



June 16, 2016

## President's Update



Members,

In mid-May, SGIP and DOE hosted a meeting with various technology companies on the topic of Energy IoT and Home/building automation. Some of the traditional HVAC manufacturers agreed to have a follow up discussion with regard to the state of some of the new IoT technology. SGIP and DOE will have follow up conversations on the topic. Over the past month, SGIP also held a meeting hosted at ComEd with the utility Grid Management Working Group team. The group which is made up of Engineering Planning, Operations, and Architecture utility personnel continue to capture requirements that will be used in future system procurements. The outcome from the Grid Management Working Group meetings will be to drive sourcing for systems that will accommodate existing and future needs impacted by

high penetration of DER. By working together, the utilities believe they will be able to better move the industry to support the requirements needed.

SGIP has begun preliminary conversations with some of the GMLC projects that are kicking off. For those of you who are not aware, Secretary of Energy Moniz announced the Grid Modernization Lab Consortium earlier this year. The GMLC is a blueprint for modernizing the grid. The \$220 million over three years, subject to congressional appropriations, funds DOE's National Labs and partners to support critical research and development in advanced storage systems, clean energy integration, standards and test procedures, and a number of other key grid modernization areas. SGIP will be working on 4 of the GMLC projects: Interoperability, Grid Architecture, Standards and Test Procedures for Interconnection and Interop, and Definitions, Standards, and Test Procedures for Grid Services from Devices.

This month, the [Facility Smart Grid Information Model \(FSGIM\)](#), was published as ANSI/ASHRAE/NEMA Standard 201P. Congratulations to the SGIP PAP17 team for their contribution to this standard and publication.

Focusing on what is important to our members is our focus. We are pleased to extend a warm welcome to Red Hat for joining SGIP.

A handwritten signature in blue ink that reads 'Sharon S. Allan'.

Sharon Allan  
President and CEO

## Announcements

### FSGIM -- Newly Published Standard Will Integrate Control Technologies into the Grid

Last week, [SGIP](#) announced the publication of the new ANSI/ASHRAE/NEMA Standard 201P, *Facility Smart Grid Information Model (FSGIM)*, which will open the door for electrical energy consumers to participate in smart grid networks. The standard is packaged with a User's Manual.

The 201P *FSGIM* standard provides a way to model real building systems as a combination of four abstract components: loads, generators, meters and energy managers. It is to be used as a common framework to guide the development of these control technologies so that they can meet the control needs of a smart grid environment.



>>> [Read more about the standard.](#)

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### PMO Update from Aaron Smallwood, SGIP Director of Technology Operations

Read the latest PMO update as SGIP's Aaron Smallwood discusses two successful [webinars](#) (OpenFMB and Orange Button), a [Catalog of Standards](#) update, a new working group and standing member committee charter template, and a leadership change coming to the Smart Grid Architecture Committee (SGAC) - all valuable information!

You also won't want to miss information on three upcoming events -- an OpenFMB in-person meeting at the end of June, an Orange Button Kickoff meeting in July, and a series of in-person Orange Button working group meetings in the San Francisco area.

Stay up to date and click below to learn about all of the above hot topics!



[Learn More](#)

## SGIP Staff News

### Introducing Mohammad Rahman

Mohammad Rahman joined SGIP on June 2nd as our Technical Program Manager and will be supporting our efforts to advance SGIP's technical agenda. He will be SGIP's key technical resource involved in the Grid Modernization Lab Consortium (GMLC) announced earlier this year by the U.S. Department of Energy. In addition to the GMLC effort, Mohammad will be working with SGIP members and stakeholders in executing the Catalog of Standards review process. He will also work with Priority Action Plan teams to ensure they have any resources and support



they need. Mohammad will also be the SGIP lead on the Smart Grid Architecture Committee.

Check out Mohammad's bio [here](#).

## Member Spotlight

Each month, SGIP shines the spotlight on a member who is making an impact in his or her professional field and association. These members exemplify the mission of SGIP to advance grid modernization.



