

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of Pacific Gas and Electric  
Company for Authority to Increase Revenue  
Requirements to Recover the Costs to Deploy  
an Advanced Metering Infrastructure

A.05-06-028  
(Filed June 16, 2005)

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**MONTHLY SMARTMETER™ STEERING COMMITTEE  
UPDATE REPORT OF PACIFIC GAS AND ELECTRIC  
COMPANY FOR DECEMBER 2013 IN ACCORDANCE  
WITH THE MAY 4, 2010 ASSIGNED COMMISSIONER'S  
RULING**

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Dated: February 13, 2013

Attorneys for  
PACIFIC GAS AND ELECTRIC COMPANY

Pacific Gas and Electric Company (PG&E) submits the attached December 2013 “SmartMeter™ Steering Committee Update Report” on the deployment and budget status of its Advanced Metering Infrastructure (AMI) Project in accordance with the May 4, 2010 “Assigned Commissioner’s Ruling Reopening Proceeding, Requiring That Reports Be Filed in This Proceeding, and Ordering Pacific Gas and Electric Company to Release Prior and Future Reports to the Public,” Ordering Paragraph 3. Underlying Decision 06-07-027, Ordering Paragraph 4, requires that this monthly summary report provide the following information: 1) project status; 2) progress against baseline schedule including equipment installation and key milestones; 3) actual project spending vs. forecast; and 4) risk-based contingency allowance draw-down status. The attached report complies with that decision and the Commissioner’s Ruling.

Respectfully Submitted,

CHRISTOPHER J. WARNER

By:                     /s/ Christopher J. Warner                      
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PG&E  
**SmartMeter™**

**SmartMeter™**  
**Steering Committee Update – December 2013**

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- ▶ **Monthly Updates**
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  - ▶ **Deployment Status Update**
  - ▶ **Schedule Update**
  - ▶ **Deployment Update**
  - ▶ **Budget Status – Expenditures by Workstream**
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	EAC	Funded Budget	ITD	Scope	Schedule	Resources	Issues	Risks
IT Releases: November 30, 2013								
Release 1								
Release 2								
Release 3								

### Challenges

### Actions/Status

Overall

- IT completed all work expected by the SmartMeter plan.
- HAN enablement and Peak Time Rebate roadmaps have been aligned with their ongoing regulatory proceedings.

Overall

- All in-scope functionality completed as of 3/30/12.
- HAN enablement in implementation and aligned with Demand Response Programs.
- Peak Time Rebate roadmap awaiting Commission approval.

**COMPLETE**

	EAC	2013 Forecast (2013 EOY / CPI)	Scope	Schedule	Resources	Issues	Risks
Deployment: November 30, 2013							
Endpoints (2013 YTD)							
Gas Network (2013 YTD)							
Electric Network (2013 YTD)							

### Challenges

### Actions/Status

#### Endpoints

- Mass deployment is effectively complete; minor fill-in remaining, subject to higher percentages of UTC and customer-refusals.

