

THE CONDUCTOR

News & Activities of SGIP



March 24, 2016



President's Update

Members,

Thank you committee members for updating your information and providing it to Lesley Strand for our new website. The new website will launch next month so stay tuned. This is an activity that I have wanted to see since joining SGIP and I believe you will be pleased. We are also changing our logo to make it more reflective of our organization. It will be clean and embody advancement.

I am also so proud of our OpenFMB team and the milestone that they achieved this month with the ratification of their work as a standard through a NAESB Retail Market Quadrant member vote on Monday, March 7, 2016.

SGIP and DOE will host a joint meeting at NEMA's facility in Washington DC on May 11th to bring together some industry leaders to discuss the new landscape that grid modernization and home IoT creates. We believe that the discussion is timely with the onset of the new IoT technologies and how they are emerging on the home front. Ultimately, we would like to take stock of what has changed due to this new dynamic, what paradigms and approaches need reconsideration, and how enhanced connectivity can be leveraged for benefits to customers and the grid alike.

On March 18, the SGIP Grid Management Working group held a call to agree upon the charter and outputs of this group. We had 35 plus utility personnel in attendance with representatives from Hydro One, SoCo, Duke Energy, SCE, London Hydro, FPL, ComEd, Idaho Power, DTE, Oncor, Xcel Energy, BC Hydro, AEP, JEA, Portland General, PSEG, Ameren, PG&E, CPS Energy, Duquesne Light, and Greater Sudbury Hydro.

The working group agreed upon their focus items and prioritized its top three areas. The group intends to collaborate to generate business requirements that address their needs in the areas of:

- Distributed Energy Resource Control Functions and Operations
- Microgrids Functions and Operations
- FLSIR and Outage Management in a High Penetration Grid
- Adaptive Protection Functions
- Economic Optimization of Distribution Grid
- Distribution Market Functions/Operations
- Roles and Responsibilities of Distribution System Operators in High Penetration Grid with the penetration of DER

The working group will publish their requirements, engage the industry at large with regard to their needs, take that feedback and then ultimately use the information in sourcing needs for the future. The approach will be staged and will allow utilities to collaborate and then later reach out to industry for further collaboration, insights, dialogue, and engagement. Utilities interested in joining this group should reach out to sallan@sgip.org.

I would like to extend a warm welcome to the following **new** SGIP members: OPC Foundation, Korea Electrotechnology Research Institute, and Machfu.

Regards,



Sharon Allan
President and CEO

SGIP Announcements

NAESB Ratifies OpenFMB™



The North American Energy Standards Board (NAESB) announced that the Open Field Message Bus (OpenFMB™) was ratified as a NAESB standard through a Retail Market Quadrant member vote. Ratification is a significant milestone, ensuring that a standard is accepted as a mature industry-adopted method of enabling peer-to-peer information

exchange at grid edge. SGIP made the [announcement](#) earlier this month and Duke Energy hosted a widely attended OpenFMB live demo during DistribuTECH. Please read the official NAESB press release [here](#).

SGIP Named Network Partner for ETS16

SGIP has been selected as a network partner for Zpryme's ETS16 conference. The Energy Thought Summit connects global thought-leaders for provoking debate on the state and the future of energy. Debate topics will include smart grid, electric vehicles, renewables, disruptive technologies, big data, cybersecurity, smart cities, social media, cloud computing, and workforce. ETS16 will be held in Austin, TX March 29-31.

PMO Update from Aaron Smallwood, SGIP Director of Technology Operations

In March, the North American Energy Standards Board (NAESB) announced that the Open Field Message Bus (OpenFMB™) was ratified as a NAESB standard through a Retail Market Quadrant member vote.

Ratification is a significant milestone along the path of becoming a mature and industry adopted way of enabling peer-to-peer information exchange at grid edge.

It's notable that for an effort that would typically require several years - the team went from concept and announcement in March 2015 to ratified standard in only one year.

Following the successful OpenFMB™ DistribuTECH demonstration in February, the OpenFMB™ team has been focused on the goals that were set at the January in person meeting. Three task forces were established for 2016:

- OpenFMB™ Cybersecurity Task Force
- OpenFMB™ Use Case Task Force
- SGIP 61850 UML Task Force

The core project team has moved to a bi-weekly meeting schedule to allow more time for task force participants to focus on their goals.

The OpenFMB™ Use Case Task Force was formed to define, vet, and prioritize OpenFMB™ use cases for the team and others interested in OpenFMB™ to address. This task force has the largest number of members and began their work in earnest in March with an ambitious timeline to select the next use case. The team is planning an in person meeting this summer to review and refine the use cases once the preliminary vetting and selection is complete.

