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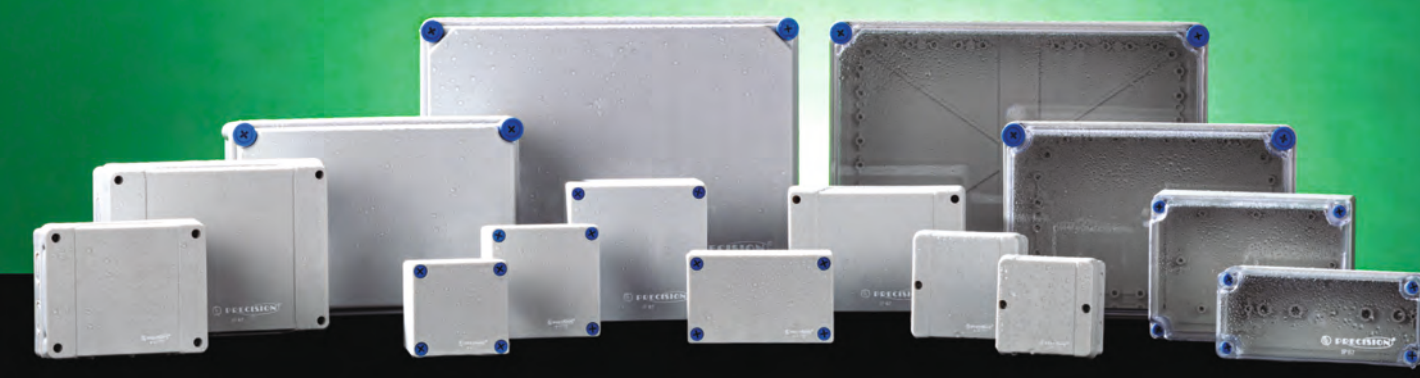

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उमेश रेखे
अध्यक्ष, इकॅम

नमस्कार सभासद बंधुंनो आणि भगिनींनो,

प्रथमतः दीपावली व नूतन वर्षाच्या तुम्हां सर्वांना हार्दिक शुभेच्छा !

गेल्या महिन्यांत दि. १६ ऑक्टोबर रोजी नाशिक विभागाची वार्षिक सभा संपन्न झाली. त्यामधील सर्व कार्यक्रम (वार्षिक सभा तसेच हास्यजत्रा फेम सांस्कृतिक कार्यक्रम) अतिशय उत्कृष्टरित्या पार पडले. त्यासाठी नाशिक विभागाचे अध्यक्ष श्री. सचिन फरतडे, सचिव श्री. सुशील भुरे व त्यांच्या सर्व कार्यकारीणीने कार्यक्रमाचे उत्कृष्ट नियोजन केले होते. त्याठिकाणी विविध कंपन्यांचे एकंदर २५ स्टॉलचे प्रदर्शन लावण्यात आले होते. कार्यक्रमाला मोठ्या संख्येने सभासदांची सहकुटुंब उपस्थिती होती. कार्यक्रम सुंदररित्या पार पडण्यासाठी नवीन तरुण संचालकांना जुन्या सभासदांची साथ होती. तसेच दि. २५ व २६ ऑक्टोबर रोजी जळगाव व धुळे नंदुरबार विभागाच्या वार्षिक सभा संपन्न झाल्या. दोन्ही ठिकाणी विविध कंपन्यांचे एकंदर २० ते २२ स्टॉलचे प्रदर्शन लावण्यात आले होते. कार्यक्रमाला मोठ्या संख्येने सभासद उपस्थित होते. दोन्ही कार्यक्रमांचे नियोजन अतिशय नेटके करण्यात आले होते. विशेषतः जळगांव मध्ये अध्यक्ष श्री. बाबुभाई मेहदी, सचिव श्री अनिकेत पवार व त्यांच्या सहकाऱ्यांनी विशेष परिश्रम घेवून कार्यक्रमाची नेटकी व्यवस्था केली होती. तसेच सर्व जळगाव कार्यकारीणी अतिशय चांगले काम करत असून त्यांना खूप खूप शुभेच्छा!

धुळे नंदुरबार विभागात अध्यक्ष श्री. प्रवीण बडगुजर, सचिव श्री. अनिल पवार व त्यांच्या कार्यकारीणीने मुख्य कार्यालयाच्या मासिक बैठकीचे तसेच त्यांच्या वार्षिक सभेचे उत्कृष्ट नियोजन केले होते. दिवसेंदिवस धुळे नंदुरबार विभागाची प्रगती अतिशय वाखाणण्याजोगी होत असून त्यांना खूप खूप शुभेच्छा ! दोन्ही वार्षिक सभांना त्या त्या विभागातील सभासदांची तसेच इतर विभागातून आलेल्या सभासदांची उपस्थिती लक्षणीय होती. नुकताच महावितरण कंपनीने त्यांचा २०२४-२५ साठीचा कॉस्ट डाटा प्रकाशित केला असून त्यामध्ये कामाच्या दर सूची मध्ये चांगल्या प्रकारे वाढ झाली आहे. त्यासाठी आपल्या संघटनेने केलेल्या प्रयत्नांना यश मिळाले असे मला वाटते. त्यासाठी पॉवर सप्लाय कमिटीचे विशेष अभिनंदन !

येत्या नोव्हेंबर महिन्यात कोकण विभाग व पश्चिम महाराष्ट्र विभागाच्या वार्षिक सभा होत असून त्या सभांना मोठ्या संख्येने आपली उपस्थिती प्रार्थनीय आहे.

तसेच डिसेंबर १०, ११ रोजी पुणे विभागाने २ दिवसांचे भव्य प्रदर्शन आयोजित केले असून त्यासाठी आपण आपल्या तारखा राखीव ठेवायच्या असून नवीन उत्पादने व तंत्रज्ञान अवगत करण्याच्या संधीचा लाभ घ्यावा. अंततः विद्युत क्षेत्रात मोठ्या प्रमाणावर बदल घडत असून आपण आपल्या पारंपरिक कामाबरोबरच नवीन तंत्रज्ञान आत्मसात करून घेणे अत्यंत गरजेचे आहे व या स्पर्धात्मक युगात टिकण्यासाठी सोलर सारख्या नवीन क्षेत्रात पदार्पण करणे गरजेचे आहे.

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इकॅम अहमदनगर विभागाची २६ वी वार्षिक सभा दिनांक २८ सप्टेंबर २०२४ रोजी संध्याकाळी ४.३० वाजता हॉटल संजोग, नगर-मनमाड रोड, अहमदनगर येथे खेळीमेळीच्या वातावरणात संपन्न झाली. सदर प्रसंगी कौटुंबिक कार्यक्रमांचे आयोजन करण्यात आले होते. तसेच विद्युत साहित्याचे प्रदर्शन आयोजित करण्यात आले होते. या कार्यक्रमांना सभासदांचा उस्फूर्त प्रतिसाद मिळाला. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकुर, खजिनदार श्री. रावसाहेब रकिबे तसेच सर्व विभागिय चेअरमन आणि संचालक उपस्थित होते. वार्षिक सभेनंतर सुरूची भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

इकॅम जळगाव विभागाच्या वतीने दिनांक १३ ऑक्टोबर २०२४ रोजी हॉटेल फोर सिजन (हॉटेल मैत्रेयाज), जळगाव येथे मराठा चेंबर ऑफ कॉमर्स अँड इंडस्ट्रिज या नामांकीत संस्थेच्या वतीने जळगाव विभागातील सभासदांसाठी GST आणि Input Tax Credit या विषयावर चर्चासत्र आयोजित करण्यात आले होते. या साठी GST तज्ञ श्री. अमेय कांकरीया GST विषयावर आणि चार्टर्ड अकाऊटंट जळगाव असोसिएशनचे अध्यक्ष श्री. अभिषेक कोठारी सर यांनी Input Tax Credit या विषयाबाबत महत्वाची माहिती सभासदांना दिली. तसेच MSME चे श्री. अनिरूध्द ब्रम्हे, श्री. अमेय भोई आणि इकॅमचे संचालक श्री. नरेंद्र शिंदेकर यांच्या सहकार्यामुळे सदर कार्यक्रम पार पडला.

इकॅमच्या मुंबईच्या संचालकांनी दिनांक १७ ऑक्टोबर २०२४ रोजी सार्वजनिक बांधकाम खात्यामध्ये वांद्रे विभागात नियुक्ती करण्यात आलेले विद्युत निरिक्षक श्री. सुधीर राठोड यांची सदिच्छा भेट घेऊन त्यांचे पुष्पगुच्छ देऊन स्वागत करण्यात आले. या प्रसंगी मुंबईचे संचालक श्री. राज शहा, श्री. कमलेश पटेल, श्री. पुरन सागर, श्री. नंदकिशोर बडगुजर, श्री. राजेंद्र गरगवे, श्री. शेषकुमार शर्मा आणि श्री. विजय पुराणिक उपस्थित होते. याप्रसंगी विद्युत ठेकेदारांना येणाऱ्या काही अडचणींबाबत चर्चा करण्यात आली.

इकॅम नाशिक विभागाची ३४ वी वार्षिक सभा दिनांक १९ ऑक्टोबर २०२४ रोजी संध्याकाळी ५ वाजता डेमोक्रेसी, सातपुर, नाशिक येथे खेळीमेळीच्या वातावरणात संपन्न झाली. सदर प्रसंगी कौटुंबिक स्नेहसंमेलन आयोजित करण्यात आले होते. तसेच विद्युत साहित्याचे प्रदर्शन आयोजित करण्यात आले होते. याप्रसंगी सुप्रसिध्द कलाकार श्री. शाम राजपुत, श्री. अरूण कदम, वनिता खरात आणि शिवाली परब यांचा 'हास्य मनोरंजन' आणि श्री. शाम बांगर प्रस्तुत 'संगीत रजनी' या कार्यक्रमांचे आयोजन करण्यात आले होते. या कार्यक्रमांना सभासदांचा उस्फुर्त प्रतिसाद मिळाला. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकुर, खजिनदार श्री. रावसाहेब रकिबे तसेच सर्व विभागिय चेअरमन आणि संचालक उपस्थित होते. सदर भव्य दिव्य कार्यक्रम हा शताब्दी वर्षाला साजेसा होता. शताब्दी वर्षाच्या पार्श्वभुमीवर नाशिक विभागाने आयोजित केलेला हा भव्य दिव्य कार्यक्रम इतिहासात कायम स्मरणात राहील. वार्षिक सभेनंतर सुरूची भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

दिनांक २५ ऑक्टोबर २०२४ रोजी इकॅम जळगाव विभागाची तसेच दिनांक २६ ऑक्टोबर २०२४ रोजी इकॅम धुळे नंदुरबार विभागाची वार्षिक सभा आयोजित करण्यात येत आहे. विभागातील सभासदांनी सदर वार्षिक सभांस उपस्थित राहून सदर वार्षिक सभा यशस्वी कराव्यात असे आवाहन मी करत आहे.

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Satish Sinnarkar
Editor, IECT

Ratan Tata: The investor, mentor and guiding force for countless startups

Ratan Naval Tata, the former Chairman of Tata Sons who passed away at 86 on October 9 in Mumbai's Breach Candy hospital, emerged as a significant figure in India's startup ecosystem, offering crucial support to young entrepreneurs and startups. After his retirement in 2012, the industry stalwart Tata shifted his focus towards nurturing the new wave of entrepreneurship in India, playing the role of an investor, mentor, and guiding force for countless startups.

