

## Meeting Minutes

May 17, 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, PECl

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

Doug Houseman, Vice President of Technical Innovation at EnerNex

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*

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Gordon Matthews, Technology Innovation, Bonneville Power Administration

### *Members Not Present*

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Ron Bernstein, President, RBCG, LLC

Stephen Knapp, Executive Director at Power Analytics Corporation

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

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

Heather Sanders, Principal Manager, Integrated Grid Strategy & Engagement, Southern California Edison

### *Guests*

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Ed Cazalet

John Chowdhury

Dave LaVee

John Thompson

Leonard Tillman

### *PNNL Support:*

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Mark Knight, GWAC Support

Susie McGuire, GWAC Coordinator

### *GWAC Emeritus*

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Ken Wacks, Consultant, Sensus Metering Systems Inc.

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### GWAC Online Meeting

GWAC chair David Forfia began the meeting at 10:09am PDT when a quorum was reached.

Mark Knight noted that the meeting minutes for the Face to Face GWAC February meeting, and also the minutes for the March and April online meetings are ready for approval if there was a motion to approve them.

For the February 6 and 7 Face to Face minutes Doug Houseman gave the motion to approve and it was seconded by Tom Sloan.

For the March minutes, Doug Houseman again gave the motion to approve and Tom Sloan seconded the motion.

For the April minutes, Doug Houseman gave the motion to approve with a notation that Susie will make an edit requested by Ken Wacks, and Paul DeMartini seconded the motion. The edit is, "Ken Wacks will provide Tanya Barham with published papers on Gridwise activities on GWAC and TE."

Mark reviewed the upcoming meetings. A question was raised about the TE working group at the SEPA meeting in Wash DC, July 25 - 27. Mark would like to ensure that we get a good topic for this meeting to draw in potential new members for the SEPA TEWG. Mark gave Susie an action to see if a meeting has been scheduled. Gabrielle Puccio may know the answer or Dave Hardin.

Mark Knight will also talk about the TE Working group with David Holmberg.

Mark reviewed the status of the TESC 17 meeting.

Mark asked David Forfia to take the lead on the Foundational session. Mark and Heather had proposed a panel session.

The three themes of panels and workshops are Real World Technology, Design, and Policy (Gerald Gray), TE in Practice (Ambrosio), and Standardization for Transaction Energy (Knight/Forfia) which James Mater had been leading but since he also will be giving a talk he should not be leading the session.

For the Foundational Session Mark presented a slide with a proposed plan with David Forfia as moderator and other GWAC members assisting. Mark will be following up with those involved to discuss the details.

Acton: Mark asked Susie to schedule a meeting next week for everyone on the TE Roadmap team. Mark will provide the name list of people for the meeting. All four tracks are now filled out, we can fill out the whole section and send to the council for review, then publish for public comments and present a draft at the conference. Later the final version will be published when all feedback has been incorporated.

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Tanya noted that she likes to fit technologies into marketing. She wants to help the GWAC develop communication materials for lay people. She noted that sometimes the high level of understanding of the GWAC members doesn't come across to the public. Tanya has a marketing person at her company who helps her understand when her company is not communicating clearly for the general public. She believes that she can assist the GWAC in addressing the needs and interest of a wider audience.

Tanya noted that while Mark had sent her a link to a 13 minute TE overview You Tube video on Transactive Energy, it was still quite lengthy and hard to walk away with a good understanding. A simple definition could be very helpful for lay people such as city mayors. She suggested some basic concept questions designed to engage more people and get them thinking about how Transactive Energy could affect them and in our current electrical structure.

James thinks it would be good to do what Ron Ambrosio suggested such as identifying our audiences and the level of understanding that they need. He thought that the general public or mayors are not at the level that the GWAC needs to address at this point. GWAC is still trying to educate the utility community.

Ken outlined some of the constraints built into the grid by 100 year old laws that still exist.

More discussions ensued on the complexity of this topic.