#### Electric Network

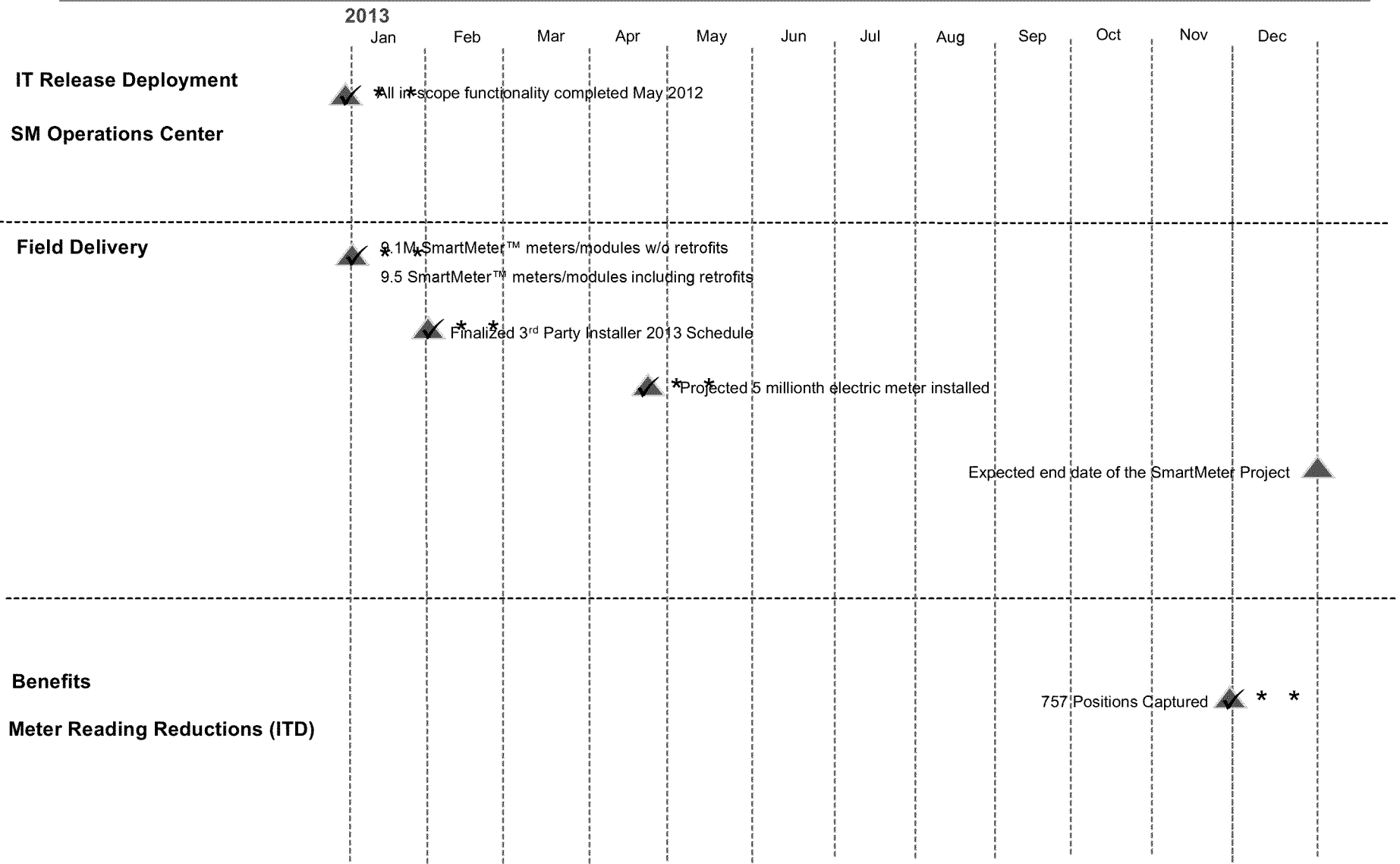
- Initial design scope of electric network is complete.
- Continuing to monitor whether additional electric network is necessary due to SmartMeter™ opt-outs.

#### Endpoints

- Extended 3rd party provider deployment schedule to end of year.

