*

B I Normal Source

To be used in measures related to chiller system upgrades

body p

CALCULATION TOOL TYPE*

Calculation Tool

SOURCE*

- File Import
 External Link

CHOOSE FILE TO IMPORT

Choose File chiller_workbook.xlsx

Allowed file formats are: Excel (.xlsx, .xlsb, .xlsm), Word (.docx), ZIP, or PDF

STATUS*

CPUC Approved

Save

Cancel

Discussion topic:
Will the list of deemed-workflow statuses cover all the cases for a custom tool?

Draft
CaITF Affirmation
POU Ready
CPUC Review
CPUC Approved

Calculation tools require a title, description, type, source, and status

If a calculation tool's source is a link, the required information is a URL rather than a file

CREATE A NEW

Calculation Tool

TITLE*

Chiller Workbook

DESCRIPTION*

B **I** Normal Source

To be used in measures related to chiller system upgrades

body p

CALCULATION TOOL TYPE*

Calculation Tool

SOURCE*

File Import

External Link

URL*

https://externalsource.com/path/to/calculation-tool.xlsx

STATUS*

CPUC Approved

Save

Cancel

Newly created calculation tools first appear as an unpublished draft. In order to be published and visible to all eTRM users the draft must be committed.

MANAGE

Calculation Tools

Create

TITLE	DESCRIPTION	TYPE	LAST UPDATED
P Boiler Load Balance and Scorecard Tool	Excel workbook to determine boiler load...	Calculation Tool	Jan 1, 2023
Chiller Workbook	To be used in measures related to chiller...	Calculation Tool	Jan 15, 2023
P DOE MEASUR Calculators	External weblink to DOE's suite of MEASU...	M&V Plan	Jan 5, 2023
P HVAC Tool	Excel workbook for calculating savings for...	Calculation Tool	Jan 1, 2023

Selecting a calculation tool allows the user to view or delete it

Scorecard Tool

[Chiller Workbook](#) **VIEW** **DELETE** **X** in measures related to chiller...

P [DOE MEASUR Calculators](#) External weblink to DOE's suite of MEASUR calculators

Creating a Custom Measure

A Custom Measure is created from the Admin panel in the the same way as a Deemed Measure

All measures will need to indicate their Measure Type, which is a choice of "Deemed" or "Custom"

All custom measures must have a Measure ID beginning with "CM"

Discussion Topic:

This 1st phase custom measures will have the prefix of "CM".

There is a future potential to add more measure types and prefixes, such as NMEC

CREATE A NEW

Measure

Basic

MEASURE TYPE*

Custom

NAME*

Chiller System Upgrade

MEASURE ID*

CMAP001

USE CATEGORY*

AP - Appliance or Plug Load

EFFECTIVE DATE*

2022-12-17

END DATE

Save

Cancel