



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

February 2, 2011

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 – Q4-2010

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, 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
Eric Spack
Margo Bryant



Quarterly Report to the OPUC

For quarter ending December 31, 2010

Advanced Metering Infrastructure (AMI) Project

Summary: This project carries out activities to deploy a two-way, fixed-network AMI system. Scope includes project planning, IT readiness, contracting, business process development, system acceptance testing, deployment of 830,000 meters and radio-frequency (RF) communications equipment, and evaluation of 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	June 2011	824,697	0.20%	775,831	2,229	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	\$1,152	\$103,762	\$653	\$(3,304)
Network Jobs	5,507	35	5,266	938	697
IT Equip. & License Jobs	14,161	2,291	21,349	3,934	11,122
Vehicles	0	0	99	0	99
Capital Sub-Total (Unloaded)	127,387	1,175	130,475	5,525	8,613
Capital Loadings	4,777	702	7,680	1,344	4,247
Total Capital (Loaded)	\$132,164	\$1,876	\$138,155	\$6,869	\$12,860
Total O&M (Loaded)	\$12,000	\$729	\$10,138	\$1,262	(600)
Total Capital and O&M (Loaded Costs)	\$144,164	\$2,605	\$148,293	\$8,131	\$12,261

Cost and Schedule Factors – Current Quarter: The project is expected to be completed in Q2 2011. All IT development work will be completed in January of 2011 with the exception of IDES/IDU, which will carry into Q2 2011. PGE also will be installing the remaining meters (e.g., load research and SmartSynch/GPRS meters) that had been placed on hold or were otherwise unable to be completed during the full deployment period.

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	04/13/2009	Full deployment was initiated on 4/13/09 per revised schedule.
▪ Initiate Route Rollovers to Network Reads	08/21/2009	First meter reading routes were switched over from manual to network reads on 9/17/2009.
▪ Complete RF Network Installation	12/31/2010	Two towers were added in Q4 2010 to enhance network communications; analysis of future needs continues.
▪ Complete Full Meter Deployment	08/31/2010	Contract meter installer completed its deployment work as of 8/31/2010; PGE Meter Services has completed all but about 4,400 meter exchanges that are on hold.
▪ Complete Project Close-out	06/30/2011	Remaining open jobs completed and closed out by 6/30/2011.

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	06/2011	(1,170)	96,205	702
Meter Base Repairs	06/2011	18	380	(48)
Meters – Total		(1,152)	103,762	653
Tower Site Deployment	12/2010	35	5,266	938
Towers – Total		35	5,266	938



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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	06/2011	(15)	655	(21)
Automated Meter Exchange (AME) (Closed)	06/2008	0	921	0
IT Infrastructure Support	06/2011	5	4,908	171
Connects	01/2011	15	185	(10)
On Cycle Billing (move-in/move-out)	01/2011	3	163	45
Host System Installation – SAT (Closed)	04/2009	0	583	0
MDC – General AMI Requirements (Closed)	01/2010	0	0	0
MDC – Comm. Server SAT Testing (Closed)	04/2009	0	0	0
Lost Revenue Protection (LRP)	01/2011	32	243	(1)
Smart Meter Installation & Maintenance (SMIM)	01/2011	31	128	75
IT AMI Software	06/2011	2,215	11,786	2,335
Information-Driven Energy Savings (IDES)	06/2011	48	464	276
Customer-Selected Due Date (CSDD)	01/2011	14	65	25
Host System Installation – Full Deployment	03/2011	19	576	440
Interval Data Storage & Usage (IDU) (Closed)	11/2009	0	416	0
Work Orders for Business Process Jobs	04/2010	(75)	257	0
Contingencies	06/2011	0	0	600
IT Equipment & Licenses – Total		2,291	21,349	3,934
Vehicles	06/2009	0	99	0
Vehicles – Total		0	99	0
* Unloaded, rounded to nearest thousand				

AMI Implementation: Completed Activities – Q4 2010

Meter Deployment

- Completed all remaining meter exchanges received back from the contract meter installer as “unable to complete” and disbanded internal AMI Field Response Team (FRT)
- Maintained current hold on exchange of 4S config 02 demand meters pending successful testing of the collection of demand readings over the network
- Maintained current hold on exchange of load research and SmartSynch/GPRS meters that had been placed on temporary hold during the full deployment period pending improvement in interval data collection rates
- Exchanged approximately 4,000 non-communicating meters, including most of the meters found to have an integrated circuit defect
- Completed 24 qualifying repairs in Q4 on customer equipment under Commission-approved customer repairs tariff; repairs through Q4 2010 total 1,668 repairs for \$419,298 at an average cost of \$251 per repair
- Released the final 8 temporary-hire meter readers as of 12/31/2010; enter 2011 with 25 meter readers and 1 supervisor

