GWAC Members

David Forfia, GWAC Chair
Kay Aikin, Introspective Systems
Ron Bernstein, President, RBCG, LLC
Andrew Bordine, VP Energy Mkts & Innovation, Anterix
Ron Cunningham, American Electric Power
Lorenzo Kristov, Principal, Electric System Policy, Structure, Market Design
Stuart McCafferty, President, GridIntellect
Ahlmahz Negash, Sr. Engineer, Tacoma Power
Farrokh Rahimi, Senior Vice President, Open Access Technology International, Inc
Aaron Snyder, Dir. of Grid Tech. Consulting, EnerNex
Leonard Tillman, Partner, Balch & Bingham, LLP

Gerald R. Gray, Sr. Program Manager, Electric Power Research Institute (EPRI)
Jeff Morris, Principal, Energy Horizon Corp.
Mark Paterson, CSO, Strategen

GWAC Guests

Fatima Amara
Mohseni-Bonab, Seyed Masoud (Hydro Quebec)
John Chowdhury
Christopher Fleck
David Katz
Jaime Kolln, PNNL
Dave LeVee, PwrCast
Seemita Pal, PNNL
Alex Papalexopoulos, ECCO International
David Wollman, NIST

PNNL Support

Karen Studarus, PNNL Administrator
Susan McGuire, GWAC Coordinator
Ron Melton, PNNL

GWAC Associates & Emeritus

Rahul Bahadur, Mgr. of Eng., VMWare, Inc.
Mark Knight, Burns & McDonnell
Chris Villarreal, President, Plugged In Strategies
Ken Wacks, Home, Building & Utility Systems

GWAC Members and Assoc. not present

Ron Ambrosio, Independent Energy Transformation Professional
GWAC Administration

David Forfia opened the meeting as 12:05 central time.

Karen Studarus reminded everyone about the TE Theory Workshop by PNNL in September. All GWAC participants will be invited to attend. To accommodate the workshop the GWAC meeting will be shortened and moved up. The GWAC meeting for Sept. will be rescheduled to be from 9:30am to 10:00am on September 15. Then the meeting will adjourn so that GWAC participants can join the TE Theory Workshop.

Karen noted that edits to the June GWAC meeting minutes were submitted by Ken Wacks, Leonard Tillman, and Gerald Gray. Susie McGuire noted that all changes have been incorporated.

David Forfia asked for a motion to approve the June meeting minutes as amended, and Leonard Tillman gave the motion and Kay Aikin gave the second. There was no further discussion and no objections. The meeting minutes were approved.

Kay Aikin and Stuart McCafferty reviewed the new blog post effort on decarbonization. Stuart McCafferty is the Chair of the group and Kay Aikin is the Vice Chair.

Kay gave a short presentation.

Blog Working Group Purpose

- The GWAC Blog Committee works with GWAC members and supporters to:
  1. Identify content subjects to publish on the GWAC blog
  2. Coordinate content development with GWAC members and supporters
  3. Schedule and coordinate content posting
  4. Coordinate and support social media awareness of blog posts

In time this could become a white paper, but for now get the group can get more outreach through social media and parse the large and varied amount of content from the group participants out in blog posts. The group will identify content for the blogs.

The group created a mission statement and a general disclaimer to create some ground rules. Dissenting opinions can also be posted. No organizations should be disparaged, however.
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Kay has one almost ready to go now and another one is nearly complete. Kay asked GWAC participants to push the blogs through their own social media channels as they are released.

Karen mentioned that the blogs should be reviewed by the council before release.

Kay said the group is interested in any GWAC participant who would like to contribute to a blog to do so. He gave the example of Larisa contributing to a regulatory blog. Kay asked that at least one GWAC member or associate be involved with each blog. The blog committee will coordinate development, review proposed subject matter and set up a review process for GWAC approval before release. The Blog Group will coordinate with David Forfia and Karen Studarus about the publication date. Kay reviewed additional objectives and disclaimers for the blog work group:

