

Smart Grid Demonstration Advisory Update



An EPRI Progress Report

June 12, 2009

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The EPRI Smart Grid Demonstration Initiative is a five year collaborative research effort focused on design, implementation, and assessment of field demonstrations to address prevalent challenges with **integrating distributed energy resources** in grid and market operations to create a "Virtual Power Plant."

The newsletter provides periodic updates on the project as well as updates on relevant industry news and events. If you have comments about the newsletter, please contact Matt Wakefield at 865-218-8087, mwakefield@epri.com.

PROJECT UPDATE

EPRI's Smart Grid Demonstration Advisory Meeting June 23rd & 24th, 2009

NOTE: Registering for the hotel DOES NOT register you for the meeting

Please RSVP to your Invitation by Monday June 15th

RSVP is REQUIRED FOR SECURITY ACCESS and a head-count for meals

If you are a member of the smart grid demonstration collaborative or peer review team member and have not received an invitation, please contact Robin Pitts (rpitts@epri.com, 865-218-8057)

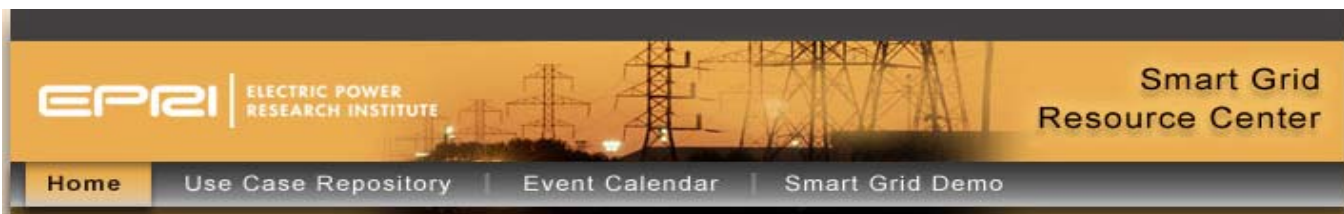
This day and half meeting will include a demo of FirstEnergy's Smart Grid Host-Site project, updates and dialogue on key tasks, deliverables, and industry updates. In addition, this is an opportunity for our funding collaborators to provide feedback to our smart grid team on your highest priority research needs to support your smart grid activities focused on integration of distributed energy resources.

Due to the Smart Grid Advisory meeting occurring in a little over a week, a project update is not included in this newsletter. All presentation material and updates will be made publicly available on the EPRI Smart Grid Resource Center web-site following the meeting.

Visit the EPRI Smart Grid Resource Center & Use Case Repository for Public Updates

www.smartgrid.epri.com

The EPRI Smart Grid Resource Center is a public smart grid collaborative resource, The scope of this resource will be expanded over the next year and we plan to coordinate with the DOE Smart Grid Clearinghouse effort to avoid duplication of efforts.



KEY EPRI SMART GRID DATES

Regional Workshops (June 29, July 29, August 25)

Workshops are an opportunity for stakeholders to provide input on regional drivers, challenges and activities for integration of distributed energy resources (DER). The results of this effort will be used to design/refine smart grid demonstrations to support end-to-end integration of distributed energy resources in power system operations and planning

The workshops are planned as follows:

- West region – Sacramento, CA – May 15th (COMPLETE)
- Northeast region – New York, June 29th
- Midwest and International regions – Calgary, Canada, July 29th
- South region – Kansas City, MO August 25th

To register, please email your name, title, company and contact information to Ashley Eldredge (aeldredge@epri.com) and note which regional workshop you would like to attend. Please register at least two weeks in advance.

Smart Grid Demonstration Host-Site Peer Review Web-Cast(s) (Week of July 13th)

The EPRI Technical Review team is reviewing two host-site projects for the next round of smart grid demonstration selections. For projects that meet the technical requirements of a Host-Site, we will have peer review web-casts the week of July 13th to share information about projects and also get your feedback.

Grid Interop 2009, Nov 17-19 in Denver – EPRI Smart Grid Demonstration Panel Session (proposed)

EPRI's smart grid collaborative now includes 19 members. The strength of this collaborative is evident in the work you are doing individually and how we are able to leverage it not only within our membership, but also within the industry as a whole. The smart grid demonstration is developing an abstract to submit to Grid Interop focused on interoperability aspects of the smart grid demo activities of our members and how this will contribute to the industry as a whole. Please consider sharing your smart grid activities as part of this effort focused on interoperability.

We will discuss this opportunity at the smart grid advisory meeting, but please feel free to contact Stephanie Hamilton directly with any questions. (Stephanie Hamilton, shamilton@epri.com, 307-460-3226)

Fall/Winter Smart Grid Advisory Meeting Hosted by PNM in Albuquerque NM (Oct. or Jan.)

