

**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)

U 39 E

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

CHRISTOPHER J. WARNER

Pacific Gas and Electric Company
77 Beale Street
San Francisco, CA 94105
Telephone: (415) 973-6695
Facsimile: (415) 973-0516
E-Mail: CJW5@pge.com

Dated: February 13, 2013

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

Pacific Gas and Electric Company (PG&E) submits the attached November 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
CHRISTOPHER J. WARNER

Pacific Gas and Electric Company
77 Beale Street
San Francisco, CA 94105
Telephone: (415) 973-6695
Facsimile: (415) 973-0516
E-Mail: CJW5@pge.com

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

Dated: February 13, 2013



PG&E
SmartMeter™

SmartMeter™
Steering Committee Update – November 2013

©2011 Pacific Gas and Electric Company. All rights reserved.

- ▶ **Monthly Updates**
 - ▶ **Release Status Update**
 - ▶ **Deployment Status Update**
 - ▶ **Schedule Update**
 - ▶ **Deployment Update**
 - ▶ **Budget Status – Expenditures by Workstream**
 - ▶ **Budget Status – Benefits**
 - ▶ **Issues / Risks Summary**
 - ▶ **Program Metrics**
- ▶ **Appendix**
 - ▶ **Project Deployment Plan Progress**
 - ▶ **Contingency Reconciliation**
 - ▶ **SmartMeter[™] Acronyms**

	EAC	Funded Budget	ITD	Scope	Schedule	Resources	Issues	Risks
IT Releases: October 31, 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: October 31, 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

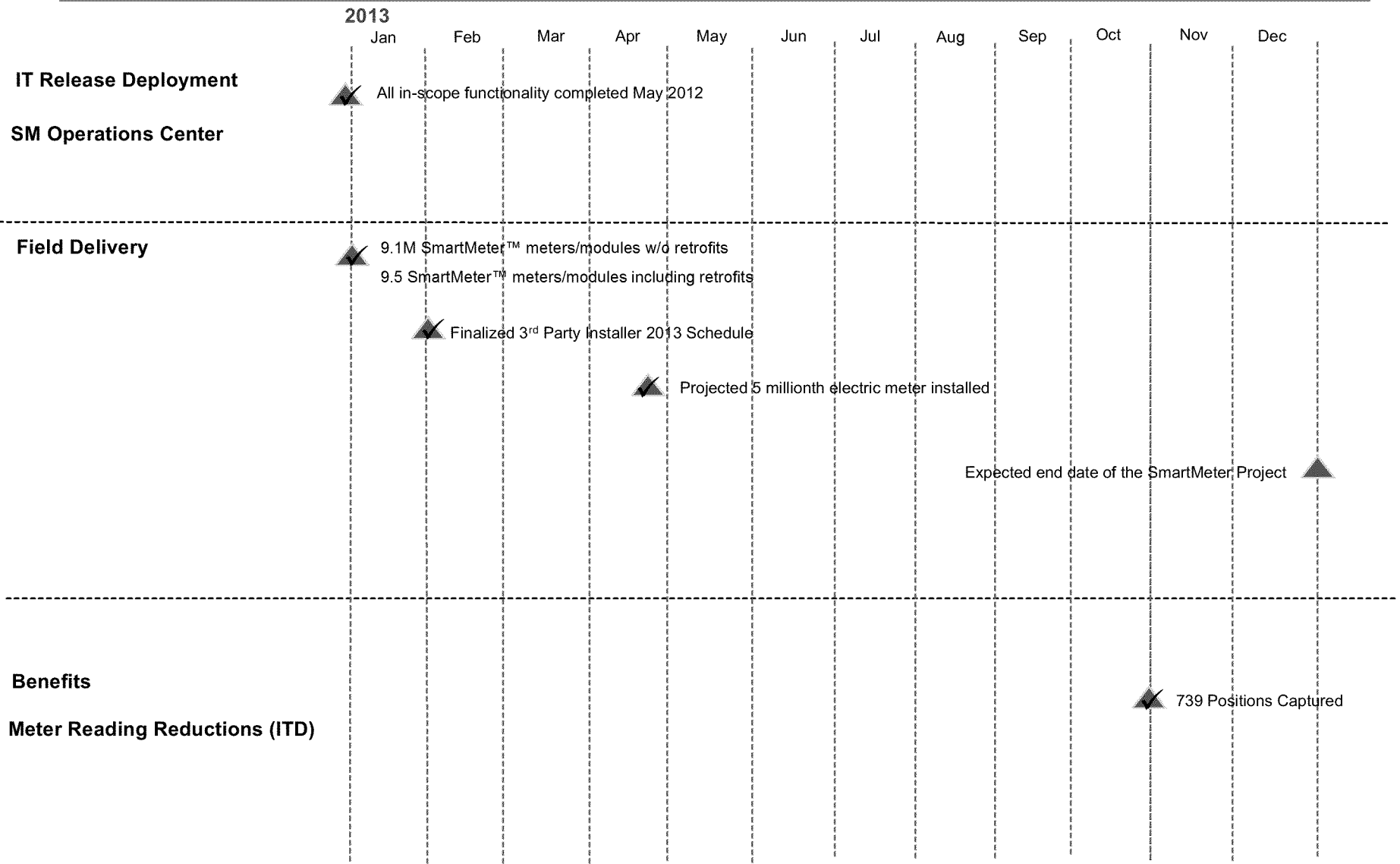
- Initial design scope of electric network is complete.
- Continuing to monitor whether additional electric network is necessary due to SmartMeter™ opt-outs.