Blogging Disclaimers and Participation

1. Blog mission statement: The views presented in the GWAC blog are provided to allow people to express their opinions, help generate discussion, and are an extension of conversations within the Council.
2. General disclaimer: The viewpoints presented in this blog are the personal views of the authors who are members, associates, and friends of the GridWise Architecture Council. These viewpoints are opinions and do not necessarily represent the consensus of the Council, the endorsement of the Department of Energy, or those of the companies they work for.
   1. Non-GWAC members may provide blog content. However, all blog content must include at least one current GWAC, emeritus, or associate member contributor.
   2. Blog content will be reviewed by the committee with the following intent:
      1) Ensure grammatical correctness
      2) Ensure factual correctness
      3) Provide help to author(s)
      i. Other reference materials
      ii. Other opinions, however, the author(s) are under no obligation to use those opinions. If there are disagreements on opinions provided in the blog content, the reviewer(s) are welcome to create new blog content with their own opinions.
   4) Ensure consistency with GWAC ideals and reputation as much as needed
   5) Ensure no individuals or organizations are disparaged within the content
   3. No comments from readers will be allowed due to increased administrative burden and challenges on which content is appropriate and which is not.
   4. GWAC monthly meetings will include short report of requested content subjects, committee status information, and new postings

All blog posts will be reviewed by the Blog Committee before release.

David Forfia said that he supports this approach.

Larisa Dobriansky suggested content on deregulation and Kay Aikin is working with her on that blog post.

Kay Aikin said that the name of the group was Infrastructure Challenges to Decarbonization.

Lorenzo Kristov asked if the primary focus of this work group is decarbonization or if this group represents the whole of GWAC?
Stuart said this now a GWAC blog and focus of this work group is currently on Decarbonization, but if you are a GWAC member and you have written about another topic, this group can find a place to host it and they will facilitate the process. It does not have to be on decarbonization but would need to be relevant to GWAC.

Lorenzo thought that sounds good. He said that his work group has been focused on Grid Architecture in the policy arena. He said that also is a large group and broad topic area. He said that this blog approach might be better for that group at this time as well. Since they have been somewhat overwhelmed by the size of the scope.

Kay Aikin agreed, saying that “bite sized chunks on a bigger problem” is where they were at. They can collect 4 or 5 blog posts with several authors and later it can become a paper. This way will allow the group to start writing sooner in smaller chunks.

Stuart said this can also mean more frequent releases and more conversations with non-GWAC members. He said he realized this from David Forfia’s enthusiasm for blog posts.

Ron Bernstein said that his first post should be ready later this week. He likes Kay and Stuarts idea and is supportive of it.

Stuart said that as a GWAC member he hopes that everyone could publish one thing annually.

Karen noted that there is a GWAC twitter account. Stuart said that the working group could manage the Twitter account. Karen said the social media channels can be controlled by the committee.

Kay said that key words and hash tags could be determined by the committee and they could cross reference. Some detailed thought about the hash tags should be determined by the committee. The group would have some detailed thought about what the hash tags are and then distributed to the GWAC for inclusion.

Ron B. said a headshot of the post author would be good in addition to a relevant graphic about the post. Ron has two twitter accounts and a LinkedIn account. He said they are easy to use for blog posting. He said the photo can be in the blog post at the link provided.

Kay said if you embed in Word Press correctly it will be done automatically.

Karen suggested continuing the conversation offline about posting logistics.

David said the GWAC Twitter handle is the voice of the Council. It’s not a personal account and should reflect the policies of the Council. Susie has access to the GWAC Twitter account.

Karen talked about the upcoming TE Theory Workshop in September. The agenda is not yet available. This is a continuation of the previous workshop by PNNL’s Don Hammerstrom. She noted the GWAC meeting for September will be from 9:30am to 10:00am PDT and will only cover GWAC administrative business. Then GWAC attendees are invited to attend the workshop. There will be two or three
workshops depending on the number of abstracts submitted. They are currently scheduled for Sept. 15, 16 and 17 from 10:00am to Noon PDT.

**Conferences and Events – Page 1 of 2**

(Bold = GWAC speakers, blue = complete since last GWAC meeting)

- NARUC Summer Policy Summit, July 18 - 21, Denver, CO
- Grid Evolution Summit July 26 – 28, 2021 (virtual)
- Smart Energy Summit 2021, Virtual, Apr. 28, Aug. 4, Oct. 27
- IEEE PES General Meeting 2021, July 25-29, 2021, Virtual
- Grid Evolution Summit, SEPA, July 26 – 28, 2021, Virtual
- **GWAC F2F – Fall Meeting: Discuss location**
- NARUC Annual Meeting, Nov. 7 – 10, 2021, Louisville KY

**Conferences and Events – Page 2**

(Bold = GWAC speakers, blue = complete since last GWAC meeting)

