

THE CONDUCTOR

News & Activities of SGIP



July 9, 2015

President's Update



The Board of Directors held a 1-day strategy session this past month in Washington, DC. I appreciated the participation of the Directors and their thoughtful input. We focused on the 3 V's: Vision + Value = Viability. Discussion around simplification and focus ensued. We agreed upon three focus areas for 2016:

1. Drive the development and adoption of standards for interoperability for electric distribution systems

- Create a common construct for measuring interoperability
- Collaborate with Gridwise Architecture Council for the completion of interoperability maturity model and roll it out
- Continue to communicate Security control best practices and

provide more guidance on best implementation practices

- Work on best practices for procurement language (IMC)

- Create an Interoperability guidebook (IMC)

- Bring more leverage and visibility to the DRGS committee work

2. Serve as a voice for Internet of Things (IoT) for the energy sector

- Develop our IoT strategy

- Continue to grow involvement and inform industry on OpenFMB

3. Be the central go-to convener of multi stakeholders to address high load and distributed generation activities

- EV, Solar, Storage, Modeling

In line with our focus, we discussed activities that SGIP will stop doing. Final recommendation on those activities will be presented by the TC to the board. In addition, we will be looking at redefining our membership dues as well as rebranding activities. I will be communicating more on this topic as we progress.

The staff submitted two proposals in June. One for the Funding Opportunity for the "Smart Grid Interoperability Standards Cooperative Agreement Program" and another one for a DOE Funding Opportunity called "Solar Bankability." Both proposals were submitted on time and we are now waiting to hear the results. For the Solar Bankability FOA, we will be notified in early July if we were selected to progress to the next stage of submitting a full RFP response.

We added one new member in June which brings our total new members for the year to 22. Join me in welcoming CleanSpark LLC.

I noticed last month, IEEE published in its store the IEEE 1547.1a-2015, the IEEE Standard

Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems-Amendment 1. Thank you to all the SGIP members who contributed to this work.

SGIP spoke on a panel at the Muni Smart Grid Summit which was held June 22-24 in Florida. The panel was moderated by SGIP Board Director, Andreas Carvalho. SGIP member companies CPS Energy (Raiford Smith, Vice President, Corporate Development and Planning) and SMUD (Paul Lau - Chief Grid Strategy & Operations Officer) were on a panel with me discussing "Public Power of the Future."



It is great to see the continued momentum of the OpenFMB™ group. SGIP has filed for trademark of OpenFMB™. A few of our SGIP member companies recently attended Greentech Media's Gridedge Summit in California. A number of our member companies such as CPS Energy, Omnetrics, Duke, PG&E, SCE received press from the event. One of the writers, Jeff St John, wrote in his June 29th posting about a project where "Siemens and Accenture joint venture Omnetric Group's test of an open field message bus, or OpenFMB -- a technology to allow in-field energy assets to interact to solve grid-edge problems that central utility control systems may not be able to handle. It's one of the emerging standards for different companies' devices to use to make grid-edge integration simpler, cheaper and more effective." [Please click here to read this wonderful article written about OpenFMB.](#)

We continue to host our free monthly webinars so keep those topics coming. Any member with an idea or desire to present, feel free to shoot us an email.

Warmest Regards,

A handwritten signature in cursive script that reads "Sharon S. Allan". The signature is written in dark ink on a light-colored background.

Sharon Allan
President & CEO



2015 ANNUAL SGIP CONFERENCE NOVEMBER 3-5 NEW ORLEANS

ADVANCING THROUGH COLLABORATION

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Registration is now open for our Annual Conference in New Orleans, Louisiana from November 3rd through November 5th 2015!

The conference theme of “Advancing through Collaboration” will be realized through 3 days of thought leader discussions, networking, seminars, working group meetings, and technology exhibits focusing on the critical need for interoperability and sharing knowledge to accomplish the objectives of modernizing our power grid.

We expect 300 attendees and speakers comprised of member and non-member utility, vendor, and industry senior executives. Throughout the conference our vendor, utility and technology partners will demonstrate the interoperability of grid devices and their progress on collaborative microgrid projects. [Click here for a link to the agenda.](#)

We have a Sponsorship program and it is a key part of our event. Sponsorship options vary in size and cost to allow every company to participate in branding and promotion at the SGIP2015 Annual Conference. If you plan to be a sponsor, please be sure to sign up for sponsorship before you register as sponsorships may include codes that provide free or discounted registration fees.