Another planned addition to the OpenFMB™ project is a collaboration environment and repository for development work to be kept and maintained. The addition of this capability will enable the OpenFMB™ team to work more effectively. As developer kits and guides are created, and interest in OpenFMB™ continues to grow, these tools will also enable involvement and contribution by a larger community of interest.



As I said in our press release announcing the ratification of the OpenFMB™ NAESB standard, we are moving forward and building upon successes. It's an exciting time to be a part of OpenFMB - and industry interest has never been greater.

Cybersecurity continues to be a major SGIP focus area and the task force is working on writing a companion security guideline to the OpenFMB™ framework, developing an OpenFMB™ Cybersecurity roadmap, and a longer term OpenFMB™ Cybersecurity reference implementation architecture.

In addition, the SGIP Smart Grid Cybersecurity Committee (SGCC) is currently working on a Cybersecurity Frameworks lessons learned white paper to be published in early April 2016.

Grid Management Working Group Update

SGIP's new Grid Management Working Group met February 8, 2016 while at DistribuTECH to explore and determine requirements for grid modernization.

The purpose of the Grid Management

Working Group is to unite utility leaders in discussions on key operational concepts, capabilities and architecture principles relating to future grid control and operational technologies needed to manage a more complex grid due to the rapid rise of DERs.



The Grid Management Working Group recently convened via conference call on March 18th for their 2nd meeting. Over 25

utilities and 35 plus utility personnel participated in the March 18th conference call.

The Grid Management Working Group named a chair and co-chair: John Bubb, SCE, was named Industry Chair and Aleks Paaso, ComEd, was named Industry Vice Chair.

At this time, the working group led by SGIP, will continue as a utility-only group with selective participation with labs and academia.

The group intends to collaborate to generate business requirements that address their needs in the areas of:

- FLSIR and Outage Management in a High Penetration Grid
- Distributed Energy Resource Control Functions and Operations
- Microgrids Functions and Operations
- Adaptive Protection Functions

With other areas of consideration being:

- Economic Optimization of Distribution Grid
- Distribution Market Functions/Operations
- Roles and Responsibilities of Distribution System Operators in High Penetration Grid with the penetration of DER.

The Grid Management Working Group is planning a face- to-face meeting in April 2016. Additional meeting details will be sent via email to those already signed up for this working group.

If you are a utility and have not yet joined, but are interested in joining the Grid Management Working Group and/or attending the April meeting, please contact Sharon Allan directly at sallan@sgip.org to be added to the working group and to receive upcoming meeting details.

SGIP Member Spotlight

Each month, beginning with this issue, SGIP will turn the spotlight on a member who is making an impact in their professional field and around the association. These members exemplify the mission of SGIP to advance grid modernization. It's a great way for you to meet your colleagues and find members with similar interests.

Dr. Shay Bahramirad

Dr. Shay Bahramirad, IEEE Senior Member, the Director of Smart Grid and Technology, serves as a strategic business leader in Commonwealth Edison, the electric Utility in Illinois, working on the transformation to the 21st century power grid and the new energy economy. Her major responsibilities include leading Smart Grid organization across ComEd to develop the vision, business models, and investment strategy of the grid of the future initiatives such as merging technologies, microgrids and smart city deployments. She is an Adjunct Professor at the Illinois Institute of Technology, teaching Microgrids, Elements of Sustainable Energy, and Smart Grid.



Dr. Bahramirad holds multiple advanced degrees, including a Ph.D. in Electrical Engineering from the Illinois Institute of Technology. She is the Chair of the board of IEEE PES Women in Power, Technical Chair of the 2016 IEEE PES T&D Conference, Advisory Committee Member of the Great Lakes Symposium on Smart Grid and the New Energy Economy, Guest Editor-in-Chief of IEEE Transactions on Smart Grid, and Guest Editor-in-Chief of the Electricity Journal, special issue on Energy of the Future - Applications to Illinois.

Illinois-based electric utility Commonwealth Edison is executing upon what Dr. Shay Bahramirad, the utility's Director of Smart Grid and Technology, calls the power industry's transformation to the grid of the future. "We are bringing new-energy economy to the power grid of the 21st century," she explains.

ComEd's steadfast dedication to its customers and the community that it serves has helped it grow to Illinois' largest electric utility. With more than 6,000 employees and 2.8 million customers in northern Illinois, including the metropolis of Chicago, the utility covers 11,000 square miles and provides 24 gigawatts during its peak load. "We serve 70 percent of the entire state's population," said Bahramirad. "We are customer-focused, reliable and innovative."

Bahramirad is excited about ComEd's leadership position in redefining the power grid and is extremely passionate about her role in it. "We are one of the most forward-looking utilities in the industry," she said. "We are looking beyond grid modernization. ComEd is driving innovation and defining strategy for the utility of the future, leveraging the full power of the grid via physical, digital, and social networking."

