



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

October 31, 2008

**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 – 2008-Q3**

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 September 30, 2008.

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



# Quarterly Report to the OPUC

For quarter ending September 30, 2008

## 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 | # of AMI Meters Deployed to Date | # of Meters Read by Network for Billing | JMR Routes Remaining with PGE | JMR Routes Remaining with NNG |
|--------------------|-------------------------|----------------------------------|---|-------------------------------|-------------------------------|
| August 2005        | September 2010          | 8,826                            | 0                                       | 1,691                         | 568                           |

| Project Cost Summary<br>* Unloaded and Rounded to Nearest Thousand | AMI Project Budget*   | Actual Cost to Date* | Remaining Cost to Complete* |
|--|-----------------------|----------------------|-----------------------------|
| Meters   | \$ 103,305,000        | \$ 2,905,000         | \$ 100,400,000              |
| IT   | 8,376,000             | 980,000              | 7,396,000                   |
| Network  | 7,151,000             | 1,676,000            | 5,475,000                   |
| Business Processes   | 5,894,000             | 966,000              | 4,928,000                   |
| Project Management   | 7,092,000             | 1,006,000            | 6,086,000                   |
| Capital Sub-total  | 126,362,000           | 7,049,000            | 119,313,000                 |
| O&M Total  | 5,456,000             | 484,000              | 4,972,000                   |
| <b>Total Unloaded Cost</b>   | <b>\$131,818,000</b>  | <b>\$7,533,000</b>   | <b>\$ 124,285,000</b>       |
| Loadings   | 7,675,000             | 1,600,000            | 6,075,000                   |
| <b>Total Loaded Costs</b>  | <b>\$ 139,493,000</b> | <b>\$ 9,133,000</b>  | <b>\$ 130,360,000</b>       |

**Variance Explanation:** This report contains only the portion of the AMI project budget and cost tracked under the AMI Tariff. In Q3 2008, AMI budgets were revised due to reorganization of business process jobs. Due to the business process reorganization, the Remote Connect/Disconnect job was renamed to Connects. The Move-In/Move-Out job was eliminated as its budget and tasks were moved into the Connects job. In addition a new job, Work Orders for Business Process Jobs, was created. Summary of cost changes as a result of reorganization follows:

- Meters: Current meter pricing resulted in \$2,957,000 reduction from previous quarterly report
- IT: Addition of IT Architect, Business Analyst and End-to-End Testing detail resulted in additional \$474,000 to previous report
- Network: Addition of Tower Project Manager and increase in NDO labor for exceptions processing resulted in additional \$902,000 to previous report
- Business Processes: Addition of IT resources to complete development resulted in additional \$1,982,000 to previous report
- Project Management: Movement of capital labor to meter installation resulted in \$153,000 reduction from previous report.
- Total Loaded Cost: Overall increase in unloaded cost of \$248,000 and loaded cost of \$375,000 in AMI tariff period. No change to overall AMI budget as there were under-runs prior to AMI tariff period.

| 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    | 12/31/2008 | Delays in meter supply and subsequent deployment will result in completion of testing being moved into the first quarter of 2009. When the completion date is confirmed, PGE will notify OPUC Staff. |
| ▪ Begin Full Meter Deployment           | 01/05/2009 | Preliminary month-to-month deployment schedule prepared. Delay in completion of SAT will result in a corresponding delay in full meter deployment.   |
| ▪ Complete RF Network Installation      | 12/31/2009 | RF propagation study and tower location analyses completed; five SAT tower locations constructed and commissioned  |
| ▪ Complete Full Meter Deployment        | 09/12/2010 | To be followed by up to 6-month system optimization process  |