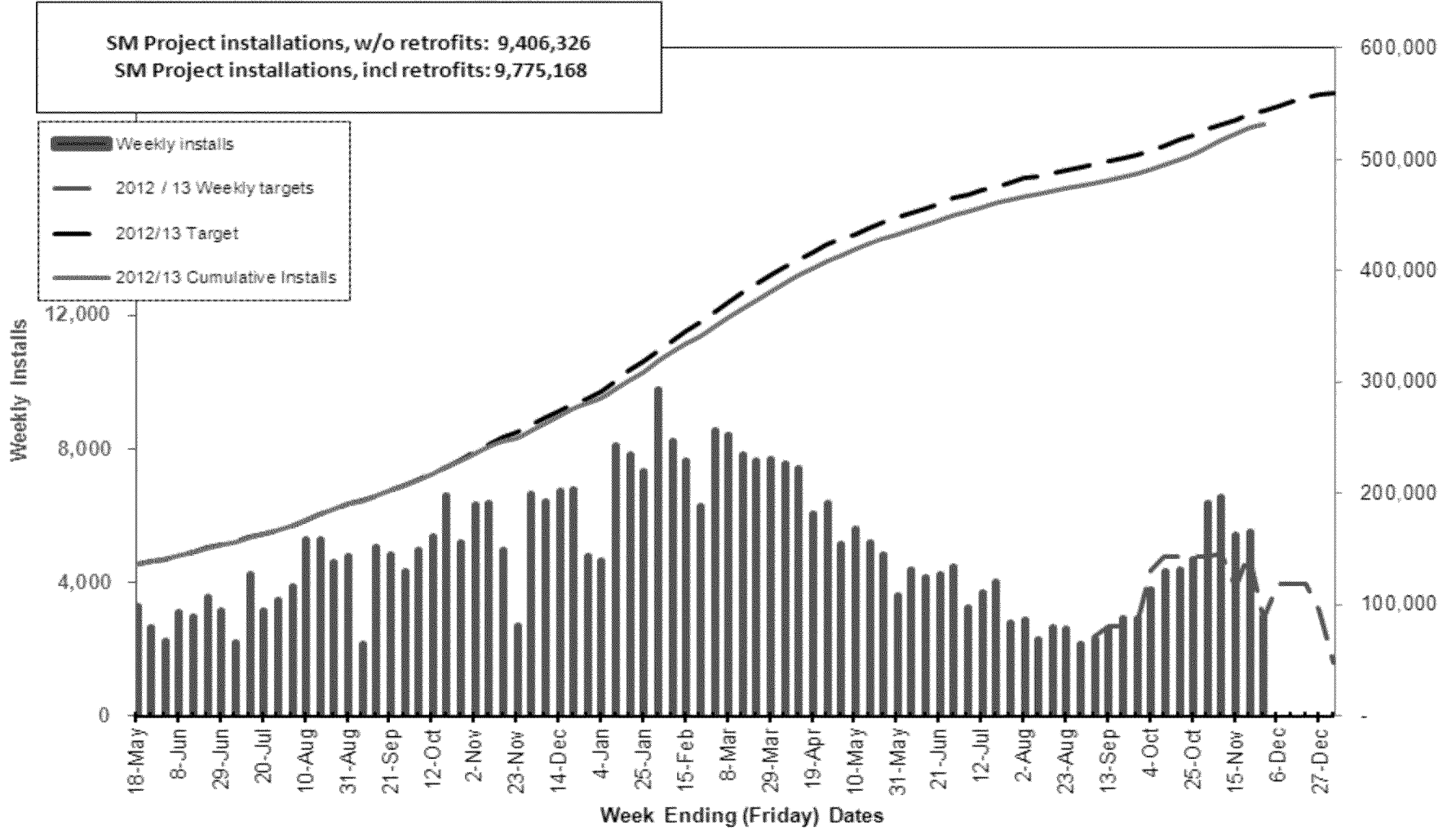
#### Electric Network

- Tracking the impact of opt-outs on network.
- Working with technology supplier and internal stakeholders to leverage alternative solutions to address network coverage in 'hard-to-reach' areas.
- Adding additional resources to ensure transition of this work to operations.



- △ Baseline Milestone
- ✓ Milestone Met
- △ Forecasted Milestone (delay)
- △ Forecasted Milestone (early)
- △ Milestone TBD
- △ Approved Milestone (delay)

