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Ethics and Social Responsibility in Organisation

It is important to do business ethically and responsibly including environmental impact, industry regulations, and compliance.

Business ethics are important for several reasons:

Reputation: Adhering to ethical standards helps companies build a positive reputation, which is important for attracting customers, employees, and investors. If a company acts in an unethical way, it could hurt its reputation and lose the trust of its stakeholders.

Employee morale: A company that operates ethically creates a positive work environment, which can improve employee morale and reduce turnover. Employees are more likely to be committed to their work and to the company when they feel that it operates with integrity.

Customer trust: Companies that have a strong commitment to ethics are more likely to win the trust of their customers. Customers are more likely to continue to do business with a company that operates with integrity and is transparent about its practices.

Legal compliance: Adhering to ethical standards helps companies comply with laws and regulations, reducing the risk of legal penalties and lawsuits. Companies that engage in unethical behavior risk facing legal consequences and damaging their reputation.

Social responsibility: Businesses have a responsibility to operate in a manner that benefits society and the environment. Adhering to ethical standards helps companies fulfil this responsibility, contributing to a better and more sustainable future

To be ethically sound, businesses must uphold the principle of social responsibility, which requires them to think about how their actions will affect the people and the planet. This can be anything from poverty and inequality to protecting the environment and making sure people have their basic rights.

Companies have an obligation to reduce the negative effects of their operations on the environment through measures such as recycling more, using less energy, and switching to more eco-friendly products and procedures. A socially responsible business will work to lessen its impact on the environment, safeguard wildlife and habitats, and promote long-term prosperity

Organizations must protect human rights by not doing things like forced labour, child labour, or discrimination themselves or by helping to make them happen. A socially responsible business, for instance, will make sure that its suppliers follow the law regarding working conditions, and that its operations don't negatively impact locals and the environment.

One way for businesses to show they care about social responsibility is by giving back to the community. In order to give back to the communities they operate in, businesses do things like donate to charities, encourage employee volunteerism, and fund social initiatives. Reports on corporate social responsibility (CSR) are another way for businesses to show they care about the world outside their doors and are willing to take action to improve it. Through these reports, investors, employees, customers, and the public can learn about what the company is doing to deal with social and environmental problems. In addition to benefiting the company's bottom line and image, adhering to ethical standards in business practices is good for the business, its employees, its clients, and society at large. Long-term prosperity and social benefits are more likely to accrue to businesses that treat their employees fairly and operate with integrity. Companies that place a strong emphasis on social responsibility tend to be seen as trustworthy and responsible by their constituents. By taking an ethical approach to decision-making, we can create a world that is equitable, responsible, and respectful of all individuals.

Waman Bhure

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नमस्कार मित्रांनो,

इकॅम अहमदनगर विभागाची रौप्यमहोत्सवी वार्षिक सभा शनिवार, दिनांक ७ ऑक्टोबर २०२३ रोजी हॉटेल संजोग, नगर मनमाड रोड, सावेडी, अहमदनगर येथे संपन्न झाली. इकॅम अहमदनगर विभागाच्या पुढील वाटचालीस हार्दिक शुभेच्छा!

सदर वार्षिक सभेस इकॅमचे अध्यक्ष श्री. वामन भुरे, महासचिव श्री. देवांग ठाकूर, मुंबई मुख्यालय पदाधिकाऱ्यांनी तसेच संचालकांनी तसेच अहमदनगर विभागाच्या सभासदांनी उपस्थिती दर्शविली. याप्रसंगी मनोरंजनाचे कार्यक्रम तसेच विद्युत साहित्याच्या प्रदर्शनाचे आयोजन करण्यात आले होते. सदर सभा खेळीमेळीच्या वातावरणात पार पडली.

इकॅम जळगाव विभागाची १२ वी वार्षिक सभा शनिवार, दिनांक ३० सप्टेंबर २०२३ रोजी हॉटेल कमल पॅरेडाईज, भुसावळ रोड, जळगाव, इकॅम पश्चिम महाराष्ट्र विभागाची ११ वी वार्षिक सभा बुधवार, दिनांक ११ ऑक्टोबर २०२३ रोजी हॉटेल लेक व्हयु, सातारा रहिमतपूर रोड, गोडोली नाका, सातारा तसेच इकॅम ठाणे विभागाची ४ थी वार्षिक सभा शुक्रवार, दिनांक १३ ऑक्टोबर २०२३ रोजी समारंभ लॉन आणि बँक्वेट, घोडबंदर रोड, ओवळा, ठाणे येथे संपन्न झाली. सदर वार्षिक सभांस इकॅम मुंबई मुख्यालयाच्या पदाधिकाऱ्यांनी, संचालकांनी तसेच सदर विभागांच्या सभासदांनी उपस्थिती दर्शविली. सदर सभा खेळीमेळीच्या वातावरणात पार पडल्या. विभागांच्या वतीने छोटेखानी विद्युत साहित्याचे प्रदर्शन आयोजित करण्यात आले होते.

सर्व सभासदांना कळविण्यात येत आहे की, आपल्या संघटनेच्या शताब्दी महोत्सवास काही महिने उरले आहेत. ECAMEX 24 प्रदर्शन BEC, गोरेगाव मुंबई येथे आयोजित करण्यात येणार असुन सदर प्रदर्शन यशस्वी करण्यास आपल्या सर्वांचा या प्रदर्शनात सहभाग गरजेचा आहे. याचप्रमाणे शताब्दी महोत्सवानिमित्त स्मरणिका, दैनंदिनी तसेच दिनदर्शिका काढण्यात येत आहे. आपणास मी आवाहन करीत आहे की ECAMEX 24 प्रदर्शन, स्मरणिका, दैनंदिनी तसेच दिनदर्शिका हे प्रकल्प यशस्वी करण्यासाठी आपण यामध्ये स्टॉल बुकींगसाठी तसेच जाहिरात देण्यासाठी जास्तीत जास्त प्रयत्न करावेत.

आपल्या शताब्दी महोत्सवाच्या निमित्ताने काढण्यात येत असलेल्या स्मरणिकेसाठी आपल्या व्यवसायासंदर्भात तसेच विद्युत क्षेत्रातील घडामोडींबाबत विविध लेख छापणार आहोत. मी आपणास आवाहन करतो की ज्या सभासदांना आपले लेख किंवा विद्युत उपक्रमांसंबंधी काही माहिती तसेच विद्युत क्षेत्रातील तज्ञ व्यक्तींचे लेख छापण्यास द्यायचे असतील तर आपण ते इकॅम मुख्य कार्यालयाकडे पाठवावेत.

शताब्दी महोत्सवी वर्षात इकॅमची सभासद संख्या वाढवण्यासाठी इकॅमकडून प्रयत्न चालले आहेत. संघटनेची सभासद संख्या वाढली तरच संघटना संपुर्ण महाराष्ट्रात पोहोचेल व संघटनेचा पाया अधिक भक्कम होईल. आपल्या सभासद संख्येत वाढ व्हावी यासाठी आपले बहुमूल्य सहकार्य आम्हाला अपेक्षित आहे. आपणास आवाहन करतो की आपल्या आजुबाजुला असलेल्या नविन विद्युत ठेकेदारांशी संपर्क साधून त्यांना इकॅम संघटनेविषयी माहिती देऊन सदर ठेकेदारांना इकॅमचे सभासद बनवून घेण्यासाठी प्रयत्न करावेत.

आपणास नम्र विनंती आहे की आपणास जर आय.ई.सी.टी. मासिक मिळत नसेल तर आपण त्वरीत इकॅम मुख्य कार्यालयाशी ईमेलद्वारे संपर्क साधून त्वरीत कळवावे व जर आपला बदललेला पत्ता असेल तर तो ही कळवावा. हा पत्ता त्वरीत आय.ई.सी.टी. मासिकाशी संपर्क साधून त्यांना पाठविला जाईल.

आपल्याला आपला व्यवसाय करताना काही अडचणी येत असतात. सदर अडचणी आपण इकॅम मुख्यालयाला लेखी कळवाव्यात. इकॅमच्या सभासदांना येणाऱ्या अडचणी सोडवण्यासाठी आम्ही कायम कटीबध्द राहु असे आम्ही आपणास आश्वासन देतो.

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The verification report stipulated in NEC 2023 includes a declaration from the designer, affirming their responsible and skilful design work in accordance with IEC 60364. Compliance with the National Electrical Code of India 2023 has been made obligatory in the CEA Measures Relating to Safety and Electric Supply Regulations 2023. To guarantee that designers meet the requirements outlined in NEC 2023 and CEA regulations, NFE is developing a certification scheme based on ISO 17024 for individuals.

The title "Designer of an electrical installation" is not a legal requirement, and many engineers working as electrical designers may not have an electrical engineering background. Therefore, the focus is on evaluating a person's skills, knowledge, and capability to perform design work, leading to certification as an NFE Certified Electrical Consultant. This approach allows individuals with appropriate expertise to engage in electrical design, recognizing the pivotal role of designers in ensuring smooth installation, commissioning, operation, and maintenance.

Qualification requirements include an engineering degree or a diploma in any engineering discipline with a foundation in electrical subjects and a minimum of two years of relevant experience.

To learn more about the NFE Certified Electrical Consultant program, including candidate prerequisites, required skills, and skill verification, please refer to the draft document available for public comments.

This information is very important regarding the centenary year ECAM and the theme of ECAMEX being 'Electrical Safety'.

Download the forms at: https://www.nfees.info/post/scheme

Satish Sinnarkar Editor, IECT

CONTENTS

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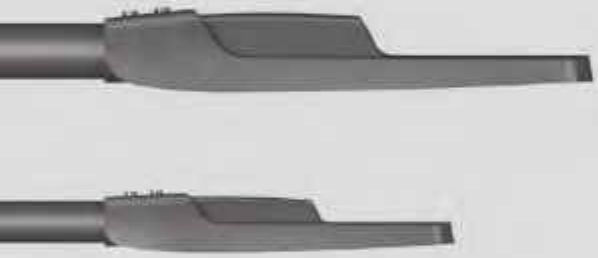

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India - Electric Wire and Cable Market Report 2023-2027

The **India - Electric Wire And Cable Market** size is estimated to grow at a **CAGR of 4.63%** between 2022 and 2027. The market size is forecast to increase by **USD 2,189.92 million**. The growth of the market depends on several factors, such as growth in renewable power generation in India, the expansion and revamping of transmission and distribution (T&D) infrastructure in India, and the increase in investment in metro railways.

