POWER IN DISCOVERY

2022 IEEE PES T&D CONFERENCE AND EXPOSITION
PRE-SHOW PLANNER

APRIL 25-28, 2022 | NEW ORLEANS
It is with great anticipation and excitement for this moment in our industry’s history that I want to extend an invitation for you to join us in New Orleans for the 2022 IEEE PES T&D Conference and Exposition.

It came as no surprise to me that all of you rose to the challenge over the last few years to deliver critical services to keep individuals, businesses, and communities moving. Be sure to join us this April as we prepare for what lies ahead, including exploring new ways to tackle key issues around climate disruption, the electrification of infrastructure, and the impact of broadband and big data on energy outcomes.

We have an excellent lineup of experts and practitioners joining us this year, as well as several new experiences planned on the exhibit floor, all designed to help chart the future design and development of the grid. And we’ll be sure to celebrate in ways only possible in the great city of New Orleans.

Trust me when I say this will be a T&D you won’t want to miss.

Sincerely,

Carl Segneri
IEEE PES T&D Director NA Conferences
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Wayne Bishop  IEEE PES Vice President, Meetings
Tim Licitra  IEEE PES Executive Director
Carl Segneri  IEEE PES North America, T&D Director

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Joe Svachula (Chair)  John Mueller
Alex Flueck  Jackie Peer
Keven Geraghty  Carl Segneri

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The 2022 IEEE PES T&D Conference and Exposition would like to thank and recognize the following companies that have generously sponsored portions of this year’s conference.

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<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNDAY, APRIL 24</td>
<td>8:00am – 5:00pm</td>
<td>ISGT Tutorials and Onsite Registration</td>
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<tr>
<td></td>
<td>12:00pm – 5:00pm</td>
<td>Onsite T&amp;D Registration Open</td>
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<tr>
<td>MONDAY, APRIL 25</td>
<td>7:00am – 5:00pm</td>
<td>Registration Open</td>
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<td>7:30am – 5:00pm</td>
<td>Tutorials, Plain Talk, Ethics Session, Building Business Relationships Workshop</td>
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<td>8:30am – 10:30am</td>
<td>ISGT Opening Session and Keynote</td>
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<td>Technical Tours</td>
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<td>3:30pm – 5:00pm</td>
<td>ISGT Plenary Session</td>
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<td>6:00pm – 9:00pm</td>
<td>Conference Opening Reception at Mardi Gras World</td>
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<tr>
<td>TUESDAY, APRIL 26</td>
<td>7:00am – 5:00pm</td>
<td>Registration Open</td>
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<td>7:30am – 5:00pm</td>
<td>Plain Talk</td>
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<td>8:00am – 9:45am</td>
<td>Opening Session: How the Past is Powering the Future</td>
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<td>10:00am – 11:30am</td>
<td>ISGT Keynote and Plenary Session</td>
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<td>10:00am – 3:00 pm</td>
<td>Technical Panel Sessions</td>
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<td>10:00am – 5:00pm</td>
<td>Exhibits Open/Innovation Stages &amp; Smart Cities Pavilion</td>
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<td>11:30am – 1:00pm</td>
<td>Conference Luncheon in the exhibit hall</td>
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<td>1:00pm – 2:30pm</td>
<td>ISGT Sessions</td>
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<td>3:00pm – 5:00pm</td>
<td>Super Session 01: Exploring the Roadmap of Data Analytics and Artificial Intelligence for the Future Grid</td>
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</tbody>
</table>
WEDNESDAY, APRIL 27

7:00am – 5:00pm  Registration Open
7:30am – 5:00pm  Plain Talk
8:00am – 9:15am  Conversation with FERC Commissioner Clement
9:00am – 4:00pm  Technical Tours
9:30am – 11:30am Super Session 02: Preparing for Anything: Resilient System Design
10:00am – 6:00pm Exhibits Open/Innovation Stages & Smart Cities Pavilion
1:00pm – 2:30pm  ISGT Sessions
1:00pm – 5:00pm  Technical Panel Sessions
3:00pm – 4:30pm  ISGT Plenary Session
4:30pm – 6:00pm  Networking Reception in the exhibit hall
5:00pm – 7:00pm  Poster Session and Reception / Student Posters and ISGT Posters

THURSDAY, APRIL 28

7:00am – 2:00pm  Registration Open
8:00am – 10:00am Super Session 03: Decarbonization and Grid Modernization
8:30am – 10:00am ISGT Keynote and Plenary Session
10:00am – 3:00pm Exhibits Open/Innovation Stages & Smart Cities Pavilion
10:00am – 12:00pm Technical Panel Sessions
10:30am – 12:00pm ISGT Sessions
1:00pm – 3:00pm  ISGT Plenary and Closing Sessions
3:00pm – 4:00pm  Closing Reception and Raffle: Welcome to Anaheim in 2024!
TECHNICAL PROGRAM
Monday, April 25 – Thursday, April 28

From cyber security and renewable energies and storage to integrating DERs and advanced grid controls, this year’s Technical Program will deliver an unprecedented combination of more than 100 technical sessions featuring the hottest topics surrounding our industry. Join energy sector executives, engineers, and thought leaders for a dynamic line-up of Super Sessions, Panel Sessions, and Tutorials you’ll only find at T&D. You can even capture Professional Development Hours (PDH) by attending Technical Sessions, with Continuing Education Units (CEU) available for Tutorials, Plain Talk, and Building Business Relationships courses. Details on how to obtain these certificates will be provided at the conference.

