

PACIFIC GAS AND ELECTRIC COMPANY
SmartMeter™ CPUC Staff Inquiry
Data Response

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|------------------------|----------------------|-------------------|-----------------|
| PG&E Data Request No.: | ED_005 | | |
| PG&E File Name: | SM CSI_DR_ED_005-Q01 | | |
| Request Date: | April 13, 2011 | Requester DR No.: | 4/13/11 |
| Date Sent: | April 27, 2011 | Requesting Party: | Energy Division |
| PG&E Witness: | N/A | Requester: | Aloke Gupta |

QUESTION 1

Please provide the following data in connection with your smart meter deployment. If the requested data item does not exist or difficult to develop, please provide some reasonable substitute.

- a. How many smart meters have been deployed and operational for billing purposes to date, for each major customer class or group (for example: large C&I, medium, SMB, residential, CARE, or some alternative customer breakdown if the suggested example is not available).
- b. How many total smart meters will eventually be deployed for each customer class noted above.
- c. When will each of the above customer class or group be fully deployed and operational for billing purposes (month/year estimate)?
- d. Is the end-date provided in #3 above the same as originally planned in your respective AMI business case that were approved by CPUC (assuming the business case was broken down by customer class). If not, provide the original target date for each customer class.

ANSWER 1

Generally, PG&E plans for and monitors its SmartMeter™ deployment by geographical area (Meter Reading Office), rather than by customer class. PG&E employs this approach to ensure a robust mesh network as deployment progresses in particular geographic areas. Thus, PG&E's actual deployment schedules show street routes and locations without differentiation for customer class, and PG&E stocks deployment trucks with meters that will serve all customers - e.g., large Commercial, Industrial and Agricultural customers, as well as Residential customers.

Nevertheless, PG&E retains customer-specific data in its Customer Care and Billing (CC&B) system on the SmartMeters™ that it has deployed, and bases its response to part (a) of this Data Request on that recorded information.

While PG&E does not plan for meter deployment by customer class, it uses a high-level customer class distinction for meter procurement purposes (i.e., Commercial/Industrial, Agricultural, and Residential). PG&E bases its response to part (b) of this Data Request on that procurement information.

- a. The number of SmartMeters™ PG&E has deployed and has transitioned for billing purposes as of March 31, 2011, is shown by major customer class in the two tables below.

| SmartMeters™ Deployed as of March 31, 2011 By Customer Class | | | |
|---|------------------------|-------------------|------------------|
| Customer Class | Electric Meters | Gas Meters | Total |
| E Commercial Agricultural Power | 26,874 | | 26,874 |
| E Interdepartmental Sales | 561 | | 561 |
| E Medium Commercial & Industrial | 34,315 | | 34,315 |
| E Public Street & Highway Lighting | 8,674 | | 8,674 |
| E Residential Individually Metered | 3,686,650 | | 3,686,650 |
| E Residential Master Metered | 11,375 | | 11,375 |
| E Small Commercial & Industrial | 271,551 | | 271,551 |
| G Commercial Sales | | 184,993 | 184,993 |
| G Interdepartmental Sales | | 164 | 164 |
| G Residential Individually Metered | | 3,532,540 | 3,532,540 |
| G Residential Master Metered | | 42,506 | 42,506 |
| GRAND TOTAL | 4,040,000 | 3,760,602 | 7,800,602 |

| Estimated SmartMeters™ Transitioned to Billing as of March 31, 2011 By Customer Class | | | |
|--|------------------------|-------------------|------------------|
| Customer Class | Electric Meters | Gas Meters | Total |
| E Commercial Agricultural Power | 21,007 | | 21,007 |
| E Interdepartmental Sales | 357 | | 357 |
| E Medium Commercial & Industrial | 29,570 | | 29,570 |
| E Public Street & Highway Lighting | 7,812 | | 7,812 |
| E Residential Individually Metered | 3,333,289 | | 3,333,289 |
| E Residential Master Metered | 8,830 | | 8,830 |
| E Small Commercial & Industrial | 228,009 | | 228,009 |
| G Commercial Sales | | 165,135 | 165,135 |
| G Interdepartmental Sales | | 141 | 141 |
| G Residential Individually Metered | | 3,313,427 | 3,313,427 |
| G Residential Master Metered | | 38,500 | 38,500 |
| GRAND TOTAL | 3,628,874 | 3,517,203 | 7,146,077 |

- b. The total estimated number of SmartMeters™ that PG&E expects to deploy by the project's end is shown by major customer group in the table below. Note that the total includes 371,000 retrofit meters.

| Total Estimated SmartMeters™ To Be Deployed By Major Customer Group | | | |
|--|------------------------|-------------------|-------------------|
| Customer Class | Electric Meters | Gas Meters | Total |
| Commercial, Industrial, and Agricultural | 626,979 | 252,580 | 879,559 |
| Residential | 5,004,021 | 4,196,420 | 9,200,441 |
| GRAND TOTAL | 5,631,000 | 4,449,000 | 10,080,000 |

- c. PG&E seeks to complete its mass-deployment of SmartMeters™ by mid-2012, but recognizes that numerous challenges threaten that target date. These challenges include various unanticipated obstacles, such as PG&E's meter-choice filing, the significant number of customers seeking to delay their deployments or whose residences are inaccessible, and municipal challenges to SmartMeter™ installation, and PG&E therefore may not be able to fully deploy all of its SmartMeters™ until later than mid-2012. PG&E intends to transition all of its meters to wireless SmartMeter™-billing in the three months after deployment.

As explained above, because PG&E deploys by geographical area rather than by customer class, PG&E expects to complete mass-deployment and the transition to SmartMeter™-billing for all customer classes roughly concurrently.

- d. The deployment end-date included in PG&E's original Advanced Meter Infrastructure Application 05-06-028 was December 2010. (See Exhibit (PG&E-1), page 2-11, Table 2-3, Line 5). In PG&E's SmartMeter™ Program Upgrade Application 07-12-009, PG&E revised that deployment end-date to "the middle of 2012." (See Exhibit (PG&E-2), page 2-1, Line 14). The SmartMeter™ deployment end-date provided in the response to part (c) above is consistent with the end-date provided in PG&E's last update in Application 07-12-009. PG&E's application did not provide an estimated deployment plan broken down by customer class.