GridWise® Architecture Council

Meeting Minutes

Dec. 20, 2017

GWAC Members

Ron Ambrosio, Chief Scientist, Utopus Insights, Inc.

Tanya Barham, Director of Operations, PECI

Ron Bernstein, President, RBCG, LLC

Gerald R. Gray, Technical Executive at the Electric Power Research Institute (EPRI)

Stephen Knapp, Vice Pres. of Quality Assurance & Energy Markets, Power Analytics Corp.

James Mater, Co-Founder and Director, QualityLogic, Inc.

Farrokh Rahimi, Senior Vice President, Open Access Technology International, Inc. (OATI)

Members Not Present

David Forfia, Director, Enterprise Architecture & IT Transformation, Electric Reliability Council of Texas (ERCOT)

Doug Houseman, Grid Modernization Lead, Burns & McDonnell

Lorenzo Kristov, Electric System Policy, Structure, Market Design (retired)

Paul De Martini, Managing Director, Newport Consulting Group, LLC

Heather Sanders, California Public Utilities Commission

Tom, Sloan, State Representative, State of Kansas

GWAC Associates & Emeritus

Jeff Morris, Energy Horizon Corp.

Leonard Tillman, Balch & Bingham, LLP

Chris Villarreal, Plugged In Strategies

Guests

Rahul Bahadur
Ed Cazalet
Phil Davis
Ali Ipakchi
Tim Schoechle
Aaron Snyder

PNNL Support

Mark Knight, GWAC Administrator
Susie McGuire, GWAC Coordinator

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GWAC Online Meeting

Since David Forfia was on holiday and not available Mark Knight opened the meeting on his behalf.

Mark began the meeting with a review of action items from the October Face to Face and the November online GWAC meetings.

- Knight: send papers to Dave LaVee (completed)
- Melton: Setup review process for GMLC interop vision paper (expect soon)
- Knight: send copy of TE Roadmap to Mark Paterson (completed)
- All: Consider edits for the TE Framework (open)
- All: suggest suitable graphics for the TE Framework (open)
- Knight: follow up with John Caldwell re applicability of business and policy work (will do soon)
- Knight: find a partner for GWAC for TESC 2018 (SEPA has come forward)
- Knight: find a location for TESC 2018 (MIT, Boston, MA)
- Knight: incorporate edits and publish TE Roadmap (expect this week)
- All: Nominations for GWAC Chair (due by end of Dec.)

Mark has been reviewing feedback from the Kansas City discussions about the TE Framework. He asked everyone to provide him with any suggestions they have for making the Framework more concise and efficient. He is looking for document edits as well as for suitable graphics.

Mark reminded everyone that the GWAC call for new members is up now on the GWAC website http://www.gridwiseac.org/call_for_candidates.aspx few nominations have been put forward and he suggested that as with past years this call will likely need to be extended through January.

Mark noted that nominations for the position of the GWAC Chairman will be open through end of December. So far three names have been submitted but one was withdrawn. Of those one has been seconded by several members. Unless other nominations come in before the deadline, David Forfia will be retained as the chairman provided that DOE gives their approval. Any other nominations should be sent to Mark Knight by the end of the month. Mark noted that David Forfia has done an excellent job in this role.

Mark Knight reviewed the upcoming list of meetings and conferences as noted on the agenda.

Earlier this week Tanya Barham had inquired about the date and location of the next GWAC face to face meeting. She suggested adding it onto another event to reduce travel costs. This might mean a shorter meeting than usual but certainly would save costs, and might be more convenient for several Council members. The next meeting should be held between the end of February and the early part of March.

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Tanya had suggested the IEEE ISGT meeting which will be held Feb. 19 -22 in Washington DC. We would need to decide if it would be at the first of the ISGT meeting or at the end.

Stephen Knapp agreed that the ISGT would be a good meeting to tie into. He suggested that toward the end of the conference might be best to avoid adding an extra day of travel.

Tanya noted that even if it adds a day to the trip it saves making a separate trip.

Farrokh Rahimi said he flexible to either before or after the meeting. He has already made his travel arrangements but is willing to change them to add a day if that is what is decided by the group. He noted that the ISGT meeting ends at 3:00 pm on Thursday. This would leave Thursday afternoon and Friday morning available for a Face to Face meeting.

Chris Villarreal will be attending the NARUC the week before in DC. He might be able to stay on if the meeting was at the beginning of the week.

Mark suggested we think about it and possibly do a Doodle poll.

Action: Mark will follow up on the F2F suggestions.

