

the leading electrical & electronics monthly

ieema journal

VOL 17 • ISSUE NO. 2 • OCTOBER 2025

PGS. 100

ISSN 0970-2946 • ₹100/-

ANNUAL CONVENTION 2025 & IEEMA 78th AGM



OTHER STORIES:

- **NEWS ANALYSIS:** GST 2.0: Strategic Implications and Next Steps for India's Power Sector
- **SPECIAL FEATURES:** T&D – Accelerating Energy Transition in India; Skilling – A Cornerstone of India's RE Growth
- **FOCUS:** Top Energy Efficiency Performing States; Green Hydrogen from Biomass

the leading electrical & electronics monthly

ieema journal

JULY 2025



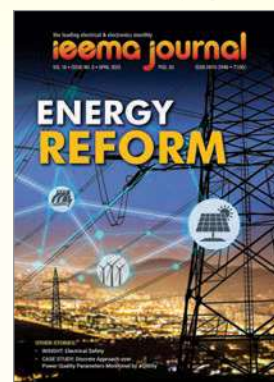
JUNE 2025



MAY 2025



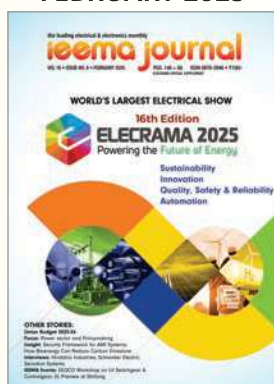
APRIL 2025



MARCH 2025



FEBRUARY 2025



JANUARY 2025



DECEMBER 2024



THE MONTHLY DEVOTED TO ELECTRICAL AND ELECTRONICS INDUSTRY

National Subscription rates including postage

No. of Issues	Subscription Price
12 Months/ 1 Year	₹ 1000/-
24 Months/ 2 Years	₹ 1800/-
36 Months/ 3 Years	₹ 2400/-

Kindly allow four weeks for delivery of the first issue
International: US \$120 (Air-mail)

For Advertisement, contact:

Mr. Prakash Powar

Mobile: 99700 77977 | Call: 91 22 24932705 | Email: journal@ieema.org

Indian Electrical & Electronics Manufacturers' Association

Established in 1948

Solar Products

Global technology, now proudly **Made in India.**



Solar Junction Box

Variant **25A** **30A** **35A**

- IP68 Protection
- 1500V Rated Voltage
- Temperature Range -40°C to +85°C
- Flammability Class UL-94 V0, 5VB
- Extremely Reliable Diodes
- IEC Tested



PV4-S Connectors

- One pole connector for 1500V DC
- Watertight IP X8 (1m / 24 hrs.)
- 2 versions 2.5 mm² and 4-6 mm²
- Range from 5.0 mm to 7.8 mm
- Power handling up to UL30A
// IEC 45A @ 85°C
- Extremely reliable (IEC tested)

Product Offerings

- | | | | |
|------------------------------|----------------------|--------------------------|----------------------|
| • Cable Accessories | • Enclosures | • Surge Arrester | • ELPS |
| • Cable Management Solutions | • Transformers | • Electrical Safety | • Solar Products |
| • ABC Accessories | • Covered Conductors | • Gas Metering Solutions | • EV & BESS Bus Bars |

🌐 CIC@raychemrpg.com
📧 www.raychemrpg.com
☎ 022 4574 5060

Contents

Volume 17 • Issue No. 2 • October 2025

CIN U99999MH1970GAP014629

Official Organ of Indian Electrical & Electronics
Manufacturers' Association

Member: The Indian Newspaper Society

From the President's Desk
Samvaad

8
10

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

COVER STORY

IEEMA ANNUAL CONVENTION & 78th ANNUAL GENERAL MEETING 12

Standing ovations, applauses, and a commitment to drive the energy revolution in India and worldwide – IEEMA's recently held Annual Convention and 78th AGM witnessed this and more...



NEWS ANALYSIS

GST 2.0: Strategic Implications and Next Steps for India's Power Sector 37

The GST Council recently announced a reduction in tax on renewable energy devices, including solar and wind equipment and their manufacturing parts. Lower GST rates can make domestic and imported electrical components more price-competitive, encouraging increased sales and market expansion, reports **IEEMA JOURNAL**.

SPECIAL FEATURES

India's T&D Sector: Opportunities to Redefine the Energy Landscape 44

The T&D segment in India is expected to get a significant boost with an estimated capex of Rs9.1 trillion between FY25-32. With a pipeline of tariff-based competitive bidding transmission projects valued at Rs0.74 lakh crore up to FY2026, the outlook for India's T&D sector remains robust, with opportunities to redefine the energy landscape.

Skilling: A Cornerstone of India's Renewable Energy Growth 64

India's power sector energy landscape drives a need for abilities to match new technologies, opening the floodgates of the job market and the need for skilled technicians. **IEEMA JOURNAL** throws light upon the power sector's skilling scenario.

FOCUS

Top Energy Efficiency Performing States: Maharashtra, Andhra Pradesh, Assam, Tripura 58

The BEE State Energy Efficiency Index 2024 assesses energy efficiency performance of 36 states and Union Territories for FY2023-24, supporting data-driven monitoring, best practice sharing, and healthy competition among states. More in this report...

