

IEEE Transmission & Distribution Committee

<http://sites.ieee.org/pes-td/>



2019 MEETING MINUTES FOR T&D ADMINISTRATIVE SUBCOMMITTEE

MEETING LOCATION AND TIME

Atlanta, Georgia, USA

Thursday, 2019 August 8, 08:00 to 11:00 AM

Room: 224

INTRODUCTION AND ATTENDANCE

1. Gary Chang, Chair of T&D Committee
2. Surya Santoso, Chair of T&D Administrative Subcommittee, Vice Chair of T&D Committee
3. Dan Sabin, Past Chair of T&D Committee, Vice Chair for Awards and Recognition
4. John McDaniel, Vice Chair of Standards of T&D Committee
5. Eriks Surmanis, Secretary of T&D Committee (by telephone)
6. Julio Romero Agüero, Technical Committee Program Chair
7. Michael Kipness, IEEE-SA Program Manager for the T&D Committee
8. Richard Sévigny, Chair of Capacitor Subcommittee
9. Manuel Avendano-Mora, Chair of Distribution Subcommittee
10. Ed Hunt, Chair ESMOL Subcommittee
11. Brian Johnson, Chair of HVDC & FACTS Subcommittee
12. Rajiv Varma, Vice Chair of HVDC & FACTS Subcommittee
13. Paul Springer, Chair Overhead Lines Subcommittee
14. Kenn Sedziol, Power Quality Subcommittee
15. Shana Pepin, IEEE PES Program Manager
16. Jay Liu, Guest from PJM

All T&D Adcom members were present, so a quorum was established.

REPORT FROM IEEE PES EXECUTIVE COMMITTEE

Shana Pepin, who is IEEE PES Program Manager, provided an overview of work that can be completed by committees of the IEEE PES Technical Council such as the IEEE PES Transmission & Distribution Committee.

- IEEE PES Resource Center: Webinars, Tutorials, Technical Reports, Tools, Interviews, Industry Surveys, Roadmaps, and Vision Documents
- IEEE Standards Store: Standards, Recommended Practices, and Guides.

Shana reminded the T&D Committee that could create a webinar for the Resource Center that summarized work from the T&D Committee.

T&D Committee has three projects that were identified by IEEE SA to be candidates for highlighting via webinars:

- IEEE 1897, IEEE Guide for the Parameter Measurement of AC Transmission Lines
- IEEE P2798, Guide for Helicopter Operation Procedures for the Utility Industry
- IEEE P1882 Draft Guide for Establishing, Benchmarking, and Maintaining a Working Program for Energized Transmission Lines

IEEE PES would like to see operation consistency across committees

The T&D Committee has a new summary here: <https://www.ieee-pes.org/technical-activities/committees>

COORDINATION ACTIVITIES

CIGRÉ AND CIREC

Daniel Sabin is the liaison for the Power Quality Subcommittee. John McDaniel is liaison for the Distribution Subcommittee.

Dan Sabin reported that the 2019 CIREC Conference was held in Madrid, Spain in June 2019. A total of 1519 people attended the conference from more than sixty countries. An additional 594 visited the exhibition only, and 647 people participated as exhibitors. The countries with the most attendees included Germany, Spain, France, the United Kingdom, and the Netherlands.

Six sessions were held including network components, power quality & electromagnetic compatibility, distributed energy resources & efficient utilization of electricity, planning of power distribution systems, and DSO business environment enabling digitalization & energy transition. Executive summaries of each session are posted online: http://www.cired2019.org/page/exec_summary

Conveners have been appointed for the following new working groups:

- WG 2019-2 - Microgrids business models and regulatory issues: Jean Galland, Enedis (France)
- WG 2019-4 - Storage technologies as an opportunity for distribution systems: Omid Palizban, University of Vaasa (Finland)
- WG 2019-5 - Monitoring and control of LV networks: Marie-Cécile Alvarez-Héraul, Grenoble University (France)

A convener is needed for the new CIREC working group 2019-3 Flexibility in active distribution systems.”

