

# Overhead Transmission Conference

## Climate Change Impact and Resiliency of the Transmission Line Grid

### Overview

Overhead lines are vulnerable because they transmit energy over long distances and are exposed to a wide range of weather conditions. Because the lines traverse a variety of terrains, determining design meteorological loads with appropriate return period values can be challenging due to a lack of long term climatological data at different locations. One major takeaway from the Intergovernmental Panel on Climate Change (IPCC) in 2001 was that the impact of climate change will cause more frequent extreme weather events with higher intensities. In the long term, this will add significant variability to climate data such as temperature, wind speed, precipitation etc., introducing more uncertainty not only in magnitude and frequency of climatological load data, but also in the increased load demand. This poses significant challenges for safe, reliable operation and maintenance of line assets, increasing the vulnerability of grid networks across the globe and introducing significant risks. The consequences of this exposure have led to many major blackouts in recent years, with long outages taking power from residential, industrial, and commercial customers. Resiliency, in its simplest form, is defined as the ability to reduce the magnitude and/or duration of disruptive events, particularly those with very low probability and high consequences.

The primary objective of this conference is to provide utility managers/engineers with the most current information on the impact of climate change and an understanding of grid resiliency issues and challenges utilities around the globe are facing. The conference will increase the exposure of knowledge to engineers newly joining the workforce, enabling them to mitigate these challenges. It will also provide a forum to exchange information on technological advancements and new initiatives that CEATI has undertaken regarding these subject areas. The key experts will deliver topic-specific presentations, followed by breakout sessions, to discuss the issues in detail. Each presentation will identify problems, gaps, research needs, opportunities, descriptions of important projects and ongoing work, prioritization of important of issues, and identification of barriers to progress.

### Themes

1. Climate Change
  - Impact on Asset Maintenance
  - Impact on Line Design
  - Impact on System Planning
2. Resiliency
  - Impact on Line Design
  - Impact on Asset Maintenance
  - Impact on Planning and Restoration (Recovery)

### Who Should Attend?

- Electrical utilities
- Transmission managers and supervisors
- Transmission engineers and engineering supervisors
- Consultants, service providers, and contractors
- Equipment vendors
- Researchers and laboratory personnel
- Academics

This conference is created in collaboration with our utility members:



# Vegetation Management Conference

November 17-18, 2020 • San Diego, CA

## Overview

Power utilities and their customers are consistently asking far more from transmission and distribution vegetation management programs than in the past. In an effort to promote customer service through safety and reliability, liabilities such as fire risk which were in essence less of a factor in the past are now at the front and center of most vegetation management discussions. Effective communication to stakeholders remains essential to support a more aggressive project work approach to remove tree threats such as; eliminating “edge creep,” initiating new standards for wider rights-of-way (ROWs), and implementing preventative tactics for on and off ROW threats. Diversified use of the ROW often yields a struggle to find balance between the public good and community (or personal) goals for the use of the land.

Reciprocal program goals for a balanced approach are a valid concern for vegetation management program managers. Additional to program implementation is the critical aspect of managing a multitude of customer concerns for trees growing in proximity to power lines. A great deal of work order software has been developed in accordance with internal utility-specific processes. However, managing each individual concern remains a troubling domain for efficient use of funds and management of customer expectations.

A common vision or strategy with long-term objectives remains an important first step in ensuring an alliance between utility management, vegetation management program teams, and the public at large. Agreement of shared outcomes is critical for budgeting, contractor suitability, stability, and customer service. The perspective that all ROWs should be managed for environmental integrity in addition to safety and reliability is becoming more common. This ideology has led to positive outcomes and opportunities for preventative condition-based management, optimized spending, and environmental sustainability, which, to a certain extent, were not envisioned under historical planning regimes.

A great deal of data is critical to support a utility’s vision. Investigation will continue into current technologies for data gathering, ascertaining how data can be leveraged, and perhaps more importantly, how it can be transferred between the owner and third parties for work management. Data gathering is the critical first step, and undertaking it efficiently is essential. The second natural step is collecting pertinent information and sharing it digitally, and many paperless applications are being developed to ensure its effective use, often resulting in ‘real-time’ reporting and environmental stewardship.

## Themes

1. Program Management – Strategic vs. Operational Planning
2. Technology – Data Collection and Prioritization
3. Public and Social Opportunities – Customer Work Orders/Workflows
4. Public and Social Opportunities – Sharing Common Ground
5. Public and Social Opportunities – ROW as a Sustainable Asset

## Who Should Attend?

- Electrical utilities
- Consultants
- Equipment vendors
- Researchers and laboratory personnel
- Academics

This event was created in collaboration with our utility members:

# HV Cables Conference

## Installing, Managing, and Maintaining Transmission Underground Cable Systems

### Overview

Continuing to build on the success of past cable workshops and inspired by the best practices outlined in the recently published Underground Cable Reference Manual, presentations share emerging issues on a broad range of topics, focusing on maintenance, installation, and inspection of transmission underground cables and their accessories. The outcome will benefit the management of these costly assets in order to maximize service life and minimize life cycle costs.

