

ECAM

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अध्यक्ष, इकॅम



सौर उर्जा योजनेत सहभागी होऊ या!

नमस्कार प्रिय सभासद बंधूनों/भगिनींनो,
दिनांक ०६.१२.२०२४ रोजी पश्चिम महाराष्ट्र विभागाची वार्षिक सभा हॉटेल लेक व्ह्यु येथे संपन्न झाली. सभेला सभासदांची उपस्थिती चांगली होती. सभेचे नियोजन अतिशय उत्कृष्टपणे करण्यात आले होते. त्यासाठी श्री. बाळासाहेब कदम व त्यांच्या संपूर्ण टीमचे अभिनंदन.

दिनांक १० व ११ डिसेंबर २०२४ रोजी पुणे येथील महालक्ष्मी लॉन्स येथे दोन दिवसाचे “ECAM Pune Expo” चे आयोजन करण्यात आले होते. त्यामध्ये एकंदर ६५ स्टॉलचे प्रदर्शन भरविण्यात आले होते. त्यामध्ये मोठ्या प्रमाणावर कंपन्यांनी आपल्यावर विश्वास दाखवला त्याबद्दल त्यांचे आभार तसेच ११ डिसेंबर २०२४ रोजी पुणे विभागाची वार्षिक सभा आयोजित करण्यात आली होती. एकंदर Expo आणि वार्षिक सभेला सभासदांची उपस्थिती मोठ्या प्रमाणावर होती.

Expo आणि वार्षिक सभेसाठी पुणे विभागाचे अध्यक्ष श्री. अनिल महाजन व त्यांच्या कार्यकारिणीने उत्कृष्ट नियोजन केल्यामुळे कार्यक्रम अतिशय चांगला झाला. त्यासाठी सर्व टीमचे हार्दिक अभिनंदन !

महाराष्ट्र शासनाच्या संपूर्ण मंत्रिमंडळाचे नुकतेच खाते वाटप जाहीर झाले असून आपल्या सभासदांच्या विविध अडी अडचणीबाबत संबंधित खात्याच्या मंत्रि महोदय तसेच सचिवांकडे अडकलेल्या प्रश्नांबाबत

पाठपुरावा करणे कामी संघटनेचे पदाधिकारी कटिबद्ध असून त्याबाबत पुढील पाऊले उचलण्यास आपण सुरवात केलेली आहेच.

आपल्या राज्याचे मुख्यमंत्री मा. श्री. देवेंद्रजी फडणवीस यांचे कडेच ऊर्जा खात्याचा कार्यभार असून नुकत्याच झालेल्या नागपुर येथील अधिवेशनात मा. मुख्यमंत्री साहेबांनी शेतकऱ्यांसाठी दिवसा विज उपलब्ध करून देण्यासाठी नवीन योजना जाहीर केली असून सदरहु योजना सक्षमपणे राबविण्यासाठी व सदरहु योजनेत काम करण्यासाठी आपल्या विद्युत ठेकेदारांना सामावून घेण्याबाबत मा. मुख्यमंत्री साहेबांना भेटून त्याबाबत लवकरच निवेदन देणार आहोत.

सदरहु योजनेमुळे आपल्या सर्व बांधवांना काम मिळण्यासाठी प्रयत्न करणे तसेच सदरहु योजनेत आपला सहभाग होण्याने ग्रामीण भागातील शेतकऱ्यांच्या आनंदात सहभागी होण्याची संधी निर्माण करण्यासाठी आपण कटीबद्ध होवू या !

नवीन वर्षाच्या सुरुवातीला दि.१५ जानेवारी २०२५ रोजी आपल्या संघटनेच्या शतकपूर्ती निमित्त “The Westin Mumbai Powai Lake” (Marriot Hotel) या पंचतारांकित हॉटेल मध्ये आपली ‘वार्षिक सर्वसाधारण सभा’ आणि “Grand Finale” चे आयोजन करण्यात आले असून त्यासाठी आपण सर्वांनी मोठ्या संख्येने उपस्थित राहावे, ही नम्र विनंती.

तर चला मित्रांनो, आपला शतकपूर्ती समारोह उत्साहात साजरा करूयात !

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शताब्दी वर्षाचा समारोप

नमस्कार मित्रांनो,

इकॅम पश्चिम महाराष्ट्र विभागाची १२ वी वार्षिक सभा दिनांक ६ डिसेंबर २०२४ रोजी संध्याकाळी ४.०० वाजता हॉटेल लेक व्ह्यू, गोडोली नाका, सातारा येथे खेळीमेळीच्या वातावरणात संपन्न झाली. या वार्षिक सभेला सभासदांचा उत्स्फूर्त प्रतिसाद मिळाला. इकॅमतर्फे महासचिव श्री. देवांग ठाकूर तसेच पुणे विभागाचे चेअरमन श्री. अनिल महाजन आणि विभागीय संचालक उपस्थित होते. वार्षिक सभेनंतर सुरुची भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

इकॅम पुणे विभागाची ४० वी वार्षिक सभा दिनांक ११ डिसेंबर २०२४ रोजी संध्याकाळी ६.०० वाजता महालक्ष्मी लॉन्स, १०० फूटी डीपी रोड, राजाराम पुलाजवळ, कर्वे नगर, पुणे येथे खेळीमेळीच्या वातावरणात संपन्न झाली. सदर प्रसंगी विद्युत साहित्याचे प्रदर्शन आयोजित करण्यात आले होते. या प्रदर्शनात सुमारे ७० स्टॉल उभारण्यात आले होते. या वार्षिक सभेला तसेच प्रदर्शनाला सभासदांचा उत्स्फूर्त प्रतिसाद मिळाला. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर तसेच विभागीय चेअरमन आणि संचालक उपस्थित होते. वार्षिक सभेनंतर सुरुची भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

IEEMA पश्चिम विभागाची दिनांक १३ डिसेंबर २०२४ रोजी संध्याकाळी ६.३० वाजता हॉटेल वेस्ट एन्ड, न्यू मरीन लाईन्स येथे ELECRAMA २०२५ चे पुर्वावलोकन करण्यासाठी सदस्यांची बैठक आयोजित करण्यात आली होती. या बैठकीस मुंबई विभागातील संचालकांनी उपस्थिती दर्शविली.

दिनांक २० डिसेंबर २०२४ रोजी राष्ट्रीय उर्जा संवर्धन सप्ताहाच्या निमित्ताने इकॅम नगर विभाग सोलर असोसिएशन व महावितरण यांच्या संयुक्त विद्यमाने सोलर जनजागृती मोटर सायकल रॅली आयोजित करण्यात आली होती. या प्रसंगी इकॅम नगर विभागाच्या सभासदांनी उत्स्फूर्त प्रतिसाद देऊन रॅली यशस्वी केली.

आपला शताब्दी वर्षाचा समारोप सोहळा तसेच इकॅमची ९९ वी वार्षिक सर्वसाधारण सभा दिनांक १५ जानेवारी २०२५ रोजी दि वेस्ट इन, मुंबई पवई लेक, २ आणि ३ बी, चिन्मयानंद आश्रम, कैलाश नगर, मयूर नगर, मोरारजी नगर जवळ, पवई, मुंबई-४०० ०८७ येथे दुपारी १.४५ वाजता आयोजित करण्यात आली आहे. तरी आपण जास्तीत जास्त संख्येने उपस्थित राहून इकॅमची ९९ वी वार्षिक सर्वसाधारण सभेची तसेच शताब्दी वर्षाचा समारोप सोहळ्याची शोभा वाढवावी.



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Satish Sinnarkar
Editor, IECT

My Silver Jubilee of editing IECT

I remember the year 1999 when I was staying in the Jankalyan nagar of Malad. One Mr Lohokare used to come in the social gatherings in the area. He was a member of Ecam. He knew me as a printer and a publisher. One day he suggested me to meet Mr Uday Chitre, President of Ecam to restart the IECT magazine. This was the time when Ecam directors were busy in the preparation for the celebration of the Platinum jubilee of the Association. When I met Mr Uday Chitre and Mr Sailesh Doctor, I was told that the IECT magazine is not being published since last several years and now on the occasion of the Platinum jubilee, the association is planning to restart the publication.

There were several joint meetings and finally it was decided by the board members to outsource the publication to my company, Campaign Masters. This was a bold decision for Ecam and Campaign Masters. The idea of outsourcing was rare in those days, but Mr Chitre and Mr Doctor took the decision. Similarly, taking up a challenge was my nature and I accepted the challenge. It is easy to start a new publication, but it was hell of a job to revive a dead magazine.

The journey started in December 2000 and now we are in the 25th year of the publication. A long journey for me as editor, printer and publisher.

As a commerce graduate with no prior knowledge of the electrical sector, I took on the challenge of editing and publishing a trade journal catering to

electrical professionals. Over 25 years, I acquired in-depth knowledge of the industry, built a strong network, and established myself as a trusted voice in the electrical trade media.

During this period, my key strength was creating engaging content for the electrical professionals with an understanding of electrical industry trends, technologies, and challenges. I was fortunate to get strong relationships with industry stakeholders, manufacturers, and thought leaders. The handholding by these stalwarts helped me in getting quality content for the magazine. Hundreds of interviews, technical articles and reporting the events of Ecam, exhibitions and seminars gave me confidence in developing the reach of the magazine.

I am grateful to all the directors of Ecam from the year 2000 till today for their faith in me and my team.

Now Ecam is celebrating the centenary year and a grand finale is taking place on 15 January in Mumbai. We at Campaign Masters are also celebrating the silver jubilee of editing and publishing IECT.

I express my deep gratitude towards the readers, advertisers, my staff members and all present and past directors of Ecam. I pay homage to late Mr Uday Chitre, Shirish Jhaveri, Sunil Bhure who supported me with full confidence. I am sure the journey will continue and IECT will prove to be a leading publication of India.

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मराठी बातम्या/लेख

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- 42 इकॅम पुणे एक्सपो २४
- 44 इकॅम पुणे विभागाची ४० वी वार्षिक सभा...
- 46 'दुसरी हरित क्रांती घडेल'
'प्रधानमंत्री सूर्यघर' अंतर्गत ३१५ मेगावाट वीजनिर्मिती
- 47 ९० टक्के सौर ऊर्जेच्या दिशेने



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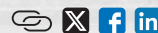
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What is DCR in India's policy of solar energy?

Domestic Content Requirement (DCR) is a key policy initiative in India's solar energy sector, aimed at promoting local manufacturing of solar components.

The goal is to reduce India's reliance on imported solar products, create jobs, and boost the economy.

To achieve this, the Ministry of New and Renewable Energy (MNRE) mandates that solar PV projects must use domestically manufactured solar modules with a minimum domestic content of 70%.

This policy applies to various MNRE schemes, including rooftop solar projects.

Benefits of DCR Policy -

Job Creation : The DCR policy is expected to create millions of jobs in the Indian solar manufacturing sector. -

Economic Boost : The policy aims to boost India's GDP by billions of dollars. -

Reduced Imports : The DCR policy aims to reduce India's imports of solar modules, saving foreign exchange and improving the trade balance. -

Technological Advancement : The policy promotes technological innovation in the Indian solar manufacturing sector.

Consequences of DCR Violations -

Blacklisting : Solar developers may be blacklisted for up to 10 years, preventing them from participating in future MNRE schemes. -

Forfeiture of Bank Guarantee : Solar developers may be required to forfeit the bank guarantee submitted for the project. -

Criminal Prosecution : In some cases, MNRE may initiate criminal prosecution against the solar developer for DCR violations.

Key Players in DCR Solar Market -

Adani Solar : One of the leading manufacturers of DCR solar modules. -

Waaree : Another prominent player in the DCR solar market. India's domestic manufacturing capacity for DCR solar modules is growing rapidly, with projections indicating a capacity of 110 GW by FY 2026.



Modules are heart and the Inverters are brain in solar installations

That's a clever analogy!

In solar installations, modules (photovoltaic panels) and inverters play crucial roles, making the comparison apt:

1. **Module (Heart) Energy Generation:** Modules convert sunlight into DC power, just like the heart pumps blood throughout the body.
2. **Primary Function :** Generates electricity, driving the entire solar system.
3. **Key Characteristics :** Efficiency, power output, and durability.
1. **Inverter (Brain) Energy Conversion :** Inverters convert DC power from modules into AC power, usable in homes and businesses, similar to how the brain processes information.
2. **System Control:** Monitors and controls the solar system's performance, optimizing energy harvest and efficiency.
3. **Key Functions:** Maximum Power Point Tracking (MPPT), voltage regulation, and grid synchronization.

The analogy highlights the essential partnership between modules and inverters:

1. **Module-Inverter Synergy :** Modules generate energy, while inverters optimize and utilize it.
2. **Efficient Energy Harvest :** Together, they ensure maximum energy production and consumption.

