

# THE CONDUCTOR

News & Activities of SGIP



September 3, 2015

## President's Update



Members,

I was struck this past month by the announcement of Google to rebrand to "Alphabet." One of the founders said in their announcement that "in the technology industry, where revolutionary ideas drive the next big growth areas, you need to be a bit uncomfortable to stay relevant." They admitted they were all getting used to the new name but explained why they were making the change. It reminded me that change is uncomfortable but necessary to bring about transformation.

Being relevant to our industry and our members is fundamental.

This is also why we have started the 'Members Only Roundtable' so that I can hear what you are working on, what is top of mind for your company, what work you are doing to make a difference in the industry, and how SGIP can be relevant to help. The calls are a way for you to directly connect and have your ideas, thoughts, and industry needs heard. I am hosting the calls so I can 'lean in' and listen to your ideas. I invite you to join the conversation by signing up here.

Our upcoming Annual event is a perfect way for you to connect, interact with key industry leaders, and listen and utilize information from our membership work. We will have a Vendor Expo area this year featuring some of our member companies. Be sure to sign up before the Early Bird special ends.

### DOE FOA

SGIP responded to some DOE comments to our RFP on the DOE FOA on Solar Bankability data this month. We are now waiting to hear the outcome of our submittal. The award will not be announced until this November. If we win this RFP, SGIP (supported by our partners NREL and SEIA) will lead a 24-month Stakeholder and Engagement Management Project focused on Solar Bankability data to advance transactions and access of solar data. The objective is to drive out inefficiencies in data exchanges and thereby reduce soft costs associated with solar projects

### Regulatory, Policy, & Government

#### Clean Power Plan

On August 3, President Obama and EPA announced the Clean Power Plan. The plan sets limits on carbon pollution from power plants. There is a 32% reduction in greenhouse gas emissions by 2030 compared to 2005. This will continue to foster interest in customer demand side management

programs and distributed energy resources and storage especially solar as states look for ways to reduce emissions.

Regards,



Sharon Allan  
President & CEO

## Join Sharon Allan for an Industry Discussion



Join us for an SGIP Members Dialog with SGIP President and CEO, Sharon Allan for an opportunity to share your views on SGIP membership, what you need, what you want as well as an industry discussion on, “Energy meets the Internet of Things” and

“Distribution Connected Generation?” Sharon welcomes the opportunity to speak to you directly and to get your views on this month’s topics.

To start the discussion please follow the link to the advance [discussion survey and give us you’re your input](#), then click on [this link](#) to register for the webinar and to speak to Sharon directly.

The webinar begins today at 1:00 PM EST. Register now to have your chance to discuss SGIP’s strategic plan, membership concerns, and general industry concerns.

## Early Bird Rates End in 15 Days!



Join industry thought leaders, amazing speakers, exhibitors, sponsors and more at SGIP’s Annual Conference.

The SGIP Annual Conference takes place in the vibrant city of New Orleans, Louisiana at the centrally-located InterContinental Hotel. The 2015 Annual Conference promises to be filled with the latest in grid modernization and many networking opportunities for members and guests to reconnect and collaborate.

Our Keynote speakers include:

- Charles Rice, CEO of Entergy
- Charles Butler, CEO of BGE
- Sharelynn Moore, Vice President of Global Marketing and Public Affairs of Itron
- Michael Carlsson, President of Smart Grid North America of Siemens

In addition to many more speakers! **Take a look at our schedule to see all of the fantastic panels that we have scheduled, including an OpenFMB panel.**

**Click here to register now, and head down to the Big Easy with SGIP!**

## GETTING TECHNICAL

UPDATES FROM THE SGIP PROJECT MANAGEMENT OFFICE

### OpenFMB PAP

The OpenFMB project team has completed their modeling efforts, led by Shawn Hu of Xtensible Solutions. The activity has now shifted to preparing for the November demonstration, securing hardware from participating vendors, developing adapters and applications, and staging the system for the microgrid demonstration.



