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13th Edition
TRAFOTECH
Global



4-6 December 2025
Manekshaw Centre, New Delhi, India

Made in India
FOR GLOBAL MARKET



Indian Electrical & Electronics Manufacturers' Association

Established in 1948





The event served as a dynamic forum for cross-sector dialogue, practical innovation, and future-ready thinking. The active participation from across the globe has made TRAFOTECH one of the most anticipated power transformer conferences in the world.

As we move into TRAFOTECH 2025, the platform returns with an expanded vision — spotlighting transformative technologies, smart and digital solutions, and sustainability strategies that will define the next generation of power transformers.

This time again, we seek your wholehearted participation to discuss the trends, address pressing challenges, and co-create impactful solutions. Together, let's continue this remarkable journey that TRAFOTECH has fostered for over four decades.

In the quest for a sustainable future, the focus extends beyond the function of transformers in the electric grid to the concept of sustainable transformers themselves. Sustainable transformers go beyond their traditional role of efficient power conversion and transmission; they embody environmental consciousness, resource efficiency, and long-term sustainability.

Sustainable transformers are designed with the following key principles in mind:

- Solutions and products for sustainable applications
- Energy Efficiency
- Environmental Impact
- Resource Efficiency
- Life cycle Considerations
- Smart Grid Integration

At the TRAFOTECH Global, focus is to explore the latest advancements, best practices, and case studies in sustainable transformer technologies. Experts, researchers, utility professionals and industry leaders will share their insights on innovative design approaches, new materials, eco-conscious manufacturing processes, and energy-efficient solutions.

About the TRAFOTECH Global Conference

We are thrilled to announce the much-anticipated TRAFOTECH Global 2025 — a flagship conference where industry leaders, researchers, utilities, and innovators converge to explore cutting-edge technologies and pioneering solutions shaping the future of the transformer ecosystem.

Since its inception in 1982, TRAFOTECH has established itself as a premier platform for knowledge exchange, fostering collaboration and driving innovation in the transformer technology space. The conference brings together stakeholders from across the transformer value chain — including utilities, manufacturers, startups, academia, and regulators — to engage in meaningful dialogue and explore breakthrough solutions.

The 2023 edition marked a significant milestone in this journey, reinforcing TRAFOTECH's global relevance and impact:

TRAFOTECH 2023 Highlights

- 110+ Technical Papers Submitted
- 35+ Papers Presented across 6 Curated Technical Sessions
- 650+ Delegates Participated
- Keynote Speeches by Global Experts
- Lifetime Achievement Award
- Best Paper Awards





- Experience sharing on online/ virtual FAT and new trends to further improve effectiveness
- Evaluation of the contribution of Short Circuit testing towards reliability improvement
- Best practices in manufacturing, quality and testing such as long-term corrosion protection and painting life, MTBF statistics and bid evaluations, digitalization of documents etc.
- Artificial Intelligence in Power Transformer manufacturing and statistical approach for quality
- Emerging digital technologies for transformers: sensors, IoT, AI-based diagnostics
- Online monitoring systems for performance optimization and predictive maintenance
- Integration of BIS regulations and the need for harmonization
- Standardization in tank and accessory design
- Corrosion protection and coating techniques

Session III: Challenges in transportation, storage, installation, & commissioning

- New trends in site testing for effective diagnosis
- Special challenges in safe and reliable transportation (MoRTH guidelines for road/ bridge/ underpass, rail, barge) of power transformers from factory to the foundation (road surveys, lashing points, unloading, best practices in impact measurement etc.).
- Specification and best practices of reliable and safe storage (long term and short term) practices of power transformer installation and commissioning
- Criticality during installation and commissioning process and special care during installation of accessories and components at site
- Reduce non-usability- monitoring, storage, site tests etc
- Improving reliability through operation, maintenance, repair and refurbishment

