

Meeting Minutes

December 18, 2018

GWAC Members

Ron Ambrosio, Chief Scientist, Utopus Insights, Inc.

Tanya Barham, Director of Operations, PEC

Ron Bernstein, President, RBCG, LLC

Stephen Knapp, Vice President of Quality Assurance & Energy Markets, Power Analytics Corporation

Lorenzo Kristov, Principal, Electric System Policy, Structure, Market Design

Farrrokh Rahimi, Senior Vice President, Open Access Technology International, Inc.

Thomas Sloan, State Representative, State of Kansas

Leonard Tillman, Partner, Balch & Bingham, LLP

GWAC Members not present

David Forfia, Director, Enterprise Architecture & IT Transformation, Electric Reliability Council, TX

Gerald R. Gray, Sr. Program Manager, Electric Power Research Institute (EPRI)

Joe Hagerman, Deputy Chief Scientist, NRECA

Doug Houseman, Grid Modernization Lead, Burns & McDonnell

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

GWAC Associates & Emeritus

Chris Villarreal, Plugged In Strategies

Robert Burke, Principal, Robert Burke Consulting

Ken Wacks, Home, Building and Utility Systems

GWAC Guests

Aaron Synder, EnerNex

Stuart McCafferty, Black & Veatch

Jeff Katz, Grid Technology, IBM

PNNL Support

Mark Knight, GWAC Administrator

Susan McGuire, GWAC Coordinator

Meeting Minutes

December 18, 2018

Review Meeting Minutes & Actions

- Action items from previous meetings
 - All: please let Mark know if you will be unable to attend a call ahead of time.
 - Everyone: send suggestions for Keynote Speakers
 - Susie: and Mark to work with Teresa Carlton to get the TESC 19 Call for Papers out on the GWAC website.
 - Mark: ask David Wollman to send links to the UCEF and NIST activities
 - Mark: to follow up with everyone who offered a spot for the next GWAC F2F meeting.

Administration

Ron Ambrosio called the meeting to order on behalf of David Forfia at 10:15 am.

A quorum was reached. Ron Ambrosio asked for comments on the meeting minutes for November. Hearing none he called for a motion to accept. Ron Bernstein gave the motion, Farrokh Rahimi gave the second, and there were no objections.

Future GWAC Face to Face meetings

The next Face to Face meeting will be held at AEP in Tulsa, OK. Ron Cunningham, Tanya Barham and Aaron Synder had all expressed interest in hosting a GWAC meeting through their company on the last call. Ron Cunningham came back to Mark with approval from AEP very shortly after the call so they were chosen and the meeting is now scheduled for Feb. 12 and 13. Additional information will be forthcoming. Mark expressed appreciation to Ron Cunningham and AEP for their offer of hospitality for the GWAC.

Smart Buildings White Paper update

The Smart Buildings paper is moving along. Ron Bernstein is working to put a GWAC panel together for the AHR meeting in January. They have an abstract, an outline and an introduction and are ready to assign writing responsibilities to the committee for that paper.

Proposed new GWAC Vice Chair

This new position for a GWAC Vice Chair was suggested in emails this week when David realized that he would not be able to attend this meeting. Mark Knight noted that GWAC has not had a Vice Chair in the past. It might be a good stepping stone to the chair position and would help in cases where the chair was not available. Several members have already expressed support in the email exchange.

Stephen Knapp asked what would need to be done to document the new position.

Mark noted the bylaws would need to be updated, GWAC would need to vote and we would get DOE approval. He said it might make the way to exit the Chair position a bit easier.

Meeting Minutes

December 18, 2018

Ron Bernstein noted that this could foster a succession plan. He also liked the idea of giving leadership roles to other members of the council.

Ron Ambrosio thought the purpose would not be so much to run the meetings but agreed it would be a good way to help establish the next chair person.

Tanya also thought that the Vice Chair should be someone who the group agrees could make a good future chair and has the right background in the expected future direction of the GWAC.

Mark noted that the method to elect a vice chair would be drafted to follow the same path as the method to select the chair. This is an annual process.

Ron Ambrosio noted that often the chair serves two years although an annual renewal is in the bylaws. The Vice Chair might be well served if it was a two year position.

Robert Burke noted that he has a concern that if the vice chair were expected to stay on for two years, this might make it difficult for some people due to unforeseen conflicts that may arise from their employment or other responsibilities.

Farrokh referred to the GWAC by laws regarding presiding over the meeting and decision making, and noted that this is currently addressed in the bylaws. Mark noted that the value of the vice chair would be to groom someone for a future position as a chair. Although certainly as noted by Robert Burke, things can change and the vice chair may not be able to move on as chair if due to unforeseen conflicts.

Mark wondered what the council would like to do.

Stephen Knapp agreed that there are valid points, but things are working well currently and he thought we should leave things the way they are.

Ken Wacks noted that the GWAC Administrator has done a lot to move the committee along, to set the meeting agenda and schedule. He said some chair positions require more responsibility than with the GWAC. Ken said that he has not seen many instances of the GWAC chair being unable to attend and when that has happened another GWAC member was able to step up and assist with the meeting.