[Click here to review our Sponsor Prospectus](#) and [sign up for a sponsorship.](#)

Register now and sign up for early bird rates! [Please click this link to find out more about our Annual Conference and to register for it now!](#)

Sign up now to be an exhibitor at the SGIP Vendor Expo, and highlight the amazing work your company is doing in grid modernization. What better way to get your message out to over 300 energy professionals. Exhibiting at the SGIP Vendor Expo is an exclusive opportunity and spaces are limited, [so sign up now!](#)

If you have any questions regarding your conference registration, hotel reservations, or need any help; please do not hesitate to contact Amanda N. Thaxton at athaxton@sgip.org.

SGIP Hosting 2 New Webinars This Month!

This July, SGIP is hosting two new exciting webinars. This month we're hosting [If you would like more information on SGIP](#)



Webinars, please [click here](#).

July 14: IEC 61850: Communication Networks and Systems for Power Utilities

IEC 61850 “Communication Networks and Systems for Power Utilities” is a powerful standard that provides a holistic view of designing and managing utility substation and field device communication, automation systems, and applications. It is a collection of multiple protocols, concepts, and component standards. Although widely deployed throughout the world it has only been lightly implemented in the United States and some utilities that have done an implementation of the standard have reverted back to historical practices.

With the objective of understanding the issues, challenges and benefits of implementing the IEC 61850 standard, we have developed a case study that presents a summary and analysis of deployments of the standard at the New York Power Authority (NYPA), Kansas City Power and Light (KCP&L), and Southern California Edison (SCE). Each utility had very different experiences and value achievement in their respective implementations. They are also quite different in their plans for future implementations.

July 21: Discussing Regulatory Challenges to Deploying Distributed Energy Resources

From energy storage to solar, deployment of Distributed Energy Resources (DER) is changing the way people use energy and is garnering substantial attention from market participants and regulators alike. This onset of DER brings with it new opportunities as well as new challenges for the regulatory community. The SGIP white paper, “Regulatory Challenges to Deploying Distributed Energy Resources” focuses on a variety of potential market and regulatory challenges that could affect the successful roll-out of DER at a large scale.

During the course of this webinar, our featured panelists will discuss these challenges as well as the common issues affecting wide-scale implementation of DER and what is being done to address them. They will discuss ways for effectively communicating needs across different sectors to reduce the different barriers. Join this webinar to hear great new ways to start the conversation with your state regulators about DER. In addition, our panelists will offer their professional opinions on best practices, and will answer questions from the audience.

GETTING TECHNICAL
UPDATES FROM THE SGIP PROJECT MANAGEMENT OFFICE

OpenFMB PAP

The OpenFMB FAQ has been posted on the [SGIP website](#).

The team’s next Face-to-Face is happening now at EPRI’s facilities in Charlotte, NC. The meeting is open to SGIP members only. The agendas for both days and all the breakouts is posted on SGIP’s [OpenFMB collaboration site](#).



The OpenFMB™ team is actively pursuing multiple tasks and deliverables under an extremely aggressive schedule with the intent of presenting an interactive OpenFMB™ EnergyIoT™ microgrid demonstration at SGIP's Annual Meeting. The team is developing a representative information model for 3 microgrid use cases developed by the project team in April – June.

The team is also developing FAQs, presentations, and a script for the OpenFMB™ EnergyIoT™ Demonstration in NOLA. The demonstration will include multiple utilities and multiple vendors performing peer-to-peer monitoring, communication, and control to show an unscheduled disconnect, grid-connected and islanded optimization, and a grid reconnect. It will be quite a show!

Cybersecurity Task Force

The SGCC has begun two new projects. The first is a case study that provides the business cases, methodologies, and lessons learned by utilities as they implemented voluntary risk management and cybersecurity frameworks and guidelines such as NISTIR 7628 and DOE's Electricity Subsector Cybersecurity Capability Maturity Model (ES-C2M2) into their operational environment. The case study will be drafted over the next several months with an expected draft completion date in time for the SGIP Annual Meeting in New Orleans on November 3rd-5th. To learn more or to participate, contact Vicky Pillitteri (victoria.pillitteri@nist.gov).

