

THE CONDUCTOR

News & Activities of SGIP



November 13, 2015

President's Update



Members,

I am pleased to announce that SGIP won the NIST Funding opportunity which we submitted via a competitive bidding process in June. I have been working through the final details with our NIST contracting specialist. We will receive \$2.1M when it is all finalized over the course of the next three years; which will breakdown as follows: \$900k for 2016, \$700k for 2017, and \$500k for 2018. We look forward to continuing our relationship with NIST.

I am also pleased to announce that SGIP was selected for the DoE Funding Opportunity that we also bid in June, called "Solar Bankability." We are currently in the process of negotiating this award which is for \$1.5M over two years. SGIP bid with two subcontractors (NREL and SEIA) and the negotiation process is active and not yet finalized.

Last but not least, I want to thank all of you who attended and supported our Annual Conference in New Orleans. We have already received two new SGIP members from the event. Welcome! I also want to express my warm thanks for the various emails received in since the event. Kudos to all who stayed for the very last meetings on the last day from 4 pm-5 pm on Thursday... the Grid 3.0 and the EnergyIoT™ & Open Field Message Bus™ committees. The OpenFMB™ group had over 45 in attendance. I sat in on the DRGS subcommittee on Thursday and also noticed a number of new folks in attendance.

Thank you to all who contributed to make the event a success.

Regards,

A handwritten signature in blue ink that reads "Sharon S. Allan". The signature is written in a cursive, flowing style.

Sharon Allan
President & CEO

SGIP Closes Annual Conference in New Orleans



More than 70 thought leaders from utilities and other power-sector participants addressed SGIP conference attendees. In addition, SGIP drew nearly twice as many attendees at our Annual Conference this year. CEO Keynote speakers included Charles Rice, CEO and President of Entergy New Orleans, who gave attendees a warm welcome to New Orleans, as well as Calvin Butler, Jr. CEO and President of BGE, who showed how his utility maintains strong relationships with constituents through his presentation on “Keeping Customers at the Heart of Change.”

Throughout the conference, attendees took guided tours of “Edgeville” in the Vendor Expo via the EnergyIoT™ OpenFMB™ field demonstration, a multi-vendor, peer-to-peer exhibit based on three microgrid-related use cases, presented in collaboration with Duke Energy and eight other utility members. The demo, a culmination of 6 months of focused work by dedicated volunteers representing multiple stakeholder communities, was highlighted by an animation to illustrate their work. [Click here to view the animation now.](#)

“The expanded format of this year’s conference included an executive industry forum, coupled with a day of technical workshops and the Vendor Expo, which well served SGIP members and non-members alike. The impressive array of industry leaders who volunteered their time to share their insights at our conference tells me SGIP is focused on the issues that really matter to utilities,” said Sharon Allan, president and CEO of SGIP. “The need for interoperability and understanding of grid-edge technologies will only increase in coming years. That’s why SGIP will work hard to expand next year’s conference to accommodate even more industry participants.”

Duke Energy Receives SGIP 2015 President's Award

During the President's Gala Dinner Tuesday, November 3rd, in New Orleans, Duke Energy was called on stage on to receive the SGIP's 2015 President's Award. This year's award was for the collaboration with Duke Energy on SGIP's OpenFMB™ project. Duke has been instrumental in our OpenFMB™ project.

Please wish Duke Energy congratulations for winning SGIP's 2015 President's Award!



SGIP Published Three New White Papers This Month



This month SGIP has published three new white papers on the following topics:

- [Basic Application Profile for Distribution Feeder Measurement based on the IEC 61850 Standard](#)
- [Application Note on IEEE 1613-2009 and IEEE 1613.1-2013](#)
- [Use Cases on Information Support of Interactions between Advanced Microgrids and Electric Distribution Systems](#)
- [IEC 61850 Information Model Concepts and Updates for Distributed Energy Resources \(DER\) Use Cases and Functions](#)

Click the above titles to read these fascinating white papers.

SGIP Would Like to Welcome Our New Members

SGIP would like you to help us welcome our two newest members:

- SUBNET Solutions
- Softgrids

OpenFMB™ News



The OpenFMB™ team demonstrated its first set of use cases supporting microgrid operations at the SGIP's Annual Meeting in New Orleans last week. Industry participants in the demonstration included:

- General Electric – Robby Simpson
- Duke Energy – Stuart Laval, Dwayne Bradley, David Lawrence
- National Instruments – Steve McAlanon, Brett Burger, Roger Hebert

- Real Time Innovations (RTI) – Jim Bentley, John Breitenbach, Brett Murphy, Reinier Torenbeek
- OMNETRIC Group – Jim Waight, Shailendra Grover
- Green Energy Corporation – John Camilleri, Daniel Evans, Michael Sinclair
- Electric Power Research Institute (EPRI) – Glen Chason
- Oak Ridge National Laboratories (ORNL) – Drew Herron, Dan King
- PowerHub – Glenn Skutt

The two-day demonstration proved that an Industrial Internet of Things (IIoT) approach to integrating different equipment, systems, and technologies is viable and can be performed fairly rapidly. In fact, the team spent only 5 months developing a concept conceived last March, leveraged existing information models, extended existing microgrid use cases, and developed UML and application code, which culminated in a live demonstration at the Annual Conference during the first week of November.