Other essential components in a solar installation include:

1. **Mounting System :** Supports modules for optimal exposure.
2. **Electrical Wiring :** Connects modules, inverters, and other components.
3. **Grounding System :** Ensures electrical safety.
4. **Monitoring and Control Systems :** Track performance, detect issues, and optimize energy production.

The analogy effectively illustrates the interconnectedness of solar installation components, emphasizing the vital roles of modules and inverters.



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A comprehensive overview of micro-inverters, central inverters, Optimiser-based inverters and string inverters for solar installations

Micro-Inverters

1. **Definition :** Individual inverters for each solar panel.
2. **Benefits:** - Monitoring of each panel's performance
- Maximum energy harvest -
- Rapid shutdown for safety -
- Flexible installation
3. **Types:** -
- Single-phase micro-inverters -
- Three-phase micro-inverters
4. **Advantages :** - Higher efficiency
- Improved safety - Enhanced monitoring
5. **Disadvantages:** -
- Higher cost - Complexity

Central Inverters

1. **Definition :** Single inverter for multiple solar panels (string configuration).
2. **Benefits:** -
- Lower cost - - Simplified installation -
- High power handling
3. **Types :** - Single-phase central inverters -
- Three-phase central inverters
4. **Advantages:** - **Cost-effective** -
- Easy maintenance - High reliability
5. **Disadvantages :** - Limited monitoring capabilities -
- Reduced safety features

Optimizer-Based Inverters

1. **Definition :** Devices that optimize energy harvest from solar panels, connecting to a central inverter.
2. **Benefits :** -
- Improved energy efficiency -
- Enhanced monitoring -
- Reduced cost

3. **Types :** - Power optimizers -
- Module-level power electronics (MLPEs)
4. **Advantages :** - Higher efficiency -
- Improved safety -
- Flexible installation
5. **Disadvantages:**
- Additional components - Complexity

String Inverters

1. **Definition :** Inverters for multiple solar panels connected in series (string configuration).
2. **Benefits :** -
- Cost-effective -
- Simplified installation -
- High power handling
3. **Types :** -
- Single-phase string inverters -
- Three-phase string inverters
4. **Advantages :** - Easy maintenance -
- High reliability - Cost-effective
5. **Disadvantages :** - Limited monitoring capabilities -
- Reduced safety features

Comparison

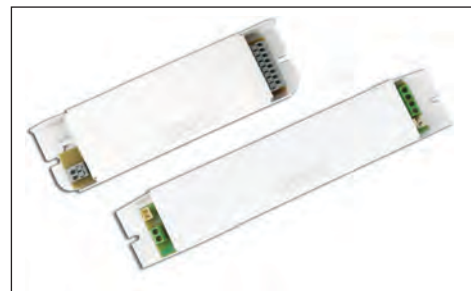
Selection Criteria

1. System size and complexity
2. Budget and cost considerations
3. Monitoring and safety requirements
4. Installation flexibility
5. Performance optimization needs

When choosing an inverter type, consider your specific solar installation needs, local regulations and budget constraints. Consult with a solar expert or manufacturer's representative for personalized guidance.

The conversion module or conversion kit of Prolite

Prolite's innovative products are results of R&D based on changing threat perceptions and contemporary needs. One of the recent innovations that stand out as a one-of-a-kind product is the conversion module or conversion kit. Prolite's conversion kits equip existing luminaires to perform in Emergency conditions by providing instant illumination when mains supply fails. Conversion kits are small, inconspicuous add-ons that can be attached to normal luminaires (lights) without disturbing the aesthetics of the original decor. Therefore it saves the cost of installing a fresh emergency light by equipping an existing light to play the dual role of a normal light powered by the mains and an emergency light when the mains power fails.





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- ACSR Conductors (IS 398:Part 2)
- AAAC Conductors (IS 398:Part 4)
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Central government approves 2,000 MW solar park in Rajasthan

The Central government has approved the development of a 2,000 MW solar park in Rajasthan, with 30 per cent central financial assistance.

The project will be developed by Rajasthan Solar Development Corporation. Rajasthan has an installed renewable energy capacity of 30.31 GW which includes solar power contributing 24.55 GW.

Waaree Energies secures order for 1 GW solar PV modules from a leading renewable power developer

Waaree Energies Limited has received an order for the supply of 1 GW of solar photo voltaic (PV) modules.

The supply is scheduled to commence in 2024 and continue through 2026, and the order is classified as a one-time contract.

GE Vernova T&D secures order from Sterlite Power for 765 kV transformers and reactors

GE Vernova T&D India Limited has received an order from Sterlite Power for the supply and supervision of 765 kV power transformers and reactors for the Khavda project.

The contract is to be executed within two years, with a total consideration of approximately Rs 4 billion.

Adani Group to invest over Rs 7 trillion in Rajasthan's renewable energy sector

Reportedly, Adani Group has planned to invest over Rs 7 trillion in Rajasthan in various sectors including renewable energy.

The Adani Group also plans to develop 100 GW of renewable energy capacity. The investment, which aims to establish the world's largest integrated green energy ecosystem, is set to be executed over the next five years.

Continuum Green Energy files DRHP with SEBI for IPO

Reportedly, Continuum Green Energy Limited has filed a draft red herring prospectus (DRHP) with the Securities and Exchange Board of India (SEBI) to raise Rs 36.5 billion through an initial public offering (IPO).

The IPO includes a fresh issue of shares worth Rs 12.5 billion and an offer for sale of Rs 24 billion by the promoter, Continuum Green Energy Holdings Limited. The net proceeds from the fresh issue will be used to repay or prepay outstanding borrowings of its

subsidiaries, with Rs 11 billion allocated for this purpose. Additional funds will be used for general corporate purposes. The company may also conduct a pre-IPO placement of up to Rs 2.5 billion, which would reduce the size of the fresh issue accordingly. Kotak Mahindra Capital Company, Ambit Private, Citigroup Global Markets India, and JM Financial are the book-running lead managers for the IPO.

Avaada Group commits Rs 1 trillion for renewable energy projects in Rajasthan

Reportedly, Avaada Group has pledged an investment of Rs 1 trillion to develop Rajasthan into the world's largest renewable energy hub. The investment aims to drive green manufacturing in the state and is expected to create millions of jobs, contributing to economic empowerment across Rajasthan. The initiative will bolster the renewable energy sector, positioning Rajasthan as a key player in India's clean energy transition.

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Malaysia's TNB and Sembcorp to export renewable energy to Singapore

Tenaga Nasional Bhd (TNB) and Sembcorp Power Private Limited have signed an agreement for Malaysia's first renewable energy export to Singapore, supplying 50 MW of electricity.

This initiative follows the Energy Exchange Malaysia auction in June 2024 and aligns with Malaysia's Cross-Border Electricity Sales for Renewable Energy Scheme. The energy will be delivered via existing Malaysia-Singapore interconnections. The initiative aims to leverage higher pricing in Singapore to fund Malaysia's decarbonisation efforts, including renewable energy adoption and grid enhancements.

MNRE releases List-II for solar PV cells under ALMM framework

The Ministry of New and Renewable Energy (MNRE) has introduced the List-II for solar photovoltaic (PV) cells under the approved list of models and manufacturers (ALMM) from June 1, 2026.

The projects required to use ALMM-enlisted solar modules from List-I will now also need to ensure that the modules are manufactured using solar cells listed under List-II starting June 1, 2026.

However, exceptions apply to projects with bid submission deadlines preceding the issuance of this order, exempting them from the List-II requirement regardless of their commissioning date. Furthermore, tenders issued after the introduction of List-II will

explicitly include provisions mandating the use of both ALMM List-I and List-II-certified products. The projects commissioned before June 1, 2026, must comply if their bidding aligns with the revised timeline.

Net-metering and open access renewable energy projects required to use ALMM-listed modules will also need to adhere to List-II requirements after June 2026, unless commissioned before the cutoff date. Thin-film technology-based modules manufactured in integrated facilities listed under ALMM List-I will be considered compliant with List-II regulations. These modules will be applicable only for exempted projects.

MERC and GEAPP partner to integrate renewable energy sources in Maharashtra

The Maharashtra Electricity Regulatory Commission (MERC) and Global Energy Alliance for People and Planet (GEAPP) have signed a statement of intent to support Maharashtra's energy transition by integrating renewable energy sources and advancing grid management through innovative regulatory frameworks.

This collaboration builds on GEAPP's earlier initiative with NITI Aayog and leverages MERC's leadership in regulatory measures such as resource adequacy and demand flexibility. The initiative aims to integrate cost-effective renewable energy solutions like solar and wind, facilitate energy efficiency, and develop scalable business models tailored to Maharashtra's needs.

Reliance Power establishes subsidiary: Reliance NU Energies for renewable energy projects

Reportedly, Reliance Power Limited has incorporated Reliance NU Energies Private Limited, a subsidiary dedicated to renewable energy projects. The new entity will focus on solar, wind, hybrid systems, and advanced energy storage solutions, including pumped storage hydropower and battery energy storage systems.

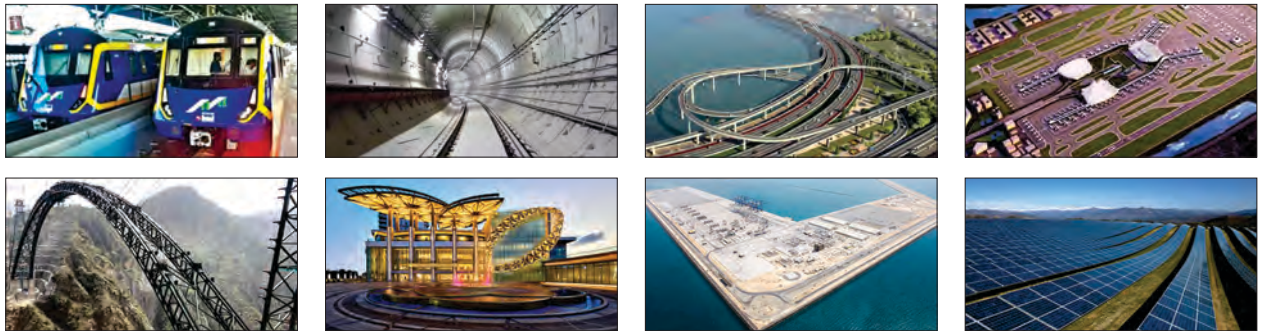
Juniper Green Energy signs 1 GW solar module supply agreement with First Solar

Juniper Green Energy Limited has signed an agreement with First Solar for the supply of 1 GW of Series 7 FT1 cadmium telluride (CdTe) thin-film photovoltaic modules.

The modules, to be sourced from First Solar's Chennai facility, will be deployed across Juniper Green Energy's projects in Rajasthan, Gujarat, and Maharashtra during the next financial year. This agreement reduces dependence on China by utilising domestically produced modules compliant with approved list of models and manufacturers, domestic content requirements, and bureau of Indian standards.

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- Long lifespan of over 25 years -

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Latest Industry Standards and Regulations

Industry standards and regulations for instrument transformers include: -

- IEC 61869-4 - PN-EN 61869-4 -
- Compliance with environmental and safety regulations

Combined Instrument Transformers

Combined instrument transformers integrate voltage and current transformers into a single unit, offering: -

- Space-saving design -
- Reduced installation costs -
- Simplified maintenance³

SF6 Alternatives*

The industry is shifting towards SF6 alternatives, such as: -

Technical air (N and O) -

Gas-insulated instrument transformers⁴

Challenges in developing these alternatives include:

Ensuring equivalent performance and reliability

Addressing environmental and safety concerns *

Adoption of Alternatives and Market Impact*

The adoption of SF6 alternatives is driven by: -

Environmental regulations and sustainability concerns -

Cost savings and reduced maintenance

The impact on the instrument transformers market includes: -

Shift towards eco-friendly and sustainable solutions -

Increased competition and innovation

Long-term Outlook for Innovation

Future innovations in instrument transformers will focus on:

Energy efficiency and sustainability - Advanced materials and designs -

Integration with emerging technologies, such as IoT and AI

Emerging Technologies and Trends

Emerging technologies and trends in instrument transformers include: -

Smart grid technologies -

Renewable energy integration -

Condition monitoring and predictive maintenance

Market Evolution

The instrument transformers market is expected to evolve in the next 5-10 years, with: -

Increased adoption of SF6 alternatives -

Growing demand for smart grid technologies -

Rising competition and innovation



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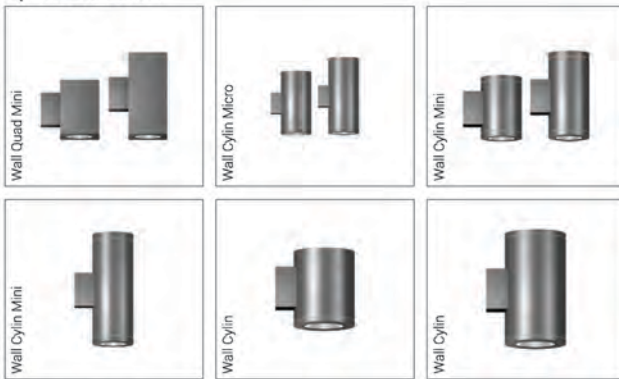
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Up Down Series



