



Portland General Electric Company
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February 26, 2010

Via Email and US Mail

Vikie Bailey-Goggins
Administrator
550 Capitol Street, N.E., Ste 215
Salem, OR 97301-2551

RE: UE-189 AMI Project Quarterly Status Update – 2009-Q4

OPUC Order No. 08-245 adopted the AMI Conditions filed with the Joint Party stipulation. The provisions of the Joint Party stipulation require that PGE file quarterly status reports throughout the deployment period with the Public Utility Commission of Oregon, detailing:

- Progress under the implementation plans, including any significant changes in timing, budget, or scope;
- Number of meters installed; and
- Actual costs by category.

Pursuant to the Order, PGE provides the attached Quarterly Status Report for the quarter ending December 31, 2009.

If you have any questions or require further information, please call Alex Tooman at (503) 464-7623. Please direct all formal correspondence and requests to the following email address: pge.opuc.filings@pgn.com.

Sincerely,

Jay Tinker
Project Manager, Regulatory Policy and Affairs

cc: UE 189 Service List
John Sullivan
Alex Tooman
Margo Bryant



Quarterly Report to the OPUC

For quarter ending December 31, 2009

Advanced Metering Infrastructure (AMI) Project

Summary: This project carries out activities to deploy a two-way, fixed-network AMI system throughout PGE's service territory. Scope includes project planning, IT readiness, vendor selection & contracting, business process development, system acceptance testing, deployment of 835,000 meters and related radio-frequency (RF) communications equipment, and evaluation of certain customer & systems-related benefits.

Project Start Date	Project Completion Date	AMI Meters Deployed to Date	% of Customer Repairs Needed	Meters Read over Network for Billing	Meter Reading Routes Rolled over to Network	JMR Routes Remaining with NNG
August 2005	December 2010	449,361	0.12%	206,727	561	0

Project Cost Summary * In Thousands	AMI Tariff Budget*	Actual Cost This Quarter*	Actual Cost to Date*	Remaining Cost to Complete*	Over / (Under) Budget*
Capital (Tariff) Costs					
Meters Jobs	\$ 107,719	\$25,603	\$70,721	\$31,662	\$(5,336)
Network Jobs	5,507	469	4,997	0	(681)
IT Equip. & License Jobs	14,161	3,654	12,447	6,001	4,463
Vehicles	0	0	99	45	144
Capital Sub-Total (Unloaded)	127,387	29,725	88,263	37,708	(1,410)
Capital Loadings	4,777	896	4,579	1,567	1,365
Total Capital (Loaded)	\$132,164	\$30,622	\$92,843	\$39,275	\$(46)
Total O&M (Loaded)	\$12,000	\$681	\$7,854	\$4,003	(143)
Total Capital and O&M (Loaded Costs)	\$144,164	\$31,303	\$100,697	\$ 43,278	\$(189)

Cost and Schedule Factors – Current Quarter: Meter job costs continue to run under budget due to negotiated savings in meter orders and cost control while the IT equipment and license jobs continue to be over budget primarily due to additional cost in development efforts in support of business process changes to derive project benefits. Project completion date corrected to December 2010 to reflect all project activities, not just those associated with meter deployment.

Project Milestones	Due Date	Status
▪ Complete System Acceptance Testing	04/10/2009	SAT testing was completed on 4/10/09. Documentation was completed on 6/23/09.
▪ Begin Full Meter Deployment	4/13/2009	Full meter deployment was initiated on 4/13/09 per revised schedule.
▪ Initiate Route Rollovers to Network Reads	8/21/2009	First meter reading routes were switched over from manual to network reads on 9/17/2009.
▪ Complete RF Network Installation	12/31/2009	44 of 44 tower gateway basestations (TGBs) have been constructed and commissioned.
▪ Complete Full Meter Deployment	8/31/2010	Both contract meter installer (CMI) and PGE Meter Services are ahead of schedule on meter deployment.

Project Job Status	Due Date	Actual Capital Cost This Quarter*	Actual Capital Cost to Date*	Remaining Capital Cost to Complete*
Meter Installation – SAT (Closed)	12/2008	2	7,177	0
Meter Installation – Full Deployment	09/2010	25,529	63,393	31,527
Meter Base Repairs	09/2010	72	151	135
Meters – Total		25,603	70,721	31,662
Tower Site Deployment	12/2009	469	4,997	0
Towers – Total		469	4,997	0

Quarterly Report to the OPUC

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Project Job Status	Due Date	Actual Capital Cost This Quarter*	Actual Capital Cost to Date*	Remaining Capital Cost to Complete*
Project Office	12/2010	1	572	25
Automated Meter Exchange (Closed)	06/2008	(7)	921	0
IT Infrastructure Support	09/2010	1,506	4,739	0
Connects	12/2010	6	61	65
On Cycle Billing (Phase I Closed)	06/2008	4	123	153
Host System Installation – SAT (Closed)	04/2009	0	583	0
MDC – General AMI Requirements (Closed)	01/2010	0	0	0
MDC – CS SAT Testing (Closed)	04/2009	0	0	0
Lost Revenue Protection (LRP)	06/2010	43	103	0
Routine Meter Exchange	12/2009	7	55	52
IT AMI Software	12/2010	1,877	3,854	4,359
Information-Driven Energy Savings (IDES)	12/2010	156	324	227
Customer-Selected Due Date (CSDD)	11/2010	7	7	120
Host System Installation – Full Deployment	12/2010	62	440	172
Interval Data Storage & Usage (IDU) (Closed)	11/2009	0	416	0
Work Orders for Business Process Jobs	04/2010	(8)	249	0
Contingencies	12/2010	0	0	828
IT Equipment & Licenses – Total		3,654	12,447	6,001
Vehicles	06/2009	0	99	45
Vehicles – Total		0	99	45
* Unloaded, rounded to nearest thousand				