Ron Ambrosio said that it would be a burden for a vice chair to serve two years as a vice chair and then be expected to act as chair for another two years. That is a long commitment

Farrokh noted that the Chair position is appointed for one year at a time.

Ron Bernstein said that he would like to hear David Forfia's input on the next call when he returns. He felt that David would have good insight for us.

Stephen Knapp agreed that hearing from David would be a good idea to hear before voting on the vice chair position.

Action: David Forfia to review the discussion and provide comments to the GWAC on the proposed Vice Chair position.

Meeting Minutes

December 18, 2018

GWAC New Members update

Mark Knight noted that there have been some strong candidate submissions for the GWAC member vacancies.

The Selection Committee will consist of Chris Irwin, DOE, David Wollman, NIST, Mark Knight as GWAC Administrator and two GWAC members.

Mark reminded everyone that members serve as individuals on the GWAC and not as representatives of any company, agency or other organization. He asked the GWAC to utilize LinkedIn to increase attention on the GWAC.

Mark Knight noted that the selection panel will consist of the GWAC administrator, Chris Irwin DOE, David Wollman with NIST, and two GWAC member. Ron Ambrosio and Leonard Tillman each volunteered to take this on.

At least two council members will be replaced this year according to the bylaws.

TE Roadmap

The final version of the TE Roadmap is now posted on the GWAC website. Mark Knight expressed appreciation to Stuart McCafferty for this review of the document and the feedback and comments that he provided.

Soap Box Discussion

Mark received a suggestion from a GWAC member that we set aside time on a call for a topic of interest related to GWAC that a member could lead if they had something really interesting related to grid modernization. The speaker would have 10 to 15 minutes during the call for their talk.

Ron Bernstein said that he thought this would be a good way for the GWAC members to learn more about what others are working on. Input could come from members and their associates.

Mark thought this could come near the beginning of the meeting, after the administrative business portion.

Tanya said that as one of the newest council members this would be really beneficial to her. She would like to be able to learn more about the experience of the council members. This would help newer members to gain institutional knowledge about the GWAC.

Ron Bernstein thought the recording of the discussion could be posted on the website or slides presented.

Ron Ambrosio said this might be difficult if we publish the recording publicly, and it might complicate the use of the recording for meeting minutes. Ron also noted that he agrees with Tanya's perspective and that also as a long term member of the council, it would benefit him particularly with learning about some of the newer member's activities and experience.

Meeting Minutes

December 18, 2018

The process of selecting a member for each scheduled soap box would need to be developed. Ron Bernstein suggested a short one or two sentence description be put forth for each 15 minute timeslot. It would be an introductory topic and those wanting to know more could do a follow on call with the presenter.

Ron Ambrosio noted that there are 12 non-chair council members, so each member could theoretically have their month to present in a year.

Ken Wacks said the presenters should not be limited to council members.

Ron Ambrosio said that certainly GWAC associate members should be included.

Tanya thought the presenter should be able to bring a guest for the soap box time.

Mark Knight suggested that in that case the GWAC member or associate would need to introduce the speaker and be responsible for the content.

Ron Ambrosio said he wanted to be sure we are focusing primarily on council members and associates.

Mark suggested we start in them in January or February.

Stephen Knapp offered to do the first one in January. There were no objections. Mark will work with Stephen on this before the January meeting. He suggested the topic of the Digital Twin concept and its current status and where it is going. This has to do with building automation. Ken Wacks said that he has done some work in this area. Stuart McCafferty noted in the side bar that he has some information on this and would be thrilled to share the framework.

Action Mark: Talk with Stephen Knapp about his topic for the first soap box discussion in January.

Tanya would like to do one in February or March. Mark will follow up with her on this and noted her enthusiasm. She noted that on the west coast there is a lot of activity right now in the transactive world.

Action Mark: Follow up with Tanya Barham about doing a soap box discussion in February or March.

Lorenzo also asked for a time slot. He noted that Tanya has some specific projects that are moving ahead and he notes the regulatory processes that are somewhat in the way of the project. He has some ideas on how the regulatory area could help to facilitate the move to transactive in these situations.

Action Mark: Follow up with Lorenzo Kristov about doing a soap box discussion in February or March.

Farrokh would like to have a schedule of upcoming presenters and their timeslots to make people aware. And he thought that if the GWAC could publish an annual summary of the talks that it would be beneficial.

Ron Bernstein advised against putting too many restrictions on the presentations regarding formatting.

Ken said it should be voluntary and if people want to share the information that should be optional and at their discretion.

Meeting Minutes

December 18, 2018

Mark Knight said his perspective was to make the meetings be more interesting and fun and to promote interaction and discussion. He agreed with Ron Bernstein that we don't want to stifle creativity or originality. If it were publishable that would be great but that should not be a constraint on what is presented.

Ron Ambrosio would like to talk about what is going on with Utopus and work in the area of resiliency. He would like to talk to Mark about it after the holidays.

