



**Portland General Electric Company**  
121 SW Salmon Street • Portland, Oregon 97204  
[PortlandGeneral.com](http://PortlandGeneral.com)

May 8, 2009

**Email/US Postal 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-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, 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](mailto:pge.opuc.filings@pgn.com)

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick G. Hager", is written over a printed name.

Patrick G. Hager  
Manager, Regulatory Affairs

cc: UE 189 Service List  
Joel Westvold  
Alex Tooman  
Margo Bryant



# Quarterly Report to the OPUC

For quarter ending March 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 852,000 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 by Network for Billing	JMR Routes Remaining with PGE	JMR Routes Remaining with NNG
August 2005	October 2010	26,132	0.05%	0	1,691	568

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	\$5,597	\$9,824	\$93,361	\$(4,534)
Network Jobs	5,507	1,271	3,360	1,353	(794)
IT Equip. & License Jobs	14,161	701	5,841	13,328	5,008
Vehicles	0	27	98	22	120
<b>Capital Sub-Total (Unloaded)</b>	127,387	7,596	19,123	108,064	(201)
Capital Loadings	4,777	444	2,192	2,853	268
<b>Total Capital (Loaded)</b>	\$132,164	\$8,040	\$21,315	\$110,917	\$67
<b>Total O&amp;M (Loaded)</b>	\$12,000	\$502	\$6,045	\$5,914	(41)
<b>Total Capital and O&amp;M (Loaded Costs)</b>	\$144,164	\$8,541	\$27,359	\$116,831	\$27

### Cost and Schedule Factors – Current Quarter:

- Host System Installation-SAT job: A net credit of \$0.09 million was applied this quarter. This was a result of \$0.12 million accrual in March 2009 for Sensus liquidated damages.
- Start of full deployment resulted in significant planned costs for meter jobs.
- Meter Base Repairs is a new job added to Project Job Status below.
- Due dates for certain specific projects have been updated.

Project Milestones	Due Date	Status
▪ Begin System Acceptance Testing (SAT)	06/02/2008	Started 6/2/08 with meter deployment and testing.
▪ Complete System Acceptance Testing	04/10/2009	SAT testing is nearly complete. Documentation of test results will be completed in Q2.
▪ Begin Full Meter Deployment	4/13/2009	Meter supply and software issue, and associated delay in completion of SAT, is resulting in a delay in start of full meter deployment, which is now scheduled to begin 4/13/2009.
▪ Complete RF Network Installation	12/31/2009	15 of 43 tower gateway basestations (TGBs) have been constructed and commissioned, including 5 during Q1 2009.
▪ Complete Full Meter Deployment	8/31/2010	Contract meter installer has agreed to 72-week deployment schedule, rather than original 84 weeks. Full deployment is now scheduled to be completed by end of August 2010.

Project Job Status	Due Date	Actual Capital Cost This Quarter*	Actual Capital Cost to Date*	Remaining Capital Cost to Complete*
Meter Installation – SAT	12/2008	2,195	6,391	(536)
Meter Installation – Full Deployment	09/2010	3,401	3,431	93,612
Meter Base Repairs	09/2010	2	2	285
<b>Meters – Total</b>		<b>5,597</b>	<b>9,824</b>	<b>93,361</b>



# Quarterly Report to the OPUC

For quarter ending March 31, 2009

Tower Site Deployment	12/2009	1,271	3,360	1,353
<b>Towers – Total</b>		<b>1,271</b>	<b>3,360</b>	<b>1,353</b>
Project Office	09/2010	1	568	39
Automated Meter Exchange (AME)	06/2008	6	922	30
IT Infrastructure Support	09/2010	424	2,921	1,020
Connects	04/2009	12	12	1,024
On Cycle Billing	06/2008	19	83	247
Host System Installation – SAT	04/2009	(88)	(80)	674
MDC – General AMI Requirements	01/2010	0	0	0
MDC – CS SAT Testing	04/2009	0	0	0
Lost Revenue Protection (LRP)	01/2010	0	6	162
Meter Reading Process Redesign	09/2009	0	0	0
Routine Meter Exchange	12/2009	0	1	503
IT AMI Software	06/2010	222	660	1,925
Information-Driven Energy Savings (IDES)	03/2010	31	72	410
Customer-Selected Due Date (CSDD)	12/2010	0	0	521
Host System Installation – Full Deployment	09/2010	0	300	947
Interval Data Storage & Usage (IDU)	11/2009	21	320	1,552
Work Orders for Business Process	12/2009	52	55	929
Contingencies	09/2010	0	0	3,346
<b>IT Equipment &amp; Licenses – Total</b>		<b>701</b>	<b>5,841</b>	<b>13,328</b>
Vehicles	06/2009	27	98	22
<b>Vehicles – Total</b>		<b>27</b>	<b>98</b>	<b>22</b>