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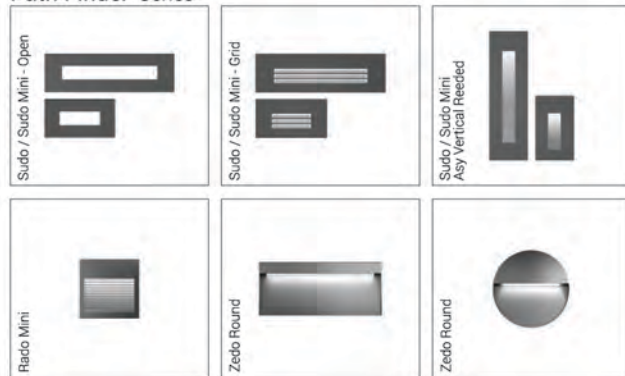


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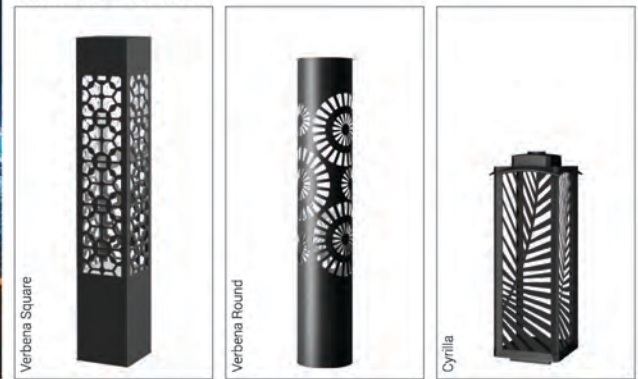


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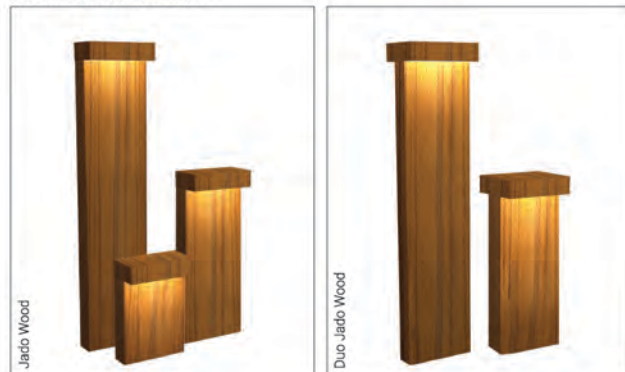
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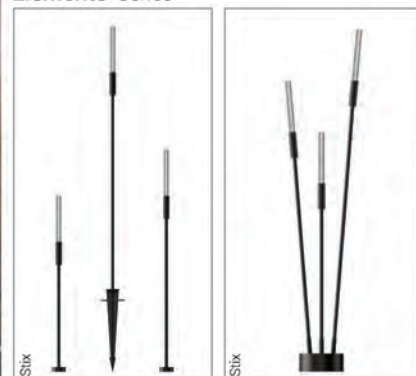
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Hydrogen and nitrogen fused for first time ever: The result is something strange and powerful



America, pioneer in producing energy with this form of life: This state has shocked the world

The new silent wind turbine for home that destroys solar panels: 1,500 kWh of free electricity this winter

Japan destroys all the worlds solar panels with this sphere: Infinite energy in all directions

Ammonia is the fuel for fertilizers and is also a high-energy, CO₂-emitting ammonia. Researchers at the University of Illinois Chicago (UIC) with RMIT University Melbourne are advancing project-based innovative cleaner and cost-effective approaches to ammonia production.

Rethinking the Haber-Bosch process for solving ammonia's carbon problem

Ammonia production presently involves the Haber-Bosch process, which is energy and hydrogen intensive; quite a large part of hydrogen derives from fossil fuels. Such characteristics make the ammonia industry an excellent contributor to global CO₂ emissions.

A new method-lithium-mediated ammonia synthesis (LMAS) was devised and developed by the team at the University of Illinois Chicago. The main process involves using the lithium electrode in conducting reactions with nitrogen and hydrogen.

This makes temperature processes unnecessary. What really makes it different compared to others is that LMAS has the potential of drastically reducing

production costs. Traditional green ammonia, for instance produced from renewable hydrogen, tends to be expensive, with prices ranging from \$750 to \$888 for every tonne produced.

The LMAS technology could as much as reduce this price by up to 60%, making it possible to produce ammonia for as little as \$450 per tonne. This is as gigantic a boon as one can expect, especially because the key constituent used in the whole thing-the ethanol-is massively produced and relatively cheap.

This however is still very promising technology and has some critiques when it comes to cost reductions because it is debatable whether the technology would prove itself more efficient and economically sound in the long run than claimed.

Liquid metal catalyst of RMIT: Ammonia production reversed

Out here in the rest of the world, researchers at RMIT University in Melbourne are inventing a radically different concept of ammonia production. They built a liquid metal catalyst from copper and gallium for the first time for ammonia synthesis.

The 'nano planets' work well at lower pressure and temperature levels compared to the traditional ones since they only require 4 bars pressure and a temperature of 400 degrees C rather than the usual 200 bars and 500 degrees C.

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The research shows that the method requires 20% less heat and 98% less pressure than conventional ammonia production (such as this one which is to be produced in America), which would be a great potential for energy savings. The catalyst is so efficient in splitting nitrogen and hydrogen that it allows for production on a very large scale while keeping the carbon footprint much smaller.

The process can play a very important role in the hydrogen economy, enabling ammonia to become a much safer and efficient carrier for hydrogen storage and transport. In the future, this could allow green energy to be sold rather than wasted in conversion losses associated with long-distance energy transportation.

From fertilizers to fuel: Ammonia of the future

Indeed, the ramifications of these two technologies may go beyond ammonia production. Ammonia is intended to serve an important future role as a clean shipping fuel since, it can be converted into hydrogen for use on-demand.

Apart from the liquid metal catalyst of RMIT and

LMAS, they offer pathways to a more sustainable future for ammonia-reliant industries through reducing the carbon footprint associated with ammonia production. The real test, however, would be to scale these technologies up to satisfy global demand.

The lifecycle emissions of the lithium-based LMAS technology have yet to be determined, along with issues of efficiency and scalability of both methods. Nonetheless, both teams are actively improving their respective technologies. They are in collaboration with industry partners exploring the pathways of commercialization.

These cutting-edge processes in ammonia production, which rely on lithium-mediated synthesis and liquid metal catalysis, have the potential to revolutionize energy consumption, cost, and CO₂ emission. They could, however difficult, contribute greatly to decarbonizing industries and make an important contribution to that most forward-looking and hopeful future (like the one discovered in a 20-million-year-old mine in Finland).



NHPC, BEML partner to develop desilting and dredging solutions for hydro power plants

Synopsis NHPC and BEML partnered to develop desilting and dredging solutions for hydropower plants. This collaboration aims to improve power generation, reduce maintenance costs, and address urban waterlogging by clearing canals and culverts. The solutions will also support dredging operations in waterways and other water bodies, boosting India's renewable energy infrastructure.

NHPC announced a partnership with BEML to jointly explore opportunities for development of desilting and dredging solutions for hydro power plants. Besides, the solutions would help mitigate urban waterlogging during monsoons by swiftly clearing canals and culverts, support dredging and desilting operations in inland waterways, coastal areas, ponds,



and lakes, NHPC said in a statement. NHPC and BEML have signed a Memorandum of Understanding (MoU) that aims to establish strategic cooperation for the development of advanced desilting and dredging solutions tailored for hydroelectric plants, it said.

Upon successful implementation in pilot projects, the solutions are expected to be replicated across other hydro power plants, further strengthening India's renewable energy infrastructure, NHPC said. NHPC chairman and managing director R K Chaudhary said, "Together, we aim to enhance power generation efficiency, reduce maintenance costs, and support India's ambitious renewable energy objectives. This partnership will not only benefit the power sector but also create a positive impact on the environment and local communities."





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India as a global supplier of energy goods



India has immense potential to become a significant global supplier of energy goods, driven by:

Factors Enabling India's Energy Export Potential

1. **Renewable Energy** : India's growing renewable energy sector, particularly solar and wind power, can cater to global demand.
2. **Domestic Production** : India's energy production capacity, including coal, oil, and natural gas, can be leveraged for exports.
3. **Infrastructure Development** : Upgrades to ports, transportation networks, and storage facilities will facilitate seamless exports.
4. **Government Initiatives** : Policies like the National Energy Policy (2017) and the Production Linked Incentive (PLI) scheme encourage domestic manufacturing and exports.
5. **Growing Demand** : Increasing global demand for clean energy, energy efficiency solutions, and sustainable technologies presents opportunities for India.

Energy Goods for Export

- 1. Solar Panels and Modules :** India's large solar manufacturing capacity can meet global demand.
- 2. Wind Turbines :** Indian wind turbine manufacturers can export to countries with growing renewable energy needs.
- 3. Energy-Efficient Equipment :** India can export

energy-efficient solutions, such as LED lights and smart grids.

- 4. Fossil Fuels :** India can export coal, oil, and natural gas to countries with high energy demands.
- 5. Clean Energy Technologies :** India can export clean energy technologies, such as energy storage systems and electric vehicles.

Potential Export Markets

- 1. ASEAN Countries :** India can tap into Southeast Asia's growing energy demand.
- 2. Middle East :** India can export energy goods to countries demands, such as Saudi Arabia

- 3. Africa :** India can explore opportunities in Africa's growing energy sector.
- 4. Europe :** India can export renewable energy technologies to European countries transitioning to clean energy.
- 5. Latin America :** India can explore opportunities in Latin America's growing energy market.

Challenges and Opportunities

1. **Competitive Pricing** : India needs to ensure competitive pricing to remain attractive to global buyers.
2. **Quality and Standards** : India must meet international quality and safety standards.
3. **Logistical Challenges** : India needs to improve its logistics and transportation infrastructure.
4. **Market Access** : India should negotiate trade agreements to enhance market access.
5. **Research and Development** : India should invest in R & D to develop innovative energy solutions.

By addressing these challenges and leveraging opportunities, India can emerge as a significant global supplier of energy goods, contributing to energy security, economic growth, and sustainable development.



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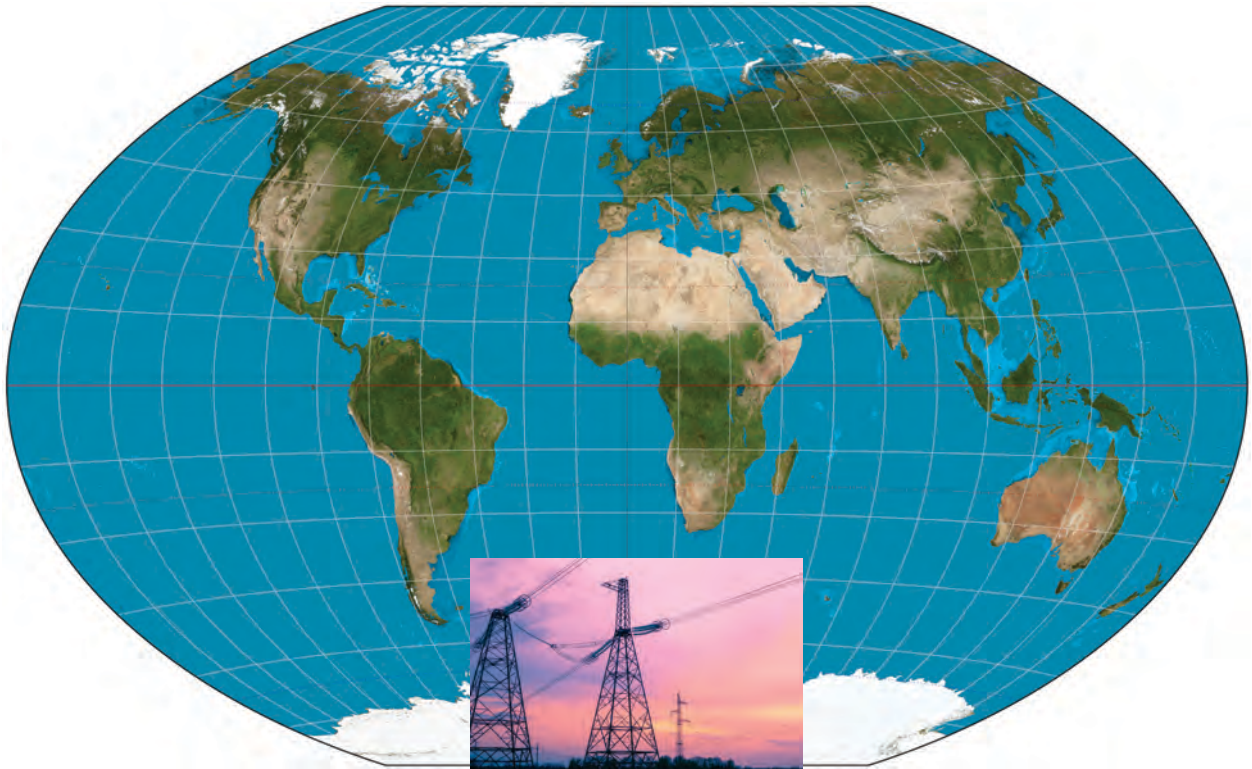
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Why every nation wants energy independence?