Attendees at the conference were able to visit the fictional town of Edgeville and participate in the interactive demo by twisting knobs, flipping switches, and asking questions. And, everything worked! If you missed the conference and demo, you missed an industry must see event! There will be other opportunities in the coming months.

Special thanks to all the above-named companies and individuals that made this happen. Several attendees have asked about taking the demo “on the road”, but, at present, our work plan and budget for Phase 1 does not support that. However, the demonstration will also be live at DistribuTECH, hosted by Duke Energy, on February 9-11 in Orlando, Florida. Be sure to put it on your 2016 calendars to see the OpenFMB demo at DistribuTECH.

OpenFMB™ Cartoons Finalized

Welcome to Edgeville and the SGIP's newest EnergyIoT solution, OpenFMB™. The SGIP Open Field Message Bus (OpenFMB) team released two cartoons to bring awareness and understanding around the Industrial Internet of Things (IIoT) framework designed for peer-to-peer, machine-to-machine, field operations.

The **Overview Cartoon** provides a high-level discussion of the concept. The **Use Case Cartoon** explains the first 3 microgrid use cases and the demonstrations which were shown at the SGIP Annual Conference in New Orleans November 3-5, 2015 and will be shown again at DistribuTECH in Orlando February 9-11.



OpenFMB™ Team Begins Preparing for 2016 Phase 2

The SGIP OpenFMB™ team has begun developing high level requirements for the preparation of a Phase 2 work plan for 2016. Phase 2 will address security, the concept of plug-n-play, and new use

cases that address business cases other than microgrids. The team will also look at beginning with a different semantic model, such as MultiSpeak™ or IEC 61850.

Utility focused Cyber Security Guidelines



The Smart Grid Interoperability Panel (SGIP) launched an electric utilities focused cooperative effort to develop cyber security guidelines for electric utilities.

The kick-off meeting was held as part of the Smart Grid Cybersecurity Committee (SGCC) workshop on Nov 5, 2015 at the SGIP Annual Conference. This effort will focus on identifying how to effectively use the Dept of Energy ES-C2M2 (Electric Sector – Cybersecurity Capability Maturity Model) and NIST Cyber Security Frameworks in Smart Grid domains of generation, transmission, distribution and energy resources integration.

A weekly call will be held every Thursday with SGIP members from utilities and vendors. Please contact **Ramesh Reddi** if you have any questions on the Cyber Security Guidelines or the weekly call.

Technical Committee Announces General Rules for Working Groups

The SGIP Technical Committee, led by Chairman Steve Widergren, announced today the following rules of engagement for all SGIP Technical Working Groups - DEWGs, PAPWGs, Committees, and Task Forces:

Leadership Elections: Each group should conduct a leadership election at least every 2 years. Please review your group's charter to see that this is in place, if not make the appropriate amendments. Also, please plan to conduct a group leadership election in accordance with your charter. If a leadership election has not been done within the time frame of your charter or within 2 years (whichever is shorter), please complete the election by 31 Dec 2015.

Meeting agendas: Ensure your meetings have pre-published agendas.

Meeting minutes: Ensure that you capture and post minutes of your meetings.

Technical Strategy: The TC is working with SGIP leadership to contribute to the technical strategy of the organization. Please review this material as it becomes available and contribute your group's desired strategic directions to the TC.

Meeting Participation: Share your ideas with the TC on how to increase member participation in your groups.

Working Group Changes

The SGIP Board of Directors approved the Technical Committee (TC) recommendations based on an organization-wide technical health assessment conducted from June-September 2015. With the intent of streamlining the organization and ensuring value for SGIP members, the TC established a Task Force to address each technical working group within the SGIP organization. The objective was to "assess the health and viability of the member committees and working groups.

The Task Force researched the following areas:

- Meeting frequency
- Attendance
- Activities
- Deliverables

Issues identified were discussed with the group leads to determine the causes and review potential changes. The Task Force then reported their findings to the TC where they were discussed and recommendations were debated.