2012 / 13 Install Rate - Weekly Meter Totals





# 2013 Budget Status – Expenditures by Workstream

#	Work Stream	Current Month - November			Year to Date - November			2013 End-of-Year Forecast*	Inception to Date Actual	#
		Budget*	Actual	Variance	Budget*	Actual	Variance			
<b>A. Capital (000s)</b>										
1	BUSINESS OPERATIONS (PMO)	(\$8)	\$10	(\$19)	\$535	\$537	(\$2)	\$578	\$51,114	1
2	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,310	2
3	SM FIELD DELIVERY	\$2,402	\$3,679	(\$1,278)	\$25,821	\$33,608	(\$7,787)	\$39,332	\$473,332	3
4	SM SOLUTIONS	\$87	\$71	\$16	\$9,248	(\$4,084)	\$13,332	(\$4,017)	\$980,182	4
5	IT	\$277	(\$39)	\$316	\$2,176	\$485	\$1,692	\$761	\$375,892	5
6	<b>Capital Total:</b>	<b>\$2,757</b>	<b>\$3,722</b>	<b>(\$965)</b>	<b>\$37,780</b>	<b>\$30,546</b>	<b>\$7,234</b>	<b>\$36,653</b>	<b>\$1,891,830</b>	6
<b>B. Expense (000s)</b>										
7	BUSINESS OPERATIONS (PMO)	\$3	\$40	(\$37)	\$88	\$86	\$2	\$84	\$26,958	7
8	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,594	8
9	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	(\$71)	\$14,947	9
10	CUSTOMER	\$1,333	\$352	\$981	\$7,412	\$5,476	\$1,936	\$5,780	\$113,950	10
11	SM FIELD DELIVERY	\$36	\$693	(\$657)	\$393	\$1,905	(\$1,511)	\$2,355	\$23,646	11
12	SM SOLUTIONS	\$1	\$0	\$1	\$0	\$6	(\$5)	\$6	\$67,970	12
13	IT	\$112	\$168	(\$56)	\$1,583	\$3,126	(\$1,543)	\$3,219	\$137,804	13
14	<b>Expense Total:</b>	<b>\$1,484</b>	<b>\$1,253</b>	<b>\$232</b>	<b>\$9,477</b>	<b>\$10,528</b>	<b>(\$1,051)</b>	<b>\$11,373</b>	<b>\$441,869</b>	14
<b>C. Total: Capital + Expense (000s)</b>										
15	BUSINESS OPERATIONS (PMO)	(\$5)	\$50	(\$56)	\$623	\$624	(\$0)	\$1,423	\$78,073	15
16	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67,904	16
17	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	(\$71)	\$14,947	17
18	CUSTOMER	\$1,333	\$352	\$981	\$7,412	\$5,476	\$1,936	\$7,121	\$113,950	18
19	SM FIELD DELIVERY	\$2,437	\$4,372	(\$1,935)	\$26,214	\$35,513	(\$9,299)	\$26,673	\$496,978	19
20	SM SOLUTIONS	\$87	\$71	\$16	\$9,248	(\$4,079)	\$13,327	\$10,207	\$1,048,151	20
21	IT	\$388	\$129	\$259	\$3,759	\$3,611	\$148	\$5,376	\$513,696	21
22	<b>Capital + Expense Total:</b>	<b>\$4,241</b>	<b>\$4,974</b>	<b>(\$734)</b>	<b>\$47,257</b>	<b>\$41,074</b>	<b>\$6,183</b>	<b>\$48,026</b>	<b>\$2,333,699</b>	22

23 \* End of year forecast amounts have been updated to reflect adjustments made after initial budget was submitted.

23

### Year-to-Date Variance Explanations:

Favorable YTD capital variance (\$7.2M) primarily due to higher than anticipated installation costs (#3), which have been more than offset by lower than planned electric meter purchases (#4). Unfavorable YTD expense variance (\$1.1M) primarily due to overruns in Field Delivery (#11) and IT (#13).

### SmartMeter Balancing Account (SBA) Credits \*

#	(\$ in thousands)	Actual															Forecast	ITD Actual	#			
		2007	2008	2009	2010	2011	2012	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct			Nov	Dec	
1	Activated Meter Benefits:	\$ 111	\$ 4,705	\$ 26,055	\$ 56,313	\$ 25,269	\$ 32,392	\$ 2,988	\$ 3,030	\$ 3,092	\$ 3,136	\$ 3,235	\$ 3,284	\$ 3,318	\$ 3,349	\$ 3,373	\$ 3,432	\$ 3,480	\$ 3,526	\$ 180,562	1	
2	Mainframe License Benefits:	\$ 1,250	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,250	2
3	Total:	\$ 1,361	\$ 9,705	\$ 31,055	\$ 61,313	\$ 25,269	\$ 32,392	\$ 2,988	\$ 3,030	\$ 3,092	\$ 3,136	\$ 3,235	\$ 3,284	\$ 3,318	\$ 3,349	\$ 3,373	\$ 3,432	\$ 3,480	\$ 3,526	\$ 196,812	3	
4	2013 Cumulative Actual + Forecast:							\$ 2,988	\$ 6,019	\$ 9,111	\$ 12,246	\$ 15,481	\$ 18,765	\$ 22,083	\$ 25,431	\$ 28,805	\$ 32,237	\$ 35,717	\$ 39,243		4	

