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Description:	Gary Cullen, Director, Navigant	
Filer:	Raquel Kravitz	
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CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION DSM POTENTIAL STUDIES

PRESENTATION TO JOINT AGENCY IEPR WORKSHOP

JULY 11, 2016



CMUA POTENTIAL STUDIES OVERVIEW

- General Scope:
 - 37 CMUA Member Utilities participating
 - Each utility is being provided their own unique Potential Study
 - Utilities range in size from LADWP/SMUD to many small utilities such as Banning and Biggs
 - Each utility wants to ensure that the goals identified by their Potential Study are appropriate for their service territory.
 - The measures and programs that will be part of each utility's Potentials Plan will likely vary significantly
 - However, each utility will be provided nearly the same program/measure options to consider.
 - Could includes savings from Early Retirement, Codes and Standards, Behavior, and Financing programs

CMUA POTENTIAL STUDIES OVERVIEW

- General Scope:
 - Each utility's E3 submittals to the CEC are used to identify current utility programs, measure offerings, incentive level, and administrative cost.
 - Each utility model is calibrated at the program and end-use level based on these E3 submittals
 - Other measures not currently included in each utility's portfolio will be identified as "New" and can be considered for inclusion in future portfolios.
- Recent history of the POU Potential studies:
 - Studies completed in 2009 and 2012
 - Most of the utilities currently participating also participated in these earlier studies
 - These earlier studies were also conducted by Navigant/Summit Blue



DATA SOURCES AND GRANULARITY

- The model utilizes a bottom-up approach
- Over 200 technologies characterized by sector, building type, and climate zone are included
- Sales data by building type and industrial classification rely on each utilities submittals of QFER data reported to the CEC
- Measure impact and cost data rely initially on the same dataset as used for the CPUC Potential Study but modified as needed to reflect assumptions included in the recently completed CMUA Technical Reference Manual (TRM)
- All measure level data based on an annual savings basis. Each measure is classified into an end-use by sector category that could be used to develop hourly impacts using some existing CPUC hourly load shapes by end-use category. (this is an option beyond the current scope)
- Demand savings are based on DEER definition of the peak hours

ELRAM estimates four levels of energy efficiency potential





- The Baseline results for each utility will be a continuation of their current program offerings
- Scenarios will be developed for each utility, based on utility input, that could include:
 - Changing program design to consider early retirement and/or financing
 - ✓ Additional measures beyond the current portfolio
 - ✓ Addition of behavioral programs (if the utility does not already offer) for the residential, commercial, and industrial sectors.
 - ✓ Adjusting incentive levels and administrative expenditures

Scenario Option Switches

New Measures Beyond Current Portfolio				
Sector	Include? (Y/N)	Starting Year		
Residential	Y	2018		
Commercial	Y	2018		
Industrial	Y	2018		
Agriculture	Y	2018		
Streetlighting	Y	2018		

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Scenario Option Switches

In What Year Should Early Retirement Programs Begin				
Sector	Include? (Y/N)	Starting Year		
Residential	Y	2018		
Commercial	Y	2018		
Industrial	Y	2018		
Agriculture	Y	2018		
Streetlighting	Y	2018		

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Scenario Option Switches

Behavioral Pro (These settings can be overridd Program worksh	Starting Year	% Participating	
Residential Type #1 (% of sales affected)	Enhanced Billing	2018	40.0%
Residential Type #2 (% of sales affected)	Direct Feedback & Automation	2022	10.0%
Commercial (% of sales affected)	Building Operator Certification	2018	10.0%
Industrial (% of sales affected)	Strategic Energy Management	2020	10.0%



Scenario Option Switches

Scenario Incentive Multiplier	Starting Year	Incentive Multiplier
Value of 1.0 = base incentive. Value of 2.0 = double base incentive up to limit (<i>maximum incentive is limited by model to</i> 100% of incremental cost)	2019	1.00
Scenario Administrative Cost Multiplier (Base = 1.0)	Starting Year	Admin Cost Multiplier
The administrative cost multiplier is used as a proxy to simulate changes in promotional/education efforts	2018	1.00



CONTACT

GARY CULLEN

DIRECTOR 360-828-4008 GARY.CULLEN@NAVIGANT.COM

navigant.com