This report extensively covers **market segmentation by end-user (railway, power, construction, telecom, and others) and type (power cable and specialty cable).** It also includes an in-depth analysis of drivers, trends, and challenges.

What will be the Size of the India Electric Wire And Cable Market During the Forecast Period?

Electric Wire and Cable Market in India Forecast 2023-2027

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India Electric Wire and Cable Market Dynamics

Our researchers studied the data for years, with 2022 as the base year and 2023 as the estimated year, and presented the key drivers, trends, and challenges for the market. Although there has been a disruption in the growth of the market during the COVID-19 pandemic, a holistic analysis of drivers, trends, and challenges will help companies refine marketing strategies to gain a competitive advantage.

Driver - Growth in renewable power generation in India

One of the main factors that is significantly contributing to the growth of the electric wire and cable market in India is the substantial growth of renewable power generation in the region. As a result, there is an increase in demand for efficient, durable, and technologically advanced wiring solutions across the region.

Moreover, there is an increased requirement for reliable interconnections and transmission systems. fuelled by the expansion of solar and wind energy installations across the nation. As a result, the demand for electric wires and cables has surged as they are an essential component of these energy networks, enabling the seamless transfer of generated electricity to distribution grids and end consumers. Hence, such factors are expected to drive India electric wire and cable market growth during the forecast period.

Trends - Increase in sales of HVDC power cables

There is increasing adoption of High-voltage direct current (HVDC) underground power cables as they are considered the best option for long-distance and high-voltage safe power transfer. The main advantage of HVDC power systems is that they offer a reliable option for long-distance bulk power delivery.

Moreover, several energy products are announced by the European Commission for the construction of cross-border infrastructure to create an internal energy market and enhance the security of the energy supply. As a result, it will fuel the demand for high-voltage direct current (HVDC) underground power cables for the transfer of high loads of electricity across the country. Hence, such factors are positively impacting the market which in turn will drive the India electric wire and cable market growth during the forecast period.

Challenge - Volatility in raw material prices of electric wire and cable

The electric wire and cable market in India highly depends on materials such as copper and aluminum for the efficient conduction of electricity. the price of these raw materials is influenced by several factors such as supply-demand imbalances, geopolitical tensions, and economic conditions.

Moreover, such factors are fluctuating the prices of these raw materials which in turn is impacting the cost structure of cable production, resulting in pricing inconsistencies, and profitability concerns. As a result, several manufacturers find it challenging to maintain stable pricing for their products, creating hindrances in forecasting and budgeting. Hence, such factors are expected to hinder the India electric wire and cable market growth during the forecast period.

India Electric Wire and Cable Market Segmentation by End-user and Type

End-user Segment Analysis:

The **railway segment** is estimated to witness significant growth during the forecast period. One of the main countries with the largest railway network in the world after Russia and China is India. The Indian railway network includes 126,366 km of tracks covering a distance of 67,956 km. Factors such as the expansion and modernization of the country's railway network is significantly contributing to the growth of this segment.

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The **railway segment** was the largest segment and was valued at **USD 2,070.06 million** in 2017. There is an increasing investment by the Indian government in the railway sector with the goal of improving connectivity and enhancing transport infrastructure, resulting in an increase in demand for electric wires and cables. Furthermore, the electrification of railway tracks is fuelling the demand for electric wire and cable in the region. Furthermore, there is a

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growing focus by the Indian government on renewable energy sources which has further fuelled the demand for electric wires and cables in the railway segment, as solar panels are being increasingly installed in railway stations and on rooftops of trains. Hence, such factors are expected to fuel the growth of this segment which in turn will drive the India electric wire and cable market growth during the forecast period.

Type Segment Analysis:

Based on **type**, the segment is classified into power cable and specialty cable. A power cable can be referred to as an electrical cable that is made of one or more electrical conductors that are usually held together by a sheath. The main advantage of a power cable is that it can be buried in the ground, run overhead, or exposed as permanent wiring within buildings. Some of the main classifications of power cables include low-tension cables (LT cables) high-tension cables (HT cables) low-tension cables (LT cables). Factors such as the continuous flow of investments by the government of India into strengthening the national power transmission infrastructure are fuelling the growth of the segment which in turn will drive the market growth in India during the forecast period.

Who are the Major India Electric Wire and Cable Market Companies?

Companies are implementing various strategies, such as strategic alliances, partnerships, mergers and acquisitions, geographical expansion, and product/service launches, to enhance their presence in the market.

Apar Industries Ltd: The company offers electric wire and cables such as UNIDAC anti-theft cables, instrumentation, and signaling cables.

Cable Corporation of India Ltd: The company offers electric wire and cables such as special HRPVC grade PVC cables and 3.3 kv grade cables.

We also have detailed analyses of the market's competitive landscape and offer information on 20 market companies, including:

Diamond Power Infrastructure Ltd., Finolex Cables Ltd., Gupta Power Infrastructure Ltd., Havells India Ltd., KEI Industries Ltd., Lapp Holding SE, LS Corp., Panasonic Holdings Corp., PLAZA CABLES, Polycab India Ltd., RR Kabel, Sark Cables Pvt. Ltd., Sterlite Power Transmission Ltd., Syska Led Lights Pvt. Ltd., Traco Cable Co. Ltd., Universal Cables Ltd., V Guard Industries Ltd., and Vindhya Telelinks Ltd.

Technavio report provides an in-depth analysis of the market and its players through combined qualitative and quantitative data. The analysis classifies companies into categories based on their business approaches, including pure-play, category-focused, industry-focused, and diversified. Companies are specially categorized into dominant, leading, strong, tentative, and weak, based on their quantitative data analysis.

Segment Overview

The India electric wire and cable market report forecasts market growth by revenue and provides an analysis of the latest trends and growth opportunities from 2017 to 2027.

- End-user Outlook (USD Million, 2017 - 2027)
  - Railway , Power, Construction, Telecom, Others
- Type Outlook (USD Million, 2017 - 2027)
  - Power cable, Specialty cable

India Electric Wire And Cable Market Scope

Report Coverage	Details
YoY growth 2022-2023(%)	4.08
Competitive landscape	Leading Companies, Market Positioning of Companies, Competitive Strategies, and Industry Risks
Key companies profiled	Apar Industries Ltd., Cable Corporation of India Ltd., Diamond Power Infrastructure Ltd., Finolex Cables Ltd., Gupta Power Infrastructure Ltd., Havells India Ltd., KEI Industries Ltd., Lapp Holding SE, LS Corp., Panasonic Holdings Corp., PLAZA CABLES, Polycab India Ltd., RR Kabel, Sark Cables Pvt. Ltd., Sterlite Power Transmission Ltd., Syska Led Lights Pvt. Ltd., Traco Cable Co. Ltd., Universal Cables Ltd., V Guard Industries Ltd., and Vindhya Telelinks Ltd.

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Dr Bijay Kumar Mohanty assumes charge as Director (Finance) of IREDA

New Delhi: Dr Bijay Kumar Mohanty has taken charge as the Director (Finance) of the Indian Renewable Energy Development Agency Limited (IREDA). He has taken over the charge of the post with effect from October 12. Prior to this, he was serving as Head of Department and Senior General Manager (Finance & Accounts) at REC Limited.

The Appointments Committee of the Cabinet (ACC) has approved the appointment on October 7, 2023 marks a significant addition to IREDA's leadership team. Subsequently, in an order issued by the Ministry of New & Renewable Energy on October 12, Dr Mohanty has been appointed to the post for a period of five years from the date he assumed charge or until further orders, whichever is earlier.

Dr Mohanty, distinguished senior finance professional with an illustrious career spanning over 25 years in the Indian power sector, has rich xperience and expertise in financial management, corporate governance & compliance, risk management, project management, and legal functions. His career in the Indian power sector has been marked by significant contributions, and he has played invaluable roles at Odisha Power Transmission Corporation Limited and CESCO Distribution Company, where he honed his expertise across the entire power sector value chain.

His academic background includes Ph.D., M.Phil, M.Com, MA (Public Administration), and LL.B degrees in addition to a postgraduate diploma in Management. He is a distinguished fellow member of the Institute of Cost & Management Accountants of India and holds a Ph.D. in Commerce from KIIT, Bhubaneswar.

IREDA's Chairman & Managing Director (CMD) Pradip Kumar Das extended his warm wishes and said, "We are happy to welcome Dr. Bijay Kumar Mohanty to the IREDA family as the Director (Finance). His exemplary track record in the Indian power sector and expertise in finance, coupled with his passion for renewable energy, make him the ideal leader not only for guiding our financial functions but also for sharing his insights for business promotions. Dr Mohanty's leadership will play a pivotal role in further strengthening IREDA's commitment to sustainable and clean energy solutions in the country."

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Story of Ashida Electronics

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Ashida Electronics is a leading provider of Protection and Automation solutions in Electrical Transmission and Distribution field. Ashida, based in Thane, Maharashtra, has multiple patents to its credit and have long legacy of developing a wide range of solutions for the Electrical industry. It is a leading manufacturer of Numerical, Static and Auxiliary Protection relays.

The story starts here with a nation, Abu Dhabi. Ashida was trying to get orders from the Abu Dhabi Electrical Utility for the electrical distribution fuses and relays since last 4-5 years. But every time they were asked to do RTDS, which is a very expensive process. But this year India's image as a world leader, has changed the market scenario and for the first time the clause of RTDS was dropped by Abu Dhabi and a trial order is given to Ashida.

It's important to note that being located in a renowned country can provide many advantages, success in export businesses. Today India has emerged as a renowned country and has favourable trade agreements with many countries.

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Why does Prolite participate in exhibitions, seminars and conferences regularly?

One of the greatest B2B and even B2C platforms for sales promotion and marketing is undoubtedly an exhibition. This is a platform where people do not come to visit a particular kiosk or buy a particular product. The reason invariably is to browse and gain knowledge and collect information about that particular range of products and/or services on display before taking an informed decision.

