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From the President's Desk

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Samvaad

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Cover Story

Distribuelec-Buildelec 2022; A power packed exhibition and conference

- Home Minister & Power Minister UT of Puducherry Shri Thiru A Namassivayam invited industry to invest in Puducherry
- CEO summit to be held in Puducherry
- A 3-day Complete Power Distribution & Building Electrical Show held from May 25-27 at BIEC, Bengaluru.
- Total 94 exhibitors
- Around 7000 quality visitors
- 700 meetings at buyers sellers meet introduced at distribuELEC
- More than 300 delegates at Intellect Conference

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Causes and Mitigation

Distribution Transformer Failure: Causes And Mitigation

Government of India is committed towards 24x7 reliable and quality power to the consumers. Distribution Transformers/ DTs, being a major component of the Distribution network in providing uninterrupted power supply to the consumers, must be highly reliable so as to avoid unscheduled outages and wide area blackout.

Distribuelec-Buildelec 2022; A power packed exhibition and conference

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WIP Initiative

empower

In this 21st century, women empowerment and gender inclusivity are the topics of most of the industry conversations.

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Aspects

Know Your Transformer: Acronym, "KYT"



This Article captioned as "KNOW YOUR TRANSFORMER" has been attempted by the principal author on the analogy of KYC (Know Your Customer) by various banks.

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Exper tSpeak

Smart Green Distribution Transformer

For over a century, Distribution transformers around the world have been insulated with cellulose paper based products and mineral oil. These are low cost, easily available and exhibit excellent dielectric properties.

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Guest Article

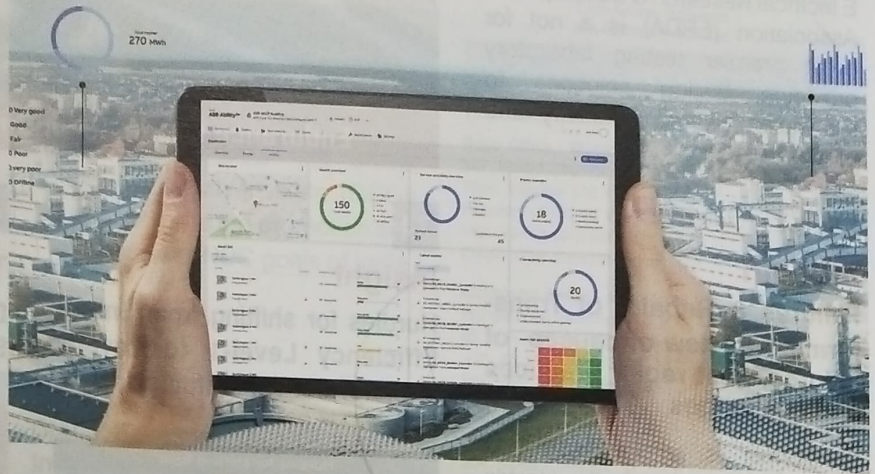
M2M Communications in the Power Sector



Say goodbye to complexity

Unlocking your site's potential with operational data

Right now, 42% of the world's energy is consumed by the buildings where we live and work. With demand expected to grow by 40% over the next 25 years, it confirms what operational managers already know: optimizing asset and power performance has to get smarter.



From asset vibrations to power quality, asset and energy managers are in constant dialog with complexity.

But the good news is your facility is already producing the intelligence you need to ensure a more efficient, sustainable future.

The trick? Finding the right energy and asset manager – a digital solution that simplifies data analysis and ensures faster, deeper insight is available.

Increase energy savings by 20%

One of the most important tools for removing the guesswork from maintenance is real-time performance data.

Clearly visualized energy data provides managers and operators reliable and useful information, creating more accurate benchmarking and often revealing patterns of wastage that have gone unnoticed.

Data visualization also makes it easy to take deep dives into asset performance.

Diagnostics, prognostics and condition indicators offer instant insight into component parameters and clear labels allow you to monitor the overall condition of assets.

These tools are also invaluable for efficient maintenance assignments, allowing you to concentrate your efforts where there is a higher probability of failure or outage and criticality.

Reduce maintenance costs up to 40%

Minimize expensive, unscheduled shutdowns with powerful analytics and alerts.

Access to clear asset and energy usage information is key to supporting more informed decisions. It allows you to schedule maintenance proactively, minimizing high-cost unplanned downtime and extending asset lifetimes by up to 15%.

When historic site data is combined with analytics, alerts become faster and smarter. It means operators are made aware of potential faults, such as temperatures rising above safe thresholds, before they become a problem.

And it's not just for emergencies. With continuous condition monitoring, you can track electro-mechanical performance in circuit breakers and monitor environmental parameters via sensors. That means no more regular downtime for manual inspections.

