



TRANSFORMER
TECHNOLOGY

FEB

- + Advanced Diagnostics & Analytics
 - Data-driven diagnostics: machine learning and AI applications
 - Digital twins for real-time transformer health insights
- + Condition Monitoring Technologies
 - Online DGA; sensor technologies and trends
 - Partial discharge monitoring systems for early fault detection
 - Thermal monitoring: infrared, fiber-optic sensors, hotspot detection
 - Acoustic and vibration-based diagnostic techniques
- + Smart relays, circuit breakers, and protection devices
- + IEC/IEEE guidelines on diagnostics and monitoring

Application Deadline: 17-Dec Publication Date: 17-Feb

MAY

- + Reliability Engineered Design (RED)
- + Manufacturing, specifications and supply chain
- + Maintenance planning & processes
- + Key components
 - Bushings
 - Cooling systems
 - OLTC On-Load Tap Changers
 - Switchgear and breaker design
 - Insulation for long-term performance
- + Design for harsh environments
- + Corrosion-resistant materials and coatings
- + Digital reliability tools
 - Digital twin applications in reliability engineering
 - Simulation and modeling to predict failure
- + Electrical steel quality and its impact on lifetime reliability

Application Deadline: 07-Mar Publication Date: 07-May

AUG
/ SEP

- + Innovations in Insulation Systems
- + Mineral oils: diagnostics and behavior
- + Esters:
 - Natural esters
 - Synthetic esters
- + Fluid maintenance & management
- + Oil purification and filtration systems
- + Dissolved Gas Analysis (DGA)
- + Paper degradation and high-heat cellulose solutions
- + Cooling systems and solutions

Application Deadline: 02-Jul Publication Date: 02-Sep

NOV

- + Critical Transformer Components & Next-Gen Design
- + Advanced bushing technologies and innovations
- + Key components for performance and reliability
- + Windings and core design enhancements
- + Specifications for next-generation transformers
- + Component testing and monitoring solutions
 - Bushings
 - OLTCs
- + Switchgear components and advanced protection systems
- + TechCon Preconference Update
- + Critical failure points and mitigation strategies
 - Gaskets
 - Bushings
 - Gauges
 - OLTCs

Application Deadline: 10-Sep Publication Date: 10-Nov



POWER SYSTEMS
TECHNOLOGY

MAR

- + Digital Substation
 - Migration roadmaps
 - Engineering/commissioning tools (SCL), conformance & timing
- + Cable Systems & Innovations
 - Undergrounding solutions & accessories
 - Line/cable monitoring, fault location, repair techniques
- + Utility Communications & Interoperability
 - Substation LAN architectures; fiber vs. Private LTE/5G; latency & reliability
 - Time sync (PTP 1588), data modeling/interoperability
- + DER & DERMS Integration
 - Substation-distribution interface (telemetry/controls, Volt/VAR, hosting capacity)
- + Hosting-Capacity & Interconnection Modeling
- + DISTRIBUTED Highlights
- + Smart relays, circuit breakers, and protection devices

Application Deadline: 17-Jan Publication Date: 17-Mar

JUN

- + Grid Modernization & Flexibility
- + ADMS / OMS / FLISR (explicit)
 - Coordination with DERMS, VVO/IVVC, outage restoration & situational awareness
- + AMI 2.0 as a Grid Sensor
 - Interval analytics; outage/PQ feeding ADMS/DERMS
- + GIS Technologies
 - Network-model fidelity; mobile GIS; as-built model sync; twin alignment
- + Drone / Remote Sensing
 - LiDAR/thermal/visual inspections; vegetation/wildfire analytics; data -> APM/ADMS/GIS
- + Storage & Microgrids (incl. DC microgrids)
 - Interconnection; controls/protection; PQ/harmonics; thermal integration

Application Deadline: 16-Apr Publication Date: 16-Jun

OCT

- + The Digital Grid: Cybersecurity + Digital Twins + Reactive Power & PQ + AI
- + Cybersecurity for Critical Assets (NCSAM alignment)
- + Digital Twins & Predictive Grid Design
- + Reactive Power & Power Quality
 - STATCOM/SVC/SC; harmonic filters; PQ meters/analytics; PFC
- + AI for Grid Operations
 - Anomaly/PQ event detection; predictive maintenance; state estimation; cyber threat detection
- + Grid Resilience (design + operational playbooks)
- + Energy Storage Integration (interconnection, PQ/harmonics)

Application Deadline: 13-Aug Publication Date: 13-Oct

DEC

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Application Deadline: TBD Publication Date: TBD

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