### 2013 Benefits, Budget vs. Actual and Forecast \*\*

#	(\$ in thousands)	2013												#									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
5	<b>Budgeted Benefits:</b>																						
5	Monthly	\$ 3,255	\$ 3,384	\$ 3,519	\$ 3,659	\$ 3,805	\$ 3,956	\$ 4,114	\$ 4,278	\$ 4,448	\$ 4,625	\$ 4,810	\$ 5,001										5
6	Cumulative	\$ 3,255	\$ 6,639	\$ 10,158	\$ 13,818	\$ 17,622	\$ 21,579	\$ 25,693	\$ 29,971	\$ 34,419	\$ 39,045	\$ 43,854	\$ 48,856										6
7	<b>Actual / Current Forecast:</b>																						
7	Monthly	\$ 3,794	\$ 4,045	\$ 4,500	\$ 4,048	\$ 4,604	\$ 3,982	\$ 4,343	\$ 4,341	\$ 4,694	\$ 4,837	\$ 4,342	\$ 5,001										7
8	Cumulative	\$ 3,794	\$ 7,839	\$ 12,339	\$ 16,387	\$ 20,991	\$ 24,973	\$ 29,316	\$ 33,657	\$ 38,351	\$ 43,188	\$ 47,530	\$ 52,531										8
9	YTD Variance	\$ 539	\$ 1,200	\$ 2,181	\$ 2,569	\$ 3,368	\$ 3,394	\$ 3,623	\$ 3,686	\$ 3,932	\$ 4,143	\$ 3,676	\$ 3,676										9

\* 2011 and 2012 SmartMeter Balancing Account (SBA) actuals and forecasts consistent with the GRC Settlement of \$0.92 electric / \$0.02 gas activated meter-month savings and the discontinuation of mainframe license savings already captured in the 2008 base year results

\*\* 2013 benefits, budget versus actual and forecast, do not include meter reading costs and benefits which are being recorded in the Meter Reading Memorandum Account beginning on January 1, 2011.

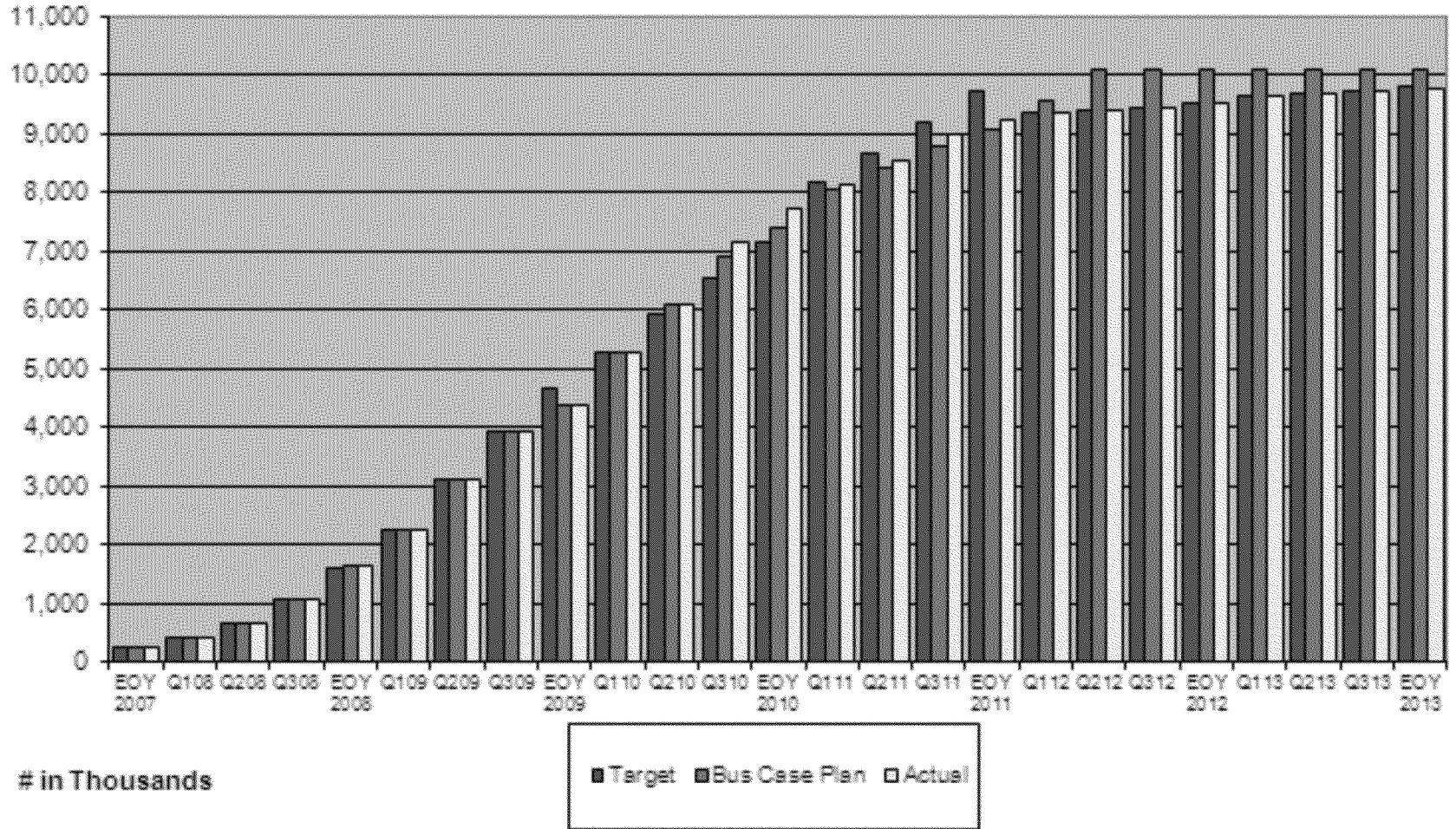
Target Resolution Date	Issue	Impact	Status Summary
Ongoing	Installation attempts affected by access refusals and desire for customer choice program.	Increased costs, increase in unable to complete (UTC) back-log, customer change management.	Communicating with customers about the SmartMeter Opt-Out Program to facilitate customer elections. Customer Choice Phase 2 resolution timing is uncertain.