Ratan Tata made his first notable startup investment in 2014 when he invested in Snapdeal, marking his entry into the entrepreneurial ecosystem. Since then, he backed 46 startups, as per Tracxn, across sectors such as e-commerce, technology, fintech, health tech, and more.

Beyond financial investments, Ratan Tata was also known for offering invaluable mentorship to startup founders. His business acumen, built over decades of experience leading one of India's largest conglomerates, made his advice highly sought after. Founders often credited Tata for guiding them on business strategy, leadership, innovation, and scaling their ventures. His humility and approachable nature also made him a mentor figure for many young entrepreneurs.

Tata was a strong advocate of risk-taking and innovation in business. He believed that startups should not shy away from challenging the status quo or disrupting traditional industries.

However, he hadn't thought out to become a startup investor. In 2019 during an interaction with VC firm Chiratae Ventures Chairman Sudhir Sethi, Tata had recalled that his role as a startup investor was accidental.

"I entered the startup investor partly by accident. During the years that I was with the Tata group, I always looked at the startups as a sector that is exciting but somewhat untouchable because somewhere or other there will be conflict of interest with Tata Group," Tata told Sethi in a talk, PTI had reported.

He has said, "When I retired I was free from it and I started making small token investments from my own pocket in what I considered to be exciting companies. So, what I did was to take some more risks than I might have taken under different circumstances,"

One of the defining features of Tata's approach to startups was his emphasis on ethical business practices. He encouraged founders to not only focus on profit but also on building companies that positively impact society. His personal values of integrity, responsibility, and social impact reflected in his support for businesses that aim to make a difference, whether in healthcare, education, or financial inclusion.

Overall, Ratan Tata's involvement in the startup space provided a massive boost to India's entrepreneurial landscape. His backing enhanced investor confidence in the Indian startup scene and inspired many traditional investors to explore early-stage ventures. His influence played a pivotal role in making startups a mainstream part of India's economic fabric.

- "In my case it was selection from intuition, in fact I would say talking with the founders, drawing conclusions from their attitude, maturity and their seriousness meant more to me than any other thing or factor," the then 81-year-old had said.
- "I don't believe in taking right decisions. I take decisions and then make them right."
- "Risk is part of the process of success. Failure teaches us what works and what doesn't, and it gives us resilience to pursue success with more vigor."
- "I admire people who are very innovative, people who break rules and create something new and different."
- "I think that when you're doing something new, you've got to have the passion and commitment to follow it through."
- "Ups and downs in life are very important to keep us going, because a straight line, even in an ECG, means we are not alive."
- "None can destroy iron, but its own rust can! Likewise, none can destroy a person, but his own mindset can."
- "The early Rockefellers made their wealth by hiring people smarter than themselves. Be unafraid to hire people who are smarter than you."
- "If you want to walk fast, walk alone. But if you want to walk far, walk together."
- "I've always been a strong believer that the people who go through those difficult times, when they come out of it, become much stronger and much more resilient."
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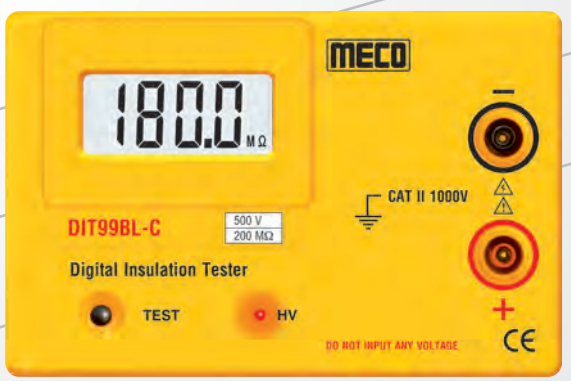

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Jointing kits for wires and cables

Here's an overview of jointing kits :

Types of Jointing Kits:

1. Mechanical Jointing Kits : Use bolts, nuts, or screws to secure wires.
2. Crimping Jointing Kits : Utilize crimping tools to join wires.
3. Soldering Jointing Kits : Employ soldering irons and solder to join wires.
4. Insulation Displacement Jointing Kits: Use specialized connectors to join wires without stripping insulation.
5. Heat-Shrink Jointing Kits : Use heat-shrink tubing to insulate and protect joints.

Components of Jointing Kits :

1. Connectors (e.g., lugs, terminals, splices)
2. Crimping tools (e.g., wire strippers, crimpers)
3. Soldering irons and solder
4. Insulation materials (e.g., heat-shrink tubing, electrical tape)
5. Protective covers (e.g., boots, sleeves)

Applications:

1. Electrical installations (residential, commercial, industrial)
2. Automotive (wiring harnesses, battery connections)
3. Telecommunications (fiber optic connections, network cabling)
4. Industrial control systems (motor control, automation)
5. Renewable energy (solar, wind power connections)

Benefits:

1. Reliable connections
2. Reduced electrical noise
3. Improved safety
4. Increased efficiency
5. Cost-effective

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Selection Criteria:

1. Wire size and type
2. Connection type (e.g., butt splice, tee connection)
3. Environmental conditions (e.g., temperature, humidity)
4. Current rating
5. Voltage rating

When choosing a jointing kit, consider the specific application, wire type, and environmental conditions to ensure a reliable and secure connection.

Union Cabinet approves India's entry into IEEH

The Union Cabinet has approved India's decision to join the International Energy Efficiency Hub (IEEH), allowing the country to collaborate with 16 other countries in sharing energy strategies and innovative solutions to improve energy efficiency.

The IEEH brings together governments, international organisations, and private sector entities to exchange knowledge and best practices. India's participation will create opportunities for collaboration, enabling it to learn from international practices and contribute to global efforts in promoting energy-efficient technologies. The Bureau of Energy Efficiency will oversee the country's involvement in the hub, ensuring alignment with national energy goals.

Google and CleanMax collaborates for 125.4 MW hybrid project

Google has partnered with Clean Max Enviro Energy Solutions Private Limited to establish a 125.4 MW hybrid project, of which 66 MW will be a solar power plant in Rajasthan and the remaining 59.4 MW will a wind generation plant in Karnataka.

The projects will be connected to the national grid of India. The aim of the partnership is to support Google's decarbonisation of cloud services and offices in India. The projects is expected to begin commercial operations from the fourth quarter in 2025 and generate an estimated 350,000 million kWh of carbon free energy annually.

Ahasolar Technologies receives Rs 16.5 million order to develop online portal for PM Surya Ghar

Ahasolar Technologies Limited has received an order worth Rs 16.5 million from Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH to develop an online national portal for the PM Surya Ghar: Muft Bijli Yojana.

This portal will process rooftop photovoltaic (PV) applications under the scheme and provide capacity-building support to discoms. The project will also include consultancy support to the REC Limited for implementing the scheme and will focus on providing training and coordination to discoms across India. The work order is to be completed within six months.

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Power plants may not need to install Sulphur removing gear as study shows emissions are not impacting air quality

India could halt installation and award of new flue gas desulphurisation (FGD) units at public sector coal-based power plants as a recent study found that sulphur dioxide emissions from Indian coal-based power plants were not adversely impacting ambient air quality.

Niti Aayog, the government's premier think-tank, has held stakeholder consultations in this regard and is likely to recommend this in its final report by month end, officials said.

The Aayog had made such a suggestion in a draft report, after which intensive consultations were carried out before firming up the view, they said.

"There is no advantage in installing FGD in Indian coal-based low sulphur thermal power plants. This will only increase power generation cost," an official aware of the contents of NITI's draft report told ET.

FGD technique removes hazardous sulphur dioxide (SO2) from the exhaust of fossil fuel-burning power plants.

An environment ministry notification dated September 2022 mandates all coal-fired thermal power plants in the country to comply with SO2 emission norms by December 2026 or shell out a penalty, payable on per unit electricity generated, if they are not compliant beyond the deadline. However, the Aayog is of the view that the government can keep the power generation cost under check by doing away with FGD units.

"It is now recommended that placement of new orders for installation of FGD may be stopped," the Aayog's draft report said while suggesting that all thermal power plants (TPP) where FGD is already installed should be used for data collection.

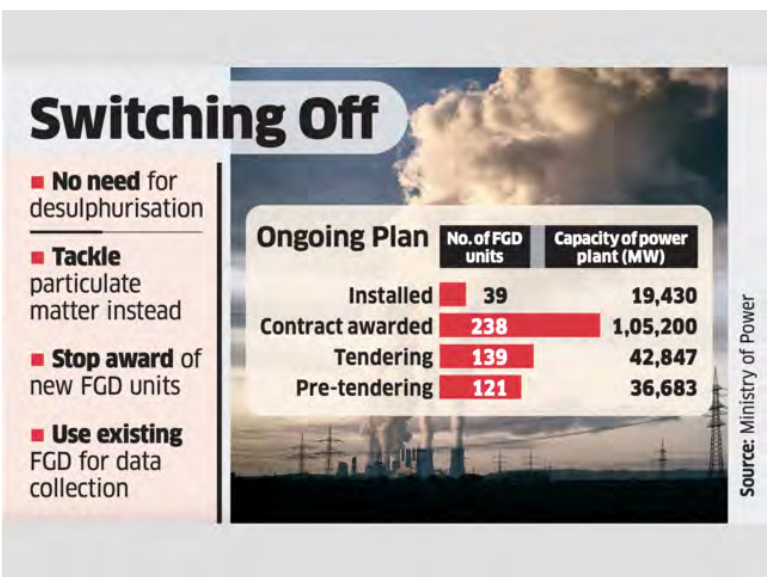
The move comes after a study conducted by the Council of Scientific & Industrial Research (CSIR)-National Environmental Engineering Research Institute (Neeri) found that SO2 emissions from Indian coal-based power plants were not adversely impacting ambient air quality.

The CSIR-Neeri study has instead shifted focus to particulate matter (PM), which exceeds emission regulation.

Senior government officials have also flagged huge financial implications of FGD units. "This data will assess if there is any cost benefit analysis and impact on power tariff," the draft report said.

The cost of an FGD system varies from ₹1.25 crore to ₹2.0 crore per megawatt (MW). India's total installed thermal power capacity is expected to be 283 GW by 2030-31.

There are 39 FGD units deployed at 19,430 MW of coal-fired power projects in the country. These FGD units were installed to curb pollution by lowering emission of sulphur dioxide (SO2) from coal-based power plants.



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Tata Projects sees green hydrogen, green ammonia, pump storage hydro as pillars of growth

"Sustainability is a critical element for us and we see in this sustainability journey, a lot of opportunities will open up in new sectors," said Vinayak Pai, MD & CEO, Tata Projects in an interview

Having built industrial units, hotels, hospitals, airports, dedicated freight corridors, metro rail lines, stations, data centres and power transmission lines, Tata Projects Limited, a leading EPC contractor majority owned by Tata Sons, is looking to build green hydrogen and green ammonia units as part of it's future expansion strategy.

"Sustainability is a critical element for us and we see in this sustainability journey, a lot of opportunities will open up in new sectors," said Vinayak Pai, MD & CEO, Tata Projects in an interview.

"Green hydrogen, green ammonia is one thing which I believe will accelerate over the next few years. Since India is very well placed because of the high percentage of renewable energy generation, mainly solar energy generation, that power can be used to generate either hydrogen or ammonia, which can then be stored and transported," he said.

Tata Projects launches skilling programmes to empower workforce

Mr. Pai said the "other is the new concept of pump storage hydro where you build basically to pump water in the daytime when you have renewable energy, and then you generate electricity in the night."