For US experts, contact John McDonald at johnd.mcdonald@ge.com if interested in being appointed to one of these working groups.

CIREC will host a workshop in Berlin in June 2020 on how to implement flexibility in the distribution system. See <http://www.cired2020berlin.org/>.

The CIREC 2021 conference and exhibition will be held in Geneva. See <http://www.cired2021.org/>.

PREVIOUS MEETING MINUTES

The minutes to the previous meeting were reviewed and approved.

PREVIOUS ACTION ITEMS

Open Action Item from Last Meeting: Julio is to identify the person from the Distribution Subcommittee who would provide the liaison report to the PQ Subcommittee: Likely vice chair of DRI WG, make sure he/she can attend JCTM 2019. (Incomplete)

REVIEW OF E-BALLOTS

This review was not completed during the meeting.

CHAIR'S REPORT

Gary Chang attended the IEEE PES Technical Council meeting on Aug. 7. Below is the highlight:

The IEEE PES T&D Committee should submit its annual report to the IEEE PES Technical Council by the end of the year.

The IEEE T&D Committee needs to collect the membership info of each WG/TF under your subcommittee for the future 123signup of T&D Committee.

The topics for the 2020 IEEE PES General Meeting are confirmed and will be posted on the call-for-papers soon.

Saifur Rahman, IEEE PES President, reported that PES membership dropped in all regions except Region 10. Fellow numbers from PES are decreasing. Saifur urged to boost the number of Fellows for PES every year.

Gary encouraged the T&D Committee members present to nominate deserving Senior Members to be Fellow. A PES Resource Committee was formed, and Q&A can be found on website.

Saifur announced a plan to create PES councils state by state and country by country to get more global coordination.

H. Sun presented the proposal for New Technical Committee on Energy Internet. Technical Council members suggest beginning with a provisionary coordination committee. The PES Tech Council decided it was too broad and will review a revised version at the PES Tech Council retreat in Las Vegas. Each technical committee will check the scope overlaps.

Gary Hoffman reports that SA will form a task force for reviewing new entity PAR proposals and distribute the PARs to appropriate committees for review. Gary Hofmann is creating a new working group to manage PARs for new IEEE Entity standards.

50% of IEEE standards are from PES.

Two presentations we presented from China Chapters on Transformers and PSIM Committee work.

Mladen Kezunović reported rules changes for Fellow elevation. A PES Fellows Committee has formed a steering committee to help applicants.

PES currently has 20 entity PARs under development. 10 of them are sponsored by T&D.

Reminder: All working group chairs of the IEEE PES Transmission & Distribution Committee need to be IEEE-SA members.

OFFICER REPORTS

REPORT FROM VICE CHAIR

No report.

REPORT FROM TECHNICAL COMMITTEE PROGRAM CHAIR

The Technical Committee Program Chair (TCPC) for the T&D Committee, Julio Romero Agüero, presented the following conference statistics for the 2019 IEEE PES General Meeting:

- Number of Attendees: 3219
- Number of Panel Sessions: 147
- Number of Paper Forums: 9
- Number of Best Paper Sessions: 4 (65 papers in the 4 sessions)
- Number of Transactions Paper Sessions: 26
- Number of Conference papers presented: 653
- Number of Transactions papers presented: 170
- Number of Committee Meetings: 341

The IEEE PES T&D Committee received 66 papers for consideration for the 2019 IEEE PES GM. Of these, 36 papers were accepted, including 9 transaction papers and 27 conference papers. 30 conference papers were rejected.

Thirteen panel sessions were sponsored by T&D Committee.

