

Meeting Minutes

May 20, 2026

GWAC Members

Ron Bernstein, GWAC Chair and President,
RBCG, LLC

Kay Aikin, Founder, CPO, Dynamic
Grid/Introspective Systems

Ron Ambrosio, Independent Energy
Transformation Professional

Andy Bordine, Sr. Practice Mgr. in Grid
Automation, Actalent

Shawn Chandler, OGEMS Energy, Executive Vice
President, Innovation & Markets and GWAC
Vice Chair

Ron Chebra, Executive Director, Chebra
Consulting Group

Marc Costa, Director of Policy Planning, the
Energy Coalition

David Forfia, Consultant, Utilicast

Yashar Kenarangui, Principal Consulting Eng.,
Grid Innovation

Mark Ortiz, Sr. Director & Chief Architect,
Power & Grid, Schneider Electric

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

Aaron Snyder, Dir. of Grid Technology
Consulting, EnerNex

GWAC Associates & Emeritus

Lorenzo Kristov, Emeritus

Ken Wacks, GWAC Emeritus

GWAC Guest Speaker

Ron Chebra, GWAC

GWAC Friends

Bruce Nordman

Larissa Affolabi

Hawk Asgeirsson

Peter Fitzgerald, INS

Chris Irwin, DOE OE

Chirath Pathiravasam

James Orenstein

Alaa Mahjoub, Independent Digital Business
Advisor

Jiri Skopek

David Wollman

PNNL Support

Jaime Kolln, PNNL GWAC Administrator

Susie McGuire, GWAC Coordinator

Grace Borland, GWAC Financial Coordinator

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Agenda

Call to Order and Roll Call

- Welcome

GWAC Administrative Business

- Minutes
- Upcoming events
- GWAC Accomplishments
- Action Items

Guest Speaker

- Ron Chebra:
Managing Risk and Reliability Implications: Balancing Intelligence at the Edge and in the Enterprise"

Work Product Status Reports

- Grid Arch for Regulators White Paper – presentation from Matt McDonnell
- Applying Grid Architecture Concepts to Bridge Back from the Future Grid
- Grid Architecture Concept Model for Transportation Electrification
- New Work Products Update

Future Activities

- GWAC Outreach
- Planning 2027 GWAC Symposium

Liaison Reports

New Business

Regarding the meeting minutes, Ken Wacks noted that he had no changes to his liaison reports for March or April.

Jaime asked for a vote regarding the March minutes. Yashar Kenarangui gave the motion to approve, and Ron Ambrosio seconded the motion. The March minutes were approved.

Vice Chair Shawn said the V2G forum was very successful. There were many vendors, and the space was very full. He saw a tremendous industry response. All the sessions that he attended were exceptional. He saw a lot of interest in AI. He said if the topic included AI the rooms were full. Overall, there was good attendance with interesting topics.

Ken Wacks noted that he attended the Connections Conference in Santa Clara, California earlier this month. It was focused on home networks. He led a discussion on "AI-Driven KPIs [Key Performance Indicators] & Best Practices for the Smart Home." Parks Associates organized the meeting.

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Aaron Synder requested to add the Executive Energy Summit to the conference list. It will be held Sept. 15 – 16, 2026 in Aurora, Colorado. [Empower Executive Energy Summit 2026](#)

Jaime said he thought the talks at DistribuTech were even better than those at the V2G Forum.

Ken Wacks asked if Distribution Systems management was still the key focus? Jaime replied that it was not really the key focus.

Andy Bordine asked to add the UTC Telecom and Technology Conference, June 2 – 4, 2026, Minneapolis, MN to the Conference list. He will be speaking this meeting which is their Annual Conference.

Shawn Chandler said he would be attending the PES General Meeting, the RE+ Mid-Atlantic meeting, the PES Grid Edge 2027 and the RE+ Las Vegas meeting.

Conferences and Events



Date	Event	Location	Attend	Speaker	Topic/Notes
May 4-7, 2026	IEEE PES T&D	Chicago, IL	Aaron Synder, Jaime Kolln, Yashar Kenarangui		Power Reliability Eng. Resilience
June 2-4, 2026	Energy Storage Safety and Reliability Forum	Albuquerque, NM	Jaime Kolln		
July 19-23, 2026	IEEE PES General Meeting	Montreal, Canada	Farrokh Rahimi,		Powering the Digital Era
July 19-22, 2026	NARUC Summer Policy Summit	Minneapolis, MN	Shawn, Kay	July 19-22, 2026	NARUC Summer Policy Summit
Aug. 12-13, 2026	RE+ Mid-Atlantic 2026	Philadelphia, PA	Jaime Kolln, Jeremy Roberts, Kay, Ron B.		
Sep. 1-4, 2026	Middle East Energy Leadership Summit	Abu Dhabi, UAE	Ron Bernstein	Ron Bernstein	Panel participant-Digital Strategies for Corp. Transformation
Sept. 1-3, 2026	T & D World	Orlando, FL			
Nov. 8-11, 2026	NARUC Annual Meeting & Education Conf	Puerto Rico			
Nov. 16-19, 2026	RE+	Las Vegas, NV			Renewing What's Possible
Nov. 19-21, 2026	Decentralized Energy Canada	Banff, Alberta	Kay Aikin	Kay Aikin	
Jan. 6 - 9, 2027	Consumer Technology Assoc.	Philadelphia, PA			
Jan. 25 – 27, 2027	AHR	Chicago			NRECA is a host
Feb. 14 – 17, 2027	Tech Advantage 2027/Power XChange	San Diego, CA			
Mar. 1-4, 2027	DTECH	Atlanta, GA	Aaron Snyder		
04/19-22/2027	IEEE PES Grid Edge Technologies Conference	Salt Lake City, UT	Farrokh Rahimi		

Conference review

GWAC was not accepted for the NARUC summer summit. Kay will be attending and Jaime said GWAC will be interested in hearing her notes. Kay possibly may not be attending after all.

