



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

August 16, 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-Q2**

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 June 30, 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](mailto:pge.opuc.filings@pgn.com).

Sincerely,

A handwritten signature in black ink that reads "Alex Tooman". The signature is written in a cursive, flowing style.

Alex Tooman  
Project Manager, Regulatory Affairs

cc: UE 189 Service List  
John Sullivan  
Margo Bryant



# Quarterly Report to the OPUC

For quarter ending June 30, 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 830,000 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	758,772	0.18%	532,181	1,542	0

Project Cost Summary * In Thousands	AMI Tariff Budget*	Actual Cost This Quarter*	Actual Cost to Date*	Remaining Cost to Complete*	Over / (Under) Budget*
<b>Capital (Tariff) Costs</b>					
Meters Jobs	\$ 107,719	\$15,247	\$102,645	\$1,770	\$(3,304)
Network Jobs	5,507	78	5,130	474	97
IT Equip. & License Jobs	14,161	2,832	16,803	9,080	11,722
Vehicles	0	0	99	0	99
<b>Capital Sub-Total (Unloaded)</b>	127,387	18,157	124,676	11,324	8,613
Capital Loadings	4,777	749	6,197	2,827	4,247
<b>Total Capital (Loaded)</b>	\$132,164	\$18,906	\$130,873	\$14,151	\$12,860
<b>Total O&amp;M (Loaded)</b>	\$12,000	\$466	\$8,844	\$2,556	(600)
<b>Total Capital and O&amp;M (Loaded Costs)</b>	\$144,164	\$19,372	\$139,717	\$16,708	\$12,261

**Cost and Schedule Factors – Current Quarter:** Remaining cost to complete is based on a revised estimate of project costs., which is also reflected in the Over/(Under) Budget column. Meter jobs continue to run under budget. The Tower Network budget increased by \$0.8 million due to extensive network tuning now underway. Budget for IT Equip. & License jobs also increased (by \$7.2 million) as development efforts in support of business process changes exceed our revised estimates. As a result, loadings estimates also increased. These additional costs were not included in the 2011 rate case, UE 215. The project is now expected to be complete in Q2 2011.

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 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 base stations (TGBs) have been constructed and commissioned; two additional TGBs are being added to enhance network communications.
▪ 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	15,162	95,191	1,715
Meter Base Repairs	09/2010	85	277	55
<b>Meters – Total</b>		<b>15,247</b>	<b>102,645</b>	<b>1,769</b>
Tower Site Deployment	12/2009	78	5,130	473
<b>Towers – Total</b>		<b>78</b>	<b>5,130</b>	<b>473</b>



# Quarterly Report to the OPUC

For quarter ending June 30, 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	51	624	10
Automated Meter Exchange (Closed)	06/2008	0	921	0
IT Infrastructure Support	09/2010	56	4,886	192
Connects	12/2010	5	72	103
On Cycle Billing (Phase I Closed)	06/2008	15	150	58
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	24	168	74
Routine Meter Exchange	12/2009	13	73	130
IT AMI Software	12/2010	2,605	7,672	6,449
Information-Driven Energy Savings (IDES)	12/2010	10	404	336
Customer-Selected Due Date (CSDD)	11/2010	13	35	55
Host System Installation – Full Deployment	12/2010	40	542	474
Interval Data Storage & Usage (IDU) (Closed)	11/2009	0	416	0
Work Orders for Business Process Jobs	04/2010	1	257	0
Contingencies	12/2010	0	0	1,200
<b>IT Equipment &amp; Licenses – Total</b>		<b>2,832</b>	<b>16,803</b>	<b>9,080</b>
Vehicles	06/2009	0	99	0
<b>Vehicles – Total</b>		<b>0</b>	<b>99</b>	<b>0</b>
* Unloaded, rounded to nearest thousand				

## AMI Implementation: Completed Activities – Q2 2010

### Previously Planned Activities for Q2

- Completed mass meter deployment in the Portland, Woodburn and Oregon City meter read office (MRO) areas
- Continued meter deployment in Sheridan (95% complete) and Gresham (55% complete) MROs
- Completed backhaul provisioning at Brightwood substation tower site
- Initiated installation of two additional towers/TGBs at the Wilsonville Substation and Newberg Line Center
- Continue applying fixes to host system software, as needed, to resolve deficiencies and complete required functionality
- Implemented patch 9 to version 1.7.1 of Sensus host system software
- Began development of software to enroll existing customers (Customer Selected Due Date project)
- Developed plan for customer enrollment phases (CSDD)
- Completed move of meter reading validation release into production to remove duplicate edits between CIS and MDC systems (On Cycle Billing project)
- Completed software development to pull a read and timestamp in metering and billing systems as needed for move-in/move-out; completed regression testing and sent back for additional development (On Cycle Billing)
- Deferred move-in/move-out phases until after 2010 due to resource constraints (On Cycle Billing)
- Completed new servers for Interval Data Usage and began running initial performance benchmarks for IDU database
- Released Payment Extensions functionality to production (Connects project)
- Continued development/testing of Payment Redistribution functionalities (Connects)
- Completed coding and initiated testing of automated phone calls (Connects)
- Delayed implement remote connection pilot until July 2010 (Connects)
- Prepared training for low-income agencies for August 2010 (Connects)