In general, there were several high points with very healthy attendance, frequent meetings, good leadership, and happy members. Groups like the OpenFMB PAP Project Team, the Distributed Renewables, Generation, and Storage (DRGS) Domain Expert Working Group (DEWG), and the Home to Grid (H2G) DEWG stood out as extremely popular and vibrant efforts.

However, some organizations had limited attendance, were struggling to find relevant activities which were not already being addressed in other organizations, or had not been meeting for some time. The following recommendations were made by the TC and accepted by the Board of Directors for these organizations:

- **IMC**
ACTION: IMC chair complete outreach to members, plan meeting at Annual Conference to review vitality in 3 months
- **V2G**
ACTION: disband the V2G
- **BnP**
ACTION: continue to hold meetings and review vitality of the group in 3 months
- **TnD**
ACTION: Complete TLBM whitepaper and disband TnD
- **EMII**
ACTION: WG Chair complete discussion with members to merge with TCC
- **B2G/I2G/H2G**
ACTION: Hold joint meetings and develop a plan to merge H,B,I2G to one group

We believe regular health checks and organizational changes will ensure that SGIP continues to pursue relevant work that lead that better member experiences and opportunities to affect key Grid Modernization needs for the community. If you have questions, please contact [Stuart McCafferty \(VPO\)](#) or [Steve Widergren \(TC Chair\)](#).

PAP 17 Facility Smart Grid Information Model Update

Led by PAP-17 Chairman, Steve Bushby, the Facility Smart Grid Information Model action plan, is on the final lap. The final deliverable is the Smart Grid standard being developed by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE). BSR/ASHRAE/NEMA Standard 201P was released for public comment in July, 2015. The public comment period resulted in 13 comments, which are expected to be resolved this December. A final, shorter comment period is likely in January, with an expected ratification in early 2016.

Once ratified, the BSR/ASHRAE/NEMA Standard 201P will be placed in the SGIP Catalog of Standard (CoS) queue for review by the SG Architecture and SG Cybersecurity Committees and moved into the SGIP's CoS balloting process for vote by SGIP Participating Members.

Kavi Site Changes Ahead

We are currently working with Kavi to enhance your collaboration experience. An upgrade is planned for the week of November 16, 2015. Please be patient as there may be times when the Kavi site is unavailable as we roll over to the new environment.

The new features will make the environment cleaner and easier to navigate. New features such as Jot, a multi-user web-based editing platform, will enhance SGIP collaboration capabilities and the overall user experience.

NIST Transactive Energy Challenge is Underway; Interim Workshop Planned for December 3-4, 2015

At a Kickoff Workshop on September 10-11, 2015, **NIST launched the NIST Transactive Energy Modeling and Simulation Challenge for the Smart Grid (TE Challenge)**. Forty transactive energy (TE) experts from industry, academia, and government—including a number of SGIP members—met in Gaithersburg, Maryland, with a common goal of creating and demonstrating modeling and simulation platforms while applying TE approaches to real grid problems.

The workshop opened with a half day of presentations on the status and direction of TE and the vision, goals, and format of the Challenge. **(These presentations, along with other useful resource materials, are archived online in the TE Challenge library.)** The rest of the workshop was devoted to interactive sessions where participants assembled into teams that reflected shared interests.

By the time the workshop concluded, five teams had been formed and had begun planning their projects in the following areas:

- Reference Grid and Scenarios
- Co-simulation Platform
- Business and Regulatory Models for TE
- Abstract Interactions for TE
- Microgrids—Implementing TE

In the coming weeks and months, the teams will further develop their projects, with the goals of advancing TE, building a professional community, and driving collaboration and understanding. As interest in the Challenge continues to grow, new participants will be joining existing teams and new teams in other areas will be forming.

For those interested in TE in general—and the TE Challenge in particular—two good ways to learn more about these projects and become engaged in their efforts are the following:

1. **Visit the TE Challenge Collaboration Site** to see which organizations are involved in which teams (**with team work plans**), and **join the Challenge**.



2. Attend the TE Challenge Interim workshop, to be held December 3-4, 2015, at NIST's facilities in Gaithersburg, Maryland. The purpose of the interim workshop is to focus the vision, build up existing teams, and form new teams. [Draft agenda](#) and [registration information](#) are available online.

SGIP Members Receive 50% Discount for Smart Grid Today

SGIP members receive a 50% discount on Smart Grid Today and Utility Markets Today. The special SGIP rate is only \$548 for one year (245 issues) of Smart Grid Today and \$444 for Utility Markets Today and is available to first-time subscribers. To take advantage of this special rate, members can call +1-301-769-6804 (+1-888-471-4447 toll-free in the U.S. and Canada) and mention that they were referred by SGIP.

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