Meeting Minutes
July 17, 2013

Members

Ward Camp, Landis + Gyr
Jeff Gooding, California Edison
Alex Levinson, Lockheed Martin
Tracy Markie, Engenuity
James Mater, Quality Logic
Jeff Taft, Cisco
Ken Wacks, consultant to Sensus Metering
Systems Inc.

Associates

Doug Houseman, EnerNex

Support – Pacific Northwest National Laboratory (PNNL)

Sherry Kowalski, PNNL
Ron Melton, PNNL
Andrew Steckley, PNNL
Andrew Nicholls, PNNL
Abhishek Somani, PNNL

Speakers and Guests

Ed Cazalet
Dave LeeVee
Larry Lakey
Ken Nichols
Timothy Schoechle

Members Emeritus

Dave Hardin, EnerNOC, Inc.

Members – not present

Ron Ambrosio, IBM T.J. Watson Research Center
Paul De Martini, Newport Consulting David
Forfia, Electric Reliability Council of Texas
(ERCOT)
Erich Gunther, EnerNex Corporation
Mark Knight, CGI
Tom Sloan, Kansas State Legislator

Welcome and Administrative Business

Ron Melton, GWAC Administrator

Ron Melton called the meeting to order at 10:10 am.

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

Minutes from the May 21-22, 2013 face to face meeting and the June 26 web meeting were distributed to the council for review and comment. Alex Levinson motioned to accept the minutes with changes; Ward Camp seconded the motion and the meetings were approved with the correction.

Ron Melton reviewed the calendar for the GWAC meetings and the upcoming outreach dates:

GWAC Web Meetings:

- September 18

GWAC Face-to-Face Meetings:
- August 27-29 (Edison Electric Institute, EEI – Washington DC)
- October 28-30 (tentative in conjunction with GridWeek)
- December 11-12 (tentative at Southern California Edison)

Events:
- October 28 – 30 GridWeek 2013
- October 28-30 PLMA Conference
- December 9-13 Event TBD

TE Web Meetings:
- July 29, 1:00 - 2:00 PM PT – Ron Melton to give a TE presentation
- August 12, 1:00 - 2:00 PM PT
- August 26, 1:00 – 2:00 PM PT

Review of Action Items

Mark Knight, GWAC Chairman

Ron Melton reviewed the action items from the June 26 meeting.

Completed Items:

- ✓ Andrew Steckley to re-distribute the storybook template assignments
- ✓ Tech Opportunity Report
- ✓ Ron Melton to distribute DOE Technology Opportunity report for council feedback and review. Comments needed by Council by July 15th. Report and feedback to be discussed at July GWAC web meeting

Open Items:
- ❑ GWAC Stack – Council to continue the work on the Transactive Energy Framework document and further discuss the creation of key diagrams/graphics.   Action due by the end of the summer after the TE story boards have completed.
- ❑ TE Framework –
- ❑ Story board templates due back to Andrew Steckley as soon as possible.

Meeting & Event Planning Actions

Completed Items:
- ✓ Ron Melton will work on identifying GWCA support for the Moller Summit in Kansas
- ✓ GWAC face-to-face meeting to show on the GridWeek agenda
- ✓ Ron Melton will continue identifying GWAC speaker/representation and subject offline for the Peak Load Management Alliance (PLMA) conference
- ✓ Council members to send Sherry Kowalski possible conference/meeting conflicts that might interfere with the 2014 Transactive Energy Conference
- ✓ Mark Knight and Paul De Martini to facilitate August face-to-face meeting venue planning with Edison Electric Institute (EEI)
  - ✓ Ron Melton and Mark Knight to develop August meeting agenda

✓ Sherry Kowalski to distribute August meeting room block information when it becomes available
✓ Council members to hold December 4-12 on calendars

Open Items:

❑ Ron Melton, Mark Knight and James Mater will begin planning discussions for the 2014 Transactive Energy Conference. Venue and program details are needed by end of this summer. Ron Melton asked for feedback on the conference venue. Ken Nichols suggested that AEP Ohio Project is closely linked and might be a good second choice for the conference. The majority of the Council agreed to have Smart Grid Oregon host the conference for 2014. James Mater will discuss this with Smart Grid Oregon at their next board meeting and report back to the Council.

❑ Jeff Gooding and Paul De Martini to check on availably for rooms on the dates and report back to Council in two-weeks. A room is available December 9-11 at the C Center at Southern California Edison that could seat 60-100 meeting participants. From previous discussions it was decided to limit the meeting size so we could hold a working meeting that would focus on transactive conceptual use case presentations. The continuing action for Jeff Gooding was to lock in the conference room for dates of Tuesday, December 10 and Wednesday, December 11 and to send Sherry Kowalski a confirming email.

GridWeek 2013

Mark Knight, GWAC Administrator

Mark Knight will be moderating a GWAC session in the afternoon on Tuesday, August 29 from 1:30-3:00 called "Impacts of Energy Pro-Sumers." The session is focused on transactive energy. All but one slot has been filled on the panel.

The current panelists include:

• Paul De Martini

• Pending seeking panelist from DOE EERE

• Tom Sloan

• Jeff Gooding

The GWAC face-to-face meeting will be held Monday, October 28th in the late afternoon.