Recognizing that experience, knowledge, and collaboration are crucial when managing high-voltage underground systems, this conference aims to bring in multiple perspectives from across the industry. Presentations will draw from the expertise and experience of electric utilities, cable and accessory installers, testing service providers, underground cable/pipeline corrosion experts, and thought leaders in the field of engineering work practices. Supported by CEATI's Transmission Underground Cables Interest Group (TUCIG), the event will address and explore the latest developments in tools and techniques to improve the maintenance operation and management of transmission underground cable systems.

This conference will also provide information on transmission cable diagnostic tests and condition assessment techniques, covering HPFF, SCFF, and XLPE cable systems. Attendees will be exposed to the applications of proactive testing and condition monitoring for cables and accessories. The conference will cover both established and new diagnostic techniques commercially available for understanding the condition of cable systems. Presentations will draw from the expertise and experience of electric utilities, cable manufacturers, and equipment testing vendors.

### Themes

1. Maintenance Techniques and Procedures Used for XLPE, HPFF, and LPFF Cables
2. Installation Techniques for Underground Cables and Retrofits
3. Inspection Methods, Diagnostic Techniques and Asset Management Strategies

### Who Should Attend?

- Utility cable engineers
- Cable crews
- R&D portfolio managers and supervisors
- Asset managers
- Consultants, service providers, and contractors
- Equipment manufacturers and vendors

This event was created in collaboration with our utility members:



# Co-Located Conferences

## November 17-18, 2020 • San Diego, CA

# Registration Form

## Early Bird Rate

### Your Information

Name

Organization

Job Title

Street Address

City, Province, State

Country

Postal/Zip Code

E-mail

Phone

Fax

### Payment Information

Visa   Mastercard 

Card No.

Expiry Date  /

Signature

Cardholder

#### Town and Country Resort Hotel

500 Hotel Circle North  
San Diego, CA  
92108 USA  
+1 619-291-7131



### Registration Fees

Register by June 30<sup>th</sup>, 2020 and save up to \$100!

#### Choose your track:

- Transmission  Vegetation Management  Cables
- ~~\$1,295~~ \$1,195 USD Standard Pass
- ~~\$995~~ \$895 USD Utility Pass
- \$755 USD CEATI Participant Pass
- \$755 USD Speakers

\*GLP, SG, SEP, PCP, and IPSIG participating organizations may be eligible for a complimentary registration - contact your Program Coordinator for more information. Academics should contact CEATI directly about discounted pricing.

### Exhibition Fees

- ~~\$4,495~~ \$4,400 USD Sponsorship Booth (2 passes)
- ~~\$3,495~~ \$3,400 USD Standard Booth (2 passes)
- ~~\$1,600~~ \$1,500 USD Conference Sponsor
- \$755 USD Additional Exhibitor Passes

Quantity: \_\_\_\_\_

Top 3 booth choices: \_\_\_\_\_

**For Exhibitors:** All cancellations received 60 days prior to the event will be subject to a processing fee of 25% of the total amount. There will be no refunds granted after this date. Delegate substitution is permitted at no extra cost.

### Important Information

Registration fees include proceedings package, breakfast, breaks, lunches and reception where indicated on the schedule.

- Please check if you wish to be contacted about allergies or other dietary requirements.

Prices are in USD. Charges will appear as 'CEATI International Inc' and are subject to applicable taxes and fees. All cancellations received at least 60 days prior to event will be subject to a \$200 processing fee. There will be no refunds granted after this date. Delegate substitution is permitted at no extra cost. Please note that all names registering for the event will be added to CEATI's mailing list. If you do not wish to be included in this electronic outreach, please click on the 'unsubscribe' button in the email to remove yourself. In the spirit of industry networking, your name, title, employer and email may be shared with other conference participants. If you do not wish to have this info shared, please contact us at [events@ceati.com](mailto:events@ceati.com). By attending, you acknowledge that there may be photographs or videos taken of you during this event, and you consent to the use of these photographs or videos in future CEATI communications.

All conference guests are eligible for a preferred rate of \$173 USD a night subject to availability. To receive this rate, please mention the group name CEATI International for the 2020 Conferences. The preferred rate is only available until September 25<sup>th</sup>, 2020.

Register online [here](#).

Completed registration forms can be sent by email to [events@ceati.com](mailto:events@ceati.com) or by fax to (514) 904-5038.