GridWise® Architecture Council

Meeting Minutes

Aug. 19, 2020

GWAC Members

David Forfia, GWAC Chair

Ron Ambrosio, Independent Energy Transformation Professional

Tanya Barham, Principal, Community Energy Labs

Ron Bernstein, President, RBCG, LLC

Andrew Bordine, VP Energy Mkts & Innovation, Anterix

Ron Cunningham, American Electric Power

Stuart McCafferty, President, GridIntellect

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

Leonard Tillman, Partner, Balch & Bingham, LLP

Aaron Snyder, Director of Grid Technology Consulting, EnerNex

GWAC Members not present

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

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

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

GWAC Associates & Emeritus

Kay Aikin, CEO, Introspective Systems

Rahul Bahadur, Mgr. of Engineering, VMWare

Mark Knight, Burns & McDonnell

James Mater, QualityLogic, Inc.

Jeff Morris, Principal, Energy Horizon Corp.

Chris Villarreal, President, Plugged In Strategies

Ken Wacks, Home, Building & Utility Systems

GWAC Guests

Aaron Smallwood, SEPA

Ramteen Sioshansi

Elizabeth Sisley

Tony Thomas, NRECA

David Toquica, LIREI, Univ. of Quebec

David Wollman, NIST

PNNL Support

Ron Melton, PNNL, Administrator

Karen Studarus, PNNL Administrator

Susan McGuire, GWAC Coordinator

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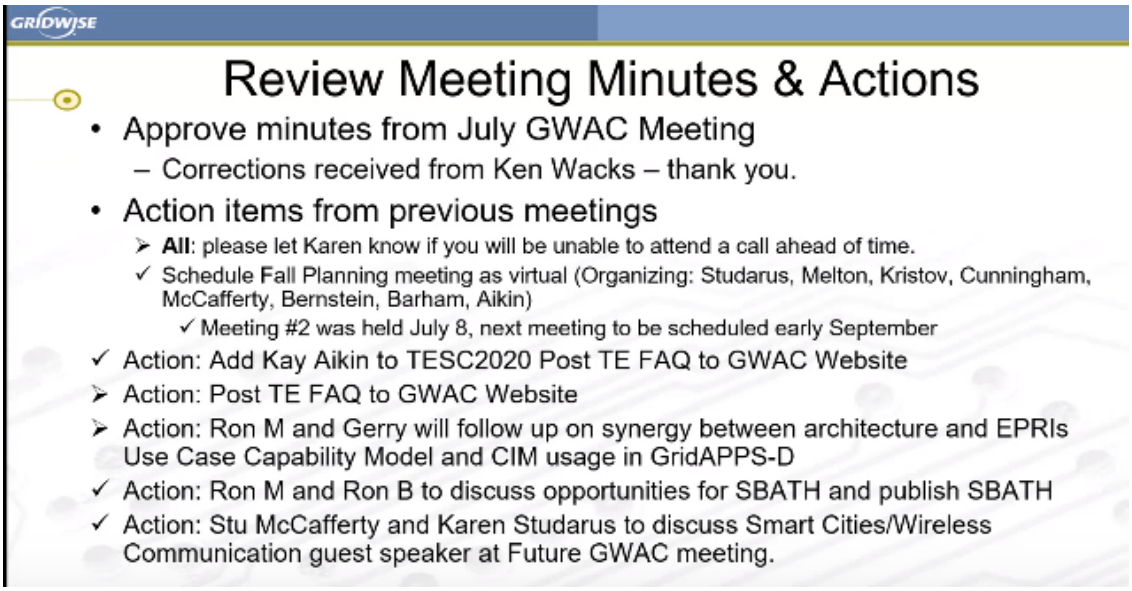
Administrative



David Forfia asked for a motion to approve the July meeting minutes. Ron Ambrosio gave the motion and Andrew Bordine seconded the motion. There was no further discussion, no objections, and the July minutes were approved.

Karen Studarus noted that all five GWAC associates were nominated to continue for another term. There were no new associate nominations. David Forfia asked for a motion to approve them. Ron Ambrosio gave the motion and Tanya Barham seconded the motion. There was no further discussion. The motion was approved with unanimous support.