# Quarterly Report to the OPUC

For quarter ending September 30, 2008

| Project Job Status                             | Due Date | Budget *           |                  | Costs to Date *  |                |
|--|----------|--------------------|------------------|------------------|----------------|
|  |          | Capital            | O&M              | Capital          | O&M            |
| Meter Installation – SAT                       | 09/2008  | 5,976,000          | 0                | 2,905,000        | 0              |
| Meter Installation – Full Deployment           | 09/2010  | 97,329,000         | 0                | 0                | 0              |
| <i>Meters Subtotals – Capital / O&amp;M</i>    |          | <i>103,305,000</i> | <i>0</i>         | <i>2,905,000</i> | <i>0</i>       |
| <b>Meters – Total</b>                          |          | <b>103,305,000</b> |                  | <b>2,905,000</b> |                |
| IT Infrastructure Support                      | 09/2010  | 3,941,000          | 646,000          | 454,000          | 0              |
| MDC – General AMI Requirements                 | 01/2010  | 0                  | 42,000           | 0                | 12,000         |
| MDC – CS SAT Testing                           | 12/2008  | 0                  | 34,000           | 0                | 3,000          |
| IT AMI Software                                | 06/2010  | 2,432,000          | 7,000            | 308,000          | 4,000          |
| Interval Data Storage & Usage                  | 11/2009  | 1,274,000          | 0                | 199,000          | 0              |
| <i>IT – Subtotals – Capital / O&amp;M</i>      |          | <i>7,647,000</i>   | <i>729,000</i>   | <i>961,000</i>   | <i>19,000</i>  |
| <b>IT – Total</b>                              |          | <b>8,376,000</b>   |                  | <b>980,000</b>   |                |
| Host System Installation – SAT                 | 05/2008  | 594,000            | 0                | 500,000          | 3,000          |
| Host System Installation – Full Deployment     | 12/2008  | 1,247,000          | 0                | 0                | 0              |
| Tower Site Deployment                          | 12/2009  | 4,713,000          | 597,000          | 1,173,000        | 0              |
| <i>Network – Subtotals – Capital / O&amp;M</i> |          | <i>6,554,000</i>   | <i>597,000</i>   | <i>1,673,000</i> | <i>3,000</i>   |
| <b>Network – Total</b>                         |          | <b>7,151,000</b>   |                  | <b>1,676,000</b> |                |
| Automated Meter Exchange                       | 11/2008  | 952,000            | 6,000            | 911,000          | 1,000          |
| On Cycle Billing                               | 01/2009  | 330,000            | 61,000           | 7,000            | 15,000         |
| Routine Meter Exchange                         | 10/2009  | 504,000            | 180,000          | 0                | 7,000          |
| Connects                                       | 05/2010  | 1,036,000          | 265,000          | 0                | 0              |
| Customer-Selected Due Date                     | TBD      | 521,000            | 100,000          | 0                | 0              |
| Work Orders for Business Process Jobs          | 12/2009  | 984,000            | 177,000          | 0                | 0              |
| Lost Revenue Protection                        | TBD      | 168,000            | 96,000           | 6,000            | 0              |
| Meter Reading Process Redesign                 | 09/2009  | 0                  | 30,000           | 0                | 0              |
| Information-Driven Energy Savings              | 10/2009  | 408,000            | 76,000           | 19,000           | 0              |
| <i>Bus Processes – Subtotals Cap / O&amp;M</i> |          | <i>4,903,000</i>   | <i>991,000</i>   | <i>943,000</i>   | <i>23,000</i>  |
| <b>Business Processes – Total</b>              |          | <b>5,894,000</b>   |                  | <b>966,000</b>   |                |
| Project Office                                 | 09/2010  | 607,000            | 3,097,000        | 567,000          | 439,000        |
| Contingencies                                  | 09/2010  | 3,346,000          | 42,000           | 0                | 0              |
| <i>Project Mgmt – Subtotals Cap / O&amp;M</i>  |          | <i>3,953,000</i>   | <i>3,139,000</i> | <i>567,000</i>   | <i>439,000</i> |
| <b>Project Management – Total</b>              |          | <b>7,092,000</b>   |                  | <b>1,006,000</b> |                |

\* Unloaded, rounded to nearest thousand



# Quarterly Report to the OPUC

For quarter ending September 30, 2008

## Implementation Activities – Q2 2008

### Previously Planned Activities

- Completed work with OPUC on revisions to Periodic and Sample Testing requirements
- Continued meter deployment in SAT test areas: SE Portland, Downtown Portland/West Hills and Banks/Gales Creek; 8,826 meters deployed in SAT areas as of 9/30/2008
- Initiated AMI meter deployment for new construction and routine meter exchange work throughout PGE's service territory; approximately 2,400 AMI meters installed during routine work through 9/30/2008
- Completed construction/commissioning of 5th and final RF tower (collector) for SAT
- Initiated permitting and construction activity on first set of RF tower locations for full deployment
- Installed and began testing version 1.6 FlexNet host system software
- Communicated to OPUC about changes in business process project plans; plans to be provided in the 4<sup>th</sup> quarter 2008.
- Conducted AMI meter training for line departments, field connection, service & design personnel
- Completed long-range staffing plan for Meter Reading and Field Collections
- Prepared amendment to JMR contract with NWN to cover operational issues during AMI deployment
- Conducted second annual Career Fair for employee groups whose positions are affected by AMI implementation; nearly 40 employees have transited to other opportunities within PGE since January 2008
- Conducted meeting with Low Income Agencies to discuss AMI efforts