FUTURE MEETING DEADLINES

- 2020 IEEE PES T&D Conference and Exposition: August 15
 - Papers <http://submissions2.mirasmart.com/TD2020/login.aspx>
 - Panels <https://www.ieeet-d.org/IEEE20/CUSTOM/PanelApplication.pdf>
- 2020 IEEE PES ISGT (papers and panels): August 31
 - Papers <http://submissions2.mirasmart.com/ISGT2020/login.aspx>
 - Panels <https://ieeet-isgt.org/panels/>
- 2020 IEEE PES GM: November 7
 - Papers <http://www.pes-gm.org/2020/call-for-papers>
 - Panels (deadline to be provided by Julio in a separate email)
 - Panel session hours allocated to T&D Committee in 2019: 36 hrs. (we have requested to be allocated at least the same number of hours in 2020)
 - Maximum number of 4 hr. panel sessions allocated to T&D Committee in 2019: nine

The deadline for all tutorials for all conferences is **August 31**. The submission website is <https://www.ieee-pes.org/ieee-pes-2020-call-for-tutorials>.

Meeting Conflicts

Kenn Sedziol of the IEEE PES Power Quality Subcommittee reported that three working group meetings needed to be cancelled because they overlapped with panel sessions.

Action Item: TCPC will distribute the panel session schedule as soon as possible during Winter 2020.

Action Item: Each subcommittee chair will crosscheck the panel session schedule with their working group and subcommittee meeting schedule, looking for overlaps, and will request rescheduling to the TCPC if conflicts are found.

REPORT FROM PAST CHAIR

Dan Sabin reported on IEEE PES Technical Council awards and the status of the IEEE T&D Committee P&P:

IEEE PES TECHNICAL COUNCIL AWARDS

The IEEE PES Technical Council provided **Roger Ray** with the Technical Council Distinguished Service for his dedication and leadership in the field of Power Line Carrier.

The IEEE PES Technical Council provided **James Formea** with the Technical Council Young Professionals Award for demonstrating outstanding technical expertise in cyber security and SCADA technology and providing leadership in standards development

The **IEEE PES Switchgear Committee** was awarded IEEE PES Committee of the year from the IEEE PES Technical Council.

STATUS OF IEEE T&D COMMITTEE P&P

The committee is actively working on new a new P&P for the committee, which will be reviewed by AudCom in September.

Action Item for Gary Chang: The T&D Committee needs to write new P&P for working groups within six months of finishing the P&P for the working groups.

REPORT FROM VICE CHAIR, STANDARDS

John McDaniel reported that IEEE PES has 42% of all IEEE Standards. Of these, 10% are within the T&D Committee (we are third behind Transformers and Switchgear). For active PAR's, T&D has 13% of PES (which ranks second).

As for Entity projects, about 15% of all IEEE standards are Entity projects. Within PES, 5% of the projects are entity projects, of which 10 of the 20 Entity PAR's are within T&D (the next highest committees only had 2).

One thing that was mentioned to improve coordination with the Entity PAR's was to require them to provide a written report. This would be in thru the WG P&P. Also, in the P&P, require them to meet at least once a year with the T&D Committee.

Going forward, all Entity ballots (standards) will require subcommittee/committee approval to go to ballot. This is to ensure that the Entity standards are considering feedback from the sponsoring committee. There is also an unused clause in the SA manual that would require an Entity project to be also balloted as an individual ballot (but the SA system is not yet setup for this).

AWARDS

PES LEVEL AWARDS

The 2019 PES Award for Excellence in Power Distribution Engineering was given to **Charles DeNardo** for leadership in IEEE Guide to Understanding, Diagnosing, and Mitigating Stray and Contact Voltage, IEEE Std 1695-2016.

The 2019 IEEE PES Douglas M. Staszkesy Distribution Automation Award was given to **Kevin Paul Schneider** for contributions in reactive power control and conservation voltage reduction.

The 2019 IEEE PES Nari Hingorani Custom Power Award was given to **Arindam Ghosh** for designing and integrating innovative custom power devices in power distribution systems.

The 2019 IEEE PES Uno Lamm High Voltage Direct Current Award was given to **Abhay Kumar Jain** for contributions on the development and application of 800 kV Ultra High Voltage Direct Current technology.

There was no winner of the 2019 IEEE PES Nari Hingorani FACTS Award.