Session IV: Reliable O&M practices & life cycle management

- Latest advancements in online monitoring and condition assessment techniques to improve effectiveness
- Environment, health and fire safety standards for sub-stations

Session I: Sustainability and reliability through new solutions applications, and specifications

- New products and processes, developments, and challenges in applications like mobile substations, unitized substations, renewable energy, etc. (VSR, PST Statcom T/f, Subdivided T/f, GIS T/f, Traction T/f, Rolling Stock Applications)
- Specifications and trends in new applications (Renewables, Wind, Solar, Pumped Storage, Micro Grid, Green Hydrogen etc.)
- Standardization: Specs across customers, challenges in implementing CEA transformer manual
- Reduce failures – improve reliability through specification reinforcement, robust design/manufacturing and discuss ways to tackle alarming failure rates in renewable applications.
- Design and development of distribution transformers for smart grid and the technical challenges
- Special design considerations for collector transformers for Solar and Wind park pooling sub-stations and optimisation strategy

Session II: Best practices in manufacturing, quality & testing

- New trends in manufacturing to improve quality and productivity
- New insights on tests such as DGA, SFRA, partial discharges and localisation techniques, modern moisture measurement methods such as FDS and PDP, and diagnostic testing.





- New development and trends in transformer accessories viz. bushings, tap changers, monitoring instruments, pressure relays, fibre optics etc.
- New testing trends and certification of material such as BIS certification for new CRGO grades 0.2mm thick laser scribed material
- New trends in OLTC for distribution applications
- Carbon footprint of transformers and design of transformers to reduce the carbon footprint and improve environmental impact
- Design criteria, materials and additional testing requirements for enhanced reliability and sustainability of transformers
- New trends and experiences in sealing methods
- Standardization and improved aesthetics of transformer tank
- Engineering solutions for transformers in seismic zones and high-altitude environments
- Design considerations for EHV and UHV class bushings

Session VI: Innovation and futuristic trends in the industry - Futuristic Transformers for 2030

- Disruptive technologies for power transformers
- Use of existing units for reverse power flow for renewable application
- New and advanced dielectric design concepts and techniques, compact units using high temperature insulation, dead front bushings instead of cable box etc
- Advances in transformer analytics, Thermo-Hydraulic Network (THN), Modelling & Computational Fluid Dynamics (CFD) study.
- Design of dry type transformers using emerging materials such as self-healing insulation, non-conducting heat pipes, carbon nano tube etc.
- Designs to withstand system-generated stresses: Switching transients, harmonics, emergency overloading, reverse - flow, frequent short-circuits, response of transformers to VFTO
- Onsite assembly of new transformers, assembly to site transformers
- IoT based sensor applications
- Transformers for HVDC and their role in DC power transmission
- Reactive power compensation and transformer design implications

- Reduce & reuse through uprating existing unit, universal spares, high temperature insulation/ester oils to extend insulation life/overload, mobile substations, and reclaimed oil
- Challenges and improvements in asset health indexing and RLA (Residual life assessment)
- Modern trends in asset management, O&M practices, site dryout and online filtration techniques
- Life cycle-based sustainability standards and guidelines as per ISO standards
- Transformer failures data by CEA
- Challenges of refurbishment/ retrofit of large rating transformers on existing substation
- Sustainable disposal practices
- Transformer end-of-life management: recycling, refurbishment, and restoration
- Environmental sustainability in transformer manufacturing and disposal
- Elimination of obsolete sealing methods

Session V: Emerging trends in transformer input material and accessories

- New development and trends in all input material such as insulation, conductors, magnetic and structural steel etc & oils (Esters/mineral)





Call for Papers

We cordially invite papers/ case studies from researchers, regulators, utility & industry professionals and visionaries to participate in the esteemed TRAFOTECH Global. Submissions of research papers are encouraged, focusing on valuable insights, novel approaches, and breakthrough findings in sustainable applications.

