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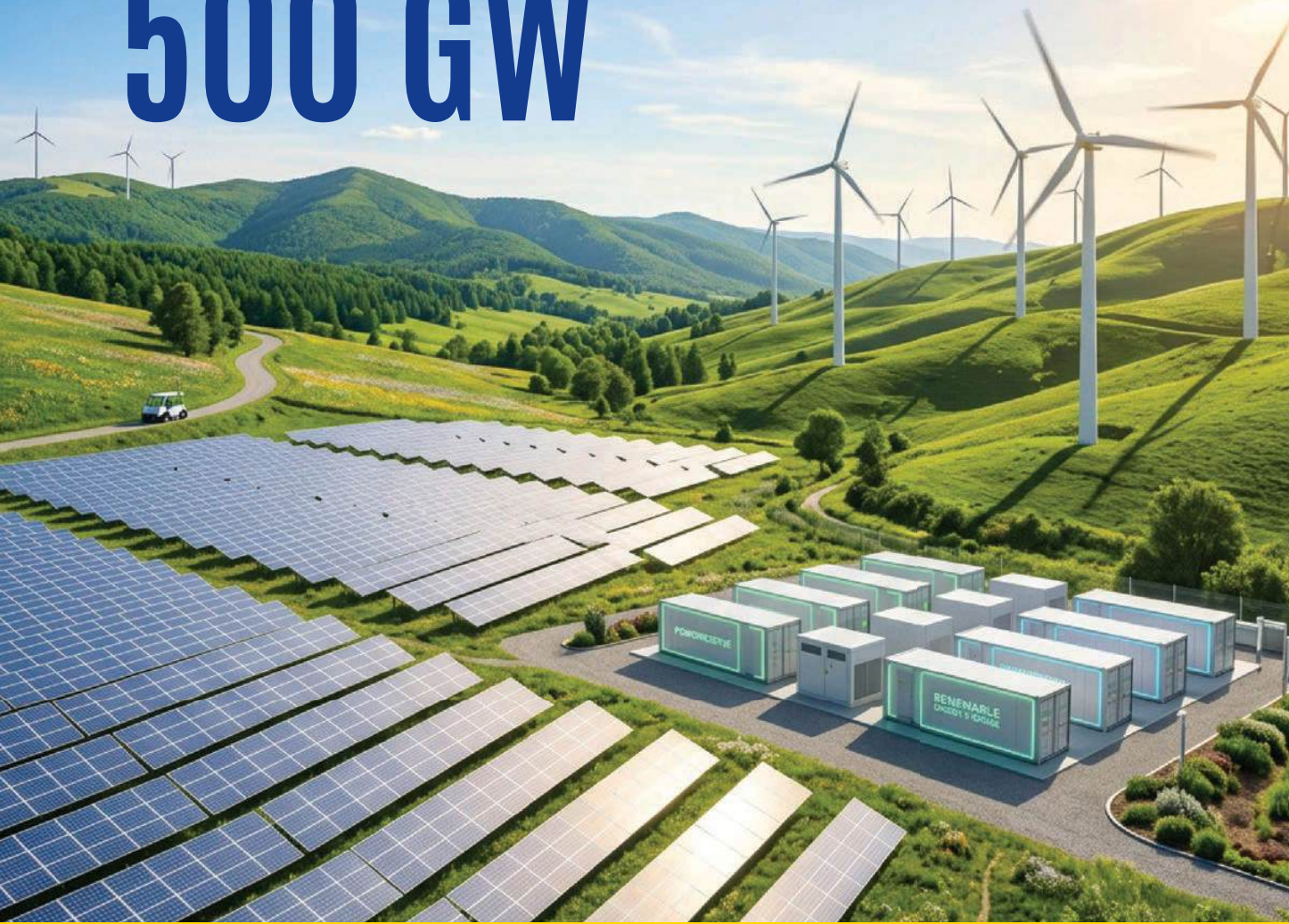
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NEW ENERGIES RENEWING THE PATH TO 500 GW