The five GWAC Associates, Kay Aikin, Rahul Bahadur, Jeff Morris, Mark Paterson, and Chris Villarreal will all serve another term.

An installation ceremony is planned for the GWAC Fall Virtual meeting.

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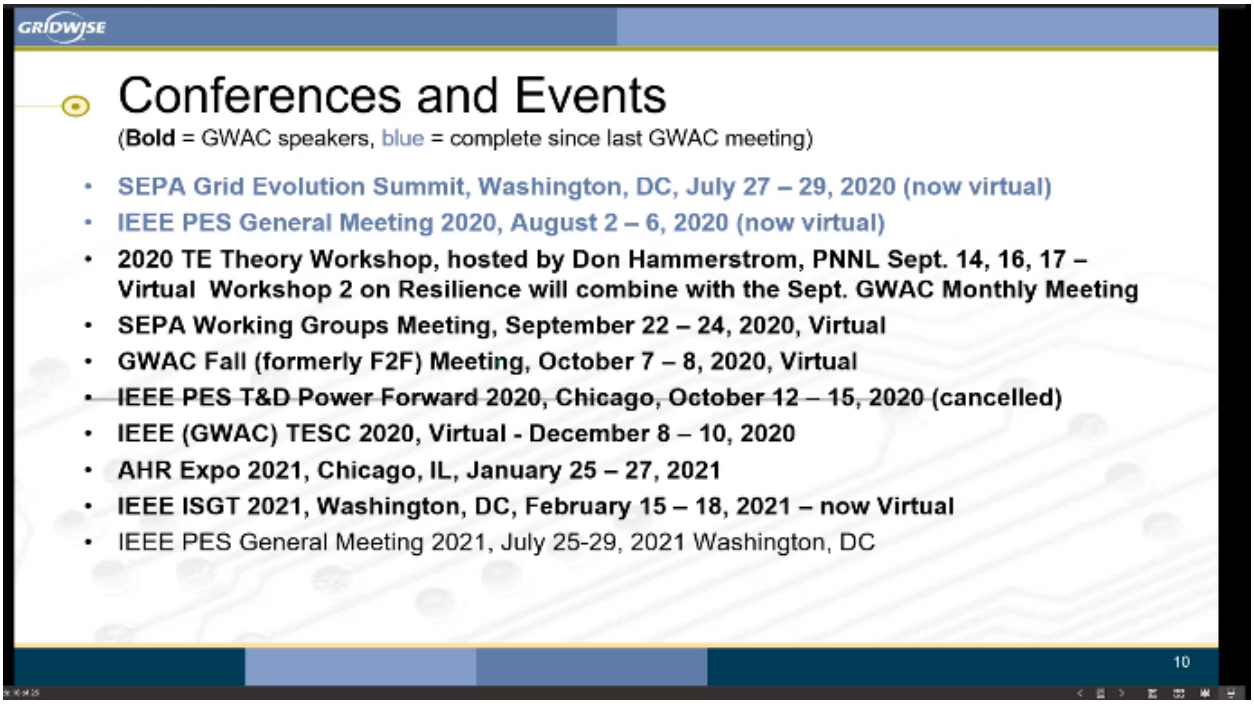

James Mater noted that DistribuTech has been moved to the end of March 2021 and will be held in Orlando, FL.

James requested to add the Solar Power International (SPI) to the meeting and conference list. It is a SEPA involvement. The technical content will be virtual and during the meeting it was confirmed that the trade show portion of the meeting will now also be virtual. https://www.solarpowerinternational.com/ Virtual Tradeshow Oct 21-22, Virtual Education Micro - conferences, Sept. 14 - Oct. 27

Mark Knight mentioned the NARUC affiliated meeting, NCEP, an annual meeting that will overlap a bit with TESC20 on Dec. 7 - 9 and will be a virtual event. Mark Paterson, Mark Knight and possibly Jeff Taft are involved.

Karen said the GWAC refresh is still underway. It is taking a bit longer than expected but is still on track. GWAC feedback has been incorporated. They are working on some technical issues related to ease of maintenance.