The second project will begin later this month and will focus on creating a guide of HOW to implement voluntary guidelines in everyday utility operations. We are actively seeking utility and cyber security volunteers for this effort. Contact Stuart McCafferty (smccafferty@sgip.org) if you are interested in learning more.

Catalog of Standards Candidate Ballots

Six ballots opened on May 15th with at least 25% of the Participating Membership in the voting pool for each of the documents.

- American National Standard For Utility Industry End Device Data Tables (ANSI C12.19-2012)
- Model of a demand-response energy management system (IEC 15067.3)
- Power systems management and associated information exchange - Data and communications security - Part 8: Role-based access control (IEC 62351-8)
- Utility Industry Metering Communication Protocol Application Layer - End Device Data Tables - (IEEE 1377)
- Standard for Low Frequency (less than 500 kHz) Narrow Band Power Line Communications for Smart Grid Applications (IEEE 1901.2)
- Guideline for the Implementation of Coexistence for Low Frequency Narrowband Power Line Communication Standards in the Smart Grid (NIST IR 7943)

Second reminder will be July 14th, and a final reminder at noon on August 14 with the ballots

closing at 11:59pm (ET) on the 14th.

Facility Smart Grid Information Model Public Review

SGIP PAP 17 resulted in a standard development activity lead by ASHRAE and NEMA called Standard Project Committee 201P (SPC 201P) Facility Smart Grid Information Model. At the June meeting of SPC 201P, the committee took action to initiate a publication public review of the draft standard. Under ASHRAE rules, voting members of the committee who were not present for the meeting are given an opportunity to vote by email ballot before the committee decision is final. That process is underway now.

It is expected that the public review will be approved. The exact dates of the public review period are not yet known. Under ANSI requirements at least two weeks advance notice must be provided before the public review can begin. Announcements will be made in ANSI Standards action and many other places including through SGIP.

Once the standard has been finalized and published, it will move into the Catalog of Standards process where it will be reviewed by the SGIP's PAP-17 team for compliance with their requirements, the architecture committee for adherence to architectural best practices, and the cybersecurity committee for compliance with security guidelines. At that point it will then move to the PMO and Technical Committee to bring to SGIP participating members for a vote.

Kickoff Event to Launch NIST Transactive Energy Modeling and Simulation Challenge Is Planned for September 10, 2015

The Transactive Energy Modeling and Simulation Challenge for the Smart Grid ("TE Challenge") will begin formally with a Kickoff event at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, on September 10, 2015. The TE Challenge, initiated by NIST and developed in collaboration with federal partners and industry, will help the industry better understand the potential for transactive energy (TE) and create a path for real-world trial implementations.

The TE Challenge will bring researchers and companies with simulation tools together with utilities, product developers, and other grid stakeholders to create and demonstrate modeling and simulation platforms while applying approaches to real grid problems. The "challenge" format, by providing an opportunity for newly formed teams to undertake interesting TE projects, will promote collaboration within the community, increase our understanding of TE's usefulness, and advance the tools for TE.

SGIP, through its Transactive Energy Coordination Group (Steve Widergren, Chair), has been an active participant in TE discussions, and the Coordination Group will be meeting at the Annual Conference in New Orleans, Nov. 3-5. Another SGIP contribution to this overall effort is a White Paper published earlier this year, "A Model Interoperable Transactive Retail Tariff," developed by the SGIP Building-to-Grid and Industry-to-Grid Joint Domain Expert Working Groups.

SGIP is hosting a webinar at 12 p.m. EDT on August 6 to provide more information about the TE Challenge and SGIP's TE-related work.

[The [TE Challenge website](#) provides information about the challenge timeline, goals, and potential participants. In the coming weeks, it will be updated with details about the Challenge Concept, as well as registration information for the September 10 Kickoff event.]

Upcoming Events

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[Please click here to register for this webinar now!](#)

July 21: DER White Paper Presentation Webinar

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