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Shawn noted that he is not planning to attend the NARUC summer meeting after all.

Ron Bernstein said he may still attend RE+ but he wants to talk to Jaime about it. Same with the UAE meeting.

Ron Bernstein is planning to attend the AHR 2027 in Chicago. He said that AHR is eager to enhance their training offerings. If GWAC presents the same workshop that will be at the Symposium, that would work out well. It would be similar last time; 2.5 to 3 hours. GWAC will need to commit to this in July with AHR. Ron said it would need at least two other people – Shawn and Matt would be great.

Shawn said he would be happy to participate. Matt was not on the call.



"Managing Risk and Reliability Implications: Balancing Intelligence at the Edge and in the Enterprise"

Guest Speaker: Ron Chebra, GWAC

Ron is the Executive Director of the Chebra Consulting Group, an independent consultancy focused on bringing automation, integration and innovation to the Energy Utility marketplace. By leveraging his extensive background and experience, he provides his clients with insights, strategies and direction that help them achieve their business goals.

Prior to starting his own firm, Ron was Vice President of Grid Modernization at EnerNex, where he supported a variety of grid improvement programs including microgrids, distribution automation and systems architecture design. Prior to joining EnerNex, he was a Distinguished Solutions Architect for Verizon Enterprise Services leveraging their IoT Platform as a Service (PaaS) for device and system connectivity. Before joining Verizon, Ron was a founding member of Schneider Electric's Utility Consulting Group, where he worked on utility business transformation projects and integrating microgrids, Ron's experience includes DNV/KEMA where he was Vice President of and Practice Lead for the Advanced Metering Infrastructure (AMI) effort, where he helped several utilities with their business case and technology assessment of this technology.

Ron held leadership roles with the Automatic Meter Reading Association (AMRA/Utilimetrics); was on the advisory committee for DistribuTech and gave courses on telecommunications systems for utility applications.

He currently serves on T&D World Advisory Committee; Ron is a Senior Member of the IEEE and is the Vice Chair of the IEEE New Jersey Coast Section. He is also Chair of the local IEEE Consultants Network, and Vice Chair of the local IEEE Power Engineering Society (PES). Ron is also active with the Rotary Club of Great Bay where he volunteers his time in support community projects.



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Jaime Kolln introduced today's Guest Speaker, Ron Chebra.

Ron B. asked everyone to please mute their speakers and hold questions until after the presentation.

Managing Risk and Reliability Implications

Balancing Intelligence at the Edge and in the Enterprise



EPRI Risk Pinwheel



Hazard is often presented as the first component because, without it, there would be no exposure, and any vulnerabilities present in the system would not manifest. Hazard refers to adverse physical conditions that may cause stress or damage. Examples include heat waves, wildfires, and floods.

Exposure, the second component, is used to express whether the hazard is present at locations of concern (e.g., where assets are located within a system). Examples include substations located in a floodplain or transmission lines in a hurricane-prone area.

Vulnerability, the third component, determines the likelihood and extent of impacts that may result from exposure to a hazard. Examples might include a flood depth-damage function or threshold-based temperature design ratings.

Response, the fourth component, refers to purposeful or autonomous (independent) changes to systems or society that can either increase or decrease risk by affecting one of the other components. Purposeful changes include adaptations, whether reactive or proactive, intentionally pursued with the goal of reducing climate-related risk.

Risk Pinwheel © 2025 Electric Power Research Institute, Inc. All rights reserved

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Activities

Predictive What is likely to happen – risk assessment

- Role is to assess conditions
- Develop potential plans and scenarios – what if
- Determine risk and threat profile
- Set up measures to reduce risk and threat

Prescriptive What actions should take place to mitigate

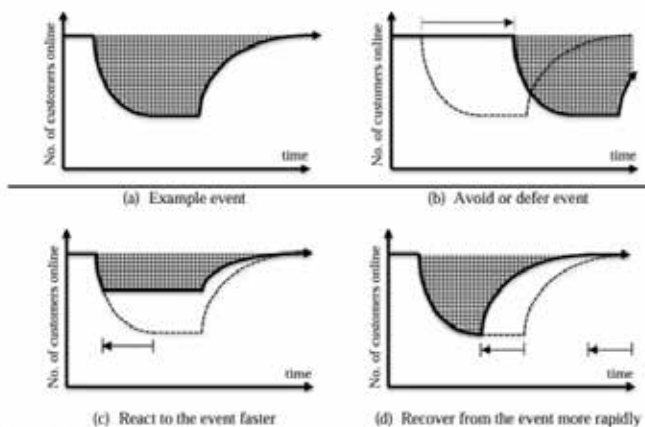
- Set up decisive actions to intervene and reduce risk
- Dispatch corrective measures to quickly resolve conditions and restore normalcy
- Provide feedback to predictive analytics to improve model accuracy and effectiveness
- Track performance and efficacy of solutions