Ken Wacks asked about the AHR expo. Ron Melton thought it was still on but there is some uncertainty. AHR https://www.ahrexpo.com/covid

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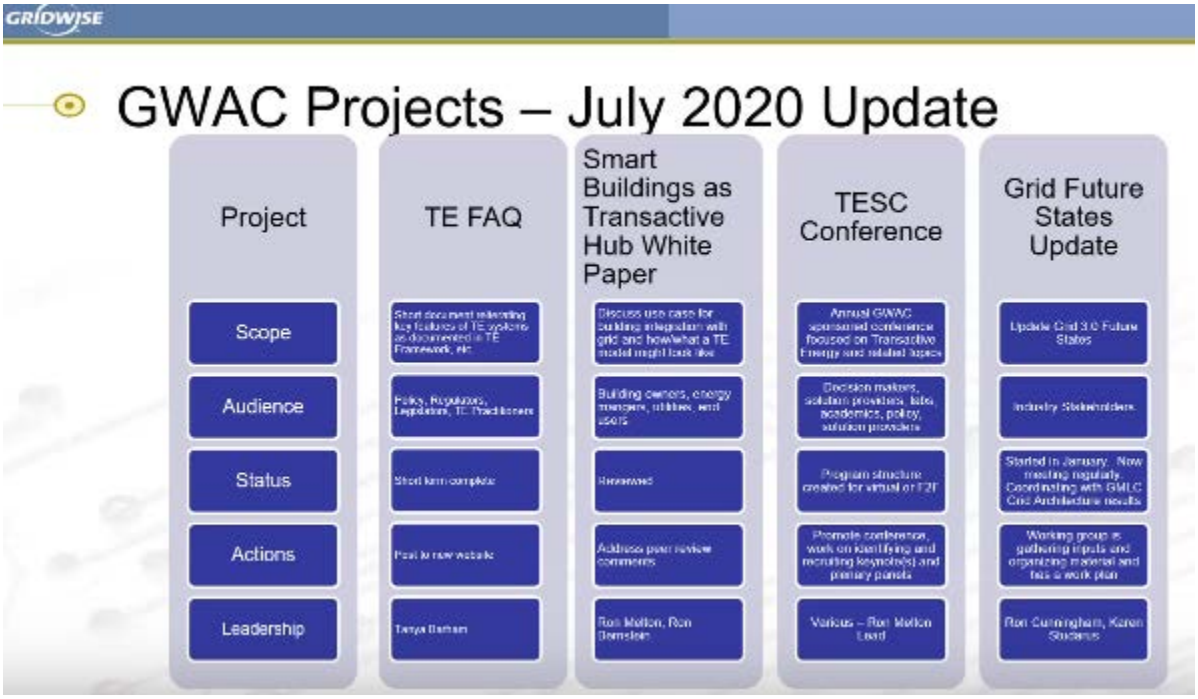
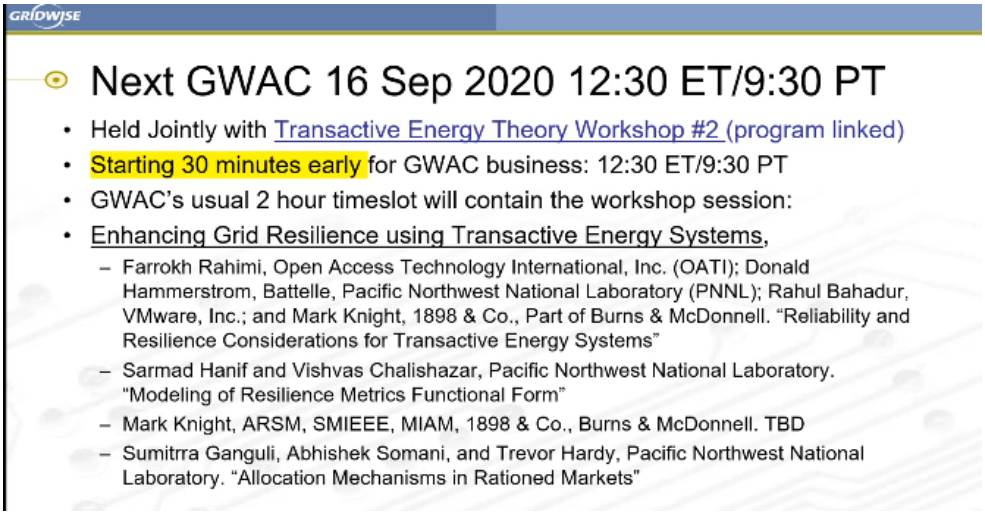


Karen reviewed the GWAC active work products.



