

## Meeting Minutes

Nov. 15, 2017

### GWAC Members

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Ron Ambrosio, Chief Scientist, Utopus Insights, Inc.

Tanya Barham, Director of Operations, PECl

Doug Houseman, Grid Modernization Lead, Burns & McDonnell

Stephen Knapp, Vice President of Quality Assurance & Energy Markets

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

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

### Members Not Present

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

Ron Bernstein, President, RBCG, LLC

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

### GWAC Online Meeting

David Forfia is unable to attend this meeting. A membership quorum was not reached.

Mark Knight noted the success of the Face to Face meeting held at Burns & McDonnell in Kansas City last month and he thanked Doug Houseman for making that happen.

Overview of upcoming meetings –

DistribuTECH Conference – Jan. 23-25, 2018, San Antonio, TX

AHR Expo, Jan. 22-24, 2017 Chicago

Lorenzo Kristov, Principal, Market & Infrastructure Policy, Calf. ISO (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

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Ken Wacks, Home, Building and Utility Systems

### Guests

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David LeVee  
Tim Schoechle

### PNNL Support

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Ron Melton, PNNL  
Mark Knight, GWAC Administrator  
Susie McGuire, GWAC Coordinator

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- Opening for a GWAC speaker on Monday Jan. 22 please let Mark Knight know if you are interested. Mark has a slot that he could give up since he is doing the GMLC talk on behalf of Steve Widergren
- This talk is in the 3:00pm to 5:00pm slot on Integrating Smart Buildings to the Smart Grid: Creating Value on Both Sides of the Meter

Mark Knight reminded the group that the call for GWAC member nominations will be posted soon on the GWAC website ([gridwiseac.org](http://gridwiseac.org)). Members that will be up for reconsideration with terms expiring in December are Ron Ambrosio, Farrokh Rahimi, Doug Houseman, Tom Sloan, Heather Sanders, and Paul DeMartini. Mark will be contacting these members to inquire if they wish to seek reelection.

James Mater and Stephen Knapp volunteered to work with Mark Knight on the nomination process.

The GWAC website will have the application process posted again soon. Nominations should be submitted to The GridWise Coordinator [gridwiseac.coordinator@pnnl.gov](mailto:gridwiseac.coordinator@pnnl.gov) and please copy to [Mark.Knight@pnnl.gov](mailto:Mark.Knight@pnnl.gov) The slate must have DOE approval.

Tanya Barham will talk with Marissa Hummon with Tendril, she is interested in submitting an application.

Mark Knight will post an announcement on his Linked in account when the GWAC website has been updated with the announcement. The application process is open until Dec. 31, 2017. The selection committee will meet in early 2018 and he expects to have the new slate presented in March either as a special meeting or during the regular meeting.

**Action Mark:** Post the GWAC nominations call on Linked-In.

Ron Ambrosio asked that the website be updated to show what segments we are seeking to have represented to replace those leaving.

James Mater identified these areas as being utilities, academics, industry, and regulatory.

Mark Knight noted that we don't want to constrain or restrict applications. He said we can mention the skills but we should not discourage interested parties.

Ron Ambrosio said each that each seat is mapped to a sector. Mark Knight noted that while this has been the objective, the rule is not hard and fast, but we do want balance. He noted that Heather Sanders moved from utilities to regulatory during her term.

The chairman, David Forfia has served three terms. Mark will be contacting the membership to ask if they have suggestions for nominations or if they want to serve in this role. This will be talked about more in depth next month but he encouraged the GWAC members to be thinking of what they would like to see.

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Mark presented a slide on the TE Roadmap status. There has been no new progress since the meeting in Kansas City. The Roadmap will be published on the GWAC website when complete. It will also be reviewed again and updated at a future date.

Mark also gave an overview of progress on the TE Framework refresh. Input was received at the meeting in Kansas City but there have been no updates since then. He would appreciate feedback comments on any section from the GWAC please send by email. He is hoping to find a volunteer for each of the sections.

Ken Wacks said he believes that Transactive Energy should be brought into the scope of utilities. It is becoming the reality and is needed to help shape new business models.

Mark Knight noted that he is making slow but steady progress on the procurement language document.

Ron Melton thanked everyone for volunteering to help with the vision paper.

Mark is looking for feedback on the three most important aspects of a Transactive Energy system as we work to help SEPA's TEWG to develop a conceptual model. He defined this as a set of concepts, semantics and related structures that can be used for describing any transactive energy system design. Mark noted that the objective is to understand the components of a TES and what the purpose is, not how it will be implemented. Mark would like feedback from the GWAC, which can be sent to him via email. A Transactive Energy agent was one suggestion. Constraints and boundary conditions that might shape the system were another one. Mark said that he is looking forward to receiving feedback from the GWAC and offered to do a presentation to the council on this in the future.