NEWLY ELEVATED FELLOWS

Claudio R. Fuerte-Esquivel was elevated to IEEE Fellow for contributions to modeling, analysis and operation of Flexible Alternating Current Transmission Systems

SUBCOMMITTEE REPORTS

CAPACITOR SUBCOMMITTEE

Richard Sévigny provided the following report:

The capacitor Subcommittee had six working group and task force meetings in Atlanta:

- Series Capacitor WG
- Capacitor GMD Mitigation TF
- Shunt Capacitor WG
- Shunt Capacitor application guide 1036 WG
- Guide for the application specification for Harmonic Filter
- Low Voltage Shunt Capacitor Application TF

The task force on Capacitor Discharge Limitation Application Paper did not meet because of illness of the chair.

The Capacitor Subcommittee did not hold any panel sessions but is going forward to organize a session for the 2020 IEEE PES General Meeting.

No subcommittee officer rotation is scheduled for this year, but Joe Meisner is stepping down from the IEEE 1036 WG. William Munn will take over at the 2020 IEEE JTCM.

Regarding documents, IEEE P1036 Shunt Capacitor Application Guide has been reviewing comments from the ballot. The Guide for the application specification for Harmonic Filters has been reviewing comments from ballot.

The series capacitor group is about to start balloting. This group is also requesting to form a joint committee group with the substation group to work on the TCSC standard.

HVDC & FACTS SUBCOMMITTEE

Brian Johnson provided the following report:

1. Subcommittee has 7 working groups, 5 met at the meeting.
2. Standards
 - a. P2745.1 passed ballot
 - b. P2745.2 and P2745.3 in revision following ballot

- c. HVDC standards proposals circulated earlier were incomplete—what was outcome?
 - i. We do have some comments about scope of two of these and would like to discuss with proposers and IEEE-SA
 - d. Discussed proposal for P2745.4 → status of co-sponsors
 - e. SSSC standard proposer status?
 - 3. Scheduled 4 panels, good attendance, two were more than standing room only due to small rooms
 - a. Some scheduling challenges with scheduling of panels compared to requested times so ended up doing some switching times between our panels, moved 2 working group meetings, canceled 2 working group meetings
 - 4. Sponsored one tutorial
 - 5. Put together special issue of Power and Energy Magazine related to HVDC
 - a. Hopefully have some webinars
 - 6. Moved web site: <http://sites.ieee.org/pes-hvdcfacts/>
 - 7. Continuing to coordinate with CIGRE B4 and PES Substations Subcommittee IO
 - 8. Will discontinue one working, HVDC & FACTS Bibliography
 - 9. Next year: probably one or two tutorial proposals
 - a. One group planning to meet at JCTM
 - i. Two others planning to meet in Europe in Jan/Feb
 - ii. One in China December
 - b. Will probably have a panel at T&D
 - c. Probably 4 panels at PESGM

DISTRIBUTION SUBCOMMITTEE

Manuel Avendano-Mora reported that the following working groups met in Atlanta:

- Distribution Reliability
 - TF on Data Analysis and Benchmarking
 - TF on Reliability Reporting
 - TF on Reliability Indices
 - TF on Resiliency. This task force will convert to a working group.
- Switching and Overcurrent Protection
- Smart Distribution
 - TF on Volt/Var Control and Optimization. This task force will convert to a working group. This task force expressed concerns regarding potential overlap and duplicative efforts with the PSOPE Committee's Task Force on Voltage Control for Smart Grids and the Task Force on Distribution Management System. The subcommittee proposes to escalate this concern to the T&D Committee. **Action Item: Manuel Avendaño-Mora to follow up with Gary Chang.**
- Distribution Resources Integration
 - TF on Energy Storage
 - TF on Microgrids
 - TF on DER Interconnection
- Stray and Contact Voltage Working Group

The subcommittee organized the following panel session at the 2019 IEEE PES General Meeting:

- Panel: Enhanced IEEE 1782 Outage Subcategories for Reliability Benchmarking and Reporting
- Panel: Automation of a distribution line device: What, Why, How, When, and Where
- Tutorial: 21st Century Distribution Management and Operation: The Future is Now!
- Panel: Vision for Next Generation Distribution Automation

The following list presents the status of subcommittee projects:

