

CIGRE NEWSLETTER

IN THIS ISSUE:

**PRESIDENT'S CORNER • TECH. ACTIVITIES • NGN CORNER
WELCOME TO CIGRE! • THANK YOU SPONSORS • AND MORE!**



A NOTE FROM THE PRESIDENT

Fellow U.S. CIGRE members,

I am writing to you the week after the USNC's Grid of the Future Conference held in Chicago. By all accounts, it was a tremendous success. Some of the highlights were:

- More than 400 attendees, smashing the previous record
- Registrants from 11 countries, 33 U.S. states
- 20 corporate sponsors
- 18% of attendees were women
- New record of 116 Technical Papers presented, along with two keynote speakers
 - From ComEd: Terry Donnelly, President and COO
 - From G&W: John Gournaris, VP of Marketing
- Four Keynote Industry Panels, led by senior industry leaders
- Most competitive Next Generation Network (NGN) Paper Contest ever, with five excellent presentations
- The Women in Energy (WiE) breakfast was well-attended, with Michelle Blaise, Senior VP of Engineering and Project Management at ComEd speaking and taking questions
- The NGN breakfast with two ComEd managers discussing career experience
- Well-attended NGN-sponsored dinner
- Philippe Adam, Secretary General of CIGRE, came from Paris to attend the GOTF Conference and present an update on CIGRE activities and strategic plans
 - He announced that the U.S. now has the most members of any National Committee!
- Excellent NGN Tutorial on Transformers given by Jim McIver of Siemens, and three well-attended technical tours of facilities in the Chicago area
- ComEd-sponsored dinner on the 99th floor of the Willis Tower, overlooking the city at night - an unforgettable experience with amazing views



A NOTE FROM THE PRESIDENT

ComEd was a great host for the entire week. Also, thank you to William J. Fluhler of ComEd, who led the local organizing committee, which coordinated the local aspects of the conference. Thank you to all attendees and I invite you to consider attending and writing a paper for the 2023 GOTF to be held in Kansas City, MO in October next year.

I must comment on the overwhelming support by the 20 industry sponsors who so generously supported the conference's breakfasts, breaks, lunches, and other expenses. This event would not be possible or as successful without their support. At the end of this newsletter is a list of the sponsors.

Also, a big thank you to Sharon Loe and Jessica Meadors who support the USNC all year long from Texas A&M University. They handle all of the administrative work associated with the U.S. National Committee and the GOTF conference. They were in Chicago and did an incredible job with the planning, organization, registration, and administration of the conference.

A few other updates on the U.S. National Committee:

- Jessica Lau of Xcel Energy will become the Chair of the WiE group in January, as Amanda Olson of Burns & McDonnell has accepted the role of Editor-in-Chief of the CIGRE Electra publication starting in 2023. Thank you, Amanda, for all you have done for WiE, and good luck with your new role in CIGRE.
- The number of U.S. Collective Members continues to grow and we are receiving new interest from utilities, vendors, and consultants weekly. I would remind Collective Members that they may sponsor universities for the low cost of \$400/year, which can help strengthen the ties between companies and the universities that supply our much-needed engineers.
- Lastly, I will be periodically informing you of some of the new reports (technical brochures), that CIGRE has recently released. These can be found on [e-cigre.org](https://www.e-cigre.org). The quality and relevance of these documents written by working groups are one of CIGRE's biggest values.
 - Recent reports are:
 - TB 883: SC B1 - WG B1.65. Installation of Submarine Power Cables
 - TB 882: SC C1 - WG C1.41. Closing the gap in understanding between stakeholders and electrical energy specialists
 - TB 881: SC C4 - WG C4.56. Electromagnetic transient simulation models for large-scale impact studies in power systems having high penetration of inverter-connected generation
 - TB 880: SC B1 - WG B1.56. Power Cable rating examples for calculation tool verification
 - TB 877: SC C5 - WG C5.28. Energy Price Formation in Wholesale Electricity Markets

Thank you for making 2022 an extremely successful year for the CIGRE U.S. National Committee and for your continued support. We are looking forward to more improvements and technical content and value for our members in 2023. I would end with a reminder to renew your membership for 2023, and if you think your company may want to become a Collective Member, please contact either me or Sharon Loe (s-loe@TAMU.edu).

Chris Root
USNC President

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NGN CORNER: PAPER COMPETITION

BY: CAMMIE POLACK AND TRAVIS HEINTZELMAN



cigre
Next Generation
Network

The 2022 CIGRE NGN Paper Competition was held on November 8, 2022, in which the five finalists presented their papers for an audience both in-person and virtually. Their papers covered a wide array of topics concerning the power industry. See below for more information on the finalists and their paper topics. Congratulations to all of the finalists!



