

## Meeting Minutes

August 16, 2017

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### *GWAC Members*

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

Ron Ambrosio, Chief Scientist, Utopus Insights, Inc.

Tanya Barham, Director of Operations, PECE

Ron Bernstein, President, RBCG, LLC

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

Doug Houseman, Grid Modernization Lead, Burns & McDonnell

Lorenzo Kristov, Principal, Market & Infrastructure Policy, California Independent System Operator

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

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

Tom, Sloan, State Representative, State of Kansas

### *GWAC Associates & Emeritus*

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Gordon Matthews, Technology Innovation, Bonneville Power Administration

Chris Villarreal, President, Plugged In Strategies

Ken Wacks, Consultant, Sensus Metering Systems Inc.

### *Members Not Present*

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Stephen Knapp, Executive Director at Power Analytics Corporation

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

Heather Sanders, California Public Utilities

### *Guests*

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David Wollman

Ali Ipakchi

Aaron Snyder

David LeVee

Larry Lackey

Leonard Tillman

### *PNNL Support*

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Ron Melton, GWAC Administrator

Mark Knight, GWAC Support

Susie McGuire, GWAC Coordinator

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### GWAC Online Meeting

Ron Melton read the proprietary notice at 10:10am PDT.

David Forfia asked that we postpone the July meeting minutes for approval until the next meeting.

Ron Melton reviewed upcoming meetings.

Regarding TESC18 Ron Melton noted that the meeting will be more oriented toward industry. He is looking for suggestions for panels that might be beneficial for industry.

Farrokh Rahimi would like to see two super sessions with more tracks to improve the meeting. He also suggested that we coordinate our TE focus with that of the IEEE ISGT.

There was some discussion about roadmap efforts and also about regulation and emerging technology.

**Action:** The Face to Face in KC was discussed and a working group will meet in the next few weeks to plan the agenda. Tom Sloan, Farrokh Rahimi, Tanya Barham, Doug Houseman and Ron Bernstein offered to participate in the planning.

### SEPA Grid Evolution Summit recap:

David Forfia – hasn't seen all attendance numbers but it is estimated that it was about 160 people up from the last meeting. The technical sessions, including Architecture and Transactive Energy were well attended. Friday technical sessions were even well attended, in spite of it being the last day and having a weather alert for some travelers.

Ron Melton noted the architecture meeting on Tuesday had 40 or 50 people which was impressive. The Friday grid architecture tutorial also had good attendance. There was a GMLC Interoperability meeting on Friday that Steve Widergren and Mark Knight attended and it also had a good number of participants. Ron thought the speakers were all very good and discussions had good audience engagement.

Ken Wacks noted that his home building industry to grid meeting on Friday was well attended. Ken gave an overview on Transactive Energy and also a home building industry to grid summary of white papers. He is hoping to get this group to integrate better with SEPA. Ken asked for David Forfia's help in getting this group to join SEPA. David will follow up on that suggestion.

Tanya Barham mentioned the ISGT panel ideas from the PES IEEE meeting– she said that Steve Widergren was on her panel, there was a home energy management panel where she met people who were very interested in TE. Discussions around technical TE concepts, consumer interests, and economics were all part of the discussions. Maybe this would be a good topic for TESC 18. Tanya has asked Anabel Pratt if she might want to do a session like this.

Farrokh agreed that this would make a good panel session proposal.

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David Forfia suggested gathering opinions from the audience at the next face to face meeting using a cell phone application. The system has a flexible pricing scheme based on the audience size.

Ron Bernstein pointed out that Anto Budiardjo has been working on something like this and he will follow up to see if this is available. This technology would be used during live presentations where organizers can launch an audience “poll” as the need arises during the meeting. Mark sent an email to Anto during the meeting to find out. Mark Knight followed up and it is not a feature that is available in PointView.

Mark Knight reviewed the TE Roadmap meeting activities from the SEPA meeting. It was standing room only. The core concepts have been mapped, only one was unused. The reviews show only a small number of gaps. Mark had re-purposed the presentation from the TESC17 meeting for this meeting. Good feedback was gathered and Mark is now reviewing that input with the Roadmap working committee.

Ron Melton advised Mark to take the tables and put them into Enterprise Architect, EA, where he can look at the relationships from each track (vertically and horizontally) to see if relationships make sense. He compared it to three dimensional chess. Ron said that Enterprise Architect files will be available for those who are interested. David Forfia is creating this mapping in EA.

