



Portland General Electric Company
121 SW Salmon Street • Portland, Oregon 97204
PortlandGeneral.com

May 27, 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 – 2010-Q1

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 March 31, 2010.

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,

Alex Tooman
Project Manager, Regulatory Affairs

cc: UE 189 Service List
John Sullivan
Margo Bryant



Quarterly Report to the OPUC

For quarter ending March 31, 2010

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	621,651	0.13%	332,338	944	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	\$16,678	\$87,398	\$14,984	\$(5,336)
Network Jobs	5,507	55	5,052	0	(681)
IT Equip. & License Jobs	14,161	1,523	13,971	4,427	4,463
Vehicles	0	0	99	45	144
Capital Sub-Total (Unloaded)	127,387	18,256	106,520	19,457	(1,410)
Capital Loadings	4,777	869	5,448	694	1,365
Total Capital (Loaded)	\$132,164	\$19,124	\$111,967	\$20,151	\$(46)
Total O&M (Loaded)	\$12,000	\$524	\$8,377	\$3,479	(143)
Total Capital and O&M (Loaded Costs)	\$144,164	\$19,648	\$120,345	\$ 23,630	\$(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	0	7,177	0
Meter Installation – Full Deployment	09/2010	16,637	80,030	14,890
Meter Base Repairs	09/2010	40	192	95
Meters – Total		16,678	87,398	14,984
Tower Site Deployment	12/2009	55	5,052	0
Towers – Total		55	5,052	0

Quarterly Report to the OPUC

For quarter ending March 31, 2010

Project Job Status	Due Date	Actual Capital Cost This Quarter*	Actual Capital Cost to Date*	Remaining Capital Cost to Complete*
Project Office	12/2010	0	572	25
Automated Meter Exchange (Closed)	06/2008	0	921	0
IT Infrastructure Support	09/2010	92	4,831	0
Connects	12/2010	6	67	59
On Cycle Billing (Phase I Closed)	06/2008	12	135	141
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) (Phase I Closed)	06/2010	41	144	0
Routine Meter Exchange	12/2009	4	59	48
IT AMI Software	12/2010	1,214	5,068	3,145
Information-Driven Energy Savings (IDES)	12/2010	70	395	157
Customer-Selected Due Date (CSDD)	11/2010	15	22	105
Host System Installation – Full Deployment	12/2010	62	502	110
Interval Data Storage & Usage (IDU) (Closed)	11/2009	0	416	0
Work Orders for Business Process Jobs	04/2010	7	256	0
Contingencies	12/2010	0	0	633
IT Equipment & Licenses – Total		1,523	13,971	4,427
Vehicles	06/2009	0	99	45
Vehicles – Total		0	99	45
* Unloaded, rounded to nearest thousand				

AMI Implementation: Completed Activities – Q1 2010

Previously Planned Activities for Q1

- Completed mass meter deployment in Salem meter read office (MRO) area
- Continued mass meter deployment in Portland and Woodburn MROs
- Began mass meter deployment in Oregon City and Gresham MROs
- Completed installation of data backhaul at Willamina 3rd party TGB site; one TGB location (Brightwood Sub) still requires backhaul connectivity to complete network communications build-out
- Completed upgrade of MDC/AIX
- Implemented patch 7 to version 1.7.1 of Sensus host system software
- Implemented Energy Assistance functionality (Connects)
- Completed testing Payment Extensions functionality (Connects)
- Continued development and testing of the Payment Redistribution functionalities (Connects)
- Selected vendor and beginning coding the automated phone call (Connects)
- Conducted focus groups with customers scheduled to have remote connect meters (Connects)
- Began development of software to enroll customers (Customer Selected Due Date)
- Completed end-to-end testing and regression testing for CIS Work Orders for Meter Services
- Began development of software to remove duplicate edits in metering and billing systems to eliminate redundancy in work processes (On Cycle Billing)
- Began 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)
- Issued first release of software for Lost Revenue Protection (LRP)
- Completed infrastructure storage, server and database configuration in preparation for migrating to new servers for Interval Data Usage (IDU) (Note: IDU project work was consolidated into the IT Infrastructure, LRP, and IDES jobs.)
- Began migration of production ISIS (required for energy recovery LRP application) and IDU databases to new servers



