

# SED – Utility Safety and Risk Assessment Branch- (URAB)



R.18-04-018
MHP Conversion Pilot Program

March 20-21, 2019



### Safety and Emergency Information

- In the event of an emergency, please proceed calmly out the exits.
- The Evacuation Location is the courtyard between the War Memorial Building and Opera House.
- It is located on the other side of City Hall. Exit the building at Van Ness and McAlister streets and walk past City Hall.



#### **Practical Information**

#### WiFi Access:

**SSID:** cpucguest

**User:** guest

Password: will provide

Restrooms: In the Lobby

#### **Call in information:**

Phone line: 1-877-820-7831
 Participant code: 989872

#### WebEx Day 1:

Meeting Number: 710 021 114

Password: R1804018

#### WebEx Day 2:

Meeting Number: 710 591 600

Password: R1804018



### Agenda-Day 1

- 1:00-1:15 Staff Introduction & Emergency Procedures
- 1:15-1:45 Annual Report Highlights-Fred Hanes, SED
- 1:45-2:15 Project Cost Review-Eric Borden, TURN
- 2:15-2:30 Cost Containment-Niki Kjensli, PAO
- 2:30-2:45 Break
- 2:45-3:15 MHP Electrification Richard McCann, WMA
- 3:15-3:45 MHP Electrification SDG&E/SoCalGas
- 3:45-4:30 Decarbonization-Hal Kane, Energy Division



### Agenda-Day 2

• 9:30-9:45 Agenda Review

9:45-10:30 Cost Containment/Recovery-SCG/SDGE

• 10:30-10:45 Annual Report Template Update-SED

• 10:45-11:30 Open Discussion

• 11:30-1:00 Lunch Break

• 1:00-2:00 Discussion of Other Scoping Memo Topics:

- Coordination with Communication/Broadband Providers and Munis
- Education and Outreach (Disadvantaged Communities)
- 2:00-4:00 Discussion as needed



### **Annual Report Highlights**

- Completed Conversions
- Demographics
  - Disadvantaged Community, CARE/FERA
- Costs per Space
  - To The Meter, Beyond The Meter
- Rate Impacts



### **Conversion Results**

	PG&E	SCE	SoCalGas	SDG&E	SWG	Bear Valley	Liberty Utils	Pacific- Corp	TOTALS
Converted Spaces	3804	9050	7410	2859	473	250	65	52	23963
2015 Spaces*	105318 <b>3.6%</b>	106768 <b>8.5%</b>	129231 <b>5.7%</b>	34597 <b>8.3%</b>	3308 <b>14.3%</b>	608 <b>41.1%</b>	633 <b>10.3%</b>	507 <b>10.3%</b>	380970 <b>6.3%</b>

\*From 2018 Joint Staff Proposal



# **Demographic Results**

	PG&E	SCE	SCG	SDGE	SWG	Bear Valley	Liberty Utilities	Pacific Corp	TOTALS
CARE/FERA								_	
customers	1821	4831	2089	1629	153	98	23	26	10670
<b>Medical Baseline</b>									
Customers	182	113	12	149	5	16	1	1	479
Disadvantaged									
<b>Community Spaces</b>	1611	4142	4644	0	187	0	0	0	10584
<b>Rural Community</b>									
Spaces	102	0	0	0	31	250	0	52	435
<b>Urban Community</b>									
Spaces	4527	9050	8529	3122	463	0	65	0	25756
Total Rural + Urban	4629	9050	8529	3122	494	250	65	52	26191
Gas (elec ) Register									
Spaces	3804	9050	7410	2859	473	250	65	52	23963

CARE= California Alternate Rates for Energy. FERA= Family Electric Rate Assistance



### Disadvantaged Communities

- Per SB 535: 9.35 Million Disadvantaged\*
- CA Total Population: 40 Million people
- Proportion of Disadvantaged:
  - 24% of Californians



### Disadvantaged Communities

DAC Converted: 10,584 Spaces

Total MHP Converted: 23,984 Spaces

- DAC result is 44% of Spaces Converted
- Compares to 24% of all Californians



### **CARE/FERA Customers**

- 10,669 CARE/FERA Customers
- 23,984 Residential Spaces Converted
- Conversion Results:
  - 44.4% of Conversions were CARE/FERA



### **Program Costs**

- Annual Report data through 2018
- Add all years to get Total Costs
- Use register spaces + common area count
  - Gas spaces unless Elec. Utility.
- To date, only the larger program data incl.