### Additional Activities Undertaken

- Selected qualified electrical contractor to be on call when customer-owned equipment requires repairs before meter exchange can be completed
- Formed Field Response Team to address meter exchanges the contractor is unable to complete and to respond to other issues in the field
- Continued work on troubleshooting process for non-communicating meters
- Continued work on meter reading staffing plan for full deployment period

## Planned Activities – Q4 2008

- Complete meter deployment in SAT test areas
- Continue SAT testing
- Finalize end-to-end test plan
- Complete construction & commissioning of an additional five (5) RF towers in preparation for full deployment
- Submit revised business process project plans to OPUC
- Continue monthly training for Customer Service personnel
- Complete long-range staffing plan for Meter Reading and Field Collections
- Reach agreement with NWN on coordination and timing of joint metering reading dissolution
- Complete telephone surveys of customers who received new meters during SAT period
- Conduct follow-up meeting with Low Income Agencies to discuss AMI efforts
- Update customer communications approach based on experienced gained during SAT period

## Additional Notes and Updates

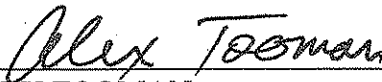
- PGE communicated a change to the December 15, 2008 training date for CAPO and associated organizations; new date is scheduled for the third quarter of 2009.
- PGE issued an RFP for peak demand side capacity from large business customers, which also includes requests for proposals for additional peaking capacity from residential and small business customers.
- PGE is conducting external stakeholder meetings to gather input to the development of an experimental critical peak pricing (CPP) pilot. In the first meeting held on September 24, 2008 PGE presented five types of designs and discussed three of them in detail. At the next meeting, expected to be held in December 2008, PGE will present a proposed design, results of pilots by other companies, and a research plan.

**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 this day caused the foregoing **PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT QUARTERLY STATUS UPDATE 2008 Q3** 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 31st day of October 2008.

  
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ALEX TOOMAN  
On behalf of Portland General Electric Company

**eDockets**

**Docket Summary**

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[eFiling](#)

**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:** 08-245

**Order Signed:** 5/5/2008

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|------------------------------|--|---|--------------------------------------|
| <b>W=Waive Paper service</b> | <b>C=Confidential<br/>HC=Highly Confidential</b>     | <a href="#">Sort by Last Name</a>   | <a href="#">Sort by Company Name</a> |
| <b>W</b>                     | <b>CITIZENS' UTILITY BOARD OF OREGON</b>             |   |                                      |
|                              | OPUC DOCKETS   | 610 SW BROADWAY STE 308<br>PORTLAND OR 97205<br>dockets@oregoncub.org   |                                      |
|                              | ROBERT JENKS (C)                                     | 610 SW BROADWAY STE 308<br>PORTLAND OR 97205<br>bob@oregoncub.org   |                                      |
|                              | <b>COMMUNITY ACTION DIRECTORS OF OREGON</b>          |   |                                      |
|                              | JIM ABRAHAMSON<br>COORDINATOR                        | PO BOX 7964<br>SALEM OR 97301<br>jim@cado-oregon.org  |                                      |
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|                              | S BRADLEY VAN CLEVE                                  | 333 SW TAYLOR - STE 400<br>PORTLAND OR 97204<br>mail@dvclaw.com   |                                      |
| <b>W</b>                     | <b>DEPARTMENT OF JUSTICE</b>                         |   |                                      |
|                              | STEPHANIE S ANDRUS (C)<br>ASSISTANT ATTORNEY GENERAL | REGULATED UTILITY & BUSINESS SECTION<br>1162 COURT ST NE<br>SALEM OR 97301-4096<br>stephanie.andrus@state.or.us |                                      |
| <b>W</b>                     | <b>NORTHWEST NATURAL</b>                             |   |                                      |

|   |   |  |
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| W | <b>OREGON DEPARTMENT OF ENERGY</b><br><br>ROBIN STRAUGHAN (C)                           | 625 MARION ST NE<br>SALEM OR 97301-3742<br>robin.straughan@state.or.us               |
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