Farrokh Rahimi suggested the NIST TE challenge list might be a good starting place. People could prioritize from that list or make new suggestions.

Mark Knight gave an update on the arrangements underway for TES Conference 2018. A call was made to the University of Minnesota which was very positive and productive.

Mark is working with OATI contacts on them taking a role similar to that of SGNW at past conferences. Mark asked Farrokh to contact Mary Brown to see if things are looking positive regarding OATI as a partner in the conference.

Mark noted that the conference has made a small amount of money each year but there is still some financial risk. This would be something the partner organization filling the role of SGNW would need to take on.

An organizing committee has been created and calls will be scheduled soon.

A program committee will be set up once the call for papers is published.

The Call for Papers needs to be published as soon as possible. It is dependent on the venue selected. Stephen Knapp is working with Mark Knight on this effort.

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Next year's theme is "Evolving approaches for implementing TES."

Mark Knight has gotten feedback that regulatory issues should be put back into the conference.

Ken Wacks said that MIT is still working on a revised budget which they will be sending soon.

Jeff Morris had some ideas about the conference venue that he mentioned to Mark Knight and Ron Melton. So did Aaron Snyder with EnerNex and UT, however he noted that EnerNex could not take on the financial responsibilities.

Ken Wacks said that David Forfia had said SEPA that might be interested.

Mark Knight did not want to rule out MIT yet. But if chosen the registration fee structure would need to be dramatically changed as costs would be higher. He noted that the financial partner may dictate the location of the meeting.

Doug Houseman suggested that we start looking now for the 2019 location.

Tanya Barham agreed with this and also Stephen Knapp. Ken Wacks also agreed to help.

**Action:** Mark will organize a group to start looking at 2019 venues and financial partners. The hope is to move to the northeast.

Mark noted that the efforts of Smart Grid Northwest with past TESC meetings have brought efficiency and consistency to the conference and he thanked Smart Grid Northwest for their help.

### Liaison Reports

ISO/IEC: Ken Wacks would still like to bring a GWAC document to the next ISO/IEC meeting which is 3 months away.

Mark Knight said the best candidate is the TE Framework but it will not be finished by March.

Ken Wacks noted there will be another meeting Sept. 2018 if the document was ready by then.

IEEE PES: Ron Melton noted that yesterday he became the IEEE PES Smart Building Loads and Customer Systems Committee Chair (Shawn Chandler formed it a few years back). The committee is very relevant to the GWAC.

Ron Melton also noted that this committee includes a sub-committee with a TE standard being written. It should come out as a guide in a couple years and then later will come out as recommended practices. Ron is new to this and gaining an understanding but he whole heartedly invited GWAC members to become involved. He went on to say that Farrokh Rahimi and Steve Widergren are also already involved with it.

Ron Ambrosio asked for more information but Ron Melton noted he doesn't have much information yet but as he gets up to speed he will share with the GWAC.

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Farrokh Rahimi noted that Paul Heitmann is leading some of the efforts. There are sessions in each IEEE Meeting for this group. It is an active group with international participation including members from Europe and Asia. IEEE P825 is the standard they are working on.

James said the lack of standardization relevant to TE is one of the big problems for TE. He thought this effort would be very important.

Ron Melton said he understands this group is still early in the development of the lowest level of standards. It is not very specific yet. After the guide is published the effort will move to the level of recommended practices. The 3<sup>rd</sup> level of standard is the goal after that and it may move to another committee at that time.

Ron Melton will keep the GWAC informed and ask for their guidance as he gets more involved with it. Several ideas about possible GWAC involvement were discussed.

Action – Ron Melton: Share additional information on the IEEE PES Smart Building Loads and Customer Systems Committee and sub-Committee

James Mater noted that the IEEE 1547 standard on DER interconnection is being developed. A TE discussion came out among protection and control engineers. There is a lot of progress being made and adopted by North American utilities. It is starting to be very prescriptive about communicating with DER. He is starting to work with Brian Seal from EPRI on Interoperability testing.

Mark Knight announced the end of the meeting discussions. It was noted that since we did not have a quorum a motion is not needed to adjourn.

### Action Recap:

**Action:** Mark will organize a group to start looking at 2019 venues and financial partners. The hope is to move to the northeast.

**Action:** Ron Melton: Share additional information on the IEEE PES Smart Building Loads and Customer Systems Committee and sub-Committee

**Action Mark:** Post the GWAC nominations call on Linked In.