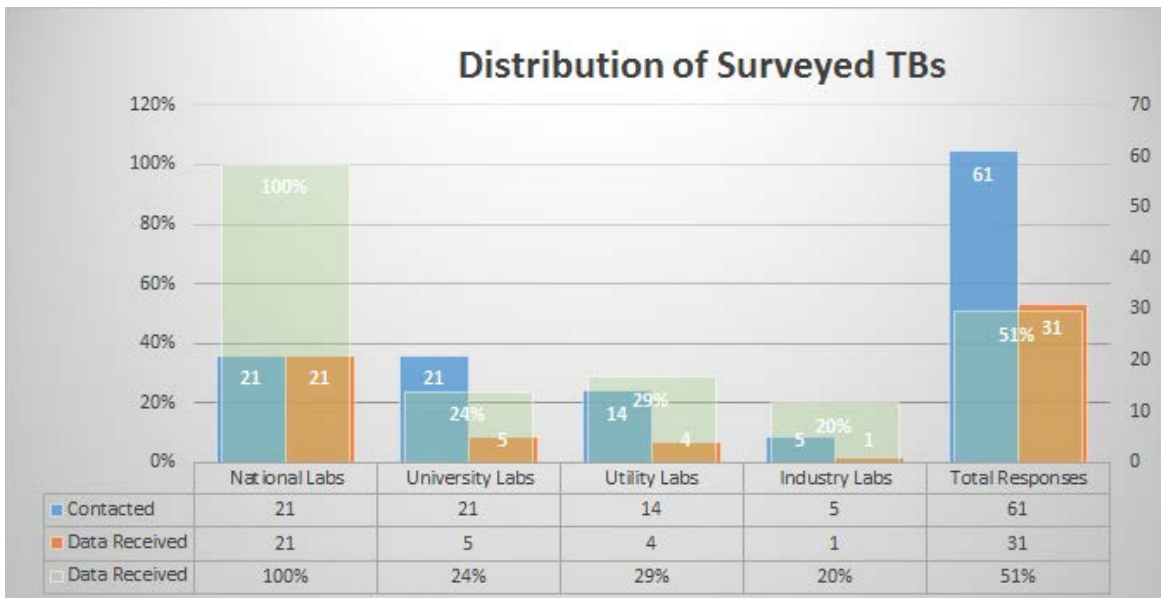
Additionally, the OpenFMB team selected the winning logo, which will be used for marketing and branding. The team plans to stand up a website which will support an OpenFMB community with tools, documentation, and an app store. They are also developing a series of articles, providing details on the project. **The first article was published in Smart Grid News this week.**

### Catalog of Standards

The CoS added 6 new standards to its roster after another successful SGIP membership vote, bringing the total number of entries to 75. The new entries include:

- 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)

### Test Beds



The test bed characterization project, led by Dr. Bob Dumas, is gathering steam. More than half of the North American test beds that were identified in the landscape study performed earlier this year have now provided feedback which has been entered into a spreadsheet. Special thanks to all the respondents – and kudos to DOE and the National Labs for providing 100% response rate!

The next task in this effort is to begin an analysis looking for patterns, gaps, and collaboration opportunities. The results will be compiled and documented in a report which is expected to be completed in time for the **SGIP Annual Meeting in New Orleans in November**. The report will be free to all SGIP members.

## Please Say Hello to Our New Staff Member, Lesley Strand



We are pleased to introduce Lesley Strand to our staff. She is replacing Billie Zidek who has taken another job. Lesley has served in a variety of Executive Assistant roles in both the technology and energy sector. She lives in Charlotte, NC with her husband and 3 kids.

Please reach out and welcome her to our team. She can be reached at [lstrand@sgip.org](mailto:lstrand@sgip.org) for your program needs.

## Industrial Internet Consortium (IIC)

Last year, the SGIP entered a MOU relationship with the IIC to coordinate on IoT efforts such as OpenFMB. The IIC is a young organization whose goal is to accelerate the growth of the Industrial Internet by driving innovation and defining reference architectures and frameworks. The

relationship has strengthened through collaboration on our OpenFMB™ and formalized liaisons. The SGIP's liaisons to IIC include:

1. SGIP Members
  - a. Slobodan Matic, General Electric
  - b. Brett Murphy, National Instruments
2. SGIP Staff
  - a. Stuart McCafferty
  - b. John Gillerman

By 2025 the Internet of Things is projected to affect the global economy by 6.25 Trillion dollars.

Energy is but one vertical segment implementing connected devices and servers. As more devices whether behind the meter, on the distribution wires, in the substation, utility enterprise, or mobile workforce as well as the customer base become more connected, the need for interoperability of devices is key. SGIP is collaborating with IIC to bring consistency of architecture and interoperability a reality for our energy utilities and service providers.

The SGIP's EnergyIoT™ focus area is centered on merging the Internet of Things and Energy. Our strategy will advance interoperability by leveraging existing processes and standards and applying common, secure IoT technologies to create a fabric that is secure, reliable, resilient, and flexible. Our newest EnergyIoT™ Priority Action Plan, OpenFMB™, is a utility-led project dedicated to incorporating common utility data models and applying IoT communication and publication/subscription protocols to create an Open Field Message Bus. This approach creates a modern methodology where devices and systems can easily communicate with one another, unlocking new opportunities for innovative features and field applications in a common, modern framework.

## **News from the National Institute of Standards of Technology**

### **Seeking Participants in the ANSI/NEMA SG-IPRM Canvass Group**

The Smart Grid Interoperability Panel (SGIP) and the National Electrical Manufacturers Association (NEMA) are working together to convert the Interoperability Process Reference Manual (IPRM) into an ANSI/NEMA standard. We are seeking volunteers to participate in a canvassing committee for the purpose of developing an American National Standard.

