

Transmission & Distribution Conference

Technology Innovation for Operations and Maintenance Activities

Overview

This conference will explore the best available information about the impact of innovative technologies on the operation and maintenance of utility transmission and distribution assets. The emergence of interconnected information and control systems demands new technologies for integrated system monitoring and testing. The focus will be on the application of these technologies, particularly to overhead line maintenance and operations. The discussion will range from state of the art research to firsthand accounts of the benefits of using these new technologies in the utility setting.

Themes:

1. Condition Assessment
2. New Inspection & Maintenance Techniques
3. Information Management
4. Maintenance Prioritization
5. Reliability and Resiliency of T&D Assets

Areas of interest for transmission systems include:

- Introduction of new devices to increase network services and utilization, as well as to validate highly distributed renewable generation integrated systems at different scales
- Digital simulation of physical assets to support engineering and operational systems
- Tools and data to enable informed decision-making and reduce risks on key issues that influence the future of the electric power sector
- Integrated information sources to reduce data related costs while improving consistency, reliability, and safety, as well as enabling regulators to understand the implications of requirements for renewable resources installed behind the meter
- Standards and protocols for interoperability and testing underpinning network modernization activities

Areas of interest for distribution systems include:

- High efficiency energy storage devices to improve the stability and reliability of distribution grids on very long rural feeders or feeders with high DER penetration
- The role of AI in continuous condition assessment of infrastructure assets – machine reading of smart metering data or machine reading of satellite imagery to trigger condition-based maintenance
- Role of solid-state electronics for grid volt-VAR optimization
- Self-configuring distribution grids based on fault location information, connectivity, and switch status remote control
- Development status of smart solid-state transformers and circuit breakers for use on distribution systems

Who Should Attend?

- Transmission and Distribution Managers and Supervisors
- Transmission and Distribution Engineers and Engineering Supervisors
- Consultants, Service Providers, and Contractors
- Consultants and Contractors from Other Industries with Examples of and Experience with the Application of These Themes
- Equipment Manufacturers and Vendors
- Research Facilities and Laboratory Personnel
- Academics

This conference is created in collaboration with our utility members:



To register and for more information, visit td2021-transmission-and-distribution-conference