Tanya asked about the end point in terms of a household consumer or a microgrid, while maybe some types of TE are being applied, there are different stages and changes are happening rapidly. Many communities are interested in climate protection and also the ways that community members can use, conserve and even produce energy. These issues drive consumers to ask questions and explore new devices and energy consumption changes to match their values.

Paul noted that where economics and controls can be brought together to bring about certain outcomes might be a good perspective. We could illustrate how these techniques are being applied and are currently moving from concept to implementation.

Mark will take the action to follow up with a meeting of Dave, Ken, Paul as a reviewer of the material, and Tanya. Mark noted that using the TE paradigm would be helpful to emerging markets.

Mark also noted that GWAC is not a standards organization. He would like to follow up with this topic as a side effort if we can to keep on our regular business and deliverables as well.

Dave LeVee mentioned that the fundamentals of value need to be applied across "all" platforms. TE, Utility generation, DR and DER are addressed in an SGIP paper that he published last November. The paper reference is: [https://members.sqip.org/higherlogic/ws/groups/sqip-h2gwg/download/8602/2016-06-28\\_sqip-h2gwg\\_00197\\_Econ-v30.doc](https://members.sqip.org/higherlogic/ws/groups/sqip-h2gwg/download/8602/2016-06-28_sqip-h2gwg_00197_Econ-v30.doc)

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### Liaison reports

SEPA - David Forfia noted that during the SEPA meeting in DC in July there will be just one SEPA membership, they are still resolving SGIP membership involvement. SGIP dues will continue everyone as SEPA members.

NIST – David Wollman: Regarding federation and remote accessing, universal cyber testbeds, and interacting with PNNL on Grid-Lab D, Marty Burns is a good contact for it. There is a meeting at the end of the SEPA meeting in July in DC, it will be in Maryland at NIST.

Ron Bernstein: A reminder of TESC 17 is on the Lonmark.org, home page at the bottom. LONMARK is a member of CABA. There is an effort in home automation world to develop new standards. These were approved, and new interop standards that will go through the ANSI process later this year or early next year.

Ron Ambrosio – no news on IC

Mark asked Ken how many copies of the GWAC 2008 Context Setting Interop Framework paper were sold. Ken noted that it can be purchased from several sources (IEC, ISO, ANSI, etc). Ken will ask at the next meeting if it's possible to get that information.

Leonard Tillman asked if we are planning to have a GWAC Council meeting session in Portland. Mark said he's been trying to pick a day. Day 1 (June 13), before the workshops is the best option so far. Farrokh won't be able to attend, he is arriving around Noon. Mark noted that not everyone will be able to attend.

Mark Knight and Ron Bernstein are still checking attendance at workshops to see if there will be sufficient interest to hold them.

Chair David Forfia asked for a motion to close the meeting at 11:21 am PDT. Doug Houseman made the motion to close the meeting and Ron Bernstein seconded the motion.

### Actions

Action: Mark will talk about the TE working group with David Holmberg.

Action: Susie to contact Gabrielle Puccio with SEPA to find out if a GWAC meeting is on the schedule for the SEPA Grid Evolution summit meeting in DC in July. Mark will coordinate with her to publicize the topic and also the TE working group.

Action: Mark will follow up on the topic of a Transactive Energy definition for laymen suggested by Tanya Barham with a meeting. Dave, Ken, and Paul have offered to act as reviewers of the material. Mark will talk with Lorenzo first.

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Action: Mark created a slide for the Foundational session and will follow up with David Forfia and with the others to discuss how to make this work. Mark will send Heather Sanders some details and they will finalize the plan and then send it out. Mark and Heather will complete the planning for the Foundational session and engage with David and panelist for detailed topics for discussion.

Regarding the GWAC F2F Fall meeting, GWAC members are asked to hold the following possible dates Oct. 10, 11 or Oct. 25, 26.

IEC – Ken Wacks asked what GWAC publications might be good for an IEC technical report. These would be needed in the next month or two.

Action: Mark to talk to Ron Melton and then Ken Wacks (*ideas might be the TE framework, DM Checklist or Roadmap not yet complete*) Ron is planning an update to TE Framework. Action: Mark to discuss this with Ron Melton