"All these are ways of harnessing the renewable energy and because of our experience of hydrocarbons through our oil, gas and hydrocarbon business, we have a good experience of hydrogen which is a very difficult element to handle," he added.

The company is also seeing opportunities in sustainable aviation fuel, biofuels for which it can build biomass reactors for its customers.

Besides this, since India is moving to be a manufacturing hub including for EVs, Tata Projects is looking at opportunities in building battery manufacturing units and facilities that will be recycling the batteries.

Apart from tapping into growth opportunities, the company is building capabilities to execute and deliver projects with more predictably both in terms of cost and time frame.

"Our focus is intensely on how we can be the best at delivering projects and that's why we put more emphasis on predictable project delivery," Mr. Pai said

"Predictably, in terms of time, cost, safety, quality. is not great today. Thats not only in India, it's there globally. So there is a lot of opportunity to plan better and to do projects more predictably," he said. "If we do that, we will be sought after globally," he added.

Having turned into profits last year [₹139 crore on revenues of ₹17,247 crore in FY24] after two years of losses [due to the impact of COVID on projects] Tata Projects is now looking at double digit growth in FY26.

"Double digit growth for sure. I would say it will start as a low double digit and more rapidly move to high double digit, both in terms of top line and bottom line," Mr. Pai said.

General Motors launches residential storage system

The US-based automotive manufacturing company said its new storage system offers the option of integrating with PV systems. It can be scaled to reach a capacity of up to 35.4 kWh, which the company said would enable approximately 20 hours of storage.

Front view of the GM Energy PowerBank, which comes in in 10.6 kWh (pictured) and 17.7 kWh battery capacity variants, can provide power to a home when there is an outage or help to offset higher electricity rates during peak demand

US-based automotive manufacturing company General Motors (GM) has announced that its GM Energy unit has launched a modular storage energy system for residential applications.

"GM Energy is expanding its portfolio with the launch of the GM Energy PowerBank, a stationary storage product that gives EV owners the power to store and transfer energy from the grid, and the option of integrating with solar power equipment," the company said in a statement.

The system is available in two versions with a capacity of 10.6 kWh and 17.7 kWh, respectively, and can be scaled to reach a capacity of up to 35.4 kWh, which the manufacturer said would enable approximately 20 hours of storage, assuming the average daily home energy appliance usage in the United States is approximately 30 kWh.

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MNRE Launches PM Surya Ghar: Muft Bijli Yojana to Enlist 25,000 Vendors for Rooftop Solar Installations Across India

The Ministry of New and Renewable Energy (MNRE) has officially launched the PM Surya Ghar: Muft Bijli Yojana, an ambitious initiative aimed at installing rooftop solar systems (RTS) for one crore households across India by March 2027. To support this initiative, the MNRE is seeking to enlist approximately 25,000 vendors to facilitate the rollout of these solar installations.

This scheme focuses on generating clean energy through residential rooftop solar systems, contributing to India's renewable energy goals. The total market potential for this initiative is significant, estimated at ₹1,45,000 crores, based on benchmark costs for installing 3 kilowatt (KW) systems in one crore households. Additionally, registered vendors will benefit from Central Financial Assistance (CFA) of up to ₹78,000 per household, making the scheme financially appealing for both vendors and homeowners.

Currently, there are around 8,000 vendors registered under the scheme. However, to meet the growing demand for rooftop solar installations, the government aims to expand this number to 25,000. While established states like Gujarat, Maharashtra, Uttar Pradesh, Kerala, and Tamil Nadu are witnessing high growth rates in rooftop solar installations, there are numerous opportunities in the Northeastern Region (NER) and various Union Territories (UTs) that remain untapped.

To assist prospective vendors, the Renewable Energy Corporation (REC) has initiated several supportive programs. The REC's Vendor Management Division provides ongoing assistance through weekly interactions, dedicated email support, and capacity-building initiatives to guide vendors through the registration and operational processes.

Interested individuals, firms, and companies will receive detailed information about the scheme, including the vendor registration process on the National Portal. This portal streamlines the implementation of solar installations, ensuring efficiency. Furthermore, the REC will guide participants in capacity-building programs supported by the MNRE, equipping them with the necessary skills to contribute effectively to the initiative.

As a registered vendor, participants will play a vital role in the entire lifecycle of rooftop solar installations. Their responsibilities will include system design, component supply, installation, commissioning, and offering a Comprehensive Maintenance Contract for five years. The government is dedicated to enhancing the vendor experience by addressing concerns, providing clear guidelines, and simplifying procedures to encourage active participation in the scheme.

The PM Surya Ghar: Muft Bijli Yojana represents a substantial opportunity for individuals and companies to engage in the renewable energy sector while helping India achieve its clean energy objectives. By becoming registered vendors, participants will be instrumental in driving the adoption of rooftop solar systems, promoting sustainability, and ultimately contributing to the nation's energy transition.

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Oriana Power to set up 1-GW green hydrogen electrolyser plant with $60-mn investment

Plans to raise equity in next four to five months.

Mumbai: Oriana Power, a NSE-listed renewable energy company, is planning to set up a one gigawatt (GW) electrolyser factory at a cost of $60 million, its co-founder, Anirudh Saraswat, told *ETEnergyWorld.*

The company plans to commission the plant in two phases. The first phase of 500 MW annual capacity is expected to be operational in 2026.

Of this one-gigawatt capacity, 500 MW will be delivered in phase-1 with $40 million in 2026 and remaining capacity by 2027 with $20 million. This factory will not only manufacture electrolysers but complete balance of plant (BOP) for the hydrogen ecosystem," he said.

The company is also planning an equity raise in the next four to five months, said Saraswat.

The firm recently announced its two-year roadmap to establish a gigawatt-scale factory for producing electrolysers and BOP modules for green hydrogen and e-fuels in India. It is also currently executing a proof of concept plant for green hydrogen production.

Saraswat added that the growth in e-fuels is critical to India's energy security and that the firm is coming up with an e-methanol project in Uttar Pradesh with 225-tonnes-per-day capacity, which will hit the ground by the end of 2025 and revenue can be booked in three years time.

"We are also setting up a green ammonia project of 300-tonnes-per-day capacity in Odisha. So, a substantial investment is planned for green hydrogen and e-fuels till 2027… For both of these projects, land has been identified and is the last stage of discussion," he added.

The company had earlier said that the payoffs from its green hydrogen and e-fuels business would start by next financial year and is expected to contribute a significant share in their revenues by FY27.

UAE: Schneider Electric launches new manufacturing facility

Schneider Electric, has announced a new manufacturing facility in the Hamriyah Free Zone that aims to offer AI-ready data centre solutions to cater to the region's growing market.

The new facility is designed to manufacture and assemble AI-ready prefabricated modular data centres, supporting the UAE's 'Make it in the Emirates' strategy and the ongoing In-Country Value (ICV) programme, which is designed to boost local economic growth and increase the contribution of the private sector to the UAE's GDP.

This launch reinforces Schneider Electric's role in boosting local production and driving sustainability and industrial growth through advanced manufacturing practices.

Amel Chadli, President of Gulf Countries, Schneider Electric, commented, "Our expansion in local manufacturing reflects Schneider Electric's commitment to the UAE's vision for industrial growth and sustainability. By advancing our AI-powered data centre solutions, we are addressing the country's increasing demand for scalable, energy-efficient, digital infrastructure

"This facility will allow us to deliver data centre solutions that align with both national economic objectives and the evolving needs of industries."

The new range of data centres is designed to meet customer demands for greater predictability, lower total cost of ownership, and faster deployment.

The facility will also drive local job creation, with up to 70% local content across supply chain management, logistics, project management and maintenance.

Sunset for the U.K.'s coal-fired power, lessons for India

India could learn from the U.K.'s transition, ensuring that it does not make the mistakes Britain made

The 'shuttering of Britains last coal-fired power plant, in Nottinghamshire, is a milestone and indicates the hastening of an ongoing paradigm shift in energy production globally. But this has by no means been a frictionless transition, as it has been portrayed in much of the press. There have also been calls to replicate the United Kingdom's coal phase-out globally. While Britain's experiment could hold good for a few developed economies, a far more tailor-made approach would be required for developing and least-developed nations.

Britain's coal phaseout must also not be viewed as beginning with its 2015 Paris pledge to bring down unabated coal-fired power to zero by 2025. It must largely begin with the disastrous Great Smog of London of 1952, leading to the enactment of environmental legislation such as the 1956 Clean Air Act and other protracted processes over a 70-year period, which included geo-political, environmental, economic and social pressures. The discovery of natural gas in the North Sea in 1965 and the desire to move away from coal imports from the Soviet Union at the height of the Cold War, as depleting domestic reserves made mining uneconomical, thereby jacking up costs of coal-fired energy production, collectively hastened the transition away from coal, which began almost 60 years ago. The subsequent forced closures of about 20 mines in the mid-1980s by the Margaret Thatcher government, despite a year-long miners' protest, led to blight and inter-generational poverty that some parts of the erstwhile coal-reliant regions of the U.K. continue to face. This is not to undermine the urgency with which nations must work toward drastically reducing their carbon emissions over the next two decades, but to appreciate and emphasise the vastly different trajectories and plans required to reach this goal.

KPI's Green Agenda

ON JUNE 22, 2023, Prime Minister Narendra Modi presented the U.S. First Lady Jill Biden a 7.5-carat eco-friendly lab-grown diamond, showcasing India's commitment to green energy. This exquisite gem by Surat's Greenlab Diamonds was crafted using green power — a blend of solar and wind — from Gujarat's KPI Green Energy, led by chairman and managing director Faruk G. Patel, whose entrepreneurial journey has been nothing short of extraordinary.

He built relationships in corporations such as Reliance, L&T and Birla Copper which opened doors in construction and telecom industries. “I founded KP Buildcon under KP Group (KP standing for Kothiwala Patel, Kothi being his village in Bharuch) in 1994, which officially was incorporated in 2001, and is now known as KP Green Engineering. Through this, I worked on telecommunication projects in 16 states. However, telecom started declining around 2007-08,” he recalls. His quest for a long-lasting business made him turn towards green energy. “After working as an engineering, procurement and construction (EPC) developer, I realised that in solar and wind, once the plant is built, it generates electricity for 25 years. Even solar panels have 25-year warranty. That's when I decided to move from infrastructure development under KPI Global Infrastructure Ltd., now known as KPI Green Energy Ltd. (which was incorporated in 2008), towards solar energy,” says Patel. He began with small solar projects. Around the same time, he launched another company, KP Energy, to focus on wind energy, which now handles modest projects in of 1+GW. When Gujarat's then chief minister Narendra Modi announced the ambitious Charanka Project — the largest solar initiative in the state at the time — Patel began working as an EPC contractor for 105 MW (in 2010-11). “Our clients back then were L&T, Moser Baer, LANCO, GMR and Tata. I realised this work wasn't rocket science,” he says.