When a casual browser visits Prolite's stall and out of sheer curiosity, walks in and ASKS, what he or she learns may probably form the foundation of a greater and better safety environment in the future. The visitors learn about products that are absolutely essential for installation in enclosed spaces and how to use them in the golden moments when a little hesitation can cause loss of life itself. They learn that it is not only essential to install these paraphernalia but mandatory as per NBC. They learn that if the architects and builders/developers have neglected to do so in the premises where they dwell or even visit, they have every right to take them to task for putting their lives and belongings at risk. They come out much wiser. So, if a CEO or MD or corporate head decides to visit an exhibition related directly or even indirectly, to safety and security they would be well advised to not just take their family along but also the cook, the sweeper, the gardener and the work maid or anyone else who wants to tag along.

Recently, Prolite Autoglo Ltd. had a robust exposure at Kings Excellence Awards held on 1st Sept, 2023 at the Taj Mahal Hotel, in Mumbai where the company received the **"Best Evac-Safe Solutions"** Award. We also had a stall at this event organized by King's Expomedia where they gave away awards to firefighter brave hearts. Prolite's products elicited great interest amongst the 150 odd people who were there including dignitaries and big names in the fire safety segment across India.

Mr Jaidev Sanda, General Manager & Nisha Singh, PR Executive delivered a detailed presentation on Prolite, its work and its newly launched product **"Rescue & Search Tower Light"** on the occasion which was hugely appreciated. Prolite showcased around 7 prominent products at the event including floor embedded Passerelle light, Multi light, Exit lights, Conversion module and some Autoglo signages too. Some company representatives who attended even said they would like to install some of the products in their premises.

The event was a super hit and Prolite stall at Taj Mahal Hotel was buzzing with activity and this in itself, was an endorsement of the company's performance in recent times.

Disaster Management and safety related bodies and professionals are often frustrated by the lack of awareness amongst common people about the most basic protocols and rules governing the subject. That is why exhibitions like Fire India, OSH India, ISEE are needed and the robust response that the exhibition attracted was heartening. Prolite's stall at OSH India also saw great response there. In ISEE, the company displayed its products directly related to safety concerning Lifts, Elevators and Escalators and more than 300 footfalls gladdened the hearts of the attendants at the stall. Especially because the products were supplementary to the main subject of the show.

Besides all that, the company also had on display one of the sleekest Emergency lights meant for the lift cabin. Prolite got some inquiries about their products from visitors from different parts of the country who visited the stall, including builders and developers who attended the exhibition.

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AI IN ELECTRICAL POWER GENERATION DISTRIBUTION LANDSCAPE

Ajit N. Kulkarni
Electrical Consultant

Preface

Energy generation distribution 'landscape' may be defined as area from where power is generated, transmitted and distributed to consumers. This may comprise of generation station, transmission lines, cable networks etc. On this landscape, new chapter is getting introduced which is the future of electrical power to consumer through smart grid. Future will be artificial intelligence in this, with new innovation, precise data calculations, revised soft wares etc. As we know, as growth increases electrical power is growing. At the same time requirement of cleaner, more sustainable renewable energy sources is increasing. Complexity in grids is increasing. Increase in EV system, microgrids etc. is happening. At the same time focus is turning towards increase in system efficiency also. In such challenging scenario AI will play dominating role in future. Let us understand in details present condition, how the same can be improved and additional benefits out of improvement.

Present Power generation scenario

Presently Power Generation is happening through renewable, non-renewable energy sources.

In case of non-renewable energy, fossil fuels are widely used and is the most common method of electricity generation. This involves burning of fossil fuels such as coal, natural gas, and oil in power plants those produces steam. Steam produced, drives turbines, which drives generators to generate electricity. This method is widely used but it has environmental side effects such as air pollution, greenhouse gas emissions, and hence climate change is happening affecting ecology. So also, resources are finite and their availability is diminishing. Nuclear Power generation is also part of the same. Nuclear power plants generate electricity by same method except nuclear fission which generates heat and in turn develops steam which is used to run turbines to generate power through generator. This method produces a significant amount of electricity with low greenhouse gas emissions. But it has its own limitations such as availability of uranium, challenge of disposal of radioactive waste. Also, there is concern of safety and minute care has to be taken to avoid accidents else it affects human health very badly.

In case of renewable energy, power generation is happening through natural resources like sun, wind, water. Accordingly solar, wind, hydro and geothermal power plants generate the electricity. Solar power plants use sun radiation for generating electricity through solar panels. Wind operated moves wind turbines to generate electricity. In case of hydro power, water is accumulated in dam and falling or flowing water is used to generate electricity by directing water over turbine. Whereas, geothermal power plant uses heat conditions, hot enough close to the surface near to seismic and volcanic zone. Power is also generated through ocean tides which is natural way to generate power. Energy produces out of renewable sources may be called clean energy as it produces less or no emissions without any fuel cost.

Power generated in generating station is stepped up for economical transmission of power. Power is transmitted through transmission towers and bring at load dispatch center. At load dispatch center power is stepped down and sent to

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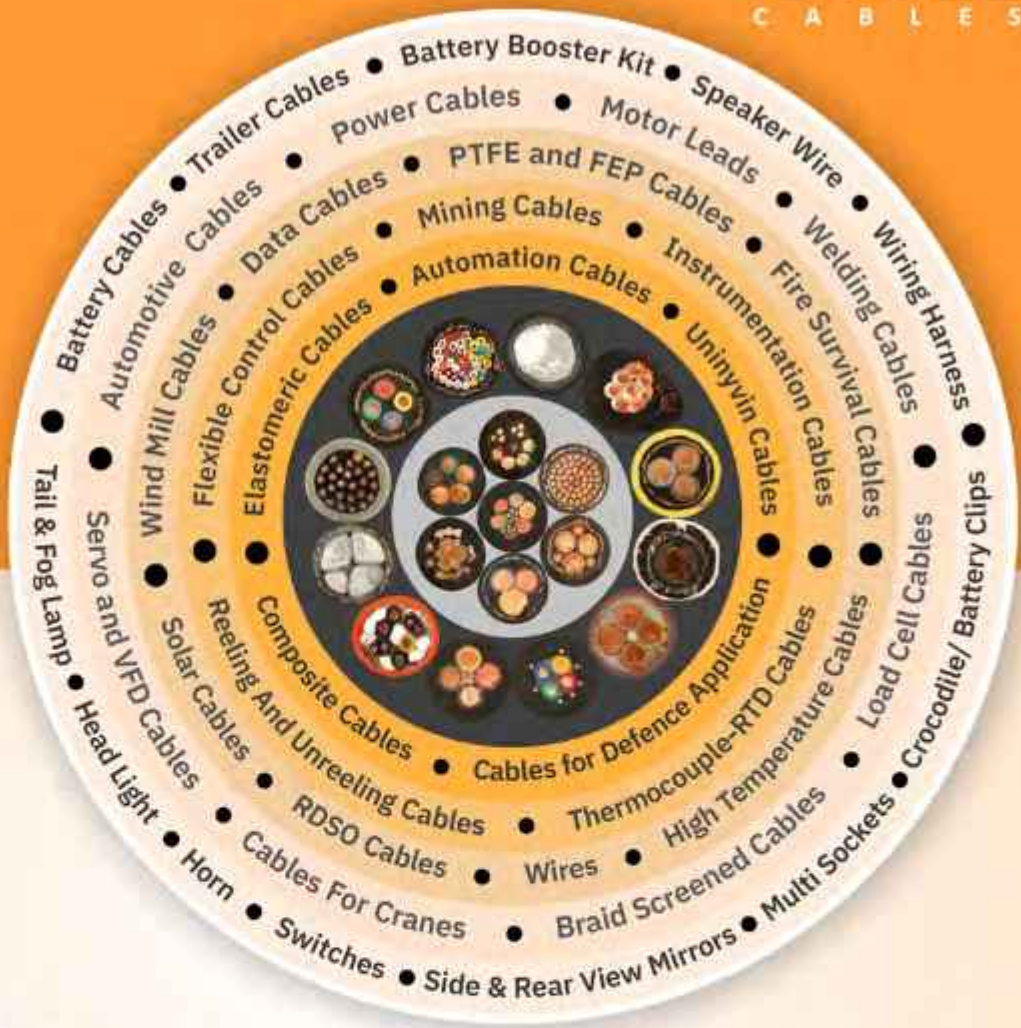

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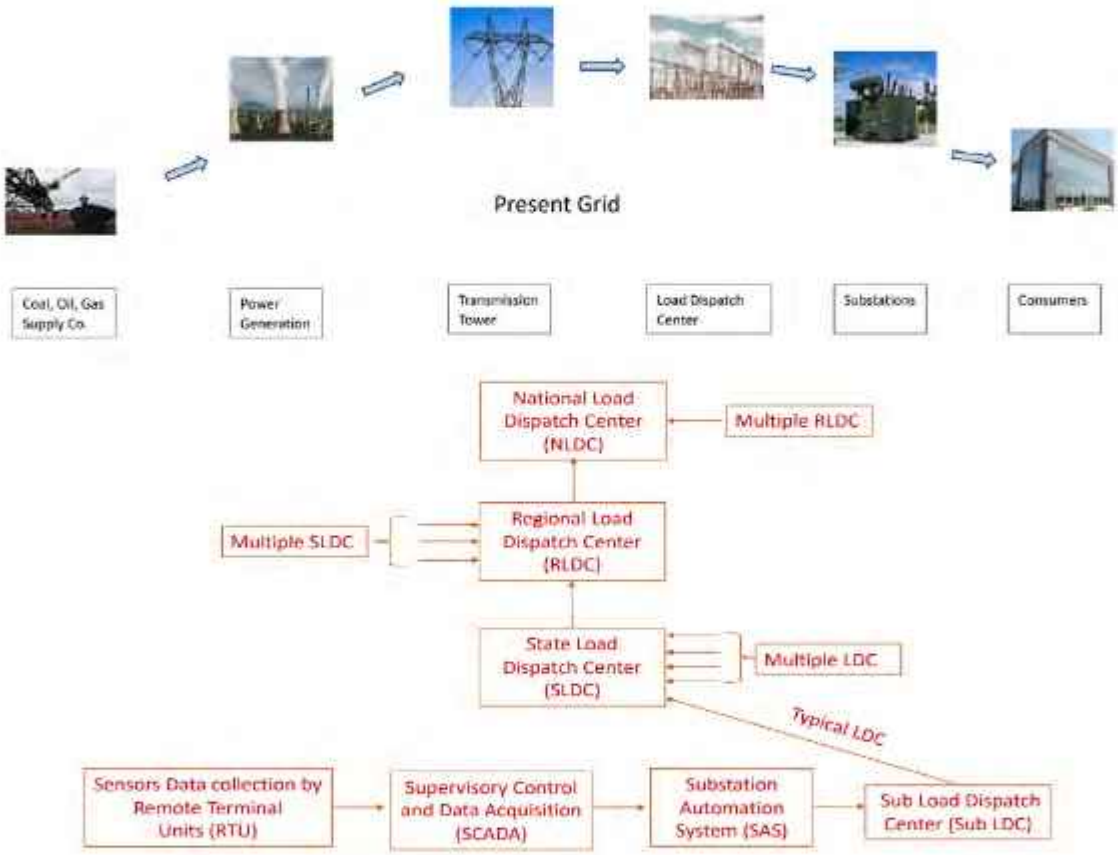
substations through overhead lines or high voltage cables. In some cases, load dispatch centers releases power directly to EHV consumers. At substation power is again stepped down to reach to industries, commercial complex or residential complex through their network or through express feeders directly. Power generating stations are connected together to form grid. Power grids will be localized grids or state grids or national grids. As such lot of complexities are present in total system and they depend on each other. Hence this grid structure at all levels should be healthy to receive and distribute power at any given time. Grid has to be always balanced so that the load demand and generation meets each other then only efficiency will be maintained which is tricky part. At the same if demand increases due to some reason or power is pulled which is not controlled or isolated then there are likely chances of grid failure. This situation may further give cascading effect resulting in total darkness in few areas. At the same time supply companies has to ensure that at no given time power generation should be wasted and consumers should get power always. Present scenario is explained in following figures-



