

the leading electrical & electronics monthly

ieema journal

Volume 9 Issue No. 01 September 2017 CIN U99999MH970GAP014320
Official Organ of Indian Electrical & Electronics Manufacturers' Association
Member: Audit Bureau of Circulation & The Indian Newspaper Society

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From the President's Desk

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Samvaad

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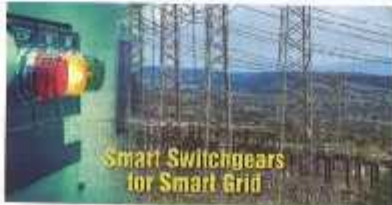
Appointments

This new space in the IEEMA Journal will incorporate recent important appointments in the power and related sectors

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Cover story

Smart Switchgears for Smart Grid



The power sector in India has been growing at a healthy pace supported by various policy initiatives by the government. Generation capacity has grown at a rate of over 10 percent over the past five years.

- Mr AS Subramanian, Chairman, IEEMA Switchgear MV and HV Division speaks about R&D, testing facilities and exports in the switchgear industry
- Mr Chintamani Vaze, Vice Chairman, IEEMA Switchgear, MV and HV Division talks about the challenges and the issues pertaining to the switchgear industry



IEEMA Workshop on Make in India and Level Playing Field

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Assessment

Ujwal DISCOM Assurance Yojana (UDAY)

India Ratings and Research's (Ind-Ra) initial assessment of Ujwal DISCOM Assurance Yojana (UDAY) scheme suggests that both financial outcome (gap between average cost of supply (ACS) and average revenue realisation (ARR)) and operational efficiency (decline in aggregate technical and commercial losses (AT&C)) have improved at an aggregate level.

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Expert speak

Disconnecting of photovoltaic Circuits



Typically in Photo Voltaic Installation energy from the sun is converted into

electricity when the photons present in sunlight are absorbed by silicon-based semiconductors (or other appropriate materials) that form the solar panel, thus creating a DC current of a few amps with voltage in the range of a few hundred millivolts.

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Guest article

Innovative Arc Extinguishing Mechanism Using Arc Accelerated Rapid Cooling Technology (AARC)



LV Circuit Breaker is a most vital link in low voltage distribution system. It's not only carry make & break the normal current but also protect the system and itself from Overload, Short Circuit, Ground Fault and Under Voltage also.

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Interview

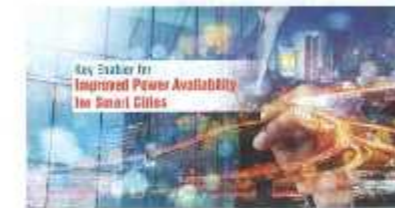
India still is a growing market and has huge potential both in terms of volume and value: Mr Palash Nandy

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In Depth

Reclosers:

Key enabler for improved power availability for smart cities



Due to increased proliferation of Electrical and Electronic equipments in all walks of personal and professional life, demand for outage free power has assumed very high significance.

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In focus

How Spark Gap SPD's are used for Testing and Selection of Voltage Protection Level & Follow Current



Due to increased proliferation of Electrical and Electronic equipments in all walks of personal and professional life, demand for outage free power has assumed very high significance. Feeder automation solutions, incorporating state of art technology based Reclosers, also allows for the utilization of existing overhead distribution lines beyond the traditional limits apart from offering benefits of reduced life cycle costs and lower maintenance demands.

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Innovation

Compact and resource-saving High Voltage substation with Hybrid (Mixed Technology) switchgear

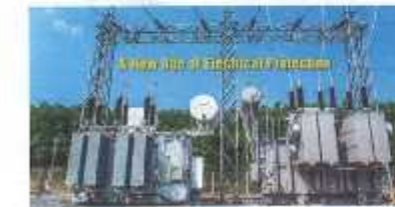


All substation designers today have to cope up with the ever increasing load demand in urban, semi-urban and industrial areas. Long project completion time and an ever increasing demand for availability of 24x7 reliable power

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Insight

A New Age of Electrical Protection



Over current protection using definite current relay, Definite time relay, Inverse time relay & setting for over current protection This paper describes a reliable protection system that includes Differential protection and advanced zone selection; the protection system is suitable for the protection of multiple Busbar arrangements.

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Interview

We are all set to launch a completely revamped range of technically superior range of Switchgears: Mr. Abhra Banerjee

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Solutions

How to Protect Electrical Equipment in Hospitals & Health Care Centers



Electrical & Electronic systems design in health care facility is an extraordinary challenge. Required technical knowledge exceeds typical residential and industrial construction.

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Solutions

Improving and Digitizing Rural Distribution Network Performance Today and For Tomorrow

Distribution company has to face a challenge of continuous improvisation and enhancement of network reliability in the rural terrain within a limited operating costs distributed over long lengths. Long line lengths, high fault frequency and the time taken to find-access-repair faults, result in poor performance. It's invariably a network which generates little income for the company.

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Opinion

Safety tips: protection of switchgear equipment from steady state & transient errors



Switchgears are the switching devices that form the backbone of modern electrical distribution systems. This article throws light on the basic protection measures that are insisted in several standards and good practices followed in industries in terms of operation.

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Requirements

Type Test of MV VCB

The type test of MV VCB has become very expensive as well as very exhaustive. On one side it is important to complete all tests within the allowed type tests validity period for quoting to client and on the other side new tests are getting added to the standard type test list. Also there is dilemma in selection of test lab.

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Tech Space

Mitigation of Effect of Switching and Re-ignition Surges during Abort Start of Motor



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Tech Space

A review of Wind Power Generating Schemes



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- Odisha govt to run all buildings on solar power by Nov-Dec

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