EXHIBIT HALL
Tuesday, April 26 – Thursday, April 28

With over 700 exhibitors from across the globe under one roof, there’s simply no better place to explore the newest technologies, products, and services covering every aspect of transmission and distribution.

CONFERENCE LUNCH
Tuesday, April 26 – 11:30am – 1:00pm

Enjoy lunch as you walk around the exhibit hall while exploring real-world applications and the emerging technology and product solutions key to our industry’s future success.

NETWORKING RECEPTION
Wednesday, April 27 – 4:30pm – 6:00pm

Engage and mingle with leading product specialists, experts, and industry leaders over hors d’oeuvres and beverages during the exhibit hall Networking Reception.

Sponsored by:
ABB Inc.
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CONFERENCE OPENING RECEPTION
Monday, April 25 – 6:00pm – 9:00pm

Everyone knows that New Orleans knows how to party, so plan for a great Opening Reception to kick off the 2022 IEEE PES T&D Conference, Monday evening April 25th, 6:00pm-9:00pm. The celebration will take place at Mardi Gras World where you’ll savor the tastes of the city in specialties from gumbo and grits to bread pudding and beignets. You will see the parade floats, toast old friends with a hurricane, and meet new ones. As they say, “LAISSEZ LES BONS TEMPS ROULER!” Let the good times roll!

OPENING SESSION
Tuesday, April 26 – 8:00am – 9:45am

Make sure your travel plans will get you to the Morial Convention Center on Tuesday morning at 8:00am to hear the Opening Session. The session title, “How the Past is Powering the Future”, is a hint of what the hour will hold for you! The casual group of power and energy industry leaders will be moderated by IEEE PES Governing Board President Jessica Bian. Please visit IEEET-D.org or follow us socially at @ IEEETandD for special announcements on the 2022 Opening Session.
T&D POSTER SESSION AND RECEPTION / STUDENT POSTERS AND ISGT POSTERS
**Wednesday, April 27 – 5:00pm – 7:00pm**

The Poster Session and Reception provides a relaxed environment for registered conference attendees to enjoy hors d’oeuvres and beverages while viewing more than 100 accepted papers in poster format. Here you’ll have the opportunity to speak with the authors and even tour competing papers from the Student Poster Contest.

CLOSING RECEPTION
**Thursday, April 28 – 3:00pm – 4:00pm**

Don’t miss your chance to win one of many great prizes during the Closing Reception. Join us for the festivities as we raise a glass to thank the New Orleans team for a great show and welcome the 2024 T&D Anaheim Local Organizing Committee.

NEW IN 2022!

SMART CITIES PAVILION
**Tuesday, April 26 – Thursday, April 28**

Around the globe we’re undoubtedly facing serious challenges on issues such as climate change, increasing congestion, food insecurity, education, economic development, health and public safety, to name a few. The Smart Cities Pavilion, developed in partnership with IEEE Smart Cities, will feature utility and city case study exhibits to showcase effective collaborations working to make smarter cities a reality by leveraging technology such as smart street lighting, advanced electric vehicle charging infrastructure, sensors, and more. Explore this new and exciting pavilion to see what’s worked and what’s next, as well as connect with the companies dedicated to leading smart city transformation. Learn more at ieee-t-d.org/smartcities.

Collegiate and Young Professional Program

Offering an exciting and comprehensive schedule of student and young professional sessions and activities, the Collegiate Program is designed to help new talent launch successful careers in the power and energy industry. For a complete schedule of student and young professional activities visit IEEET-D.org/student.

Premiere Sponsors:

ABB
Honeywell

INNOVATION STAGES
**Tuesday, April 26 – Thursday, April 28**

Conveniently located on the show floor, the Innovation Stages provide a unique forum where state-of-the-art technologies will be debuted and practical product applications discussions will take place. While on stage, presenters will share case studies that offer insights into emerging trends and share valuable best practices. Learn more at ieee-t-d.org/innovation.

INTEGRATED SMART GRID TECHNOLOGIES (ISGT) MEETING

The 2022 IEEE PES T&D Planning Committee is pleased to welcome the 13th ISGT meeting to New Orleans, which provides a unique chance for shared education and networking opportunities. While the two events will maintain separate registration and technical programming, attendees will have access to both, ensuring a broader alignment on innovative approaches and new technologies impacting the energy grid. Learn more at https://ieee-isgt.org.
New Orleans Is Open For Business. T&D Will Be There To Welcome You.