We are planning our next Smart Grid Advisory meeting that will be hosted by PNM Resources in Albuquerque, NM. Due to today's economic conditions, we understand everyone can't travel three times a year to all the advisory meeting. At the advisory meeting NJ, we will ask your preference about preferred dates for the next meeting. The tentative date for the next meeting is October 12th & 13th (just following the International Balloon Festival - <http://www.balloonfiesta.com/>). But if we find too many members won't be able to attend an alternative date is January 19th & 20th. If you would like to provide feedback immediately, just email Matt (mwakefield@epri.com).

EPRI Power Delivery & Utilization Area Advisory Council Meeting

When/Where: August 31- September 2, 2009, Chicago, IL

Link: <http://guest.cvent.com/EVENTS/info/summary.aspx?e=75c3f45c-7ad0-4bdc-8eb4-69536544b401>

KEY INDUSTRY DATES

Industry Smart Grid Related Events are Listed on EPRI's Smart Grid Resource Center

www.smartgrid.epri.com/calendar.html

INDUSTRY NEWS

Smart Grid Industry News

Please share your smart grid story and we will post it in this newsletter

Cisco, Duke Energy to build Energy Internet

greentelecomlive, June 10th, 2009

<http://www.greentelecomlive.com/2009/06/10/cisco-duke-energy-to-build-energy-internet/>

Building the smart grid

Economist.com, June 4th, 2009

http://www.economist.com/science/tq/displaystory.cfm?story_id=13725843

Demand Response Data Ability System (DADS) Preliminary Report

The goal of the DADS is to collect demand response event information to measure the ongoing influence of demand response on reliability and provide a basis for projecting both dispatchable and non-dispatchable (price-driven) demand response towards planning (demand reduction) and operational reliability. June 3rd, 2009

<http://www.nerc.com/filez/drddf.html>

SEPA Unveils Its Top Ten Utility Solar Integration Rankings for 2008

Solar Electric Power Association (SEPA), May 28, 2009.

<http://www.solarelectricpower.org/docs/SEPA%20Utility%20Solar%20Integration%20Rankings-2008.Public%20release.pdf>

Eurelectric Report Sets Out the State Of Play on Smart Grids

"We call upon governments and regulatory authorities to work together towards an optimised business model for all parts of the value chain, from generators to consumers, so as to minimise total costs". The report is based on input from some 30 major distribution companies from 16 European countries. May 20, 2009

<http://www.eurelectric.org/PublicDoc.asp?ID=58477>

Energized about first Google PowerMeter partners

Includes Wisconsin Public Service Corporation (one of our smart grid collaborators), May 19, 2009

<http://googleblog.blogspot.com/2009/05/energized-about-our-first-google.html>,

Standards News

GridWise Architecture Council Met on May 21-22 to Advance Interoperability

The GridWise Architecture Council (GWAC) met on May 21 and 22 to discuss next steps in advancing interoperability in the electric power shareholder community. The GWAC was formed by the US DOE to promote and enable interoperability and is sometimes dubbed a think tank of experts from all aspects of the power industry. The GWAC consists of a group of balanced and respected representation covering, end-to-end, the electricity supply chain. The Council was formed in 2004 through a call for, and selection of, 13 volunteers whose membership renewal is reviewed every two years. To learn more about GWAC, its mission and membership, visit Gridweseac.org

Dr. George Arnold and his staff from NIST joined the GWAC meeting which is an open meeting. Dr. Arnold described the status and the direction NIST will take to move toward finalizing the Interim Roadmap that was presented at the two-day workshop (May 19-20) held in Washington DC with over 600 in attendance.

A key component will be the formation of a high-level Advisory Panel to drive more quickly the creation and development of open standards and greater support for existing standards development organizations. Dr. Arnold expects this panel to be established by September 2009. The objective of the Panel is to bring about continuing future releases of standards similar to the 16 standards recently released and announced as Revision 1.

As announced at the meeting, the GWAC will be releasing shortly two papers on the financial benefits of interoperability and the environmental benefits of interoperability. Both rely on previous research and have been compiled to support business cases for undertaking projects that improve and enhance interoperability. We will be advising you in this newsletter of the publication and release of these important documents.

GWAC's Third Annual Grid-InterOp conference will be held in Denver in November. The call for papers will be going out shortly. We will be advising you in this newsletter of the timing of the call for papers. Please plan to participate.

The GWAC meeting was well attended by others beyond the GWAC. Approximately 40 people were there. It is an eventful and informative session. It is an open meeting so those wishing to attend, please watch this newsletter for announcements of future meetings and plan to attend.

Technology Trends

The biggest challenge for green telecoms – exponential traffic growth

greentelecomlive, June 10, 2009

<http://www.greentelecomlive.com/2009/06/10/the-biggest-challenge-for-green-telecoms-exponential-traffic-growth/>

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