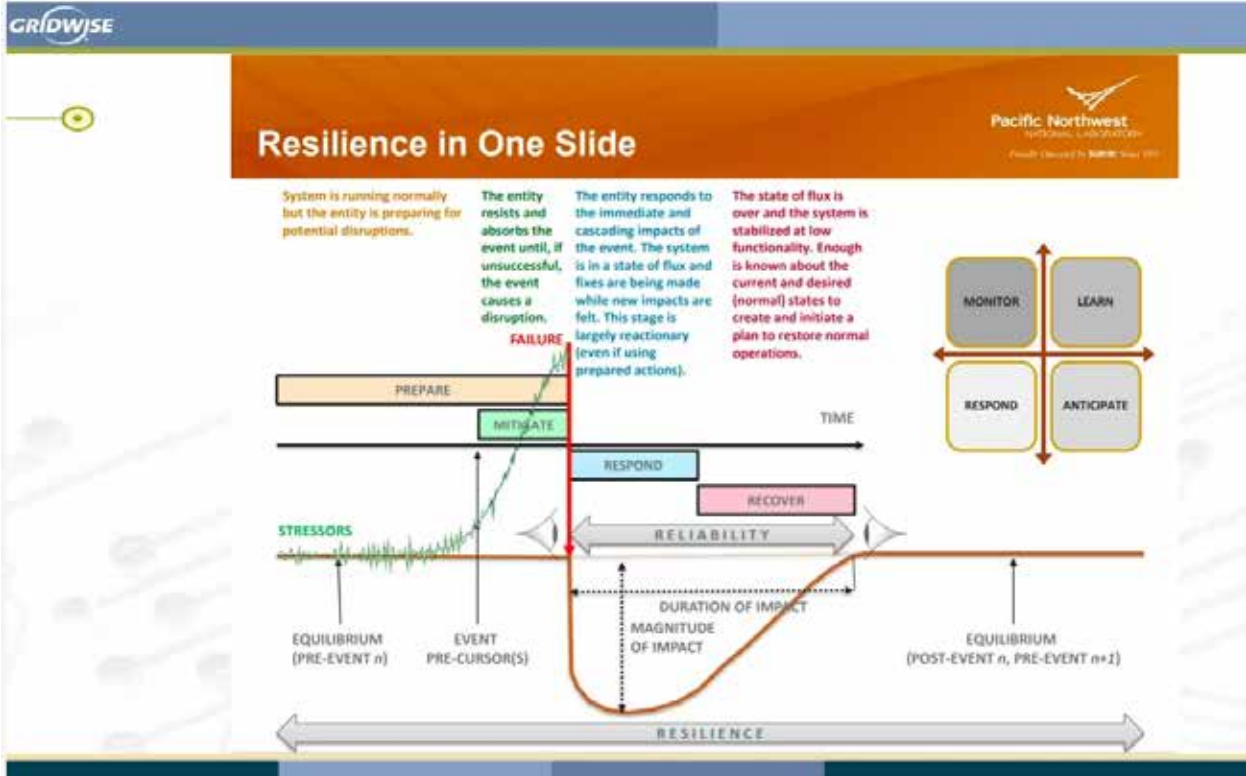
Descriptive What did happen, root cause analysis

- Assess conditions and factors leading to situation
- Evaluate and seek primary and supporting conditions leading to event
- Produce recommendations and actions based on learning to improve predictive and prescriptive analysis
- Communicate results to improve processes and actions

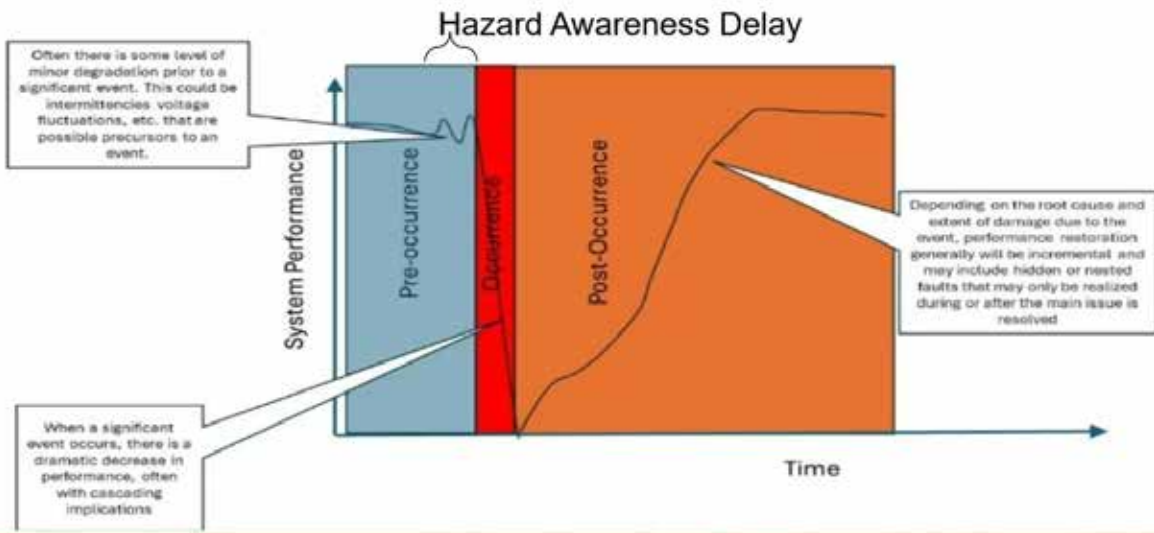


Event Models





Event Timeline



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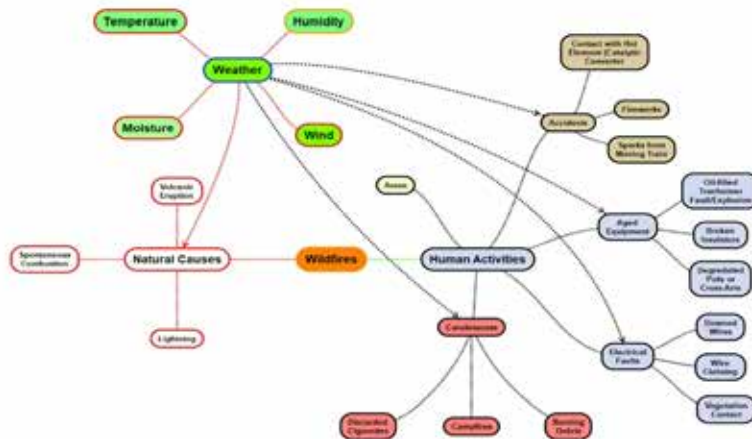


