

## Meeting Minutes April 24, 2012

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### *Members*

Ron Ambrosio, IBM T.J. Watson Research Center  
Robert Burke, ISO New England  
Ward Camp, Landis + Gyr  
Rik Drummond, Drummond Group  
Erich Gunther, EnerNex, LLC  
Alex Levinson, Lockheed Martin  
Bob Saint, NRECA  
Tom Sloan, Kansas State Legislator  
Ken Wacks, Consultant to Sensus Metering Systems Inc.

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

Ron Melton, PNNL & GWAC Administrator  
Todd Halter, PNNL  
Sherry Kowalski, PNNL

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### *Speakers and Guests*

Daniel Livengood PhD, MIT  
Jeff Lamoree, EnerNex. LLC  
Doug Houseman, EnerNex, LLC  
Leonard Tillman, Balch & Bingham LLP

### *Members – not present*

Mark Knight, KEMA  
Tony Giroti, Bridge Energy Group, Inc.  
Tracy Markie, Engenuity  
Paul De Martini, Newport Consulting Group

### *Members Emeritus*

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## Proprietary Information Notice

Ron Melton read the proprietary information disclosure policy according to the bylaws to the members and guests.

## Administrative Business

### *Erich Gunther*

Erich Gunther called the meeting to order at 10:00 a.m.

Ron Melton reviewed the agenda, discussed the changes, and asked for any additions.

## The Future of GWAC's Budget

**Ron Melton, PNNL & GWAC Administrator**

Next year, Office of Energy will be starting the process of a grid hub which includes a variety of new approaches of topical areas. Congress has agreed with the concept of the new hub, but has not allotted funds for the hub. To get the grid hub off the ground, the Office of Energy is pulling 30% of funds from research and development. Due to the change, the GridWise Architecture Council's GWAC budget will be significantly smaller in 2013. The GridWise Architecture Council is an advisory committee to the DOE, and is able to continue without DOE funding as long as it continues to be relevant and finds ways to generate income to support its efforts.

Discussion continued regarding funding for the Smart Grid Interoperability Model (SGIMM), Smart Grid Investment Grant (SGIG) Survey, and the Education Outreach Program. Doug Houseman suggested working with IEEE on the education outreach project.

The council continued discussion on ways the GridWise Architecture Council can be more relevant and used by the DOE. The DOE fundamentally cares about positive impact and that the things they support make a positive impact that solidifies the need for GWAC metrics. The DOE is taking advantage of these tools and needs to provide funding for future products.

An Electric Advisory Committee (EAC) presentation is an opportunity to address the issue. Erich is presenting to the EAC in June and plans to advocate the relevance of the council to the DOE's efforts. Pat Hoffman will be present at the EAC meeting. Ward Camp suggested that the council hosts a face-to-face meeting in Washington, DC, where we can have a workshop or a special presentation for the EAC to highlight GWAC's products and relevance.

Discussion continued on what funding options would be if DOE walks away. It was noted that Pacific Northwest National Laboratory would work with DOE and create a graceful exit for GWAC if necessary. Ward Camp provided an example of how DOE started groups that became independent and continued without DOE. However, since GWAC has a small membership, the funding would be a challenge.

Doug Housman suggested two clear options could be SGIP and UCA. The UCA currently has no open architecture group. James Mater believes that SGIP and GWAC would be a better fit because they would be more influential to the smart grid community.

Ken Wacks discussed the world view and the influence of foreign matters, such as China spending 24% of their gross national product on energy. Ken Wacks asked if he should initiate informal discussions with a Canadian Smart Grid Group to help transnational or across the border evolution. Should the council ask DOE if international assistance is needed? Ron Melton asked if the council engages in these discussions, and what would be the benefit to DOE and the US electrical power energy. Ron Melton thinks this might be seen as distraction and wouldn't recommend engaging in such discussions.

## Grid 2020 Discussion

**Ron Melton, PNNL & GWAC Administrator**

Paul De Martini is facilitating a session at ConnectivityWeek called Grid 2020. This theme will also be an element of Grid-Interop 2012. With this in mind, Ron Melton asked the council what they see as the bounding elements of the 2020 power grid. What are the projections such as the 20% renewable by 2020? Where along on the trajectory should the smart grid be at in 2020 to meet the goals of 2030?

It was suggested to ask Paul De Martini to draft an outline of the Grid 2020. Ken Wacks volunteered to proof the document which will be distributed to the council for review and discussion at a future meeting.

## Department of Energy Electricity Advisory Committee (EAC) Meeting

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

Erich Gunther will be presenting at the EAC in June. The base of the presentation will be the GWAC outreach presentation that Mark Knight, Paul De Martini, and Ron Melton have been working on.