The health and well-being of IEEE PES T&D attendees remains our top priority. By working closely with the Ernest N. Morial Convention Center and Federal, State and Local public health officials, we will incorporate current best practices to provide you with the best level of protection at the 2022 IEEE PES T&D Conference & Exhibition.

Visit ieee-d.org/healthguidelines for the latest.

LOCATION
The 2022 IEEE PES T&D Conference and Exposition will be located at the Ernest N. Morial Convention Center, New Orleans, Louisiana. For directions and other useful information visit https://mccno.com/.

REGISTRATION
To take advantage of Early Bird pricing, register by March 27, 2022. Online: ieeeet-d.org / Questions: 508.743.8573

HOTEL RESERVATIONS
We’ve partnered with Connections Housing to provide the lowest rates at over 20 major hotels in prime locations. While some of the hotels are within walking distance to the convention center, most will be serviced by complimentary shuttle buses starting Monday, April 25 and running through Thursday, April 28.

Book by March 28, 2022
Online: IEEET-D.org
Telephone: (470) 737-1919
Email: ieeehousing@connectionshousing.com

HOUSING ASSISTANCE
Be sure to look for the official T&D housing logo to ensure you are receiving the best rates and service. Connections Housing is available if you need assistance or have any questions while booking your hotel room.

EXPLORE NEW ORLEANS
Make the most of your stay by visiting https://nola.gov/ to discover New Orlean’s many culinary, entertainment and shopping experiences.
SUPER SESSIONS
The Super Sessions will bring together industry thought leaders to discuss and explore topics of particularly high interest that are vitally important to the future of the power industry.

PANEL SESSIONS
50 Panel Sessions will provide comprehensive discussions on a broad range of important trends, solution-oriented topics, and real-world applications being applied both domestically and globally.

TUTORIALS
Tutorials provide an in-depth look at topics important to power and energy professionals. Special paid registration is required and lunch is provided for all ticket holders. Space fills up quickly.
*CEUs available

T&D POSTER SESSION AND RECEPTION / STUDENT POSTERS AND ISGT POSTERS
View more than 100 accepted papers, meet with the authors, and tour competing papers from the Student Poster Contest while enjoying hors d’oeuvres and beverages.
To view the current list of accepted papers for 2022, please visit ieeet-d.org/papers.
See page 18 for this year’s review committees.

TECHNICAL TOURS
A variety of exciting Technical Tours will offer participants hands-on informative tours and demonstrations. Special paid registration is required and space is limited.

PLAIN TALK
IEEE Plain Talk courses for the power industry professional provide a greater understanding of the technical aspects of the electric power industry, even if you do not have an engineering background. Gain insights into concerns of engineers, the demands of regulators and consumer groups, and the factors and trends that impact the operation of today’s electric power systems. These courses are also appropriate for new engineers to the industry and engineers in other fields who are transitioning to the electric power industry and aim to increase their understanding of the electric power system by providing practical knowledge that can be used to work in or with this important industry.
*CEUs available

BUILDING BUSINESS RELATIONSHIPS WORKSHOP
Building Business Relationships guides participants to gain valuable insights about themselves and others by discovering actionable ways to build more effective relationships with others. Through the use of a self-assessment, participants receive detailed information regarding their style and how best to work with other styles to create more effective and productive relationships. The intended result is improved communication, reduced conflict, increased engagement, improved organization effectiveness, team collaboration, and enhanced leadership capability.
*CEUs available

Follow us @IEEETandD for special announcements and show highlights
TUT-01
OT Cybersecurity Best Practices for Procurement
8:00am – 5:00pm

TUT-02
Grid Energy Storage Technology and Applications
8:00am – 5:00pm

TUT-03
Distribution Automation and Management Systems with High Penetration of DERs, IBRs, and Microgrids
8:00am – 5:00pm

TUT-04
Stabilizing the Future Transmission Grid Using Dynamic Var Technologies
8:00am – 5:00pm

TUT-05
Grounding Design and Analysis for Personnel Safety in Wind and Solar Power Plants
8:00am – 12:00pm

TUT-06
Protection and Control with Digital Switchgear: The Foundation for Safety, Reliability, and Flexibility
1:00pm – 5:00pm

TUT-07
GIS / GIL Hot Topics for Tomorrow’s Grid
8:00am – 12:00pm

TUT-08
DNP3: SCADA, Clear and Simple
1:00pm – 5:00pm
TUT-09
Asset Management 101
8:00am – 12:00pm

TUT-10
Emergency Restoration of Transmission Lines – Planning, Approach, and Methodologies
8:00am-12:00pm

TUT-11
Cybersecurity-Focused Verification and Validation: A Streamlined Approach
1:00pm – 5:00pm

TUT-12
Analysis of Power Electronic-Based Transmission Technologies to Maximize Grid Utilization and Accelerate the Energy Transition
8:00am-12:00pm

TUT-13
Digital Condition-Based Asset Management Systems
1:00pm - 5:00pm

TECHNICAL TOURS

TT-01
Laser Interferometer Gravitational Wave Observatory (LIGO)
9:30am – 2:30pm
Cost: $50 *Proof of vaccination required