TYPICAL ARRANGEMENT OF PRESENT NATIONAL GRID DATA TRANSFER THROUGH SCADA

Limitations in existing system

Presently supply companies and energy departments are struggling hard to generate power, encourage renewable sources, stabilize the grid and also to give power to each consumer by implementing present automation tools which they have in hand. While doing so, they face lot of challenges and there are many limitations in existing power generation, distribution and grid management. These are-

1) Consistency of Renewable Energy Sources- Renewable energy sources like solar and wind are irregular, depending upon nature. This makes challenging to maintain a reliable power supply.

2) Grid Management and Resilience- Grids face

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challenges related to stability, reliability, and resilience, especially in the face of extreme weather events and cyber threats.

3) Environmental Impact- Power generation through fossil fuels, have a significant environmental impact. This is contributing greenhouse gas emissions and pollution.

4) Maintenance and Asset Management- Present maintenance practices are reactive and costly, leading to downtime and reduced efficiency.

5) Demand and Load Management- Increase in load due to industrial and residential complex, EV charging station etc. is challenge for grid. Balancing supply and demand during peak periods can be day to day hard mission, leading to potential blackouts or the need for additional capacity.

6) Grid Integration of Distributed Energy Resources- Integrating different energy resources, such as solar power, wind power, microgrids etc. connected to the grid can be complex and require coordination.

7) Energy Storage Optimization- This is new concept coming up. Efficient energy storage is essential to balance supply and demand, especially for intermittent renewable sources.

8) Transmission losses- Power loss in transmission is very big challenge for companies. And burden is getting passed partly on consumers and for which there is always opposition or government have to support supply companies. Hence to reduce these losses is concerning part for supply companies.

9) Outages- Due to old lines, substation equipments, improper maintenance etc. there are many outages happens in system. That is revenue loss and consumer dissatisfaction and additional cost. Hence it is issue for companies.

10) Cybersecurity- Power generation and distribution systems are vulnerable to cyberattacks, which can have severe consequences like grid failure.

How AI (Artificial Intelligence) can Improve the system

After understanding the present limitations in power system, let us see what will be benefits achievable after using AI in system and which will overcome those limitations. AI could potentially address these limitations in power system through enhanced features which includes-

1) Consistency in Renewable Energy Sources- Enhanced AI algorithms can improve the prediction of renewable energy generation based on weather conditions, historical data, and real-time sensor inputs. This can enable better grid management by predicting and managing power fluctuations, leading to more stable energy supply.

2) Grid Management and Resilience- AI can monitor grid conditions in real-time, identify probable problems, and take decision to reroute power automatically or isolate the faults, or implement demand response strategies to enhance grid resilience. While doing so, machine learning will help to predict and prevent grid failures and improve overall grid management.

3) Environmental Impact- AI can optimize power generation as per demand and overall efficiency will increase. This will help in saving the resources and reduction in environmental impact. It will minimize the emissions by dynamically adjusting the mix of energy sources based on real-time data and environmental conditions. Additionally, AI can facilitate the integration of more renewable energy sources into the grid, further reducing environmental impact.

4) Maintenance and Asset Management- AI powered predictive maintenance uses data from sensors and equipment to forecast maintenance requirements accurately. This reduces downtime, lowers maintenance costs, and extends the lifespan of power generation assets. Spare parts can be readily arranged in advance and assets will be tracked in time for quantification and replacement.

5) Demand and Load Management- AI can enable

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sophisticated demand response programs. This includes encouraging consumers to reduce electricity usage during peak demand or use electrical storage. Also, to give incentives during non-peak period. These fine adjustments will create dynamism for usage of power and unwarranted additional capacity requirements can be reduced. Another advantage will be enhancement of grid stability because drawing power as and when required will be curtailed and will organize properly. Web portals, mobile app will give timely alerts, usage patterns, asset management, predictive maintenance etc. in offices in hand. So immediate corrective action is possible.

6) Grid Integration of Distributed Energy Resources- Seamless integration of distributed energy sources are possible through AI by optimizing their operation, ensuring they contribute to grid stability, and managing their interactions with the central grid efficiently. Efficient coordination between solar power, wind power, microgrids etc. connected to the grid can be done.

7) Energy Storage Optimization- AI can optimize energy storage systems by predicting energy demand patterns and adjusting the charging and discharging of batteries or other storage technologies accordingly. This ensures that energy storage is used effectively, reducing waste and enhance the grid stability.

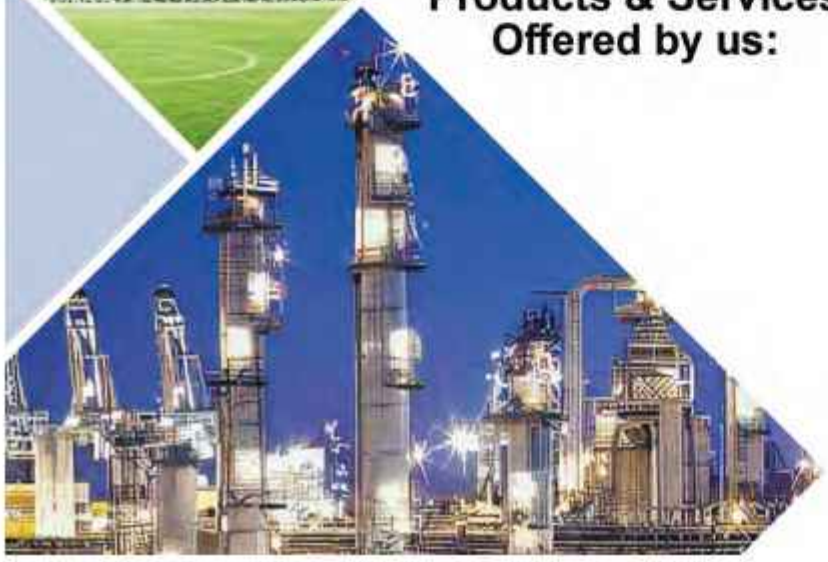
8) Transmission losses- Power loss in transmission can be reduced by first understanding the fine points where loss is happening. Length of lines, improper maintenance, old inefficient equipments, reactive losses etc. contributes to losses. If these are understood thoroughly through AI and equipments are maintained/changed in time then reduction in losses can be achievable.

9) Outages- AI can identify old lines, substation equipments, improper maintenance etc. through their asset management and likely faults in advance. With this, outages will get minimized and there will not be unnecessary revenue loss and will get consumer satisfaction.

10) Cybersecurity- AI can enhance cybersecurity by continuously monitoring network traffic for irregularities, identifying potential threats, and implementing precise security measures to protect critical infrastructure.

Summary

AI in power generation can address many limitations by improving prediction, optimization, grid management, and environmental impact reduction. The enhanced features of AI, such as advanced machine learning algorithms and real-time data analysis, play a crucial role in overcoming these limitations and ensuring a more reliable, efficient, and sustainable power generation infrastructure. With future AI used smart grids will have two-way real-time communication, interconnected network, multiple sensors, fully digitalized, automatic control, asset management, predictable maintenance, energy conservation, precise demand control and high level of cybersecurity.



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GST Panel Refuses To Cut Tax Rate on Batteries for EVs

The fitment committee of the goods and services tax (GST) Council, at a meeting held on Wednesday, rejected the industry request for reducing the GST rate on lithium-ion batteries for electric vehicles from 18% to 5%.

According to sources, the reason for not reducing the levy is that apart from EVs, lithium-ion batteries are also used in multiple other products including mobile phones and portable electronic goods.

The tax is seen as an important source of revenue which the government does not want to lose given the huge expenditure on social welfare and infrastructure projects in the run-up to the key Assembly elections in states and the Lok Sabha polls early next year.

The fitment committee, which comprises revenue officials from the Centre and states, is reported to have rejected the request of industry for a reduction of duty on over 10 goods.

However, it has recommended the exemption of GST on powdered millet sold in loose form where at least 70% millet is used. It has also recommended a 12% GST rate for millets sold in prepacked and branded form.

But it has refused to cut the rate for prepared produce made out of millet. These recommendations will be taken up in the next GST council meeting salted for 7th October.

The committee also took no decision on the GST rate on scrap iron and steel as it felt more discussion is required and it is expecting a report on the issues involved by a sub-committee.

It also deferred a decision on imposing a uniform cess on cigarettes and *bidi*. The industry had claimed that the current cess system is not uniform.

Maharashtra to get its first decentralised Renewable Energy Policy

The DRE Policy will demonstrate Maharashtra's unwavering commitment to pioneering a future where energy is sustainable, accessible, and instrumental in propelling the state toward an ...