Endpoints

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

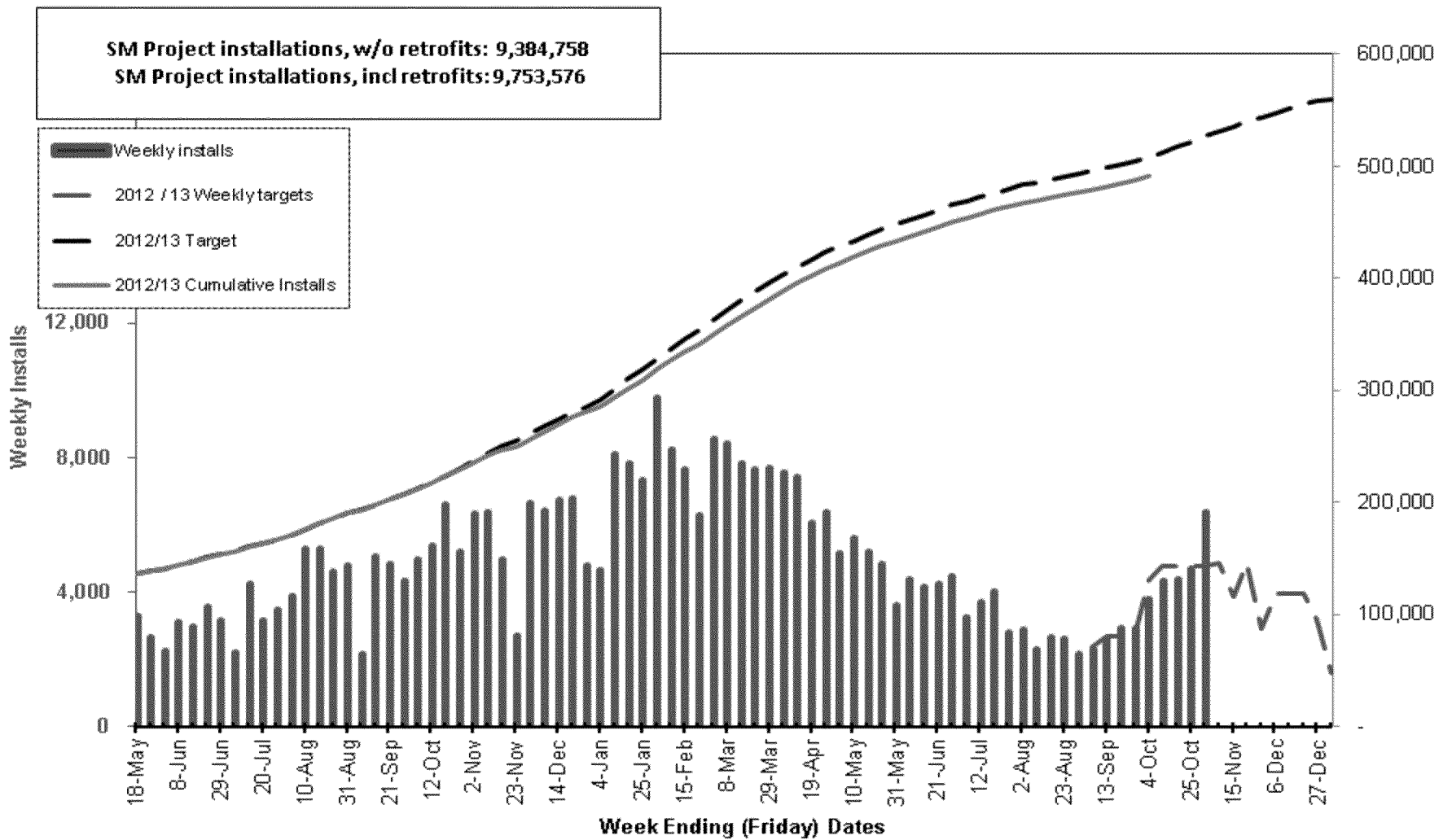
Electric Network

- 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.



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

As of October 31, 2013
 2012 / 13 Install Rate - Weekly Meter Totals



2013 Budget Status – Expenditures by Workstream

#	Work Stream	Current Month - October			Year to Date - October			2013 End-of-Year Forecast	Inception to Date Actual	#
		Budget	Actual	Variance	Budget	Actual	Variance			
A. Capital (000s)										
1	BUSINESS OPERATIONS (PMO)	\$3	(\$0)	\$3	\$544	\$527	\$17	\$1,236	\$51,104	1
2	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,310	2
3	SM FIELD DELIVERY	\$2,279	\$2,415	(\$135)	\$23,419	\$29,929	(\$6,510)	\$24,821	\$469,653	3
4	SM SOLUTIONS	\$76	\$100	(\$24)	\$9,161	(\$4,155)	\$13,316	\$10,207	\$980,111	4
5	IT	\$289	(\$1,879)	\$2,168	\$1,900	\$524	\$1,376	\$3,137	\$375,931	5
6	Capital Total:	\$2,647	\$635	\$2,011	\$35,023	\$26,824	\$8,199	\$39,401	\$1,888,108	6
B. Expense (000s)										
7	BUSINESS OPERATIONS (PMO)	(\$9)	\$20	(\$29)	\$85	\$46	\$39	\$187	\$26,918	7
8	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,594	8
9	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	\$0	\$14,947	9