### Mark Ellison from DTE Energy

Mark Ellison is an IT Senior Security Engineer at DTE Energy and has worked in the critical infrastructure cyber security space for over 10 years.

Mark is currently the lead for the SGIP NIST Cybersecurity Framework Implementation Case Study Subgroup and was the subgroup lead for the NISTIR 7628 User's Guide Subgroup.

He has his CISSP certification and a degree in Computer Science.

>>> [Click here to read Mark's interview.](#)

## SGIP News

### New Leadership Coming to the Smart Grid Architecture Committee

The Smart Grid Architecture Committee (SGAC) will need a new Chair soon, as Ron Cunningham, IT Enterprise Architect at American Electric Power, is completing his term. Over the past two years, Cunningham has moved SGIP closer to its goals by streamlining review processes for standards, guiding the architectural rigor of the committee, proposing new ideas, and more.

Once Cunningham's term ends, three SGAC leadership positions will be open: Chair, Vice-Chair, and Secretary. Anyone interested in any of these positions should contact a member of the Technical Committee.

The primary function of the SGAC is to create and refine a conceptual reference model, including lists of the standards and profiles necessary to implement the vision of the Smart Grid. If you are interested in joining the SGAC as a member, [click here](#). To see a list of SGIP committees, [click here](#).



[Read More](#)

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## Grid Management Working Group Update

**Date:** June 23, 2016

**Time:** 8:30 a.m. to 5:00 p.m.

**Where:** Fairmont Hotel, 170 South Market Street, San Jose, Calif.

SGIP will host a Grid Management Working Group Meeting in San Jose, CA. Utilities are welcome to join us on June 23 from 8:30 a.m. to 5:30 p.m. at the [Fairmont Hotel](#) (Sacramento Room). If you're not in the area, don't worry -- you can attend via teleconference.

We'd love to hear your thoughts on protection control with high penetration of DER. Other meeting goals include developing a shared understanding of systems, processes, and optimizations necessary for this type of protection control; identifying and discussing the technical, operational, and business requirements; and generating requirements to be used in future sourcing or roadmap plans.

The meeting is located at the same hotel as the [Grid Edge World Forum](#). If you would like to attend both, use our discount code (**SGIP15**) for a lower Grid Edge registration fee (\$595 instead of \$1,895).

Register Now!

## Participate in Orange Button<sup>SM</sup> Working Groups



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Through the newly-launched Orange Button initiative, SGIP and three other organizations are advancing the way the solar industry establishes and manages data. Such an ambitious goal requires a variety of perspectives from different corners of the market to develop strategies and business requirements. Therefore, SGIP is teaming partnering with Solar Energy Industries Association (SEIA) to form five Strategy and Business Requirements Working Groups: Deployment, Financial, Real Estate, Solar O&M, and Grid Integration. >>> [Learn more.](#)

[Sign up for a Working Group today!](#)

## Orange Button<sup>SM</sup> Working Group June Conference Calls

The five Orange Button Working Groups will each have a scheduled conference call prior to the Orange Button July Kickoff and in-person meetings. During these initial meetings the working groups will review Orange Button's structure, goals, timelines, processes, and collaboration tools.

If you have already signed up for an Orange Button Working Group, you should have received a separate email with a calendar invite and call details. If you haven't already registered, but wish to join, sign up for an Orange Button Working Group [here](#).

If you have any questions about the Orange Button June conference calls, please email us at [orangebutton@sgip.org](mailto:orangebutton@sgip.org)

### Initial Orange Button June Conference Call Schedules:

- Solar O&M - Teleconference, Tuesday, June 21st, 1pm-2pm, EST
- Finance- Teleconference, Tuesday June 21st 4pm-5pm, EST
- Deployment - Teleconference, Monday, June 27th, 12pm-1pm EST
- Real Estate - Teleconference, Monday, June 27th, 2pm-3pm EST
- Grid Integration - Teleconference, Monday, June 27th, 4pm-5pm EST

## Save the Dates:

### Orange Button<sup>SM</sup> Kickoff - July 13th Working Group Meetings in San Francisco - July 14th

An Orange Button in-person Kickoff meeting has been scheduled for **July 13th** in San Francisco **from 4pm to 6pm Pacific Time** at the InterContinental Hotel, Level 5 Ballroom C, San Francisco, CA. The kickoff meeting will include an introduction to the Orange Button program leaders, a review of the program deliverables, plan and program timelines, and questions and answers from the team.