AMI Implementation: Completed Activities – Q4 2009

Previously Planned Activities for Q4

- Completed mass meter deployment in Beaverton and Tualatin meter read office areas (MROs)
- Began meter deployment in Portland and Woodburn MROs
- Refined internal software development roadmap and schedule to ensure capture of economic benefits
- Constructed/commissioned final 10 tower gateway basestations (TGBs) to complete wireless network deployment
- Completed build out and testing of MDC/AIX server upgrade
- Tested patch 5 to version 1.7.1 of host system software but did not implement; testing patch 7 for implementation in Q1
- Continued development and testing of the Energy Assistance functionality (Connects)
- Continued development and testing of the Payment Redistribution functionalities (Connects)
- Began development and testing of remote connect functionality (Connects)
- Delayed Interval Data Usage (IDU) work in favor of focusing on MDC upgrade and developing the LRP requirements
- Began redesign of energy recovery business processes and development of software to identify leads from tamper flags and usage on disconnected accounts (LRP project)

Additional Activities Undertaken in Q4

- Completed 385 qualifying repairs to date on customer equipment under Commission-approved customer repairs tariff; repairs thus far total \$103,708 at an average cost of \$269 per repair
- Began testing Payment Extensions functionality (Connects)
- Delayed CIS Work Orders to re-focus develop efforts on business processes that produce economic benefits



Quarterly Report to the OPUC

For quarter ending December 31, 2009

AMI Implementation: Planned Activities – Q1 2010

- Begin mass meter deployment in Oregon City and Gresham MROs; continue work in Portland and Woodburn MROs
- Complete mass meter deployment in Salem MRO
- Complete backhaul installation at last two (2) tower locations (Brightwood Sub and Willamina 3rd party site)
- Complete upgrade of MDC/AIX
- Implement patch 7 to version 1.7.1 of Sensus host system software
- Implement Energy Assistance functionality (Connects)
- Complete testing Payment Extensions functionality (Connects)
- Continue development and testing of the Payment Redistribution functionalities (Connects)
- Select vendor and beginning coding the automated phone call (Connects)
- Conduct focus groups to identify communication methods/messaging for customers with remote connect meters (Connects)
- Begin development of software to enroll customers (Customer Selected Due Date)
- Complete end-to-end testing and regression testing for CIS Work Orders for Meter Services
- Begin development of software to remove duplicate edits in metering and billing systems to eliminate redundancy in work processes (On Cycle Billing)
- Begin development of software to pull a read and timestamp in metering and billing systems as needed for Move In and Move Out (On Cycle Billing)
- Issue first release of software for Lost Revenue Protection (LRP)
- Complete infrastructure storage, server and database configuration in preparation for migrating to new servers for Interval Data Usage (IDU)
(Note: The IDU project work was consolidated into the IT Infrastructure, LRP, and IDES jobs and the project profile closed.)
- Begin migration of production ISIS (required for energy recovery LRP application) and IDU databases to new servers

Customer & System Benefits (Conditions) : Completed Activities – Q4 2009

- Developed requirements for Aclara's EnergyPrism web application covering 10 functional areas for Information Driven Energy Savings (IDES) project
- Completed JMR dissolution with return of all 562 meter reading routes formerly read by NNG on behalf of PGE
- Launched firm load reduction (Advice No. 08-22) from large customers greater than 1MW of demand
- Participated in the National Institute of Standards and Training (NIST) Interoperability home-to-grid working group supporting NIST's responsibilities under the Energy Independence and Security Act (EISA) of 2007. PGE's focus has been to identify the lack of an appliance communication interface as a gap in the appliance market transformation initiative. In addition, EPRI has launched a project, with encouragement from PGE and others, to define a standard communications interface at the appliance. Participating utilities include PGE, Southern Company, Florida Power & Light, American Electric Power and TVA

Customer & System Benefits (Conditions): Planned Activities – Q1 2010

- Complete review and signoff of requirements work done for IDES project in Q4
- Perform initial technical architectural and work review based on requirements for IDES gathered in Q4
- PGE is a Participating Member in the Smart Grid Interoperability Panel (SGIP) created by NIST in November 2009
- Continue participation in SGIP, NIST Interoperability home-to-grid working group, and EPRI Appliance Market Transformation Project
- Residential critical peak pricing (Schedule 12) awaiting IT and other resources to develop systems necessary for implementation

Additional Notes and Updates

- Training date for CAPO and associated organizations is scheduled for the 2nd quarter of 2010.

Contacts: John Sullivan, AMI Director, 503-464-8989
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