- P1806 - Guide for Reliability Based Placement of Overhead and Underground Switching and Overcurrent Protection Equipment Up to and Including 38 kV
- P1885 - Guide for Assessing, Measuring and Verifying Volt-Var Control Optimization on Distribution Systems (PAR extension)

The subcommittee would like to organize the following panel session at the 2020 IEEE PES General Meeting:

- Distribution Reliability and Switching & Overcurrent Protection WGs joint panel
- Advanced DMS Applications
- Volt/Var Declining Benefits
- T&D Distribution Subcommittee, PSOPE Distribution System Operation and Planning Subcommittee, and AMPS Distribution System Analysis Subcommittee Joint Panel or Super Session

The subcommittee would like to organize the following panel session at the 2020 IEEE Transmission & Distribution Conference & Exposition:

- T&D Distribution Subcommittee, PSOPE Distribution System Operation and Planning Subcommittee, and AMPS Distribution System Analysis Subcommittee Joint Panel

ESMOL SUBCOMMITTEE

Ed Hunt reported that ESMOL had a small attendance for the Atlanta meeting for several reasons. Some family health issues kept some key WG chairmen home and some utility members were not able to attend due to the ESMO conference being held so close to this meeting and funding issues.

ESMOL had twelve working group meetings scheduled, but five working group chairs could not attend. So, there was limited participation at these meetings.

ESMOL has three PARs expiring in December 2019: P1071, P1882, and P516. All chairs have been informed to extend their PARs. P1071 and P1882 are at comment resolution and P516 is at the start of the balloting process.

OVERHEAD LINES SUBCOMMITTEE

Paul Springer reported that the Overhead Lines Subcommittee is requesting that the IEEE PES T&D Committee file an appeal to the Standards Board in accordance with their appeal process. The appeal would request that the T&D Committee withdraw IEEE P1863 or at least put it on hold while a serious IEEE Governance issue is resolved.

Specifically, Overhead Lines Committee would like IEEE-SA to address the power balance between the Professional Societies and the Corporate Advisory Group (CAG). Overhead Lines Subcommittee feels that IEEE CAG should promote the interests of its corporate members, but the IEEE is and should remain an engineering organization, where principled professional opinion is not dismissed absent a formal process.

Action Item: Paul will send an email is background material related to IEEE P1863.

Action Item: The T&D Administrative Subcommittee will conduct an e-ballot related to the appeal to IEEE-SA during the week of 2019 August 15.

POWER QUALITY SUBCOMMITTEE

Kenn Sedziol provided the following report:

- IEEE Std 1159-2019 was published on August 13, 2019. See <https://standards.ieee.org/content/ieee-standards/en/standard/1159-2019.html>
- IEEE Std 1159.3-2019 was published on May 1, 2019. See https://standards.ieee.org/standard/1159_3-2019.html.
- The subcommittee organized three panel sessions for the 2019 IEEE PES General Meeting.
- The subcommittee held eleven working group and task force meetings.
- The subcommittee cancelled three working group meetings due to conflicts with panel sessions.
- The subcommittee proposes to host five panel sessions proposed for the 2020 IEEE PES General Meeting.
- The technical report on Power Quality Data Analytics was approved by its working group and by the PQ Subcommittee. **Action Item: Kenn Sedziol to submit the technical report to Gary Chang.**
- A decision on the revision of IEEE P1409 will be made at the 2020 IEEE PES JTCM.
- A new working group on Voltage Unbalance was formed.

The T&D Administrative Subcommittee voted to approve the appointment of Matt Norwalk as the chair of the IEEE PES Power Quality Subcommittee, effective 2020 January 1.

WORKING GROUP ON LIGHTNING PERFORMANCE OF OVERHEAD LINES

The Lightning Performance of Overhead Lines WG met Tuesday morning. There was a presentation: “Lightning Performance of Distribution Line under a Transmission Line” by Professor Alberto Borghetti. After the presentation, the working group discussed the two standards (1243 and 1410). Std 1243 is under revision and the WG will ask for a PAR Revision as the PAR expires at the end of the year. A PAR request for the revision of 1410 will be submitted soon.

