

<http://sites.ieee.org/sagroups-825/>

**Chair:** Shawn Chandler  
**Vice-Chair:** Don Hammerstrom  
**Secretary:** Annabelle Pratt

**1. Significant Accomplishments:**

- a. Committee formation action items completed from the 2016 PES restructure: benefits include developing the committee for sustainable development of standards through transparency, new technical community building and partnership across regions and nations, and resulting in additional IEEE service to humanity.
  - i. 1500% growth in membership for the committee since official inception
    1. Membership demographics:
      - a. Geography
        - i. USA: 46% vs Abroad: 54%
      - b. Education
        - i. PhD: 80% vs Other: 20%
      - c. Industry & Academics
        - i. Student: 4% vs. Non-Student: 96%
        - ii. Academic: 32% vs Industry: 68%
    - ii. Sponsor Operating Procedures, P&P, and WG Policies and Procedures completed
- b. Committee Task Force launched on State of the Industry for Smart Buildings, Loads and Customer Systems Integration
  - i. A committee taskforce was organized for developing a technical report on the state of the industry regarding methods and treatment of integration of customer systems with utility systems. Benefits include drawing together the technical community with an additional resource for understanding the current topics of interest, industry progress, and valuable integration points that may be leveraged for future standard initiatives.
- c. IEEE – P825: Meshing Smart Grid Interoperability Standards to Enable Transactive Energy Networks. Benefits include developing a new standard for transactive energy, one of the fastest growing areas of interest in the industry, technical community building in this space, and developing new partnerships across regions and nations.
  - i. A PAR for a transactive energy standard guide was developed by the Committee and approved. The PAR was moved forward from the WG for approval from IEEE SA. The PAR was approved in the recent SA approval cycle.

## 2. Benefits to Industry and PES Members from the Committee Work:

Technical material reviewed by SBLC to support industry meetings and conferences, and industry publications, benefitting the technical community through the introduction of technical material to support the evolution and development of in-scope technology, systems and processes.

- a. Committee officers or members reviewed papers, conference sessions, peer-reviewed papers and journal submissions, and GM conference poster sessions (listed in total)
  1. More than 80 papers reviewed for IEEE conferences
  2. 15 reviewed works in IEEE transactions
  3. 6 judged poster submissions at 2016 GM
  4. 4 reviewed works benefitting PSOPE, AMPS and SBLC committees
  5. 10 additional journal papers reviewed (external to IEEE)
  
- b. Committee officers or members engaged in more than 10 speaking opportunities specific to advancing the scope of the committee and improving the technical community:
  - i. 2016 General Meeting – 4 speaking events
  - ii. 2016 SmartGridComm – 1 speaking event
  - iii. 2016 ACEEE Summer Study on Energy Efficiency in Buildings – 1 event
  - iv. 2016 American Control Conference – 1 event
  - v. 2016 Tulane Engineering Forum – 1 event
  - vi. 2016 NIST Transactive Energy challenge – 2 events
  - vii. 2016 Power Systems Computation Conference – 1 event
  - viii. 2016 CSIRO Australia – 1 event
  - ix. 2016 NSF Workshop on CPS Applications for Power Grid – 1 event
  - x. 2016 Institute for Mathematics and its Applications – Energy Markets and Responsive Grids – 1 event
  - xi. 2016 IEEE PMAPS Conference – 2 events

## 3. Benefits to Volunteer Participants from the Committee Work:

Volunteers involved in SBLC committee work have the ability to influence the standards and guides used in the industry in which they work, as well as improve their technical community and partnerships, and advance the state of the industry in regards to in-scope activities.

## 4. Recognition of Outstanding Performance:

Recognition of outstanding performance for Dr. Johanna Mathieu, Committee TCPC and nominated for PES *Outstanding Young Engineer Award*.

**5. Coordination with Other Entities (PES Committees, CIGRE, standards, etc.):**

- a. Members of the committee participated in the work of IEEE standard IEEE2030.9 in 2016 (Recommended Practice for the Planning and Design of the Microgrid)
- b. Members of the committee participated in the work of IEC SEG 6 in 2016 (Non-conventional Distribution Networks / Microgrids)
- c. Members of the committee participated in the work of IEEE 1547 development coordination and training with the Standards Association

**6. New Technologies of Interest to the Committee:**

- a. Facilitation of transactive energy using blockchain technology
- b. Facilitation of distributed energy resource systems using narrowband technology behind the meter

**7. Significant Plans for the Next Period:**

- a. Continuation of effort for IEEE P825 – Meshing Smart Grid Interoperability Standards to Enable Transactive Energy Networks
- b. Continuation of effort for Industry review of smart buildings, loads, customer systems stakeholders, community, and methods and techniques
- c. Expansion of web presence
- d. Expansion of subcommittee activities
- e. Expansion of working group activities with our new SBLC Asia-Pacific Working Group

**8. Global Involvement**

PES is looking to increase involvement with members from Regions 8, 9 and 10 (Africa, Europe, Middle East, Latin America, Asia and Pacific). Please provide the following information

Total Number of committee members (active)	Officers from regions 8,9 and 10	Subcommittee officers from regions 8, 9 and 10	Subcommittee members from regions 8,9, and 10
28	0	2	17

**Submitted by: Shawn Chandler, Committee Chair**

**Date: 1/30/2017**