Key Event Stage Characteristics

	Pre-occurrence	Occurrence	Post-occurrence
	Indicators	Event	Resulting Action or Remediation
Time Span	Weeks, Days Hours, Minutes	Minutes, Seconds	Weeks, Days Hours, Minutes
Organization Focus	Grid Ops/Control Room	Incident Response Team	Field Operations/Repair
Primary Tools	dSCADA	OMS/AMI/dSCADA	WFM/Field Reporting/dSCADA
Relative Cost	Low to Moderate	Moderate/Costly	Costly
Relative Impact	High	High	Moderate
Situation Awareness Value	Prevention/ Defensive/ Event Avoidance	Isolation/ Restoration Optimization	Improved ETR and Validation

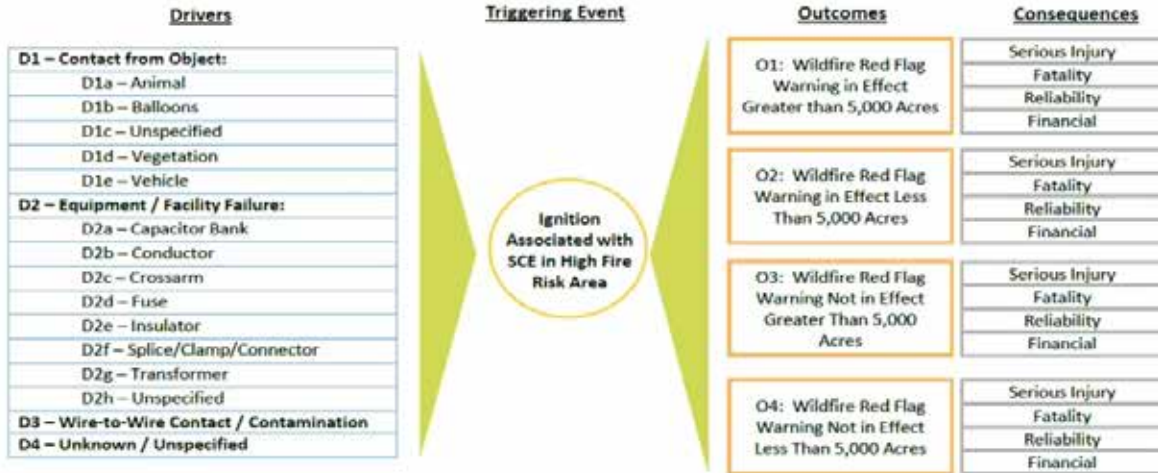


Use Case – Wildfire Causation Map



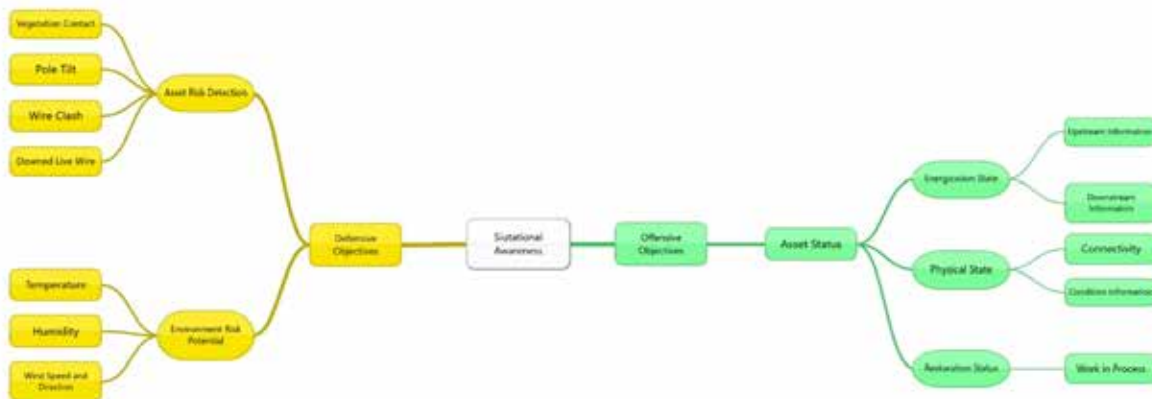
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SCE WILDFIRE RISK BOWTIE



Data sources used to populate baseline risk bowtie parameters include:
 •SCE's CPUC reported ignition data (per Decision 14-02-015), Outage Database and Reliability Metrics (ODRM) system, historic red flag warning records, CalFire Redbook data, CalFire investigation reports and press releases, estimated wildfire financial costs from industry, government, and insurance sources

Mindmap





Action Mapping – Preventative Measures



The Challenges

- Where should actionable intelligence reside?
 - At the Edge
 - Local Data collection, Analysis, Decision Making and Response
 - Time vs. Accuracy
 - At the Enterprise
 - Aggregated Data, Comparative Assessment, Decision Scenario Options, Orchestrated Response
 - Near-real time and post mortem
 - Hybrid
 - Combination of Edge and Enterprise

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Drivers Influencing Devices at the Edge

Capability	Trends
Sensor Types	↑
Sensor Cost	↓
Processing Capability	↑
Power Consumption	↓
Communication Options	↑

Chris Irwin asked for a deeper read on Communications Options such as increasing, diversifying, improving. He asked about Zigbee and Z Wave technology. He commented that he's dubious if the communications options are truly improving or becoming more cost effective; they seem to be aggregating and becoming increasingly larger monopolies.

Ron Chebra said he had done a study for a group of utilities a couple of years ago. He found that with smart phones on the 5G network – the carriers are looking at three segments of the cellular infrastructure. They are first looking at the consumer and day to day use of a smart phone. Then they are looking at highly secure, reliable machines. They are going to more of a SCADA availability – higher reliability and higher assurance of transmission capability. And the third area is the machine to machine space.

Carriers are looking at what they can do to exploit the proliferation of devices. He said from a cellular carrier perspective they have a ripe area to pursue. In terms of other areas, such as a wide area network, there are growing options. He said that private LTE will create opportunities.

