

## SUBSTATION BEST PRACTICES CONSORTIUM ANNUAL COLLABORATIVE CONFERENCE 2022

### Event Overview

UMS Substation Best Practices Collaborative's 2022 Annual Conference will focus on utility best practices, tools, and technologies to improve reliability, performance, and carbon footprint. This conference will provide attendees with a better understanding of advanced condition monitoring, FERC Order No. 2222, Operational Analytics and much more. As in previous years, the conference will be the Capstone for the program, with participants sharing best practices, networking with their peers, and gaining insights into emergent technologies, tools, and strategies.

**“WE ATTENDED ONE OF UMS GROUP’S FIRST SUBSTATION BEST PRACTICES CONFERENCES. FOR THE TWO OF US, THIS WAS ONE OF THE BEST CONFERENCES WE HAVE ATTENDED IN OUR COMBINED 70 YEARS OF ATTENDING EVENTS. WE WERE VERY IMPRESSED WITH THE OVERALL CONTENT AND OPEN SHARING OF INFORMATION.”**

**– Substation Director at a Large Midwest Utility**

### Who Should Attend?

- Directors and Managers (Transmission & Substation)
- Directors and Managers (Utility Technology)
- Directors and Managers (Asset Management)

### Connect with us!

Discover substation best practices & innovations.



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### Why Participate?

- Showcase Your Best Practices
- Learn From Other Utilities
- Gain Access to Credible Experts
- Cultivate Relationships
- Strengthen Access to Thought Leaders



**Register [here.](#)**

# PRESENTATION TOPICS

## Asset and Risk Management

- Emergent technologies and use cases
- Relative ranking of use cases
- Detailed usage by sub-process
- Technology solution enablers, decision support, and solution leaders

## Impact of Distributed Energy Resources on Substations

- FERC Order No. 2222: Driving Expansion of Distributed Energy Resources
- Impact of DER's on system planning, relay protection, and asset management
- Grid support energy storage assets and their impacts on substations
- DER-compatible substation designs
- Explosion of EV demand vs. local substation capacity
- Substation readiness for reverse power flows from distributed solar

## Data Analytics

- Operational Analytics - Dashboards for reliability, risk, cost, standards, advanced operational analytics etc.
- Coordination with UMS Group Asset Analytics Forum - Pooling data across peers (not competitors) in an anonymized and a secure manner to:
  - Create asset make and model performance / failure benchmarks through machine learning based algorithms
  - Improve awareness of vendor performance and reliability
  - Improve analytical capabilities and data utilization by automating high volume / high frequency activities such as data cleansing
  - Develop a standard cross-industry failure taxonomy

## Condition Monitoring

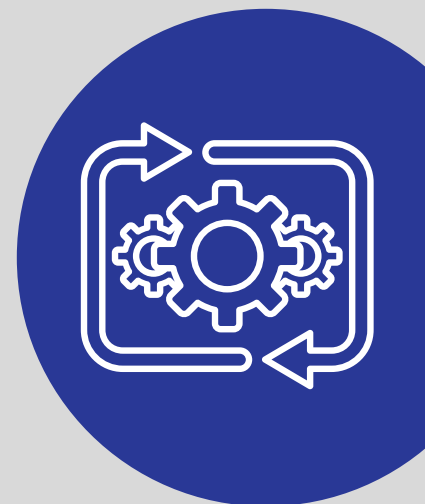
- Communications solutions and capacity to meet demands of escalating data volume from equipment monitoring
- Emerging solutions and new sensor technology
- Data structuring and analysis
- Substation robotics (e.g. Boston Dynamics)

## Work & Workforce Management (2022-2023)

- Managing capital work efficiently
- Optimum staffing levels and skills mix – (i.e. IEC 61850)
- Hybrid workforce / combining substation and relay classifications
- Employee recruitment and retention
- Affordability and funding for apprenticeship programs

## Additional Topics

- Wildlife outage prevention solutions
- HV Vacuum (Non-SF6) Breaker Technology – 72kV & Above
- Touchless vs. Touch-less substations





SUBSTATION BEST PRACTICES 2022

# CONFERENCE DETAILS

## What's Included

- Attendance at all conference sessions and participation in all breakout groups
- Several tours have been scheduled including Evergy's Rapid Recovery Transformer and Storage Facility in Lawrence, KS.
- In-depth Camlin monitor demonstration at substation.
- Meals during conference sessions (breakfast all three days and lunch on Tuesday and Wednesday)
- Evergy Hosted Dinner @ Jack's Stack BBQ Kansas City, MO
- UMS Hosted Dinner @ TBD

## Accommodations

Conference Hotel: Ambassador Hotel Kansas City, Autograph Collection  
1111 Grand Boulevard, Kansas City, Missouri, USA, 64106  
Phone Number: +1 816-243-5237

Kansas City International Airport Distance From Property: 19.5 Miles

Kansas City Airport Website: <https://www.flykci.com/>

Hotel Airport Shuttle: This hotel does not provide shuttle service.

Alternate Airport Transportation: <https://www.supershuttle.com/>

## Booking Details

A room block has been reserved with special rates available from 10/11/22 to 10/13/22.

NOTE: Reservations must be made by 09/10/22 to receive special rates.

The hotel is located about 19 miles from the airport. Hotel rooms can be booked through [this link](#).