Every nation seeks energy independence for several strategic, economic and security reasons:

Strategic Reasons

1. National Security : Energy independence reduces reliance on foreign suppliers, minimizing geopolitical risks and vulnerabilities.
2. Diplomatic Leverage : Energy self-sufficiency enhances negotiating power in international relations.
3. Economic Diversification : Diversifying energy sources and reducing dependence on a single supplier promotes economic stability.

Economic Reasons

1. Job Creation : Domestic energy production creates employment opportunities.
2. Economic Growth : Energy independence stimulates economic growth through increased energy security.
3. Revenue Generation : Domestic energy production generates revenue for the government.

Energy Security Reasons

1. Price Volatility: Energy independence shields against price fluctuations.
2. Energy Access: Domestic energy production ensures reliable energy supply.
3. Energy Diversity: Diversifying energy sources reduces dependence on a single fuel type.

Environmental Reasons

1. Reduced Carbon Footprint : Domestic energy production can prioritize renewable energy sources.
2. Environmental Protection : Energy independence reduces reliance on fossil fuels.
3. Climate Change Mitigation : Transitioning to clean energy supports global climate goals.

Other Reasons

1. Energy Trade Balance : Energy independence improves trade balances by reducing energy imports.
2. Technological Advancement : Domestic energy production drives innovation.
3. Energy Sovereignty : Energy independence ensures national control over energy policy.

Achieving energy independence requires a multi-faceted approach, including:

1. Domestic energy production (renewable and fossil fuels)
2. Energy efficiency measures
3. Energy conservation
4. Diversified energy sources
5. Strategic energy planning
6. International cooperation

By achieving energy independence, nations can enhance national security, economic stability, and environmental sustainability.



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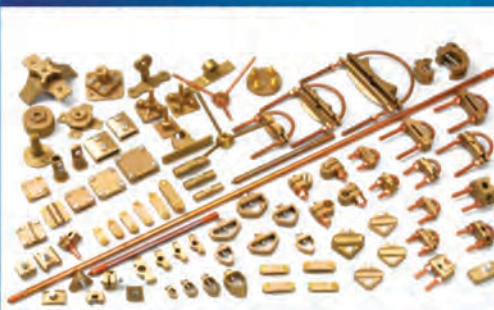
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Coal use to reach new peak – and remain at near-record levels for years



Spike in fossil fuel use a result of global gas crisis triggered by Russia's invasion of Ukraine

The world's coal use is expected to reach a fresh high of 8.7bn tonnes this year, and remain at near-record levels for years as a result of a global gas crisis triggered by Russia's invasion of Ukraine.

There has been record production and trade of coal and power generation from coal since Russia's full-scale invasion of Ukraine inflated global gas market prices, according to the International Energy Agency (IEA).

The IEA said the coal rebound, after a slump during the global Covid pandemic, means consumption of the fossil fuel is now on track to rise to a new peak of 8.77bn tonnes by the end of the year – and could remain at near-record levels until 2027.

The Paris-based agency blamed power plants for the growing use of coal over the last year, particularly in China which consumes 30% more of the polluting fuel than the rest of the world put together.

In developed economies such as the US and the European Union coal power generation has already passed its peak, the IEA said, and is forecast to fall by 5% and 12% respectively this year.

In the UK, coal power has been consigned to history after the last coal plant at Ratcliffe-on-Soar in Nottinghamshire generated its final megawatt in September, narrowly beating the government's 2024 deadline.

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Coal demand in China is expected to grow by 1% in 2024 to reach 4.9bn tonnes, which is another record, according to the IEA. India is expected to see demand grow by more than 5% to 1.3bn tonnes, a level previously reached only by China.

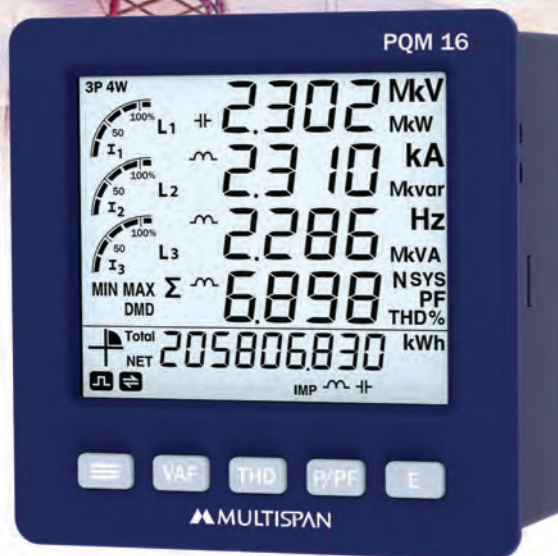
The IEA said that the forecast boom in renewable energy over the coming years is expected to keep a cap on coal use for the next three years, even as demand for electricity is expected to surge in developing countries, before demand for the fossil fuel begins to fall by the end of the decade, the report said.

Keisuke Sadamori, the IEA's director of energy markets and security, said: "The rapid deployment of clean energy technologies is reshaping the global electricity sector, which accounts for two-thirds of the world's coal use. As a result, our models show global demand for coal plateauing through 2027 even as electricity consumption rises sharply."

"However, weather factors – particularly in China, the world's largest coal consumer – will have a major impact on short-term trends for coal demand. The speed at which electricity demand grows will also be very important over the medium term," he added.



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Earth's Hidden Treasure : Mountain Of Hydrogen Could End Fossil Fuel Era, Study Finds

The discovery challenges previous beliefs that hydrogen, being a small molecule, would not accumulate in large quantities underground.

Approximately 6.2 trillion tons of hydrogen gas is trapped in rocks, per the study.

A remarkable study has claimed that a mountain of hydrogen present beneath the Earth's surface could entirely reduce our dependence on fossil fuels for at least 200 years. The study titled, "Model predictions of global geologic hydrogen resources", published in the journal Science Advances on Friday (Dec 13), claims that approximately 6.2 trillion tons of hydrogen gas is trapped in rocks and underground reservoirs, which is about 26 times the amount of known oil reserves. The only caveat is that where all this hydrogen is located -- remains unknown.

Hydrogen holds promise as an efficient future fuel, owing to its abundance and light nature with governments worldwide are exploring its potential to replace oil and gas. The study posits that hydrogen may account for as much as 30 per cent of future energy supply in some sectors with the global demand expected to increase more than fivefold by 2050.

"The global demand for hydrogen is projected to reach approximately 500 Mt year⁻¹ by 2050 and recovery of just 2% of the estimated most probable in-place resource would meet the entire projected global hydrogen demand for nearly 200 years," the study

highlighted.

The discovery challenges previous beliefs that hydrogen, being a small molecule, would not accumulate in large quantities underground due to its tendency to escape through pores and cracks in rocks. However, recent findings, including those from a chromium mine in Albania as well as in West Africa, have shown that hydrogen can indeed form substantial underground reservoirs.

"I was surprised that the results were larger than I thought going in," Ellis said. "The takeaway is that there is a lot down there," Geoffrey Ellis, a petroleum geochemist at the US Geological Survey (USGS) and lead author of the study was quoted as saying by LiveScience.

Highlighting the advantages of tapping natural hydrogen, Mr Ellis said it would not require a source of energy with underground reservoirs holding the gas until it is needed.

"We don't have to worry about storage, which is something that with the blue hydrogen or green hydrogen you do - you want to make it when electricity is cheap and then you have to store it somewhere," he added.

Despite the breakthrough, the biggest challenge remains extracting the hydrogen and making it economically viable so that investors put their money into the venture.



Coal-based power generation up 3.87% in Apr-Oct, coal imports drop 3%: Govt

The government has said coal-based power generation rose 3.87 per cent in the April-October period of the current fiscal year.

"...there was a significant growth of 3.87 per cent in coal-based power generation from April 2024 to October 2024 compared to the same period last year," the coal ministry said in a statement.

The ministry further said the imports for blending purposes by thermal power plants dropped 19.5 per cent during the same period.

This decline emphasises the country's

commitment to achieve self-sufficiency in coal production and reducing reliance on imports.

"Increase in coal import for power sector is attributed to the import of coal by imported coal-based power plants (designed to utilise imported coal only) i.e. 30.04 MT during this period, up from 21.71 MT, reaching a growth of 38.4 per cent in the corresponding timeframe last year," it said.

Coal imports during April-October period of the current fiscal year dropped 3.1 per cent to 149.39 million tonnes (MT) over 154.17 MT in the corresponding period of the last financial year.



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सौर ऊर्जा जनजागृती रॅलीमध्ये इकॅम नगर रिजनचा सहभाग भविष्यात विजेबाबत स्वयंपूर्ण होऊ



जलविद्युत किंवा थर्मल इलेक्ट्रीसिटी माध्यमातून आपण वीज निर्मीती करत आहोत. मात्र कधीतरी कोळसा संपणार आहे तर पाण्यावरची वीजनिर्मितीही अतिशय गुंतागुंतीची आहे. त्यामुळे भविष्यात आपल्याला सौर ऊर्जेच्या पर्यायांकडेच जावे लागणार आहे. त्यामुळे सौर उर्जेचा वापर अधिक वाढवण्यासाठी केली जात असलेली जनजागृती उपयुक्त ठरणार असून सौर ऊर्जेच्या जास्तीत जास्त वापरामुळे भविष्यात आपण विजेच्या बाबतीत स्वयंपूर्ण होऊ. सौर उर्जा क्षेत्रात अहिल्यानगर मध्ये अतिशय उत्कृष्ट काम सुरु आहे. सौर उर्जेच्या अधिक वापरा बाबत जनजागृती करून हे काम अधिक वेगाने पुढे न्यावे, असे आवाहन अहिल्यानगर महानगरपालिकेचे आयुक्त यशवंत डांगे यांनी केले.

राष्ट्रीय ऊर्जा संवर्धन सप्ताहानिमित्त अहिल्यानगर महावितरण मंडल कार्यालय व शहरातील सौर ऊर्जा व्यावसायिक व विद्युत कंत्राटदार यांच्या संयुक्त विद्यमाने पंतप्रधान सूर्य घर मोफत वीज योजना व सौर ऊर्जेच्या वापराबाबत नागरिकांमध्ये अधिक जागृती होण्यासाठी आयोजित जनजागृती रॅलीचे व जनजागृती वाहनाचे उद्घाटन आयुक्त डांगे यांच्या हस्ते झाले. यावेळी नगर विभागाचे प्रांताधिकारी सुधीर पाटील, महावितरणचे कार्यकारी अभियंता योगेश चव्हाण, प्रभारी अधीक्षक अभियंता लक्ष्मण काकडे, ऑल इंडिया रिन्यूएबल असोसिएशनचे जिल्हाध्यक्ष अमित काळे, विद्युत कंत्राटदार संघटनेचे राज्याचे अध्यक्ष उमेश रेखे, जिल्हाध्यक्ष दत्ता झिंजुर्डे, सचिव अर्जुन ससे, महाऊर्जे चे अप्पासाहेब ठाणगे आदींसह शहरातील सौर ऊर्जा

व्यावसायिक, महावितरणचे अधिकारी व कर्मचारी मोठ्या संख्येने उपस्थित होते.

सुधीर पाटील यांनीही मार्गदर्शन केले. महावितरणचे कार्यकारी अभियंता योगेश चव्हाण यांनी उपस्थिताना सौर ऊर्जेच्या वापराबाबत व पर्यावरणवादी जीवनशैली बाबत प्रतिज्ञा दिली. राष्ट्रीय ऊर्जा संवर्धन सप्ताह निमित्त राज्यात केवळ अहिल्यानगर शहरातच रॅली काढून जनजागृती करण्यात आली. यावेळी रॅलीत सहभागी झालेल्यांनी प्राधान्याने ई बाईकच वापरून पंतप्रधान सूर्य घर मोफत वीज योजना व सौर ऊर्जेच्या वापराबाबत जनजागृती करणारे फलक हातात घेतले होते. सोलरचा वापर काळाची गरज.... सोलर वापरा वीज वाचवा... अशा घोषणा यावेळी रॅलीत देण्यात आल्या. ही रॅली सावेडी उपनगर व शहरातील काही भागांमध्ये फिरून नगर कॉलेज जवळील महावितरण मंडल कार्यालय येथे समाप्त करण्यात आली.





