

## IEEE Power and Energy Society AMPS Annual Report

2019

**Entity:** Committee on Analytic Methods for Power Systems (AMPS)

**Website:** <http://sites.ieee.org/amps/>

**Chair:** Kevin Schneider

**Vice-Chair:** Kwok Cheung

**Secretary:** Stephen S. Miller

**Past Chair:** Alexander W. Schneider, Jr.

**TCPC:** Yanfeng Gong

### 1. Significant Accomplishments:

This committee is composed of six subcommittees:

- Big Data Analytics Subcommittee (BDAS)
- Computing and Analytic Methods Subcommittee (CAMS)
- Distribution System Analysis Subcommittee (DSAS)
- Intelligent Systems Subcommittee (ISS)
- Reliability, Risk and Probability Applications Subcommittee (RRPA)
- Transient Analysis and Simulation Subcommittee (TASS)

The AMPS Committee and its subcommittees met at the IEEE PES General Meeting (GM) in Atlanta, Georgia August 7<sup>th</sup>, 2019, and held an administrative committee phone call December 9<sup>th</sup>. This year was not a normal year for officer rotations, however the TCPC position did rotate.

In 2019 AMPS reviewed over 300 technical papers for the GM and accepted 158, plus 44 transaction papers. AMPS has had the highest or second highest number of papers among technical committees for a number of years, and AMPS has received over 300 papers for the 2020 GM for which reviews are in process. Because of the large number of papers submitted, and the increase in reviewer fatigue, paper review has been delegated to the subcommittees, and the subcommittee vice chair serves as a “vice-TCPC” in assigning papers for review and determining the papers to be accepted. The subcommittees have been encouraged to also engage the subcommittee secretaries in this role, because of the increasing number of submissions and to ensure continuity during officer rotation.

The Technical Council of PES has established paper quotas which impact committees with higher numbers of papers, namely the greater of 40 papers or one half of those reviewed. Each subcommittee has been requested to accept no more than half of the papers sent to them for review, although the committee TCPC retains overall control of the review process.

With few exceptions, accepted papers are presented at the GM in one of three formats: in a poster session; in a paper forum, or at a panel session. At the 2019 GM, the AMPS Committee sponsored 26 panel sessions, a few of which were co-sponsored with other Technical Committees. For the 2020 GM, over 30 panel sessions have been proposed, but it is expected that some will be dropped, and others combined.



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The AMPS Committee is the sponsor of record for three IEEE Standards. A Working Group was formed in 2016 to review IEEE Standard 762, primarily to incorporate performance indices relevant to Variable Energy Resources, also known as renewables. A second Working Group was formed in 2017 to review IEEE Standard 859. This review was completed in 2018 and submitted for ballot. In 2019 there has been extensive discussion about sponsoring an Entity Standard, but lack of clarity in the roles and responsibilities surrounding the Entity process have delayed formal agreement to sponsor. The final decision to sponsor was made, with oversight delegated to the Transient Analysis and Simulation Subcommittee.

Within the AMPS Committee, and the Subcommittee, there are a number of Working Groups and Task Forces. Multiple proposals for new Working Groups and Task Forces were evaluated in 2019, and 4 New Working Groups were formed, and one completed its tasking and was terminated. Additionally, 2 new Task Forces were formed. Current AMPS has a total of 19 Working Groups and 21 Task Forces.

Historically, most members of the AMPS Committee came to membership as ex officio members representing one or another subcommittee within its jurisdiction and have accepted the responsibility of ongoing service after their ex officio terms were completed. There are numerous active committee members that are not able to routinely attend meetings at the PES GM due to supporting AMPS coordinating activities. They are still considered active members because of their ongoing work, despite the conflict caused which prevents them from attending GM meetings.

As with other Technical Committees, the AMPS Committee maintains an Awards Working Group and names a Fellows Coordinator to facilitate recognition of outstanding achievement by those working within the scopes of its constituent subcommittees. In 2019 the AMPS Awards Working Group was reformed with the default chair being the immediate AMPS past chair. However, due to other ongoing AMPS activities the immediate past chair has delegated the WG Chair position to Joydeep Mitra until the next officer rotation.

The Committee has begun to hold semi-annual meetings of Committee officers by Skype. Because of limited support for travel, holding a formal meeting at the Joint Technical Committee Meeting (JTCM) in January was found to be impractical. However, the AMPS Chair and the Secretary attended the meeting in Jacksonville, Fl.

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

The work of the AMPS Committee facilitates publication and presentation of technical work within the scopes of the subcommittees within its jurisdiction, by forming a structure for scheduling paper and panel sessions and reviewing papers. Where a sufficient body of “best practice” exists, the Committee organizes a Working Group to propose a new IEEE Standard or revise an existing Standard.

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

The subcommittees under AMPS provide a network of engineers with common technical interests. Participation in paper reviews exposes members to the latest developments in the area and insight into the requirements for successful publication.

## **4. Recognition of Outstanding Performance:**

