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# ieema journal

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## From the President's Desk

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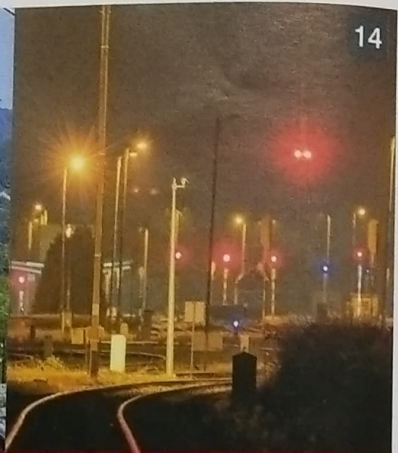
## Samvaad

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## Cover story

### Powering Indian Railways

Indian Railways has massive plans to achieve 'complete electrification' of a 69,182-route kilometre network by December 2023. Despite the pandemic, the transport lifeline of the nation has managed to achieve the milestone of covering 6,015 route kilometre (RKM) in 2020-21.



## Complete Electrification

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## Power sector updates

- Holistic Ecosystem for Semiconductors
- Policy to Enhance Sale of Electric Vehicles
- Achievement of Renewable Energy Targets

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## Policy updates

NITI Aayog and TIFAC Launch Report on Future Penetration of Electric Two-Wheelers in the Indian Market



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## Standardisation

### Distribution Transformers Standardization

Generally standardization makes every one's life easy in the world. It means Maintenance simplifies, Costs reduced, Productivity increased, Production stabilized and availability ensured. In Distribution Transformers.

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## Guest article

### Electrical safety tips for the monsoon season

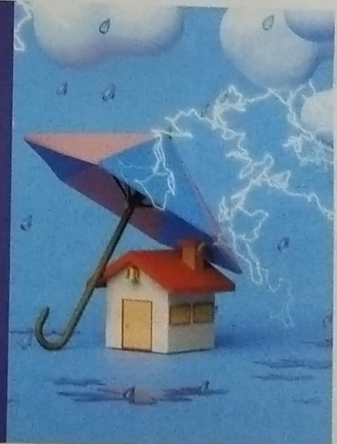
Monsoon is not just a word, but a metaphor for hope, peace, celebration, adventure etc. in various parts of India. It is generally expected to last from June to September.

The impact of monsoon on the local weather is different from place to place. In some places there is just

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GuestArticle

## Electrical Safety Tips for the Monsoon Season



For suggestions and feedback please write to us on [shalini.singh@ieema.org](mailto:shalini.singh@ieema.org)

a likelihood of having a little more or less rain. In other places, quasi semi-deserts are turned into vivid green grasslands where all sorts of plants and crops can flourish.

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### Insight

#### Challenges Pertaining to Distribution Transformer

Distribution Transformers (DTs) are key assets for any distribution network.

Their reliable and efficient operation can result in long-term benefits for the Indian power distribution sector and all the stakeholders- Manufacturer, Utility, Standardization bodies, Regulator, Consumer and Govt. agencies.

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### Case Study

#### Energy Conservation: Case study of a railway station

The Indian Railways network is one of world's largest, spread over 115,000 track kilometers (66,030 route km) connected with 8,500 stations, serving people since 1853. In 2014-15, the Indian Railways transported 8.39 billion passengers, that is, more than 23 million passengers a day. In addition, it transported 1050.18 million tonnes of freight across the country. Indian Railways consumed about 18.25 billion kWh electricity in 2014-15 which is 1.8 percent of the country's total electricity consumption

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### Energy Conservation Case Study of a Railway Station



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Insight

### Challenges pertaining to Distribution Transformer



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### Event

#### Cable & Wire Fair 2022

After a three-day run that threw light on the wire, cable and allied industries, Cable & Wire Fair 2022 concluded successfully

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### Expert speak

#### High Performance Natural Ester Based Dielectric Fluids: Improved Oxidation Stability

Mineral oil based dielectric fluids are the major product category in providing stable electrical properties but there are some disadvantages from an ecological and sustainability point of view and fire safety.

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### IEEMA Update

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### IEEMA Event

#### IEEMA participation in Hannover Messe 2022



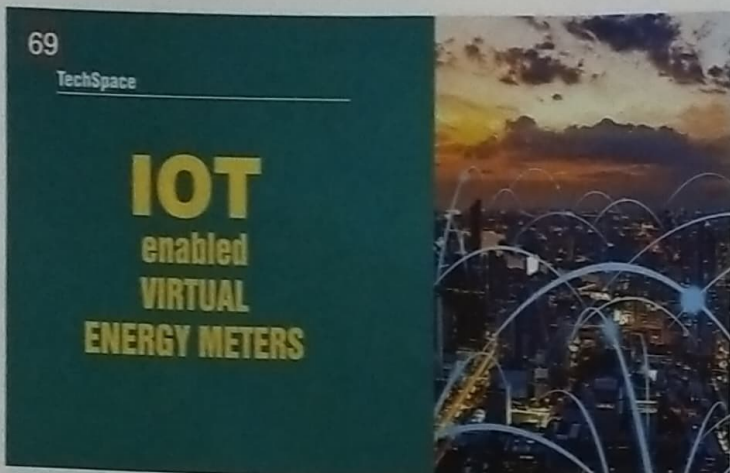
The participation had IEEMA Members as exhibitors at the IEEMA Pavilion and delegation of Young@ieema members. The event was held from 30 May to 2 June 2022.

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### In focus

#### Harnessing Green Hydrogen: Opportunities for Deep Decarbonisation in India

NITI Aayog and Rocky Mountain Institute (RMI) co-author the report. This report aspires to serve as one of the key knowledge bases for the benefit of India's Green Hydrogen Policy discourse and private sector investment decisions.



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TechSpace

# IOT enabled VIRTUAL ENERGY METERS

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## Tech Space

### IOT Enabled Virtual Energy Meters

With the advent of information technology, the microprocessor based energy meters (which are three phase numeric meters) have been provided at the electrical installations of HT/LT consumers and transmission & distribution utilities. These meters generally work as billing meters. However, these meters are physical in nature and therefore location specific.

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## IEEMA Database

Basic Prices & Indices  
Production Statistics

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## News

## National News

- India's largest floating solar power project commissioned
- RINL Organizes Seminar on "Increasing Steel Consumption: Steel Usage way Forward" at Visakhapatnam Steel Plant

## International News

- IESA signs MoU with FBICRC
- Bosch to invest over Rs 200 crore in next 5 years in India

## Corporate News

- Adani Power inks SPAs to acquire 100% equity in two infra companies
- TotalEnergies appointed as Automovill's exclusive lubricants partner in India

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## Sparks Sans Shocks

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