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इकॅम पुणे एक्सपो २४



इकॅम पुणे विभागाच्या वतीने दिनांक १० व ११ डिसेंबर २०२४ रोजी इकॅम पुणे एक्सपो २४ चे आयोजन केले होते. एक्सपोचे उद्घाटन श्री. हेमंत गांगुर्डे (अधीक्षक अभियंता, पुणे प्रादेशिक विद्युत मंडळ) आणि श्री. अरविंद बुलबुले (प्रभारी मुख्य अभियंता, महावितरण पुणे) यांच्या हस्ते करण्यात आले.

सचिव श्री. अनिकेत देवकर, फेकॅमचे अध्यक्ष, श्री. अनिल घाटगे व पुणे डिस्ट्रिक्ट असोसिएशनचे अध्यक्ष, श्री. प्रसाद बडवे उपस्थित होते. तसेच पुणे महापालिकेचे उपायुक्त श्री. नायकन हेही आवर्जून उपस्थित होते.



सुरुवातीला श्री. महाजन यांनी सर्वांचे स्वागत करून इकॅम बदल माहिती दिली. श्री. पाटील यांनी एक्सपो चा इतिहास आणि आत्ताचा एक्सपो याबद्दल सविस्तर माहिती दिली.

याप्रसंगी बोलताना श्री. गांगुर्डे म्हणाले की, विद्युत निरीक्षण विभाग, महावितरण, ग्राहक आणि कॉन्ट्रॅक्टर हे विद्युत क्षेत्रातील महत्त्वाचे चार खांबे आहेत. इकॅमचे कार्य कौतुकास्पद आहे. सामान्य जनतेचे

याप्रसंगी व्यासपीठावर त्यांच्यासह ग्रेटवाइट इलेक्ट्रिकल्सचे श्री. संदीप मिश्रा, विद्युत निरीक्षक श्री. नितीन सूर्यवंशी, इकॅम पुणेचे अध्यक्ष, श्री. अनिल महाजन, एक्सपो २४ समितीचे अध्यक्ष, श्री. अमरनाथ पाटील, उपाध्यक्ष श्री. गोरक्षनाथ शितोळे, प्रभारी



प्रबोधन, सभासदांसाठी मोलाचे कार्य, तसेच व्यवसाय वृद्धीसाठी प्रयत्न, ही मंडळी करित आहेत.

श्री बुलबुले यांनीही आपले मनोगत यावेळी व्यक्त केले.

या एक्सपोचे औचित्य साधून, इकॅम पुणे विभागाच्या वतीने, महाराष्ट्र शासनाच्या उद्योग, ऊर्जा व



कामगार विभागाच्या सहकार्याने, 'विद्युत सुरक्षा संदेश' या पुस्तिकेची निर्मिती केली आहे. तिचे प्रकाशन व्यासपीठावरील मान्यवरांनी केले.

आयईसीटीचे प्रतिनिधी श्री. कौशल बाली यांनी प्रतिनिधिक स्वरूपात सर्वश्री गांगुर्डे, बुलबुले, नायकन आणि घाटगे यांना डिसेंबर २४ चे अंक सुपूर्त केले.



या कार्यक्रमाचे सूत्रसंचालन श्री. मिलिंद नाईक यांनी तर आभार प्रदर्शन श्री. राजेंद्र सिन्नरकर यांनी केले.


विद्युत क्षेत्रातील कंत्राटदार, कन्सल्टंट्स, इलेक्ट्रिशियन, वायरमन तसेच अभियांत्रिकी महाविद्यालयातील विद्यार्थी यांनी या प्रदर्शनास उदंड प्रतिसाद दिला. त्यासोबतच आर्किटेक्ट, प्रमोटर आणि बिल्डर, पीएमसी पीसीएमसी यांच्या अधिकारी आणि कर्मचाऱ्यांनी प्रदर्शनास आवर्जून भेट दिली. इकॅम पुणेच्या एक्सपोजमध्ये सहभागी झाल्यावर निश्चितच व्यवसाय वृद्धी होते, असा अनुभव एक्सपोज मध्ये सहभागी झालेल्या अनेक कंपन्यांच्या प्रतिनिधींनी व्यक्त केला.





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इकॅम पुणे विभागाची ४० वी वार्षिक सभा...



इकॅम पुणे विभागाची ४० वी वार्षिक सभा, महालक्ष्मी लॉन्स, कर्वेनगर पुणे येथे दि. ११ डिसेंबर २०२४ रोजी संपन्न झाली.

प्रभारी सचिव श्री. अनिकेत देवकर यांनी दि. १९ ऑक्टोबर २०२४ रोजी झालेल्या ३९ व्या वार्षिक सभेचा इतिवृत्तान्त सादर केला. सभेने तो एकमताने मंजूर केला.



यावेळी व्यासपीठावर, इकॅमचे प्रभारी अध्यक्ष, श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर, इकॅम पुणेचे अध्यक्ष श्री. अनिल महाजन, उपाध्यक्ष श्री. गोरक्षनाथ शितोळे, प्रभारी सचिव श्री. अनिकेत देवकर, खजिनदार श्री. अशोक पांढरे, इकॅम पुणे एक्सपो २४ चे अध्यक्ष श्री. अमरनाथ पाटील तसेच नाशिकचे श्री. सचिन फरतडे, जळगावचे श्री. सय्यद मेहदी, कोकणचे श्री. उल्हास वजरे आणि धुळे नंदुरबार व पश्चिम महाराष्ट्राचे प्रतिनिधी उपस्थित होते. ग्रेटव्हाईट इलेक्ट्रिकल्सचे श्री. संदीप मिश्रा हेही आवर्जून उपस्थित होते. मान्यवरांचे व्यासपीठावर आगमन झाल्यानंतर, त्यांचा सन्मान करण्यात आला. यानंतर दीप प्रज्वलन करून, सभेची सुरुवात करण्यात आली.

राष्ट्रगीत झाल्यानंतर, इकॅम पुणेचे माजी अध्यक्ष कै. चिंतामणी बापट, ज्येष्ठ उद्योजक कै. रतनजी टाटा आणि इकॅम परिवारातील दिवंगत झालेले सभासद आणि काहींचे नातेवाईक यांना श्रद्धांजली अर्पण करण्यात आली.

मागील वर्षभरात संघटनेच्या वतीने जे कार्यक्रम आयोजित केले होते त्याचा आढावा, प्रभारी सचिव श्री. अनिकेत देवकर यांनी घेतला.

खजिनदार श्री. अशोक पांढरे यांनी सन २०२३-२०२४ चा



आर्थिक जमा खर्च सभेपुढे मांडला, त्यास सभेने एक मताने मंजुरी दिली.

खजिनदार श्री. अशोक पांढरे यांनी सन २०२४-२०२५ साठीचे अंदाजपत्र सभेपुढे सादर केले. तसेच पुढील आर्थिक वर्षासाठी मे. एस. बी. गुरव यांची लेखापरीक्षक म्हणून नेमणूक करण्याचा प्रस्ताव मांडला. या दोन्ही बाबींस सभेने एकमताने





मान्यता दिली.

या सभेत इकॅमचे ज्येष्ठ सभासद, तथा माजी सचिव, श्री. प्रभाकर पाटील यांना शाल, श्रीफळ आणि सलमानचिन्ह देऊन गौरविण्यात आले. श्री. संतोष एडके यांना यावर्षीसाठीचा क्रियाशील सभासद सन्मान देऊन गौरविण्यात आले.

इकॅम पुणे विभागाच्या वतीने, माजी अध्यक्ष कै. शिरीष देवधर स्मृती प्रित्यर्थ, उत्कृष्ट वीज संच मांडणीसाठी पुरस्कार दिला जातो. यावर्षी तो सन्मान मे. तांबोळी इंजिनियर्सचे श्री. परवेझ तांबोळी यांना मिळाला. प्रत्येक वर्षी संघटनेच्या वतीने गुणवंत पाल्यांचा सन्मान केला जातो. यावर्षी सुमारे २७ जणांचे कौतुक करण्यात आले.

या सभेमध्ये, इकॅम पुणे एक्सपोजे २४ चे मुख्य प्रायोजक



असलेल्या, मे. ग्रेटव्हाईट इलेक्ट्रिकल्सचे श्री. संदीप मिश्रा यांचा शाल, श्रीफळ आणि सन्मानचिन्ह देऊन विशेष सन्मान करण्यात आला.

यावेळी इकॅमचे प्रभारी अध्यक्ष, श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर, तसेच इकॅम नाशिकचे अध्यक्ष श्री. सचिन फरतडे यांनी आपापली यथोचित मनोगते व्यक्त केली.

इकॅम पुणे एक्सपोजे २४ समितीचे अध्यक्ष, श्री. अमरनाथ पाटील यांनी आपल्या मनोगतात सांगितले की, एक्सपोजे २४ यशस्वी करण्यासाठी अनेकांनी सहकार्य केले, अथक कष्ट केले. सामूहिक नेतृत्वाचा हा परिणाम आपल्याला दिसत आहे.

आयत्या वेळच्या विषयांमध्ये अनेक सभासदांनी आपल्या मनोगतात संघटनेच्या वतीने वर्षभरात सभासदांसाठी केलेल्या कामाबद्दल आभार मानले, तसेच काही अपेक्षाही व्यक्त केल्या.

इकॅम पुणेचे अध्यक्ष, श्री. अनिल महाजन यांनी आपल्या मनोगतात मागील वर्षभराच्या कारकिर्दीचा सांगोपांग आढावा घेतला. मागील वर्षभरात सर्वांनी केलेल्या सहकार्याबद्दल आभार व्यक्त केले.

या सभेचे सूत्रसंचालन श्री. योगेश पवार यांनी केले. तर आभार प्रदर्शन श्री. अजित काळे यांनी केले होते. नेहमीप्रमाणेच तांत्रिक सहकार्य श्री. राजेंद्र सिन्नरकर यांनी केले होते.

सुप्रास भोजनोत्तर, अतिशय खेळीमेळीच्या वातावरणात सभेची सांगता झाली.

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‘दुसरी हरित क्रांती घडेल’

झराज्यभरात सौरऊर्जेचा वापर करणारे सौरग्राम तयार करण्यात येत आहे. यामुळे शेतकऱ्यांना दिवसा वीज उपलब्ध होणार असून भविष्यात या हरित ऊर्जेच्या माध्यमातून महाराष्ट्रातील शेतकरी दुसरी हरित क्रांती घडवतील,’ असा विश्वास मुख्यमंत्री देवेंद्र फडणवीस यांनी व्यक्त केला.

मुंबईतील सह्याद्री अतिथीगृह येथे आयोजित कार्यक्रमात मुख्यमंत्री सौर कृषी वाहिनी प्रकल्प २.० अंतर्गत वाशिम जिल्ह्यातील उंबरठा आणि धाराशिव जिल्ह्यातील नारंगवाडी येथील प्रकल्पांचे लोकार्पण मुख्यमंत्र्यांच्या हस्ते दूरदृश्य प्रणालीद्वारे करण्यात आले. यावेळी मुख्य सचिव सुजाता सौनिक, ऊर्जा विभागाच्या अतिरिक्त मुख्य सचिव आभा शुक्ला, जलसंपदा विभागाचे अतिरिक्त मुख्य सचिव दीपक कपूर, गृहनिर्माण विभागाच्या अतिरिक्त मुख्य सचिव वल्सा

नायर-सिंह, मुख्यमंत्र्यांच्या प्रधान सचिव अश्विनी भिडे, मुख्यमंत्र्यांचे मुख्यमंत्र्यांचे सचिव डॉ. श्रीकर परदेशी यांच्यासह विविध विभागांचे प्रमुख उपस्थित होते. ‘मुख्यमंत्री सौर कृषी वाहिनी योजनेमुळे शेतकऱ्यांना दिवसा शाशवत आणि मोफत वीज उपलब्ध होईल. राज्यातील शेतकऱ्यांना १६ हजार मेगावाट इतकी वीज देतो. हे सर्व फीडर सौरऊर्जेवर आणण्याचे काम दोन वर्षांपासून सुरू केले आहे. टप्प्याटप्प्याने हे सर्व फीडर सौरऊर्जेवर आणण्यात येतील. शेतकऱ्यांना दिवसाही वीज उपलब्ध होऊ शकेल,’ असे फडणवीस यांनी सांगितले. तर या कार्यक्रमाला उंबरठा आणि नारंगवाडी गावातील शेतकरी दूरदृश्य प्रणालीच्या माध्यमातून सहभागी झाले होते.