2022 Paper Competition

Meet the Authors

The CIGRE U.S. National Committee Next Generation Network 2022 Paper Competition will take place on **Tuesday, November 8, 2022 at 12:45-2:15 CST.**

Mattewos Tefferi, G&W Electric Company
Power Quality Assessment in Distributed Energy Resources

Kurtis Bleak, POWER Engineers
Resiliency Analysis for Climate Hazard Impacts on Distribution System

Shikhar Pandey, ComEd, IL
Real-time Situational Awareness and Topology Detection using Distribution Linear State Estimator

Horacio Silva-Saravia, EPG & Yidan Lu, AEP
Linear State Estimator Deployment for Real-Time Power System Monitoring in AEP's Control Room

Joseph Johnson, Brittany Chapman, Joseph Galimidi, Commonwealth Associates Inc.
Analysis of Automatic Transitions from Grid Tied to Islanded Operation



TECHNICAL ACTIVITIES UPDATE

BY: JOHN MCDONALD

The 2022 Grid of the Future Symposium set records with technical activities. The 116 technical papers accepted and presented were more than in any of the previous nine GOTFs. The most papers previously accepted in any GOTF was 100. The 116 papers covered 13 of the 16 CIGRE Study Committees (no papers for SCs A1, C2 and D1) showing excellent technical diversity. In addition, to reinforce CIGRE's increased focus on distribution, 39 of the 116 papers, or 34%, were in the scope of SC C6 on Active Distribution Systems and Distributed Energy Resources! The 29 paper sessions were more than in any of the previous nine GOTFs. The most paper sessions in any of the previous nine GOTFs was 25.

Thank you to the authors, presenters, and paper session moderators for your participation! A special thank you to those companies who authored and submitted the most papers:

- ComEd with 18 papers covering five Study Committees
- EPRI with 10 papers covering five Study Committees
- Quanta Technology LLC with 8 papers covering four Study Committees
- S&C Electric with 6 papers covering three Study Committees
- National Grid, Mitsubishi Electric Power Products, Inc., and Commonwealth Associates, Inc. with four papers each
- POWER Engineers, Inc. and LUMA Energy with three papers each

The CIGRE Central Office and Technical Council are discussing a different schedule for the preparation, submittal, and review of synopses and papers for the 2024 CIGRE Paris Session. The goal is to shorten the time for the entire schedule. When this has been finalized, I will send the request for synopses for the 2024 CIGRE Paris Session email to all USNC members with the new time schedule and the 2024 Study Committee Preferential Subjects.

Thank you again for record-setting technical activities from USNC members for the 2022 CIGRE Paris Session with 80 synopses submitted (75 were accepted), 116 GOTF papers presented in 29 paper sessions, and more USNC subject matter experts participating in CIGRE WGs than any other National Committee! Let's continue to set records with our technical activities!

JOIN A WORKING GROUP!

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NEXT ISSUE: SCHEDULED FOR FEB. 15, 2023

WELCOME TO CIGRE!

Gerald Abella • Wisam Al Ouch • Samer Alramahi • Pedro Aneses • Carolina Arbona • Patrick Arns • Rebecca Avery • Tapas Kumar Barik • Sebastien Billaut
Gerry Callison • James Carlin • Jeffrey Carrara • Edward Champagne • Christopher Thomas Culpepper • Jorge De La Fuente • Samson Debass • Jeremiah Deboever
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Andrea Pinceti • Jeffery Preece • Nazila Rajaei • Jason Reuter • Tom Richardson
Julio Romero Aguero • Mojtaba Rostaghi • Benjamin Ryan • Caroline Santiago
Navin Shenoy • William Silkett • Andrew Silvius • Gautam Talagery • Sercan Teleke
Katherine Thompson • Yaswanth Nag Velaga • Joseph Von Sebo • David Wilson
Aaron Winter • William Winters • Lin Zhu

Jul. 18, 2023

Annual Luncheon and Meeting
Details TBA
11:30-1:00 in Orlando, FL



Pay Dues



Energy News Network:
How clean energy won the midterms



Reuters: White House announces \$13 bln in funding to modernize power grids



CNBC: The world's 'largest floating wind farm' produces its first power



Forbes: Why The U.S. Should Speed Solar Production That Doesn't Depend On China

Thank You!

Grid of the Future Sponsors

HOST



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PATRON, SUSTAINING, AND PRINCIPAL MEMBERS:

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Bonneville Power Administration • Burns & McDonnell
Commonwealth Associates, Inc. • Commonwealth Edison • ConEdison • CTC Global • Criticality Sciences, Inc. • Doble Engineering • Dominion Energy • Electric Power Research Institute (EPRI) • Electric Reliability Council of Texas (ERCOT) • ENTrust Solutions
Eversource Energy • FirstEnergy Corporation • GE Grid Solutions • Hunt Power, L.P. • ISO New England Inc. Leidos • Lindsey Systems • LineVision, Inc. • Mitsubishi Electric Power Products, Inc. • MPR Associates, Inc. National Grid USA • New York Independent System Operator, Inc. • North American Substation Services
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Kansas State University
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Oklahoma State University
Texas A&M University
University of Connecticut
University of Illinois - Urbana Champaign
University of Pittsburgh
University of Puerto Rico-Mayaguez
University of Tennessee
University of Vermont
Virginia Polytechnic Institute & State University

WELCOME RECEPTION:



WiE BREAKFAST:



NGN DINNER:



BREAKS:



We continue to solicit and accept sponsorships. Sponsorships can be purchased **at this link** on the CIGRE-USNC webpage. Request more information by emailing: Sharon Loe at **s-loe@tamu.edu**.