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# **CABLES & WIRES POTENTIAL TO 4x DOMESTIC PRODUCTION**

## **OTHER STORIES:**

- **SPECIAL FEATURE:** India's Energy Landscape
- **FOCUS:** India Energy Stack
- **CASE STUDIES:** Flame Retardancy in Cables; Best Installation Practices of Cable Termination for MV Cables
- **SPECIAL REPORTS:** India meets Peak Power Demand with Zero Peak Shortage; IIT Bombay Startup develops India's most Efficient Solar Cell



## Pinpoint LT Cable Faults Faster. Smarter. Safer.



### Introducing M-Thump5 - Megger's Next-gen Cable Fault Locator.

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safety, and speed.

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M-Thump5



Scan the QR Code to  
book your free demo  
today!



### M-Thump5

Portable fault location system for LT / LV cables

**Power outages are costly. Downtime is frustrating.** The **M-Thump5** is designed to address these challenges by combining advanced fault location techniques-such as Arc Reflection and Current Impulse-with an intuitive touchscreen interface.

- ARM/Multishot, Current Impulse pre-location up to 5 kV
- 3 fault location technologies for branched LV cables
- 9 fault locating technologies in one box
- Burn ARM pre-location up to 5 kV
- Burn Current up to 500 mA

M-Thump5. When downtime isn't an option.



## Powering Safety, Protecting Lives

*Elevate electrical safety, with our offerings*

# SAFETY FIRST



### Product Offerings

- Cable Accessories
- Cable Management Solutions
- ABC Accessories
- Enclosures
- Transformers
- Covered Conductors
- Surge Arresters
- Electrical Safety
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- Solar Products
- EV & BESS Bus Bars

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- Adheres to IS/IEC 61537 & conforms to Seismic Zone 4 standards
- Fire-resistant, corrosion-proof, and load-tested
- Available in various materials and finishes (FS, FT, SS, G)
- Seamlessly integrates with other OBO systems for end-to-end protection



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# Contents

Volume 16 • Issue No. 12 • August 2025

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Official Organ of Indian Electrical & Electronics  
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## From the President's Desk Samvaad

11  
12**For suggestions and feedback, please write  
to us on [editor.ieemajournal@ieema.org](mailto:editor.ieemajournal@ieema.org)**

## COVER STORY

### Cables & Wires:

### Potential to 4x Domestic Production 17

With the aspired global demand for cables and wires to exceed US\$ 400 billion by 2034, India's opportunity stands massive: aiming for domestic production to reach ~US\$ 34 billion at a ~14 percent CAGR and domestic consumption ~US\$ 29 billion at a ~13 percent CAGR by 2034. This story delves into industry growth drivers, the domestic market and its potential, India's increasing share in the global export pie, sectoral trends shaping the future of the industry, India's vision of being a global leader in innovation through R&D and long-term capacity building, industry challenges and recommendations, and more...



## THINK TANK



**"India is rising as a  
manufacturing and export  
hub for high-quality  
transmission solutions."**

- Reshu Madan, Chairman,  
IEEMA Cables Division

36

## SPECIAL FEATURE

### India's Energy Landscape

#### Powering Growth with Sustainable Energy

Over the past decade, India's power sector has seen robust expansion driven by rising demand, infrastructure development, and strong policy support for both conventional and renewable energy sources. Electricity generation has increased from 1,168 BU in 2015-16 to an estimated 1,824 BU in 2024-25. Similarly, total installed capacity has grown from 305 GW in 2015-16 to a projected 475 GW in 2024-25. This report explores the progress and how India's energy landscape is powering growth with sustainable energy.

42

## FOCUS

### India Energy Stack

54

**Pioneering a Digital Revolution in the Power Sector**  
This article by Karthik Akkenaguntla explores the India Energy Stack in depth, outlining its objectives and impact across the entire electricity value chain while highlighting its goals to enhance grid stability, empower consumers, and advance India's net-zero ambitions.

### Copper's Key Role in Cables

49

The use and role of copper in cables is significant for efficient clean energy transition. IEEMA Journal's regular column from The International Copper Association India indicates the red metal's position, its movement, direction, and outlook in the cables industry.

## INTERACTION

**"The winding wire market is expected to  
grow at a CAGR of 8-10%."**

53

- Shailesh Rath, Vice Chairman, IEEMA Winding  
Wire Division



POLYCAB

## WHAT RUNS BENEATH, PROTECTS BEYOND. POLYCAB GREEN WIRE

### FEATURES :



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## SPECIAL REPORTS

### India meets Peak Power Demand of 241 GW with Zero Peak Shortage 14

India successfully met peak power demand of 241 GW on June 9, 2025, with zero peak shortage, Hon'ble Union Power Minister Shri Manohar Lal recently announced.