The IPRM is a foundational element of the vision of the SGIP Smart Grid Testing and Certification Committee (SGTCC). The SGTCC developed and issued the IPRM to detail the committee's recommendations on testing and certification processes and best practices that enhance the introduction of interoperable products in the marketplace. These recommendations build upon international standards-based processes for interoperability testing and certification.

The IPRM defines a process by which stakeholders in the smart grid sector may procure, test, and assert interoperability between disparate vendors of smart grid products to identified standards. This standard will define requirements and recommendations for general test policies, test suite specifications, test profiles, interoperability testing and certification authority technical programs, governance, laboratory qualifications, and (process) improvements. Finally, this standard will describe an implementation approach.

We are seeking participants in the following categories:

1. General Interest: Organization or individual that has an interest in the use of equipment included

- in the scope of this standard (i.e., smart grid products), but doesn't use it directly;
2. Producer: Manufacturer of equipment included in the scope of this standard;
  3. Testing Laboratory: Organization that tests equipment included in the scope of this standard to established specifications; and
  4. User: Organization that uses equipment included in the scope of this standard. We especially need additional participants in the User category.

If you are interested in participating, please contact the group's Secretary, Khaled Masri, at [khaled.masri@nema.org](mailto:khaled.masri@nema.org) or the group's Chair, Cuong Nguyen, at [cuong.nguyen@nist.gov](mailto:cuong.nguyen@nist.gov).

### **Transactive Energy Challenge: Kickoff Event (Sept. 10-11, 2015)**

On Sept. 10-11, 2015, the Transactive Energy Modeling and Simulation Challenge for the Smart Grid (TE Challenge) will be launched with a Kickoff event at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland. 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 transactive energy (TE) approaches to real grid problems. It will help the industry better understand the potential for TE and create a path for real-world trial implementations

For information about the challenge timeline, goals, and potential participants, please visit the [TE Challenge website](#) or the [TE Challenge collaboration site](#). To view the agenda and register for the Kickoff event, please visit the conference website. (Registration is encouraged by Thursday, September 3.)

SGIP, through its Transactive Energy Coordination Group (Steve Widergren, Chair), has been an active participant in TE discussions, and several members of the group will be attending or presenting at the September Kickoff event. In an August 6 webinar, TE leaders from NIST and SGIP presented draft plans of some organizations planning to participate, as well as information about how you can get involved and benefit from the Challenge. [Visit SGIP's website to see the TE Challenge Webinar Archive.](#)

### **Upcoming IoT Events re: Smart Cities Week and the Global City Teams Challenge**

One of the signs of rapidly growing interest in the Internet of Things (IoT) is the number of Smart City events being held around the country and world. This fall features two such events in Washington, DC.

[The Smart Cities Week 2015 event in Washington, DC](#) (Sept. 15-17, 2015) is billed as "the first event of its kind in North America." A number of SGIP member companies are listed among the sponsors. Among sessions that will be of special interest to SGIP members are the following:

- "The Energy Grid: Foundation of Smart City 2.0"
- "Global City Team Conversations"
- "Addressing Momentary Outages"
- "Microgrids, Smart Grids and Energy Resilience"

A special workshop on ["Accelerating Smart City Deployments,"](#) hosted by Georgetown University on September 17, will include a presentation from the National Institute of Standards and Technology (NIST) serving as a "preview" of the [Global Cities Team Challenge \(GCTC\)](#) for 2016.

An important meeting for the next round of GCTC effort will be held at the NIST campus in Gaithersburg, Maryland, on November 12-13, 2015. Please save the date! (More information, including the agenda, will be available soon.)

## Upcoming Events

### September 15-17: Smart Cities Week, Washington, D.C.

*Smart Cities Week 2015 event in Washington, DC (Sept. 15-17, 2015). Sponsored by the Smart Cities Council, the event will include two GCTC-moderated sessions (Tuesday, Sept. 15, from 5:10 to 6:00 PM. and Wednesday, Sept. 16, from 9:30 to 10:10 AM) reviewing past successes and future plans of the GCTC program.*

### September 30-October 1: World Energy Engineering Congress, Orlando, Florida

*If you're planning on going to the World Energy Engineering Congress, Jason Handley is speaking at the Microgrid and Energy Resiliency panel. His specific topic will be, Load Optimization and it's scheduled from 2:30 - 3:00 PM.*

### November 3-5: SGIP Annual Conference, New Orleans, Louisiana

*Join SGIP in New Orleans this October for our Annual Conference. We've put together some of the industry's thought leaders for our panels and sessions, and arranged some amazing exhibitors for our guests. [Click this link to find out more about Annual Conference.](#)*

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Smart Grid Interoperability Panel  
401 Edgewater Place, Suite 600  
Wakefield, MA 01880  
SGIP.org