- DistribuTech 2022 – Jan 26 – 28, 2022, Dallas, TX
- ASHRAE Winter Conference, Jan 29 – Feb. 2, 2022, Las Vegas, NV
- AHR Expo, Jan. 31 - Feb. 2, 2022, Las Vegas Convention Center, NV
- IEEE ISGT 2022, Washington, DC, February 21-24, 2022 – face to face format
- IEEE PES T&D, April 25 – 28, 2022, New Orleans, LA
- IEEE Rural Electric Power Conference REPC, Cleveland OH, May 17 – 20, 2022
- **TESC2022 – tentatively scheduled for May 3 – 5, location to be determined**

**Action:** Susie to add the ISO/IEC meetings to the GWAC slide.

David Katz sent a link to the CEATI conferences web page [https://www.ceati.com/events/conferences/](https://www.ceati.com/events/conferences/). He said there will be several US participants at most of these meetings.

**Action:** add the CEATI site to the GWAC Conference list.
Karen and Kay noted that the TESC 2022 planning committee has been meeting twice a month. Keynote speakers are being contacted. One speaker has already confirmed enthusiastically to Kay, - Ahmad Faruqui.

The conference title and theme will be, “Transactive Energy Systems conference 2022: Grid Architecture to Distribute, Decentralize and Decarbonize the Grid.” The meeting is transitioning from being centered around Transactive Energy to being centered around Grid Architecture.

The committee has decided not to change the TESC conference name or logo this year but instead to add the theme to the title.

Karen suggested asking Chris Irwin to ask Sec. Granholm to be a keynote speaker.

Karen said the idea proposed is to have a keynote speaker on each of the 3 days.

Karen reminded the GWAC members that each should expect to moderate a panel session. Whether you attend the TESC 2022 Organizing committee or not, you will be needed to host a panel or poster session.

Farrokh Rahimi has agreed to be the TESC 2022 technical chair again this year.

It’s always better to have volunteers for conference assignments rather than asking the conference chair to individually recruit volunteers.

Ron Melton said the call for panels for the ISGT was extended to the end of July so there is time for additional panels to be proposed. Paper submissions are due at the end of August.
Ron Bernstein said that the ASHRAE Winter conference also has a potential panel for GWAC to present on buildings as a Transactive Energy Hub. Two committees are sponsoring it and Ron B. is the chair and David Forfia will be one of the speakers if it is accepted. We would need three other speakers to join. It will hopefully be selected. It will be held in Los Vegas.

**Action:** Ron B. and David Forfia to keep GWAC informed on the possible GWAC panel at the ASHRAE Winter Conference.

Seemita Pal, PNNL, posted a link in the chat for the call for panels on ISGT. Ron M. said they would love to see two panels come in from GWAC. [https://ieee-isgt.org/2022-isgt-na-call-for-panels/](https://ieee-isgt.org/2022-isgt-na-call-for-panels/)

Ron B. asked if the AHR Expo has contacted us about co-promoting their topics and Karen said they have asked about co-promoting a few months back but nothing since then.

Ron B. clarified that the AHR Expo and ASHRAE are slightly different events that are held at the same time and location.

Ron B. said that with the AHR Expo there may be chance for GWAC to present in a two hour session and the session is less formal and there is no vetting. Often Monday afternoons are available. Karen asked about GWAC doing a panel session on a paper that has been written.

Karen asked if at ISGT or ASHRAE if we could talk about existing papers or if it has to be new material?

Ron M. said ISGT is not academic, it is geared to industry. He said usually GWAC uses topics that are already created or in the process of development. Seemita said that Transactive Energy and Grid Architecture topics are welcome.

Karen suggested that either Future States, or Grid Architecture should work and the material is already in development.

Farrokh thought that both were excellent ideas.

Karen will draft and circulate an abstract. Anyone willing to speak can contact her. David said he would help with the abstract development. Farrokh said the template is on the website.

**Action:** Karen and David to create an abstract for ISGT. Ron B. would be interested if the topic includes “building to grid architecture.”

Ron M. clarified the “3D” theme for the 2022 ISGT refers to, “Decarbonized, Democratized, Decentralized.”

Farrokh said the GWAC panel could be a proposed plenary panel if it covers all three of these. Ron M. said the organizing committee is still discussing possibly having a single track conference.

Ron B. said he would be interested in participating if a presentation on “building to grid architecture; impacts on decarbonization,” was acceptable. Farrokh and Ron M. both agreed that would be an excellent topic.
Ron M. noted that there will be a meeting of the IEEE PES Smart Buildings technical committee on loads and customer systems at the annual meeting.