Karen noted that several GWAC members will be speaking on the TE Theory Workshop on Sept. 16 which coincides with the time of the Sept. GWAC meeting. The group agreed to shorten the GWAC meeting to 30 minutes and to start it 30 minutes earlier so that GWAC can attend this virtual workshop.

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Action: Susie to reschedule the Sept. GWAC meeting

Karen reviewed the progress on TESC20. The group will identify panel moderators, keynote speakers and finalizing the agenda.

Farrokh noted that 50 paper and panel abstract submissions were submitted, and all have been reviewed. There were 24 panel submissions and 31 paper submissions. There were 18 panel accepted panel submissions and 3 were borderline but will be offered the opportunity to submit a paper.

Paper presenters have been notified and they are writing their full papers now.

Karen feels there should be a session chair for each panel based on how things were done previously. This role will ensure a high-quality panel session.

Farrokh noted that we need to assist panelists with guidance on how to prerecord their sessions.

Kay asked about the regulatory panel. Kay had submitted a paper on that topic which was rejected but would be interested in doing it as a panel on regulatory and policy. Kay has 30~ people from the Maine climate change council and they would likely attend since it's virtual. Maine is in the middle of a massive policy change that will push grid modernization and TE, real-time pricing and more. Kay has been working with the Maine climate change council. Since the conference is now all engineering, she will not invite them. She would like to see the great ideas of the GWAC get out into the mainstream.

Tanya is concerned that we are getting too detailed and it may slow the progress of the conference. She also noted that a comprehensive effort to promote the conference needs to be underway. If we could create a content calendar and starting to promote specific panels on social media now that it will help us to gain participants. She suggested sending specific topic suggestions directly to the abstract committee for them to sort. She feels we should be recruiting participants now with a content calendar and social media announcements about topics and speakers.

Ken Wacks said the abstract selection committee does not choose topics. He asked if the group could address Kay's concern that we should do more outreach to regulators.

Farrokh confirmed that there were no abstracts on regulatory and policy submitted for a panel session. He would like to consider teaming with NARUC to fulfill that topic for this conference.

Kay said there are a lot of people who could be encouraged to put in panel presentations including Lynn Kiesling. Kay said this topic for a panel was discussed in Orlando at the January meeting.

Jeff Morris said he and Chris had offered to put a panel together for this. They would still be willing to work to put a panel together. Jeff has talked with some people from Maine also and he would be willing to work on this if the Council wants it to happen. He said there is still enough time to do it.

Ron Melton said that it should be discussed further at the next TESC20 organizing committee meeting.

Chris Villarreal said he would be happy to help on regulatory; the challenge is the conflict with the NCEP meeting (affiliated with NARUC), which is why he and Mark Knight have been working on trying to have a shared meeting. The NCEP is also a 3-day meeting.

Chris also noted that for NCEP, the potential joint Session for Dec. 8 would be from 12:15pm to 2:30pm and would be live. He and Mark would be happy to coordinate with TESC20.

Kay said that regulatory legislators must understand what the play space is with TE.

Karen thought it best to defer a decision until the TESC20 Organizer meeting on Monday.

David recognized that we now have enough volunteers willing to work to make this happen.

Farrokh said he welcomes the suggestions and appreciates the enthusiasm. He is supportive.

Andrew Bordine also expressed his experience in this area and offered his help. He knows some of the technical commissioners. He feels it is a great idea to include this in TESC20.