When probed about her role in ComEd's industry leading transformation, Bahramirad replies simply, "I have the coolest job on the planet."

More specifically, she serves as a strategic business leader whose major responsibilities include leading Smart Grid organization across the company to develop the vision, business models, and investment strategy of the grid of the future initiatives such as merging technologies, microgrids and smart city deployments. She is an Adjunct Professor at the Illinois Institute of Technology, teaching Microgrids, Elements of Sustainable Energy, and Smart Grid.

She holds a Ph.D. in Electrical Engineering from the Illinois Institute of Technology, Chicago. She has earned two Master of Science degrees; one in electric power engineering, the other in computer science; both from the Royal Institute of Technology in Stockholm, Sweden. In 2014, she received the IEEE/PES Outstanding Young Engineer Award for exceptional contributions in research and deployment of Microgrids. That same year, IEEE elevated her to a Senior Member grade; and she was presented the I Power Lives award in recognition of delivering work that results in innovations or efficiencies and demonstrating value-based behaviors in an exceptional manner, presented by ComEd CEO Anne Pramaggiore. Shay is well-published, having written nearly two dozen articles and white papers.

However, she does not focus on her personal accomplishments. "I feel so privileged to be able to work with the talented team of individuals that we have here at ComEd. I am part of a team where the CEO is a great visionary. It is amazing to sit at her table and be part of a workforce that's making something big happen, rather than sitting back and waiting for the rest of the industry to do it."

Dr. Bahramirad is proud of her company's long history as a leader in the electric utility industry and its recent accomplishments. "We continually try to push the boundaries in laying the foundation for emerging technology," she said. The company is currently in

its fifth year of a \$2.6 billion smart grid investment as part of a program that was established by the Smart Grid Recovery Act. ComEd's investment includes the installation of 3.8 million smart meters by the end of 2017.

"The benefits of this investment go far beyond the traditional view of meters and a more reliable grid to new grid technologies and to non-traditional service offerings," she explained. "Some of the technologies include microgrids, smart LED streetlights, electric vehicle (EV) charging stations, fuel cells, and energy storage demonstrations. We are also leveraging our key networks to explore non-traditional potential growth areas and new business models."

"ComEd's strategy of the futuristic electric grid aligns perfectly with SGIP's initiative to advance grid modernization," said Bahramirad. "We look forward to continuing collaboration with other SGIP member utilities and being part of the SGIP working groups especially the Grid Management Working Group."

LinkedIn Update



As of March 25, 2016 SGIP will be migrating all content/posts over to the SGIP LinkedIn Company Page. All upcoming events, whitepapers, announcements etc. will be posted on the SGIP Company Page.

We encourage all our group members to follow our SGIP Company Page to stay up-to-date on the latest SGIP and industry news- if you are not currently following our page please click here and select "[Follow](#)."

As of March 25, 2016 the SGIP Group page will be closed as we focus our efforts on providing our LinkedIn followers with quality content via the SGIP Company Page.

See what's New and Coming Soon

SGIP has a new logo design! As part of our response to feedback in our 2015 Members' Survey, we are working hard to make improvements to the member experience: we've already updated our Kavi collaboration site and we are currently working on a redesign of our public website.

In response to member recommendations, we aim to improve the website environment and experience, as well as make SGIP intellectual assets, announcements, and SGIP member info, easier to reach and more accessible.



Advancing Grid Modernization

As part of this effort, we have dusted off and updated our SGIP logo design. The new SGIP logo will be launched with our newly designed website, coming soon in April 2016.

You will begin to see this new SGIP logo design as we transition our templates and SGIP materials, especially in upcoming SGIP promotion for our annual conference.

In the meantime, if you are an SGIP member, you can access the art file for the new logo in the Kavi collaboration site by [clicking here](#).

If you have any questions about using the new SGIP, please contact Lesley Strand at lstrand@sgip.org.

Save the Date November 6th through the 10th for SGIP's 2016 Grid Modernization Summit

WHAT: 2016 Grid Modernization Summit

WHEN: November 6 through Nov 10, 2016

WHERE: The Capital Hilton,
Washington, DC

WHO: Everyone! Members and non-members can attend



Taking into consideration our member's feedback from last year's conference, we are pleased to announce that this year the SGIP annual conference will be held at the Capital Hilton in downtown Washington, DC.

The conference is named the 2016 Grid Modernization Summit and the conference theme is "Accelerating Transformation."

