



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

July 31, 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-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, 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,

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 June 30, 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 by Network for Billing	JMR Routes Remaining with PGE	JMR Routes Remaining with NNG
August 2005	October 2010	98,513	0.20%	0	1,690	562

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	\$12,069	\$21,893	\$81,292	\$(4,534)
Network Jobs	5,507	740	4,100	613	(794)
IT Equip. & License Jobs	14,161	897	6,738	12,430	5,008
Vehicles	0	0	98	22	120
<b>Capital Sub-Total (Unloaded)</b>	127,387	13,707	32,829	94,357	(201)
Capital Loadings	4,777	598	2,790	2,255	268
<b>Total Capital (Loaded)</b>	\$132,164	\$14,304	\$35,619	\$96,612	\$67
<b>Total O&amp;M (Loaded)</b>	\$12,000	\$598	\$6,643	\$5,317	(41)
<b>Total Capital and O&amp;M (Loaded Costs)</b>	\$144,164	\$14,902	\$42,261	\$101,929	\$27

**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 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 read routes will be switched over from manual to network reads as of 8/21/09.
▪ Complete RF Network Installation	12/31/2009	21 of 44 tower gateway basestations (TGBs) have been constructed and commissioned, including 6 during Q2 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	83	6,475	(619)
Meter Installation – Full Deployment	09/2010	11,954	15,385	81,657
Meter Base Repairs	09/2010	32	34	253
<b>Meters – Total</b>		<b>12,069</b>	<b>21,893</b>	<b>81,292</b>
Tower Site Deployment	12/2009	740	4,100	613
<b>Towers – Total</b>		<b>740</b>	<b>4,100</b>	<b>613</b>
Project Job Status	Due Date	Actual Capital	Actual Capital	Remaining Capital



# Quarterly Report to the OPUC

For quarter ending June 30, 2009

		Cost This Quarter*	Cost to Date*	Cost to Complete*
Project Office	09/2010	1	570	37
Automated Meter Exchange (AME)	06/2008	2	924	28
IT Infrastructure Support	09/2010	158	3,080	862
Connects	04/2009	48	60	976
On Cycle Billing	06/2008	31	114	216
Host System Installation – SAT	04/2009	11	(67)	662
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	1	2	502
IT AMI Software	06/2010	352	1,011	1,573
Information-Driven Energy Savings (IDES)	03/2010	46	118	363
Customer-Selected Due Date (CSDD)	12/2010	0	0	521
Host System Installation – Full Deployment	09/2010	36	336	911
Interval Data Storage & Usage (IDU)	11/2009	73	393	1,479
Work Orders for Business Process	12/2009	137	192	792
Contingencies	09/2010	0	0	3,346
<b>IT Equipment &amp; Licenses – Total</b>		<b>897</b>	<b>6,738</b>	<b>12,430</b>
Vehicles	06/2009	0	98	22
<b>Vehicles – Total</b>		<b>0</b>	<b>98</b>	<b>22</b>

\* Unloaded, rounded to nearest thousand

## Implementation Activities – Q2 2009

### Previously Planned Activities for Q2

- Completed SAT testing and documentation
- Initiated full meter deployment, beginning with the Beaverton Meter Read Office (MRO) area
- Completed end-to-end system testing
- Completed installation of production servers and connection to tower gateway base stations (TGBs)
- Began installation and testing of version 1.7.1 of host system software
- Constructed and commissioned six (6) additional TGBs for total of 21 through Q2 2009
- Completed requirements and architecture design work for Interval Data Usage (IDU) project
- Completed project pre-assessment and architecture description for IDES project; continued contract negotiations
- Scheduled workshop with OPUC Staff to describe the selected IDES software
- Completed Connects project Phase 1 (energy assistance) technical specifications and Phase 2 (payment extension) functional specifications
- Conducted first round of training for customer service reps (CSRs) for start of full meter deployment
- Completed phase 1 (CIS time-stamping and estimating reads in MDC) system test and training for on-cycle billing
- Completed second round of security work with vendor on network and host system

### Additional Activities Undertaken in Q2

- Created centralized software development group to accelerate IT work on project



# Quarterly Report to the OPUC

For quarter ending June 30, 2009

## Planned Activities – Q3 2009

- Begin full meter deployment in Salem MRO (August 2009) and continue deployment in Beaverton MRO
- Complete approximately 130,000 additional smart meter installations
- Complete cut-over to production servers for host system
- Continue build out and testing of meter data consolidator (MDC) server/storage
- Complete testing and implementation of version 1.7.1 of host system software
- Complete migration and installation of Sensus system into production
- Go live with On-Cycle Billing Phase 1
- Initiate rollover of manually read meter routes to network reads
- Initiate development of reports for Lost Revenue Protection project to target leads for the Energy Recovery Unit
- Commission 13 TGBs; begin construction of 4 additional TGBs
- Open new crossdock location in Salem in addition to present
- Continue to work with vendor on network security and establish schedule for remediation of findings
- Install test TGB and meters for security encryption testing
- Develop and test software for Interval Data Usage (IDU)
- Purchase and begin installation of IDU infrastructure platform
- Submit proposal to USDOE for smart grid stimulus package funding (Smart Grid Investment Grant)
- Complete testing and deploy CIS interface to ServiceLink into production.
- Sign contract to purchase the Energy Prism web-based software for IDES project
- Conduct kick-off meetings and begin Energy Prism Configuration Workbook sessions
- Continue development and testing of the Energy Assistance functionality for Connects project
- Begin development and testing of the Payment Extension and Payment Redistribution functionalities for Connects
- Develop requirements for the OPUC mandated automated phone call related to remote disconnect for nonpayment

## Additional Notes and Updates

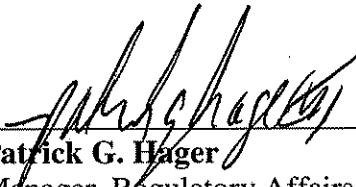
- Training date for CAPO and associated organizations is scheduled for the 2<sup>nd</sup> quarter of 2010.
- PGE is participating in the National Institute of Standards and Training (NIST) Interoperability home-to-grid working group supporting NIST's responsibilities under the Energy Independence and 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, PGE's work with EPRI has encouraged them to launch a project in 2009 or early 2010 on defining a standard communications interface at the appliance.
- OPUC approved Schedule 77 - Advice No. 08-22, for firm load reduction from large customers, greater than 1 MW of demand. Work is underway to develop enrollment materials for the October 2009 enrollment window. The agreement term starts January 1, 2010.
- A demand response aggregator has been selected to provide up to 25 MW of peaking capacity from PGE's commercial and light industrial customers. An agreement has been drafted, and a request is being made to OPUC Staff regarding inclusion of the power costs in the AUT filing.
- Approval of the Critical Peak Pricing tariff has been delayed until September 2009 by OPUC Staff subject to questions by ODOE Staff. PGE is working with both parties to clarify any misconceptions and does not expect that implementation with customers will be delayed.

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 July 31, 2009 caused the following: **PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT QUARTERLY STATUS UPDATE Q2-2009** 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 31<sup>st</sup> day of July, 2009.

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

**eDockets**

**Docket Summary**

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**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

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<b>W=Waive Paper service</b>	<b>C=Confidential HC=Highly Confidential</b>	<b>Sort by Last Name      Sort by Company Name</b>
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