The initiative was announced by Dr Kadambari Balkawade, Director General of the Maharashtra Energy Development Agency (MEDA), at a Town Hall meeting on Thursday, spearheaded jointly by the Environment and Climate Change Department, Government of Maharashtra, under its climate programme 'Majhi Vasundhra 4.0', along with Climate Voices under Mission LiFE.

"This pioneering policy intends to encapsulate a spectrum of energy sources, including wind, solar, and hydro, placing Maharashtra on the map for progressive energy strategies," Dr Balkawade said.

The DRE Policy will demonstrate Maharashtra's unwavering commitment to pioneering a future where energy is sustainable, accessible, and instrumental in propelling the state toward an ecologically balanced future.

"Our draft policy has been shared with the state for approval and will be subsequently announced followed by suggestions," she said.

Pravin Darade, Principal Secretary of the Environment and Climate Change Department, affirmed the state's readiness and strategic framework with the Maharashtra Climate Action Plan, District Level Action Plan, and respective city action plans.

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Healthcare Lighting Resources

We have a number of different resources for you to further explore Healthcare Lighting solutions from Cree Lighting. Our Healthcare application guide is especially beneficial for a deep insight to where this can be used and how. Other resources include webinars, and even a whitepaper that focuses on how hospital lighting can affect patients in healthcare facilities.

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WHO IS AN NFE CERTIFIED ELECTRICAL INSTALLER

NFE
NATIONAL FEDERATION OF ENGINEERS FOR ELECTRICAL SAFETY

Electrical Safety Regulations and Statutory Requirements: "Electrical Contractor is statutory as per the central regulations". Criteria to become contractor is the state governments responsibility. Some states have qualification + experience, whereas others consider only experience to qualify as a contractor. In most cases contractors are not doing the actual job, instead supervisor or the electrician does the actual installation job. (ref regulation 31 (1)).

The regulation mandates "electrical safety officer" in factories to operate and maintain an installation. The skill of "electrical safety officer" may not be adequate to carry out an installation work. Similarly, the skill of "supervisor under a contractor" may not be adequate to carry out the operation or maintenance work. Engineers working with installation and commissioning of equipment such as UPS, Drives, Panels, BMS system, etc are another category which do not fall under regulations and have any skill certificates.

Due to the advent of new technologies such as Solar PV and EV, skilled engineers are a need of the day to install and maintain a modern electrical installation.

NFE scheme is to create and maintain skilled personals for these works. Hence more than the qualification of a person, his skills, knowledge and capability to carry out an installation or maintenance is verified and the person is certified as NFE Certified Electrical Installer.

Understand the NFE Certified Electrical Installer, the prerequisite for applying as a candidate, skills required to apply and verification of skill by NFE, download the forms at https://www.nfees.info/post/scheme and comment.

Become a member of NFE and a part to build "ELECTRICALLY SAFE BHARAT".

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NFE is the fastest growing not-for-profit organisation in India, registered as a society, with a vision to create ELECTRICALLY SAFE BHARAT.

NTPC planning Rs10000 crore capex fr renewables

NTPC Renewable Energy (NTPC-REL), green energy arm of the state-run power giant, is planning to set up 1.5 gigawatt (GW) of renewable energy capacity this year of which, largely will be for solar energy, its Chief Executive Officer, Mohit Bhargava told us in an exclusive interaction.

He added that NTPC-REL is targeting about Rs 10,000 crore capital expenditure for this year. This amount would include ongoing, under-construction projects, and also pipeline projects for next year. This capex is at the NTPC Renewables level, and not NTPC REL alone.

About 150 MW megawatt (MW) will be for wind projects which will be a part of hybrid projects only.

On the subsidiary's solar project timeline for the coming years, Bhargava said that out of their overall target of 60 GW capacity, at present, NTPC-REL is working on a pipeline of 20 GW of renewable energy projects.

Of this, 3.3 GW is operational, over 7 GW is under-construction, and the company plans to place orders for the balance 10 GW also in the next 10-12 months. They are aiming that by 2026, a large part of this should be operational.

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MECO MULTIFUNCTION POWER AND ENERGY MONITOR MODEL "MFM96S"

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"MECO" Multifunction Power & Energy Monitor, Model : "MFM-96S" Microcontroller based with MODBUS RTU Protocol is indigenously designed, tooled and manufactured by the R&D Department of MECO. It is Competitively Priced.

"MFM-96S" Size 96x96 Eliminate using conventional panel with 10 different meters. It save more than 50% of the cost in panel, as it reduce size of panel, with One MFM-96S having 10 parameters and very little wiring. **"MFM-96S"** is built with 4 rows, Super Bright Red LED Displays with 4 Digits Resolution and 8 Digit Resolution (Energy Import-Export - 4 Quadrant operations). It has Inbuilt Memory to store CTR, PTR, Inst. Address, Password & Energy Reset facility. RS485 Port with MODBUS Protocol & Power Master Software to store parameters on the PC is optional.

"MFM-96S" has Simultaneous Display of 10 Parameters, 48 Values on 16 Pages for Voltage, Current, Active Power, Reactive Power, Apparent Power, Frequency, Power Factor, Active Energy, Reactive Energy & Apparent Energy (Import / Export - 4 Quadrant operations).

TRMS Measurement, 3Phase 3Wire / 3Phase 4Wire (User Selectable), CTR, PTR, Instruments address, Password Protected, Energy Reset & Auto / Manual Scroll Display (Programmable) are key features of **"MFM-96S"**. Sturdy, Moulded Derlin with Suitable Hardware for mounting is additional features.

"MFM-96S" is Ideal to monitor & acquire Power Data from Generator, Remote Monitoring, Building Management System, PLC's / SCADA

MECO Phase Sequence Indicator Model PSI 2016

In Electrical System, many times identification of Correct Phase Sequence is important to proceed further for testing or installation of equipment. MECO Phase Sequence Indicator Model PSI 2016 is used to determine the Phase Sequence R, Y & B for Three Phase installation.

It is important that Phase Sequence is known properly prior to Energizing Electrical Motors, Rotating and other equipment. Incorrect connection with wrong sequence could cause damage to the equipment.

The operation of many Measuring, Monitoring, Controlling & Automation Systems depends on Correct Phase Sequence.

MECO PSI 2016 rugged and handy have key features are like Three Phase Sequence Indication via LED & Buzzer (Clock wise) as well as Reverse (Wrong) Phase Indication (anti clock wise) and open Phase Indication. Additional features are Phase Presence Indication from as low as 60V AC (PH-N).

MECO PSI 2016 work without Battery and without AC Adaptor. It is Easy and Safe to use as having Heavy Duty Insulated Crocodile Clips & Colored Test Probes for R, Y, B Phase Connections.

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- Heat Shrink Tubing for Bus Bar Insulation upto 52KV
- Terminal Protector/ Right Angle Cable Boot

LT- EPOXY TYPE CABLE JOINT KITS (with Resin_Hardner)

- 3M make PU Resin based cast resin type Straight Through Jointing Kits ranging from
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- Silicon Tape • Vinyl tape • Aluminium foil / Copper foil tape
- Mining tap • Sealing & Insulating - Mastic Tape
- Corrosion protection tape • Special use tapes

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इलेक्ट्रिकल कॉन्ट्रेक्टर्स असोशिएशन ऑफ महाराष्ट्र, ठाणे विभागाची ४थी वार्षिक सभा

इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोशिएशन ऑफ महाराष्ट्र यांची ठाणे विभागाची ४थी वार्षिक सभा लॉन्स आणि बँक्वेट, घोडबंदर रोड, ओवळा, गोवनी पाडा, ठाणे (प.) येथे मोठ्या दिमाखात संपन्न झाली.

या सभेस इकॅम महाराष्ट्राचे अध्यक्ष श्री. वामन भुरे, उपाध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकुर, खजिनदार श्री. रावसाहेब रकिबे, तसेच पुणे, नाशिक, अहमदनगर, धुळे, जळगाव, नवी मुंबई-कोकण इ. रिजन मधून पदाधिकारी आले होते.

सभेचे सूत्र संचालन श्री विनायक शिंदे यांनी केले. ठाणे विभागाचे चेअरमन श्री. निलेश तिवरामकर, सचिव श्री. दर्यावरसिंग गिरासे, खजिनदार श्री अजय सावंत, संचालक श्री. महेश दळवी, श्री. महेश पाठकर, श्री युवराज पाटिल व अविनाश नायडू यांनी मोठी मेहनत घेत सभेचे भव्य आयोजन केले होते. श्री. माधव गद्रे यांचे विशेष सहकार्य लाभले. सभेच्या ठिकाणी १८ स्टॉलचे इलेक्ट्रिकल उत्पादनाचे प्रदर्शन भरवले होते. यात अनेक नवनवीन उत्पादनांची ओळख करून देण्यात आली. विशेषतः मे. पॉलिकॅब यांनी त्यांच्या कंपनीच्या उत्पादन व त्यांच्या कंपनीच्या उत्तुंग भरारीबद्दल प्रोजेक्ट स्क्रिनवर प्रेझेंटेशन दिले. सभेस ठाणे विभागातून शंभरच्यावर तसेच इतर विभागातून जवळपास ३०-४० सभासद उपस्थित होते.

भव्य स्टेज, वातानुकूलित सभागृह, भोजनाची उत्तम व्यवस्था अशा अनेक सुविधांनी कार्यक्रमाची शोभा वाढवली होती. सभेची सुरुवात दीपप्रज्वलनाने झाली. त्यानंतर इकॅम, महाराष्ट्राचे माजी अध्यक्ष श्री सुनील भुरे यांना श्रद्धांजली दिली. प्रथम गतवर्षातील कामांचा आढावा घेण्यात आला. त्यानंतर जमाखर्चाचा आढावा घेण्यात आला. विभागाच्या तीन संचालकांची निवडणूक पार पडली. त्यामध्ये श्री अक्षय कोठूर (मे. ओमसाई इलेक्ट्रीकल एन्टरप्राइझेस) श्री इरफान शेख (मे.जे.डि.एस. इलेक्ट्रीकल्स आणि रेफ्रिजरेटर्स) श्री. राजेश टिपाले (मे. हि.राज इलेक्ट्रिकल्स) यांची बिनविरोध संचालक पदी निवड झाली. सर्वांनी त्यांचे अभिनंदन केले. उपस्थित सभासदांनी मनोगत व्यक्त केले व व्यवसाय करत असताना येण्याऱ्या अडचणी मांडल्या. त्यानंतर सर्व प्रायोजकांचे सत्कार या ठिकाणी करण्यात आले.