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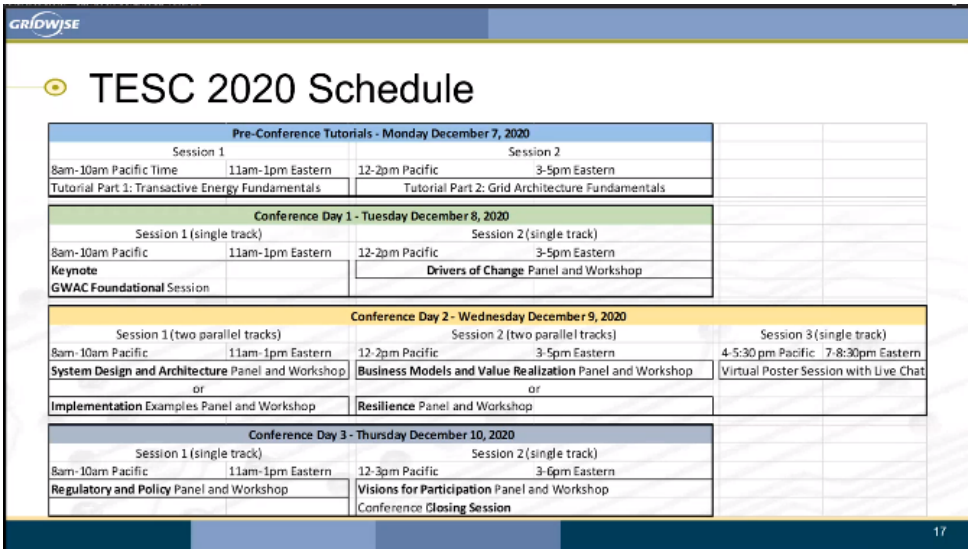


TESC 2020 Schedule

Pre-Conference Tutorials - Monday December 7, 2020			
Session 1		Session 2	
8am-10am Pacific Time	11am-1pm Eastern	12-2pm Pacific	3-5pm Eastern
Tutorial Part 1: Transactive Energy Fundamentals		Tutorial Part 2: Grid Architecture Fundamentals	

Conference Day 1 - Tuesday December 8, 2020			
Session 1 (single track)		Session 2 (single track)	
8am-10am Pacific	11am-1pm Eastern	12-2pm Pacific	3-5pm Eastern
Keynote **GWAC Foundational** Session		**Drivers of Change** Panel and Workshop	

Conference Day 2 - Wednesday December 9, 2020				
Session 1 (two parallel tracks)		Session 2 (two parallel tracks)		Session 3 (single track)
8am-10am Pacific	11am-1pm Eastern	12-2pm Pacific	3-5pm Eastern	4-5:30 pm Pacific 7-8:30pm Eastern
System Design and Architecture Panel and Workshop		**Business Models and Value Realization** Panel and Workshop		Virtual Poster Session with Live Chat
or		or		
Implementation Examples Panel and Workshop		**Resilience** Panel and Workshop		

Conference Day 3 - Thursday December 10, 2020			
Session 1 (single track)		Session 2 (single track)	
8am-10am Pacific	11am-1pm Eastern	12-3pm Pacific	3-6pm Eastern
Regulatory and Policy Panel and Workshop		**Visions for Participation** Panel and Workshop Conference **Closing Session**	

Karen noted the agenda and other technical topics.

Ron M. noted that the panels will be recorded, and the Q&A workshops will be live. We will need 1 or 2 moderators for each topic area. Also, we need to develop key questions for discussions for the workshop that will be needed to guide the discussion.

Kay Aikin offered to moderate the Regulatory and Policy topic.

GWAC members are asked to volunteer to lead or support a session. Please let us know now or the organizers will assign members to panels.

Andrew Bordine asked to assist Kay with the Regulatory and Policy Session.

Tanya suggested that we feature a topical area of the conference each week and send it to the group to put on their social media on a regular basis.

The budget should be coming out soon with the reduced registration cost and once approved by IEEE we can open registration.

Andrew Bordine asked to also be on the promotional group. His company has a large marketing department and maybe able to help with social media coverage to a larger audience.

Ken asked about sponsorship opportunities and Karen said those are being worked out.

Stuart McCafferty said he would prefer “Drivers of Change or System Design and Architecture.”

Tanya Barham said she would like Vision for Participation.

Rahul Bahadur said he could do “Drivers of Change” if it is still available.

Aaron Snyder offered to lead Regulatory and Policy. (Per Karen's notes)

Jeff Morris said that he would like to stay with the Policy Regulatory track if it moves.

Chris Villarreal said to include him on Regulatory and Policy.