This led him to a pivotal decision: to become an independent power producer (IPP). Purchase of 220 acres of land in his village marked the start of a journey towards owning renewable energy assets. In 2015, Gujarat announced a solar policy; KPI Green Energy's first project was completed in 2018. To build the first 25MW capacity, Patel needed about ₹126 crore, of which he raised ₹86 crore under third-party PPA from Power Finance Corporation. For the rest, he diluted 26% KPI Green Energy stake in an IPO. Patel also decided to develop solar plants for others under segment called captive power plants (CPPs). In a single solar park, he brought multiple clients together, which he likened to a “shared rickshaw” concept. “Typically, profit margin in such projects is 8-10%, but with the sharing model, margin increased to 20-25%,” he says. The CPP model created a strong revenue stream which Patel used to fund the IPP business. As of today, KPI Green Energy has built 200 MW IPP capacity, generating monthly revenue of ₹14-15 crore, while maintaining a debt-free status. Of the total revenue, 17% comes from IPP projects. Patel is aiming at ₹1,000 crore profit after tax (PAT) by 2028. In 2023, KPI Green Energy decided to participate in government bids. The group started working on green hydrogen and green ammonia in 2023 for which it plans to commission a one-MW green hydrogen plant by April 2025. “KPI Green Hydrogen and Ammonia is going to bid for Solar Energy Corporation of India's big tender of 10 lakh cubic metric tonnes,” says Patel, now looking to expand KPI Green Energy's footprint across India and abroad. As a CPP, KPI Green has commenced work for government of Maharashtra for 100MW AC and 120MW DC project worth ₹520 crore. It is also going into Madhya Pradesh. Patel's next target is Telangana and Andhra Pradesh by the end of the financial year. On international front, Patel intends to start with Riyadh in a very short time, in renewable space.

KP Group has an edge over peers in solar, wind and hydrogen — most of the work for the projects is commissioned in-house. If KPI Green Energy bags an order for hybrid power, KP Energy helps it install wind turbines, as it did in Kora, Bharuch. KP Green Engineering provides solar MMS (module mounting structures) and wind lattice towers. KP Green Engineering provides structures for transmission towers and substation installation. Patel is passionate about contributing to India's growth and net zero goals of 2070. Patel is also sourcing robots for cleaning and maintenance of solar panels locally. In sync with government's commitment to installing 500GW renewable energy capacity by 2030, KP Group has committed to taking its capacity to five GW by 2028 and 10 GW by 2030. “If anything is most important for India, it is power created by renewable energy. If we get sustainable power, our dollar outflow will be less, carbon emissions will decrease and we will be self-dependent.”

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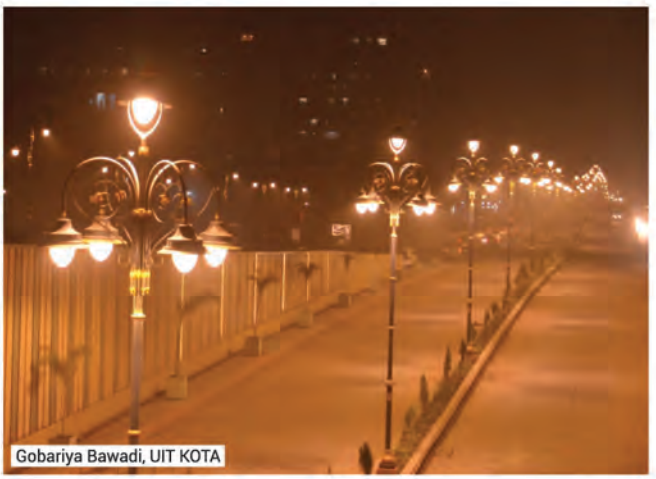
Traditional Lighting Poles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इकॅम जळगाव विभागाची वार्षिक सभा उत्साहात साजरी

जळगाव वार्षिक सभेचे विधिवत् उदघाटन करताना इकॅम अध्यक्ष श्री उमेश रेखे.

जळगाव विभाग अध्यक्ष श्री बाबुभाई मेहदी व अन्य संचालक दीप प्रज्वलन करून सभेचे उदघाटन करण्यात आले.

इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र म्हणजेच इकॅमच्या जळगाव विभागाची वार्षिक सभा शुक्रवार, २५ ऑक्टोबर २०२४ रोजी उत्साहात यशस्वीपणे पार पडली. जळगावच्या कमल पॅराडाईज या हॉटेलमधे सायंकाळी ४ नंतर संचालक, सदस्य, आमंत्रित, प्रायोजक व स्टॉलधारक येऊ लागले. या सभेसाठी मुंबई, ठाणे, पुणे, नगर, धुळे, नाशिक या विभागांचे संचालक व सदस्य आले होते. IECT चे एक प्रतिनिधी मुंबईहून आले होते. आयोजकांनी सर्व व्यवस्था चोख ठेवली भोजनाची छान व्यवस्था होती.

या सभेमधे अनेक कंपन्यांचे प्रदर्शनीय स्टॉल होते. प्रायोजक व सह प्रायोजक यांचेही विशेष स्टॉल होते.

मुख्य प्रायोजक महाजन एंटरप्राईजेस व यशवंत एन्टरप्राईजेसचे श्री नरेन्द्र महाजन व श्री प्रभाकर महाजन, सहप्रायोजक कलिका इंडस्ट्रीजचे श्री जिजाबराव पवार, पार्थ इंडस्ट्रीजचे श्री रोहित पवार आवर्जून उपस्थित होते. याचप्रमाणे रोटोप्लास्ट, वाध्वा इलेक्ट्रोटेक, श्री इलेक्ट्रिकल अॅण्ड फर्निचर, श्री इंजिनियरिंग, टु पॉवर, नासिक केबल, डेल्टा कोअर, सिद्धेश इलेक्ट्रोटेक, आशिर्वाद इलेक्ट्रिकल, सुदर्शन सोलार, निर्मयी इंटरप्राईजेस, सत्यम् इलेक्ट्रोनिक्स असे विविध प्रथितयश कंपन्यांचे स्टॉल होते.

सर्वप्रथम सर्व संचालकांनी एकत्र येऊन प्रदर्शनाचे उदघाटन केले व नंतर प्रत्येक स्टॉलला भेट दिली. यानंतर वार्षिक सभेची सुरवात दीप प्रज्वलन व राष्ट्रगीताने करण्यात आली.

नंतर इकॅम अध्यक्ष, महासचिव व जळगाव सोडून इतर रिजनचे अध्यक्ष यांचा यथोचित सत्कार करण्यात आला.

याप्रसंगी रिजनच्या कार्यवृत्त सादर करण्यात आले व सर्व नेहमीचे ठराव करण्यात आले. सभेच्या संचालिकेने संचालन करताना प्रश्न विचारले व या निमित्त सदस्यांना बक्षिस वाटप करण्यात आले.

सभेला सुमारे १७० सदस्य ठेकेदार, स्टॉलधारक व निमंत्रित मिळून २५० जण आले होते. हॅपि थॉट या संस्थेने त्यांच्या स्टॉलवरून सर्वांना उत्तम पुस्तकांचे वाटप केले.

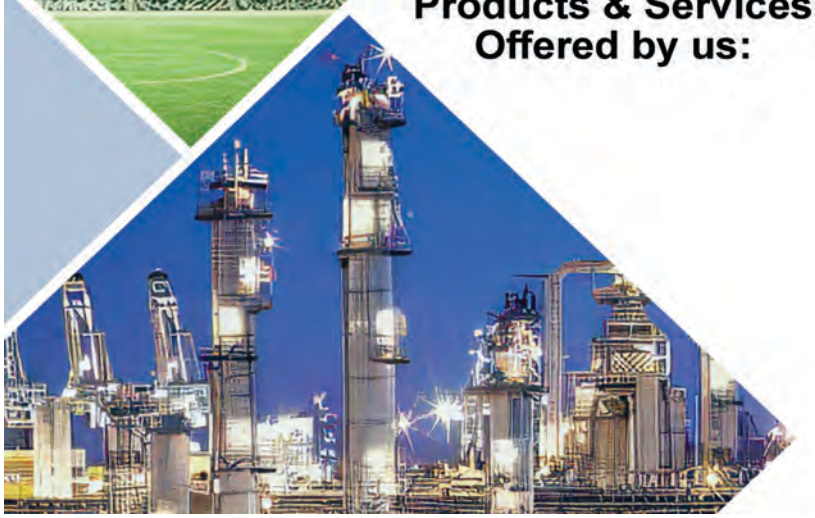
यानंतर सभेच्या प्रायोजकांनी आपापल्या उत्पादनांचे सादरीकरण केले. मग सर्व प्रायोजक व स्टॉलधारक यांचा सन्मान करण्यात आला व त्यांचे आभार मानण्यात आले.

शेवटी महासचिव श्री देवांग ठाकुर, अध्यक्ष श्री उमेश रेखे व जळगावचे अध्यक्ष श्री बाबुभाई मेहदी यांनी आपली मनोगत व्यक्त केली.

सुग्रास सहभोजनाने या वैशिष्ट्यपूर्ण सभेची सांगता झाली.

जळगाव विभागातर्फे इकॅम अध्यक्षांचे स्वागत व सन्मान

सभेला आलेले संचालक



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Advanced Lightning Protection for High-Risk Industries

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Cape Electric Pvt. Ltd

Introduction

Lightning strikes pose a significant threat to high-risk facilities, including **oil and gas plants**, **mines**, **explosive storage sites**, and **data centres**. These environments house sensitive equipment, hazardous materials, and critical infrastructure that, if struck, can suffer severe damage, leading to costly downtime or, worse, catastrophic incidents like fires or explosions. Implementing an effective **lightning protection system** is not just a regulatory requirement—it's essential for safeguarding both assets and lives.

At Cape Electric, we provide comprehensive **lightning protection solutions**, tailored to the unique needs of high-stakes industries. Our offerings include **lightning simulation**, **isolated and attached lightning protection systems**, and **electrically insulated lightning protection with down conductors and lightning rods tested for 100kV lightning impulse** to ensure that your facility remains safe and operational during severe weather conditions.

The Role of Lightning Simulation

A critical first step in designing any lightning protection system is **lightning simulation**. This process involves a detailed risk assessment to understand the potential impact of lightning strikes on your facility.

Our lightning simulation goes beyond typical strike analysis. It can model the **temperature rise** at potential strike points, which is especially critical for **explosive atmospheres** like those in **oil and gas** or **explosive storage** facilities. When a lightning strike occurs, it can cause a sharp increase in temperature at the point of impact. This rapid temperature rise can become a significant hazard if it ignites **flammable gases or vapours** in the surrounding atmosphere.

By simulating this temperature rise, we can predict areas of heightened risk and design **customized solutions** to minimize these dangers. For instance, we can recommend the strategic placement of **isolated lightning protection systems** to prevent sparks in high-risk zones or **electrically insulated solutions** that ensure surges do not transfer to critical areas.

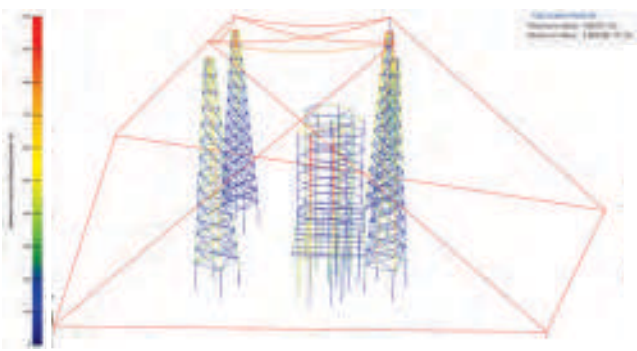

Figure 1Lightning current distribution

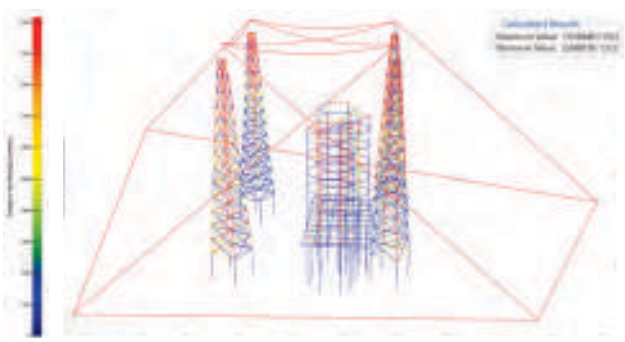

Figure 2 Energy through the system

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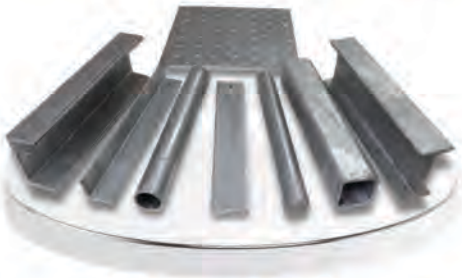

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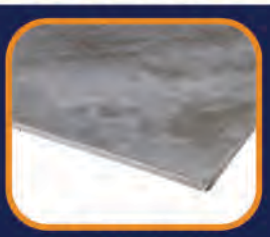

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Dangers of Step and Touch Potentials Due to Lightning Strikes

Beyond direct strikes, **step and touch potentials** present significant risks in the aftermath of a lightning strike. When lightning strikes the ground or a structure, it creates a **potential difference** in the surrounding area.