Jeff Katz asked Tanya if her group is working with anything related to Transactive and wildfires. She said they are a non-profit and are looking for business models, practices and policies that can benefit society to create training and information opportunities. They are working with some educational groups in southern California. They are initially trying to find cleaner forms of energy during outages and they see how transactive could be brought in over time.

Jeff asked if he could talk to her later about this – he said they are sponsoring a CPUC Wildfire meeting in March. She will contact him and put him in touch with someone.

2019 TESC Update

- Rooms blocked at McNamara Alumni Center at University of Minnesota for July 8-10
- Executing an MOU with IEEE PES so GWAC can be technical co-sponsor
- Draft budget approved
- Bank account and web site being set up
- Organizing committee

Conference Chair:	David Forfia	ERCOT
Technical Chair:	Farrokh Rahimi	OATI
Industry Chair:	Doug Houseman	Burns & McDonnell
Secretary:	Mark Knight	PNNL
Treasurer:	Ron Bernstein	RBCG
Publications Chair:	Leonard Tillman	Balch & Bingham LLP
Plenary Chair:	Tanya Barham	PECI
Volunteer Chair:	Ellen Anderson	Energy Transition Lab
Technical Committee Members:	Chris Villarreal	Plugged-in Strategies
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The TESC19 budget is set and bank account is being set up.

There is a change to the assignments – Gordon Matthews had to decline due to conflicts and so Tanya Barham is taking that spot with the plenary chair position.

Keynote speakers are needed. Mark Knight asked the GWAC to consider who would make a good speaker and be likely to accept the invitation. Please send him your suggestions.

Action: GWAC to send Mark Knight suggestions for keynote speakers.

Meeting Minutes

December 18, 2018

The call for participation is now posted on the GWAC website with both GWAC and IEEE logos in the header. IEEE will be putting this on their website as soon as they are ready to go live.

Review of upcoming Conferences

Conferences and Events

(**Bold** indicates GWAC speakers)

- **Powergen International, Orlando, FL, December**
- **ASHRAE Winter Conference, Atlanta, GA, Jan 14-16**
- Smart Energy Summit, Austin, TX, Jan/Feb
- **DistribuTECH, New Orleans, Feb 5-7 2019**
- **GWAC Face to Face, Tulsa, OK, February 12/13**
- **IEEE ISGT, Feb 17-20 2019**
- **TESC, Minneapolis, July 8-10**

Smart Energy Summit is Feb 18 – 20 in Austin. Submitted by Ken Wacks.

NARUC meeting is Feb. 10 – 13, for the Winter meeting and it will be in Washington DC.

The call for new members is posted on the GWAC website. Mark noted that the call is scheduled to close January 31, 2019. There is conflicting information on some documents so Mark wanted to clarify the date. He asked members to post the call on their Linked In to help get the word out.

Liaison Reports

Ken Wacks – ISO/IEC JTC 1/SC 25 –their next meeting will be held on April 1, 2019 in Stockholm Sweden. Ken asked Mark Knight if he had any publications that Ken could take forward. Mark said the TE Roadmap would be a possibility. He said we do talk about DER from state to state but we avoided dates. He would be willing to review it with Ken to see if it would be relevant to Europe. Mark is not sure if it would be applicable to them or not.

Action: Mark and Ken to review the TE Roadmap for international publication consideration

Ron Bernstein – ASHRAE – he has 3 speakers confirmed and 1 pending. Mark Knight, David Holmberg, himself and possibly Tanya Barham. The conference will be Jan. 14 – 16, 2019.

Farrokh Rahimi – IEEE PES - ISGT is getting set up with panels and papers. He has a GWAC panel. The meeting will be Feb. 17 – 20, 2019.

Mark Knight noted that also at ISGT the Resilience (Grid 3.0) workshop has a continuation panel on resilience being set up which Ron Melton is setting up. David Wollman, Aaron Snyder, Mark Knight and some utility and maybe DOD participation have been scheduled.

Jeff Katz noted in the meeting sidebar that he is on the ISGT industry advisory committee. He is looking for new types of attendees. <http://iee-isgt.org/industry-advisory-committee/>

Meeting Minutes

December 18, 2018

Chris Villarreal - NARUC and NASIO developed a task force on comprehensive energy planning such as distributed and resource planning processes. State commissions will look more at distributed system planning. The task force is supported by DOE (Joe Paladino). The goal is to have 12 – 15 states in this collaborative.

It is hoped that the outcome will be a document that will assist state planners.

Chris noted that NIST and NARUC have completed their update of the interop framework and the various meetings. Chris thanked everyone who participated in the workshops. The input is very valuable to NIST. Feedback will be reviewed for incorporating into the Interop Framework. The next draft is due out in Feb or March. The next meeting will be held in mid-Feb. in Washington DC. This meeting will serve new commissioners and governors who will be attending.

Chris also noted that GWAC is mentioned in the latest NARUC manual.

Ron Ambrosio, acting for Chairman David Forfia, asked if there was a motion to adjourn. Stephen Knapp gave the motion, Tanya Barham seconded the motion.

Hearing no objections, the meeting was adjourned by Ron Ambrosio.