TT-02
Entergy Grid Storm Hardening
9:00am – 2:00pm
Cost: $50 *Proof of vaccination required

ETHICS SESSION

Ethics Session
1:00pm – 3:00pm
*Box lunch included at 12:00pm
Cost: IEEE Members $50 | IEEE PES Members $75
Non-Members $100

ISGT SESSIONS

ISGT Opening Session and Keynote
8:30am - 10:30am

ISGT Sessions
11:00am - 12:30pm
1:30pm - 3:00pm

ISGT Plenary Session
3:30pm - 5:00pm

OPENING RECEPTION

Conference Opening Reception at Mardi Gras World
6:00pm - 9:00pm

IEEE PLAIN TALK

Power System Basics: Understanding How the Bulk Electric Power System Works
7:30am – 5:00pm

BUILDING BUSINESS RELATIONSHIPS

IEEE Building Business Relationships Workshop
Morning Session: 8:30am - 12:00pm
Afternoon Session: 1:00pm - 4:00pm
Cost: IEEE Members $250 | Non-Members $300
OPENING SESSION

How the Past is Powering the Future
8:00am – 9:45am

The session title is a hint of what the hour will hold for you! The group of power and energy industry leaders will be moderated by IEEE PES Governing Board President Jessica Bian, President of IEEE Power & Energy Society.

Alison Silverstein | Independent Consultant
Damir Novosel | Quanta Technology
Edmund O. Schweitzer, III | Schweitzer Engineering Laboratory
Paul D. Hinnenkamp | Entergy

SUPER SESSION

SS01
Exploring the Roadmap of Data Analytics and Artificial Intelligence for the Future Grid
3:00pm – 5:00pm

The first super session of 2022 will focus on the implementation, application, and challenges for big data and AI within the energy grid. This includes discussion on the integration and operation of renewables, electrification, and the potential uncertainties of the energy business and operation model.

The conversation will be moderated by Chan Wong, Manager of Smart Meter Lab at Entergy, and will feature representatives from leading research and development companies that are driving our industry to the future through science and data analytics.

Hanna Grene | Microsoft
Raiford Smith | Tapestry X, the moonshot Factory
Jared Peterson | SAS

PANEL SESSIONS

PN01
Impact of Renewable Energy on T&D Planning and Operations
10:00am – 12:00pm

PN02
Enhancing Grid Resilience with HVDC and FACTS
10:00am – 12:00pm

PN03
Distributed Energy Resource Management Systems (DERMS) Design and Deployment for a More Sustainable and Distributed Grid
10:00am – 12:00pm

PN04
Sen Transformer – a SMART Power Flow Controller for Harnessing the Dormant Capacity of the Transmission Lines
10:00am – 12:00pm
PN05
Implementation of Building Information Modeling Technology: Changing the Game for Substation Design
10:00am – 12:00pm

PN06
Energy Storage as a Transmission Asset: Challenges & Opportunities
10:00am – 12:00pm

PN07
Professional Gains and Opportunities with Volunteering Engagement
10:00am – 12:00pm

PN08
Internet of Things (IoT) in Power and Energy Systems
10:00am – 12:00pm

PN09
Grid-Interactive Efficient Buildings to Enhance Power Grid Flexibility and Resilience
10:00am – 12:00pm

PN10
Fire Mitigation and Grid Resiliency
10:00am – 12:00pm

PN11
Innovations in Strategic Asset Management Planning
1:00pm – 3:00pm

PN12
The Next Generation Vision of the Future
1:00pm – 3:00pm

PN13
Building a Resilient Distribution Grid: Real-time Situational Awareness and Enhanced Control
1:00pm – 3:00pm

PN14
Distribution Network-Aware DER Coordination
1:00pm – 3:00pm

PN15
Grid Computing and Analytics – From Historical Solutions to Quantum Computing
1:00pm – 3:00pm

PN16
Bronzeville Community Microgrid: Implementation, Testing, and Lessons Learned
1:00pm – 3:00pm

PN17
Utility Hydrogen Pilot Projects
1:00pm – 3:00pm

PN18
Integration of Robust Optimization with Evolutionary Optimization in Smart Grid
1:00pm – 3:00pm

PN19
Inverter Generation Resources and Ground Fault Overvoltage
1:00pm – 3:00pm

PN20
Design, Visualizations, and the Control Room of the Future
1:00pm – 3:00pm

IEEE PLAIN TALK
Distribution System: Delivering Power to the Customer
7:30am – 5:00pm

ISGT SESSIONS
ISGT Keynote and Plenary Session
10:00am - 11:30am

ISGT Sessions
1:00pm - 2:30pm
SUPER INTERVIEW

Conversation with FERC Commissioner Clement
8:00am – 9:15am

Join us on Wednesday, April 27 for a special session with FERC Commissioner Allison Clements, in conversation with Peter Wells, CEO of Smart Wires.