### **PROGRAM COSTS**

UTILITY	TOTAL COSTS 2015-2018	SPACES*	COST/SPACE TOTAL	COST/SPACE TTM	COST/SPACE BTM	CONVERSION TYPE
PG&E	\$173,574,334	4629	\$37,497	\$29,995	\$7,541	GAS + ELEC.
SCE	\$140,581,096	9,448	\$14,879	\$9,199	\$5,613	ELEC.
SCG	\$81,505,893	8,392	\$9,712	\$6,987	\$2,725	GAS
SDG&E	\$91,870,259	3,000	\$30,623	\$22,866	\$7,757	GAS + ELEC.
SWG	\$5,695,824	494	\$11,530	\$8,413	\$3,117	GAS

<sup>\*</sup>Number of Gas Register plus Common Spaces converted; Electric plus Common spaces for Elec-only. PG&E Space Count corrected to 4629 based on clarification at Mar 20 Workshop

#### NOTES:

- 1) PG&E cost for dual conversion at \$37,497 exceeds SDG&E at \$30,623, and SCE+SCG at \$24,591.
- 2) Beyond the meter costs are more comparable: \$8294 for PG&E; \$7,757 for SDG&E; \$8,338 for SCE+SCG; The largest cost difference is in the To the Meter costs.



### **TTM COSTS**

#### Cost/Space

UTILITY	SPACES	CIVIL/ TRENCH	LABOR	MATL'S/ STRUCT.	DESIGN/ CONST. MGMT	Project Mgt. Office	Overhead (other non- labor)	Other Materials
PG&E-GAS	4209	\$4,117	\$6,198	\$955	\$3,380	\$1,370	\$997	\$250
PG&E-ELEC	3914	\$4,399	\$6,679	\$1,360	-	-	-	-
SCE-ELEC	9448	\$4,757	\$1,175	\$454	\$38	-	\$495	\$483
SCG-GAS	8392	\$3,002	\$1,110	\$398	\$1,484	-	\$205	\$93
SDG&E-GAS	3000	\$7,590	Incl*	\$384	\$3,591	\$1,441	\$2,668	\$382
SDG&E-ELEC	3220	\$4,875	Incl*	\$440	-	-	-	-
SWG	494	\$6,652	\$761	\$307	\$342	\$0	\$23	\$0

<sup>\*</sup>Labor included in Civil/Trenching



### TTM COST FOCUS

#### Major Categories, Cost/Space

UTILITY	SPACES	CIVIL/ TRENCHING	LABOR	MATL'S/ STRUCTURES	DESIGN/ CONST. MGMT
PG&E-GAS	4209	\$4,117	\$6,198	\$955	\$3,718
PG&E-ELEC	3914	\$4,399	\$6,679	\$1,360	-
SCE-ELEC	9448	\$4,757	\$1,175	\$454	\$38
SCG-GAS	8392	\$3,002	\$1,110	\$398	\$1,484
SDG&E-GAS	3000	\$7,590	Incl*	\$384	\$3,591
SDG&E-ELEC	3220	\$4,875	Incl*	\$440	-
SWG	494	\$6,652	\$761	\$307	\$342
*Labor included in	Civil/Trenchin	ng.			



# **Rate Impacts**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Electric Rates</b>											
PG&E	0.00%	0.02%	0.01%	0.05%	0.16%	0.18%	0.18%	0.17%	0.16%	0.16%	0.15%
SDG&E		0.01%	0.01%	0.03%	0.11%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%
SCE	0.01%	0.03%	0.08%	0.14%	-	-	-	-	-	-	-
PacificCorp				0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
Liberty Utilities				0.01%	0.01%	0.03%	0.03%	0.03%	0.04%	0.04%	0.04%
Bear Valley				1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%
Gas Rates-Core											
PG&E	0.01%	0.08%	0.07%	0.17%	0.63%	0.71%	0.69%	0.66%	0.63%	0.61%	0.58%
SCG		0.04%	0.03%	0.24%	0.64%	0.61%	0.59%	0.57%	0.55%	0.53%	0.50%
SDGE		0.11%	0.13%	0.29%	1.66%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
SWG					0.54%	1.06%	1.59%	0.00%	0.00%	0.00%	0.00%



### **Discussion Items**

### 2.3. Coordination with Non-Energy Service Providers and Municipal Utilities

- a. What efforts and/or program requirements could bring other utility services into the MHP during conversion project (e.g. broadband)?
- b. What efforts and/or program requirements could facilitate municipal utility participation during MHP conversion projects for those MHPs that receive municipal utility service?

#### 2.4. Disadvantaged Communities

a. What efforts and/or program requirements enable MHPs in the state's most disadvantaged communities have the opportunity to participate in the program?