मंचावरील सर्व मान्यवरांच्या मनोगतानंतर उपाध्यक्ष श्री उमेश रेखे साहेबांनी ठाणे रिजनची संख्या वाढविण्याबाबत आव्हान करत आपले मनोगत व्यक्त केले. याला पुष्टी करत श्री वामन भुरे, अध्यक्ष इकॅं महाराष्ट्र यांनी विजेचे 'हत्त्व तसेच त्याला हाताळण्याचे 'हत्वपूर्ण का' आपण करतो व असे काम करणाऱ्या सभासदांच्या संघटनेचा आपण भाग आहोत आणि ही आपली संघटना १०० व्या वर्षांत पदार्पण करत आहे ही अतिशय अभिमानाची बाब असून १०० वर्षात कार्यकर्त्यांची गरज असून संघटनेच्या भव्यदिव्य कामामध्ये सहभाग घ्या असे सर्व सभासदांना आवाहन केले. शेवटच्या टप्यात बोलतांना ठाणे विभागाचे चेअरमन श्री निलेश तिवरा'कर यांनी वर्षभरातील केलेल्या कामांचा व उपक्रमांचा आढावा घेतला व सर्वांचे मनापासून आभार मानले आणि सुरुची भोजनाने कार्यक्रमाची सांगता झाली.

शब्दांकन - श्री. अमेय शाम कार्णव, उपाध्यक्ष अत्रज्ञ कमिटी, इकॅम, महाराष्ट्र

भारताच्या हरित क्रांतीचे शिल्पकार

एम. एस. स्वामिनाथन

यांचे वयाच्या ९८ व्या वर्षी निधन.

दूरदर्शी शास्त्रज्ञ आणि भारताच्या हरित क्रांतीचे शिल्पकार डॉ मानकोंबू सांबशिवन स्वामिनाथन यांचे नुकतेच वृद्धापकाळाने निधन झाले. ते ९८ वर्षांचे होते. त्यांना पदमभूषण पुरस्काराने सन्मानित करण्यात आले होते. ते चेन्नई इथे राहत होते. त्यांच्या पश्चात त्यांची पत्नी मीना, कन्या सौम्या, मधुरा आणि नित्या असा परिवार आहे.

डॉ स्वामिनाथन यांचा जन्म तामिळनाडू राज्यात कुंभकोणम इथे ७ ऑगस्ट १९२५ रोजी झाला. तिकडेच त्यांचे बालपण व्यतीत झाले. आणि शालेय शिक्षण देखील तिथेच झाले. त्यांचे वडील एम के सदाशिवन हे डॉक्टर होते तर आई पार्वती थांगमल ही गृहिणी होती. स्वामिनाथन यांनी पदवीपर्यंतचे शिक्षण युनिव्हर्सिटी कॉलेज तिरुअनंतपुरम इथून पूर्ण केले तर पदव्युत्तर शिक्षण त्यांनी कोईम्बतूर शेतकी महाविद्यालय (तामिळनाडू शेतकी विद्यापीठ) इथून पूर्ण केले.

त्यांनी हरितक्रांतीच्या यशासाठी श्री सी सुब्रमनियन आणि श्री जगजीवनराम या कृषिमंत्र्यांसोबत काम केले होते. रासायनिक आणि जैविक तंत्रज्ञानाच्या साहाय्याने आखलेल्या हरितक्रांतीच्या कार्यक्रमामुळे गहू आणि तांदूळ यांच्या उत्पादनात लक्षणीय वाढ झाल्याचे दिसून आले.

श्री स्वामिनाथन हे २००७ ते २०१३ या काळात राज्यसभेचे सदस्य होते. या काळात त्यांनी राज्यसभेत भारतीय शेतीतील समस्यांबाबत भाष्य केले होते. १९८७ साली त्यांना जागतिक अन्न पुरस्काराने सन्मानित करण्यात आले होते. त्यानंतर त्यांनी मद्रास इथे एम एस स्वामिनाथन रिसर्च फाउंडेशनची स्थापना केली.

इकॅम जळगाव विभागाची वार्षिक सभा

इकॅम, जळगाव विभागाची वार्षिक सभा शुक्रवार ३० सप्टेंबर रोजी जळगावच्या हॉटेल कमल पॅरेडाईझ येथे खेळीमेळीच्या वातावरणात पार पडली. या सभेस इकॅम अध्यक्ष वामन भुरे, महासचिव देवांग ठाकुर व इतर पदाधिकारी आवर्जून उपस्थित होते. याशिवाय सर्व विभागांतून संचालक सभेस आले होते. जळगावच्या अनेक सदस्यांनी सभेत भाग घेतला. या सभेसाठी मान्यवर संस्थांनी स्टॉल लावले होते त्याचा फायदा सदस्यांनी घेतला. जळगाव विभागाचे अध्यक्ष बाबुभाई मेहदी व इतर सर्व पदाधिकारी यांनी उत्तम नियोजन करून सभा यशस्वी केली.

इकॅम नगर विभाग कार्यालयाचे भूमीपूजन

इलेक्ट्रिकल कॉन्ट्रॅक्टर असोसिएशन ऑफ महाराष्ट्र अहमदनगर रिजन मधे घट स्थापनेच्या पुण्यपावन मुहूर्तावर आपल्या जागे मध्ये ऑफिस कामाचे भूमीपूजन करण्यात आले आणि काम चालू करण्यात आले. यावेळी अध्यक्ष, सचिव आणि संचालक मंडळ अहमदनगर उपस्थित होते.

Seminar with Mohnot Instruments

Ecam Konkan Region team arranged a knowledge sharing seminar on various testing and measuring Instruments, which are required under NEC 2023, to carryout various tests and to comply with CEA Safety Regulations 2023, at Mohnot Instruments, Navi Mumbai between 1500 hrs and 2000 hrs on 14 October 2023. Shri Trapit Jain of Mohnot instruments gave vote of thanks to the contractors.

इकॅम पश्चिम महाराष्ट्र विभागाची वार्षिक सभा

इकॅम पश्चिम महाराष्ट्र विभागाची वार्षिक सभा ११ ऑक्टोबर रोजी खेळीमेळीच्या वातावरणात पार पडली. याप्रसंगी इकॅमचे विविध विभागातील संचालक उपस्थित होते. विभागाचे अध्यक्ष बाळासाहेब कदम व सर्व संचालकांनी उत्तम नियोजन करून सभा यशस्वी केली.

इकॅम अहमदनगर विभागाची रौप्य महोत्सवी वार्षिक सभा संपन्न

इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (ईकॅम) अहमदनगर विभागाची २५ वार्षिक सर्वसाधारण सभा शनिवार दि.०७/१०/२०२३ रोजी खेळीमेळीत पार पडली. अध्यक्षस्थानी इलेक्ट्रिकल कॉन्ट्रॅक्टर असोसिएशन महाराष्ट्र राज्याचे अध्यक्ष वामन भुरे साहेब होते. महासचिव देवांग ठाकूर, नाशिक विभागाचे अध्यक्ष सचिन फरताडे, जळगाव जिल्ह्याचे अध्यक्ष बाबुभाई मेहदी, महाराष्ट्र राज्य उपाध्यक्ष उमेश रेखे हे उपस्थित होते. रौप्य महोत्सव वर्ष निमित्त अध्यक्षांच्या हस्ते दीप प्रज्वलन करून कार्यक्रमास सुरुवात झाली. गुणवंत विद्यार्थ्यांचा सत्कार तसेच विविध सांस्कृतिक कार्यक्रम सादर केले. संघटनेचे माजी अध्यक्ष दिवंगत कै. श्री सुनील भुरे साहेब यांना श्रद्धांजली वाहण्यात आली. सुनील भुरे यांनी संघटनेसाठी आपले जीवन व्यतीत केले तसेच नगर विभागास स्वतंत्र दर्जा देण्यासाठी त्यांचा मोलाचा वाटा होता. अहमदनगर विभागाचे अध्यक्ष दत्ता झिंजुर्डे यांनी मान्यवरांचे पुष्पगुच्छ देऊन स्वागत केले. तसेच जिल्ह्यातील कॉन्ट्रॅक्टर्स यांचे प्रश्न अध्यक्षांपुढे मांडले तसेच कॉन्ट्रॅक्टर्स यांना नवीन टेंडर मिळण्यासाठी तसेच थकीत पेमेंट लवकरात लवकर मिळण्यासाठी संघटनेने पाठपुरावा करावा अशी अध्यक्षांना विनंती केली. कार्यक्रम यशस्वीतेसाठी अहमदनगर विभागाचे अध्यक्ष दत्ता झिंजुर्डे माजी अध्यक्ष मनोहर शहाणे उपाध्यक्ष अमोल कोळपकर सचिव अर्जुन ससे, सहसचिव श्रीकांत देवरे, खजिनदार बाळासाहेब दुकळे, संचालक जितेंद्र तोरणे, संचालक अमित गरुड, अनिल घाडगे, संदीप डोळस, संभाजी निमसे, सागर तलवार, प्रकाश देशपांडे, गोकुळ व्यवहारे, विवेक मुळे, सुबोध बोध, आशुतोष कोल्हे, राम गुंड, मनोज पारखे, कुताळ महाराज, किसन वराळ, विजय कोळगे, सोपान सासवडे, विकास तानवडे, संदीप निकते, आदींनी परिश्रम घेतले.

MSKVY २.० योजना काय आहे?

कृषी ग्राहकांना दिवसा वीज पुरवण्याच्या उद्देशाने महाराष्ट्र सरकारने दिनांक १४.०६.२०१७ आणि १७.०३. २०१८ च्या शासन निर्णयाद्वारे 'मुख्यमंत्री सौर कृषी वाहिनी योजना (MSKVY)' सुरु केली होती. कृषी वाहिनी सौर-उर्जीकरणाचे प्रचंड फायदे लक्षात घेता, महाराष्ट्र शासनाने विविध हितधारकांशी सविस्तर चर्चा केल्यानंतर ह्या योजनेची अंमलबजावणी जलद गतीने करण्यासाठी सदर योजनेची पुनर्रचना ही 'मुख्यमंत्री सौर कृषी वाहिनी योजना २.० (MSKVY २.०)' म्हणून केली. 'मुख्यमंत्री सौर कृषी वाहिनी योजना २.०'च्या अंतर्गत वर्ष २०२५ पर्यंत ३०% कृषी वाहिन्यांचे सौर-उर्जीकरण करण्याचे उद्दिष्ट हे 'मिशन २०२५' म्हणून निश्चित केले आहे. ह्या योजनेमध्ये ०.५ मेगावॅट ते २५ मेगावॅट क्षमतेचे विकेंद्रित सौर प्रकल्प जास्त कृषी भार असलेल्या वितरण उपकेंद्रापासून ५- १० किमी परिघात स्थापित केले जातील. ह्या योजनेमध्ये एकूण ७,००० मेगावॉट क्षमतेचे विकेंद्रीय सौर प्रकल्प स्थापित करण्याचे उद्दिष्ट्य ठेवण्यात आले आहे.