SUPER SESSION

SS02
Preparing for Anything: Resilient System Design
9:30am – 11:30am

Climate and other disruptions continue to present enormous challenges for the fundamental role of utilities and the communities they serve. This session will be moderated by Cat Wong, Technology Operations Lead at Tapestry X, the moonshot Factory, and will explore lessons learned from recent extreme events, and also share current efforts on improving the resiliency and reliability of the grid to prepare for uncertainties in the future.

Damir Novosel | Quanta Technology
Erik Takayesu | Southern California Edison
Aftab Khan | Eversource Energy
Rafael da Silva Ozaki | Siemens Grid Software

PANEL SESSIONS

PN21
Technology Innovation for Humanitarian Needs and Disaster Response
1:00pm – 3:00pm

PN22
Business Values for TOs and ISOs in Utilizing Grid Enhancing Technologies
1:00pm – 3:00pm

PN23
HVDC Transmission and FACTS Fundamentals
1:00pm – 3:00pm

PN24
New Dual Nameplate kVA Distribution Transformers
1:00pm – 3:00pm

PN25
Significant Revisions Made to C57.104, the IEEE Guide for the Interpretation of Gases Generated in Mineral Oil-Immersed Transformers
1:00pm – 3:00pm

PN26
Integrating Grid-Forming Inverters with Utility and ISO Operations
1:00pm – 3:00pm
PN27
Offshore Wind Integration: DOE Perspectives and Lessons Learned and Best Experiences of Europe
1:00pm – 3:00pm

PN28
Advanced Deep Neural Network Techniques for Smart Grid
1:00pm – 3:00pm

PN29
Latest Trends in T&D Planning and Operations
1:00pm – 3:00pm

PN30
Distributed Solar and Electrification Will Soon Intersect and Stress Grid operations. What Can and Should Utilities Do?
1:00pm – 3:00pm

PN31
Temporary Overvoltage Considerations for Solar PV Power Plants
3:00pm – 5:00pm

PN32
Large-Scale Distribution Test Feeder Development with Emerging Operational Paradigms
3:00pm – 5:00pm

PN33
Towards a Carbon Free Energy System, a Nordic Perspective
3:00pm – 5:00pm

PN34
Advanced Voltage and Current Measurement for Evolving Distribution Systems
3:00pm – 5:00pm

PN35
Protective Relaying Virtualization Development, Deployment and Use Cases
3:00pm – 5:00pm

PN36
Grid Resiliency: Preventing and Responding to Extreme Events
3:00pm – 5:00pm

PN37
The Grid Disrupted: Using Optics to Manage the Chaos of Renewable Integration
3:00pm – 5:00pm

PN38
Advanced Smart Distribution Applications - The Building Blocks
3:00pm – 5:00pm

PN39
Value of data Science or Artificial Intelligence (AI) in Business Value Terms
3:00pm – 5:00pm

PN40
Future-Proofing the Energy Workforce: A People-First Approach to Strategic Talent Management
3:00pm – 5:00pm

TECHNICAL TOURS

TT-03
Naval Air Station Joint Reserve Base New Orleans
9:00am – 12:00pm
Cost: $15 *Restricted to U.S. Citizens only; Background check will be done, and proof of COVID19 vaccination required

TT-04
Entergy Grid Modernization Labs
1:30pm – 4:00pm
Cost: $15 *Proof of COVID19 vaccination required

IEEE PLAIN TALK

Transmission System: The Interconnected Bulk Electric System
7:30am – 5:00pm

ISGT SESSIONS

ISGT Sessions
1:00pm - 2:30pm

ISGT Plenary Session
3:00pm - 4:30pm
TECHNICAL PROGRAM
WEDNESDAY, APRIL 27

T&D POSTER SESSION AND RECEPTION / STUDENT POSTERS AND ISGT POSTERS

5:00pm – 7:00pm
To view the current list of accepted papers for 2022, please visit ieeet-d.org/papers.

This year’s papers were reviewed by the following committees:

- (AMPS) Big Data Analytics
- (AMPS) Computer Analytical Methods
- (AMPS) Distribution System Analysis
- (AMPS) Intelligent Systems
- (AMPS) Reliability and Risk Analysis
- Analytic Methods for Power Systems
- Electric Machinery
- Energy Development and Power Generation
- Energy Storage & Stationary Battery
- Grid & Emerging Technologies Coordinating Committee
- Insulated Conductors
- Power System Dynamic Performance
- Power System Instrumentation and Measurements
- Power System Operation, Planning & Economics
- Power Systems Communications & Cyber Security
- Power Systems Relaying & Control
- PSOPE – Bulk Power System Operations Subcommittee
- PSOPE – Distribution System Operation and Planning Subcommittee
- PSOPE – Power System Economics Subcommittee
- PSOPE – Technologies & Innovation Subcommittee
- Smart Buildings, Loads & Customer Systems
- Substations
- Surge Protective Devices
- Switchgear
- Transformers
- Transmission and Distribution
SUPER SESSION

SS03
Decarbonization and Grid Modernization
8:00am-10:00am
Organizations from across the energy ecosystem are exploring ways to optimize energy generation and usage to improve customer experience, while also developing a more efficient system to meet eco-friendly regulatory goals. This session will be moderated by Wayne Bishop, Head of Marketing at Omnicron, and includes multiple utilities in conversation around ideas and initiatives driving decarbonization and grid modernization.