#	Created On	I	P	Score	Prev. Score	Risk	Impact	Status Summary	Assoc. Issue
1	9/30/2011	4	3	12	16	<p>Increased forecast deployment costs and external resources requirement</p> <p><i>Key drivers:</i> Delays in deployment, resource availability and installation complexity</p>	<p>Increased installation costs and contract resources required to complete remaining installations effectively and timely</p>	<p>Installation vendor continuing work through end of year based on extended contract.</p>	
2	9/1/2011	5	3	15	15	<p>Network deployment and performance in 'hard-to-reach' areas can not be completed successfully.</p> <p><i>Key drivers:</i> Network performance in 'hard-to-reach' areas and availability of alternate solutions.</p>	<p>Deployment delays, resource planning and increased costs.</p>	<p>Vendor preparing prototype solution for PG&amp;E's evaluation.</p>	

\* With the anticipated closure of the SmartMeter Project at year-end, outstanding risks will be shifted to operational organizations.

Metric	Key Performance Indicator	Oct '13 - Month Results			Nov '13 - Month Results			YTD			2013 Year End Forecast			Variance Analysis
		Actual	Target	Var	Actual	Target	Var	Actual	Target	Var	Current	Target	Var	
P1	SM Earnings Contribution (\$M estimated)	\$ 4.98	\$ 4.75	4.8%	\$ 4.94	\$ 4.73	4.4%	\$ 55.86	\$ 53.39	4.6%	\$ 60.58	\$ 58.11	4.3%	
P2	OSHA Recordable Rate (YTD)	-	0.51		-	0.51					-	0.51		
P3	MVI Recordable Rate (YTD)	-	0.10		-	0.10					-	0.98		
C1	Customers enrolled in SmartRate (net)	120,142	<i>(track only)</i>		118,754	<i>(track only)</i>								
C2	# of CPUC escalated Customer Complaints	1	<i>(track only)</i>		1	<i>(track only)</i>		15	<i>(track only)</i>					
C10	Customer Complaint Rate (escalated to CPUC)	0.000%	<i>(track only)</i>		0.000%	<i>(track only)</i>		0.006%	<i>(track only)</i>					
D1	Meters/Modules Installed - Electric & Gas	21,802	10,701	103.7%	25,603	10,701	139.3%	267,631	218,816	22.3%	274,867	278,054	-1.1%	See Slide 4 for details
D5	UTC Rate	15.0%	25.0%	66.7%	22.1%	25.0%	13.1%	34.0%	25.0%	-26.5%	25.0%	25.0%	0.0%	See Slide 4 for details
D7	UTCs open beyond 90 days	136,755	<i>(track only)</i>		135,193	<i>(track only)</i>								
D8	CPI - Endpoints	\$132.97	\$123.96	-6.8%	\$221.62	\$123.96	-44.1%	\$155.32	\$123.77	-20.3%	\$148.96	\$114.37	-23.2%	
D14	Total Weeks of Inventory on Hand - Electric Meters	6	6	100%	5	6	83%							Any remaining inventory at project completion will be transferred to PG&E Operations.
D15	Total Weeks of Inventory on Hand - Gas Modules	6	6	100%	2	6	33%							
O4	Transition Aging - Average Days	307	<i>(track only)</i>		322	<i>(track only)</i>		246	<i>(track only)</i>		209	<i>(track only)</i>		
O5	SM Billing accuracy % (SA)	99.82%	99.88%	-0.1%	99.83%	99.88%	-0.1%	99.82%	99.87%	-0.1%	99.88%	99.88%	0.0%	
O6	SM Billing timeliness % (SA)	99.98%	99.81%	0.2%	99.95%	99.81%	0.1%	99.97%	99.80%	0.2%	99.79%	99.79%	0.0%	
O7	SM % Bills not estimated (BSEGs)	99.94%	99.90%	0.0%	99.94%	99.90%	0.0%	99.93%	99.90%	0.0%	99.90%	99.90%	0.0%	
B2	Meters Activated - Electric & Gas (end of month)	100,004	<i>(track only)</i>		72,190	<i>(track only)</i>		856,684	<i>(track only)</i>		1,044,500	<i>(track only)</i>		

