



QUANTA
TECHNOLOGY

The **Grid of the Future Symposium**, sponsored by the CIGRE US National Committee (USNC), with the theme Technology for the 21st Century Electric Utility, will be held **November 11-14, 2024** in **Raleigh, NC**.

The Symposium, hosted by **Quanta Technology**, will be a forum for the participants to discuss state-of-the-art innovations in generation, transmission, distribution, and innovative smart grid technologies.

Grid of the Future 2024 will feature plenary sessions, technical paper sessions, and tutorials by international experts. With up to 100 papers presented, three keynote speakers, and four industry panels from industry leaders, attendees will gain invaluable insights. The symposium starts with a Next Generation Network (NGN) tutorial, "Signals and Implications," and also includes the NGN Paper Competition for young professionals, a gala dinner at the North Carolina Museum of Natural Sciences, and three optional tours. Additionally, connect with peers and experts at networking events for NGN and Women in Energy (WiE).

The Symposium scope covers the following general topics:

- Active Distribution Systems and Distributed Energy Resources
- Enhancing Grid Resilience
- Grid Operation, Automation & Management
- Climate Change Adaptation
- Intelligent Protection and Controls
- Beneficial Electrification
- T&D Modeling, Sensors and Data Analytics

Tours and Tutorials:

Smart Wires Laboratory Tour

Date: November 14, 2024 from 8:30–11:30am

Description: Tour of grid enhancing technology provider, Smart Wires', global Research and Development, testing and validation laboratories located in the Research Triangle of North Carolina. The tour will cover an intro to Smart Wires' advanced power flow control technology (APFC), a tour of the lab itself (including our RTDS equipment, High Current Testing System, and Environmental Chamber), and light refreshments.

North Carolina State University FREEDM Center Tour

Date: November 14, 2024 from 8:00am–12:00pm

Description: At the FREEDM Center, they're building the internet of energy: a network of distributed energy resources that intelligently manages power using secure communications and advanced power electronics. Their research priorities include power electronics packaging, controls theory, solid state transformers, fault isolation devices, and power systems simulation and demonstration.

Additional tours and tutorials coming soon

About CIGRE USNC:

With over 50 collective members, 14 university members, and 1,000 individual members, CIGRE USNC is a collaborative global community committed to the world's leading knowledge program for the creation and sharing of power system expertise.