- **Step Potential**: This occurs when there is a voltage difference between two points on the ground, typically affecting individuals walking near the strike area. A person stepping across these points could experience a dangerous electric shock.
- **Touch Potential**: This occurs when a person is touching a structure (such as a fence, machinery, or building) that is at a different potential than the ground they are standing on, leading to an electric shock.

In high-risk facilities like **oil and gas plants** and **mines**, step and touch potentials can be life-threatening, especially if they occur near **flammable materials**. Our lightning simulation capabilities allow us to map out these potential hazards and design targeted solutions, such as **equipotential bonding**, **earthing arrangements**, and **strategic placement of conductors** to minimize these risks.

Isolated Lightning Protection: Safety in High-Risk Environments

Isolated lightning protection systems are ideal for sites where the risk of fire or explosion must be minimized. These systems ensure that the discharge path of a lightning strike remains completely separate from the structure, preventing electrical surges from coming into contact with sensitive or hazardous areas. This system uses lightning rods and down conductors that are rigorously tested for **100kV lightning impulse** to ensure they can withstand the extreme conditions of a lightning strike. This testing guarantees that the system can safely handle the powerful surge energy, reducing the risk of system failure during an actual strike.

For **oil and gas facilities**, where explosive gases and flammable liquids are often present, this isolation is crucial. A lightning strike could otherwise cause a spark or ignition, leading to dangerous incidents. By using advanced materials and installation techniques, we create a safe discharge path that keeps your facility protected while maintaining operational safety.

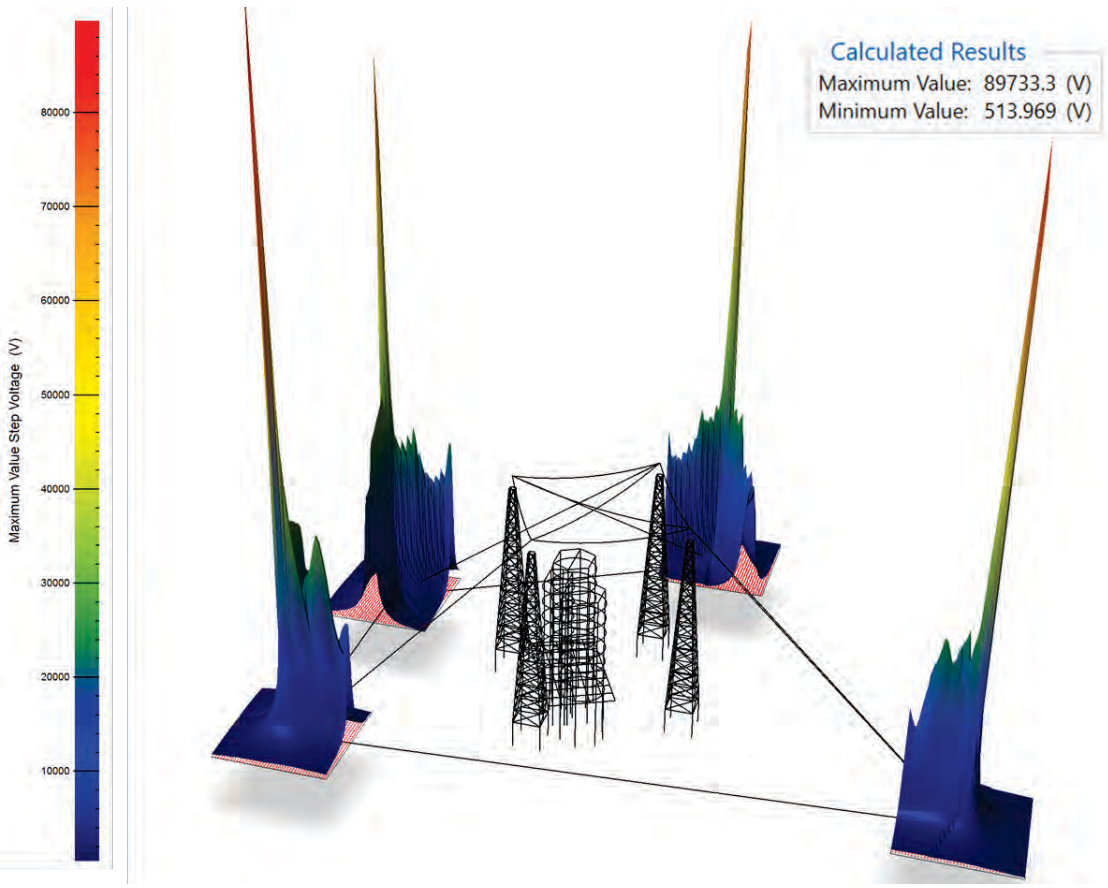

Figure 3 Step Voltage measurement

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Attached Lightning Protection: Direct Dissipation for Robust Safety

In environments where direct contact with the structure is less of a concern, **attached lightning protection systems** provide a reliable solution. These systems use **lightning rods** and **conductor networks** that are directly attached to the structure, safely guiding lightning energy into the ground.

This approach is particularly suitable for **data centres**, where protecting the physical structure and the technology inside is essential. With the right protection in place, sensitive equipment is shielded from surges that could cause data loss, system failures, or significant downtime.

Electrically Insulated Lightning Protection: Essential for Oil and Gas

For facilities that handle flammable or explosive materials, such as **oil refineries**, **gas processing plants**, and **explosive storage sites**, **electrically insulated lightning protection systems** provide an added layer of safety. These systems are designed to prevent any electrical charge from transferring to the structure, which is critical in environments where even a small electrical spark could trigger an explosion. This system uses lightning rods and down conductors that are rigorously tested for **100kV lightning impulse** to ensure they can withstand the extreme conditions of a lightning strike. This testing guarantees that the system can safely handle the powerful surge energy, reducing the risk of system failure during an actual strike.

By **isolating the lightning protection system** from the main building or storage facility, the risk of transferring hazardous electrical surges is minimized. This method is not only compliant with industry standards but also significantly enhances safety for workers and equipment

Figure 4 Electrically insulated lightning rod and down conductor tested for 100 kV lightning impulse

Conclusion: Secure Your Facility with Advanced Lightning Protection

Lightning protection isn't just about compliance—it's about ensuring safety, protecting investments, and keeping operations running smoothly. At Cape Electric, we offer customized solutions that cater to the unique needs of **oil and gas facilities**, **mines**, **explosive storage sites**, and **data centres**. With our expertise, including systems that are **tested for 100kV lightning impulse**, you can be confident that your facility is well-protected against even the most severe lightning events.

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इकॅम नाशिक विभागाची वार्षिक सभा उत्साहात साजरी

इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र म्हणजेच इकॅमच्या नाशिक विभागाची वार्षिक सभा शनिवार, १९ ऑक्टोबर २०२४ रोजी उत्साहात व सदस्यांच्या कुटुंबियांसोबत यशस्वीपणे पार पडली. नाशिकच्या भव्य डेमोक्रसी हॉटेलच्या भव्य सभागृहात दुपारी १२ वाजल्यापासूनच सदस्य व त्यांचे कुटुंबिय यांच्या आगमनास सुरवात झाली. सभेनंतर आयोजित महाराष्ट्राची हास्यजत्रा या तुफान लोकप्रिय कार्यक्रमातील काही कलावंतांचा विनोदी कार्यक्रम होणार असल्याने सर्वजण एकदम उत्साहात होते.

इकॅममधे एक खूप चांगली प्रथा आहे. रिजनच्या सभेला इतर रिजनचे संचालक व सदस्यही आवर्जून उपस्थित राहतात. नाशिकच्या सभेला मुंबई, ठाणे, पुणे, नगर, धुळे, जळगाव या विभागांचे संचालक व सदस्य आले होते. खएउढ चे संपादक व एक प्रतिनिधीही मुंबईहून आले होते. नाशिककरांनी सर्व व्यवस्था चोख ठेवली होती. दुपारच्या जेवणाची, मध्यंतराचे चहापाणी व रात्रीचे भोजनाची छान व्यवस्था होती.

या सभेमधे अनेक कंपन्यांचे प्रदर्शनीय स्टॉल होते. प्रायोजक व सह प्रायोजक यांचेही विशेष स्टॉल होते.

सर्वप्रथम सर्व संचालकांनी एकत्र येऊन प्रदर्शनाचे उदघाटन केले व नंतर प्रत्येक स्टॉलला भेट दिली. यानंतर वार्षिक सभेची सुरवात दीप प्रज्वलनाने करण्यात आली. राष्ट्रगीत झाल्यावर शोकप्रस्ताव ठेवण्या येऊन स्व. रतन टाटा, माजी अध्यक्ष सुनील भुरे व कण्णाव यांना श्रद्धांजली अर्पण करण्यात आली.

श्री सूरज अहिरे यांनी कार्यक्रमाची प्रस्तावना केली व नंतर इकॅम अध्यक्ष, महासचिव व नाशिक सोडून इतर रिजनचे अध्यक्ष यांचा यथोचित सत्कार करण्यात आला.

याप्रसंगी रिजनच्या कार्यवृत्ताचे प्रकाशन करण्यात आले व सर्व नेहमीचे ठराव करण्यात आले.

इकॅमचे ज्येष्ठ सदस्य सर्वश्री कांतिलाल लकारिया, चंद्रकांत सोनार व ब्राह्मणकर यांनी आपले मनोगत व्यक्त केले. इकॅम सदस्यांनी आपसात स्पर्धा न करता कामे वाटून घ्यावी असा मोलाचा सल्ला त्यानी दिला. कंपोझिट टेंडरला विरोध करून विद्युत ठेकेदारांचे रक्षण केले पाहिजे, असेही प्रतिपादन त्यांनी केले. इकॅमच्या प्रगतीबद्दल त्यांनी कौतुक केले व शुभेच्छा दिल्या. स्व. सुनील भुरे यांचे स्मरण करून त्यांनी तरूण सदस्यांना टेक्निकल सेमिनार आयोजित करून ज्ञान मिळवण्याचेही आवाहन केले. श्री मोहन पवार यांनी मालेगावच्या सदस्यांची समस्या मांडली व तेथील नगरपालिकेविरूद्ध तक्रार केली. बाहेरचे लोक कामे मिळवतात व स्थानिकांना काम मिळत नाही, ही त्याची तक्रार होती.

