

ieema journal

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METAMORPHOSIS

of the Capacitor Segment & Power Quality



TRENDS IN CAPACITORS

HANNOVER MESSE

INCOMPARABLE SILVER

Other Stories ...

34 Insight - Capacitors: Trends in Capacitors

52 IEEMA Events: Hannover Messe

93 Special Feature: Incomparable Silver



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21st June, 2024

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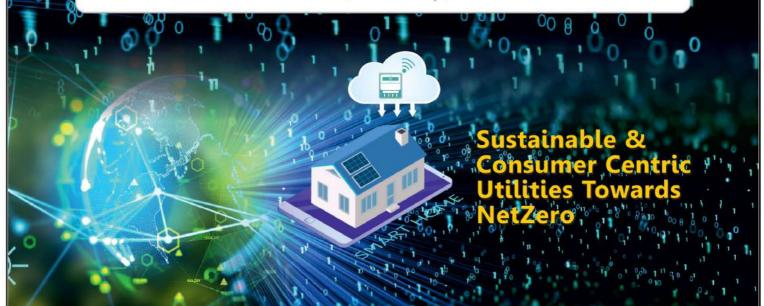


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Established in 1948

CONTENTS

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8

From the President's Desk



Samvaad



Cover Story

Metamorphosis of the Power Capacitor Segment & Deep Diving into Power Quality Capacitors and power quality have an integral working relationship that is currently at the crossroads of a great transformation. The cover story including the Think Tank, Insight and Infocus sections, probes at the transformation.



In Focus: Capacitors

Design, Selection & Application of Detuning Reactors for Harmonic Rich Networks



34

Insight: Capacitors

Trends in Capacitors

The humble capacitor has remained the same over the past 275 years, a piece of dielectric between two metal electrodes. But over the period, there has been significant changes in the materials (basically the dielectric and electrodes), design and construction and manufacturing process as to keep pace with changing technological developments



In Focus: Power Quality

Passive Filters for Harmonic Mitigation



The technical paper details the commonly used lists renewable power options, elaborates about single tuned filters, high pass harmonic filters and has a concluding note



Insight: Capacitors

Capacitors for Power Systems

Capacitors are used in number of places to serve various functions to improve power system quality and performance, by mitigation.

Design, Selection & Application of **Detuning Reactors for Harmonic Rich Networks**

For suggestions and feedback please write to us on editor.ieemajournal@ieema.org

46

Insight: Power Quality

Emerging Energy Landscape and its Impact on Power Quality

Power quality is an important element of the power industry today. In this column, the author elucidates the emerging energy landscape and its bearing upon the quality of power



Insight: Power Quality

Power Quality Systems and Significance of Some Features



This feature provides insights into harmonic currents to find power quality solutions through passive and active harmonic filters; high pass passive filters and notes important features for Power Quality Systems.



IEEMA Events

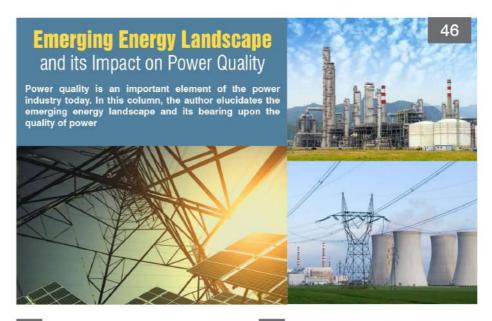
IEEMA at Hannover Messe 2024

April 22 – 26, 2024, Hannover, Germany

IEEMA Conducts Workshop at Lucknow

IEEMA meets KESCO May 17, 2024, KESCO Headquarters

IEEMA Workshop on Best Practices for Underground Power Cable & Cable System May 17, 2024, Chandigarh



57

QNA

Technical issues and practical problems which arise on the field with solutions are published regularly in the QNA Section for the benefit of our readers, including other field engineers and practitioners facing similar circumstances. We urge our esteemed readers to share more queries, suggestions and feedback.



Case Study

Importance of Lugs and Ferrules for Power Cables Network



This paper authored by S. Rama Prasath covers the important role played by lugs and ferrules used for inter-connecting cable and connecting cables to other power equipment. Though it is a very insignificant component in the cable network, its reliability is of utmost important.

67

In Focus: EV

Safety of Electric Vehicles



R. P. Deshpande addresses concerns about fires with EVs raised by Global Governments, EV Manufacturers and the public in general

70



Extension of Quality Control Orders on Copper, Copper Products, and LV Switchgear

QCOs are regulatory measures introduced by the government to establish quality standards for specific products or product categories. These orders are designed to ensure that products meet certain prescribed quality, safety, and performance requirements before they can be manufactured, imported, stored, or sold in the country. The main objective of QCOs.

90

Case Study – Power Quality

Emerging Power Quality Challenges Due to Integration of Renewables



93

Special Feature

SILVER The Indispensable Cool in an Electric Scenario



The increasing adoption of renewable energy sources such as solar and wind power has brought about many positive impacts on the environment and the reduction of greenhouse gas emissions.

96

Insight: Power Quality

Pollution of Power Systems by Power Quality Issues & their Mitigation

This feature traces the origin of the term 'Power Quality', its related issues and solutions

104

Advertorial: ERDA

105

Impact News



National News

 Thermal Power Plants have 68% of Normative Coal Stocks, Shows Data

Global Events

 U.S. Department of Energy Announces Science Synthesis Prize Launch

Renewable Energy

 Solar Tops 50% of New U.S. Power Generation for the First Time in 2023;

Smart Meters

 Smart meter assessment launched in Puerto Rico,

112

Product Showcase

113

Advt Index

114

Power Scenario

- Global Scenario
- Indian Scenario

116

IEEMA Database

- Basic Prices & Indices
- Production Statistics

118

Shocks & Sparks

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