### IIT Bombay Startup develops India's Most Efficient Solar Cell 64

Union Minister for New and Renewable Energy, Pralhad Joshi, visited the lab at the IIT Bombay campus, calling the newly developed solar cell technology a 'gamechanger'.

### India's First Off-Grid Green Hydrogen Pilot Plant 78

Adani New Industries has announced commissioning of the country's first off-grid green hydrogen pilot plant of 5 MW capacity.

## CASE STUDIES

### Best Installation Practices of Cable Termination for Medium Voltage Cables 66

### Flame Retardancy in Cables: Exploring Safer Alternatives Between PVC FRLS & LSZH 60

### Enhancing Cable System Integrity: Root Cause Analysis of Joint Failures 72

## IEEMA EVENTS

### T&D Conclave 2025 74



The 17<sup>th</sup> T&D Conclave brought together more than 300 industry leaders for a dynamic exchange of ideas, advocacy, and collaboration across the T&D ecosystem.

### Electrical Fire Safety Conclave, Kolkata 76

IEEMA held its fifth and final leg of the Electrical Fire Safety Conclave 2025, bringing together critical conversations for safeguarding lives and assets through improved electrical safety standards.

## IEEMA ACTIVITIES

### Strengthening the Regional Supply and Value Chain Development for Electrical Equipment in the SASEC Subregion 79

### Young Entrepreneurs' Programme 2025 80

### Meeting with Shri Manoj Kumar Singh, IAS, Secretary, Department of Energy, Government of Bihar 81

### Meeting with Shri Rahul Kumar, IAS, Managing Director, North Bihar Power Distribution Company Ltd 81

### Webinar on 'Empowering MSMEs: Growth, Export & Quality Excellence' 82

### Awareness Webinar on Quality Control Orders (QCOs) 83

## POLICY UPDATES 85

- MNRE launches Rs2.3 crore innovative projects start-up challenge.
- MNRE notifies revised guidelines for WtE projects.
- CEA and IIT Roorkee sign MoU for power sector research and capacity building.
- City Accelerator Programme launched.
- India opens doors to global EV giants with portal launch under SPMEPCI.
- India achieves 4,000% solar capacity growth.
- Shri Manohar Lal launches ADEETIE scheme.
- Approval to NTPC for investing in NTPC Renewable Energy and its subsidiaries.
- India rolls out first-ever e-truck incentive scheme under green mobility vision.
- SECI crosses 60 GW of PSAs for RE projects.

## NEWS

### NATIONAL 89

- MoP notifies method for allocating coal linkages under Revised SHAKTI Policy.
- 435 MW Gorbea solar power project inaugurated.
- RECPDCL signs PIA agreement for smart metering rollout in Gujarat under RDSS.
- NLC India approves Rs16.30 billion investment in RE subsidiary.
- THDC commissions Unit-II of 1,000 MW Tehri variable speed PSP.
- ADB and GCF launch US\$ 200 million green financing programme in India.
- IFC commits US\$ 55 million to IndiGrid for BESS.
- Bihar approves Renewable Energy Policy 2025.



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



**400kV S/C Tension/Dead  
End Y-Pole**  
PCIL (Power Grid  
Corporation of India Ltd.),  
Lucknow



**220kV Double Circuit  
Cable Termination Pole**  
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Electricity Transmission  
Company Ltd.), Mumbai



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## CONTENTS

- NTPC REL signs MoU with GEDA to develop 300 MW RE capacity.
- NLCIL and APDCL sign agreement for 500 MW solar project in Assam.
- RVPNL approves Rs267.73 billion transmission projects to support green energy.

## INTERNATIONAL 90

- MP signs pact for Rs30 billion solar cell manufacturing project in UAE.
- World Bank approves US\$ 1.5 billion loan to boost South Africa's energy reforms.
- ACWA Power, Badeel, and SAPCO to develop 15 GW of clean energy projects in Saudi Arabia.

## CORPORATE 91

- L&T establishes arm for green hydrogen projects.
- TPREL secures BESPA for 120 MWh project.
- Quality Power and Yash Highvoltage announce acquisition of Sukrut Electric.
- Torrent Power to invest Rs500 billion to expand renewable and grid infrastructure.
- SAEL to set up Rs82 billion solar manufacturing facility in Greater Noida.
- JSW Energy signs BESPA for 250 MW BESS project in Rajasthan.

## PRODUCT SHOWCASE 92

### Digital Insulation Tester

## POWER STATISTICS 93

- Global Scenario 93
- Indian Scenario 94

## IEEMA DATABASE 95

- Basic Prices and Indices 95
- Production Statistics 96

## AD INDEX 97

## SHOCKS & SPARKS 98

### Famous Feasts – By RG Keswani

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