यानंतर सभेचे प्रायोजक केन्टर केबल, एस पी एम केबल, ऑर्बिट केबल व आय एम सेफ यांनी आपापल्या उत्पादनांचे सादरीकरण केले. मन सर्व प्रायोजक व स्टॉलधारक यांचा सन्मान करण्यात आला व त्यांचे आभार मानण्यात आले.

शेवटी महासचिव श्री देवांग ठाकुर, अध्यक्ष श्री उमेश रेखे व नाशिकचे अध्यक्ष श्री सचिन फरतडे यांनी आपले मनोगत व्यक्त केले. ठाकूर यांनी नाशिक रिजनने कार्यालय घ्यावे, अशी अपेक्षा व्यक्त केली. सभा पसायदानाने संपन्न झाली.

यानंतर हास्यजत्रेचा तुफान मनोरंजनाचा कार्यक्रम व सुग्रास सहभोजनाने या वैशिष्ट्यपूर्ण सभेची सांगता झाली.

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सेमीकंडक्टर म्हणजे काय?

अथपासून इतिपर्यंत, संक्षिप्त विजेचा शोध लागल्यापासून त्यात निरंतर चिकाटीने संशोधन चालू आहे. DC वीज म्हणजे डायरेक्ट करंट एकच दिशेने वाहणारी एकाच व्होल्टेज वर वाहणारी असते. डीसी विजेचा उपयोग वीज भट्टी, वेल्डिंग इत्यादी होतो. AC वीज म्हणजे अल्टरनेटिंग करंट, सतत दिशा बदलणारी आणि व्होल्टेज कमीजास्त होणारी वीज असते. AC वीज खूप उपयुक्त आहे, हे निकोला टेस्लाने जगास दाखविले. यामुळे इलेक्ट्रोमैग्नेटिक इफेक्ट मिळतो. या इफेक्ट मुळे मोटर, जनरेटर, ट्रांसफार्मर इत्यादी शोध लागले.जनरेटर मध्ये वीज निर्माण होते. मोटरमुळे कोणत्याही यंत्राला गती देता येते. ट्रांसफोर्मर मुळे व्हॉल्टेज कमी जास्त करता येते. यात गंमत अशी की वीजप्रवाहाची तुलना पाणीप्रवाहाशी करता येते. पाणी वाहून नेणारा पाईप आणि वीज वाहून नेणारी तार यांची तुलना केली तर पाण्याचा दाब (प्रेशर) आणि वीजेचा दाब (वोल्टेज) सारखेच आहेत. पाण्याचा प्रवाह क्षमता (फ्लो) आणि विजेचा करंट (अँपियर) सारखेच वागतात. पाण्याच्या पाइपला आवळले अथवा वेडावाकडा केला अवरोध निर्माण होतो, तसेच बारीक वीजवायर किंवा रेजिस्टेंस टाकले तर अवरोध होऊन तापमान वाढते. AC चे DC मध्ये रुपांतर करण्यासाठी रेक्टिफायर आले. DC चे AC मध्ये रुपांतर साठी इन्व्हर्टर आले. नंतर असा विचार आला की हवेतून वीज पाठविता येईल का? मग रेडीओ लहरीचा शोध लागला. या विजेचा इलेक्ट्रमग्नेटिक परिणामच असतात.

रेडिओलहरींचे अनेक प्रकार शोधले गेले. शॉर्ट वेव्ह, मेडियम वेव्ह, हाई फ्रीक्वेंसी, अल्ट्राहाई फ्रीक्वेंसी वगैरे वगैरे. परंतु रेडीओ लहरी अत्यंत कमजोर असल्यामुळे त्या स्ट्राँग करता येईल का? विचार होऊ लागला. म्हणून डायोड आणि ट्रायोड यांचा शोध लागला. हे म्हणजे सध्या दिसतात तसे बल्ब होते. एका स्ट्राँग वीजप्रवाहामध्ये कमकुवत प्रवाहाला अडथळा म्हणून मिक्स करुन वापरले तर स्ट्राँग प्रवाहामध्ये अपेक्षित असे कमकुवत प्रवाहाचे चढउतार बघावयास मिळतात. हेच ते ट्रायोड. थोडक्यात कमकुवत प्रवाहाला ट्रिगर सारखे वापरायचे जेणेकरुन स्ट्राँग प्रवाहामध्ये पाहिजे तसे बदल घडवून आणायचे. यालाच अँप्लिफिकेशन म्हणतात म्हणजे लहानला महान करणे. पण या ट्रायोडना खूप वीज, जागा, देखभाल आणि प्रचंड खर्च लागत असे.

साधा संगीतगाणीच्या रेडीओला खूप मोठे घर लागत असे. नंतर कसेबसे करुन तरीही त्याकाळाचा रेडीओ कपाटाएवढा झाला. तेंव्हापासून ही वीजयंत्रे लहान, आणखी लहान करण्याकडे स्पर्धा सुरु झाली. ती आजतागायत चालू आहे आणि भविष्यातही चालू राहणार. आता सूक्ष्म आणि अतिसूक्ष्म अशी स्पर्धा सुरु झालेली आहे. १९५२ साली जुन्या डायोड ट्रायोड नंतर ट्रांझिस्टरचा शोध लागला. हे ट्रांझिस्टर सेमिकंडक्टर मटेरियल चे बनलेले असतात. पृथ्वीवरील सर्व पदार्थ हे काही ठराविक मूलद्रव्यांपासून बनलेले आहेत. आतापावेतो एकूण १०८ मूलद्रव्ये जे सहज उपलब्ध असून त्यातील ८४ धातू(मेटल्स), १८ अधातू (नॉनमेटल्स) आणि ६ उपधातू (मेटलॉईडस) आहेत. या क्षेत्रातही आणखी शोध चालू आहेत काही अस्थिर, फारच दुर्मिळ असे मूलद्रव्ये शोधले गेले. तो अभ्यासाचा विषय आहे. या मूलद्रव्यांचे आपापसात संयोग होऊन करोडो क्षार संयुगे तयार होतात. तेच पृथ्वीवरील अनेक पदार्थ आहेत. यातील उपधातू हा फार मनोरंजक प्रकार आहे. यात बोरॉन, अँटीमनी, जर्मेनियम, सिलिकॉन, आर्सेनिक, टेरुलियम ही मूलद्रव्ये येतात. सिलिकॉन तर २७ टक्के असून दगड माती रेती सर्वांमध्ये आढळतो. पण फारच अशुद्ध स्वरुपात असतो. सिलिकॉन सर्व संयुगांमध्ये स्ट्रॉंगेस्ट बाँडरसारखा वागतो. तसेच त्यावर कोणत्याही इलेक्ट्रोमैग्नेटिक प्रभाव पडत नाही. कारण नैसर्गिक संरचना तशी आहे. शुद्ध स्वरूपातील सिलिकॉन म्हणजेच सेमिकंडक्टर. सेमिकंडक्टर म्हणजे अर्धवाहक. त्यात बोरॉन, फॉस्परस, जर्मेनियम सारख्या मूलद्रव्ये अल्पशा प्रमाणात मिसळल्यास व लेपन केल्याने सिलिकॉनचे विजवाहकतेचे गुणधर्म बदलतात. म्हणून सिलिकॉनचे सूक्ष्म तुकडे जोडले तर डायोड ट्रायोडसारखे गुणधर्म दिसतात. -+- म्हणजेच NPN ट्रांझिस्टर. तत्सम +-+ म्हणजेच PNP ट्रांझिस्टर आहेत. या ट्रांझिस्टरचा अँप्लीफायर सारखा उपयोग करता येतो. त्याला अत्यंत कमी वीज, जागा, देखभाल आणि खर्च येतो. तसेच कार्यक्षमता हजारोपटीने वाढते. म्हणूच हातात सहजरित्या कुणालाही घेऊन फिरता येईल असे ट्रांझिस्टर रेडीओ अस्तित्वात आले. तेंव्हा अनेक ट्रांझिस्टर्सचा समुह एका प्रिंटेड सर्किट बोर्ड (PCB) वर असे. नंतर हजारो ट्रांझिस्टर्स एका टिकलीच्या आकाराच्या सिलिकॉन वेफरवर प्रिंट करण्यात आला.

त्याला इंटीग्रेटेड सर्किट (IC) संबोधले. असे अनेक IC एका PCB वर लावून अत्यंत क्लिष्ट समस्या टास्क सहजरित्या हाताळल्या जाऊ लागल्या. असे IC कारखान्यातील यंत्रे, वाहने, रेडिओ, टीव्ही, विमाने वगैरे सर्वत्र अगदी खेळण्यासाठीही वापरले जाऊ लागले. पुढेपुढे IC ची क्षमता कमी वाटू लागली. कारण यंत्रे अजुन पूर्णपणे स्वयंचलित

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झालेली नव्हती. अर्धस्वयंचलितच होती. त्यासाठी सेमिकंडक्टर चिप येणार होती. एक शोध लावतालवता इतरही शोध लागतात. त्याला सिरेंडिपिटी इन्व्हेंशन म्हणतात. मधूनच सोलर सेल चा शोध लागला. सिलिकॉन वेफरवर जर्मेनियम स्ट्रोंशियम चा लेपन करुन सूर्यप्रकाशात ठेवल्यास प्रकाशकण फोटॉनचे रुपांतर इलेक्ट्रॉनमध्ये होऊन वीज मिळविता येते. एक गोष्ट निश्चित की सिलिकॉन वेफर दोन्ही ठिकाणी कॉमन आहे. दुसरा शोध म्हणजे डिजिटल जगाला सुरूवात झाली. आकडेमोड करण्यासाठी त्यापूर्वी दातेरी चक्रे(गियर्स) वापरुन मेकॅनिकल कॅलक्युलेटरचा प्रयोग झाला होता. पण फारसा पुढे चालला नाही. परंतु IC मध्ये अगोदर निव्वळ अनालॉग इलेक्ट्रिकल सिग्नल म्हणजे फक्त कमीजास्त प्रमाणात बदलणारे सिग्नल होते. मग डिजिटल बायनारी सिग्नलचा शोध लागला. काही अतिसूक्ष्म सेकंदासाठी वीजप्रवाहाची Pulse म्हणजे एक सूक्ष्म वीजप्रवाहचा झटका अगदी एक ते दोन वोल्टेजचा दिला की '१' हा बायनरी सिग्नल झालं. काही अतिसूक्ष्म सेकंदासाठी Pulse न देता म्हणजे रिकामी जागा ही "0" बायनरी सिग्नल झालं. अशाप्रकारे ० आणि १ ची बायनरी भाषा झाली. यांना BIT म्हणतात. ८ बीट्सचा एक बाईट तयार झाला. एका बाईटला २८ प्रकारे मांडता येते. त्यात अंक, मुळाक्षरे, जोडाक्षरे, विशेष चिन्हे सर्व बनतात. कमीजास्त बदलणारे डिजिटल अनालॉग सिग्नलही तयार झाले. आकडेमोडच काय तर लेख चित्र सर्वच मॉनिटरवर दिसू लागले. सॉफ्टवेयर आले. पहिल्या सॉफ्टवेयरचा आधार घेत दुसरे विकसित सॉफ्टवेयर आले. माहितीयुग सुरु झाले. IC च्या पुढे चिप्सचा शोध अपरिहार्य होता. कारण डिजिटल महितीला प्रोसेस कारणे, साठवून ठेवणे, क्रम ठरविणे, गणितीय प्रक्रिया कारणे, तर्कअतर्कवितर्क ठरविणे, ब्रूकश्राव्य माध्यमला पाठविणे वगैरे अनेक कामांसाठी चिप्सची गरज भासू लागली. १९६२ साली वैज्ञानिक मूर यांच्यामते दरवर्षी चीपमधिल ट्रांझिस्टर्सची संख्या दुप्पट होत राहिल. खरेच तसे घडत आहे. सुरुवातीला एका चीपमधील एका ट्रांझिस्टरचा आकार ३०० नॅनोमीटर्स होता तो हळूहळू कमी होऊन ३० नॅनोमीटर्स एव्हढा झाला. सध्या तर ३ नॅनोमीटर्स आहे. तसेच एका चीपमधील ट्रांझिस्टर्स ची संख्या वाढत आहे.

