



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

May 12, 2011

**Via Email and US Mail**

Vikie Bailey-Goggins  
Administrator  
550 Capitol Street, N.E., Ste 215  
PO Box 2148  
Salem, OR 97301-2148

**RE: UE-189 AMI Project Quarterly Status Update – Q1-2011**

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 me 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,

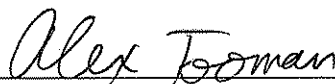
Alex Tooman  
Project Manager, Regulatory Affairs

cc: UE 189 Service List  
John Sullivan  
Eric Spack  
Margo Bryant

## CERTIFICATE OF SERVICE

I hereby certify that I have this day caused the foregoing **AMI Project Quarterly Status Update (Q1 – 2011)** 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 for OPUC Docket No. **UE 189**.

DATED at Portland, Oregon, this 12th day of May 2011.



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Alex Tooman, Project Manager  
Rates & Regulatory Affairs  
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**SERVICE LIST**  
**OPUC DOCKET # UE 189**  
**May 12, 2011**

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# Quarterly Report to the OPUC

For quarter ending March 31, 2011

## 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	825,476	0.20%	802,056	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*
<b>Capital (Tariff) Costs</b>					
Meters Jobs	\$ 107,719	\$84	\$103,846	\$569	\$(3,304)
Network Jobs	5,507	25	5,290	913	697
IT Equip. & License Jobs	14,161	824	22,173	3,110	11,122
Vehicles	0	0	99	0	99
<b>Capital Sub-Total (Unloaded)</b>	127,387	932	131,407	4,593	8,613
Capital Loadings	4,777	326	8,006	1,018	4,247
<b>Total Capital (Loaded)</b>	\$132,164	\$1,258	\$139,413	\$5,611	\$12,860
<b>Total O&amp;M (Loaded)</b>	\$12,000	\$418	\$10,552	\$848	(600)
<b>Total Capital and O&amp;M (Loaded Costs)</b>	\$144,164	\$1,677	\$149,966	\$6,459	\$12,261

**Cost and Schedule Factors – Current Quarter:** All remaining IT development work is projected to be completed 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	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.
▪ Complete project	06/30/2011	Effectively complete all activities associated with process improvements and original Sensus contract (e.g., final UTC meters still to be exchanged).

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 <sup>1</sup>	06/2011	72	96,277	629
Meter Base Repairs	06/2011	12	392	(60)
<b>Meters – Total</b>		<b>84</b>	<b>103,846</b>	<b>569</b>
Tower Site Deployment (Closed)	12/2010	25	5,290	913

<sup>1</sup> Full meter deployment was completed in August 2010; remaining 4,500 uninstalled meters are on hold and expected to be installed in Q2 2011.



# Quarterly Report to the OPUC

For quarter ending March 31, 2011

Towers – Total		25	5,290	913
Project Job Status	Due Date	Actual Capital Cost This Quarter*	Actual Capital Cost to Date*	Remaining Capital Cost to Complete*
Project Office	06/2011	10	665	(31)
Automated Meter Exchange (AME) (Closed)	06/2008	0	921	0
IT Infrastructure Support	06/2011	103	5,011	68
Connects	06/2011	7	192	(17)
On Cycle Billing (move-in/move-out)	05/2011	1	164	44
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) (Closed)	01/2011	21	264	(22)
Smart Meter Installation & Maintenance (SMIM)	06/2011	15	143	60
IT AMI Software	06/2011	614	12,399	1,722
Information-Driven Energy Savings <sup>2</sup> (IDES)	06/2011	24	487	253
Customer-Selected Due Date (CSDD) <sup>3</sup> (Closed)	01/2011	8	73	17
Host System Installation – Full Deployment	04/2011	21	597	419
Interval Data Storage & Usage (IDU) (Closed)	11/2009	0	416	0
Work Orders (Closed)	04/2010	0	257	0
Contingencies	06/2011	0	0	600
<b>IT Equipment &amp; Licenses – Total</b>		<b>824</b>	<b>22,173</b>	<b>3,110</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 – Q1 2011

### Meter Deployment

- Exchanged approximately 800 of 2,000 non-communicating meters; balance will be completed in Q2 2011. Meanwhile, these meters are being read manually.

### Network

- Began lab testing of FlexNet Remote Portals (FRPs) for a pilot that will test their ability to improve communications with meters in challenging geographic locations
- Began testing FlexNet host system version 2.2.1; anticipate placing version 2.2.1 into production in Q2, 2011
- Completed additional security hardening of the tower Gateway Base Station equipment
- Returned approximately 12,000 meters to manual reads due to demand reset issues

### Business Processes

- Began launch of customer-selected due data billing capability; rollout process will extend into Q2 2011 (CSDD project)
- Completed review with OPUC concerning late fee tariff (CSDD project)
- Implemented high/low usage automation (LRP project)

### Project Office

- Completed transition of AMI development team into IT Applications group
- Initiated project closure activities and transition to operations

<sup>2</sup> IDES project has been re-named *EnergyTracker*.

<sup>3</sup> CSDD project has been re-named Preferred Due Date (PDD).



# Quarterly Report to the OPUC

For quarter ending March 31, 2011

## AMI Implementation: Planned Activities – Q2 2011

### Meter Deployment

- Install approximately 800 4S (config 02) demand meters pending successful testing of the collection of demand readings over the network
- Exchange remaining approximately 1,200 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
- Continue testing security functionality delivered in FlexNet host system version 2.2.1
- Complete upgrade to host system version 2.2.1
- Resolve demand re-set issue and return approximately 12,000 meters to network reads

### 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)
- Complete rollout of customer-selected due data billing capability (CSDD project)
- Implement features to allow Coordinators to create work orders in the new portal and automatically update all required systems (SMIM project)
- Implement move in/move out timestamp (On-Cycle Billing project)
- Complete requirements and move into code development phases (IDU project)

### Project Office

- Continue working with Sensus to ensure completion of remaining contractual deliverables
- Complete project closure activities and transition to operations

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

- Continued participation in SGIP, NIST Interoperability home-to-grid working group and EPRI Appliance Market Transformation Project. At the request of NIST, Q1 started the work of combining the USNAP and EPRI specs into a single specification with the goal of moving the specification into a national standards organization like IEEE or NEMA.
- Created data feeds for customer billing information and interval data (IDES project)
- Integrated Bill History/Bill Analysis tools into [portlandgeneral.com](http://portlandgeneral.com) for residential and business customers (IDES project); will be placed into production during Q2

## Customer & System Benefits (Conditions): Planned Activities – Q2 2011

- Q2 should conclude with the EPRI/USNAP spec being forward to a standards organization to create a single national specification. A multi-vendor demonstration of the specification is planned in Alabama on May 4.
- Place Bill History/Bill Analysis tools into production on [portlandgeneral.com](http://portlandgeneral.com) website for residential and business customers (IDES project)
- Provide *EnergyTracker* update at May low income agency meeting (IDES project)
- Roll out *EnergyTracker* customer online presentation program (IDES project)

## Additional Notes and Updates

- None.

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