10	CUSTOMER	\$738	\$1,631	(\$894)	\$6,079	\$5,124	\$955	\$7,121	\$113,598	10
11	SM FIELD DELIVERY	\$36	\$423	(\$387)	\$358	\$1,212	(\$854)	\$1,852	\$22,953	11
12	SM SOLUTIONS	(\$0)	(\$8)	\$7	(\$0)	\$6	(\$6)	\$0	\$67,970	12
13	IT	\$124	\$2,294	(\$2,170)	\$1,533	\$3,009	(\$1,477)	\$2,239	\$137,687	13
14	Expense Total:	\$889	\$4,360	(\$3,472)	\$8,055	\$9,327	(\$1,272)	\$11,399	\$440,668	14
C. Total: Capital + Expense (000s)										
15	BUSINESS OPERATIONS (PMO)	(\$7)	\$20	(\$26)	\$629	\$573	\$56	\$1,423	\$78,022	15
16	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67,904	16
17	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	\$0	\$14,947	17
18	CUSTOMER	\$738	\$1,631	(\$894)	\$6,079	\$5,124	\$955	\$7,121	\$113,598	18
19	SM FIELD DELIVERY	\$2,315	\$2,837	(\$522)	\$23,777	\$31,141	(\$7,364)	\$26,673	\$492,606	19
20	SM SOLUTIONS	\$75	\$92	(\$17)	\$9,161	(\$4,150)	\$13,310	\$10,207	\$1,048,080	20
21	IT	\$414	\$415	(\$2)	\$3,432	\$3,533	(\$101)	\$5,376	\$513,618	21
22	Capital + Expense Total:	\$3,536	\$4,996	(\$1,460)	\$43,078	\$36,151	\$6,927	\$50,800	\$2,328,776	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 (\$8.2M) 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 (\$1.3M) primarily due to overruns in Field Delivery (#11) and IT (#13).