‘प्रधानमंत्री सूर्यघर’ अंतर्गत ३१५ मेगावाट वीजनिर्मिती महावितरण देणार मोफत नेट मीटर

ग्राहकांना आता त्यांच्या मोबाइलवर दररोज वीजनिर्मिती, वीजवापर, अतिरिक्त युनिट इत्यादी माहिती मिळेल. त्यानुसार त्यांना वीजवापराचे नियोजन करता येईल. लोकेश चंद्र, अध्यक्ष व व्यवस्थापकीय संचालक, महावितरण

‘प्रधानमंत्री सूर्यघर मोफत बीजली’ या योजनेतर्गत राज्यात आतापर्यंत मंजूर प्रकल्पांत ३१५ मेगावाट विजेची निर्मिती क्षमता असून, त्यांना ६४७ कोटी रुपयांचे अनुदान प्राप्त झाले आहे. यापुढेही या योजनेचा अधिकाधिक लाभ घेण्यासाठी राज्य सरकारी महावितरणकडून त्यांना मोफत नेट मीटर दिले जाणार आहेत.

पंतप्रधान नरेंद्र मोदी यांनी महिना ३०० युनिटपर्यंत वीज वापरणाऱ्या घरगुती ग्राहकांना मोफत वीज मिळावी आणि शिल्लक असलेली अतिरिक्त वीज विकून उत्पन्न मिळावे यासाठी, ‘प्रधानमंत्री सूर्यघर मोफत बीजली’ योजना सुरू केली आहे. त्याअंतर्गत तीन किलोवॉटपर्यंतच्या क्षमतेचे प्रकल्प बसवणाऱ्या ग्राहकांना केंद्र सरकारकडून अनुदान मिळते. त्यानुसार राज्यात सध्या ३ लाख २३ हजार ग्राहकांनी महावितरणकडे या योजनेचा लाभ मिळण्यासाठी अर्ज केले आहेत. या सर्व ग्राहकांना महावितरणचे सौर नेट मीटर विनामूल्य देण्याचा निर्णय ऊर्जामंत्री या नात्याने मुख्यमंत्री देवेंद्र फडणवीस यांनी घेतला आहे.

या योजनेत ग्राहकाच्या छतावर बसवलेल्या सौरऊर्जा प्रकल्पात किती वीज तयार झाली, ग्राहकाने घरात किती



वीज वापरली व किती अतिरिक्त वीज ग्राहकाकडून महावितरणला विकली गेली, याची नोंद करण्यासाठी स्वतंत्र मीटर असते. आतापर्यंत त्याचा खर्च ग्राहकाला करावा लागत होता.

टाटा पॉवर रिन्युएबल एनर्जी या कंपनीने कॅनरा बँकेशी करार केला असून रूफ टॉप सौरउर्जा बसविणाऱ्या ग्राहकांना ७% दराने कर्ज मिळू शकणार आहे.



१० टक्के सौर ऊर्जेच्या दिशेने

राज्यातील २१,२१२ मेगावॉट क्षमतेचे करार लागले मार्गी

ग्राहकांना स्वस्त दराचा फायदा

उन्हाळ्यात विजेची मागणी वाढली की महावितरणला अतिरिक्त विजेची खरेदी करावी लागून त्याचा भार ग्राहकांवर येतो. आता मात्र ऊर्जा मंत्रालयाने उचललेल्या सौर ऊर्जा पावलांमुळे राज्यात मुबलक वीज उपलब्ध असेल. त्यामुळे ग्राहकांवर हा भार येणार नाही. तसेच, ही वीज २५ वर्षांपर्यंत मिळणार असल्याने ग्राहकांना दीर्घकाळ स्वस्त दराचा लाभ मिळू शकेल. यापुढे जाऊन राज्यात स्मार्ट शहरे विकसित होताना हरित ऊर्जा हा त्याचा कणा असेल. तसेच, २०१४ पासून मुंबईत उभ्या होणाऱ्या ३५० किमी मेट्रो मार्गिकांनादेखील ही हरित ऊर्जा मिळू शकेल. त्यातून मेट्रो तिकीट दर स्वस्त होणे शक्य असेल, असे या क्षेत्रातील तज्ज्ञांचे म्हणणे आहे.

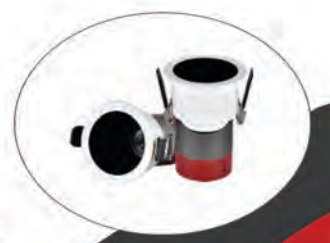
राज्य सरकारी महावितरण कंपनीकडून तब्बल २१ हजार २१२ मेगावॉट क्षमतेचे सौर ऊर्जा करार मार्गस्थ झाले आहेत. त्याआधारे राज्य स्वच्छ व पर्यावरणपुरक ऊर्जा निर्मिती अंतर्गत लवकरच एकूण मागणीच्या १० टक्के सौर उर्जेकडे जात आहे. यातून कृषिक्षेत्र व शेतकऱ्यांसाठी अखंड सौर ऊर्जा उपलब्ध होणार आहे.

केंद्रीय ऊर्जा मंत्रालयाच्या मार्गदर्शक सूचनांनुसार वीज वितरण कंपन्यांची एकूण मागणीच्या किमान २५ टक्के वीज हरित (सौर, पवन व जलविद्युत) क्षेत्रातील असणे अनिवार्य आहे. महावितरणची सध्या अशी ७,५०० मेगावॉट म्हणजेच १५ टक्के वीजच सौरक्षेत्रातील आहे. पंतप्रधान स्वच्छ ऊर्जा मिशन अंतर्गत राज्याला हरित ऊर्जेकडे नेण्यासाठी मागील सरकारमध्ये ऊर्जामंत्री असलेले

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मुख्यमंत्री देवेन्द्र फडणवीस यांनी महावितरणला अधिकाधिक सौर ऊर्जा खरेदीसाठी निविदा काढून तसेच वीजखरेदी करार करण्याचे नियोजन आखून दिले. सौरविजेचे करार मार्गस्थ होऊन त्याद्वारे येत्या काळात महावितरण ही देशातील सर्वाधिक सौर ऊर्जा ग्राहकांना वितरण करणारी कंपनी असेल, असे चित्र निर्माण झाले आहे.

यंदाच्या उन्हाळ्यात महावितरणची कमाल वीजमागणी २६ हजार मेगावॉटवर पोहोचली होती. त्यातील निम्मी वीज ही कृषिक्षेत्रातील आहे. महावितरणमार्फत पहिल्या टप्प्यात ९१६९

करणार आहे. अशाप्रकारे २० हजार १६० मेगावॉट सौर वीज राज्यात येऊ घातली आहे. यापुढे जाऊन राज्यातील जलसाठ्यांच्या उपयोग सौर ऊर्जेसाठी करण्यासाठी महावितरणने आणखी १०५२ सौर ऊर्जेसाठी करार केले आहेत. याअंतर्गत राज्यातील जलसाठ्यांच्या पृष्ठभागावर सौर ऊर्जा पॅनल स्थापित केले जाणार असल्याची माहिती अधिकाऱ्यांनी दिली.

याबाबत ज्येष्ठ वीज तज्ज्ञ अशोक पेंडसे यांनी सांगितले की, 'हे सर्व करार पुढील दोन ते अडीच वर्षांत मार्गस्थ होणार आहेत.

राज्याची कमाल वीजमागणी ३० हजार मेगावॉटवर असली तरीही, त्यातील २१ हजार ३१२ मेगावॉट व सध्या मार्गस्थ असलेली ७५०० मेगावॉट, अशी वीज सौर ऊर्जा क्षेत्रातून येईल. इतक्या मोठ्या प्रमाणात सौर ऊर्जा खरेदी करणारी महावितरण ही देशातील सर्वात मोठी सरकारी वीजकंपनी असेल. सौर ऊर्जेचा दर सरासरी ३ रुपये प्रतियुनिट असेल. मात्र ही वीज केवळ दिवसा उपलब्ध होईल. त्यामुळे औष्णिक वीज बंद होणार नसून सूर्यास्तानंतरच्या विजेसाठी ते संच सुरू असतीलच. त्याचा खर्च ग्राह्य धरून साधारण ४ रुपये प्रतियुनिटने ही वीज उपलब्ध असेल.'



- कृषिक्षेत्र व शेतकऱ्यांसाठी अखंडित सौर ऊर्जा उपलब्ध होणार
- देशातील सर्वाधिक सौर ऊर्जेचे राज्य
- महावितरणकडून आणखी १०५२ करार

मेगावॉट सौर ऊर्जेचे कंत्राट विविध कंपन्यांना कृषी सौर वाहिनींतर्गत देण्यात आले आहेत. त्यानंतर दुसऱ्या टप्प्यात कृषिक्षेत्रासाठीच आणखी ५९९१ मेगावॉटचे करार करण्यात आले. तर अदानी पॉवर कंपनीकडून महावितरण ५ हजार मेगावॉट सौर वीज थेट खरेदी

Mahindra Susten secures Rs 14.48 billion financing from HDFC Bank and Axis Bank

Martial Solren, a wholly owned subsidiary of Mahindra Susten Private Limited, has secured a rupee term loan worth Rs 14.48 billion from HDFC Bank and Axis Bank.

The funds will be utilised for the development of 560 MWp solar power projects in Gujarat and Rajasthan under long-term power purchase agreements with Gujarat Urja Vikas Nigam Limited and Rajasthan Urja Vikas Nigam Limited. The solar projects are expected to generate approximately 900,000 MWh of clean energy annually.

Lafit brings wide range of solutions in residential, commercial and hospitality space.

Lafit Lighting, India's premium architectural lighting brand has added a wide range of products to its Quik series. Since its inception, the brand has created a name for itself in the premium lighting space with its revolutionary and quality products.

Mr. Dispal Sakaria, Managing Director at Lafit Lighting believes that today light is not just a functional product but it is an important element of decor. Good lighting not only provides comfort but it also provides a mesmerizing experience. There has been significant demand for a combination of aesthetically elegant and functionally effective lighting solutions. With this thought, Lafit has developed a Quik series of products that caters to residential, commercial and retail spaces.

With a state-of-the-art manufacturing facility at Thane, Mumbai, the brand has developed revolutionary products with the support of modern machinery and latest technology. The Quik series includes a wide range of products like Down Lights, Panel Lights, COBs, Track Lights, Rope Lights, Profile Lights and other categories. With excellent quality and effective functionality, the

Quik series is advocated by a lot of architects, lighting designers and interior designers. The brand has worked with top architects and designers of India and has its product installed in prominent and renowned projects.

The company has elaborate expansion plans for the near future and increasing its retail presence is a key goal. With this aim, the brand aims at increasing its distributor and dealer network across India. With its innovative and premium products, the brand aims at creating a better lifestyle and being a change in the customer's life, hence the brand says "Be a Light".



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KUSAM-MECO has introduced a most advanced TRMS Digital Multimeter Model KM 891 having 60,000 Counts with data logging function & PC interface. It has 21 Functions & 63 Ranges. This new Digital Multimeter has 21 function packed in 1 instrument so that the user does not have to carry many instruments. The basic DC voltage accuracy is 0.03%. The instrument is water proof & dust proof with IP 65 rating. It has safety compliance CAT III 1000V & CAT IV 600V. It can capture trends and Data record / read back 20,000 records. For the safety of the instrument & the user in case of wrong test lead input, the instrument gives alarm & buzzer to warn the user. It also has date & time function. It has measuring functions

AC current, AC + DC Current, AC Voltage, AC + DC Voltage, DC Current, Resistance, Capacitance, Frequency, Temperature measurement function. A very special function in the instrument is Conductance measurement. Additionally, it has the function of duty cycle, Diode Test, continuity Test and Pulse width. It has dBV and dBm. To conserve the battery power the meter will switch off, if any switch or button is not operated for 15 minutes. It

can also display Maximum & Minimum & Relative value. Peak detection of the input value is also available in this instrument. It also has the function of Data Hold, Comparison instrument. It complies with Safety Standards IEC/EN 61010-1, EN6101-2-30 & pollution degree 2. The functions are displayed on the LCD screen graphically. Optional, facility of Bluetooth is available.

A software CD & USB cable is supplied along with the instrument, in addition to a pair of test leads. Two K-type thermocouple probe, one temperature connector, Carrying Case & Operational Manual are also supplied.



For More Details Contact :

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“KUSAM-MECO” ULTRASONIC THICKNESS GAUGE MODEL - KM 131D

“KUSAM-MECO” has introduced a new Ultrasonic Thickness Gauge Model KM -131D. The special feature of this instrument is that it controlled by a microprocessor which can measure thickness and sound speeds of various materials quickly and accurately. The instrument is capable of accurate measurement of different materials or parts in Industrial production, as well as monitoring pipelines and pressure vessels of production equipment, and corrosion degree of various parts in use. The thickness of any good conductor for ultrasonic waves with top & bottom surfaces parallel to each other, like metal, plastic, ceramic & glass, can be measured with the instrument. The instrument has a Measuring range of 1.00 to 225.0 mm thickness. It can store 500 data. The Lower limit of pipe measurement (steel) is $\Phi 20\text{mm} \times 3\text{mm}$.