Action: incorporate all volunteers into their appropriate groups. Kay Aikin, Chris Villarreal, Andrew Bordine, Aaron Snyder and Jeff Morris all volunteered to chair or assist with the Regulatory and Policy Panel. Stuart McCafferty and Rahul Bahadur offered to lead the Drivers of Change or System Design and Arch panel. Tanya Barham offered to lead Vision for Participation. Andrew Bordine offered support promotional activities and social media.

UPDATE: a special session on Regulatory and Policy was held on Aug. 21. Karen lead the session; attendees: Farrokh Rahimi, Kay Aikin, Chris Villarreal, Lorenzo Kristov, Andrew Bordine and Susie McGuire

David Forfia suggested a virtual lunch and lanyards for participants. He also suggested that we agree to go broader and then to discuss this issue more in depth in the organizing committee meeting.

Kay noted that Regulatory and Policy had been discussed at the GWAC Orlando meeting earlier this year noting that the goal is to get policy and regulation conversations started for people who need to implement changes at the policy level.

Jeff Morris said he recalled the discussion and said he would be willing to work more on this issue. He has talked with his contact in Maine about this. He feels we can put a panel together on this if Kay agrees.

Ron M. reminded the group that the next TESC20 organizing committee is scheduled for this Monday. We can discuss this on that meeting.

David Forfia acknowledged the interest level and enthusiasm from the group and feels there will be enough people to make this change.

Farrokh Rahimi thanked the group for their interest and welcomed their participation to make this happen.

Andrew Bordine offered to join the Monday meeting.

Ken Wacks commented it's not out of the GWAC scope to have a regulatory panel for IEEE.

David also noted that he sees it as within scope for IEEE.

Ron M. added that GWAC is a component of TESC20 and can generate topics in the interest of GWAC.

Promotional materials were discussed, and Karen noted that IEEE may be able to help but the council needs to provide support.

Tanya B. said that she will not be able to help this year with the promotion effort.

Karen noted that the IEEE registration fee structure is forthcoming and then registration can begin.

Andrew Bordine said his company has a large marketing group and he offered to assist with promotion and opportunities. He mentioned Linked In and may be able to help with fees.

Ron M. commented that Andrew's company and others may wish to be an official sponsor of the conference.

GWAC Activity Matrix

Ron M. commented that the SBATH white paper is now final and is posted on the GridWiseAC website.

He and Ron Bernstein will be looking at ways to use this document further.

Tanya said that the FAQ committee is now working on a longer format. They are meeting weekly and in the next couple months they hope to have the final first draft for the council. The plan is to have it out on the GWAC website.

Karen reminded everyone that the next GWAC meeting will begin 30 minutes earlier than scheduled and will last for only 30 minutes so that the GWAC can join the Transactive Energy Systems Theory Workshop 2. The workshop will be hosted by Don Hammerstrom, PNNL. This workshop has been held in previously during TESC conferences.

Action: Susie to resend the GWAC meeting with the new time and to send the invitation to TE Theory Workshop 2 (complete).

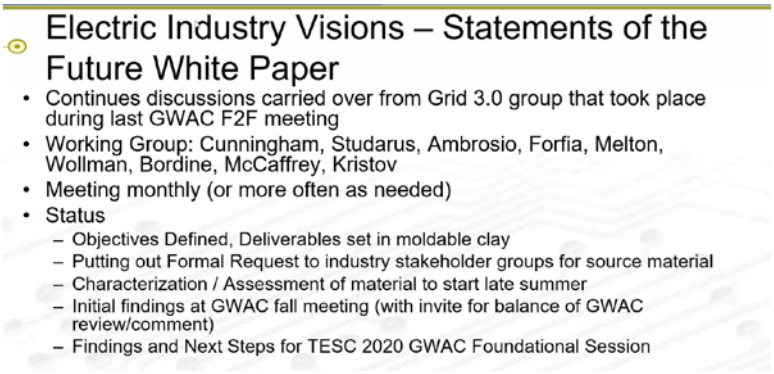
David Forfia thanked Karen for leading the meeting today.

Stuart McCafferty noted that he has spoken with Karen S. about the CTIA briefing to be on the GWAC November call. Michelle James, VP with CTIA will be the guest speaker. It would be a 30-minute presentation.

David said he has a concern about the timing. Stuart said it could be pushed out if needed but he would like to get back to Michelle about scheduling.