Network

- Completed installation and commissioning of new TGBs in Oregon City and downtown Portland
- Upgraded the Carver-Outlook tower site to a three-sectored site
- In final stages of preparing to upgrade FlexNet host system from version 1.7.1 to version 2.1
- Completed installation of final set of filters on Sprint/Nextel sites to reduce network interference

Business Processes

- Launched remote connect functionality (i.e., both remote disconnect and reconnect from office) (Connects project)
- Launched Payment Redistribution functionality (Connects project)
- Completed training and launched billing/credit, cash remittance, customer service and field personnel (Connects project)
- Completed development of software to enroll existing customers in preparation for Q1 launch (CSDD project)
- Continued planning for customer communications and review with OPUC concerning late fee tariff (CSDD project)
- Implemented a new portal which eliminated duplicate entry for new installs (SMIM project)



Quarterly Report to the OPUC

For quarter ending December 31, 2010

- Completed development/testing of high/low usage automation (LRP project)
- Completed development/testing of move in/move out timestamp (On-Cycle Billing project)
- Initiated data structure build out on new servers and loading of interval data (IDU project, now part of IDES)

Project Office

- Transitioned Project Director responsibilities from John Sullivan to Eric Spack
- Revised Business Process Roadmap and update timeline for deliverables in Q4 2010 and Q1-Q2 2011
- Closed Woodburn Meter Reading office
- Began transition of AMI development team into IT Applications group
- Updated Commission in December 2010 on AMI project status

AMI Implementation: Planned Activities – Q1 2011

Planned Activities in Q1 2011

Meter Deployment

- Install approximately 800 4S (config 02) demand meters pending successful testing of the collection of demand readings over the network
- Complete the installation of load research and SmartSynch/GPRS meters that were placed on temporary hold during the full deployment period
- Exchange remaining approximately 2,000 non-communicating meters

Network

- Install up to six FlexNet Remote Portals (FRPs) to test their ability to improve communications with meters in challenging geographic locations
- Complete upgrade to FlexNet host system version 2.1
- Begin testing security functionality delivered in version 2.1

Business Processes

- Deliver the final automation of back-end processing (Connects project)
- Begin performing all reconnects and disconnects from the office (Connects project)
- Reduce workforce in Field Collections by 12 positions (Connects project) (NOTE: To date, all but one employee is being reassigned to another position within PGE or has retired.)
- Begin launch of preferred due data billing capability; rollout process will extend into Q2 2011 (CSDD project)
- Continue planning for customer communications and review with OPUC concerning late fee tariff (CSDD project)
- Implement features to allow Coordinators to create work orders in the new portal and automatically update all required systems (SMIM project)
- Implement high/low usage automation (LRP project)
- Implement move in/move out timestamp (On-Cycle Billing project)
- Complete requirements and move into code development phases (IDU project)

Project Office

- Complete transition of AMI development team into IT Applications group
- Continue working with Sensus to ensure completion of remaining contractual deliverables
- Initiate project closure activities and transition to operations

Customer & System Benefits (Conditions): Completed Activities – Q4 2010

- Continued participation in SGIP, NIST Interoperability home-to-grid working group and EPRI Appliance Market Transformation Project
- Reached agreement with OPUC for Critical Peak Pricing (CPP) pilot program and tariff
- Formed dedicated project team and initiate software development for online customer data presentation (IDES project, aka *Energy Tracker*)
- Filed a tariff and deferral associated with an Automated Demand Response Pilot

Customer & System Benefits (Conditions): Planned Activities – Q1 2011

- Continue participation in SGIP, NIST Interoperability home-to-grid working group and EPRI Appliance Market Transformation Project
- Create data feeds for customer billing information and interval data (IDES project)
- Integrate Bill History/Bill Analysis tools into portlandgeneral.com for residential and business customers (IDES project)



Advanced
Metering
Infrastructure

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Additional Notes and Updates

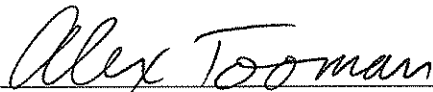
- None

Contacts: John Sullivan, outgoing AMI Project Director, 503-464-8989
Eric Spack, incoming AMI Project Director, 503-464-8744
Alex Tooman, Rates & Regulatory Affairs, 503-464-7623

CERTIFICATE OF SERVICE

I hereby certify that I have this day caused the foregoing **UE 189 PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT REVISED QUARTERLY STATUS UPDATE Q4-2010** to be served by electronic mail to those parties whose email addresses appear on the attached service list, and by First Class US Mail, 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 2nd day of February 2011.



Alex Tooman
Project Manager, Regulatory Affairs
On behalf of Portland General Electric Company

**SERVICE LIST
OPUC DOCKET # UE 189**

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