### TE Framework Refresh

Mark Knight said we will take the results of the roadmap exercise as a guide on where we should focus the refresh of the TE Framework Document. This will be discussed in depth at the Face to Face meeting in Kansas City. Ron asked everyone to get a copy of the framework and review it before the meeting.

**Action GWAC:** Please look at the current version of the framework to see if anything is out of date or inconsistent. Mark noted that over the course of the next few GWAC online calls and meetings this will be a topic for discussion. Feedback and comments will be needed so that the document can be edited and updated. The document can be found on the GWAC website:

[http://www.gridwiseac.org/pdfs/te\\_framework\\_report\\_pnnl-22946.pdf](http://www.gridwiseac.org/pdfs/te_framework_report_pnnl-22946.pdf)

Ken Wacks asked about the MIT alternative for the TESC18 conference. Ron Melton noted that there are several alternatives including Charlottesville, NC. Dates were discussed, and April and June were both noted as not ideal. Ken suggested that EPRI and Georgia Tech could maybe be partners with MIT on the meeting.

Leonard Tillman said he didn't have information ready just yet from his contact regarding the meeting.

Mark Knight would like to get some TESC18 ground work done early. Ron agreed that we should get going now and noted that he saw Steve Hauser again at the SEPA Grid Evolution meeting, and Steve mentioned the GridWise Alliance would like to partner with us. Steve said he would also like GWAC to

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be a part of the gridCONNECT 2017 in Washington DC in December. This group might be able to help us with the fiduciary side of things.

### Liaison Reports

SEPA – David Forfia didn't have anything. But Ken Wacks has been discussing with Aaron about liaison between ISO, IEC and SEPA. They are proposing a path for standards to facilitate the exchange of documents in development. There would be no obligation by SEPA other than to facilitate the distribution of these documents. David said this could be discussed at the Aug. 29 SEPA meeting.

Mark Knight – SEPA committee – nothing other than the relaunch of some of the subgroups. Aaron Smallwood is reviewing the suggestions.

Ron Melton–SEPA Architecture committee has some new members. They are looking to bridge the gap with Kavi and SEPA.

David Wollman – The Smart Grid Advisory Committee meeting is this week and on Aug 28 & 29 in DC, at the Global Cities Expo event.

Ron Bernstein – reminded Ron Melton that he had sent an email to him and to Steve Widergren regarding LonMark and ASHRAE. Ron is free to pass along any relevant information. There will be a meeting in January in Chicago with a panel or workshop called Integrated Smart buildings to smart grid meeting is planned, in January. The session topics are due in two days and he will need some speakers. He is hoping to get Ron Melton or Mark Knight but is open to suggestions.

Ken asked if the TE Framework could be shared with the ISO International Committee. Ron said the refresh should be fairly quick, it would be a report (not a standard). He would support this.

Industrial Internet - Ron Ambrosio is no longer involved with this since leaving IBM.

Gerald Gray: CIM Compliance Testing will be held in in Knoxville, Oct. 10 -12, 2017. Ron Melton said this conflicts with a DOE meeting that he is involved with. Ron noted that Tom McDermott would be there. The subject would be on CIM related standards. Ron asked if Gerald could recap this at the Oct. GWAC meeting. Gerald won't be able to make that meeting but will mail in a report or some slides as a summary. Gerald has the action to get this to Ron Melton.

Ken Wacks is looking for information on a data center. Gerald Gray noted that his company has an EE Research program that covers a wide range of things and may have a data center.

Ron Melton noted that Terry Oliver retired from BPA last week. Ron and some others from PNNL attended as did Gordon Matthews. Ron recognized Terry's help with the GWAC over the years as a true friend of the Council.

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### Action item review

**Action:** Ron Melton reminded the GWAC participants of the need to access the TE Framework Document located at [www.gridwiseac.org](http://www.gridwiseac.org) and review the document in preparation for a refresh activity that will be addressed in depth at the GWAC Face to Face meeting in Kansas City (Oct. 25, 26). Mark noted that it will be a point of discussion at the next online meeting.

**Action:** The Face to Face in KC was discussed and a working group will meet in the next few weeks to plan the agenda. Tom Sloan, Farrokh Rahimi, Tanya Barham, Doug Houseman and Ron Bernstein offered to participate in the planning.

### Closing

GWAC Chair David Forfia asked for a motion to adjourn. Tanya Barham gave the motion. It was seconded by Ron Bernstein. There were no objections. The meeting was adjourned at 11:10am PDT