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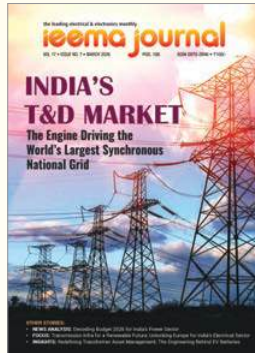
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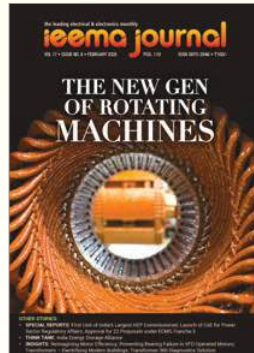
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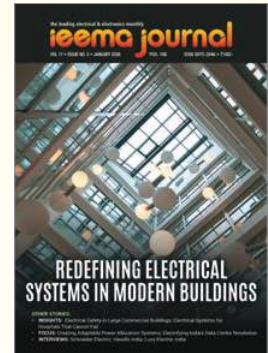
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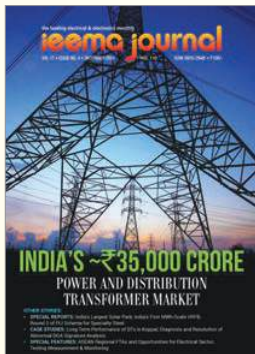
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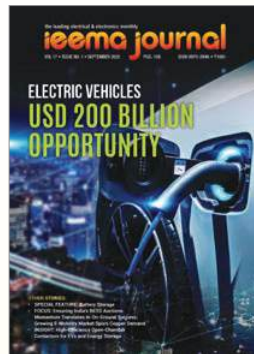
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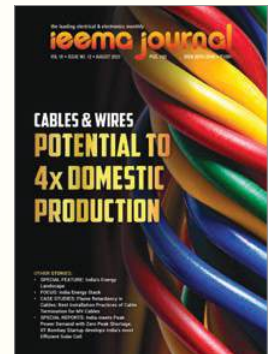
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COVER STORY

NEW ENERGIES: Building with Scale, Speed & Purpose 12

India now ranks third globally in renewable energy installed capacity. The country's new energies sector is gradually transitioning towards a more integrated energy ecosystem, with increasing emphasis on energy storage, green hydrogen, and electric mobility to support long-term renewable integration. Aligning infrastructure, financing, and policy with the pace of capacity addition will not only help India achieve its 500 GW target but also emerge as a global leader in clean energy systems and manufacturing. This Cover Story is a deep dive into how India, while adding capacity, can also build a reliable clean energy system with scale, speed, and purpose.



SPECIAL FEATURE

West Asia Crisis: Recommendations for Managing India's Electrical Economy 34



Domestic manufacturing is seeing the ripple effects of the West Asia conflict, affecting international trade and geopolitical balance. Like all sectors, the Indian electrical equipment manufacturing industry is also facing unprecedented challenges. This feature details key issues that need urgent redressal and IEEMA's recommendations to the government with key action points to ensure continuity of project execution and avoid disruption in power infrastructure development.

SPECIAL REPORTS

India Ranks Third Globally in RE Installed Capacity 30

India has achieved a total non-fossil capacity addition of 55.3 GW in FY2025-26, with the country reaching its highest-ever renewable energy share in electricity generation in July 2025.



India Adds Record 6.05 GW Wind Energy in 2025-26 38

The country's cumulative installed wind power capacity has crossed 56 GW, with the wind sector recording a jump of ~46 percent over 2024-25.

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FOCUS**Energy Storage: Enabling Firm and Dispatchable Renewable Energy 40**

This paper explores how battery energy storage underpins firm renewable power through technical innovation, economic value, and supportive policy frameworks.