David Ellis | Entergy
Lawrence Jones | Edison Electric Institute
Chris Root | VELCO
Shay Bahramirad | Luma Energy

PANEL SESSIONS

PN41
Enhancing Power Transfer Capabilities Between Utilities to Enable Successful Grid Transformation
10:00am -12:00pm

PN42
Proactively Securing Electric Utilities Based on Cyber-Risk Informed Testing
10:00am -12:00pm

PN43
A New Model for Investing in our Grid by Utilizing Technology
10:00am -12:00pm

PN44
Management Challenges and Corporate Social Responsibility for a Sustainable Future
10:00am -12:00pm

PN45
Integrating Behind the Meter Distributed Energy Resources (DER) for Bulk Market Services
10:00am -12:00pm

PN46
The Future of High Voltage Substation Project Execution – 3D Integrated Design and Construction (IDC)
10:00am -12:00pm

PN47
10:00am -12:00pm

PN48
Starting a Major Undergrounding Program
10:00am -12:00pm

PN49
Harmonic Voltage Distortions in Static Var System Applications
10:00am -12:00pm

PN50
Impacts of Recent FERC Regulatory Actions Regarding Dynamic Line Ratings
10:00am -12:00pm

ISGT SESSIONS

ISGT Keynote and Plenary Session
8:30am - 10:00am

ISGT Sessions
10:30am - 12:00pm

ISGT Plenary and Closing Sessions
1:00pm - 3:00pm

CLOSING RECEPTION AND RAFFLE

Welcome to Anaheim in 2024!
3:00pm- 4:00pm
Online Exhibitor List + Floorplan

Visit https://ieeet-d.org/attendee/expo/ for the full list of exhibitors and to see the floorplan.

Exhibitors as of January 3, 2022. View the current list online.