IISc Bengaluru produces Green Hydrogen from Biomass 39

Researchers from the Indian Institute of Science (IISc), Bengaluru, have developed a highly efficient method of generating green hydrogen – the technology can produce 100 gram of hydrogen from 1 kg of biomass although only 60 gram of hydrogen are present in 1 kg of biomass.

INSIGHT

Prepayment Approach in Smart Metering Systems: Enabling Consumer-Centric Utilities, Empowering Consumers 51

This paper by **Lokesh Devpura** and **Bhavik Talesra** of **Secure Meters Ltd** explores the challenges and solutions associated with successfully implementing prepayment systems, focusing on addressing concerns among utilities and consumers, and benefits for key stakeholders.

ONE-STOP SHOP EPC COMPANY

SALASAR TECHNO ENGINEERING LTD.

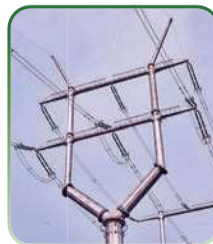


**66kV D/C Multi Level Tension/
Dead End Pole**
MPSEZ Utilities Ltd., Mumbai



**220kV Multi Circuit Tension/
Dead End Dual Pole**

MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**400kV Double Circuit
Tension Dead End Y-Pole**

MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**400kV S/C "Tension/Dead
End" Y-Pole**

PGCIL (Power Grid
Corporation of India Ltd.),
Lucknow



**220kV Double Circuit
Cable Termination Pole**

MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**Asia's Widest Galvanizing
Facility*** with Unmatched
Throughout



Leading Player in
**Monopoly Infrastructure
Solutions**



**3 State-of-the-art
Manufacturing Units**
Spread Across 30+ Acres



**30mm Mild Steel
Bending Capacity** with
High-Precision Machinery



**200,000+ MTPA Installed
Capacity** for Large-scale
Execution



**In-house Quality Labs –
Certified with ISO,
OHSAS, CPR** and Other
Standards to Ensure
Safety and Regulatory
Compliance.

* As per our sources

ENGINEERING • PROCUREMENT • CONSTRUCTION • MANUFACTURING • GALVANIZATION

Salasar Techno Engineering Ltd.

☎ 0120-648-8470

✉ marketing@salasartechno.com

🌐 www.salasartechno.com

Dayanand Swamy Kuna

FIE, C.Eng, President / CEO (EPC & Sales And Marketing)

☎ +91-83299-40086 • +91-99608-97384

✉ dayanand.kuna@salasartechno.com

dayanand.kuna@gmail.com

SPECIAL REPORTS

Advanced Lithium-ion Battery Plant inaugurated in Haryana 42

The new facility, inaugurated by Union Minister of Electronics and Information Technology Shri Ashwini Vaishnaw, has a capacity to manufacture 20 crore battery packs annually, meeting nearly 40 percent of India's requirement.

CPRI inaugurates Regional Testing Lab at Nashik for Electrical and Power Equipment 63

The lab will serve industries in the western region of India, providing cutting-edge testing services for a wide range of electrical and power equipment such as transformers, energy meters, smart meters, and transformer oil.

435 MW Gorbea Solar Power Project in Rajasthan inaugurated 72

The power plant – which will supply clean power to 128,000 households and cut carbon emissions by 705,000 tonne annually – was built in under eight months, representing a major milestone in India's renewable energy expansion.



CASE STUDY

Innovative Solutions for Enhancing Transmission Capacity: TGTRANSCO's Approach 70

TGTRANSCO, using the existing 132 kV line and upgrading it to 220 kV, showcases a cost-effective, scalable and sustainable transmission planning.

IEEMA ACTIVITIES

Shri Piyush Goyal inaugurates IEEMA's Powering Progress Zone at IEC 77

Meeting with Shri Piyush Goyal, Hon'ble Minister, Ministry of Commerce & Industry 78

Interactions at the International Electrotechnical Commission (IEC) 79

Awareness cum Facilitation Session on Zero Defect Zero Effect Certification 80

Webinar on 'Unlocking Export Potential – Market Access Strategy & Future Opportunities in the Electrical Sector' 81

Country focus: Kazakhstan and CIS Region; the US

IEEMA EVENTS

Bihar Power Conclave 74

IEEMA inaugurated the first edition of the Bihar Power Conclave in Patna – a milestone event to catalyse power sector growth in the state.



POLICY UPDATES 83

- New scheme to be proposed by for debt restructuring of distribution utilities.
- India targets swadeshi solar cells by 2028; moving towards indigenous wafers and ingots: Union Minister Pralhad Joshi.
- Union Minister Pralhad Joshi launches Rs100 crore call for proposals for start-ups.
- Growing semiconductor ecosystem: First 'Made in India' chips.
- GoI notifies National Policy on Geothermal Energy (2025) to accelerate clean energy transition.
- MoP initiates stakeholder survey to build IES.