Interdisciplinary contributions from diverse backgrounds are highly welcomed as they enrich discussions and solutions towards a greener and more sustainable future. Join us in this vibrant gathering to share expertise, engage in meaningful discussions, and contribute to the global pursuit of sustainability, as we eagerly await your valuable contributions. Together, let's make a positive impact on our planet's future

Concluding and Valedictory Session

At the end of the three-day event, the chairman will wrap up the main insights, outcomes, and next steps from the intensive sessions.

Conduct of the Conference

- The language of the conference is English
- During the six technical sessions of 90 minutes each over the three days of the conference, the authors will make a summary presentation of the papers in respective sessions. There will be a dedicated 15 minutes allotted for the Q&A by the delegates at the end of each session.

Event Highlights

- Multiple technical tracks covering a wide range of domains to gain invaluable insights from renowned experts, practitioners, and visionaries shaping the future.
- Renowned keynote speakers sharing their views and experiences on critical aspects to address the pressing challenges, countermeasures, and way forward.
- Panel discussion with global experts, to contemplate on the status of the industry and way forward.
- Invite speakers from industry and academia to foster sustained collaboration.
- Invite promising startups to discuss innovative business ideas in transformers industry.
- Networking opportunities.

Delegate Participation	
CATEGORY	DELEGATE FEE*
IEEMA Member	Rs. 15,000
Non IEEMA Member	Rs. 17,500
Utilities/ PSUs/ Government Officials/ Academia/ Startup etc.	Rs. 10,000
International Delegate	USD 200

*GST of 18% will be applicable on the delegate fee for Indian Delegates

*For International Delegates Tax as Applicable

*Even if you attend one session of the conference, full delegate fee is applicable.

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For online registration
SCAN QR





Co-Host Opportunities

Sponsorship Category	INR	USD
Platinum	INR 11,00,000	USD 13,500
Diamond	INR 8,00,000	USD 10,000
Gold	INR 5,00,000	USD 6,500
Dinner	INR 11,00,000	USD 13,500
Utility Partner	INR 8,00,000	USD 10,000

*+GST/ TAX as applicable

Co-Host Benefits

Category	No. of Complimentary Delegates	Corporate video (120 Sec.) during Breaks	Logo coverage	Logo on event website, promo mailers & SM Posts	Company standee in pre function area	Advertisement in TRAFOTECH Bound Volume	CEO Interview
Platinum	12 (Incl. 4 VIP Reserved seats)	Y	<ul style="list-style-type: none"> Main Backdrop wings Thank you sponsors backdrop Bound volume Delegate Kit Delegate badge IJ Advertisement VIP Invitation Cards 	<ul style="list-style-type: none"> Event website SM Posts Conference related emailers and flyers 	3	2	<ul style="list-style-type: none"> TG Bound volume SM Byte (45-60 Sec)
Diamond	8 (including 2 VIP reserved seats)	Y	<ul style="list-style-type: none"> Main Backdrop wings Thank you sponsors backdrop Bound volume Delegate Kit Delegate badge 	<ul style="list-style-type: none"> Event website SM Posts 	2	2	<ul style="list-style-type: none"> SM Byte (45-60 Sec)
Gold	4	N	<ul style="list-style-type: none"> Main Backdrop wings Thank you sponsors backdrop Bound volume 	<ul style="list-style-type: none"> Event website 	1	1	N
Dinner	12 (Incl. 4 VIP Reserved seats)	Y	<ul style="list-style-type: none"> Main Backdrop wings Thank you sponsors backdrop Bound volume Exclusive Banner at Dinner Area Dinner Invitation Cards 	<ul style="list-style-type: none"> Event website 	3	2	<ul style="list-style-type: none"> TG Bound volume SM Byte (45-60 Sec)
Utility Partner	12 (Incl. 2 VIP Reserved seats)	Y	<ul style="list-style-type: none"> Main Backdrop wings Thank you sponsors backdrop Bound volume Delegate Kit Delegate badge VIP Invitation Cards 	<ul style="list-style-type: none"> Event website SM Posts Conference related emailers and flyers 	1	1	<ul style="list-style-type: none"> TG Bound volume SM Byte (45-60 Sec)