Lorenzo asked about the word democratized. He just isn’t sure what it commonly means. He asked what people mean with they say a democratized grid? Karen said it is from the ISGT meeting not the TESC 2022 meeting.

Ken thought it had to do with decentralization which comes with control moving to the edge. Karen agreed but said there is more to it. Karen and Ken agreed there could be some sensitivities to it.

Karen mentioned that the GWAC history slides that highlight past milestone products, are available to GWAC participants to use. She noted that the GWAC Interoperability Constitution review has gotten delayed but it is on her list to look at it again and consider it for an update.

Ron Bernstein said he pulled documents from the GWAC website.
Action: Karen to start an effort to review the Interoperability Constitution with Jaime Kolln and consider it for a rework.

Karen reviewed the GWAC Activity Matrix and noted the update on Decarbonization has been discussed.

Lorenzo said he will talk with his group about also moving to a blog format. He will contact Stuart and Kay about it and then talk with the group member more about it and if they are interested in writing some blog posts.

Karen told Lorenzo that Kay and Stuart are contacts regarding the blogs. Lorenzo noted that Kay is also a member of the policy group.

Karen noted Seemita Pal’s current work a GWAC white paper will incorporate PNNL grid architecture work, and GWAC products. The goal of the publication is to introduce people to Grid Architecture and help them find a place to begin. It will tie together examples and best practices. An outline will be circulated through GWAC for review and edits.

Ron Cunningham commented that the title of the Grid Arch Primer reflects a current SEPA effort that Seemita is also involved with. Karen said that she would check with Seemita on the title. This is not a duplicate of the SEPA work.
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Action: Karen and Seemita to talk and retitle the GWAC white paper activity on the GWAC matrix.

Ron Cunningham gave an update about Grid Future States. Currently the group has completed the data gathering and assessment of 7 different sourced future states and there may be two more that could be added but they will press forward on mapping and characterization of these so they can pull out architecture gaps and similarities. They are now into the serious part of finishing the assessment and will begin writing the paper. Summer has not been a good time to get people together but hopefully in the fall they can make more progress.

Karen asked Ron C. if the blog effort might be good for intermediate work for this committee. Ron said the plan is to get the white paper out soon. He is still pressing forward with it. He commented that it may be a little early for this to be a panel session at ISGT.

Karen noted that the website progress is still slow. She said they are building a blog page. The page will move to a new URL once approved. Internal PNNL approvals are required. Some of the approvers are constrained by staff availability. Karen will send the internal link to GWAC before the site goes live.

Ron B. asked if DOE is giving us any new direction under the new administration. Karen said that she will talk with Chris Irwin in the next week. She is encouraged that the administration is moving in the direction of GWAC. Ron B. said he is interested in what topics will be emphasized.

Mark Knight said that he and Chris have had some discussions about new directions while he was the GWAC administrator. They had discussed interoperability and Transactive Energy and were discussions in the past about new directions. He would be happy to go over these conversations with Karen. Karen said the pivot has been to Grid Architecture recently. She said she would like to talk to Mark more about that.

Action: Karen Studarus and Mark Knight to discuss DOE’s ideas for GWAC future direction.

Ken said he hopes that grid architecture is understood. It is a rather abstract concept.

Karen said that is what our new white papers will address.

Ron B. said if we have alignment with something more near term regarding infrastructure investment it would be helpful. He said incremental steps in line with the North American Power Grid. Where could we make contributions? Knowing if funding will go to modeling, pilots, demos and about new ways to do things such as thinking about how things should be done would be of benefit. He said there may be some minor alignments that we should be thinking about, perhaps at the next GWAC F2F meeting.

Lorenzo said CA PUC just opened a new rule making and gave a link to their paper on preparing for a high DER future. They are posing many questions that they want comments on. They asked if the discipline of Grid Arch should be considered. There is also a white paper that compares DSO models. It is a grid architecture pursuit. They have asked if whether their consideration in this proceeding should utilize the discipline of Grid Arch, and if so how? There is also a white paper link that is a little out of date but compares DSO models. Comments are due Aug. 16. Lorenzo is engaged in providing comments
with The Climate Center, but he would like to have a conversation with GWAC as well. He’d be happy to participate in a call on this topic. Karen suggested a side meeting that Lorenzo could lead on this topic. Lorenzo said the GWAC regulatory group that he chairs should be interested. He invited everyone to look at the order itself before the call.