The Council reviewed the presentation slide deck and came up with the following suggestions:

- Slide 1- Tom Sloan suggested to add purpose
- Slide 2 - Add metrics
  - Tailoring to the EAC presentation:
    - Diverse team of industry leaders (not needed)
    - A couple of bullets illustrating strategic impact drawn from the metrics we've discussed
    - Shorten 3rd bullet and add examples such as the constitution, context setting framework
- Slide 3 – Remove circle graphic and add the 3 major blocks of the GWAC stack.
- Slide 4 - Erich suggested adding products such as the GWAC stack, check list, filings, and comments
- Slide 5 – Reduce text and replace with a graphical view that would illustrate interoperability, heterogeneity, and transactive energy

## **Working Lunch – Ohio Public Utilities Commission Filing/ GWAC Role in Government - Avocation and Advisory Services**

***Ron Melton, PNNL & GWAC Administrator***

Ron Ambrosio will be the reporting liaison between GWAC and WG1 for ISO/IEC JTC 1/SC 25/WG 1 N 151. After council discussion, it was agreed that Ken Wacks and Ron Ambrosio draft a letter about GWAC relevance to present to the council for review.

Some comments Ken Wacks provided for the Ohio PUC were not used in the final document. Ken suggested they be reviewed and discussed by the council for future use. There was some discussion about what scope of comment is appropriate by the council. The discussion concluded that the council has broader interests than just interoperability. Related questions about topics such as privacy are fair game. There was some concern that the council shouldn't necessarily advocate specific practices (at least without broad agreement) such as Ken's reference to activities in Texas.

Ken Wacks will circulate his expanded Ohio PUC comments for review by the rest of the council. Ron Melton reminded the council that comments can be submitted by an organization as well as an independent member.

## **Business and Policy Domain Expert Working Group (BnP DEWG)**

***Ward Camp, GWAC Member***

Ward Camp said that the policy aspects of data privacy seem to be dominating the work of the Business and Policy Domain Expert Working Group (BnP DEWG). The BnP DEWG is paying close attention to the GreenButton initiative and the issues that surround the opt-out option for smart meters. This means there will be analog meters in the grid with no capabilities, which also goes against all concepts of promoting for interoperability. Discussion continued over crossover. Ken Wacks asked about prices to devices. Ward Camp responded that the topic is covered in the BnP DEWG, but there are some who would lobby to move this topic into the home grid DEWG and others would prefer it kept in the BnP DEWG.

Ward Camp recommends that GWAC should have a message to provide to renewable energy resources that states how interoperability would benefit Nation Association State of Energy Officials This could be an outreach opportunity.

Erich Gunther shared information about GWAC's new twitter account that is located on the GridWise Architecture Council website.

## National Institute of Standards and Technology (NIST) Update and Smart Grid Interoperability Panel (SGIP) Update

*Steve Widergren, PNNL*

### Membership

- 757 organizations, 1881 members

### Leadership

- Mark Klerer re-elected for Plenary Vice Chair
- Greg Obenchain elected for Plenary Secretary
- Barry Haaser replaces Wayne Longcore on GB

### Value proposition outreach

- Conversations and survey with members ongoing
- Draft material being developed

### International cooperation

- EU SG-CG international SG interoperability meeting, June
- Korean SG Forum workshop co-located with Grid-Interop

### Standards

- 26 entries in Catalog of Standards, 12 more being prepared
- New work areas
- Green Button PAP
- Demand response wholesale market interface
- Discussions on collaborations on smart gas and water

### Business Sustainment Plan

- Material adapted from Scott Ungerer, BSPWG Chair
- Draft plan available on the SGIP TWiki
- <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/BSPWG>
- Comments from SGIP plenary are being accepted

### Process

- April 13 – April 27: Preview and comment period
- Early May: Review and comment period
- Early to Mid-June: Governing Board Approval

### Next Steps

- April/May: Reviews/updates to BSP (3 versions total)
- June 22: BSP approval by SGIPGB
- April 30: Commence drafting implementation plan
- July 9: SGIP 2.0 Membership Campaign
- January, 2013: Minimum Self-Sufficiency

Difference between SGIP 1.0 vs. 2.0

	SGIP 1.0	SGIP 2.0
<b>Dates:</b>	2009 to 2012	2013 and beyond
<b>Funding:</b>	Support by NIST with other gov't involvement	Private sources with NIST & other gov't involvement
<b>Management:</b>	NIST Governing Board Plenary Leads Program Administrator	Board of Directors Executive Director
<b>Purpose:</b>	Coordinate SG stakeholders to accelerate standards Support NIST's fulfillment of EISA requirements	Substantially the same
<b>Principles</b>	Openness Balance Consensus Harmonization	Remains the same Level of membership has privileges

Steve Widergren shared the SGIP's value proposition statement:

Our electric industry is now investing \$400 billion to revamp and modernize the electric system and develop a digital security blanket to protect our nation from cyber terrorism. Federal and state governments and industry are looking to the Smart Grid Interoperability Panel (SGIP) to identify key standards by which components of the system can work together - from generation, to transmission, to distribution, to the electric end user. To truly develop a seamlessly interoperating Smart Grid, the members of the SGIP assume the ultimate responsibility to resolve standards issues and gaps between different organizations. By focusing on standard identification and their interoperability, the SGIP accelerates the digital modernization of the grid and expands dependent markets. As a member organization, you have an equal seat and valued voice in shaping the standards that directly impact your organization's ultimate success and your career.