SmartMeter Balancing Account (SBA) Credits *

		Actual														Remaining Forecast						
(\$ in thousands)		2007	2008	2009	2010	2011	2012	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ITD Actual	#	
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	\$ 3,514	\$ 3,526	\$ 177,082	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	\$ 3,514	\$ 3,526	\$ 193,332	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	\$ 35,751	\$ 39,277		4	

2013 Benefits, Budget vs. Actual and Forecast **

(\$ in thousands)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Budgeted Benefits:														
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
Actual / Current Forecast:														
7	Monthly	\$ 3,794	\$ 4,045	\$ 4,500	\$ 4,048	\$ 4,604	\$ 3,982	\$ 4,343	\$ 4,341	\$ 4,694	\$ 4,837	\$ 4,810	\$ 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	\$ 47,998	\$ 52,999	8
9	YTD Variance	\$ 539	\$ 1,200	\$ 2,181	\$ 2,569	\$ 3,368	\$ 3,394	\$ 3,623	\$ 3,686	\$ 3,932	\$ 4,143	\$ 4,143	\$ 4,143	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.

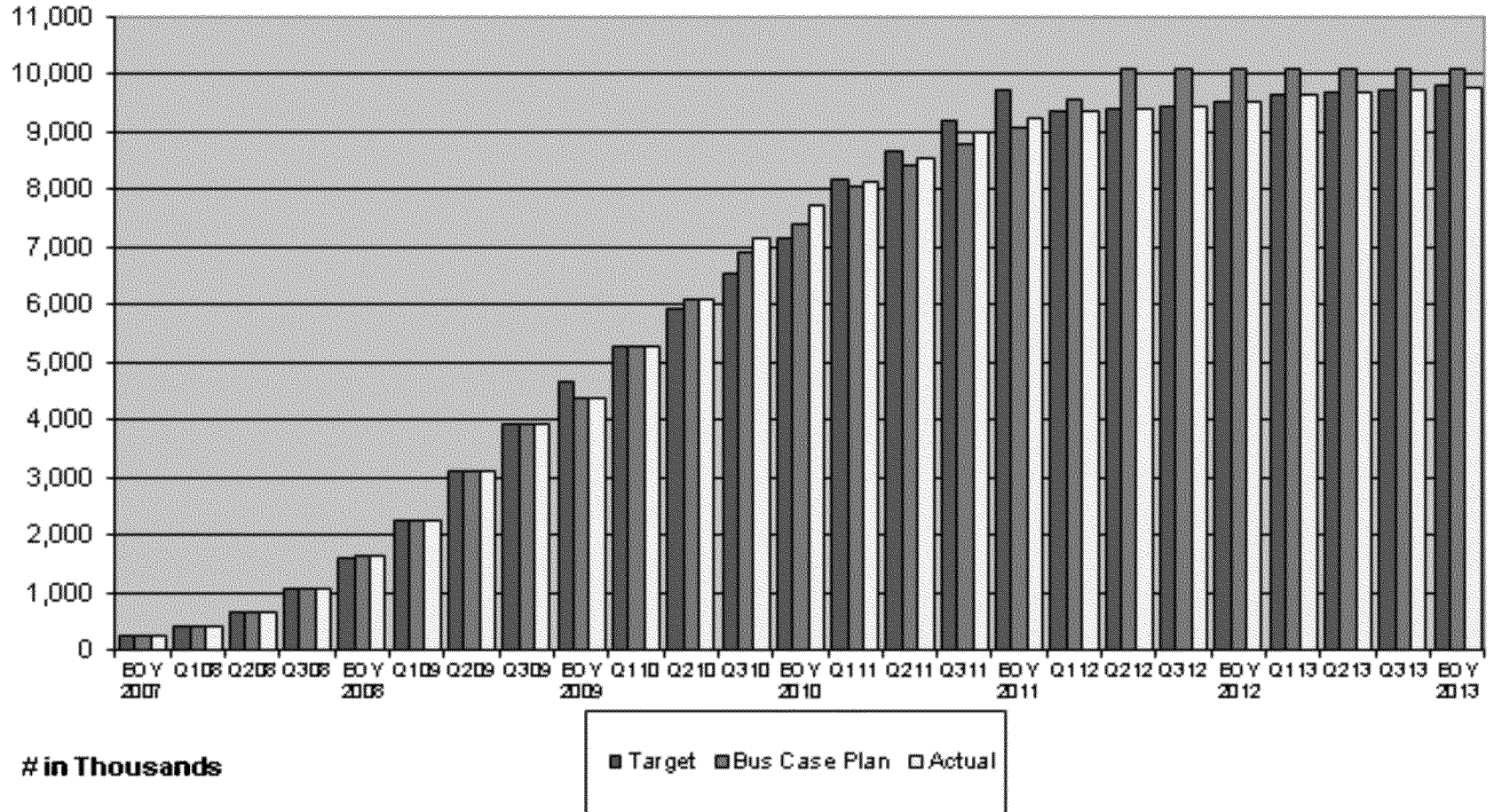
Target Resolution Date	Issue	Impact	Status Summary
Ongoing	Installation attempts affected by access refusals and desire for customer choice program.	Increased costs, increase in unable to complete (UTC) back-log, customer change management.	Communicating with customers about the SmartMeter Opt-Out Program 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&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	Sep '13 - Month Results			Oct '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)	\$ 5.00	\$ 4.78	4.6%	\$ 4.98	\$ 4.75	4.8%	\$ 50.92	\$ 48.66	4.6%	\$ 60.14	\$ 58.11	3.5%	