**Action: Karen and Susie to schedule a GWAC side meeting about CA PUC’s call for input.**

**Liaison Reports -**

**ISO/IEC - Ken Wacks:** Ken noted that the semiannual standards meeting of ISO/IEC JTC 1/SC 25/WG 1 “Home Electronic System” is scheduled for the week of Sept. 13 via zoom and will meet most of that week and continue into the next week, culminating in a plenary meeting on Sept. 24. In the Plenary all the national delegates gather virtually in a UN style meeting. They will vote on resolutions to advance proposed standards developed by the committee that Ken chairs as well as related committees that are working on microcomputer interfaces, building structured cabling, and terminology. His committee is responsible for IoT-related standards for homes and buildings, and also on important applications including energy management. The committee has developed and published 55 standards and technical reports since being established many years ago. Their energy management standards are focused on “customer-centric energy management,” as opposed to “utility-centric energy management.” Although their standards accommodate existing programs like direct load control of HVAC and water heaters, these standards are really setting the groundwork for promoting intelligence on-premises so customers can manage locally generated wind and solar power plus storage. In addition to managing local on-premises power, customers can also draw upon power sources outside whether from neighbors using Transactive Energy or from traditional utilities. The customer is responsible for making decisions about what their priorities are for allocating power to achieve the overall goal of establishing their desired level of comfort and service balanced against constraints such as their budget or other personal choices like minimizing greenhouse gasses. The group feels that consumers are better than utilities at making these fine-tuned decisions. The keys to enabling customer choice are these ISO/IEC standards and the products that industry will develop, whether for energy management or consumer electronics. Ken encourages anyone interested in these topics to please contact him about joining the effort and participating in September (contact data are available at kenwacks.com).

**Ken Wacks - IREC:** The Customer Grid Edge (CGE) committee has been meeting every other week. There is a new webpage for Customer Grid Edge. On this website eight presentations are posted including an active ongoing discussion in the last 3 sessions on economics for pricing electricity. Two different views have emerged. One is controlling price to shape the load; the other is trying to motivate load shaping by careful management of DER. The former was presented by economist Dave LeVee, formerly with Portland General Electric, and now the CEO with PwrCast; the other was presented by Dr. Robert Cruickshank with the Society of Cable Telecommunications Engineers, a subsidiary of CableLabs. There was a 3rd session that Kay Aikin moderated to highlight the similarities and difference in these two approaches.
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The CGE meetings will resume September 10. The CGE committee meets every other Friday for 1.5 hours beginning at 1:30 PM Eastern time. The CGE website has a place where you can sign up to get involved. Just visit irecusa.org, click on “Our Work,” then “Customer Grid Edge.” There is no cost to participate and no membership requirement – just sign up just to stay updated.

David Forfia noted that the North American Smart Energy week and Solar Power International meeting will be face to face in New Orleans this year. Housing is run like it is during DistribuTech. You have to reserve a hotel through the designated provider. The dates will be Monday Sept. 20 - 23, 2021.

David Forfia for SEPA; SEPA is hiring - please see the link in Aaron Smallwood’s notes posted at the end of the meeting notes. There are several open positions. If you know someone who is interested please route them to the recruiting site for SEPA.

Ahmed Mousa (PSE&G) has assumed leadership of the Cybersecurity Working Group.

Next month Danish Saleem, NREL, will speak to the group in July, and Seemita Pal, PNNL, will speak in August, each will speak on their organizations current work in Cyber security.

There is a new Transactive Energy working group chair - Mark Knight has decided to transition away from that role and Trevor Hardy, PNNL, will take over that working group for Mark on Sept. 17. Trevor will also take Mark’s spot on the SEPA Research Advisory Council. Mark will still be active in SEPA but not as much. Mark Knight noted a couple of work products that the group is working on; “A perspective on regulatory accelerators,” that are needed to help facilitate adopt Transactive Energy Systems and the other is on guidelines for how to design a transactive energy pilot. If anyone is interested in these two papers please contact him and he will get you in touch with the right person.

NIST - David Wollman: Two items today. A new director for NIST has been nominated and will hopefully be confirmed soon.