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🕒 Example Continuous Monitoring Systems



Tire Pressure Monitoring System (TPMS)



Continuous Glucose Monitor (CGM)

Kolln, Jaime T 10:54 AM



My weather station is a continuous monitoring system.

David Forfia 10:54 AM

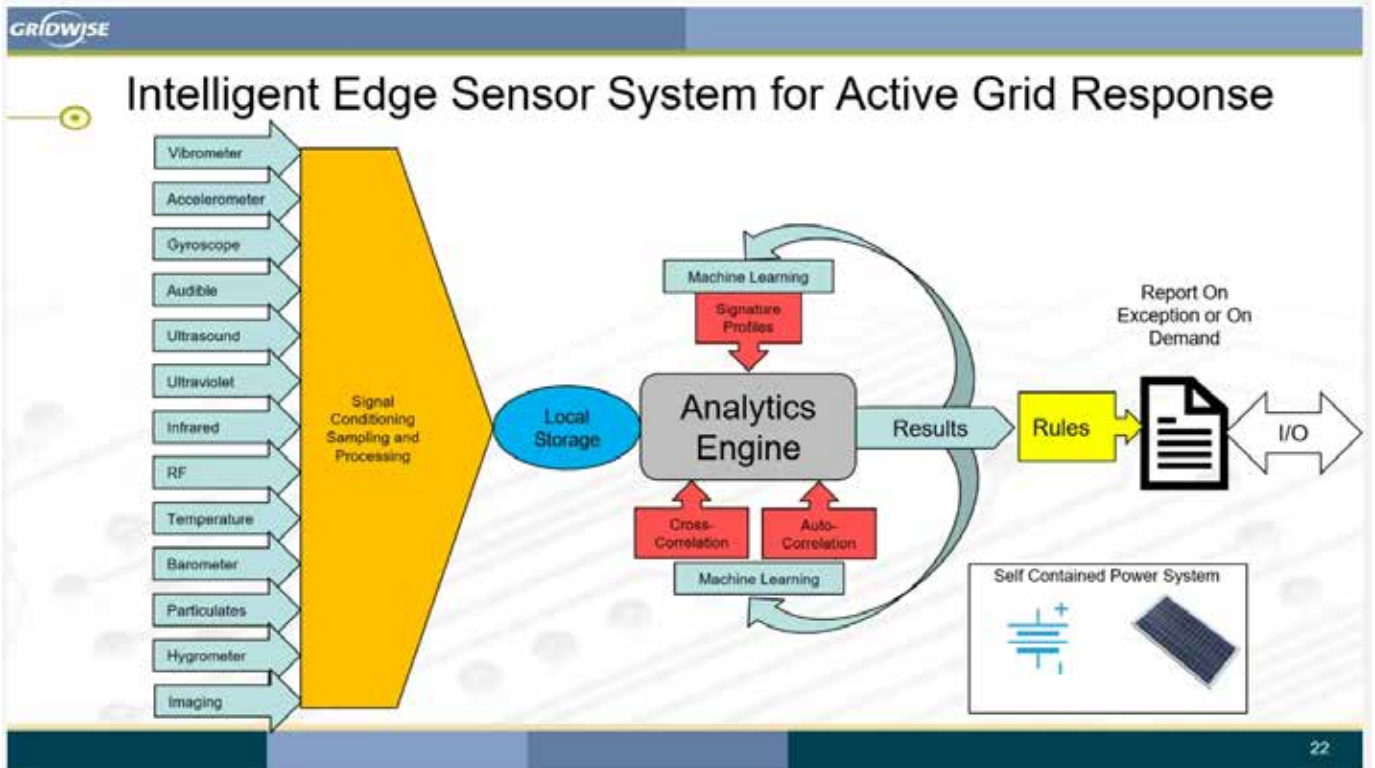
DF Apple Watch / Garmin monitors a lot.



ecobee collects a lot more than temperature - Radon, humidity (ERV function), etc.

Aaron Snyder 10:58 AM

AS nice. the LHS is what some utilities want in their AMI 2.0 single-phase electric meters with an AI chip, of course sampled at 32kHz. (i am actually not exaggerating by much)