On **July 14th**, the five working groups (Financial, Solar O&M, Deployment, Real Estate, and Grid Integration) will convene in San Francisco for individual all day working sessions at Wells Fargo's conference room facilities in downtown San Francisco. Some members of Area B's Technical Working groups will be joining the Area A's Orange Button Requirements Working Groups to have joint meetings for part of the day. The goals of the first in-person Orange Button Working Group meetings include: having various solar industry stakeholders meet, gaining agreement on the work groups' objectives, beginning to document needed requirements, prioritizing the requirements, and setting a plan and timetable for follow-up meetings.

Meeting details and registration are coming soon. If you have any questions about the Orange Button initiative, please email us at [orangebutton@sgip.org](mailto:orangebutton@sgip.org).

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## Participate in SGIP 2016 North American Grid Modernization Test Bed Survey

We're asking you, our members, [to take a look at last year's report](#) and let us know how you think we could improve it, what else you'd like to see in the report, and if you'd like to be involved!

Please let us know:

- Do you have a test bed that we didn't include in last year's report?
- Do you know of a test bed we missed?
- Are there specific areas of research you'd like us to include in the survey?
- Are there questions we didn't ask, but should?

Send your replies to Aaron Smallwood ([asmallwood@sgip.org](mailto:asmallwood@sgip.org)), SGIP's Director of Technical Operations. We'll be launching the next test bed survey this summer. Help us make it a useful tool for you and your fellow SGIP members.



## Upcoming Events

Registration is Now Open!



# GRID MODERNIZATION SUMMIT 2016

"ACCELERATING TRANSFORMATION"

## Register before September 15 to Save!

**What:** 2016 Grid Modernization Summit

**When:** November 7 through Nov 10, 2016

**Where:** The Capital Hilton, Washington, DC

**Who:** Everyone! Both members and non-members can attend.

[Registration is now open](#) for the summit. More information is available at [sgipconference.com](http://sgipconference.com).

Agenda highlights include:

- SGIP Annual Member and Board Meeting - Mon., Nov 7
- Vendor Expo - Tues. and Weds., Nov 8-9 (setup Sun. and Mon., Nov 6-7)
- Executive Forum - Tues. and Weds., Nov 8-9
- Technical Working Group and SGIP Committee Meetings - Weds. and Thurs., Nov 9-10

Important information:

- Learn more about housing and reserve rooms at the hotel [here](#).
- View the [summit agenda](#) and invited speakers.
- If you're interested in exhibitor information, find details [here](#).
- If you're interested in sponsorship information, find details [here](#).

Hotel information:

- Reserve rooms at the Capital Hilton to stay at the center of the action.
- [Click here](#) to reserve the discounted room rate. Per Diem rate rooms are available on a first-come, first-served basis by calling +1-202-393-1000 and referencing the SGIP 2016 Grid Modernization Summit.
- [More housing details](#) are on the conference website.

Contact information:

- For more information on [Vendor Expo opportunities](#) and [sponsorship opportunities](#) contact Steven Desrochers, President & Event Director at [steven@jaguar-expo.com](mailto:steven@jaguar-expo.com).
- For information on the speaker program contact Jon Brock, Program Director at [jon@jaguar-expo.com](mailto:jon@jaguar-expo.com).
- For summit logistics, contact Stephanie Arthur at [stephanie@jaguar-expo.com](mailto:stephanie@jaguar-expo.com).
- Contact Gabrielle Puccio at [gpuccio@sgip.org](mailto:gpuccio@sgip.org) with any additional questions.