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)	119,749 (track only)			120,142 (track only)									
C2	# of CPUC escalated Customer Complaints	3 (track only)			1 (track only)			14 (track only)						
C10	Customer Complaint Rate (escalated to CPUC)	0.025% (track only)			0.000% (track only)			0.006% (track only)						
D1	Meters/Modules Installed - Electric & Gas	11,802	10,701	10.3%	21,802	10,701	103.7%	242,028	218,816	10.6%	274,867	278,054	-1.1%	See Slide 4 for details
D5	UTC Rate	32.7%	25.0%	-23.5%	15.0%	25.0%	66.7%	34.7%	25.0%	-28.0%	25.0%	25.0%	0.0%	See Slide 4 for details
D7	UTCs open beyond 90 days	137,824 (track only)			136,755 (track only)									
D8	CPI - Endpoints	\$131.00	\$123.96	-5.4%	\$132.97	\$123.96	-6.8%	\$148.49	\$123.77	-16.6%	\$148.96	\$114.37	-23.2%	
D14	Total Weeks of Inventory on Hand - Electric Meters	7	6	117%	6	6	100%							Any remaining inventory at project completion will be transferred to PG&E Operations.
D15	Total Weeks of Inventory on Hand - Gas Modules	8	6	133%	6	6	100%							
O4	Transition Aging - Average Days	329 (track only)			307 (track only)			239 (track only)			209 (track only)			
O5	SM Billing accuracy % (SA)	99.84%	99.88%	0.0%	99.82%	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%	99.99%	99.81%	0.2%	99.97%	99.80%	0.2%	99.79%	99.79%	0.0%	
O7	SM % Bills not estimated (BSEGs)	99.93%	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)	43,973 (track only)			100,004 (track only)			784,494 (track only)			1,044,500 (track only)			

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



SmartMeter™ Contingency Reconciliation	<u>\$'000s</u>
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		