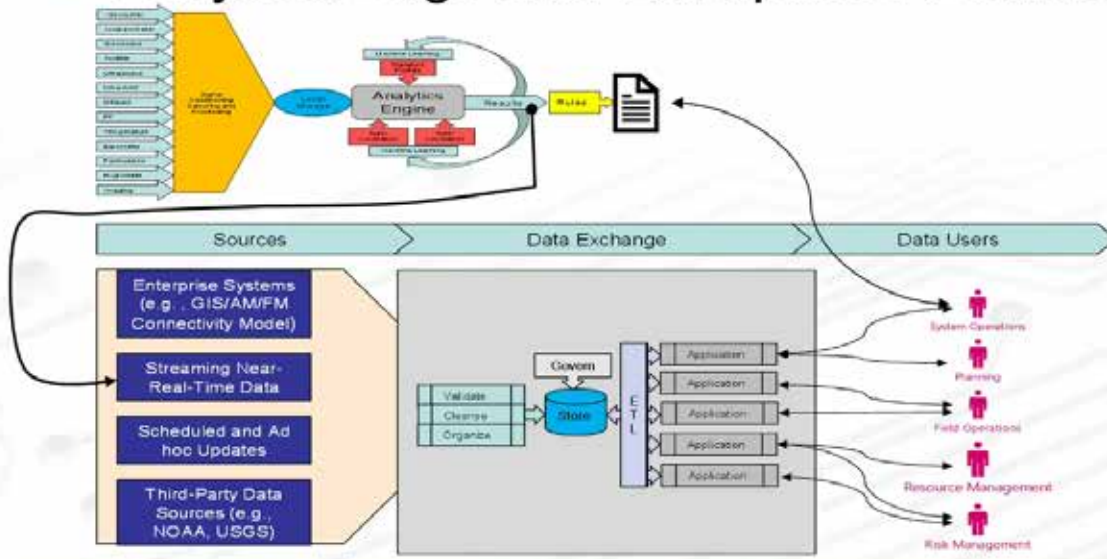


Drivers Influencing Enterprise Level

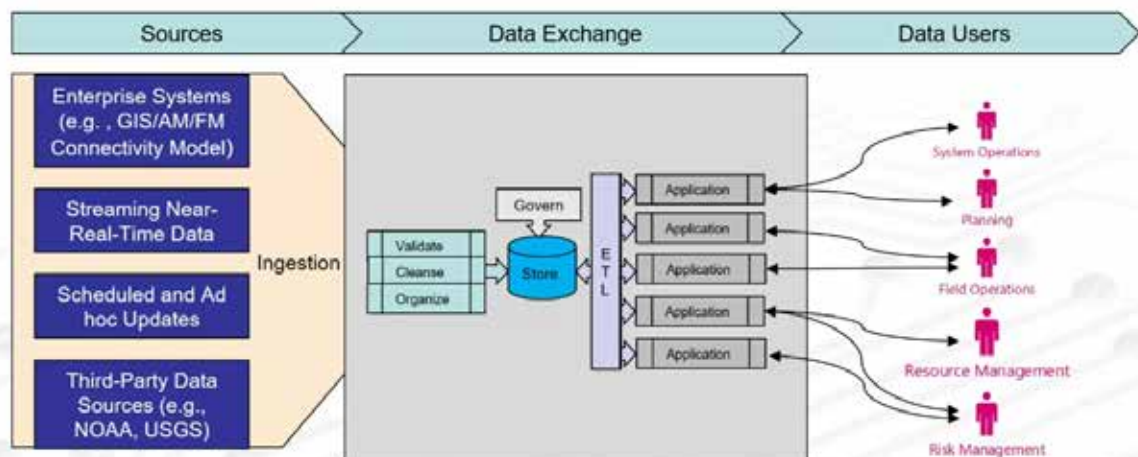
- Computing Power
- Higher Level Overview
- Historical Data
- Information Accessibility



A Hybrid Edge and Enterprise Architecture



Enterprise Framework



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Ron Chebra
Chebra Consulting Group, LLC
Little Egg Harbor, NJ 08087
Rchebra@ccg-nj.com
www.ccg-nj.com
609-865-0166



Action Items

- Send speaker ideas to Jaime Kolln and Ron Bernstein and copy Susie McGuire.
- Planning a kickoff meeting to a new meeting series focused on the relationship of energy efficiency and Grid Architecture.
- Kay Aikin, Aaron Synder and Ron Ambrosio participating. Shawn is looking for a few additional participants, please contact Shawn if interested. Plan to kick-off in Q3/26.
- GWAC to present at conferences. Participants? Which events?
- Action: Ron Ambrosio will lead a webinar for Back from the Future (Paterson/Aikin)
 - Ron A has presented it twice at student chapter meetings.
 - Update based on publication – Ron A and Rahul
- Next NARUC opportunity? August meeting – Shawn and Andy to confirm.
- In Person Workshop - talking with Seemita Pal about a possible meeting in Portland, OR
 - Timing? Participant? **Alternate location?**

Jaime said GWAC is hoping to get some more speakers lined up for future monthly meetings. If you have ideas please send them to him, Ron Bernstein, Ron Chandler and Susie McGuire.

Future GWAC meetings are planned for

- RE+ Philadelphia
- AHR Expo 27
- IEEE PES GM

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Jaime that GWAC has presentation materials and videos available that the GWAC presenters can use to feature the GWAC in the talk or presentation.

GWAC Outreach

- Upcoming Events with GWAC presence
 - RE+ Mid Atlantic August 12-13 in Philadelphia.
 - Jaime Kolln, Aaron Snyder, Jeremy Roberts, Bernstein, Shawn – Please confirm. Yashar, Kay Aikin, Chebra is a maybe, NO: Ron A, Farrokh, Marc C, Mark O, Andy B., Forfia Maybe F2F meeting too?

Shawn Chandler said there is an opportunity to speak at the August meeting of NARUC. Someone at NARUC contacted him about it. It would be before the electricity committee panel. He will work with Andy Bordine on the details. Jaime said he can help out.

Jaime said that he and Seemita Pal haven't gotten very far with a Portland meeting. He suggested a 2027 meeting in Florida for an in person workshop if the Portland option doesn't work out. The dates are yet to be determined but it would be in the second half of 2027.



Systems Thinking for Regulators

- Core team members: Matt McDonnell, Lorenzo Kristov, Jeremy Twitchell
- Committee: Kay Aikin, Larisa Dobriansky, Marc Costa, Peter Fitzgerald, Jeff Morris, Mark Paterson, Farrokh Rahimi, Chris Villarreal, Ron Bernstein, Shawn Chandler,
- White paper aimed primarily at state regulators and policymakers:
 - Underscore increasing complexity of challenges facing the electricity system
 - Introduce systems thinking as a diagnostic tool for navigating complexity and asking better questions before designing better policy and regulation
 - Provide discrete, illustrative examples of how to apply systems thinking tools to real-world regulatory challenges
- Illustrative case studies
 - Iceberg Model Tool | Resilience
 - Stakeholder Mapping Tool | Permitting + Siting Electricity Infrastructure
 - Whole-of-System Approach | DER Integration
- Tentative target date: *End of February 2026*

Kay Aikin expects this paper to be completed soon. A graphic for the paper is being developed by PNNL creative services.