It operates on rechargeable battery 3 X 1.2V. It is light weight (about 130 grams). The instrument is supplied with Sensor, Coupling agent, Calibration block.

For More Details Contact :

KUSAM ELECTRICAL INDUSTRIES LTD.

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Introduction

Braco Electricals Pvt. Ltd. Was established in 1977 by a talented and visionary electrical engineer Mr. Ramesh Sobhani. It was his vision that has today shaped into a company that is renowned for its quality, consistency and trust. All these elements are found in every product of Braco, like cable glands and terminals. Braco shares its vision for the future in a brief rendezvous.

Braco Electricals (India) Pvt. Ltd. manufactures high quality cable glands. and terminals that play a key role in any secured electrical grid. A product of superior raw materials and stringent quality checks, Braco provides hassle- free solutions for a safe network in any premises. The cable glands and terminals are extensively used in control panels, switch gears, transformers, circuit breakers and other applications in the field of power supply and distribution.

Features:

Cable glands are a small part of the electrical system; but a single error and the entire electrical installation can fall apart, posing menacing risks to people's lives. With electrical system, there's no room for negligence and thus, managing electrical installations to perfection is imperative to a safe set-up.

Cable glands are manufactured as per international standards. These cable glands are made in all sizes, Specifications and designs such as single compression type, weatherproof and flameproof, flange type, etc.

The company uses brass for industry application, while uses aluminum and stainless-steel for under water cabling.

About the company:

In any electrical system, quality of cable products is vital. Braco products are available in brass, aluminum and copper range. The company believes in providing, superior products at economical prices, timely delivery for customers to accomplish their projects on time.

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GST Council Waives GST on Penal Interest on Loans; Defers Insurance Tax Decisions amid Mixed Reactions

In a significant development at the 55th GST council meeting held in Jaisalmer (Rajasthan) concluded with several significant tax framework modifications while the much-anticipated decision on restructuring GST rates for insurance products has been postponed, sparking discussions about priorities in tax policy-making. The meeting, chaired by finance minister (FM) Nirmala Sitharaman, saw several tax-related decisions while deferring this crucial matter that affects millions of Indian households.

The postponement of insurance-related GST changes has drawn attention from policy experts and citizens alike, given the critical role of insurance in financial planning and social security. The council's decision to defer the discussion on GST restructuring for insurance products stemmed from the need for more detailed technical discussions. The Group of Ministers (GoM) on insurance, led by Bihar deputy chief minister Samrat Chaudhary, has indicated that further discussions are needed, with the next meeting scheduled for January.

The deferral comes at a time when insurance penetration in India remains significantly lower than global averages, making it a crucial policy matter. The proposed changes, including potential GST exemptions for term life insurance premiums and health insurance coverage for senior citizens, could have made insurance products more accessible to the common citizen. Former chief economic adviser Arvind Subramaniam expressed disappointment on X (formerly Twitter), describing it as a 'national tragedy' highlighting that recent GST developments as moving away from the original vision of a 'good & simple tax'.

While the insurance decision was deferred, the council made several other significant announcements. Notable among these was the clarification on popcorn taxation, which has generated considerable discussion on social media platforms. The council established different tax rates for various types of popcorn: 5% GST for unpackaged popcorn with salt and spices, 12% for pre-packaged popcorn, and 18% for caramel-coated popcorn. This detailed categorization of a common snack item has drawn attention from citizens, with some questioning the complexity of such classifications.

The council also made a significant ruling regarding banking charges, stating that no GST would be payable on penal charges or levies collected by banks and NBFCs (Non-Banking Financial Companies) for non-compliance with loan terms. This clarification helps resolve ambiguity in the banking sector regarding the taxability of such penalties. Moneylife had made a strong case for this in this article <https://www.moneylife.in/article/borrowers-reeling-from-18-percentage-gst-on-penal-charges-approved-by-rbi-on-late-payment/75344.html>

The formation of a new group of ministers to consider allowing states to levy cess under GST during natural calamities represents another significant development from the meeting. This came in response to Andhra Pradesh's request to levy a 1% cess for post-flood financial recovery.

The council also approved a new registration process for small firms, aimed at streamlining their compliance procedures. Additionally, decisions regarding GST on food delivery through e-commerce platforms were deferred for further discussion.

One notable decision from the council meeting was regarding agricultural products, specifically clarifying that black pepper (whether fresh green or dried) and raisins will not be liable for GST when supplied by agriculturists. This provides important tax relief for farmers dealing in these specific commodities. Other key decisions from the meeting included:

- Reduction of GST rate on fortified rice kernels to 5% from 18%
- Implementation of 12% GST on ACC blocks containing more than 50% fly ash
- Increase in GST from 12% to 18% on used vehicles, including smaller petrol/diesel cars and electric vehicles
- Exemption of GST on gene therapy
- Decision to keep aviation turbine fuel (ATF) outside the GST framework

The council is expected to continue its deliberations on pending matters, including insurance tax rates, in upcoming sessions.



Changes in to Posts of Maha.Govt.

1. Shri Anil Diggikar (IAS:RR:1990) General Manager, BEST, Mumbai has been posted as Additional Chief Secretary, Divyang Kalyan Department, Mantralaya, Mumbai
2. Dr.Harshdeep Kamble (IAS:RR:1997) Principal Secretary (Industries), Industries, Energy and Labour Department, Mantralaya, Mumbai has been posted General Manager, BEST, Mumbai.
3. Dr.Anbalgan P. (IAS:RR:2001) Chairman and Managing Director, MAHAGENCO, Mumbai has been posted as Secretary (Industries), Industries, Energy and Labour Department, Mantralaya, Mumbai.
4. Dr.Radhakrishnan B. (IAS:RR:2008) Joint Secretary to Chief Minister, Mantralaya, Mumbai has been posted as Chairman and Managing Director, MAHAGENCO, Mumbai
5. Shri Sanjay Daine (IAS:SCS:2012)Collector, Gadchiroli has been posted as Commissioner, Textile, Nagpur.
6. Shri Rahul Kardile (IAS:RR:2015) Collector, Wardha has been posted as Municipal Commissioner, Nashik Municipal Corporation, Nashik.
7. Smt.Vanmathi C. (IAS:RR:2015) Joint Commissioner, State Tax has been posted as Collector, Wardha.
8. Shri Sanjay Pawar (IAS:SCS:2015) Chief Executive Officer, Zilla Parishad, Chandrapur has been posted as Joint Commissioner, State Tax, Mumbai.
9. Shri Avishyant Panda, (IAS:RR:2017) Commissioner, Textile, Nagpur has been posted as Collector, Gadchiroli.
10. Shri Vivek Johnson (IAS:RR:2018) has been posted as Chief Executive Officer, Zilla Parishad, Chandrapur.
11. Shri. Annasaheb Dadu Chavan (SCS Promoted) Deputy Commissioner (Revenue) Pune Division, Pune has been posted as Chief Executive Officer, Mahtma Phule Jiavandai Arogya Yojna Society, Mumbai.
12. Shri. Gopichand Murlidhar Kadam (SCS Promoted) has been posted as Chief Executive Officer, Smart City, Solapur.



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Solar installation workshop at Vashi Integrated Solutions



Vashi Integrated Solutions is the leading all India distributor of electrical goods. They have taken a lead in providing all material required in Rooftop solar installations anywhere in India. Their hand holding has given new opportunities to many contractors.

Vashi Integrated Solutions are trying their best in offering ease of operation to the electrical contractors.

Recently, on Saturday, 14 December 2024 one workshop was organised for the benefit of the members of ECAM. This was held at the office of the company at Bhivandi. 11 people attended the workshop which started at 11.30am and was finished at 5.30 pm. Shri Madan Dodeja, founder of Vashi Integrated solutions along with two officers, Manoj Shisale and Shardul Kulkarni. Shri Satish Sinnarkar, editor, IECT, Shri Nilesh Tivramkar, Chairman, Thane region of Ecam, Shri Madhav Gadre, Secretary, Kokan

region of Ecam were the prominent participants in the workshop.

The workshop covered topics as Basics of Solar Energy, Business opportunities, study of panels, inverter, batteries, design of solar plant, harmonic analysis, protection of solar plant, net metering etc.

The team visited the solar plant of the company and got practical experience.

The hospitality of the company was excellent, breakfast and lunch was served. A certificate and gift was given to every participant. Mr Sinnarkar expressed gratitude towards Shri Dodeja and his team.

It was discussed and decided to organise such workshops in all the regions of Ecam and also invite other young people who want to start the business of solar installations anywhere.



Powergrid gets board approval to raise Rs 42.50 billion

Power Grid Corporation of India Limited (Powergrid) has received approval from its committee of directors for bonds to raise up to Rs 42.50 billion through private placement of bonds.

The funds will be raised via the Powergrid bonds – LXXX (80th Issue), which are unsecured, non-

convertible, non-cumulative, redeemable, and taxable. The issue includes a base size of Rs 10 billion with a green shoe option of Rs 32.50 billion. The bonds will have a 10-year tenure with annual interest payments. The interest rate will be determined through bidding on the electronic book provider platform.



AESL incorporates SPV for transmission services

Adani Energy Solutions Limited (AESL) has incorporated a wholly owned subsidiary named Adani Energy Solutions Step-Eleven Limited (AESSEL) to expand its presence in the transmission sector.

AESSEL has been established to focus on transmission, distribution, and supply of power, along with other related infrastructure services. The company

has been incorporated with an authorised share capital of Rs 100,000 and a paid-up share capital of Rs 100,000. Currently, the special purpose vehicle (SPV) has no turnover as it is yet to commence operations. The shares have been acquired at a face value of Rs 10 each through cash consideration, and AESL holds 100 per cent ownership in AESSEL.



Gensol Engineering secures 22 MW ground-mounted solar PV project

Gensol Engineering Limited has secured a turnkey project worth Rs 880 million for the development of a 22 MW ground-mounted solar photovoltaic (PV) power plant in Punjab. The project will feature high-efficiency bifacial solar modules, chosen to maximise energy output and ensure durability. The project will be executed over six months, with Gensol leveraging its design and execution expertise to deliver on time while optimizing energy output.



Enron is back! Rises from the Ashes

Enron Rises from the Ashes: A Controversial Comeback

Enron is back! The same Enron that burned hotter than the sun and fell just as spectacularly in 2001, marking one of the most infamous corporate implosions in history. The energy titan's reemergence has rekindled memories not just of financial scandal but of its seductive former CEO, Rebecca Mark—a figure as polarizing as she was magnetic. Known for her sharp business acumen and an undeniable allure often described as “feminine energy” or even an “oomph factor,” Mark was rumored to have cracked high-stakes deals worldwide, including in Maharashtra, India. Whispers of bribery involving top Indian politicians, though never proven, added a layer of controversy to her already storied tenure.

Now, in a twist no one saw coming, Enron is being resurrected by Harvard-educated provocateur Connor Gaydos, a 28-year-old satirist best known for his viral “Birds Aren't Real” conspiracy movement. With a legacy as scandalous as it is fascinating, Enron's return under Gaydos's cheeky leadership has sparked disbelief, curiosity, and, dare we say, a tinge of

excitement.

The Phoenix Rises (And Smirks)

The world stood still on December 2, 2024, when billboards in Houston coyly proclaimed, “We're back. Can we talk?” It was a flirtatious reintroduction—one dripping with irony for those who remember the ashes Enron left behind. Soon, a full-page ad in the *Houston Chronicle* followed, along with a flashy promotional video showcasing a sleeker, modernized Enron logo. For better or worse, the beast had been reborn.

Behind this resurrection is Connor Gaydos, a self-styled corporate provocateur best known for the “Birds Aren't Real” satirical movement. Acquiring the Enron name for a laughably low \$275 in 2020, Gaydos's brand of mockery, paired with genuine business savvy, has made him the kind of man you can't ignore. Whether this relaunch is the corporate world's most audacious joke or a real attempt to shake up energy markets remains an open—and tantalizing—question (video).

A Brief Seduction: Enron's Past

Let's not forget how we got here. In its original incarnation, Enron was the corporate darling of the

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1990s—a seductive powerhouse of innovation and audacity. But behind the charm was a rotting core. Using labyrinthine accounting schemes to disguise billions in debt, Enron projected an image of unmatched profitability. The illusion shattered in 2001 when the house of cards collapsed.

The fallout was cataclysmic. Thousands of employees were left jobless and penniless, top executives were slapped with criminal charges, and Arthur Andersen, one of the world's largest accounting firms, its statutory auditor, dissolved into oblivion. Among the indicted was Rebecca Mark, one of Enron's most prominent and glamorous executives, who played a pivotal role in expanding the company's global footprint. Though she wasn't directly implicated in the scandal, her controversial role in Enron's disastrous investment in water markets and her aggressive, high-profile leadership contributed to the company's culture of risk-taking. After resigning in 2000, Mark largely vanished from the public eye, avoiding the prison sentences that befell other executives like CEO Jeffrey Skilling and CFO Andrew Fastow. The latter served six years in prison, while Skilling, once the face of Enron's arrogance, served 12 years.