Bob Saint commented that the proposition statement should include stronger references to interoperability standards. Erich Gunther added that SGIP uses it as an influencer from certain groups to suggest actions or provide output to be acted upon.

The fee structure:

Member Category	Global Revenue	Platinum	Gold	Silver
For profit	>\$1 billion	\$30,000	\$15,000	\$7,500
For profit	\$500M to \$1B	\$20,000	\$10,000	\$5,000
For profit	\$100M to \$500M	\$15,000	\$ 7,500	\$2,750
For profit	\$ 50M to \$100M	\$10,000	\$ 5,000	\$2,500
For profit	\$ 10M to \$ 50M	\$ 4,000	\$ 2,000	\$1,000
For profit	\$ 500K to \$ 10M	\$ 2,000	\$ 1,000	\$ 500
For profit	<\$500,000	\$ 1,000	\$ 500	\$ 250
Muni/Coop		\$ 4,000	\$ 2,000	\$1,000
Non-Profit	>\$10 million	\$ 4,000	\$ 2,000	\$1,000
Non-Profit	\$500K to \$10M	\$ 2,000	\$ 1,000	\$ 500
Non-Profit	<\$500K	\$ 1,000	\$ 500	\$ 250
Universities	ALL	\$ 4,000	\$ 2,000	\$1,000
Foreign Gov't	n/a	\$ 4,000	\$ 2,000	\$1,000
Federal Gov't	n/a	\$ 4,000	\$ 2,000	\$1,000
State Gov't	n/a	\$ 2,000	\$ 1,000	\$ 500
Municipal Gov't	n/a	\$ 1,000	\$ 500	\$ 250

### Privileges by Membership Commitment Level

Privileges	Platinum	Gold	Silver
Voting & Governance			
Right to stand for Board of Directors	X		
Vote for Board of Directors	X	X	
Nominate Board of Directors	X	X	
Observe Board of Directors meetings	X		
Access to Board materials	X		
Representatives per membership (but only one vote)	∞	5	2
Vote on technical issues in committees, work groups and the general membership	X	X	
Vote on general issues presented to the	X	X	X

membership			
Participation			
Right to stand for membership committee chair election	X	X	
Right to stand for membership committee vice chair election	X	X	
Right to stand for membership committee secretary election	X	X	X
Right to participate in membership committees	X	X	X
Right to propose creation of subcommittees (e.g., DEWGs/PAPs)	X	X	
Right to stand for membership of Board Committees: Technical and Marketing & Membership, and Nominating & Governance Board Committees	X		
Eligible for invitation to participate in Technical, Marketing & Membership, and Nominating & Governance Board Committees	X	X	
Eligible to be a full member in Board Committee working groups or task forces	X	X	
Right to serve as liaison to SDOs/alliances	X	X	
SGIPortal Online Account	X	X	X

Discussion followed Steve Widergren’s presentation regarding fee structure and commitment and the similarities to the trade association model.

Comments are due by Friday, April 29, 2012, and are encouraged.

Discussion continued regarding GWAC’s role, pre and post 2.0 with SGIP, and perhaps we should be named an advisory role or an ex-member.

The current proposal derives the bulk of its revenue from membership. NIST and the SGIP Administrator proposed an approach that was not so dependent on membership fees. This is a fundamental philosophical difference.

## **GridWise Vision / Smart Grid Manifesto Results**

### ***Ron Melton, PNNL & GWAC Administrator***

Ron Melton updated the council on the status of the GridWise Vision. An update will be given at the next Face-to-Face meeting.



## Review of Action Items

### **Ron Melton, PNNL & GWAC Administrator**

- GWAC to provide comments regarding SGIP's 2.0 Plan.
- Paul De Martini to draft strawman for "Grid 2020" Grid-Interop track theme and distribute to council for review and input.
- GWAC members to send Todd Halter ideas for Grid-Interop paper subjects.
- Todd Halter to announce Grid-Interop call for papers.
- Reschedule August GWAC face-to-face meeting for August 28& 29 at Battelle's Seattle office.
- Reschedule October GWAC face-to-face meeting for October 31& November 1; location to be determined.
- GWAC sub-committees (Metrics and Planning)
- Ron Melton and Erich Gunther to continue GWAC budget discussions.
- GWAC to offer to present at NARUC meeting or webinar.
- Ron Melton to draft "Associates Membership" by-law change to submit to council by June 18.
- Erich Gunther to have Decision Makers Check List applied to the GreenButton Initiative.
- GWAC to look in to possible outreach opportunities for renewable energy presentations and discussions.
- Erich Gunther and Doug Houseman to investigate "Interoperability Context Setting Framework" as an IEEE / ISO / IEC document

## Adjourn

Ken Wacks made a motion to adjourn the meeting, Bob Saint seconded the motion and the meeting was adjourned at 3:20 p.m.