



Transmission and Substation Subcommittee Updates

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Secretary, TSS Subcommittee

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Planning Committee

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- TSS is a technical advisory subcommittee under PC
<https://www.pjm.com/-/media/committees-groups/subcommittees/tss/tss-charter.ashx?la=en>
 - TSS Chair: Mr. Shashi Patel, PSE&G
 - Secretary: Jay Liu, PJM
- Maintain technical guidelines for transmission facilities
 - Investigate new technologies and develop associated design guidelines
 - Track best practices of the industry
- Monthly meetings

- TSS Special Session on Section VI.a ***Bare Overhead Transmission Conductor Ratings*** started in March 2022
 - Revise the existing TSS Guide
 - Revise and update the OHL Conductor Rating Calculation Tool
- TSS survey on applicable wind speed design criteria for Transmission and Substation facilities
- Dynamic Line Rating technologies applications and associated O&M issues
- New materials and technologies
- Participations at industry technical forums

- TSS will investigate technology evolutions and develop/update the following TSS Guideline Sections:
 - New transmission line and substation materials and designs
 - FACTS and HVDC facilities
 - Design and Maintenance Guidelines on GIS and GIL Facilities
 - Transmission facility design challenges associated with large scale renewable integration
 - Resilience related design issues:
 - Winterization of substations and transmission lines
 - GMD/EMP
 - Spare equipment philosophy
 - System hardening design and O&M methods, etc.

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Transmission and Substation Subcommittee Update



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