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- **FOCUS:** Integrated Electrical Planning for Large Townships
- **INSIGHTS:** Parameters Impacting the Life of Polymer Composite Insulators; Health Monitoring of Power Substation Major Equipment

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With 160+ exhibitors, 1,000 structured B2B meetings and 150+ key buyers, IEEMA successfully concluded the 4th BuildELEC and 1st CompeELEC under its **West Konnect** initiative to strengthen India's electrical and components manufacturing ecosystem and accelerate industry growth toward the USD 130 Billion vision by 2030.



FOCUS

Integrated Electrical Planning for Large Townships	28
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This paper by **Madhava Narasimha Murthy Nedunuri** is a comprehensive analysis of electrical system behaviour in large townships, based on practical execution experience across multi-acre developments. It explains why township electrical systems cannot be designed like enlarged buildings and examines the long-term behavioural patterns that shape reliability.

CASE STUDY

Preventing Power Transformer Failure in TGTRANSCO: Analysis & Measures	46
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Keshnath Chauhan, Assistant Divisional Engineer, TGTRANSCO, presents a systematic failure analysis of power transformers in TGTRANSCO based on field data, diagnostic test results, and maintenance records. The study further highlights preventive maintenance strategies and condition monitoring techniques – such as DGA, tan delta testing, bushing and OLTC monitoring – that can enhance transformer reliability and service life.



INSIGHTS

Key Parameters Influencing Service Life of Polymer Composite Insulators 42

Dr. Nitin Shingne, Advance Materials Section, R&D, Electrical Research and Development Association (ERDA) Vadodara, examines key quality aspects and influencing factors that govern the durability and reliability of polymer composite insulators, with emphasis on their long-term performance in high-voltage transmission environments.

Health Monitoring of Power Substation Major Equipment 53

Namrata Katkar, Senior Quality Assurance Engineer, SCOPE T&M Private Limited, presents an overview of three major substation equipment and the role of health monitoring technologies in improving grid performance and ensuring sustainable and resilient power infrastructure.

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- Gol amends Rule 3 of Electricity Rules, 2005 relating to CGPs.
- Cabinet approves scheme on small hydro power development scheme for FY2026-27 to FY2030-31.
- Government announces standards of green ammonia and green methanol.
- India, Malawi discuss cooperation in power and energy sector.
- CEO Roundtable on Power Distribution under the draft NEP.
- Government extends ALMM framework to solar ingots and wafers.
- Power Minister chairs Ministerial Meet with states and UTs focusing on energy security.
- India-Africa Strategic Partnership Meet convened.
- India commissions 8,000 tpa green hydrogen capacity up to February 2026.

NEWS

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- POWERGRID approves Rs7.05 billion to procure transformers, reactors.
- UP gets Rs203 billion investment proposals across RE, data centres.
- CEA notifies draft CEA (Installation and Operation of Meters) Amendment Regulations, 2026.
- Tamil Nadu gets approval for 1,500 MWh BESS projects.
- GAIL approves 178.2 MW greenfield wind project in Maharashtra.
- Rs60 billion to be invested for new substations in Andhra Pradesh.

INTERNATIONAL 73

- India explores grid connectivity with Sri Lanka to expand cross-border power trade.
- KEC International secures 380 kV transmission line and substation order in Saudi Arabia.

ONE STRUCTURE A MILLION POSSIBILITIES

BEHIND EVERY ILLUMINATED HOME, FACTORY, AND CITY SKYLINE
LIES RESILIENT TRANSMISSION INFRASTRUCTURE



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TRANSPORT**



**DIGITAL
CLASSROOMS**



HOSPITALS



INDUSTRY



**RURAL
CONNECTIVITY**



**SMART
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- Waaree Renewable Technologies secures 300 MWac/420 MWp solar EPC order.
- Saatvik Green Energy launches energy storage arm.
- Bajel, NIIF, AnantGrid collaborate for transmission opportunities in India.
- Zelestra India rebrands as Resolven, to target execution of over 1.5 GW per year.
- New Era Cleantech launches Rs200 billion coal gasification and carbon capture project in Maharashtra.



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ADVISORY COMMITTEE

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Editor

Charu Mathur

Statistics & Data Incharge

Ninad Ranade

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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

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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