Quarterly Report to the OPUC

For quarter ending March 31, 2010

Additional Activities Undertaken in Q1

- Completed 800 qualifying repairs to date on customer equipment under Commission-approved customer repairs tariff; repairs thus far total \$213,151 at an average cost of \$267 per repair

AMI Implementation: Planned Activities – Q2 2010

- Complete mass meter deployment in Portland, Woodburn and Oregon City meter read office areas
- Continue meter deployment in Gresham and Sheridan meter read office areas
- Complete backhaul provisioning at Brightwood substation TGB site
- Continue applying fixes to host system software, as needed, to resolve deficiencies and complete required functionality
- Release CIS Work Orders for Meter Services to production
- Release Payment Extensions functionality to production (Connects)
- Continue development/testing of Payment Redistribution functionalities (Connects)
- Perform coding and testing of automated phone calls (Connects)
- Implement remote connection pilot (Connects)
- Plan training and set training dates for CAPO and other agencies for the 3rd quarter of 2010 (Connects)
- Complete move of meter reading validation release into production to remove duplicate edits between CIS and MDC systems (On Cycle Billing)
- Beginning running initial performance benchmarks for IDU database (IDU)
- Plan enrollment phase (Customer Selected Due Date)
- Perform regression testing on move in/move out timestamps; move to production when completed (On Cycle Billing)

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

- Performed initial technical architectural and workbook review based on requirements for IDES gathered in Q4
- Completed interface analysis (IDES)
- Continued participation in SGIP, NIST Interoperability home-to-grid working group, and EPRI Appliance Market Transformation Project

Customer & System Benefits (Conditions): Planned Activities – Q2 2010

- Complete review for approval and scheduling of work (IDES)
- Update schedules and resources for IDES work based on approved budget and schedule
- Continue participation in SGIP, NIST Interoperability home-to-grid working group and EPRI Appliance Market Transformation Project; complete a white paper for NIST and SGIP that advocates a standardized appliance socket option.

Additional Notes and Updates

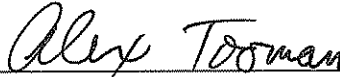
- Continue working with Sensus to ensure project completion by year-end 2010
- Delayed the critical peak pricing (CPP) tariff (Schedule 12) until after the AMI project is complete and IT resources are available for CPP software development and implementation.

Contacts: John Sullivan, AMI Director, 503-464-8989
Alex Tooman, Rates & Regulatory Affairs, 503-464-7623

CERTIFICATE OF SERVICE

I hereby certify that I have this day caused **AMI Project Quarterly Status Update-2010-Q1** to be served by electronic mail to those parties whose email addresses appear on the attached service list and by method specified, postage prepaid and properly addressed, to those parties on the attached service list who have not waived paper service from OPUC Docket No. UE 189.

Dated at Portland, Oregon, this 27th day of May , 2010.



Alex Tooman, Project Manager, Regulatory Affairs



eDockets

Docket Summary

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[eFiling](#)

Docket No: UE 189 **Docket Name:** PORTLAND GENERAL ELECTRIC

[Print Summary](#)

Subject Company: PORTLAND GENERAL ELECTRIC

In the Matter of PORTLAND GENERAL ELECTRIC COMPANY Request to Add Schedule 111, Advanced Metering Infrastructure (AMI) Filed by Pamela G. Lesh. (See Initial Utility Filing for electronic version.)

Filing Date: 3/7/2007

Advice No: 07-08

Effective: 6/1/2008

Expiration:

Status: ACCEPTED

Final Order: 08-309

Order Signed: 6/5/2008

[Email Service List \(semi-colon delimited\)](#) [Email Service List \(comma delimited\)](#)

If you experience problems with the above 'Email Service List' links, please try one of these:

[Service List Popup \(semi-colon delimited\)](#) [Service List Popup \(comma delimited\)](#)

[General information about Tariff Filings.](#)

<u>ACTIONS</u>		<u>SERVICE LIST (Parties)</u>	<u>SCHEDULE</u>
W=Waive Paper service	C=Confidential HC=Highly Confidential	<u>Sort by Last Name</u>	<u>Sort by Company Name</u>
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