2023 IEEE PES GTD Conference & Exhibition Istanbul
3M Electrical Markets Division
A S E C, Inc
A Visual Plan Inc.
ABB Inc.
ABINEE - Associação Brasileira da Indústria Elétrica e Eletrônica
action Manufacturing
Aditya Birla Insulators (A Unit of Grasim Industries Ltd.)
Advanced Cable Bus, Inc.
Advanced Power Technologies
Advanced Rubber Products, Inc.
Advanced Test Equipment Rentals
AEMC Instruments
AFL
Albarrie GeoComposites Ltd
Alcad Standby Batteries
ALCE Elektrik San. ve Tic. AŞ
Alcon Connectors, a division of Meister International LLC
Allied Bolt, Inc
ALLIS COMMUNICATIONS
All-Pro Fasteners, Inc
Almetek
Aluma-Form, Inc
Ambor Structures, Inc.
American Polywater Corporation
AMERICAN WIRE GROUP
Ampacimon
Ampirical Solutions, LLC
Ampjack Industries Ltd.
Amran Instrument Transformers
AMSC-American Superconductor
AP Sensing Americas
Apar Industries Ltd.
APEX PRODUCTS CO., LTD
APP Engineering, Inc.
Applied High Voltage
AQ Transformer Solutions Inc
Arzteq Relays Ltd
A-Rent Test Equipment
Arrutí Group
Artche
ASC, Inc.
ASP PRIVATE LIMITED
ASPEX, INC.
ASSET Engineering
Astor Transformator Enerji Turizm.
Axis Electrical Components
BAE Batteries USA
Barnard Construction Co. Inc.
Baron USA
Basic Concepts Inc.
Basler Electric Company
Bently Systems
Beta Engineering
Bianchi Electric
Bierer and Associates
Black & Veatch
BMarko Structures
BROCKHAUS MESSTECHNIK
Bronder Technical Services
Brooks Manufacturing Company
BTECH, Inc
Burns & McDonnell
C Three Group, The
Cable Technology Laboratories
Calumet Specialty Products
Partners, L.P.
Cam Tran Co. Ltd.
Cambridge-Lee Industries LCC
Camlin Power
Canduct Industries
Cargill
CBC Metals Processing
CEATI International
CEM
Centriforce Products Ltd
Centurí Group, Inc
CESI
Cheryong Electric Co., Ltd
CHM Industries
Choctaw-Kaul Distribution Comp.
Classic Connectors USA
Cleaveland/Price Inc.
Cloverdale Paint Inc
CO7 Technologies
Cogent Power
Coil Innovation USA, Inc.
COMET METALS INC
Commonwealth Associates, Inc.
Compaq International (P) Limited
Computational Physics, Inc.
Concast, Inc.  
CONDIS SA  
Condux Tesmec, Inc.  
Conex Metals  
Construction Innovations  
Control Panels USA Inc.  
Copperweld Bimetals, LLC  
Cottrell Paper Company  
Craig Wire Products, LLC  
Creative Composites Group  
Cross Oil Refining & Marketing Co., Inc.  
Crosslink Technology Inc.  
Crown Technical Systems  
CTC Global  
Custom Truck One Source  
Delta Star, Inc.  
DiGiioa Gray & Associates, LLC  
Digitus Biometrics Inc  
DiSILENT Americas LLC  
DILO Company  
DIS-TRAN Packaged Substations  
DIS-TRAN Steel, LLC.  
DMB Winders LLC  
DMC Power  
DNV USA, INC  
Doble Engineering Company  
DroneDeploy  
Dronelnolt  
Dual-ADE  
DuPont Protection Technologies  
Dynamic Ratings, Inc.  
East Penn Manufacturing Co  
EasyPower LLC  
Eaton  
ebm-papst Inc.  
EC INSULATORS JIANGSU CO., LTD.  
Eco-Electrical Systems, LLC  
EDG, Inc.  
Eger Products, Inc.  
Egroup  
EJ  
Elecnor Hawkeye LLC  
Electric Power Engineers, Inc.  
Electric Power Systems  
Electrical Consultants, Inc.  
Electrical Contacts International, Inc  
Electrical Reliability Services (ERS)  
Electromark Company  
Electrostatics Ltd.  
Electroswitch  
Electrotechnik  
Elgin Power Solutions  
Ellis Patents Ltd  
Elpress Inc  
EMA Electromechanics  
EMB GmbH  
EMCO INDUSTRIES LIMITED  
EMEK ELEKTRIK ENDEKISI A.S.  
Emerald Transformer  
Empire Alloys Pvt. Ltd.  
EMT SF6 Analysers, Experts in SF6 Testing and Handling  
EnergyLite – a brand of Solais Lighting Group  
EnerSys  
Engineering and Inspection Services, LLC  
entegra gmbh  
Ergon, Inc.  
ERLPhase Power Technologies  
Ermco, Inc.  
ETAP  
Excel International  
Expanse Power Services  
Exponential Power, Inc.  
Farmers Copper LTD.  
FDH Infrastructure Services  
Federal Pacific  
Fiberglass Line Hardware, Inc.  
FirstPower  
Fischer Block  
FISO Technologies Inc  
FLOW OIL PUMPS PRIVATE LIMITED  
Foam Supplies, Inc.  
Forterra Pipe & Precast, LLC  
Fortune Electric Company, Ltd.  
Franklin Electric | Grid Solutions  
Furukawa Electric Group  
G&W Electric Company  
Galvan Industries, Inc.  
Galvatech 2000  
Gannett Fleming  
garza electrothermal  
GE Renewable Energy  
GEMS METAL  
Gindre Copper Inc.  
Global Power Components  
Gonzaga University  
GPP Solutions LLC  
Greenlee / HD Electric  
GRESCO  
Grid Structures  
Grip-Tite Manufacturing Company  
H2scan  
Hardcraft Industries, Inc.  
Harger Lightning & Grounding  
Haverfield Aviation  
Haysite Reinforced Plastics  
HDR  
HEDRICH Group / HEDRICH GmbH  
Heinrich Georg GMBH  
Henan Huaxing Wires and Cables CO., LTD  
Hendrix and Kerite by Marmon Utility  
Henkels & McCoy Group, Inc.  
HI TECH RADIATORS PVT LTD  
HICO America  
High Voltage, Inc.  
HindlePower, Inc.  
Hitachi Energy USA Inc.  
H-J Family of Companies  
HLH Aviation  
HLI Rail & Rigging, LLC  
Honeywell Smart Energy  
Howard Industries  
Hubbell Utility Solutions  