## Combined Gas and Electric Plan, Target, and Actuals (Cumulative)



<b>SmartMeter™ Contingency Reconciliation</b>	<b><u>\$'000s</u></b>
Business Case Approved Contingency	177,753
Total Approved Decision Requests Approved and Adopted by Steering Committee	177,753
Approved Project Decision Requests, by Approval Date	
2007	106,329
2008	32,240
2009	20,313
2010	18,871
	<u>177,753</u>

SmartMeter Acronyms			
Acronym	Definition	Acronym	Definition
ABS	Advanced Billing System	MARA	My Account Re-Architecture
AFCI	Arc Fault Circuit Interrupter	MDMS	Meter Data Management System
AMI	Advanced Metering Infrastructure	MLPP	Meter Location Problem Project
AP	Access Point	MPSC	Meter Power Status Check
Apps	Applications	MV-90	Multi Vendor - 90
ASM	Automated Storage Management	MVI	Motor Vehicle Incidents
BDG	Business Development Group	NEMS	Net Energy Metering Services
CC&B	Customer Care and Billing	NIC	Network Interface Card
CEDSA	Centralized Electric Distribution System Assets	OIR	Order Instituting Rulemaking
CoE	Center of Excellence	OIS	Outage Information System
CPI	Cost Per Install	OMT	Outage Management Tools
CPUC	California Public Utilities Commission	Ops	Operations
DART	Distribution Asset Reconciliation Tool	OSHA	Occupational Safety and Health Administration
DC	Data Center	PCR	Project Change Request
DCU	Data Collector Unit	PCT	Programmable Communicating Thermostat
DR	Disaster Recovery	PDP	Peak Day Pricing
ORA	Office of Ratepayer Advocates	PDR	Project Decision Request
DSCI	Distribution Control Systems, Inc.	PE	Performance Engineering Company
EA	Ecologic Analytics	PMO	Project Management Office
EAC	Estimate at Completion	PTR	Peak Time Rebate
ED	Energy Division	QBR	Quarterly Business Review
EMR	Electric Meter Reader	RCDC2	Remote Disconnect Phase 2
EMT	Electric Meter Technician	Rev.	Revision
EOM	End-of-Month	RF	Radio Frequency
EON	Emergency Outage Notification	RFA	Request For Authorization
EOY	End Of Year	RV	Restoration Validation
FA	Functional Area	SBA	SmartMeter Balancing Accounts
FD	Field Delivery	SM	SmartMeter
GE	General Electric Co.	SM Apps	SmartMeter Applications
GFI	Ground Fault Interrupter	SMU	SmartMeter Upgrade
HAN	Home Area Network	SR	Service Request
HC	Head Count	TBD	To Be Determined
IHD	In-Home Devices	TechArch	Technical Architecture
ISTS	Information Systems and Technology Services	TIC	Technology Innovation Center
IT	Information Technology	TLM	Transformer Load Management
ITD	Inception To Date	TOU	Time Of Use
IVR	Interactive Voice Response	UIQ	Utility IQ - SSN software
KC	Knowledge Center	UTC	Unable To Complete (meter installation)
KVAR	Kilo-Volts-Amps Reactive	YTD	Year-To-Date
LOB	Line of Business		