

*GridWise Architecture Council \* Meeting Minutes – February 11, 2011, Washington, DC*

### Members

Erich Gunther, EnerNex Corporation  
Ron Ambrosio, IBM T.J. Watson Research Center  
Robert Burke, ISO New England  
Rik Drummond, Drummond Group  
Tony Giroti, BRIDGE Energy Group, Inc.  
Amr Ibrahim, Ohio Consumer Council  
Alex Levinson, Lockheed Martin  
Wayne Longcore, Consumers Energy  
Tracy Markie, Engenuity  
Robert Saint, NRECA  
Tom Sloan, Kansas State Legislator  
Ken Wacks, consultant to Sensus Metering Systems Inc.

### Support – Pacific Northwest National Laboratory (PNNL)

Ron Melton, GWAC Administrator

### **Call to Order**

Erich Gunter called meeting to order at 9:00 a.m.

### **Proprietary Information Notice**

The members and guests were reminded of the proprietary information disclosure policy according to the bylaws.

### **Agenda Review**

No items were added to the agenda during the review.

### **Administrative Business**

#### *Ron Melton, GWAC Administrator*

Thomas Sloan motioned to accept the minutes from the previous meeting on January 26, 2011 with the suggested changes from Ken Wacks. Amr Ibrahim seconded the motion; all present Council members were in favor to accept the motion of the January 26, 2010 minutes with corrections.

Ron Melton reviewed the 2011 calendar, upcoming meetings and outreach events.

Todd Halter, PNNL  
Ron Jarnagin, PNNL  
Sherry Kowalski, PNNL

### Speakers and Guests

Anto Budiardjo, Clasma Events  
William Cloutier, DTE Energy Company  
Ray Palmer, FERC  
James Mater, QualityLogic

### Members – not present

David Hardin, Invensys Process Systems

### Members Emeritus

Richard Schomberg, EDF

## **Introductory Presentations by Newly Elected GWAC Members**

### ***H. Ward Camp, Landis + Gyr North America***

Ward Camp shared that his interest in the GridWise Architecture Council is to assist with the Council's long term goals in creating a smooth transition without dislocating the market to keep the smart grid moving forward.

Ward Camp is vice president of Regulatory and Energy Policy at Landis+Gyr North America, where he oversees regulatory and legislative matters. His focus spans the regulatory and policy aspects of changing electricity standards pertaining to smart metering and disaggregated electricity markets. For the first 17 years of his career he practiced law representing electric utilities, gas distribution companies and intrastate and interstate gas pipelines. During the last 13 years he has served as an executive dealing with advanced metering regulatory issues.

### ***Tony Giroti, BRIDGE Energy Group, Inc.***

Tony shared that he would like the assist GWAC to engage with more organizations and stakeholders thus helping to create a stronger relationship and not a "them vs. us" relationship. He feels the best way to accomplish this goal is with GWAC messaging, case studies, practical examples, etc. Secondly, Tony would like to discuss and explore ways we can empower legislators and regulators with cost-benefit or ROI information?

Tony Giroti is the Chairman and CEO of BRIDGE Energy Group, the Trusted Advisor and Implementation Partner in providing Smart Grid integration and Utility solutions to the Energy Industry. Mr. Giroti has extensive expertise in Power Systems Engineering, Enterprise Architecture, Application Integration and Business Intelligence. In addition, Mr. Giroti has over 23 years of experience in managing Information Technology products, platforms and applications. Most recently, he has been leading various Smart Grid and Demand Response initiatives with IOUs and T&D operators. He has also been involved in developing Smart Grid roadmap, Integration strategy and in launching Center of Excellence for Smart Grid, Integration and Distribution Automation. Previously, Mr. Giroti worked in the Telecom and Financial services industry as CIO and CTO, developing enterprise platforms and running large Business and IT transformation programs.

## **Meeting Introduction - GWAC Outreach**

### ***Ron Melton, GWAC Administrator & Erich Gunther, GWAC Chairman***

Ron Melton introduced the theme "Outreach" for the February's meeting. The GWAC is a relatively small council with a large mission to articulate the goal of interoperability across the system and industry. The Council needs leverage for each member's strengths to create work products that will disseminate the Councils architecture concepts to commissioners, legislators', and organizations that truly make a difference. Ron Melton continued asking if there are specific tactical things the Council should be doing.

Erich Gunther suggested that we reevaluate, investigate the council's visibility and mission and reengage that vision to the community. Need a good simple discussion of what interoperability is. Smart grid consumer collaborative, demand response coalition, etc., to endorse this material. The simple explanation of the benefits of interoperability as they pertain to smart grid. We then leverage the dissemination channels of all of these other organizations. This will be a clean, crisp message.

Ray Palmer shared that from a regulatory perspective he felt the Smart grid was hyped; now we may be entering the valley of despair. For example, getting costs approved by regulators. Then we should come out of the valley. Interoperability is a tough concept – the more it can be discussed in pragmatic and result oriented ways the better. For example, breaking the grip of proprietary system – as George Arnold says. Cyber security as well.

How to avoid cyber security killing the smart grid? In this discussion there seems to be agreement that open standards are better than proprietary because of the opportunity for examination of the work by a broader group of experts. Regulators are often driven by fear – consumer revolt, rejection by governor or legislature, etc.

Article by Scott Hempling – monthly essay this month – what are potential nuclear problems of today (referring to the cost-overruns of nuclear industry in the 70's)? A lot of smart grid hype and nobody can tell us what the cost is.