The NIST nominee is named in the URL below:

https://www.whitehouse.gov/briefing-room/statements-releases/2021/07/16/president-biden-announces-seven-key-nominations-4/

David also noted a new interoperability framework article in EET&D magazine by Abhi Gopstein, NIST https://publications.virtualpaper.com/electric-energy/2021q2/#16/

ASHRAE and CTA - Ron Bernstein: Ron said there is focus now in ASHRE and in CTA on cyber security of the built environment. The focus is on everything from systems and subsystems to IOT devices and how those elements will meet a cyber secure environment when connected to a greater network. Discussions are on-going on how a building to grid interface will need to be more secure. Cyber has moved down to the committee level in the last year. A lot of people are talking about technology and also process solutions, Likewise with data security and data privacy and on more secure systems. They are looking at what the interfaces between the building and the grid are, and also what requirements are needed to ensure that security is included in development.
Karen asked Ron if it is correct that this is starting to be included in building protocols, asking if it is now going beyond aspirational? Ron answered yes. Ron said that they are working on this more in the last few months in the Consumer Technology Association (CTA). They are looking at a new standard for how building devices, both systems and subsystems as well as facilities, can interact with an IOT style platform. A lot of discussion is taking place regarding adding in requirements for what protocols are needed and what core devices are needed for cyber security. They are looking at what the minimum bar should be. They are also looking some at older device compatibility and forward looking devices. It is moving beyond theoretical.

Ron B. if people are interested in how cyber affects the puzzle pieces - not just the device, there is a large focus area, especially in commercial/industrial. Lots of thought leadership behind this. Either Ron Bernstein or Ken Wacks could provide more information to anyone who is interested

Farrokh Rahimi - IEEE: Farrokh noted that the virtual IEEE PES general meeting is next week; July 26 - 29, 2021. There will be Panel sessions and workshops on TE and also blockchain applications.

Farrokh said that he is looking forward to receiving some GWAC related panel proposals for ISGT; the deadline is the end of next week.

EBC - Toni Giroti was not available today.

NARUC - Chris Villarreal was not available today.

Ron B. asked about plans for a fall GWAC Face to Face meeting. He noted that it is typically held in October. San Diego as a location has been proposed.

Karen asked what people think regarding safe travel at this time.

Ron B. said that that things are shifting with regard to the virus in the US at this time. He said November might also be an option. He also noted that it could be set up as a hybrid meeting with a virtual option.

Rahul Bahadur said that at his company there is a hold on travel. There is some outbreak in his area.

David suggested waiting for another month given that some things are changing with the status of the pandemic.

Ron B. said we could decide to move toward a Spring Face to Face meeting.

David Forfia thanked Kay Aikin for presenting on the blog work group today and for lining up a plenary speaker for TESC 2022. David then asked for a motion to adjourn the meeting.

Farrokh Rahimi gave the motion to adjourn the meeting and Ron Bernstein seconded the motion.

Hearing no objections, David adjourned the meeting.
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Attachment:

Aaron Smallwood sent this update for SEPA:

Smart Electric Power Alliance Liaison Report to GWAC July 2021

Updates:

Organizational:

- **SEPA is hiring**, several openings for early to mid-career professionals. Please pass these opportunities on to those who may be interested. The labor market is extremely tight and sourcing talent is difficult. [https://recruiting.paylocity.com/recruiting/jobs/All/5cffe4db-b60f-41f7-b8a4-0abce610f19b/Smart-Electric-Power-Alliance](https://recruiting.paylocity.com/recruiting/jobs/All/5cffe4db-b60f-41f7-b8a4-0abce610f19b/Smart-Electric-Power-Alliance)

Programmatic:

- New **SEPA Cybersecurity** Working Group Chair:
  - Succeeding Nelson Hastings (NIST), Ahmed Mousa (PSE&G) has assumed leadership of the Cybersecurity Working Group. We thank Nelson for his exceptional service and look forward to collaborating with Ahmed to further the group's focus and progress.
    - Danish Saleem (DER Cybersecurity Standards Engineer – NREL) and Seemita Pal (Senior Power Systems Cybersecurity Engineer – PNNL) will be presenting in July and August respectively about their lab’s cybersecurity work and priorities.

- **SEPA’s Grid Architecture** Working Group is developing a Grid Architecture Primer, establishing a team to address the next steps in SEPA’s Grid Ontology work, and exploring a joint Grid Architecture/EV Working Group effort to develop an example of Grid Architecture applied to EVs.

- **New SEPA Transactive Energy Working Group** Chair: Trevor Hardy, PNNL is taking the role of co-chair. Mark Knight will step down and the transition will be complete on September 17. Trevor will also be joining the SEPA Research Advisory Council, replacing Mark Knight who is stepping down but will still be involved with SEPA and the TE working group.

Technical:

- SEPA’s Catalog of Standards is finishing a user experience and platform upgrade – look for a launch in the next few months.