### **New Template Process**

- Technical Working Group
  - Met in Fall 2018
  - Reviewed Scoping Memo issues
  - Achieved Consensus on a new Template
  - New Template used for 2018 Reports



### **Template Changes**

- Add Demographic Data
  - CARE/FERA; DAC; Rural/Urban, etc.
- Space Conversions aligned with Recorded Costs
- Revenue and Rate Impact Data
- Standardized Template
- All program years included



# **2017 Report Examples**

PG&E			
1	To The Meter (TTM) Contractor Costs		
2	Civil/ Trenching	\$	8,803,001
3	Electric System		
4	Labor	\$	1,383,265
5	Material/ Structure	\$	649,274
6	Gas System		
7	Labor	\$	1,205,983
8	Material/ Structure	\$	423,348
10	Sub-Total TTM Contractor Costs	\$	12,464,871
11			
	TTM Costs for Utility Crews supporting Program <sup>4</sup>		
	Labor	\$	182,818
	Materials Purchasing, warehouse	\$	106,958
15		\$	289,776
16			
	Other TTM Non-Labor Costs		
	Property Taxes	\$	-
	AFUDC	\$	240,354
20		\$	240,354
21	Sub-Total TTM Costs	\$	12,995,002
22			
23			
	Beyond The Meter (BTM) Contractor Costs		
	Civil/ Trenching	N/	/A
	Electric System		
27	Labor	\$	1,673,185
28		\$	398,140
	Gas System		
30		\$	2,148,304
31	Material/ Structure	\$	337,459

SCE	Total Cost for MHPs Completed
To The Meter (TTM)	
Civil Work/Trenching	\$ 6,863,933.53
Electric System	
Labor	\$ 1,964,103.06
Materials/Structures	\$ 785,790.55
(inclusive of easements)	
Other (Additional Labor)	\$ 734,721.68
Contingency	
Sub-Total TTM	\$ 10,348,548.82
Beyond The Meter (BTM)	
Civil Work/Trenching	\$ 904,741.96
Electric System	
Labor	\$ 3,637,160.80
Materials/Structures	\$ 3,368,864.67
Other (City Permit Fees)	\$ 320,759.66
Contingency	
Sub-Total BTM	\$ 8,231,527.09
<b>Total Spaces Converted</b>	
Electric	1,622
Average Cost / Space	
Electric	



# **Current Template** 2018 PGE Excerpt

Cost Information						
To The Meter - Capital Costs						
Construction Direct Costs						
Civil/Trenching	To the Meter Construction costs for					
Electric	civil related activities	\$	-	\$ 296,898.68	\$ 3,351,806.15	\$ 13,570,250.24
Gas	Civil related detivities	\$	-	\$ 655,265.45	\$ 3,462,823.85	\$ 13,208,651.91
Gas System						
Labor	Cost for installation of distribution Gas assets, pre-inspection testing, decommissioning of legacy system (Gas Design cost was previously incorporated here)	\$	-	\$ 1,392,314.75	\$ 5,288,448.91	\$ 19,408,335.63
Material / Structures	Pipes, fittings and other necessary materials required for gas construction	\$	-	\$ 483,901.17	\$ 864,088.89	\$ 2,670,895.42
Electric System						
Labor	Cost for installation of distribution Electric assets, pre-inspection testing, decommissioning of legacy system (Electric Design cost was previously incorporated here)	s	-	\$ 753,867.37	\$ 5,370,860.01	\$ 20,017,794.27
Material / Structures	Cables, conduits, poles, transformers and other necessary materials for electrical construction	\$	-	\$ 427,405.26	\$ 1,808,431.90	\$ 5,516,482.14



# **Current Template 2018 SCE Excerpt**

	Descriptor	4	OTO	<b>Z</b> 016	2017	ZU18
onstruction Direct Costs						
Civil/Trenching						
Electric	To the Meter Construction costs for civil related activities			\$ 7,305,136	\$ 21,078,838	\$ 16,564,670
Gas		\$	-	\$ -	\$ -	\$ -
Gas System		\$	-	\$ -	\$ -	\$ -
Labor	Cost for installation of distribution Gas assets, pre-inspection testing, decommissioning of legacy system (Gas Design cost was previously incorporated here)	\$	-	\$ -	\$ -	\$ -
Material / Structures	Pipes, fittings and other necessary materials required for gas construction	\$	-	\$ -	\$ -	\$ -
Electric System						
Labor	Cost for installation of distribution Electric assets, pre-inspection testing, decommissioning of legacy system (Electric Design			\$ 1,990,644	\$ 5,331,343	\$ 3,777,688



