

Meeting Minutes

June 13, 2017

GWAC Members

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

Ron Bernstein, President, RBCG, LLC

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

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

Mark Paterson, General Manager, Consumer Energy, Horizon Power

Members Not Present

Stephen Knapp, Executive Director at Power Analytics Corporation

Paul De Martini, Managing Director, Newport

Consulting Group, LLC

Doug Houseman, Vice President of Technical Innovation at EnerNex

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

Dave LaVee

Leonard Tillman

David Wollman

PNNL Support

Ron Melton, GWAC Administrator

Mark Knight, GWAC Support

Susie McGuire, GWAC Coordinator

Guests

Ken Wacks, Consultant, Sensus Metering Systems Inc.

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GWAC Face to Face meeting, Portland, Oregon

GWAC Chair, David Forfia called the meeting to order at 9:00am PDT by employing the use of the GWAC gavel.

The proprietary information notice was read by Ron Melton.

Recordings of the meeting were made by both Ron Melton and Ron Bernstein.

Upcoming meetings -

SEPA: There will be a grid architecture working group meeting and also a grid architecture tutorial at the upcoming SEPA Grid Evolution Summit meeting, July 25 – 27 in Washington DC.

GWAC Fall F2F Dates – Oct 25, 26 seem to be the preference. Oct. 9 is Columbus Day. Ron Ambrosio has a meeting on Oct. 28 but will check to see if he can make it work.

David Wollman will check the October dates for NIST and get back to us.

Doug Houseman will check into meeting room availability at his location in Kansas City, Mo.

Australian Power Outage Update

GWAC Associate Mark Paterson from Australia joined the meeting by phone and explained that the country has experienced some serious system blackouts that have been in the news. Merging new technologies on old architecture without much planning or forethought was the cause. There have been major reviews of these events over the last six months which included a full system review. The national transactive energy roadmap that he has contributed to was also looked at by the reviewers.

Ron Melton noted that he has a copy of the Finkel report (Dec. 16), “Independent Review into the Future Security of the Electric Market.”

Mark Paterson mentioned asynchronous architecture and extreme weather events on a fragile system as being key points in the event. There were five major blackouts in South Australia. One took out the entire state. Prior to this the system was seen as robust. Rooftop solar is at about 40% penetration and considered one of the world’s highest concentration of rooftop solar.

Ron Melton noted that Audrey Zibelman (who recently relocated from New York to Australia) has proposed incorporating solar into the national power grid.

It seems that with more uncertainty the more the Australians want to invest in grid security.

Ken asked about battery sales. Mark said there are many battery vendors who have moved to Australian recently. It’s still relatively expensive but in five years that could change. It’s an area of low

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population so many people want to go off the grid. Australia has a goal of reaching 50% penetration of generation by distributed sources.

Roundtable

Ken reminded the group that MIT is holding a space for the TESC18 meeting.

Ron Melton noted that a co-host for TESC18 has not been identified.

Joe Hagerman held a recent a peer review meeting on the Navigant roadmap contract with EERE. It is specifically transactive.

The GWAC roadmap is under review by Rob Pratt, PNNL and also by another PNNL staff member.

Ron Bernstein said some of his collaborators will be interested in the GWAC roadmap. He asked about the differences between the Navigant and the GWAC roadmap. Ron Melton noted that each comes from a different perspective.

Liaison Reports

James Mater: EPRI held an open ADR tutorial and workshop in April with about 80 people in attendance. A lot of industry people were engaged in this event. EPRI wants to understand utility DER communications resources and open ADR protocol to make it more useful for DER beyond demand space. Walt Johnson with EPRI did a nice requirements document on communications for DER. James did a protocol report. There are draft documents that address state of the art protocols and where the gaps are and also showed what utilities are doing today regarding DER for communication. It was a joint activity and James was the chair. It was focused on the transactive energy side. James referenced work by Steve Widergren and David Narang. It was held in Palo Alto.

Ron Bernstein: Open ADR user profiles are building a gateway through the new IP stack. The project is led by a group from a Japanese electric company. At some point Ron will be able to share the document on this.

David Wollman confirmed that in regards to the GWAC F2F Fall meeting, he has located a large conference room near the advanced measurement lab at NIST that would be available for the GWAC meeting. Attendees will need to be escorted. The October dates of 25 and 26 will work.

Ken Wacks reminded the group of an International Standards meeting to be held in Sept in Europe. He wants to know if a GWAC document is ready. Mark said probably said we likely won't have anything ready.

Ron Ambrosio is no longer on the IIC international board now that he is not with IBM.

Closing

Mark Knight noted that TESC17 will start at 12:30pm in the Auditorium.