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Applying Grid Architecture Concepts to Bridge Back from the Future Grid

Building on the previous GridWise Architecture Council work products, this document attempts to provide a rationale for operators, planners, developers, integrators, and policy makers to explore a Bridge Back from the Future approach to develop transition plans the grid of the future as described in the future states. This paper will include discussions of motivating participation of customer owned assets and opportunities for avoided costs by working toward a long-term vision rather than only short-term needs. This document will be completed in FY26, with mid April publication.

- Mark Patterson has a full draft published to the team.
 - Meeting to discuss the drafts and any feedback on February 4th. Updates?
 - Committee : **Mark Paterson**, Marc Costa, Ron Ambrosio, David Forfia, **Kay Aikin**, Lorenzo Kristov, Farrokh Rahimi, Aaron Snyder, Shawn Chandler, Nicholas Domich
 - 2:00 PM PT/ 5:00 PM ET Thursday 2 times 1st and 3rd Thursday of the month
- Final draft to be reviewed Dec 1 – and begin infographic. Attempting to be complete by Jan 1

E

Mark Paterson is getting some copyright materials for the paper. Kay has completed the editorial.

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Grid Architecture Concept Model for Transportation Electrification

Analyze various visions of the electrification of fossil fuel-based systems and identify areas where GWAC concepts could provide architectural value to bridge and coordinate between customer and grid objectives. Electrification will introduce dependencies such as those seen in the transportation sector due to electrification. Grid Architecture will be used to describe the touchpoints (for example through sector coupling) that will require collaboration. GMLC reference cases will be included. This activity has been underway since Q4/24 and is on target to be completed FY26.

- 15-20 page whitepaper
- Committee: Jaime Kolln, Ron Cunningham, Farrokh Rahimi, Mark Ortiz, David Forfia, Aaron Snyder, Lorenzo Kristov, Bhaskar Mitra, Shawn Chandler
- 1:00 PM PT/ 4:00 PM ET, 2nd and 4th Tuesday of the month
- Final deliverable date of May 30, 2026

A renewal of the Transportation work group meeting calendar was sent out this morning. The next meeting is scheduled for Tuesday, May 26.

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GWAC Future Activities



Yashar Kenarangui, GWAC, will be the June GWAC meeting guest speaker.

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GWAC Outreach

- Upcoming Events with GWAC presence
 - RE+ Mid Atlantic August 12-13 in Philadelphia.
 - Jaime Kolln, Aaron Snyder, Jeremy Roberts, Bernstein, Shawn – Please confirm. Yashar, Kay Aikin, Chebra is a maybe, **NO: Ron A, Farrokh, Marc C, Mark O, Andy B., Forfia** Maybe F2F meeting too?
 - **Webinars – volunteers needed.**
 - **End of June “Bridging Back” Date?**
 - **July “for Regulators”**
 - **August “Transportation Concept Model”**

For the RE+ Mid Atlantic meeting, David Forfia will not be attending.

Aaron is on as a yes but is now a maybe and would like to talk with Jaime about it.

Jeremy is already on as a yes.

Peter Fitzgerald as a Maybe at this time.

David Forfia said he won't be at Mid-Atlantic RE+. Aaron Snyder said he can't confirm that he will be there. Jereme Roberts, Green Button, is still planning to be there. Peter Fitzgerald said that he also can't confirm at this time.

Ron B. suggested organizing a no host dinner for the attendees.

Shawn Chandler said he plans to attend.

Ron Ambrosio said he has a conflict and will not be there.

Shawn Chandler said that he is targeting August as a finish timeframe for the Transportation white paper.

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GWAC Symposium 2027

Main Topics:

Three existing work products

Additional Topics:

Energy Parks – systems being built out prior to being interconnected.

- Multi customer energy parks and regulatory challenges

Where:

SLC, Utah 2027

Tampa FL 2028

Key Details:

- Vanessa Whitten (PNNL) will coordinate logistics
- Sponsorships need to be identified early
- Paid event to fund the management/organization support of the event
- Council Members Participating in the Organizing Committee
- At Least 4 Council Members
- Call for participation is the kickoff; it will include a timeline of due dates for presenters.

Topics:

- Three existing work products

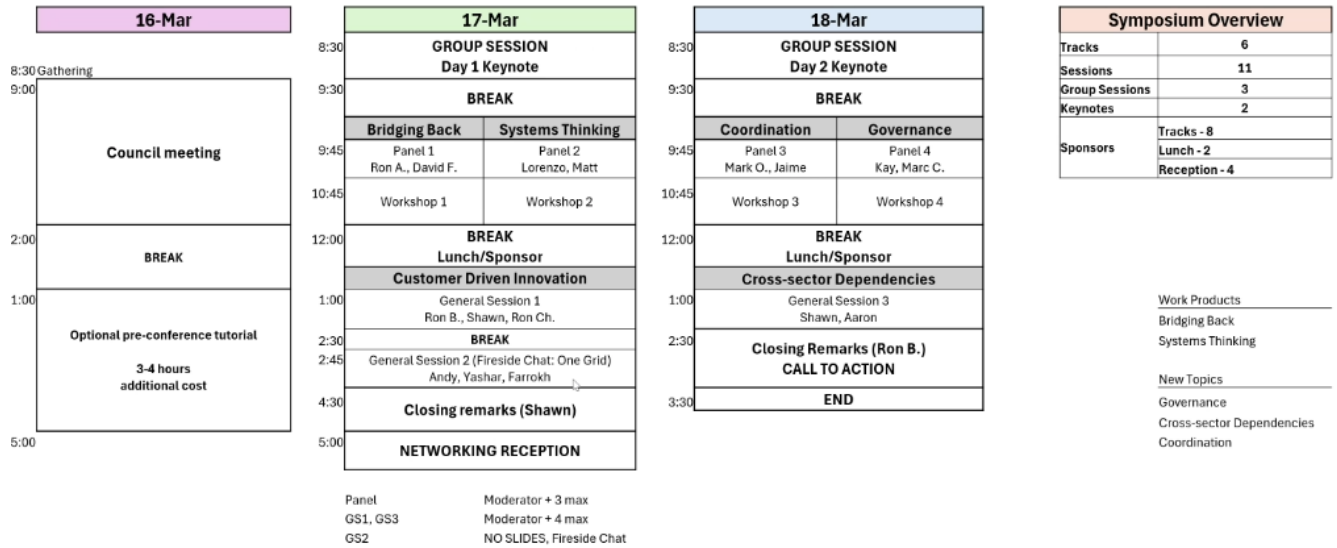
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GWAC Symposium 2027

Last Updated 5/6/2026



Farrokh Rahimi is enthusiastic about the One Grid Fireside chat time. This discussion will bridge the day 1 and day 2 topics.