Empower your team

Keep operators safe with up-to-the-minute insights that lets them take appropriate action, safely.

Analytics and insights also reduce scheduling complexity by making field service assignments clear and easy. With access to activities and report tracking, the visual system streamlines efficiency for everyone.

Empowering you to unlock value

Data is undeniably powerful, but the key to sustainable change and improved results lies with operational managers like you.

By placing data at the foundation of your strategy, you can extract the intelligence you need to improve strategic decision making. That's where a solution like ABB Ability™ Energy and Asset Manager shines, giving you access to both data and actionable insights, in one intuitive dashboard.

With access to real-time asset health, events and alerts, maintenance prescription and documentation, it's truly never been easier to unlock your site's potential and power a more sustainable future.

Ready for a simpler way to see real results?

Talk to one of ABB's digital experts. Visit solutions.abb/abb-ability-electrification



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Guest Article

Effect of Long-Time Thermal Stresses upon the Endurance Capability of Cable Insulation Material

Electrical Research & Development Association (ERDA) is a not for profit premier testing laboratory providing testing solutions to the Indian electrical industry and utilities.

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InDepth

Failures & Repairs of Transformers Review of causes of failures, best repair practices and challenges

Transformer is an important and expensive equipment in the electric power system supply network and its proper functioning is vital to system operations.

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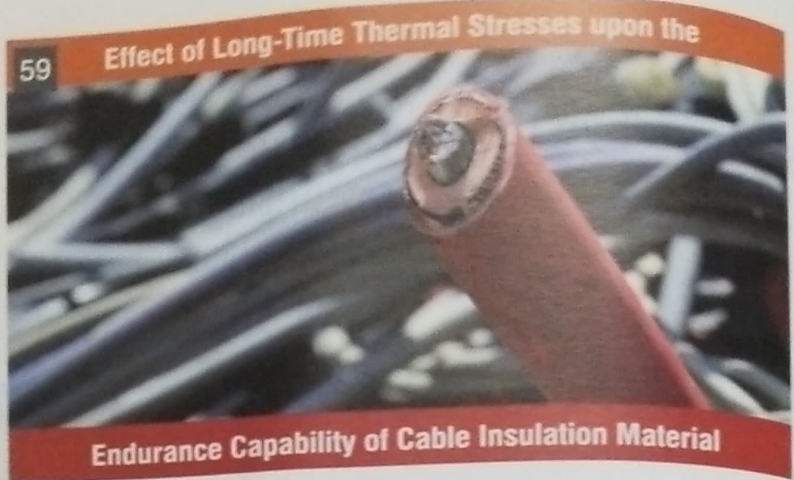
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A brief review of latest Technological Trends in Distribution Transformers

The day by day increasing demand of power and the steps taken to meet them without blackouts indicate towards the capacity.

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A brief review of latest **Technological Trends in Distribution Transformers**



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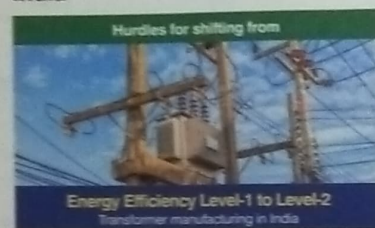
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Indian Standard for Distribution Transformers- Suggestions for Revision

One of the biggest challenges mankind is facing today is battling climate change.

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Technology

Drone Technology & Indian Start-ups



India is a country where entrepreneurship is always admired, appreciated, and encouraged. There are numerous types of business ideas that are flourishing in India today, one of the most promising ones being drone technology. Drone technology and startups are helping solve several real-world problems like high utility bills and poor security by bringing innovative solutions using drones.

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Events and Eventualities

Case Studies On Transformer's Abnormal Situation

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, have started asking queries on various subjects relating to the studies.

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International News

- Joint declaration of Intent on Indo – German Green Hydrogen Task Force signed Embassy REIT Becomes the Largest 'USGBC LEED Platinum v4.1 O+M' Certified Office Portfolio in India
- Shell plans hybrid solar+wind project to support Dutch grid
- Wärtsilä and Capwatt partner on green hydrogen blending project in Portugal
- South Africa approves first 100MW solar project under new regulation

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National News

- Shri Narayan Rane invites UAE to invest in India, calls for working together to enable MSMEs to explore new opportunities

- Power Ministry issues directions to all Gencos including Independent Power Producers (IPPs) for timely Import of Coal for blending purposes

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Corporate News

- GAIL awards contract to set up one of India's largest PEM based Green Hydrogen project
- EESL signs MoU with Global Green Growth Institute (GGGI) to accelerate the promotion and adoption of NDC goals of India

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Sparks Sans Shocks

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Practical Field Technical Queries



On Transformer's Abnormal Situation (Part-16)

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