Mark reviewed the activities leading up to the choice of Boston at MIT for the TESC 18. He noted that SEPA had expressed their interest in partnering with GWAC and hosting TESC18 at MIT. There have now been some organizing committee calls on this. SEPA has discussed their role as meeting hosts with Smart Grid Northwest to get information about what is needed.

The TESC 18 dates are set now as June 12 – 14, 2018 at MIT, Boston, MA, and the call for abstracts is now up on the GWAC Website www.gridwiseac.org and abstracts will be coming in. Gerald Gray remarked that he has already advertised this on social media and Mark asked other GWAC participants to do the same now or perhaps after the holidays when people are back at work. Mark expressed the need to form a technical committee soon to select abstracts and develop the technical agenda for the meeting.

Mark Knight and Chris Villarreal have been doing some planning for the agenda as an outcome of discussions in Kansas City, and they have developed a list of names for a regulatory panel and other speakers. As discussed in Kansas City by the group, they are hoping to get a "local flavor" by getting speakers from the northeast region.

Rahul Bahadur has been looking at secure, reliable cloud computing. He would like to look at papers on this topic now or for a future meeting. He asked who he could reach out to on the GWAC and have a partnership with on this? Mark asked him to send an email to him and Mark will be happy to follow up and make some introductions to get this in place. **Action Mark to follow up on cloud computer as a future TESC topic and provide Rahul with the name of a potential GWAC partner for this subject.**

Mark discussed progress on the **TE Framework** and did a recap of the discussions at the Kansas City Meeting to check who wants to work on the various sections.

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Section 1 is the Introduction, framework, viewpoints – Mark Knight, David Forfia

Section 2 is on Context, market context – Mark Knight, David Forfia, Tanya Barham

Section 3 is on Definitions, attributes, principals – Mark Knight

Section 4 has 4 bullets;

- Regulatory and Policy – Tom Sloan, Chris Villarreal, Jeff Morris
- Business models and Value Realization – Tom Sloan, Chris Villarreal, Jeff Morris, Farrokh Rahimi, Gordon Matthews
- System Design and (conceptual) Architecture – Ken Wacks, Aaron Snyder, Ron Bernstein, Mark Knight
- Physical and Cyber Technologies and Infrastructure – Ken Wacks, Ron Bernstein, Gordon Matthews

TE Framework Actions for Mark Knight:

- add Farrokh to policy group
- add Ron Ambrosio for physical & cyber
- Stephen Knapp could work on any or all 4 sections
- Mark Knight noted that Doug Houseman offered to help out wherever we are short
- Likewise with Doug Houseman who will probably go on the Cyber Physical section.

Farrokh mentioned the appendix for Case Studies. He suggested that there also be an appendix for the Policy Makers Checklist as a good place to keep this document. Mark noted that we have an appendix with case studies and in Kansas City it was suggested that this be shrunk and moved to a new location such as a section five. Mark noted that most case studies are usually one or two page with a high level overview. If we could format similar to that we could have a section five. The DMC might be too large to add as an appendix but it certainly could be added as a reference.

Further, Mark noted that in Kansas City we also discussed the differences and commonality of the three documents, the Decision Maker's Checklist, the TE Roadmap and the TE Framework. He asked if we could we create a diagram that explains the relationship of these three documents and thus, help to direct people to the right documents for their need. This guide might bring added clarity and efficiency for the reader.

Ron Bernstein gave an update on ASHRAE. He is set for speakers they are all confirmed. He reminded Mark of his talks on day one regarding GWAC and on day two regarding GMLC where he will be on a panel with Tracy Markie and Michael Poplawski.

Ron also requested a GWAC template for speakers to use on during the GWAC panel, and for also for a one page flier on GWAC and GMLC if Mark can locate something.

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Action: Susie send a GWAC PowerPoint template to Ron Bernstein. He will send it out to the speakers so they can use the template for their talks.

Action: Mark to try to locate a one page flier on GWAC and also on GMLC if possible.

Ron Bernstein gave a motion to end the meeting and Stephen Knapp seconded the motion to adjourn the meeting. Ron Ambrosio, Chair Emeritus, adjourned the meeting and wished all GWAC participants happy holidays.

Actions Recap:

Action: Mark Knight will follow up on the F2F suggestions.

Action Mark Knight to follow up on cloud computer as a future TESC topic and provide Rahul Bahadur with the name of a potential GWAC partner for this subject.

Action: Susie McGuire send a GWAC PowerPoint template to Ron Bernstein. He will send it out to the speakers so they can use the template for their talks. (Completed)

Action: Mark Knight to try to locate a one page flier on GWAC and also on GMLC if possible.

TE Framework Actions for Mark Knight:

- add Farrokh to policy group
- add Ron Ambrosio for physical & cyber
- Stephen Knapp could work on any or all 4 sections
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