NEWS

NATIONAL 86

- Centre to propose Rs389 billion carbon capture programme for industrial sectors
- Mahagenco and SJVN get JV approval from Maharashtra Government for 5,000 MW renewable projects
- Andhra Pradesh expedites Rs149.62 billion transmission network expansion
- IGL, RVUNL sign JV for solar project in Rajasthan
- MoP clarifies appraisal of DPRs for hydro projects and PSPs exempt from CEA concurrence
- CEA issues directive for identifying generating station unit(s) for captive use by SPV
- Telangana Government to establish new discom and accelerate UG cabling project in Hyderabad

- NTPC Green Energy commissions 100 MW under IRPL project.

INTERNATIONAL

87

- Singapore secures USD 655 million for green infrastructure in South-East and South Asia.
- Consortium to build Masdar's largest floating solar plant in Malaysia.
- Ethiopia inaugurates 5,150 MW GERD, marks completion of Africa's largest HEP.
- Avaada Electro showcases PV Modules at RE+ 2025 in Las Vegas.

CORPORATE

88

- Serentica signs PPA with SECI for 100 MW round-the-clock power.
- KPI Green Energy raises Rs 6.70 billion through India's first credit-enhanced green bond.
- Tesla Group and SRAM & MRAM to jointly invest USD 1 billion in BESS gigafactories in India.
- Adani Group to invest USD 60 billion in power sector by FY32.
- Meenakshi Energy commissions 1,000 MW thermal power plant in Andhra Pradesh.

PRODUCT SHOWCASE

Digital Earth Resistance Tester

89

POWER STATISTICS

- Global Scenario
- Indian Scenario

91

92

IEEMA DATABASE

- Basic Prices and Indices
- Production Statistics

93

94

EXIM REPORT

Export-Import Scenario

95

AD INDEX

97

SHOCKS & SPARKS

Famous Feasts – By RG Keswani

98

For subscription and advertisement queries, write to: journal@ieema.org

Edited, printed and published by Ms. Charu Mathur on behalf of Indian Electrical and Electronics Manufacturers' Association, and printed at Indigo Press (India) Pvt Ltd, Plot No. 1C/716, Off Dadoji Konddeo Cross Road, Between Sussex and Retiwala Industrial Estate, Byculla (E), Mumbai-400 027, and published at 501, Kakad Chambers, 132, Dr. Annie Besant Road, Worli, Mumbai 400 018.

EDITORIAL BOARD

ADVISORY COMMITTEE

Founder Chairman

The late RG Keswani

Chairman

Sunil Singhvi

Members

Sunil Singhvi
Rohit Pathak
A Naveen Kumar

R Krishnakumar

Mustafa Wajid
Atul Arya
Imteyaz Siddiqui

Editor

Charu Mathur

Statistics & Data Incharge

Ninad Ranade

Printed at

Indigo Press (India) Pvt Ltd

Designed by

Varghese Sakariya

Registered Office – Mumbai

501, Kakad Chambers, 132, Dr A Besant Road, Worli, Mumbai 400 018.

Phone: +91(0) 22 24930532 / 6528

Fax: +91(0) 22 2493 2705 • Email: mumbai@ieema.org

Corporate Office – New Delhi

Rishyamook Building, First floor, 85 A, Panchkuian Road, New Delhi 110001.

Phone: +91 (0) 11-23363013, 14, 16

Fax: +91 (0) 11-23363015 • Email: delhi@ieema.org

Branch Office – Bengaluru

K Seetharaman, Assistant Director

State Head – Karnataka, Kerala and Tamil Nadu

Regional Representative-Southern Region

Mobile: +91 99800 04982

Email: k.seetharaman@ieema.org

Branch Office – Kolkata

Sanjoy Mukherjee, Regional Representative-Eastern Region

Mobile: +91 98308 50757

Email: sanjoy.mukherjee@ieema.org

Website: www.ieema.org

Articles: Technical data presented and views expressed by authors of articles are their own and IEEMA does not assume any responsibility for the same. IEEMA Journal owns copyright for original articles published in IEEMA Journal.

STATE HEADS

Rajesh Parab

Senior Executive Officer & State Head-Maharashtra

Mobile: +91 97022 69598

Email: rajesh.parab@ieema.org

Anuj Kumar Chaturvedi

State Head-UP, Uttarakhand & MP

Mobile: +91 98396 03195 / 95191 38844

Email: anuj.chaturvedi@ieema.org

Ashish Vikram

State Head-UP

Mobile: +91 98733 05589

Email: ashish.vikram@ieema.org

Omkar Pradhan

State Head-Gujarat

Mobile: +91 98199 06433

Email: omkar.pradhan@ieema.org

Mohammad Irfan Parray

State Head-Jammu & Kashmir

Mobile: +91 98584 55509

Email: irfan.parray@ieema.org

Nilankha Chaliha

State Head-North East

Mobile: +91 97063 89965

Email: nilankha.chaliha@ieema.org

Rajnish Kaushik

State Head-Haryana, Punjab, Himachal Pradesh & Chandigarh

Mobile: +91 99911 10246

Email: rajnish.kaushik@ieema.org

Sairam Rayepeddi

State Head-Hyderabad

Mobile: 9642345691

Email: sairam.rayepeddi@ieema.org