Kay said day 2 governance is about regulatory issues. It is about what things will have to change such as how FERC 2222 will be implemented in regulation both at the federal and state level.

Liaison Reports

NIST – David Wollman put his content in the chat:

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David A Wollman  11:15 AM

DW (I have to leave early today, good to see everyone - including Chris Irwin 😊 - and I hope you all have a great holiday weekend)

brief NIST update: new NIST Director Arvind Raman recently (this week) confirmed by Senate

<https://www.manufacturingdive.com/news/nist-director-nominee-arvind-raman-senate-confirmation/81535...>



Senate confirms Arvind Raman as ...

Raman was confirmed to lead the National Institute of Standards and Technology...

www.manufacturingdive.com

Ron Bernstein added that he sits on a committee with the NIST team and they are working on building cybersecurity. They are trying to create a cyber security for dummies approach for IT and OT systems. There are efforts going on with the consortium for Smarter Buildings and some NIST people are leading along with others. He will share progress updates that are relevant to the GWAC.

EPRI Interoperability Plug Fest – Jaime Kolln said he attended this event. They had 36 pairings of different devices and test tools. Many groups attended to help conduct the tests. He said it was a very successful event.

IEEE – Farrokh Rahimi. The IEEE PES General Meeting will be held July 19 – 23, 2026 in Montreal Canada. He is helping organize two panels, one on large loads and data centers, and another one on AI and Power.

DistribuTECH – Farrokh Rahimi; the dates are March 1 – 4, 2027 in Atlanta.

Farrokh also mentioned that he and Ron Melton are involved with the Blockchain Technical Community.

ASHRAE: Ron Bernstein said there is new activity around developing advanced cybersecurity measures for OT systems and the related standards.

They are looking at OT data and IT data and where they converge and where they diverge. They are also looking at the how to address the enterprise cloud owner on system data transfers. There is a separate committee working on standards for visualization across multiple vendors and multiple domains. Some of the work is driven by end users including the Department of Defense. There is a desire to develop standards that relate to standard naming conventions and semantic interoperability. Metadata will drive

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that standardization. There is work going on to try to harmonize this and it will have an effect on OT and IT systems as they relate to the grid.

He said that with DoD – they need a way to cope when people change jobs – to maintain consistency between the bases so they don't have to retrain every time someone changes jobs. There will be metadata to try to harmonize and standard ways of communicating.

ISO/IEC - Ken Wacks. The ISO/IEC Committee on the "Home Electronic System" (HES) has developed more than 60 HES standards. Ken is chairing a virtual meeting for two hours per day over the next eight to ten days. It is an international gathering of experts with participants from Australia, Canada, Germany, Japan, Korea, Sweden and the United States.

At the ISO/IEC HES meeting this morning the VP of Standards and Technology for CTA gave a liaison report on cybersecurity, discussing the US Cyber Trust Mark. This is a physical symbol planned for consumer product packaging that would start next year to indicate that the product meets a minimum set of standards for cybersecurity protection. The FCC is administering the US Cyber Trust Mark program and plans to coordinate with similar programs in Europe, Singapore, and eventually elsewhere.

The ISO/IEC HES committee is expected to receive a proposal on how to standardize voice control for devices on a home network and to create a blockchain-based data vault for home network data that has been collected.

KASH, the Korean AI Smart Home Association, is preparing ISO/IEC standards proposals for AI applications in apartment buildings including energy management. The ISO/IEC HES committee has already published a standard in this area. They will update it with a new approach to AI.

Ken noted some current funding issues for the IREC – Customer Grid Edge work group. He is searching for another home base for this group.

SEPA – Jaime Kolln noted that he has been talking with Aaron Smallwood about GWAC participating in the RE+ Mid-Atlantic meeting and the RE+ Las Vegas meeting. Aaron has sponsors lined up for the Mid-Atlantic meeting in November and he is working on getting space assigned to GWAC.

DOE – Shawn Chandler noted that the FERC Commissioner has been recertified for a 2nd term which will go through 2031.

Shawn also mentioned a bill from the Energy Subcommittee on wires, rates and state permitting transmission for reliable and affordable power is in progress. It can be viewed online.

Shawn also said that there is federal support for a coal export hub in California at the Oakland bulk terminal. The administration would use the Defense Production Act to fund a path for Western coal shipments to other nations.

Shawn will send Ken some information on a CISA initiative for critical infrastructure operators to respond to cyber-attacks from sophisticated nation state actors.

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Bruce Nordman noted that he has retired LBNL.



Upcoming GWAC Meetings

Date	Topic or Speaker	Format
May 20 th , 2026	Ron Chebra	
June 17 th , 2026	Yashar Kenarangui - Applying Grid Architecture Concepts to DERMS	
July 15 th , 2026		
August 19 th , 2026	NARUC recap?	
October 19-22, 2026	Portland Maine!!!!	

Future speaker ideas: Webinar practice runs?

Kay Aikins said she will take notes at the NARUC meeting if she does attend. Also, she could give GWAC an overview of the Central Maine Power Recap.