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ieema journal

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IEEMA Journal covers original techno-commercial articles, interviews, international, national and corporate news, statistics, product showcase, country profile, seminars, exhibitions and services.

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Dear Members,

I wanted to take this opportunity to wish you all on IEEMA's 76th Foundation day.

It is indeed a journey that makes all of us proud. Reflective of the nation's march towards energy independence. How much has the Indian Power sector and our electrical equipment sector grown..from a fledgling industry, we are today more than USD 60 bn industry, capable of meeting not only India's Power sector needs as also exports. And manufacturing a full range of products, offering cutting edge technology and smart & new age solutions.

IEEMA has also grown in its role, stature and resources. Today, we have a seat on the high table on policy dialogues. We play a pivotal role in setting industry benchmarks and manufacturing standards and are also crafting strategic dialogues.

All this because of the value system set by our visionary founders and each of the leaders and IoT of the past were steadfast to quality, integrity and resolve to make industry and nation grow.

I would like to congratulate each one of you, and the IoT for being an integral part of this remarkable journey of shared passion and shared vision.

It is a journey of an Institute whose credo is building for the Nation, growing the Industry and marking global footprint with underpinning of Quality, Safety and Reliability.

It is a privilege to be associated with this remarkable Institute.

Once again, I wish you all and congratulate you on 76th Foundation Day of IEEMA.

Warm regards,

A handwritten signature in blue ink, appearing to read 'Hamza Arsiwala'.

Hamza Arsiwala

President, IEEMA (2023-24)

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Cover Story

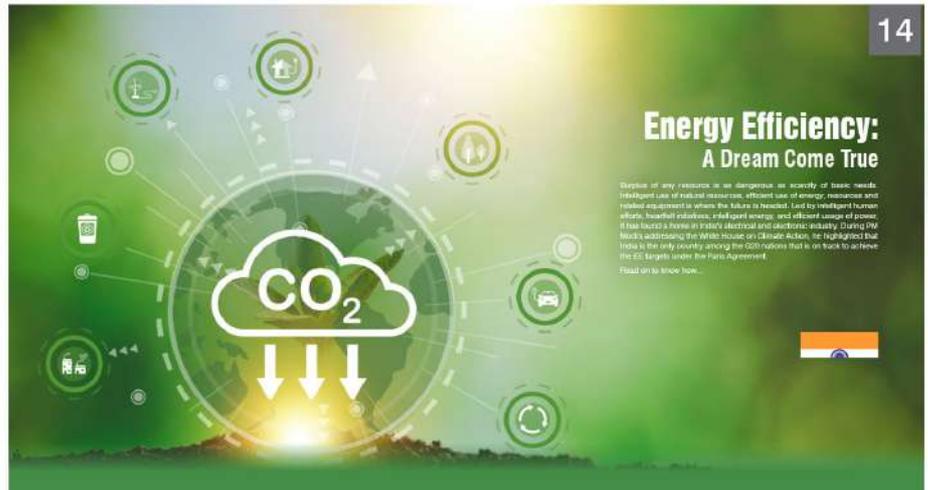
Energy Efficiency: A Dream Come True

The Cover Story features Energy Efficiency implementation through the states in India covering state-wise smart-meter, industry, DISCOM, municipality activities, with an EU perspective.

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IEEMA Think Tank

The winner of ElectraVerse Sparks 2024 sparkles through by participating in the Energy Efficiency discussion while two Start Up contestants present their initiatives as energy efficient solutions.



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Energy Efficiency: A Dream Come True

Depletion of any resource is as dangerous as scarcity of basic needs. Intelligent use of natural resources, efficient use of energy, resources and related equipment is what the future is headed. Led by intelligent human efforts, beautiful solutions, and smart energy, and efficient usage of power, it has found a home in India's electrical and electronics industry. During PM Modi's electrification of India mission on Climate Action, for highlighting that India is the only country among the G20 nations that is on track to achieve the EU targets under the Paris Agreement. Please go to know how...

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INSULEC 2024 Show Report

INSULEC 2024 - 11th International Conference on Electrical & Electronic Insulating Materials & Systems.

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IEEMA Events

TECH-IT 2024 Makes a Mark

TECH-IT 2024 - 5th International Conference on Instrument Transformers

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E3 Rocks Kolkata

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TECH-IT 2024 BEST PAPER

Current Transformers for the Transient Application for HV Networks

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TECH-IT 2024 BEST PAPER



Usage of Novel Biodegradable Dielectric Fluids in High-Voltage Instrument Transformers

Usage of Novel Biodegradable Dielectric Fluids In High Voltage Instrument Transformers

For suggestions and feedback please write to us on editor.ieemajournal@ieema.org

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OBO Bettermann is an independent family company with a tradition stretching back over 100 years and four generations. OBO has more than 30,000 products and are the market leaders in providing the complete solutions for all your electrical infrastructure needs.



Industrial Installations

- ⊕ Cable trays, Cable ladders and Wire mesh trays
- ⊕ Junction Boxes, Cable Glands and Profile rails
- ⊕ Beam Clamps and Wire Rope Suspension Systems
- ⊕ Solar Module Mounting Systems



Building Installations

- ⊕ Halogen free Wall trunking Systems
- ⊕ Underfloor Systems
- ⊕ Service poles for power & data
- ⊕ Suspended power supply units - Hover Cube

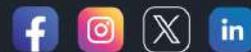


Safety and Protection Installations

- ⊕ Surge Protection Devices
- ⊕ Lightning Protection Systems
- ⊕ Earthing Systems
- ⊕ Passive Fire Protection Systems



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Building Connections



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A Journey towards Un-Manned Substations for Instrument Transformers – Internal Arc Test For Safety & Reliability

A Journey Towards Unmanned Substations For Instrument Transformers – Internal Arc Test For Safety & Reliability

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Special Feature

Offshore Wind Application Transformers



Offshore Wind Application Transformers

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Testing of Transient Response Current Transformer as per IEC 61869-2

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Case Study

Modes Of CT Failure During Short Circuit Tests

- A Case Study at 100 MVA On Line Testing Station, CPRI, Bhopa

Current Transformers (CT) are used for metering & protection of power system. CT plays vital role in measurement of current during short circuit fault in power system and provides this information to relays which in turn operates circuit breakers to clear fault.

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Case Study

Internal Arc Fault Testing as per IEC 61227 on EHV Current Transformers used in Nuclear Power Plants



Internal Arc Fault Testing as per IEC 61227 on EHV Current Transformers used in Nuclear Power Plants

Large numbers of failures of EHV Current Transformers (CT) are reported in the recent years.

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Case Study

Critical Issues On Current Transformer During Short Circuit Test



Critical Issues on Current Transformer During Short Circuit Test

Current Transformer acts an important role in protection of power system network in terms of differential protection, earth faults and over currents.

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Current Transformers for the Transient Application for HV Networks

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Case Study

Testing of Transient Response Current Transformer as per IEC 61869-2

General PX class CTs generally have a slower response time and are not optimized for capturing high-frequency transients. Hence, transient core CTs are commonly used in applications, where accurate measurement and analysis of transient currents are essential for system performance and equipment protection.

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Ministry Updates

Compensation Methodology for Operating a Thermal (Coal) Generating unit below 55% Minimum Power Level



India's Interim Budget 2024, presented by Hon'ble Finance Minister Smt. Nirmala Sitharaman, lays out the government's spending plans for the first half of the upcoming fiscal year.

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- Induction of Electric Vehicles In Indian Army

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