Register for Summit

# SGIP-Hosted Events

## Webinar Introducing New IPRM Standard

**Date:** June 23, 2016

**Time:** 1:00 - 2:00 p.m. EST, approx. 1 hour

**Presenters:** Rolf Bienert, Khaled Masri, Cuong Nguyen

We invite everyone to join us for a webinar hosted by the SGIP Smart Grid Testing and Certification Committee (SGTCC) to discuss the new standard, The Smart Grid Interoperability Process Reference Manual, ANSI/NEMA SG-IPRM 1-2015 (IPRM) that was published by the National Electrical Manufacturers Association (NEMA). The standard provides a framework for Smart Grid testing and certification, and codifies the Interoperability Process Reference Manual (IPRM) that was developed and refined over the past six years by the SGTCC.



Reserve Your Seat

## Grid Management Working Group Meeting

Protection Control with High Penetration of DER

**Date:** June 23, 2016

**Time:** 8:30 a.m. to 5:00 p.m.

**Where:** Fairmont Hotel, 170 South Market Street, San Jose, Calif.

This Grid Management Working Group meeting is exclusively for utilities to create sourcing requirements needed in systems as a result of DER.

Join the Meeting

## Utilities-Only Working Group Meetings

**June 23, 2016: San Jose, CA**

Grid Management Meeting focused on Adaptive Protective Functions

**August 25, 2016: Charlotte, NC**

Grid Management Meeting focused on Microgrid Functions/Operations

**>>> [Check out more details about the meetings](#)**

If you are a utility and wish to attend the Grid Management working group meetings, you can now register for each individual meeting on the SGIP website. [Click here to register.](#)

## SGIP Speaking Events

**gtm:**

Energy, Honeywell, Enbala, Itron, and National Grid

**MSGGS**  
muni smart grid summit

**June 21-23, San Jose, CA**  
[Grid Edge World Forum](#)

SGIP Speakers: Members ComEd, Duke, CPS

**June 26-29, Palm Beach Gardens, FL**  
[Municipal Smart Grid Summit](#)

If you are a utility and have already joined this working group, but are not receiving calendar invites, please email Lesley at [lstrand@sgip.org](mailto:lstrand@sgip.org) to request meeting invites.

SGIP Speakers: Robby Simpson, SGIP Board of Directors & GE Systems Architect

**June 28-29, 2016, Philadelphia Navy Yard**  
Fifth U.S. China Climate Change Working Group (CCWG) Smart Grids Workshop

SGIP Speaker: Cuong Nguyen, in a session on Smart Grid Standards Testing and Certification.

[>>> View all SGIP meetings & speaking events](#)

## Recent Webinars

Did you miss one of our recent SGIP webinars? You can find recorded webinars and a list of upcoming webinars by [clicking here](#).



### [Orange Button<sup>SM</sup> Webinar – May 26](#)

As part of the [U.S. Department of Energy SunShot Initiative](#), Orange Button<sup>SM</sup> supports the creation and adoption of industry-led open data standards for rapid and seamless data exchange across the solar value chain from origination to decommissioning. In this webinar, Orange Button leaders provide details about the goals and objectives of the 24 month program.

[Click here](#) to view the recording.  
[Click here](#) to download the PDF.



### [OpenFMB<sup>TM</sup> Next Steps Webinar – June 2](#)

During this webinar, the two OpenFMB<sup>TM</sup> industry co-chairs discuss a short history of the OpenFMB<sup>TM</sup> framework and the recently ratified NAESB standard. Speakers outline next steps for the OpenFMB<sup>TM</sup> PAP team including: next-up use cases, enhancing cybersecurity, and how to participate in OpenFMB<sup>TM</sup>.

[Click here](#) to view the recording.  
[Click here](#) to download the PDF.