Action: Susie - Schedule November GWAC meeting (complete)

Future States update

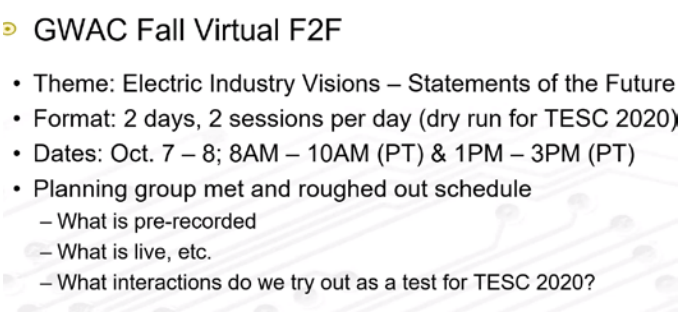


Ron Cunningham said the Future States group will meet this Friday. They are starting to take input and do the assessment and characterization of it. They hope to have something to share with GWAC for the Fall meeting. They will build from there for the December meeting.

Ron M. said he got a response from the Canadians and he forwarded it to Ron Cunningham.

Farrokh Rahimi sent an email saying that he would like to be included in future planning meetings for this topic.

Action: Karen S. or Ron C. to add Farrokh Rahimi to the Future States planning committee.



The GWAC Fall Virtual F2F next planning meeting will be held Sept. 2

Ron M. noted that details for breakout sessions with Zoom or Teams will discussed. If anyone has tips on breakouts it would be appreciated.

David F. said he is participating on another virtual conference and they decided not to do the breakout rooms in Zoom after reviewing it. He said you can't preassign people to rooms. He recommends practice session in advance of the December meeting.

Liaison Reports

NIST - David Wollman noted that the draft framework 4.0 was sent to GWAC. They are still working on getting the federal register notice. He said comments that come in for the initial posting will be

addressed in an organic way and then later comments will be taken in a more traditional way. They are hoping for lots of feedback.

David provided a link to a recent NERC bulletin - it includes a schedule for cybersecurity framework to map to their liability standards.
https://www.nerc.com/pa/comp/news/Documents/2020_07_27_StandardsCompliance_Bulletin.pdf

ISO/IEC JTC 1/SC 25 - Ken Wacks thanked Mark Knight for his help with the TE Framework. All tech reports must be put in the format of a standard. Certain words like shall and must have to be deleted. So work is still going on the framework. Mark gave an opinion about a remaining word "must." Richard Cook is the current editor.

Ken said the next ISO/IEC International meeting will be held on Sept. 14. He is chairing the committee and can invite guests. Anyone wanting to become a member or to participate please contact Ken.

SEPA - Aaron Smallwood; SEPA held the virtual grid evolution summit. It was the first one they have done as virtual. Attendance was 541. The online and on demand contact was released on July 12. On Sept. 22 - 24 the working groups will meet. Non-SEPA members will have a registration fee of $199.

Aaron noted that the SPI meeting will be all virtual this year. Content will be spread out. The program is coming together very well.

The SEPA catalog of standards is coming along and a press release will go out. From SGIP there was a nice user interface that is the inspiration for the user interface for the catalog of standards.
https://sepapower.org/knowledge/sepa-updates-key-industry-resource-for-smart-grid-standards/

Aaron noted "Standards are the necessary first step towards interoperability. "Each standard in the Catalog has undergone a thorough industry stakeholder vetting process focused on interoperability, grid architecture, cybersecurity and other elements."

Ward Camp EBC - no updates

NARUC - Chris Villarreal: The next NARUC meeting will be Nov. 8 - 11. He said the next policy meeting is scheduled for Dec. 7 - 9 and he is working on the agenda. The plan is to team with the TESC 2020 meeting. All meetings will be in the afternoon Eastern time. Topics will continue from last year's meeting. They will focus on the development of distribution level market; how they are paid for and what cost analysis should be considered. The DER standard practice manual is also a topic.

Karen asked if any guests would like to introduce themselves. There were no new guests.

David Forfia began the adjournment and noted that the meeting is ending 34 minutes early.

Stuart McCafferty gave a motion to end the meeting and Ron Ambrosio seconded the motion.

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