### Additional Activities Undertaken in Q2

- Completed 1,325 qualifying repairs to date on customer equipment under Commission-approved customer repairs tariff; repairs thus far total \$321,475 at an average cost of \$243 per repair



# Quarterly Report to the OPUC

For quarter ending June 30, 2010

## AMI Implementation: Planned Activities – Q3 2010

- Complete mass meter installation, audit meter inventory and close out contract with contract meter installer (CMI)
- Complete installation/commissioning of new TGBs at Wilsonville Sub and Newberg Line Center
- Launch remote connect/disconnect functionality, beginning with pilot in July and full launch in August (Connects)
- Conduct low-income agency training (scheduled for August 4) (Connects)
- Complete software development to enroll existing customers (CSDD)
- Complete software development to pull a read and timestamp in metering and billing systems as needed for move-in/move-out processing (On Cycle Billing)
- Issue Release 1 of Smart Meter Installation & Maintenance (SMIM), formerly called Routine MX project (eliminates duplicate entry)
- Begin work on Release 2 of SMIM project
- Issue second release of Lost Revenue Protection (LRP) to increase filtering to help focus lead generation
- Preparing for upgrade to FlexNet host system version 2.1 and 2.2, depending on availability
- Continue to tune network, add PCS channel to some sites and evaluate potential for additional hardware to increase system throughput
- Continue to work with Sensus to resolve interference issues at multiple tower locations
- Complete migration of production ISIS (required for Lost Revenue Protection energy recovery application) and IDU databases to new servers
- Prepare for first involuntary lay-offs of Meter Reading employees on or about July 30; to this point, staffing reductions in Meter Reading have been accommodated through transitions to other jobs or voluntary resignations/retirements

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

- Completed interface analysis for Information-Driven Energy Savings project (IDES)
- Completed review for approval and scheduling of work for IDES project
- Updated schedules and resources for IDES work based on approved budget and schedule, and begin preparations for formal approval by project sponsors
- Submitted white paper (Conrad Eustis) on “Free Market Choice for Appliance Physical Layer Communications” on behalf of the Home-to-Grid Domain Expert Working Group for the GridWise Architecture Council, SGIP and NIST. Paper advocates for standardized appliance socket
- Invited (Conrad Eustis) to testify July 1<sup>st</sup> on smart grid architecture and standards before the U.S. congressional Subcommittee on Technology and Innovation of the House Science and Technology Committee

## Customer & System Benefits (Conditions): Planned Activities – Q3 2010

- Continue participation in SGIP, NIST Interoperability home-to-grid working group and EPRI Appliance Market Transformation Project
- Tentative plan is for data link to Alcara to be built in the December 2010 to March 2011 timeframe for the Information-Driven Energy Savings (IDES) project; customer launch on Web and CSR tool projected for May 2011
- Reviewing status and following up on OPUC request for Critical Peak Pricing dates

## Additional Notes and Updates

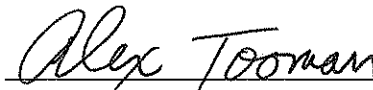
- Continue working with Sensus to ensure completion of contractual deliverables by year-end 2010
- Costs per covered repair under AMI Customer Repairs Tariff have been lower than projected but volumes have been higher. Actual costs during deployment may exceed level forecast in tariff filing.

**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 the foregoing **UE 189 PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT REVISED QUARTERLY STATUS UPDATE Q2-2010** 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 16th day of August 2010.



Alex Tooman

Project Manager, Regulatory Affairs

On behalf of Portland General Electric Company



**eDockets**

Docket Summary

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[eFiling](#)

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

[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.](#)

ACTIONS		SERVICE LIST (Parties)	SCHEDULE
W=Waive Paper service	C=Confidential HC=Highly Confidential	Sort by Last Name	Sort by Company Name
W	<b>CITIZENS' UTILITY BOARD OF OREGON</b>		
	ROBERT JENKS (C) EXECUTIVE DIRECTOR	610 SW BROADWAY, STE 400 PORTLAND OR 97205 bob@oregoncub.org	
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	<b>DAVISON VAN CLEVE PC</b>		
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W	<b>DEPARTMENT OF JUSTICE</b>		
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W	<b>OREGON DEPARTMENT OF ENERGY</b>		
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