The Future of EVs: Solid State Rechargeable Batteries with Silicon-Based Anodes 68

SSBs are likely to replace conventional energy storage systems in future as they replace inflammable liquid electrolytes with solid materials, writes **Rathindra Nath Biswas, Dy. General Manager, In-Charge, Head (Retired), MECON, Durgapur.**

INSIGHT**The Complex Chemistry and Engineering Behind EV Batteries – Part-2 56**

SV Varadarajan, Retired Technical Director, M. N. Dastur and Company (Pvt) Ltd, Chennai, focuses on the basic types of battery cells, discovery of Lithium in the early 19th century, importance of electrolyte in Li-ion battery, and popular types of Li-ion batteries used in today's EV.

IEEMA ACTIVITIES**IEEMA Launches ELECRAMA 2027 77****IEEMA Delegation in Europe; IEEMA Pavilion at Hannover Messe 79****Launch of Batch-II of Certification Course on Reliability Engineering for Electrical Professionals at IIT Kharagpur 84****POLICY UPDATES 86**

- Cabinet approves Rs26,069.50 crore investment proposal for constructing 1,720 MW Kamala HEP in Arunachal Pradesh.
- Insurance surety bonds (ISBs) issued as alternative to bank guarantee/bid security

across power procurement frameworks.

- India, Bhutan establish enhanced bilateral institutional framework mechanism to focus on non-hydro energy, cross-border transmission.
- CEA outlines roadmap to reduce the use of SF₆ gas in GIS in Indian grid.
- Draft Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Amendment Regulations 2026 introduced.
- Government notifies Startup India Fund of Funds 2.0 with Rs10,000 crore corpus to mobilise capital for startups.
- Cabinet approves Rs14,105.83 crore investment proposal for construction of 1,200 MW Kalai-II HEPP in Anjaw, Arunachal Pradesh.

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- Power Ministry issues directions to imported coal-based gencos.
- NGEL commissions 150 MW solar project in Rajasthan.
- GAIL plans Rs32.95 billion 600 MW solar, BESS project in UP.
- THDC commissions 250 MW unit of Tehri PSP.
- CCI approves Torrent Power's acquisition of Nabha Power.
- MNRE approves 500 MW RE pilot for CfD programme.
- POWERGRID secures bid for transmission project under TBCB.
- NTPC Green Energy commissions 50.7 MW renewable capacity in Gujarat.
- UERC grants post-facto approval for Rs4.23 billion RDSS works.
- Andhra Pradesh plans 3,000 MWh BESS.

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- ADB launches USD 25 million facility to support ASEAN power grid integration.
- NTPC signs MoU with France's EDF to explore cooperation in nuclear power.
- TotalEnergies and Masdar set up JV to consolidate 9 GW of RE assets across Asia.
- Sterling & Wilson RE issues USD 34 million guarantee for South Africa subsidiary.
- NLC India, KfW sign EUR 100 million loan agreement for solar, BESS projects.

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- Avaada to invest Rs220 billion for solar, BESS, PSP expansion.
- Waaree subsidiary commissions 3 GW solar module manufacturing facility in Gujarat.

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Building Connections

- Adani Power incorporates subsidiary for nuclear power business.
- SWREL secures 875 MW EPC solar contract from Coal India.
- H.G. Infra secures Rs5.19 billion order for Mirzapur thermal project.
- ANDRITZ secures order from Torrent Power for 3,000 MW Saidongar PSP.
- Vikran Engineering secures Rs5.31 billion power distribution contracts in Maharashtra.
- Ganesh Green Bharat secures Rs4.3 billion order for 630 Wp TOPCon modules.
- Thermax secures order worth Rs16 billion for ultra-supercritical thermal power project.
- ACME Solar commissions over 2 GWh of BESS capacity in Rajasthan.
- Evren secures about USD 600 million for FDRE hybrid project.
- SAEL commissions 600 MW solar project in Andhra Pradesh.
- Welspun New Energy signs PPA with SECI for solar + BESS project.

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