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## Architecture Webinar – June 7

More than 150 people watched SGIP and other organizations present in the webinar “Architecting the Modern Grid” on June 7, 2016. Mohammad Rahman, Technical Program Manager at SGIP, shared his slides alongside those from Pacific Northwest National Laboratory (PNNL), Electric Power Research Institute (EPRI), Southern California Edison and GridWise.

The webinar focused on explaining grid architecture and the important role it plays in grid modernization. Topics like emerging trends, the complexity of grid architecture and relevant initiatives from different organizations were discussed.

As the grid becomes more sophisticated, architecture will be an intricate and vital component to developing interoperability. With collaborative events like this webinar, leaders from across the industry can move closer to the answers they need.



[Click here](#) to download the presentation material and recording of the webcast.

## Industry News and Events



### Transactive Energy Community Gathers in Portland

Transactive Energy (TE) took center stage last month as the TE community gathered for NIST's third [Transactive Energy Systems Conference and Workshop](#) in Portland, Oregon. With some 150 attendees from around the world, the participants listened to keynote talks and plenary panels from TE leaders. They also engaged in a series of interactive workshop sessions, providing important feedback and guidance about next steps needed to advance the field.

SGIP member organizations were well represented in the audience, and a number of SGIP leaders, including present and past board members, were among the keynote and panel speakers.

The critical role of modeling and simulation was highlighted throughout the conference. On the final day of the conference, a plenary panel spotlighted the [Transactive Energy Modeling and Simulation Challenge for the Smart Grid \(TE Challenge\)](#), which brings organizations together to create and demonstrate modeling and simulation platforms to address grid problems with TE approaches.

Read more to learn about the TE Challenge, check out corresponding articles, explore the seven teams, watch a related SGIP webinar, and access presentations from the workshop.

>>> [Click here to learn more.](#)

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### NIST/IEEE Workshop Planned for October 2016

The National Institute of Standards and Technology (NIST) will host an NIST/IEEE (Institute of Electrical and Electronics Engineers) Workshop titled "Timing Challenges in the Smart Grid" in Gaithersburg, Maryland on October 26, 2016. The goals of the workshop are to clearly identify and analyze:

- The practical challenges that are currently being experienced in wide-area time synchronization in current measurement and control deployments
- Timing-related barriers that prevent the power industry from realizing future measurement and control technologies

Workshop organizers plan to initiate discussion on potential solutions and evaluate the need for standard and metrology enhancements. NIST will draft a report summarizing the challenges of wide-area clock synchronization and potential solutions following the workshop.

The workshop steering committee has issued a call for abstracts, due July 17. Read more to find out about the five topics and how to submit your abstract today.

>>> [Click here to learn more.](#)

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## Grid Edge World Forum, June 21 - 23, 2016

Take a three-day journey into the next generation of the grid at the Grid Edge World Forum in San Jose, CA, June 21-23. Come support SGIP member companies **ComEd, Duke, CPS Energy, Honeywell, Enbala, Itron, and National Grid** who will speak at the forum.

>>> [Click here to learn more and register for the event.](#)



## Connect with SGIP

### Contribute to SGIP.org

As an SGIP member, it's important that you can navigate the SGIP website with ease and submit valuable content to share with the SGIP community.

Therefore, if you have questions or comments about the website, or if you would like to contribute to it, you can fill out the simple form on the "[Contact Us](#)" page.



Advancing Grid Modernization

### New SGIP Logo

SGIP members can access art files for the new logo in the Kavi collaboration site by [clicking here](#).

If you have questions about using the new SGIP logo, please contact Lesley Strand at [lstrand@sgip.org](mailto:lstrand@sgip.org).

### LinkedIn Update



We encourage our group members to follow our SGIP Company Page to stay up-to-date on the latest SGIP and industry news. If you don't already, [Follow Us](#) today.

[Visit Our Website](#)

Smart Grid Interoperability Panel | 401 Edgewater Place, Suite 600 | Wakefield, MA 01880

STAY CONNECTED

