the leading electrical & electronics monthly

OUMO

Volume 14 leaue No. 05 January 2023 CIN U99999MH1979GAP914629 Official Organ of Indian Electrical & Electronics Manufacturers' Association Member: The Indian Newspaper Society

From the President's Desk

Samvaad

Cover Story

How Electronics Manufacturing Industry can be the Next Big Thing in India

electronics manufacturing industry plays a crucial role in the Indian economy, producing a wide range of products that are essential to modern life, from smartphones and laptops to industrial control systems and military equipment. electronics manufacturing industry in India has experienced rapid growth in recent years, driven by increasing demand for electronic goods and the availability of skilled labor at relatively lower costs,



ELECRAMA Promotion

IEEMA organises Road Show for the 15th edition of **ELECRAMA** in Chennal and Jaipur





30

IEEMA Event

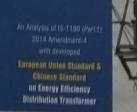
15th IEEMA T&D Conclave



The 15th IEEMA T&D Conclave held on December 16, 2022 at Hotel Lalit, Delhi was attended by more than 250 delegates. The one day event witnessed the presence of eminent personalities like Mr SK Mishra, Director (Power System) Solar Energy Corporation of India, Mr Ramveer Tanwar (Pondman), an environmentalist, Mr Sudhanshu Mani former IRSME Officer, Integral Coach Factory, and the innovator of Vande Bharat Express, Mr Santosh Taneja, Founder, Samkalp IAS coaching Center and Rupamanjari Ghosh, former Vice Chancellor, Shiv Nadar University.

In Depth

An Analysis of IS-1180 (Part 1) 2014 Amendment-4 with developed European Union Standard & Chinese Standard on Energy **Efficiency Distribution** Transformer





In this article author tries to compare & analyse the standard maintained by different advance countries for manufacturing of distribution transformers for Tier/ Level-1 & 2. More particularly here author compare all specified ratings of transformer minutely among European Standard, Bureau of Indian Standard & Chinese Standard & presented in graphical form after converting to 50% & 100% loss.

For suggestions and feedback please write to us on shalini.singh@leema.org

42

In Focus

Causes of Electrical Fires in Residential & Commercial Buildings & Suggested Measures for Prevention

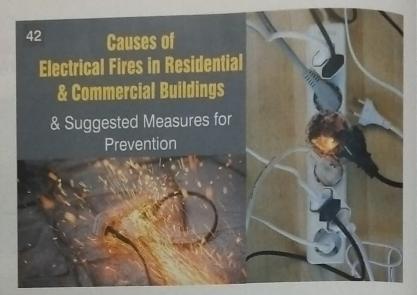
Every second day starts with the news of electrical fires in residential or commercial buildings. This forces us to ponder over the reasons of such electrical fires which lead to loss of lives and assets. This is because most of the people do not take electrical safety seriously and being neglected. There is acute need to make people aware about the importance of electrical safety and selection of proper equipments & accessories for electrical network in the residential and commercial buildings.



Ministry Update

Smart Meter Data for Innovative Usage

o facilitate large scale gridconnected solar power projects, a scheme for "Development of Solar Parks and Ultra Mega Solar Power Projects" is under implementation with a target capacity of 40 GW capacity by March 2024. Solar Parks provide solar power developers with a plug and play model.





Event

2ND AIPEM ALL INDIA POWER ENGINEERS' MEET (AIPEM - 2022)

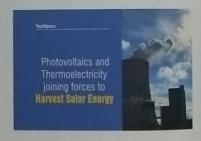


All India Power Engineers' Group (SPARK.... Ignited to share) organised its iconic event All India Power Engineers' Meet (AIPEM-2022) on 27th Nov. 2022 in collaboration with SIT (Silicon Institute of Technology) at Bhubaneswar under the theme.

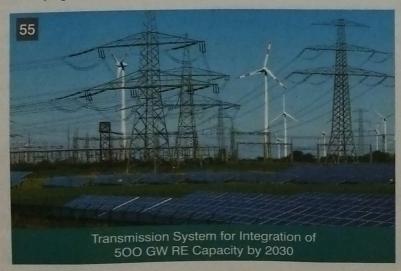


Tech Space

Photovoltaics and Thermoelectricity joining forces to Harvest Solar Energy



Hybrid power devices combination between different technologies to produce power. Hybrid power plants often contain a renewable energy component such as PV that is balanced via a second form of generation such as wind power, thermoelectric power, solar thermal power generator or storage system like battery storage or solar thermal storage. Thermoelectric are semiconductor generators devices that have no moving parts and convert heat directly into electricity. When combined with thermal storage it can provide electricity round the clock at \$0.06 per kilowatt-hour and could achieve 16% efficiency from concentrated sunlight. PV cells can convert the UV and visible regions of the solar spectrum and the thermoelectric modules use the infrared region to electrical energy directly.