\* Unloaded, rounded to nearest thousand

## Implementation Activities – Q1 2009

### Previously Planned Activities

- Completed formal SAT testing
- Initiated end-to-end testing of PGE's internal systems
- Delayed start of full meter deployment for residential customers until mid-April
- Completed construction/commissioning of five (5) additional tower locations
- Completed installation and testing of final patches to version 1.6 of FlexNet host system software
- Completed long-range staffing plan for Meter Reading and Field Collections
- Signed transition agreement with NWN for dissolution of JMR contract
- Completed initial security testing of RF network
- Selected preferred vendor for IDES pilot; initiated contract negotiations
- Completed stress testing of RNI (regional network interface, the FlexNet system's head-end)
- Continued work on troubleshooting process for non-communicating meters.
- Implemented customer repairs policy consistent with approved tariff
- Continue evaluation of additional meter vendor for 12S remote connect meters
- Updated and refined meter deployment and meter order schedules for Full Deployment
- Completed testing for route rollover to network reads
- Updated customer communications materials and advanced notification plans based on customer feedback and operational experience during SAT period
- Completed automated meter exchange (AME) project



# Quarterly Report to the OPUC

For quarter ending March 31, 2009

## Additional Activities Undertaken

- Completed stress testing of Meter Data Consolidator (MDC)
- Completed Connects project Phase 1 (energy assistance) functional specifications
- Completed business process roadmap
- Completed requirements for enrollment phase of Customer Selected Due Date (CSDD) project

## **Planned Activities – Q2 2009**

- Initiate full deployment for residential customers
- Complete SAT testing documentation and sign off
- Complete end-to-end system testing
- Complete installation and cut-over to production servers for host system
- Complete build out and testing of MDC server/storage
- Initiate rollover of manually read meter routes to network reads
- Install and initiate testing of version 1.7.1 of host system software
- Construct and commission seven (7) additional tower gateway basestations (TGBs)
- Complete requirements and architecture design work for Interval Data Usage (IDU) project
- Complete contracting, project pre-assessment and architecture description for IDES project
- Schedule workshop with OPUC Staff to demonstrate the selected IDES software
- Complete Connects project Phase 1 (energy assistance) technical specifications and Phase 2 (payment extension) functional specifications
- Conduct first round of training for customer service reps (CSRs) for start of full meter deployment
- Complete phase 1 system test (functional testing) for on-cycle billing
- Continue to work with vendor on security options

## **Additional Notes and Updates**

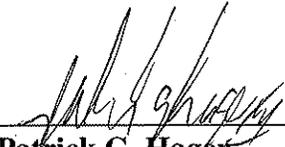
- Training date for CAPO and associated organizations is scheduled for the 2<sup>nd</sup> quarter of 2010
- PGE filed a tariff for a firm load curtailment pilot program for large customers on December 23, 2008 (Advice No. 08-22). Discussions are ongoing with Staff and Commission.
- PGE has received responses to its RFP for peak demand side capacity from residential and small to medium business customers. After evaluating the responses, two vendors were selected from the short list. Negotiations are currently under way with both.
- PGE filed a tariff with the OPUC on March 31, 2009 for a critical peak pricing (CPP) pilot for residential customers. The pilot will be active from May 2010 to April 2012 and is designed to accommodate up to 3,500 participants. In preparation, PGE conducted external stakeholder meetings to gather input. In Q4 2008, using comments from stakeholders on three types of designs and the results of pilots by other companies, PGE proposed a design and research plan. The draft tariff was then circulated to stakeholders in Q1 2009 and discussed at a subsequent stakeholder meeting.
- PGE is participating in the National Institute of Standards and Training (NIST) Interoperability work 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, PGE's work with EPRI has encouraged them to launch a project in 2009 on defining a standard communications interface at the appliance.

Contacts: Joel Westvold, AMI Director, 503-464-7583  
Alex Tooman, Rates & Regulatory Affairs, 503-464-7623

**CERTIFICATE OF SERVICE**

I hereby certify that I have on May 8, 2009 caused the following: **PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT QUARTERLY STATUS UPDATE Q1-2009** to be served to the following parties or attorneys listed on the attached service list by electronic mail 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.

Dated this 8<sup>th</sup> day of May, 2009.

  
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**Patrick G. Hager**  
Manager, Regulatory Affairs  
On behalf of Portland General Electric Company

**Summary Report****UE 189 PORTLAND GENERAL ELECTRIC****Category:** Electric Rate Case**Filed By:** PORTLAND GENERAL ELECTRIC

This filing adds Schedule 111, Advanced Metering Infrastructure.

**Filing Date:** 3/7/2007      **Advice No:** 07-08**Effective Date:** 6/1/2008      **Expiration Date:**      **Status:** ACCEPTED**Final Order:** 08-309      **Signed:** 3/7/2007**SERVICE LIST:**

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