HÜBERS Verfahrenstechnik Maschinenbau GmbH  
Hughes Brothers, Inc.  
Huskie & Jameson  
HV Diagnostics, Inc.  
HV TECHNOLOGIES, Inc.  
Hyundai Electric & Energy Systems Co., Ltd.
IEEE MOVE Community Outreach
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ikeGPS, Inc.
ILJIN Electric Co., Ltd.
IML North America
Incab America LLC
Indel Bauru USA
Indiji Systems, Inc.
Induron Protective Coatings
Industrial Electric MFG. (IEM)
Inertia Engineering
Infrared Cameras Inc
Infrared Inspection Systems
Insulboot
Integrated Power Co.
intellirent
Intermountain Electronics
Interstate Electrical Contractors
IPS-ENERGY USA, Inc.
Irby Utilities
iSS Communications
Isabellenhütte USA
I-Tech USA, INC.
Jinma Industrial Group Co., Ltd.
Johnson Thermal Systems, Inc
JSHP Transformer
JST Power Equipment, Inc.
Kaddas Birdguard – Mitigating Wildlife Caused Power Outages
Kappa optronics Inc.
Karamtara Engineering Pvt. Ltd
KCS Corporation
KDM Engineering
KEPCO (Korea Electric Power Corporation)
Kiewit
Kinectrics
K-Line Insulators Limited
Klute Inc. T&D Steel Fabrication
Koncar-Instrument transformers Inc.
Krenz and Company Inc.
KSE Electricals Pvt Ltd
KUVAG North America
KV POWER
KYORITSU AMERICA LLC
L.A.E. srl
La Marche Manufacturing Company
LAESCO LLC
Lamifil
Laminated Wood Systems, Inc.
Laser Technology
Legnano Teknoelectric Company
Leidos
Lester Electrical
Lindsey Precast Inc
Lindsey Manufacturing Company
LineVision
LineWork Bucket Products LLC
Lithtech
Lorexco Inc.
Lovink Enertech B.V.
LS ELECTRIC America Inc.
MAC Products, Inc.
MacKay Sposito
MacLean Power Systems
Maddox Industrial Transformer
Magnum Piering
MasTec
Mastro Graphics
Matrix Service Company
Maverick Corporation
MB Metal Technologies LLC
McWane Poles
Megger
Meiden America Switchgear, Inc.
Meister International LLC
Mesa Associates Inc.
Metalgalva North America INC.
Metalpol S.A, de C.V.
MetPlas Inc.
Meyer Utility Structures
Micatu
Michels Power, Inc.
Midsun Group, Inc.
Milbank
MindCore Technologies inc.
Mississippi State University
Mistras Group
Mitas Industry Inc.
Mitsubishi Electric Power Products, Inc.
Modern Insulators Limited
Modine Manufacturing Company
Modular Connections, LLC
Monroe Infrared Technology
Monti Inc
Morpac Industries, Inc.
Morris P. Hebert, Inc.
Mosdorfer GmbH
MP Husky
MVA
Myers Power Products, Inc.
National Strand Products, Inc.
Nayak Corporation, Inc.
NDB Technologies
Neenah Foundry Co.
NeetraC/Georgia Tech
Neta-InterNational Electrical Testing Association
New River Electrical Corporation
Newpark Mats & Integrated Services
NGK-Locke, Inc.
Nisus
NKT Photonics, Inc.
NM Group a Trimble Company
NN
Nordic Fiberglass, Inc.
NovaTech, LLC
Novinum, INC.
Nreca TechAdvantage Expo
nVent ERICO
Nynas, Inc.
OEL Worldwide Industries
Ofil Ltd.
Okonite Company, The
Oldcastle Infrastructure
OMICRON electronics Corp. USA
Opal-RT Technologies
Oriental Export Corporation
OrmaZabal
Orto De Mexico, S.A. De C.V.
OSENSA Innovations Corp.
Osmose Utilities Services, Inc.
StressCrete Group
SubGrid Solutions
SUBNET Solutions Inc.
Substation Engineering Company
Summit Utility Structures, LLC
Sunbelt Solomon
Superior Concrete Products
Superior Tray Systems Inc
SUPREME & CO. PVT. LTD.
Suvvalent
Suzhou Furukawa Power Optic Cable Co., Ltd
Switchgear Power Systems, LLC
Systems with Intelligence
Taihan Cable & Solution Co., Ltd.
TATUNG ELECTRIC CO. OF AMERICA, INC.
TBEA USA Corporation
TE Connectivity/Raychem
Team Fishel
Tecfuse USA
Tech Products, Inc.
Tech4 LLC
Telescada
Terracon Consultants, Inc.
Tesco Controls
Tetra Tech Canada Inc.
The Gund Company, Inc.
The Pelsue Company
Threaded Fasteners, Inc.
Three D Metals
TorcSill Foundations, LLC
Tower Solutions Inc.
Trachte LLC
Tranco Production Machines Ltd
TransAmerican Power Products, Inc. (TAPP)
Transformers Magazine
TransGard LLC
Trantech Radiator Products Inc.
Trayer Engineering Corporation
TRC
Trench Limited
Triple Crown Products, Inc.
Tulstar Products
TÜV Rheinland
Twistarp
UL LLC
Ulteig
Underground Devices, Inc.
UNIQUE INDUSTRIAL PRODUCT COMPANY
United Engineers & Constructors
United Rentals
United Utility
USABand
Utility Pole Solutions, Inc
Utility Solutions Inc.
VAF Industries, LLC
Vaisala
Valmont Utility
Vantera Incorporated
VanTran Transformers
Varasset
VFP, Inc.
VIAT America Inc
Victor Insulators, Inc
Vidya Wires Pvt LTD
VIN DIP INDIA PVT LTD
Virginia Transformer Corporation
VIZIMAX Inc.
Voltgard, a Division of Saf-T-Gard International, Inc.
VON Corporation, The
Von Roll
W. E. Gundy & Associates, Inc. (WEGAI)
Watson Drill Rigs
WEG Transformers USA
Weidmann Electrical Technology Inc.
Weschler Instruments, Div of Hughes Corp.
Westwood Professional Services
WIKA Instruments, LP
Williams Form Engineering Corporation
Wilson Bohannan Lock Company
Wilson Construction Company
Windsor Stevens
Winola Industrial Inc.
WPI Worcester Polytechnic Institute
WSP
Xiamen Peaks Electric Co., Ltd
YAK ACCESS
ZTZ Services International, Inc.