78

Events and Eventualities

Practical field technical queries on transformer's abnormal situation (Part-21)

LAST FEW MONTHS, the CASE STUDIES on TRANSFORMER's Abnormal situation was getting published under the section of EVENT and EVENTUAL series. Readers especially from field units on accepting this series.

86

Power Scenario

Global Scenario Indian Scenario

88

IEEMA Database

Basic Prices & Indices **Production Statistics**

90

International News

- AMPYR, Shell Energy to jointly build 500 MW BESS in Australia
- ADB assists VinFast with \$135 million to support e-mobility in Vietnam

92

National News

- CEA Revises Transmission Capacity Targets for FY23
- EESL Smart Meter Installed Base Crosses 30-Lakh Mark, 47 Lakh More Planned

94

Corporate News

- Mahindra. Statiq to work together on EV infra and tech integration projects
- Ola Electric ups the ante on e-scooter production capacity

96

ERDA

99

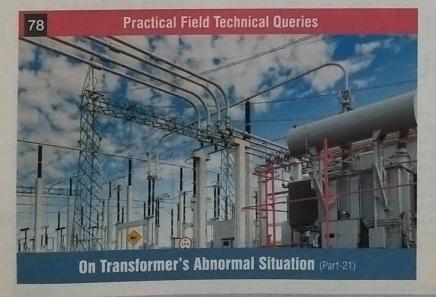
Product Showcase

100

Advt Index

102

Sparks Sans Shocks



Editorial Board

Advisory Committee

Founder Chairman Mr Imteyaz Siddiqui

Chairman Rohit Pathak

Members Mr Rohit Pathak Mr Ashish Tandon Mr Samir Kali Mr Shashi Amin Mr Sandeep Zanzaria Ms Sonal Gariba

Ms Charu Mathur

Mr Rajesh Narayan Mr Mustafa Wajid

Ms Shalini Singh Advertisement Incharge

Statistics & Data Incharge Mr Ninad Ranade

Circulation Incharge

Ms Chitra Tamhankar

Designed by: Reflections Processed at: India Printing Works

Ms Pooja Tawte

Read Office - Mumbai

501, Kakad Chambers, 132, Dr A Besant Road Worli, Mumbai 400 018. Phones: +91(0) 22 24930532 / 6528

Fax: +91(0) 22 2493 2705 Email: pooja.tawte@ieema.org

Corporate Office - New Delhi

Rishvamook Building, First floor, 85 A, Panchkuian Road, New Delhi 110001.Phones: +91 (0) 11-23363013, 14, 16

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

Branch Office - Bengaluru

204, Swiss Complex, 33, Race Course Road, Bengaluru 560 001. Phones: +91 (0) 80 2220 1316 / 1318

Fax: +91 (0) 80 220 1317 Email: bangalore@ieema.org

Branch Office - Kolkata

503 A. Oswal Chambers. 2, Church Lane, Kolkata 700 001. Phones: +91 (0) 33 2213 1326 Fax: +91 (0) 33 2213 1326 Email: kolkata@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.

Guwahati (Assam) - Nilankha Chaliha Email: nilankha.chaliha@ieema.org Mobile: +91 9706389965

Chandigarh (Punjab & Haryana) Rainish Kaushik

Email: rajnish.kaushik@ieema.org Mobile: +91 9991110246

Jaipur (Rajasthan)

Email: devesh.vyas@ieema.org Mobile: +91 8955093854

Lucknow (U.P. and Uttarakhand) Anuj Kumar Chaturvedi Email: anuj.chaturvedi@ieema.org Mobile: +91 9839603195

Srinagar (Jammu & Kashmir) Mohammad Irfan Parray Email: irfan.parray@ieema.org

Mobile: +91 9858455509

For subscription queries write to: chitra.tamhankar@ieema.org

Edited, Printed and published by Ms. Charu Mathur on behalf of Indian Electrical and Electronics Manufacturers' Association, and Printed at India Printing Works. India Printing House, 42, C. D. Ambekar Road, Wadala, Mumbai 400 031 and Published at 501, Kakad Chambers, 132, Dr. Annie Besant Road, Worli, Mumbai 400 18.