- Like last year, the conference will include 1 ½ days of an executive forum on Tuesday and Wednesday Nov 8th and 9th followed by Working Group and Committee meetings on Wednesday and Thursday, Nov 9th and 10th.
- The Vendor Expo will be held on Tuesday and Wednesday Nov 8th and 9th with setup on Sunday and Monday Nov 6th and 7th.

- The SGIP Annual Member and Board meeting will be held Monday afternoon, November 7th.

So plan to join us, mark your calendars and save the date. More details to come.



[Click here to view the Capital Hilton.](#)

Contact Gabrielle Puccio at gpuccio@sgip.org if you have any questions.

Upcoming Events



March 29-31, Austin TX

Join ComEd, NYPA, CenterPoint Energy at ETS16 - Register Today

ets16

There's no better place than Zpryme's flagship ETS16 to debate the state and future of energy.

Our looking glass begins and ends with the stories of real people around the globe influencing the grand energy transition on March 29 - 31 in Austin, Texas.

SGIP members Raiford Smith (CPS Energy), Shay Bahramirad (ComEd), Jason Handley (Duke energy), Andres Carvallo, (CMG), and Nick Wagner (Iowa Commission) are among the scheduled speakers. Additional featured speakers include Anne Pramaggiore ComEd CEO, Scott Prochazka CenterPoint Energy CEO, Gil Quiniones NYPA CEO, and Ofer Bloch Israel Electric Corporation. Learn more at: ets16.com.

April 6, San Francisco, CA
The Energy Times Executive Conference

Penton to Host *The Energy Times'* Executive Conference

Executives of electric companies from across California and the United States will convene in San Francisco on April 6 for an unprecedented executive gathering to discuss implementation strategies for what are considered the boldest

renewable policies in the world. *The Energy Times* conference is hosted by Penton. "The California Renewables Rush" will feature analysis of those efforts by J. Andrew Murphy, Edison International senior vice president of strategic planning, and Arlen Orchard, Sacramento Municipal Utility District general manager and chief executive officer. [To learn more about the conference.](#) [To register for the conference.](#)



April 15, Washington DC
SGIP Member Steve Widergren to Present at ANSI Conference

SGIP member Steve Widergren will participate in ANSI's *Open Source, Open Standards, Open Minds* conference to be held on Friday, April 15 at the FHI 360 Conference Center in Washington, DC. The free conference will explore open source and its impact on the standards community and beyond. Steve will participate as part of an interactive panel featuring industry leaders who are working effectively within both the traditional and open source environments. During *The Right Tool for the Job: Traditional Standards, Open Source, and Hybridization*, Steve will address SGIP's OpenFMB™ as an example of how open source is meeting open standards. ANSI encourages standards developers, consortia, government, industry, business, consumer groups, and academia stakeholders attend and share their perspectives, insights, and expertise. For more information, visit ansi.org/opensource2016.

May 11, Washington, DC
SGIP and US Department of Energy will host a joint meeting at NEMA's facility in Washington, DC on May 11, 2016, to bring together industry leaders of diverse backgrounds to discuss the new landscape that grid modernization and home IoT creates.

We invite you to join the discussion on what has changed due to this new dynamic, what paradigms and approaches need reconsideration, and how enhanced connectivity can be leveraged for benefits to customers and the grid alike. Our initial discussion is intended to synthesize a set of high level issues in both business and technical domains that will enhance our collective understanding and set a path for progress in the next 9 months.

The meeting will be held at the National Electrical Manufacturers Association (NEMA) headquarters on May 11th from 8:30am-5pm. The location of NEMA's facility is: 1300 17th St N., Arlington, VA 22209

To participate in this meeting, please contact Sharon Allan directly at sallan@sgip.org.

May 17-19, Portland, OR



2016
**Transactive
Energy
Systems**

CONFERENCE & WORKSHOP

**Third International Conference and
Workshop on Transactive Energy Systems**

The GridWise® Architecture Council will convene the [Third International Conference and Workshop on Transactive Energy Systems](#) in Portland, Oregon, on May 17 - 19 the World Trade Center. The theme for this year's conference will be "Transactive Energy Systems: Harnessing Flexibility in an Evolving Electric Power System." [Click](#)

[here](#) for more information.

May 18- 21, Shenzhen, China

SGIP member Don Heirman has been invited to give Smart Grid tutorial at the [7th Asia-Pacific International Symposium on Electromagnetic Compatibility & Signal Integrity and Technical Exhibition \(APEMC 2016\)](#) held in Shenzhen, China, May 18 to 21, 2016.

The APEMC 2016 Symposium will cover both traditional and emerging topics of electromagnetic compatibility, offer a rich scientific program of highest quality with invited speakers from all over the world and provide a broad forum of exchange for both academia and industry.

In addition to the Smart Grid tutorial, Don will give an update on SGIP, our membership and current initiatives.

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