## **Discussion of Grid Interop 2010 / Grid-Interop 2011 Planning and Theme**

*Ron Jarnagin, PNNL*

Ron Jarnagin provided a recap of the successes and areas that need to be improved of Grid-Interop 2010.

Grid-Interop attendance has somewhat stagnated. CLASMA has been trying to figure out the reason why. Perhaps more discussion of the implementation experience might make it more interesting.

Making the mission clearer may help. Explaining how it fits in to the overall ecosystem of smart grid related meetings and conferences.

Case studies – we've had trouble getting these presentations in the past. Hopefully there is more going on now and we will be able to get good presentations.

- How to engage the vendors?
- The content is very technical.
- The audience does not include those specifying or making purchase decisions.
- A plugfest.
- Driven by specific objectives.
- At the meeting.

Leverage the roots – the Interoperability Context Setting Framework. Would need to set up a project to pull this off. Business operating domain – price signal, market signal, etc.

- Information interoperability
- Technical interoperability

Driven by interoperability between domains. What happens within the domains not of specific interest?

DOE would like some meetings that feature SGIG and SG Demo projects. For Grid-Interop identify projects that have something specific to talk about. Perhaps more focus on demo projects since they are doing more exploratory work. Focus on successes, etc.

Moving forward, the Council was asked to determine the message and information they wish to convey in Grid-Interop 2011. The following are some of the ideas that were discussed.

#### Grid-Interop 2011 Ideas:

- Webinar sessions that regulators, etc. would be invited to participate in. (Also could be done outside of Grid-Interop.)
- Theme – GWAC driven, Anto will create one of the GWAC doesn't.
- Stay focused – practitioner focused but historically on lower levels of the GWAC stack. How do we introduce some practitioner level discussion on the upper levels too?
- Use event to roll-out and actualize the smart grid vision? Use the event to carry the message forward.
- Emphasize the successes – practical experiences.
- Make the tracks relationship to the GWAC stack more visible.
- Could use the IMM or DOE metrics from 2008 workshop.
- “Implementing Interoperability”.

Ron Jarnagin introduced Todd Halter, from PNNL as the Grid-Interop planning chair. Todd Halter, Anto Budiardjo and Ron Melton will be attending a Grid-Interop planning meeting that is scheduled for March 1-2, 2011 in Phoenix, AZ.

## Lunch Speaker

### *Eric Lightner, Department of Energy*

State Grid China has agreed to participate in SGIP in a big way. This should give some momentum and international credibility to the effort. – Breaking news!

Eric has been working a lot on expanding the world wide implementation of smart grid. IEA topic focused implementing agreements – Eric has been participating in electricity networks (ENARD). The groups are established for 5 year periods. The group will probably sunset and be replaced by one on smart grid. IEA is an NGO funded by the member countries. The smart grid implementing agreement should launch in April. At that point projects will be identified that participating countries agree to engage in. One will be a smart grid “inventory” that will be used to identify opportunities. Standards will be another topic. Others will be case studies, a common methodology for business models, cost-benefit analysis, etc. that will allow for comparisons of projects in different countries.

- NSTC committee – working with the policy subcommittee chaired by Pat Hoffman and George Arnold. There will be a research component and other recommendations that can be used to drive efforts forward.
- Consumer education – an effort to define needs for:
  - General consumer – what could the government do to educate the general public?
    - K-12 education
  - Industry – regulatory staff side in particular. Educating the decision makers
  - Convening focus groups to identify the needs. Brainstorming on ways to respond to the needs. Two focus group meetings held with a couple of more over the next month.
    - What are the messages – areas of needed education, target audience, etc.?
    - What are the most effective mechanisms for delivering the message?

- Smart grid system report – the report goes to the committee that requested it.
- New congress – some discussion of reverting to FY08 budgets. \$28M vs. proposed \$36M. Core research programs should be ok, but new efforts would not be started. The industry may have become a bit complacent will all the SGIG and related money in play.
- DOE resources that can help promote the work of the council
  - smartgrid.gov
    - Federal activities
    - SGIG and Demo projects – status information
    - DOE / federal government focused
  - Smart grid clearinghouse – more industry focused. Will be cross linked to smartgrid.gov

## **GWAC Interoperability Constitution Re-socialization Status**

*Ron Jarnagin, PNNL*

Ron Jarnagin provided an update on the Interoperability Constitution re-socialization.

The Council and group discussed common and uniform policy.

The subgroup will continue their work with the objective of wrapping this up at the face-to-face meeting in April.

Ron Jarnagin will circulate the antiquated outline and pointers to smart grid vision reference documents.

## **SmartGrid Manifesto Workshop**

*Ron Jarnagin, PNNL*

- GWAC – vision of interoperability of the smart grid within a holistic vision of smart grid.
- What is this vision and goal we are working towards?
- The GWAC stack layers are a bit too theoretical without some goals in mind.
- What is the vision and true model of the future of smart grid?

## **Engaging NERC**

*Ron Melton, GWAC Administrator & Amr Ibrahim, Ohio Consumer Council*

Need to develop a trusted strategic partner relationship with FERC and NERC – how to do this?

Amr provided background on the motivation for this engagement.

## **Adjourn**

Robert Burke motioned to adjourn the meeting, Amr Ibrahim seconded the motion. All Council members were in favor and the meeting adjourned at 11:53 am.