विकेंद्रित सौर ऊर्जा प्रकल्प हे महावितरण कंपनीच्या ३३/११ केव्ही उपकेंद्रांशी थेट जोडले जाणार असल्यामुळे पारेषण प्रणालीची गरज भासणार नाही आणि वितरण हानीमध्ये सुद्धा बचत होईल. उपकेंद्राजवळील सौर प्रकल्पामुळे शेतकऱ्यांना त्यांच्या नापीक जमिनी ह्या सौर ऊर्जा प्रकल्पांसाठी भाडेतत्वावर देऊन चांगले उत्पन्न मिळवण्याची संधी सुद्धा मिळणार आहे.

शेतकरी, जमीन मालक, सहकारी संस्था, कॉर्पोरेट (राष्ट्रीय आणि आंतरराष्ट्रीय दोन्ही), सार्वजनिक उपक्रम (राज्य आणि केंद्रीय स्तर दोन्ही) सहभागासाठी पात्र असतील. प्रकल्प गटावरील बोलीसाठी पात्रता आवश्यक तांत्रिक आणि आर्थिक निकष प्रकल्प गटाच्या मेगावॉट आकाराशी जोडलेले असेल. इच्छुक विकासकाने भारतात या पूर्वी समान क्षमतेचे विकेंद्रीय सौर प्रकल्प कार्यान्वित केले असले पाहिजेत. २ ते २५ मेगावॅट क्षमतेचा किमान एक जमिनीवरील सौर प्रकल्प कार्यान्वित करणे आवश्यक आहे. आर्थिक निकष हे सुद्धा प्रकल्प समूहाच्या मेगावॅट आकाराशी संबंधित निव्वळ मूल्य आणि क्रेडिट पात्रता यावर जोडलेले असतील.

तपशीलवार निकष हे भविष्यात प्रसिद्ध होणाऱ्या स्पर्धा निविदेमध्ये सुद्धा समाविष्ट असणार आहेत व ह्या संकेतस्थळावर उपलब्ध करून देण्यात येतील.

Rajasthan's New Renewable Energy Policy Targets 65 GW Solar Capacity by FY30

The new renewable energy policy will be in effect for four years from the date of notification

Rajasthan has unveiled its Renewable Energy Policy 2023, aiming to establish 90 GW renewable energy projects by the financial year (FY) 2029-30. Solar projects will constitute 65 GW, wind and wind-solar hybrid 15 GW, hydropower, pumped storage projects, and battery energy storage system (BESS) projects 10 GW.

The state has also announced that renewable energy projects supplying power to entities other than DISCOMS will be charged with facilitation charges or will be mandated to supply 7% of the power to DISCOMs at no cost. The payments must be made at a rate of 50,000 (~$600.52)/hectare per year for projects commissioned on or after the policy's commencement.

The policy will be in effect for four years.

The policy aims to promote innovative technologies and approaches for the simultaneous generation of wind and solar power, as well as the adoption of emerging technologies such as storage systems, including pumped storage projects and BESS.

Rajasthan Renewable Energy Corporation (RREC) has been designated as the nodal agency for registering, approving, and implementing renewable energy projects for four years.

Renewable Energy Facilitation Charges

Renewable energy facilitation charges will be collected into a fund, which will be utilized per the plan approved by the state-level steering committee.

In cases where a renewable power project sells power to entities other than the DISCOMs, the power producer must pay for the solar component of the project. These payments of 50,000 (~$600.52)/hectare per year will continue throughout the project's lifespan.

Developers can either make these facilitation charge payments or choose to supply 7% of the power generated to DISCOMs at no cost. This can be achieved by installing additional capacity to meet this requirement.

There will be no requirement to pay facilitation charges for solar projects commissioned on or after this policy's commencement date for the sale of power to DISCOMS either directly or through any other trader. Also, power generators will not be required to pay any facilitation charges for captive power projects.

Utility-Scale Projects

The state will promote the setting up of solar power projects for the sale of power to the distribution companies (DISCOMS) of Rajasthan on the tariff discovered through a competitive bidding process:

Governement launches standards and labelling programme

The central government has launched a standards and labelling programme for solar panels.

The star labelling scheme prepared by the Bureau of Energy Efficiency for photovoltaic modules is from January 1, 2024 till December 31, 2025. For this period, there shall be no labelling fee as well. The programme aims to reduce carbon dioxide emissions by 30 million tonnes per annum by 2030. While the introduction of performance standards will enhance customer awareness on cost and energy savings associated with solar panels. Meanwhile, the programme will also contributes to the government's target of enhancing the share of renewable energy and reducing emission intensity of GDP by 45 per cent by 2030.

SECI achieves significant milestone by securing PSAs for 50 GW power capacity

The Solar Energy Corporation of India Limited (SECI) has surpassed a 50 GW in cumulative capacity of agreements signed under power sale agreements (PSAs).

The latest quantum of PSAs signed stands at 50,292.64 MW, where SECI is the trader as an intermediary procurer. Notable agreements include a 690 MW wind power PSA with Uttar Pradesh Power Corporation Limited, 500 MW solar power PSAs in interstate transmission system solar Tranche VIII with Tamil Nadu Generation and Distribution Corporation Limited, and a 700 MW solar power power usage agreement with Gujarat Urja Vikas Nigam Limited under the central public sector undertaking scheme.

MoP extends dispute avoidance mechanism to cover all power sector projects

The Ministry of Power (MoP) has extended its dispute avoidance mechanism to include all power sectors projects, moving beyond hydroelectric power (HEPs) projects.

In September 2021, the ministry proposed a model contract provision using an independent engineer for resolving disputes in the construction contracts of central public sector enterprises involved in HEPs projects. This approach had proven successful in the hydro sector by mitigating time and cost overruns.

To apply this mechanism more broadly, the ministry has now extended it to all power sector projects under its jurisdiction. The standard procedures and payment terms for independent engineers will remain unchanged. The ministry plans to designate a panel of independent engineers with expertise in thermal and transmission sectors.

TPREL signs 12.5 MW PDA with Supreme Petrochem

Tata Power Renewable Energy Limited (TPREL) has entered into a power delivery agreement (PDA) with Supreme Petrochem Limited for a 12.5 MW group captive project.

The project will be executed through a special purpose vehicle known as TP Saturn Limited and is situated in Achegaon, Maharashtra. This facility is expected to generate approximately 27.5 million units of renewable power each year.

Supreme Creation: A Beacon of Safety Signages

Supreme Creation stands out as a company committed to safety and innovation. They understand that in an unpredictable world, investing in safe signage and photoluminescent lighting is not just a choice but a necessity. Let's take a closer look at how they excel in this domain:

Cutting-Edge Technology:

Supreme Creation is at the forefront of adopting cutting-edge technology in signage and lighting. They recognize the power of innovation in enhancing safety and have integrated state-of-the-art photoluminescent materials into their products.

Custom Solutions:

Every building and facility has unique requirements when it comes to safety signage. Supreme Creation excels in providing customized solutions that meet the specific needs of their clients. From digital signage to smart systems, they tailor their offerings to ensure optimal safety.

Compliance and Standards:

Supreme Creation understands the importance of compliance with safety standards and regulations. Their products not only meet but often exceed these standards, ensuring that clients can trust in the quality and effectiveness of their signage and lighting solutions.

Community Impact:

Supreme Creation is not just a business; it's a contributor to community safety. By providing top-notch safety solutions, they make a positive impact on the lives of individuals and the safety of entire communities.

Investing in Safety: An Investment in Peace of Mind

In a world where uncertainty is a constant companion, investing in safety measures such as effective signage and photoluminescent lighting is an investment in peace of mind. It's a proactive step toward ensuring the well-being of occupants, employees, and visitors in any building or facility. When disaster strikes, those responsible for safety can rest assured that they have done everything possible to guide people to safety.

Safe signage and emergency lighting may not always be in the spotlight, but they play a vital role in ensuring safety and saving lives during emergencies. Their evolution from static signs to dynamic, glowing guides is a testament to human ingenuity and our commitment to safeguarding one another.

Supreme Creation, with its dedication to innovation, quality, and compliance, stands as a beacon of safety in the modern world. Their products and solutions exemplify the potential of technology to enhance emergency preparedness and response.

As we navigate an unpredictable future, let us remember that safety is not an option but a responsibility. By embracing the latest advancements in safe signage and photoluminescent lighting, we illuminate the path to a safer, more secure world for all

10 Energy Management Certifications (With Their Importance)

Energy management is becoming one of the most critical focus areas in almost all business sectors. Reducing energy consumption can save money while also helping to protect the environment. To stay employable in the industry, it is essential for energy managers to demonstrate their technical knowledge in the field to convey to employing organisations of their suitability for the role. Learning and getting relevant energy certifications is one method for accomplishing this.

In this article, we discuss what an energy management certification is, explain its importance, list useful certifications you can obtain and provide tips you can use when pursuing an energy management certification.

Please note that none of the companies, institutions or organisations mentioned in this article are associated with Indeed.

What Are Energy Management Certifications?

Energy management certifications are methodical qualifications that enable professionals to improve the energy performance of a business. Its emphasis continues to grow as there is more focus on sustainability and optimisation. Systematic approaches to energy usage and performance are frequently based on a combination of project management best practices, energy monitoring, energy awareness and a policy that governs an organisation's approach. As a result, reducing energy consumption can save the expenses of an organisation while also helping to protect the environment.

Why Is Getting An Energy Management Certification Important?