Peak Load Management Association Conference (PLMA)

Ron Melton, GWAC Administrator

James Mater and Ken Nichols are scheduled for the second day of the conference, which is Wednesday the 30th in Open ADR session. The title of the PLMA is "The Practice of DR used from the real world". PLMA had a concern that transactive energy discussion might be beyond the topic of the conference so they have placed us regarding Open ADR. Ken Nichols and James Mater would like to combine transactive energy with the topic of ADR. Ron Melton reminded the Council the original plan was to use PLMA to roll out the Transactive Energy Framework and to open the document up for feedback for further refinement.

GWAC August Face-to-Face Planning

Ron Melton, GWAC Administrator

The council will be holding a two-day face-to-face meeting and workshop on August 27-28, 2013. Edison Electric Institute (EEI) will host the meeting. The objectives of the meeting/workshop are to:

Ron reviewed the draft agenda for the meeting. The Council suggested adding a NIST update on the agenda. A suggestion was made to invite a White House Fellow to present at lunch on the 2nd day of the meeting.

Ward Camp asked GWAC to attend the SGIP business and Policy web meeting on July 26, 2:15 ET. Ward Camp will email the invitation to Sherry Kowalski to distribute to the Council.

GWAC December Face-to-Face Planning

Ron Melton, GWAC Administrator

If the meeting is arranged for the CTAC building Jeff Gooding suggested the Council partake in the Customer experience tour. The tour takes about 15 minutes.

Resnick Institute may host an after house reception.

Jeff Gooding and Paul De Martini will check on some logistic options and report back to the council.

Transactive Energy Framework

Ron Melton, GWAC Administrator

Ron Melton reviewed the Transactive Energy schedule. As of mid-June the goal was to have a review and approval on the table-of-contents, chapter outlines, and appendices.

Date	Item
5/22	Agree Table of Contents (based on Interop Framework and Atlanta Workshop)
6/07	Small team to complete introduction including targeted audience and key definitions
6/15	Identify non-GWAC contributors and expert reviewers
6/15	Review & Approval on TOC, Chapter Outlines & Appendices
6/30	** DOE Review & Approve TEF Scope
8/01	Review & Approval on Intermediate Draft
8/15	** DOE Review & Approve Intermediate Draft
9/30	Summarize TEF for GridWeek

10/15	Review & Approval on Final Draft
10/29	Present components of TEF at GridWeek
10/30	** DOE Review & Approve Final Draft
11/15	Final Version Released

The immediate action that the Council had was to create storyboard. Storyboard templates have been created and sent out to all the section leads, the templates are also located in the subfolder "Storyboards" in the GridWise Architecture Council SharePoint site. Below is a table of the storyboard assignments.

Authors	Section
Ron Melton & Mark Knight	Chapter 1, Preview
Mark Knight & Ken Nichols	Chapter 2, Context Setting
Ron Melton & Mark Knight	Chapter 3, Transactive Energy
Jeff Gooding	Chapter 4, Subsection - Policy Market Design
Paul De Martini	Chapter 4, Subsection - Business Models & Value Realization
Ron Ambrosio & Jeff Taft	Chapter 4, Subsection - TE Architecture
Erich Gunther	Chapter 4, Subsection - Cyber-Physical Infrastructure

Mark Knight completed the storyboards for chapters 1 and 2. Andrew Steckley has drafted a storyboard for chapter 4 (Policy and Market Design) and Jeff Taft submitted a draft storyboard for chapter 4 (TE Architecture).

Council members were asked to provide their storybook assignments to Andrew Steckley as soon as possible. The Pacific Northwest National Laboratory team will draft sections based on storyboards and circulate them to the team leads for review and feedback.

Technology Opportunities Report

Ron Melton circulated the Technology Opportunities report to the Council following the June 26 GridWise Architecture Council meeting. The Council was asked for input on chapter one which articulated a Buildings Technology Office of the Department of Energy vision on the future of transactive energy and buildings, and relating the buildings to the grid. There were also three subsequent chapters related to specific subareas. Ken Wacks provided feedback. Ron Melton distributed a set of summarized comments to the council and requested review and feedback. Ron Melton specifically requested members from vendor type of organizations please comment on the gap sections of chapters 2, 3 and 4.

Action Items Review

- Jeff Gooding and Andrew Steckley to set a meeting for July 19 to work on

- Council to provide feedback on Technology Opportunity report

- Abhishek Somani to circulate the draft conceptual use cases

- Council to provide input for possible speakers and participants for the GridWise Architecture Council face-to-face meeting in Washington, DC.

- Jeff Gooding and Paul De Martini to follow-up on the December GridWise Architecture Council face-to-face meeting and report back to the Council.

- James Mater to look into the possibility of Smart Grid Oregon hosting the 2014 Transactive Energy Conference.

- Ron Melton and James Mater to coordinate on the Peak Load Management Association Conference (PLMA) presentation.

Adjourn

Tracy Markie motioned to adjourn the meeting, Alex Levinson seconded the motion. Meeting adjourned at 11:57 am.