Mark's quiet exit was a stark contrast to the drama that engulfed her male counterparts. While they were tried and sentenced, she faded into obscurity, her name rarely mentioned in discussions about Enron's downfall. Yet her legacy as a key architect of its rise—and her association with its reckless ambition—remains part of the company's lore.

The Dabhol Saga: Enron's India Seduction

Enron's global ambitions extended beyond U.S. borders, with one of its most ambitious—and contentious—ventures taking root in India. The Dabhol Power Project, initiated in the early 1990s, became a lightning rod for controversy, weaving a tale of political intrigue, economic miscalculations, and cultural friction.

The project began in 1992 under Maharashtra's Congress-led government, championed by then-Chief Minister Sharad Pawar, and quickly secured a power purchase agreement with the Maharashtra State Electricity Board (MSEB). This marked the beginning of what was envisioned as a game-changing energy partnership. But the winds of political change turned against Enron when a new Shiv Sena-BJP coalition government came to power in 1995, promptly

cancelling the agreement in a fiery display of nationalist fervor. However, economic pragmatism soon prevailed, and negotiations resumed, leading to a revised agreement by early 1996.

Despite these political skirmishes, the Dabhol plant's first phase became operational by 1999, delivering 695 megawatts of power. But the arrangement proved economically unsustainable, as MSEB struggled to meet the exorbitant costs of electricity, resulting in mounting debts. By 2001, MSEB owed \$45 million to the Dabhol Power Company. This financial strain, compounded by public and political opposition, culminated in the Maharashtra government's decision to terminate the agreement. Shortly thereafter, operations at Dabhol ceased, leaving behind a behemoth of unfinished infrastructure.

When Enron filed for bankruptcy in late 2001, Dabhol's fate became even murkier. Legal disputes over the assets ensued, with Enron attempting to

recoup losses through claims against U.S. investment agencies. Ultimately, the once-grand project was salvaged by Indian entities, with its assets transferred to Ratnagiri Gas and Power Private Limited (RGPPL).



Today, the Dabhol Power Station stands as a relic of Enron's ambition, symbolizing both the opportunities and pitfalls of foreign investment in India's energy sector—a sobering footnote in the company's turbulent history.

Satire or Serious Business?

Coming to comeback, the answer isn't clear, and that's precisely the point. Gaydos thrives in ambiguity. On one hand, the “new” Enron talks about “scalable, sustainable solutions” and solving the energy crisis. On the other, its website features a disclaimer that it's “First Amendment-protected parody.” And then there's Gaydos himself, whose very existence seems designed to blur the lines between jest and genius.

Yet whispers of something more serious lurk beneath the theatrics. Rumors abound about a cryptocurrency initiative or even a breakthrough energy technology to be unveiled at the so-called “Enron Power Summit” on January 6, 2025. If true, this may be more than just an elaborate performance art piece.

A Pie in the Face (Literally)

As if the circus wasn't lively enough, Gaydos recently found himself the star of a viral video for reasons as absurd as they are symbolic. Entering a



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building in New York, the young CEO took a cream pie to the face—an unmistakable callback to the infamous Bill Gates incident decades earlier. Social media exploded, with memes likening Gaydos to a modern-day corporate jester.

But if the pie was meant to humiliate, Gaydos didn't flinch. His response? A cheeky tweet: "Well, at least it wasn't Enron's accounting team throwing that thing." The man clearly knows how to play to an audience.

The World Awaits: Farce or Fortune?

So here we are, perched on the edge of the unknown, waiting for January 6. Will the "Enron Power Summit" deliver groundbreaking innovation, or will it reveal this entire escapade as a glorified punchline? Maybe that's the brilliance of Connor Gaydos's game—he's making us pay attention to a name we thought was buried in the annals of corporate infamy.

The tension is palpable. Is this a genuine attempt to rewrite history, a commentary on the absurdity of corporate culture, or both? Speculation has even turned to India, where Enron's infamous Dabhol Power Project left behind unfinished infrastructure and haunting memories of alleged bribery and ambition gone awry. Could relics of Enron's past rise from the ashes on Indian soil? Or might new power players—Adani, Ambani (Anil), et al—step into the fold, not necessarily in league

but perhaps as opportunistic collaborators? Such a partnership, if it were to emerge, could redefine the energy sector and give this narrative an unexpected global twist as well as spicy tales.

As one bewildered observer put it, "It's like watching a soap opera where the villain comes back from the dead—completely implausible, but you can't stop watching."

And that, perhaps, is the magic of the New Enron. In a world saturated with cynicism, it has managed to grab our collective imagination, even if just for a moment. Whether it soars like a phoenix or crashes (again) in spectacular flames, one thing is certain: we're all watching.

And isn't that what Enron has always been about—commanding attention, for better or worse?

(This article first appeared on Mr Sidhu's page The KBS Chronicles, on substack.com)

Courtesy: The KBS Chronicles



(Karan Bir Singh (KBS) Sidhu is an officer from the Indian Administrative Service (IAS) cadre (1984 batch). After 37 years of service, he retired as Special Chief Secretary of the Punjab government on 31 July 2021.)

Polycab, India's largest manufacturer of wires and cables, in collaboration with CNBC-TV18, launched a pioneering initiative—Infra Safety:

India's journey to becoming a developed nation by 2047, as envisioned in the Viksit Bharat mission, pivots on robust growth in real estate, manufacturing, and mobility. Amid this rapid transformation, electrical safety has emerged as a non-negotiable priority.

Recognizing this, Polycab, India's largest manufacturer of wires and cables, in collaboration with CNBC-TV18, launched a pioneering initiative—Infra Safety: Powering India's Electrical Future—that brings together stakeholders to spotlight the criticality of electrical safety and deliberate solutions that will pre-empt hazards due to electrical mishaps.

Electrical Safety Matters

According to the National Crime Records Bureau, nearly 20% of fire incidents in India are attributed to electrical short circuits, with this figure estimated at 70% in cities like Mumbai, according to experts. The reasons range from improper wiring and human error in installation to out-dated electrical systems unable to handle increased energy demands. Given that India has world-class capabilities in products and technology, many of these mishaps are avoidable.

Focus on Real Estate

India's real estate sector, the second-largest employment generator, employs 18% of the national workforce. Its rapid vertical growth, particularly in cities like Mumbai, calls for stringent electrical safety standards to safeguard lives, infrastructure, and aspirations.

The first Infra Safety conclave focused on electrical safety in Real Estate and brought together several leadership voices, including Dr Niranjan Hiranandani and senior MEP consultants as well as public safety officials from the Fire Safety Department. The discourse aimed to bring the need for electrical safety awareness to the public. The conclave is the first in a series that will also look at highlighting safety issues in manufacturing and transportation

Collaborative Campaign

The campaign aims to raise awareness about the critical importance of electrical safety, targeting both consumers and professionals to foster a deeper understanding of its role in safeguarding lives and

infrastructure. It seeks to encourage the adoption of stringent safety standards and emphasizes the need for regular audits to ensure systems remain robust and secure and meet the growing use of electrical equipment over time.

Additionally, the initiative highlights the transformative potential of emerging technologies such as IoT and advanced cabling solutions, promoting innovation as a key driver for a safer and more sustainable future.

Maiden Conclave in Mumbai

Mumbai, India's financial capital, embodies both the challenges and opportunities of ensuring electrical safety in high-rise buildings. With the city of dreams' status as a role model for the rest of the country, it became the natural choice for the launch of the campaign.

The evening soon turned into a learning experience with the presence of luminary stakeholders from various domains who candidly shared their knowledge and insights. During his opening remarks, Rajashekhar Reddy, Vice President - Marketing at Polycab, set the tone for the discussions by emphasizing the critical importance of raising awareness about electrical safety among consumers, which can reduce accidents and save human lives.

Safety Culture Gap

India's culture of jugaad—relying on makeshift solutions—often undermines safety. As Rajeev RA, former metropolitan commissioner, pointed out in his Keynote Address, the lack of a safety culture is a significant obstacle. While regulations exist, their implementation and regular follow-ups remain inconsistent.

To bridge this gap, experts at the conclave emphasized the need for mandatory training programs to certify electricians and enhance their technical proficiency. They also highlighted the importance of educating consumers about the value of using quality products and ensuring skilled installations. The deliberations called for robust policy frameworks to establish and enforce safety norms, ensuring accountability and adherence across all stakeholders.

Building a Safer Skyline

The first panel discussion of the evening was themed Fortifying Mumbai's Skyline: Enhancing Electrical Fire Safety in High-Rise Buildings. Moderated by Mangalam Maloo, CNBC-TV18, it underscored the critical importance of safety standards. This discussion took place against the backdrop of the city's anticipated 34% growth in skyscrapers by 2030.

Ashish Rakheja, Managing Partner, AEON Integrated Building Design Consultants LLP observed that although codes and standards related to fire are most stringent and there is ample regulation at all levels, right from manufacturing to installation, the risks get built in thereafter, during operations and maintenance. Dr Deepak Ghosh, Deputy CFO, Mumbai Fire Brigade, highlighted the irony of consumers investing heavily in property while hesitating to spend on timely electrical audits of their homes and buildings, thereby risking lives and being exposed to costly consequences. This underlines the fact that safety is an investment, not a cost.

Dr. Niranjan Hiranandani, Founder and Chairman of the Hiranandani Group, underscored the importance of educating homeowners about the load-bearing

capacities of their electrical systems. He pointed out that particularly in older homes, in the wake of the rising usage of electrical equipment over the years, regular audits and suitable maintenance is a necessity to ensure safety. Drawing a stark analogy to make the point, Bhushan Sawhney, Executive President of Polycab, cautioned that installing sub-standard products is as perilous as driving without airbags. The panellists were in consensus on the critical role of awareness, education, and proactive actions in mitigating electrical risks.

Innovations Driving Change

Emerging materials technology and innovative digital solutions are transforming electrical safety. IoT devices can offer proactive safety by detecting potential issues such as overheating or gas leaks before they escalate into hazards. Meanwhile, advancements in nano-polymers are enhancing the durability and safety of cables, ensuring they can withstand higher demands with greater reliability. Thinking ahead, Bharat Jaisinghani, Executive Director, Polycab, remarked on the scope for the use of Artificial Intelligence to revolutionize cable selection by providing precise

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recommendations tailored to specific applications, optimizing both performance and safety. These breakthroughs can redefine how we approach electrical infrastructure.

Polycab, as a leader in electrical safety, has been at the forefront of these innovations. "We want to be a solutions provider, not just a supplier," affirmed Bhushan Sawhney, Executive President & Chief Business Officer, Polycab, during a Fireside Chat on Safety first: Strengthening the Electrical Backbone of Construction. The company offers training programs in multiple languages and invests in R&D to create safer, more eco-friendly products." In an earlier televised episode on the same subject, Bhushan emphasized that "India is in a build mode and the real estate market in India is poised to touch USD 1 trillion in 2030 and will continue to grow exponentially. Hence it is incumbent on all stakeholders to make Viksit Bharat also Surakshit Bharat."

Real Estate and Cabling Solutions

The second panel at the conclave, moderated by Gautam Srinivasan of CNBC-TV18, explored the transformative role of cabling solutions in shaping the future of real estate. The discussion focused on emphasizing the importance of adhering to high safety benchmarks through robust standards and certifications. Panelists also highlighted emerging trends, such as green certifications and fire-retardant materials with low smoke emissions, as pivotal advancements driving safer and more sustainable real estate developments.

Building a Viksit and Surakshit Bharat

The success of India's Viksit Bharat mission hinges on safety and sustainability. From policymakers to consumers, everyone has a role to play and

participants at the first conclave of the campaign pledged their support.

As the Infra Safety campaign demonstrates, collaboration is key to creating infrastructure that not only powers progress but also safeguards lives. Prioritizing electrical safety can ensure that India's growth story is one of resilience, innovation and shared prosperity.

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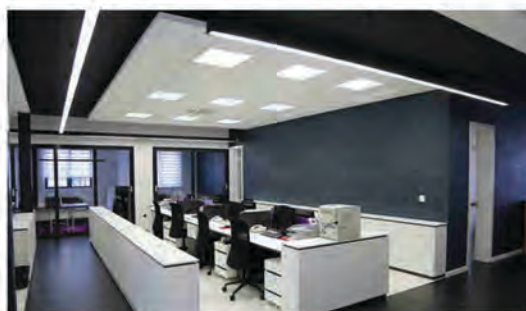
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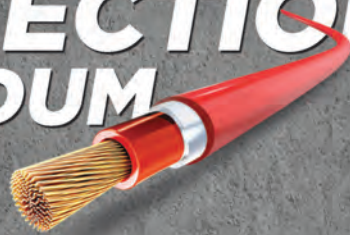
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