REPORT FROM INTELLIGENT GRID AND EMERGING TECHNOLOGIES COORDINATING COMMITTEE

No Report.

WEB CONFERENCING

Mike Kipness reminded the Adcom members present that IEEE offers Join.Me features for web meetings.

<https://ieee-sa.imeetcentral.com/joinme/doc/WzIsMzEzNzgMTNd/>

Join Me Pro is a premium web meeting and conference call service being offered to IEEE-SA standards development groups at no cost.

INTRODUCTION TO IEEE PES PRESIDENT-ELECT CANDIDATES

The two candidates for IEEE PES President-Elect made presentations to the Administrative Subcommittee. This included **Jessica Bian**, who is the current IEEE PES Secretary, and **Christopher Root**, who is the previous IEEE PES Secretary and Treasurer.

Voting must be completed no later than 2019 October 1. Any returns received after this date will not be counted. The online voting website is at <https://eballot4.votenet.com/IEEE>.

PAR APPROVALS

The following PARs were approved by the subcommittee

- P691 Revision
- P1410 Revision
- P135.9 Revision
- New project P2745.4 on UFPC approved
- P2844: Recommended Practice on Unbalance (From PQ Subcommittee)
- Trial-Use Metallic Balloons (From Distribution Subcommittee) (No project number yet – entered next week)

PROPOSAL FOR AN IEEE PES TRANSMISSION SUBCOMMITTEE

Babak Enayati discussed the reasons for creation of a Transmission Subcommittee within the IEEE PES Transmission & Distribution Committee. It would parallel the Distribution Subcommittee and would be complementary to other subcommittees focusing on specific topics (i.e., power capacitors, power quality, overhead lines, design issues, safety issues, HVDC, and FACTS.)

Action Item: Babak Enayati to create a proposal PowerPoint that can be distributed to Adcom.

COMMITTEE AND SUBCOMMITTEE WEBSITE STATUS

<http://sites.ieee.org/pes-td/>

Maintained by Dan Sabin (d.sabin@ieee.org)

ADMINISTRATIVE SUBCOMMITTEE

<http://sites.ieee.org/pes-td/adcom/>

Chair: Surya Santoso

Maintained by Dan Sabin (d.sabin@ieee.org)

CAPACITOR SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/cap/>

Chair: Richard Sévigny

Maintained by Tom Grebe (tgrebe@ieee.org)

DC & FACTS SUBCOMMITTEE

<http://www.ece.uidaho.edu/hvdcfacts/>

Chair: Brian Johnson

Maintained by Brian Johnson (b.k.johnson@ieee.org)

DISTRIBUTION SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/dist/>

Chair: Manuel Avendano-Mora

Maintained by Dan Sabin (d.sabin@ieee.org)

ESMOL SUBCOMMITTEE

<http://ieee-sa.centraldesktop.com/esmolpublic/>

Chair: Ed Hunt

Maintained by Eriks Surmanis (e.surmanis@pdc-cables.com)

POWER QUALITY SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/pq/>

Chair: Ken Sedziol

Maintained by Dan Sabin (d.sabin@ieee.org)

OVERHEAD LINES SUBCOMMITTEE

<https://ieee-sa.centraldesktop.com/overheadlineswg/>

Chair: Paul Springer

Maintained by ?

FUTURE MEETINGS

The next meetings for the subcommittees, working groups, and task forces of the IEEE T&D Committee are summarized in the following table:

Dates	Meeting	Location
2019 Sep.29 – Oct. 2	ISGT Europe	Bucharest, Romania
2020 Jan. 12 - 16	Joint Technical Committee Meetings	Jacksonville, Florida, USA
2020 Feb. 17 – 20	ISGT 2020	Washington, DC, USA
2020 Mar. 22 – 25	19 th ICHQP	Dubai, UAE
2020 Apr. 20 – 25	T&D Conf. & Expo	Chicago, Illinois, USA
2020 Aug. 2 - 6	PES General Meeting	Montréal, Québec, Canada

Adjourn

The meeting is adjourned at 11:25 AM.