आपल्या डोक्याचा एक केसाची जाडी ५०००० नॅनोमीटर्स असते. आता तुम्हाला कल्पना आलेली असेल की सुक्ष्म कडून अतिसूक्ष्मकडे कसा प्रवास होत आहे. हीच ती Cutting Edge Technolgy आहे. साधारणपणे वाशिंग मशिन, टीव्ही, कार वाहने यामध्ये ३० नॅनोमीटर्स ट्रांझिस्टर्स असलेल्या चिप्स वापरल्या जातात. आयफोन मधिल एका IC मधिल ३ नॅनोमीटर साईझच्या १९ बिलियन्स (१९०० कोटी) ट्रांझिस्टर्स आहेत. म्हणून तो इतका महाग असतो. एखादया उपकरणाची चिप जेवढी लहान म्हणजे त्यातील ट्रांझिस्टर्सची संख्या जास्त आणि आकार लहान तेवढी किंमत जास्त. चिंचोकीच्या आकाराचे ड्रोनची किंमत कोटीमध्ये असते. भारतामध्ये आतापावेतो एकही चिप तयार झालेली नाही. मोदी २ सरकारने भारतात चिप निर्मितीचा विचार रुजविला आणि त्यासाठी वातावरण निर्मिती व सहऊद्योग चालू केले. त्यासाठी SEMICON-1 भव्य कार्यक्रम केला. आता SEMICON-2 आयोजित करुन रुपये ७६००० कोटी रुपये चिप उद्योगाला दिले. सध्या ३० नॅनोमीटर्स साईझ असलेल्या चीपचेच उत्पादन सुरु करणार आहोत. जर भारतात चीपचे उत्पादन सुरु झाले तर आयफोन येथे पंधरावीस हजारात सहज मिळेल. बाकी टीव्ही, काँप्युटर, आयपॅड, साऊंडसिस्टिम, वाशिंग मशीन, कॅमेरे घरगुती उपकरणे अगदी तळागाळयातील लोकही सहज घेऊ शकतील. अद्ययावत कार, ड्रोन्स, बोटी, विमाने, ट्रेन्स उपलब्ध होतील. प्रवास स्वस्त, वक्तशीर आणि सुखकारक होईल. कारखाने स्वयंचलित अतिप्रगत होतील. Solar एनर्जी, EVs, IOT, AI, blockchain, Internet, Datacentres इत्यादी वापर अनेकपटीने वाढेल. सोलर पॉवर गरजेपेक्षा जास्त तयार होऊन नगण्य दरात मिळेल. शेती अद्ययावत होईल. पाण्याचे नियोजन चांगले होईल. देशाच्या सुरक्षेच्या दृष्टीने मोदींनी भारताच्या स्वतःची चिपनिर्मिती असली पाहिजे म्हणून मोदी -१ काळापासून आरंभ केला होता. चीनच्या चिपवर बंदी घातली.

गुगलसारख्या भारतीय नेव्हिगेशन सिस्टिम MapMyIndia, Data Centres, Super Computer, mobiles यांची सुरूवात केली. देशाची सुरक्षा दुसऱ्यांच्या भरवश्यावर टाकल्याने काय होते, हे नुकत्याच हिजबोल्लाह लोकांचे पेजर स्फोट वरून लक्षात आलेच असेल. आपल्याला चीपचे महत्त्व उशिराच कळले म्हणावे लागेल. चीनने फार लवकर ओळखले कारण त्यांना क्रूड पेट्रोलियम च्या आयातीच्या चौपट चिप आयातीला खर्च करावा लागत असे. भारताचीही किंबहुना तीच परिस्थिती आहे. कोविडकाळात जगाची सप्लाई चेन बिघडल्यामुळे आपले वाहन उत्पादन ठप्प झाले होते. जागतिक कोल्डवॉर काळात जपानमध्ये तयार होणाऱ्या चीपसाठी दोन्ही बलाढ्य राष्ट्र झगडत असत. आता चिपनिर्मिति ऊद्योगात अग्रेसर असणाऱ्या तैवानसाठी चीन व अमेरिका ही राष्ट्रे भांडत आहेत. एवढे मात्र खरे की ज्याचेजवळ चिप जास्त तो जास्त प्रगत असणार. सेमिकंडक्टर इंडस्ट्री तीन टप्प्यामध्ये असते. १. डिझाईन यात मात्र भारतीयांचा वाटा २५ % आहे. २. फेब्रिकेशन यात सध्या तैवान सर्वात प्रगत आहे. सिलिकॉन वेफर्स बनविणे. आणि अतिसूक्ष्म सर्किट प्रिंट कारणे. ३. टेस्टिंग एंड पैकेजिंग . पीसीबी वर फिक्स करणे. या क्षेत्रात व अलाइड क्षेत्रात भारतीयांच्या कंपन्या अलिकडे सुरु झालेल्या आहेत. ट्रांझिस्टर्स म्हणा अगर चिप म्हणा सर्व काही सेमिकंडक्टर मटेरियलपासून बनतात. म्हणून या उद्योगाला सरसकट सेमिकंडक्टर उद्योग म्हणायला प्रघात पडला. हेच ते सेमिकंडक्टर सर्वसामान्य लोकांना सहज माहिती उपलब्ध व्हावी, हा हेतुने, सोपे, सहज, व संक्षिप्त अशी व्हॉट्सऍप पोस्ट तयार केली. पुढील भागात सेमिकंडक्टरच्या जागतिक आणि भारतीय कंपन्या यांचे वर्णन करू या.

संकलन प्रस्तुति :- दिलीप विसपुते

Gensol Engineering Appoints Ankit Jain as CFO

Ankit brings over 20 years of extensive experience across finance and accounting functions, including fundraising, M&A, investor relations, corporate governance, auditing, and taxation.

Gensol Engineering Limited, a leading player in the renewable energy sector specializing in solar power engineering, procurement, and construction (EPC) services and electric mobility solutions, is pleased to announce the appointment of Ankit Jain as the Chief Financial Officer. Ankit will be succeeding Jabir Mahendi Aga, who is moving into an expanded leadership role within Gensol Group.

Ankit brings over 20 years of extensive experience across finance and accounting functions, including fundraising, M&A, investor relations, corporate governance, auditing, and taxation. In his current role, he will work with the Gensol Engineering leadership to execute strategies for establishing a solid financial foundation and enhancing corporate governance for the company.

Commenting on the appointment, Anmol Singh Jaggi, Chairman and Managing Director, Gensol Engineering Limited said, "We are delighted to welcome Ankit to the Gensol team as our new CFO. I am positive that Ankit's extensive experience in finance and leadership roles, and his expertise in driving strategic financial initiatives will be invaluable in helping Gensol lead the energy transition. I extend my best wishes for his success in this new role and look forward to working closely with Ankit to propel Gensol to new heights."

Speaking on his new role, Ankit Jain said: "I am honored to assume the role of CFO at Gensol Engineering and see it as a great opportunity to contribute to the energy transition in a meaningful way. I am committed to working with the senior leadership and board members to establish a robust financial strategy. Together, we will drive innovation and sustainable growth, positioning Gensol as a leader in the renewable energy sector."

Ankit previously held the position of Vice President - Finance at Zetwerk India. Throughout his extensive professional journey, he has also held key positions in various companies such as Baker Hughes, Philips Lighting, GE Oil & Gas and KPMG, where he played a crucial role in shaping and scaling these organizations. He holds a Master's degree from The Institute of Chartered Accountants of India.

श्री राजेंद्र पवार मुख्य अभियंता महावितरण पुणे यांचे कुशल नेतृत्वामुळे पुणे जिल्ह्याला मिळाला एक मानाचा तुरा

उपमुख्यमंत्री ना. श्री. देवेंद्र फडणवीस यांच्याहस्ते राज्यातील दुसरे सौरग्राम म्हणून टेकवडी गावाला सन्मानचिन्ह व प्रमाणपत्र प्रदान करण्यात आले. सरपंच विठ्ठल शिंदे, मुख्य अभियंता राजेंद्र पवार, युवराज जरग यांनी हा सन्मान स्वीकारला. यावेळी अपर मुख्य सचिव (ऊर्जा) आभा शुक्ला, महावितरणचे अध्यक्ष व व्यवस्थापकीय संचालक लोकेश चंद्र उपस्थित होते.

राज्यातील दुसरे सौरग्राम म्हणून खेड तालुक्यातील टेकवडी (जि. पुणे) गावाने मान पटकावला आहे. १२३९ लोकसंख्येच्या या गावातील सर्वच घरगुतीसह ७४ वीजजोडण्यांना सौर ऊर्जा प्रकल्पांतून वीजपुरवठा सुरु झाला आहे. महावितरणकडून राज्यातील १०० गावे १०० टक्के सौर ऊर्जेवर नेण्याची मोहीम सुरु असून त्यात टेकवडी गावाची निवड झाली होती. यामध्ये मान्याची वाडी (ता. पाटण जि. सातारा) नंतर राज्यातील दुसरे सौरग्राम म्हणून टेकवडी गावाने एकजुटीने 'सौर' उड्डाण यशस्वी केले आहे. राज्याचे उपमुख्यमंत्री व ऊर्जामंत्री ना. श्री. देवेंद्र फडणवीस यांच्याहस्ते सौरग्राम टेकवडीमधील १०० टक्के सौर ऊर्जीकरण प्रकल्पांचे 'ऑनलाइन'द्वारे लोकार्पण करण्यात आले. नागपूर येथे बुधवारी (दि.९) आयोजित कार्यक्रमात उपमुख्यमंत्री ना. श्री. फडणवीस यांनी टेकवडीचे सरपंच विठ्ठल शिंदे यांच्यासह सर्व ग्रामस्थांचे अभिनंदन व कौतुक केले. कार्यक्रमाला 'ऑनलाइन'द्वारे खेडचे आमदार दिलीप मोहिते पाटील आणि टेकवडीचे ग्रामस्थ उपस्थित होते तर व्यासपीठावर आमदार ॲड. आशिष जयस्वाल, डॉ. परिणय फुके, अपर मुख्य सचिव (ऊर्जा) आभा शुक्ला, महावितरणचे अध्यक्ष व व्यवस्थापकीय संचालक लोकेश चंद्र, संचालक (संचालन) अरविंद भादिकर, संचालक (प्रकल्प) प्रसाद रेशमे यांची उपस्थिती होती. उपमुख्यमंत्री ना. श्री. फडणवीस यांच्याहस्ते 'सौरग्राम'चे सन्मानचिन्ह व प्रमाणपत्र सरपंच विठ्ठल शिंदे, महावितरणचे मुख्य अभियंता राजेंद्र पवार, अधीक्षक अभियंता युवराज जरग यांनी स्वीकारले.