Energy management is critical in understanding the facility's energy consumption pattern, identifying energy conservation opportunities throughout the system and transforming the energy consumption, energy usage and energy savings patterns. Employers may seek professional certifications besides a relevant degree and experience when hiring their next energy manager or consultant to ensure technical proficiency. Getting an official certification can highlight your expertise and give you an advantage in a competitive industry.

Certified energy managers transform energy-intensive industries into more energy-responsible industries. These managers can achieve the desired result by bringing world-class knowledge and best-in-class practices to any industry, organisation or management, paving the way for more dynamic energy optimisation required for sustainable future practices.

10 Energy Management Certifications

Here are some energy management certifications you can pursue:

1. Certified Energy Manager

A Certified Energy Manager (CEM) course imparts the technical requisites that can help improve the energy efficiency of a facility, building or industrial plant. CEMs are frequently team leaders who help develop and implement an organisation's energy management strategies. The CEM analyses the most economical energy-saving options and is a systems

integrator for electrical, mechanical, process and building infrastructure. The programme may help participants gain the technical skills and competencies required to manage and monitor energy consumption within their organisations.

2. Business Energy Professional

Certified Business Energy Professionals understand how vital energy decisions affect an organisation's energy-consuming systems, employee productivity, financial profitability and the bottom line. A business energy professional certification helps people who work in business and marketing, energy management, utility account management and customer service to advance their professional skills. It may also help identify individuals with adequate knowledge of business and energy management-related principles and practices and the laws governing and affecting energy professionals by completing an examination and meeting prescribed performance and conduct standards.

3. LEED Professional Credential

A Leadership in Energy and Environmental Design certification denotes knowledge of modern sustainable design, construction and operation standards. An individual with a LEED professional credential is eligible to actively participate in the green building movement by designing, developing, operating and maintaining communities and buildings that use less energy and natural resources, produce less pollution and promote healthier environments for their residents and the surrounding area. In addition, by obtaining a LEED certification, you can demonstrate to prospective employers and clients that you understand sustainable building practices and can help them improve their building technologies and health through LEED strategies.

4. Certified Sustainable Building Advisor

A Certified Sustainable Building Advisor is a professional with a strong interest in sustainable building planning and design. The Sustainable Building Advisor Institute offers a national certification training program for building professionals eager to apply sustainable strategies to the buildings they design, construct and maintain. The course focuses on practical, forward-thinking ways to design, construct and manage resource-efficient and cost-effective facilities.

5. Credential for Green Property Management

CREDENTIAL FOR GREEN PROPERTY MANAGEMENT

CGPM

Earning and maintaining a CGPM indicates you understand the association's ongoing and changing requirements, such as conservation methods and building restriction requirements. The certification teaches green energy management principles for both industries and home-building purposes. Credential holders may learn the most up-to-date techniques and technologies for implementing cost-effective green improvements in their properties.

6. Energy Management Professional Certification

The Energy Management Professional Certification (EMPC) familiarises you with energy management and computer technology tactics used by management professionals. In addition, the EMPC focuses on beneficial long-term plans for both facilities and homeowners while working within a limited budget. For example, you have experience with commissioning or professional engineering. In that

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case, the EMPC can assist you in managing budgets, finances, communications and projects on behalf of corporate entities and community leaders for energy conservation and maintenance.

7. Engineer In Training Certification

The Engineer in Training Certification (EIT) is a certification you can work toward at any stage of your career. The EIT certification is a state-mandated certification that aspiring engineers may obtain before becoming licenced professional engineers. Being a college senior or having graduated from a four-year engineering programme accredited by the Accreditation Board for Engineering and Technology is the primary eligibility requirement for applying to become an engineer in training. After passing the Fundamentals of Engineering (FE) exam, which is a multiple-choice exam covering the engineering programme coursework, applicants earn their EIT certification.

Certified Energy Procurement Professional

8. Certified Energy Procurement Professional

The Certified Energy Procurement Professional Training Program is useful for professionals who have demonstrated a high level of knowledge, experience, competence and ethical fitness in all aspects of purchasing, selling and marketing electricity and natural gas. By obtaining the CEP credential, you may establish your status as a qualified expert in this growing area of specialised expertise within the restructured energy marketplace. In addition, the certification teaches you about energy conservation and generation and helps you learn more about marketing and business in the industry.

9. Energy Management Certificate

This specialised Energy Management Certificate (EMC) programme at the University of Oregon teaches students about energy usage and conservation in industrial and residential buildings. The EMC also teaches students how to manage green energy resources and conservation efforts, including state-specific management laws and regulations. Aside from energy conservation values, the certificate teaches students lighting structure principles, basic architectural knowledge and auditing principles. If you pursue an EMC, you may gain various skills that may be useful in multiple industries, including energy, business, marketing and internal corporate maintenance.

50001 CP EnMS
50001 Certified Practitioner in Energy Management Systems

10. 50001 Certified Practitioners in Energy Management Systems

ISO 50001 specifies the requirements for organisations to develop, implement and improve energy management systems as an international standard. This enables organisations to adhere to a specific framework that enables them to improve their energy performance, efficiency, usage and consumption consistently. In addition, this framework defines the measurements, documents and reports that organisations can use to monitor the progress of their processes and employees towards the desired energy performance.

ISO 50001 aims to make more efficient and optimal use of energy. It requires organisations to develop new policies for energy efficiency, set goals and objectives to meet those policies and assess their impact to achieve continuous improvements in energy management. With an ISO 50001 certification, you may be able to increase energy efficiency, contribute to cost reduction, gain a competitive advantage, promote best energy practices, implement environmentally friendly practices, assist the organisation in energy management and facilitate the organisation's continuous improvement.

Tips For Earning An Energy Management Certification

Here are some tips you can use when pursuing an energy management certification:

- Concentrate on one certification at a time. Acquiring certifications takes time and effort. It may be helpful to focus on one at a time to help reduce stress.

K-LITE Introduces LED Landscape – Redefined

The Essence of lighting is one of the most important things in our lives.

At K-Lite we are passionate about creating a distinctive atmosphere that improves the quality of life in the cities and towns by exploring the many potential facets of lighting that supports the well being and safety of all.

Founded in 1977 in India, K-Lite has grown to be the leading manufacturer of outdoor luminaires and decorative poles. K-Lite's proven performance in the landscape segment is because of its ability to stylishly convey the identity of a space with a blend of efficiency and modularity to maximise the visual comfort that is best suited to each specific space.

Our Landscape range includes :

Linear Wall Washer, Up-Down Lighters, LED Strips/Neon flex, Promenade Lighting, Bollards, Under Water Lighting, Post top luminaires, Bulk Heads, Path finders, IP67 Linear Profiles, Polar lighting and newly added series of Facade Lighting.

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E-mail : info@klite.in
Website : www.klite.in

- Set objectives. Set study goals to keep a regular schedule and be prepared for exam day. Consider creating routines as you study so that you can incorporate your certification exam preparation into your daily life.
- Use available resources. Take advantage of the resources included in your enrolment fee. These resources can help you gain expertise in your field and earn a certification.
- Seek assistance. Seek professional assistance for your studies if you want to engage with the energy management exam content better. You can, for example, ask a mentor or a senior professional for useful tips or preparation techniques for exams.
- Use your reference materials. You may have access to your training materials for six months after earning your certification. As you begin your career and have questions, you can refer to them to find relevant solutions.

Tata Steel to enter into agreement with TPREL to source 379 MW of renewable power

Tata Steel Limited (TSL) has completed negotiations to enter into definitive agreements with Tata Power Renewable Energy Limited (TPREL) and TP Vardhaman Surya Limited (TPVSL) for the acquisition of 26 per cent stake in TPVSL, which is currently a fully owned subsidiary of TPREL.

As part of this agreement, TSL will also establish a long-term fixed-tariff contract with TPVSL, allowing them to procure 379 MW of captive renewable power. This initiative is expected to result in reduction of 50 million tonnes of carbon emissions over the contract period of 25-year. TPVSL, will develop around 966 MW solar-wind hybrid renewable power facility, positioning it as one of the largest industrial power projects in the group captive segment within the country. This arrangement will replace a part of the existing coal-based power generation at Tata Steel Jamshedpur and cater to the requirements at Tata Steel Kalinganagar and the Electric Arc Furnace project at Ludhiana, Punjab.

L&T secures EPC order from WBPDCL to install FGD system

Larsen & Toubro's (L&T) Power businsess has secured an engineering, procurement, and construction (EPC) order from West Bengal Power Development Corporation Limited (WBPDCL) for the installation of wet flue gas desulphurisation (FGD) systems at the Sagardighi thermal power plant in West Bengal.

The key project highlights include three FGD absorbers serving four thermal power units (2×300 MW, 2×500 MW), along with balance of plant systems for five units. This marks L&T's first FGD project for a state-owned power utility. With this order, L&T is set to install FGD projects for thermal power plants with a total capacity of over 19 GW, actively contributing to the government's initiative to cut sulphur dioxide emissions.

CCI approves acquisition of Lanco Amarkantak by PFC Projects, REC , SJVN and DVC

The Competition Commission of India (CCI) has approved the aquistion of 100 per cent shareholding of Lanco Amarkantak Power Limited by PFC Projects Limited (PPL), REC Limited, SJVN Limited and Damodar Valley Corporation (DVC).

Lanco Amarkantak Power, a special purpose vehicle of Lanco Infratech Limited is setting up the Amarkantak thermal power plant at Pathadi village, in Chhattisgarh in two phases. The first phase of the plant comprised of two 300 MW units which achieved commercial operation in April 2010. Phase II, comprising Unit III and Unit IV of 660 MW each, is being developed at an investment of Rs 108.15 billion.

Pestech secures contract worth RM21.17 million to supply smart metres in Malaysia

Pestech Sdn Bhd (PSB), a subsidiary of Pestech International Bhd, has secured an RM21.17 million contract from Tenaga Nasional Bhd (TNB) to supply and deliver smart metres in Malaysia.

This is in line with TNB's advanced metering infrastructure implementation. Under the two-year project, PSB will install 79,800 units of single-phase and 19,950 units of three-phase radio frequency smart metres across the country. The project will be executed in partnership with Pestech Energy Sdn Bhd. By 2026, TMB plans to install smart metres in 9.1 million households across Peninsular Malaysia. Under TNB's smart grid plans, the agency looks to introduce automated monitoring and control as well as the integration of renewable generation.

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