# **New Data-Demographics**

2018 MOBILEHO	OME ANNUAL REPORT		Per-year costs	; not cumulative	
	Descriptor	2015	2016	2017	2018
Program Participation					
CARE/FERA enrollment	Number of individuals enrolled in CARE/FERA after the conversion	0	1098	2219	1514
Medical Baseline	Number of individuals enrolled in Medical Baseline after the conversion	0	25	61	27
Disadvantaged Community	Number of converted spaces within geographic zones defined by SB 535 map.	0	1185	1707	1250
Rural Community**	Number of converted spaces within rural community	0	0	0	0
Urban Community**	Number of converted spaces within urban community	0	1516	4584	2950
Leak Survey (Optional)	Number of Leaks identified during preconstruction activity (if known)	n/a	n/a	n/a	n/a



### **New Data-Rate Impacts**

Annual Report Template*	1		Per-year costs;	not cumulative		l							
	Descriptor	2015	2016	2017	2018	[							
Rate Impact and Revenue Requiremen	it					l							
Rate Impact		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	1
Sas													1
Average Rate w/o MMBA recovery - non CARE	Average Non-CARE Residential Rate w/o MHPBA recovery - Core (S/therm)	\$ 1.496570	\$ 1.471460	\$ 1.596710	\$ 1.516020	\$ 1.602300	\$ 1.602300	\$ 1.602300	\$ 1.602300	\$ 1.602300	\$ 1.602300	\$ 1.602300	
Average Rate w/ MMBA recovery - non CARE	Average Non-CARE Residential Rate w/ MHPBA recovery - Core (S/therm)	\$ 1.496660	\$ 1.472710	\$ 1.597840	\$ 1.518670	\$ 1.612440	\$ 1.613640	\$ 1.613290	\$ 1.612850	\$ 1.612430	\$ 1.612010	\$ 1.611590	
Rate Change - non Care	Non-CARE Residential Rate Change - Core (\$/therm)	\$ 0.000090	\$ 0.001250	\$ 0.001130	\$ 0.002650	\$ 0.010140	\$ 0.011340	\$ 0.010990	\$ 0.010550	\$ 0.010130	\$ 0.009710	\$ 0.009290	
% Rate Change - non Care	% Non-CARE Residential Rate Change - Core	0.01%	0.08%	0.07%	0.17%	0.63%	0.71%	0.69%	0.66%	0.63%	0.61%	0.58%	1
Average Rate w/o MMBA recovery - Non- Core		NA	NA	NA	NA	NA	NA	NA.	NA	NA	NA	NA	1
Average Rate w/ MMBA recovery - Non- Core		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rate Change - Non-Core		NA.	NA.	NA.	NA.	NA	NA	NA	NA	NA.	NA	NA	1
% Rate Change - Non-Core		NA	NA NA	NA.	NA.	NA	NA	NA	NA	NA	NA	NA	]
lectric													1
Average Rate w/o MMBA recovery - Total System		\$ 0.171752	\$ 0.177724	\$ 0.187776	\$ 0.195360	\$ 0.195360	\$ 0.195360	\$ 0.195360	\$ 0.195360	\$ 0.195360	\$ 0.195360	\$ 0.195360	
Average Rate w/ MMBA recovery - Total System		\$ 0.171755					\$ 0.195719					\$ 0.195654	
Rate Change - Total System		\$ 0.000003	\$ 0.000038	\$ 0.000017		\$ 0.000316	\$ 0.000360	\$ 0.000348	\$ 0.000335	\$ 0.000321	\$ 0.000308	\$ 0.000294	4
% Rate Change - Total System		0.00%	0.02%	0.01%	0.05%	0.16%	0.18%	0.18%	0.17%	0.16%	0.16%	0.15%	_
Revenue Requirement		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
as Revenue Requirement-TTM		\$ 3,008,794			\$ 12,653,985	\$ 18,226,604	\$ 19,562,465	\$ 19,192,637					
lectric Revenue Requirement-TTM		\$ 2,948,668			\$ 13,209,572	\$ 18,896,451	\$ 20,134,466	\$ 19,711,265	\$ 19,084,547				
as Revenue Requirement-BTM		\$ -	\$ 147,971			\$ 8,150,581	\$ 8,840,665	\$ 8,336,032					\$
lectric Revenue Requirement-BTM		s -	\$ 134,950	\$ 3,384,210	\$ 4,250,109	\$ 7,559,478	\$ 8,356,323	\$ 7,878,868	5 7,414,811	\$ 6,950,399	\$ 6,485,997	\$ 6,021,595	5

<sup>\*</sup>An appendix can be provided to define each



#### **Thank You**

#### **For Additional Information:**

#### www.cpuc.ca.gov/RiskAssessment