यावेळी फोरविया फाऊंडेशनचे ओंकार साळवी, सौर प्रकल्पाचे कंत्राटदार मुकेश माळी यांचाही गौरव करण्यात आला. पुणे परिमंडल अंतर्गत खेड तालुक्याच्या पश्चिम भागात भीमा नदीच्या तिरावर डोंगराच्या कुशीत असलेल्या दुर्गम टेकवडी गावामध्ये घरगुतीच्या ७०, ग्रामपंचायतीच्या २ तसेच मंदिर व प्राथमिक शाळेसाठी प्रत्येकी एक अशा एकूण ७४ वीजजोडण्या आहेत. या सर्वच वीजजोडण्या सौर ऊर्जेवर नेण्यासाठी महावितरणकडून टेकवडीची निवड करण्यात आली. सरपंच विठ्ठल शिंदे यांच्या विशेष पुढाकारातून राजगुरुनगरचे कार्यकारी अभियंता राजेंद्र येडके, उपकार्यकारी अभियंता उत्तम मंचरे, कनिष्ठ अभियंता अजय पोफळे, जनमित्र मनोज गाढवे, गणेश कोकरे, चिंतामण हांडे, संजय मेतल यांनी बैठकी घेऊन ग्रामस्थांना सौर ऊर्जेची योजना व फायदे समजून सांगितले. सर्व ग्रामस्थांनी एकजुटीने होकार देत सौरग्रामसाठी तयारी सुरु केली. टेकवडीतील सर्वच ७० घरांचा प्रधानमंत्री सूर्यघर मोफत वीज योजनेत समावेश करण्यात आला तर उर्वरित ग्रामपंचायत, मंदिर व प्राथमिक शाळेच्या ४ वीजजोडण्यांसाठी सौर ऊर्जा प्रकल्पांची नोंदणी करण्यात आली. यानंतर प्रधानमंत्री सूर्यघर योजनेतून ७० घरांसाठी प्रत्येकी एक किलोवॅटचा छतावरील सौर ऊर्जा प्रकल्प तसेच उर्वरित चार वीजजोडण्यांसाठी प्रत्येकी ७ किलोवॅटच्या सौर ऊर्जा निर्मिती प्रकल्पांचे करण्यात आले. त्यासाठी फोरविया फाऊंडेशनकडून 'सीएसआर'द्वारे आर्थिक सहाय्य मिळाले.

सप्टेंबरअखेरीस सर्व वीजजोडण्यांसाठी छतावर सौर ऊर्जा प्रकल्पांचे काम पूर्ण झाले. तर गावात सौर पथदिवे यापूर्वीच बसविण्यात आले आहेत. टेकवडी गावाला आता छतावरील सौर प्रकल्पांमुळे तब्बल ९८ किलोवॅट वीजनिर्मितीची क्षमता प्राप्त झाली आहे. त्यामुळे गावात प्रत्येक महिन्यात तब्बल ११ हजार ७६० युनिट वीजनिर्मिती होणार आहे. विशेष म्हणजे सर्वच, ७० घरांचा दरमहा सरासरी वीजवापर ७० ते ८० युनिट आहे. आता सर्वच घरांवर प्रत्येकी एक किलोवॅट क्षमतेचे सौर प्रकल्प कार्यान्वित झाल्याने प्रत्येक घरासाठी दरमहा १२० युनिट वीज निर्मिती होणार आहे. त्यामुळे सर्व घरांसह इतर वीजजोडण्यांचे वीजबिल देखील यापुढे शून्य होणार आहे. तर शिल्लक वीज महावितरणकडून विकत घेण्यात येणार आहे. लोकार्पणच्या कार्यक्रमाला 'ऑनलाइन'द्वारे जिल्हा नियोजन समितीचे सदस्य शरद बुट्टे पाटील, पंचायत समितीचे माजी सभापती कैलास सांडभोर, जिल्हा परिषद सदस्य अरूण चांभारे आदींची प्रमुख उपस्थिती होती.

इकॅम जळगाव रिजन

इलेक्ट्रिकल कॉन्ट्रॅक्टर असोसिएशन जळगाव विभागाचे वतीने दिनांक १३/१०/२०२४ रोजी हॉटेल फोर सीजन (हॉटेल मैत्रेयाज) जळगाव येथे मराठा चेंबर ऑफ कॉमर्स अँड इंडस्ट्रीज या नामांकित संस्थेकडून जळगाव विभातील संघटनेच्या सर्व सभासदा साठी GST आणि इनपुट टॅक्स क्रेडिट या विषयावर चर्चा सत्र आयोजित करण्यात आले होते या चर्चा सत्रात GST तज्ञ श्री अमेय कांकरिया यांनी मोलाचे मार्गदर्शन जीएसटी या विषयावर आणि इनपुट टॅक्स क्रेडिट या विषयावर चार्टर्ड अकाऊंटंट जळगाव असोसिएशन चे अध्यक्ष श्री अभिषेक कोठारी सर यांनी अतिशय महत्त्वाची माहीती उपस्थीत असलेल्या ठेकेदार व उद्योजक यांना या शिबिरातून दिली तसेच MSME चे श्री अनिरुद्ध ब्रहमे सर, श्री अमेय भोई ECAM चे संचालक श्री नरेंद्र शिंदेकर साहेब व टीम ECAM जळगाव यांचे कार्यक्रम यशस्वी करण्यात मोलाचे सहकार्य लाभले.

सत्र आयोजित करण्यात आले होते या चर्चा सत्रात GST तज्ञ श्री अमेय कांकरिया यांनी मोलाचे मार्गदर्शन जीएसटी या विषयावर आणि इनपुट टॅक्स क्रेडिट या विषयावर चार्टर्ड अकाऊंटंट जळगाव असोसिएशन चे अध्यक्ष श्री अभिषेक कोठारी सर यांनी अतिशय महत्त्वाची माहीती उपस्थीत असलेल्या ठेकेदार व उद्योजक यांना या शिबिरातून दिली तसेच MSME चे श्री अनिरुद्ध ब्रहमे सर, श्री अमेय भोई ECAM चे संचालक श्री नरेंद्र शिंदेकर साहेब व टीम ECAM जळगाव यांचे कार्यक्रम यशस्वी करण्यात मोलाचे सहकार्य लाभले.

Saatvik Solar Launches High-Efficiency G12R N-TOPCon Bifacial Solar Module at REI 2024

Saatvik Solar, one of India's leading solar module manufacturers, successfully showcased its latest innovations in solar technology at the Renewable Energy India Expo 2024 (REI 2024). The highlight of their participation was the official launch of the G12R N-TOPCon Bifacial G2G (600Wp – 625Wp) solar module. This new product offers exceptional power generation efficiency of up to 23.12%, enhanced 16 BB technology, and delivers 10-30% more power output compared to traditional modules, solidifying Saatvik's position as an industry leader in high-performance solar solutions.

In addition to this, Saatvik introduced its Bifacial N-

TOPCon solar modules, featuring 132 cells and a power output range of 600-625Wp. These modules offer superior performance even in low-light environments, with advanced MBB technology and bifacial capabilities that ensure reliable and efficient energy generation, along with durability in harsh environmental conditions.

Commenting on the success of REI 2024, Mr. Prashant Mathur, CEO of Saatvik Solar, said, “We were thrilled to introduce our latest solar innovations at REI 2024. Our newly launched N-TOPCon Bifacial G2G modules represent the next leap in solar efficiency, addressing the growing demand for high-performance, sustainable energy solutions in India. Saatvik Solar remains committed to advancing solar technology and supporting India's renewable energy goals.”

Saatvik Solar's participation at REI 2024 reinforced its commitment to delivering cutting-edge, affordable, and sustainable energy solutions for both industrial and agricultural sectors. The company's state-of-the-art manufacturing facility in Ambala, with a production capacity of 3.8 GW as of FY24-25, serves as a benchmark in solar manufacturing. Furthermore, Saatvik is poised for further expansion with the upcoming 4 GW integrated cell and module manufacturing line.

Saatvik Solar extends its thanks to all visitors who stopped by Booth R392, Hall 10, to explore their revolutionary products and learn more about how they are shaping the future of renewable energy in India.

For more details about

Saatvik Solar's products,

visit: https://saatvikgroup.com

Mr. Prashant Mathur - CEO

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India's green electricity tariffs may lead to financial losses for distribution companies

New Delhi: India's initiative to promote green electricity through proposed tariffs could result in significant financial losses for distribution companies, according to a study by the Centre for Social and Economic Progress (CSEP). The ministry of power's plan aims to boost renewable energy uptake among large consumers by introducing green tariffs. However, the analysis suggests these tariffs are set approximately 15% below the average cost of supply, potentially straining the financial health of energy distributors.

The report highlights that the proposed green tariffs would not cover the full cost of energy supply, posing substantial financial and operational challenges. Distribution companies, already under financial pressure, could face further difficulties if high-paying commercial and industrial consumers switch to these lower-cost green options.

The analysis also points out operational challenges, including the ability of distribution companies to meet the demand with a reliable supply of green energy, given the intermittent nature of renewable resources. This could complicate energy management and affect service reliability.

Furthermore, discrepancies in renewable energy procurement costs across different states add another layer of complexity. States like Kerala, which rely more on cheaper hydro resources, face lower costs, whereas Rajasthan, with its expensive wind energy, sees higher costs.

The CSEP urges a reevaluation of the tariff proposal to ensure that it does not lead to unintended negative impacts on the financial stability of distribution companies or the equitable access to renewable energy. The report calls for regulatory adjustments that accurately reflect the true costs of green energy supply and distribution.

As India continues to push for a transition to renewable energy, ensuring the financial viability of this shift remains a critical challenge that needs addressing to maintain the momentum towards achieving the country's energy sustainability goals.

Experience wide range of Quik series products by Lafit Lighting

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".

MECO Digital Earth Resistance Tester

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Beam Lights

Innovation and evolution is the lifeblood of any business. In a fast changing world where priorities and utilities need to keep step with times, PROLITE has always measured up and come up with alterations and variations to its product ranges wherever required.

One of our hugely popular product lines is that of Beam Lights. Beam lights come in Halogen as well as LED and are mostly used in large and sprawling premises, mostly industrial ones such as warehouses, godowns, Railway yards and similar areas.

We started off with the simple hand-held beam (figures 1&2) comprising a rounded dome with rectangular housing suitable for portable use as well as mounting. The battery provided here provides constant and steady illumination for a specified period and can be recharged once the purpose is served. Once the battery is charged it automatically slides into trickle charge to retain the energy so that it can assume full power in an emergency scenario. This is a powerful no nonsense power source ideal for industrial use at an individual level. It can also be used to look under bus/train chassis' or carriages.

We then came up with a modified model where we used two lamps instead of one as illustrated

With changing times, the demand for newer and more focused beam lights gained ground and we combined fixed beam lights with illuminated 'EXIT' signs. These beam lights could be embedded (Figures 5&6) or mounted on pillars, poles or beams (figures3&4). These beam lights are built with a swivel facility that allows for shifting the focus whenever required. Sometimes, godowns or packing areas are littered with packaging material, wires, cartons, beams etc. that become invisible at the time of power failure. In such a situation, the people trapped in the pitch dark area remain at risk of physical injury if they try to get out.

Beam lights light up immediately at the time of power failure and guide people towards the illuminated EXIT sign so that they can avoid all hurdles on the way and move out safely and easily. We even have a model which combines an EXIT sign with beam lights (figures 7&8) specially designed for premises where the exit gate or area.

We also have a variant of the portable beam light with rectangle shaped LED lights as illustrated (Figures 9&10)

Impact of BIS Certification on the Emergency LED Lights Industry in INDIA.

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