Who Can Attend

- Central/ State/ Private/ Utilities/ EP contractors who are responsible for the installation, operation and maintenance and life cycle management of Transformers.
- Manufacturers & Supplier of Transformer/ Raw Materials/ Components/ Accessories.
- Energy Planners, Energy Auditors and Industrial Consultants.
- Research Organizations, Laboratories, Standardization Bodies and Academic Institutes.
- Startups in Transformers Eco-system
- Engineers, Experts, Analysts from various sectors like Power, Cement, Oil & Gas, Refineries, Water & Waste Water Management, Food & Dairy, Metal & Mining, Pharma, Textiles, Chemicals, Papers, Transportation Segment (Railways, Metro, Hybrid Electric Vehicles) Venture Capitalists, Institutions, Smart City Officials, Academics etc.

Glimpses of Past Edition





IEEMA provides a platform for knowledge sharing, adoption of best practices and networking opportunities for manufacturers, utilities, professionals, international experts and organisations. It organises technical product-specific international seminars, national conferences and workshops. IEEMA works closely with government agencies, utilities, standardisation bodies, research & development organisations and testing institutes to formulate Indian standards for the electro-technical industry and developing energy-efficient products.

IEEMA engages with the startup community through its Electraverse platform, a unique initiative that enables startups in the energy domain to integrate with the core industry. This also enables the startups to strategic funding and future growth opportunities through pilot projects.

IEEMA has been compiling and disseminating detailed statistics of production data for more than three decades which is used extensively by industry and others. IEEMA also evolves and operates equitable and uniform Price Variation Clause (PVC) by circulating applicable monthly raw material prices and indices. Due to its unbiased and systematic approach, IEEMA PVCs have gained recognition and credibility over the last three decades and are a crucial part of almost all tenders of utilities, public sector enterprises and major private players, including projects funded by multilateral development agencies.

IEEMA produces well-researched publications and reports, including the IEEMA Journal -the leading electrical and electronics monthly in the country. IEEMA holds product special conferences and seminars across switchgear, transformers, conductors, etc. IEEMA also conduct world-class exhibitions like ELECRAMA, DistribuELEC, BuildELEC and E3.

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About IEEMA

Indian Electrical & Electronics Manufacturers' Association (IEEMA) is the apex association of manufacturers of electrical, industrial electronics and allied equipment in India. Founded in 1948, IEEMA has a pan India presence with its corporate office in New Delhi, registered office in Mumbai and regional offices in Kolkata and Bangalore. IEEMA has its State presence in Lucknow, Chandigarh, Jaipur, Srinagar, Guwahati, Raipur, Bhubaneswar, Gujarat and Hyderabad.

IEEMA has a membership base of over 1,000 representing a combined turnover of more than \$75 Billion exporting over USD 13.5 Billion. The members encompass complete value chain in power generation, transmission and distribution equipment that ranges from public sector enterprises, multinational companies to small, medium and large companies. The industry provides direct and indirect employment to over 2.2 million persons IEEMA is the trusted voice of the Indian electrical industry and plays a crucial policy advocacy role with the government and its agencies. IEEMA is an integral part of India's energy transition and working closely with policy makers for achieving clean energy goals and net-zero targets. IEEMA promotes initiatives like Atma Nirbhar Bharat, R&D and Innovation expanding global footprints and contributing to grid stability. IEEMA facilitates a robust two-way interaction and valuable exchange between the government and the industry. It sensitises all stakeholders on the future requirements for the development of the power sector in the country. IEEMA also engages proactively in government-industry consultations through its representation on councils and committees constituted by the government and its agencies in policy, strategic and other matters.

