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PROFESSIONAL DEVELOPMENT &
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नमस्कार

....मित्र मैत्रिणींनो, व्यवसाय करताना, केवळ त्याकडे उत्पन्न मिळवणे आणि ग्राहकांच्या गरजा पूर्ण करणे यावर लक्ष केंद्रित करणे महत्त्वाचे आहे. परंतु त्या बरोबर आपण ज्या समाजात काम करतो त्या समाजाप्रती असलेल्या आपल्या जबाबदाऱ्या ओळखणे देखील महत्त्वाचे आहे. एक व्यावसायिक उद्योजक या नात्याने, आपला व्यवसाय ज्या समुदायांमध्ये भरभराटीला येतो त्या समाजाचे आम्ही काही तरी देणे लागतो हे आपण लक्षात घेतले पाहिजे. व्यवसाय करित असताना व्यवसायात आपल्या बरोबर काम करणारे हात यांना प्रोत्साहन देणे हे आमच्या प्राथमिक कर्तव्यांपैकी एक आहे. कर्मचाऱ्यांना योग्य वागणूक देणे, त्यांच्यासाठी सुरक्षित आणि निरोगी कामाचे वातावरण प्रदान करणे आवश्यक आहे. असे केल्याने, आम्ही केवळ आमच्या कर्मचाऱ्यांच्या कल्याणासाठी योगदान देत नाही तर उद्योगातील इतरांसाठी एक सकारात्मक उदाहरण देखील ठरत असतो. याव्यतिरिक्त व्यवसाय करित असताना पर्यावरणास अनुकूल पद्धतींची अंमलबजावणी केल्यास आपल्या व्यवसायांवर आणि पर्यावरणावर होणारे नकारात्मक परिणाम कमी करण्यासाठी महत्त्वपूर्ण ठरत असते. सामाजिक जबाबदारी उपक्रमांमध्ये सक्रियपणे सहभागी होऊन आपण

समाजासाठी सकारात्मक योगदान!

समाजाला काहीतरी लोकसेवेतून परत देण्याचा प्रयत्न केला पाहिजे. यामध्ये संघटना, स्थानिक धर्मादाय संस्थांना सामाजिक कामासाठी सहकार्य देणे, समाज उपयोगी कार्यक्रम प्रायोजित करणे, शैक्षणिक कार्यक्रमांना निधी देणे, आर्थिक दृष्ट्या मागासलेला विद्यार्थ्यांना मदत करणे यांचा समावेश असणे आवश्यक आहे. आपली ही समाजासाठी केलेली गुंतवणूक ही लोकांचे जीवन मान सुधारण्यात मोलाचा वाटा उचलत असते. यातून आपल्या बाबत आपले ग्राहक, कर्मचारी आणि व्यवसाया संबंधित सर्वांच्या मध्ये सद्भावना आणि विश्वास देखील प्रस्थापित होतो. यामध्ये विचारात घेण्यासारखी आणखी एक बाब म्हणजे आपल्या संस्थांमध्ये विविधता आणि समावेश वाढवणे. विविध पार्श्वभूमी, संस्कृती, असणाऱ्या कर्मचाऱ्यांना नियुक्त करण्यासाठी आणि त्यांना प्रोत्साहन देण्यासाठी सक्रियपणे प्रयत्न केले पाहिजेत. किंवा याकरिता वेळोवेळी मार्गदर्शक शिबिराचे आयोजन केले पाहिजे हे केवळ कामाच्या ठिकाणी मूल्य वाढवत नाही तर अधिक प्रातिनिधिक आणि न्याय्य समाजाची निर्मिती करण्यासाठी उपयुक्त ठरते.

याव्यतिरिक्त, आपण आपला व्यवसाय करित असताना उत्पादने सुरक्षित, विश्वासाहर् आणि उच्च गुणवत्तेची आहेत याची खात्री करणे सर्वात महत्त्वाचे आहे. आपले उत्पादन आणि जाहिरात करून व्यवसाय वाढविण्याचे प्रयत्न करणे आवश्यक असते मात्र या प्रयत्नांमध्ये पारदर्शक आणि प्रामाणिक असले पाहिजे, ग्राहकांना हानी पोहोचवू शकणारे कोणतेही भ्रामक दावे किंवा फसव्या पद्धती टाळल्या पाहिजेत. ज्या आपण सर्रास पहात असतो.

आपल्या व्यवसाय समुदायाचे संघटनेचे प्रभावशाली सदस्य या नात्याने, आपण सकारात्मक सामाजिक बदलांची जाणीव करण्यासाठी संघटनेच्या प्लॅटफॉर्मचा वापर केला पाहिजे. नवनवीन परवानाधारक व्यावसायिक बंधूना आपल्या संघटनेचे सभासद होण्यासाठी प्रयत्न करणे आवश्यक आहे. महत्त्वाच्या कारणांना समर्थन देणे, सामाजिक समस्यांबद्दल जागरूकता वाढवणे किंवा शाश्वतता, समानता यासारख्या क्षेत्रात बदल घडवून आणण्यासाठी आमची शक्ती आणि संसाधने वापरणे यांचा समावेश असू शकतो.

शेवटी, व्यवसाय चालवताना, समाजासाठी सकारात्मक योगदान देण्याचे आपले कर्तव्य आहे. नैतिक पद्धतींचा अवलंब करून, कॉर्पोरेट सामाजिक जबाबदारी उपक्रमांमध्ये गुंतून, विविधता आणि समावेशास प्रोत्साहन देऊन, उत्पादनाची गुणवत्ता आणि सुरक्षितता सुनिश्चित करून आणि सामाजिक बदलांसाठी समर्थन करण्यासाठी आमच्या प्रभावाचा वापर करून, आम्ही आमच्या जबाबदाऱ्या पूर्ण करू शकतो आणि अधिक मजबूत, अधिक टिकाऊ समाज तयार करू शकतो.

सर्व सभासद बंधू भगिनींना मी नम्रपणे आवाहन करतो की या येणाऱ्या वर्षात आपली सदस्य संख्या ही आपण दुपटीने वाढविण्यासाठी प्रयत्न करूया. प्रत्येक सभासदाने एक नवीन सभासद ECAM कुटुंबात समाविष्ट केल्यास आपण हे उद्दिष्ट सहजपणे साध्य करू शकतो. नवीन सभासद फॉर्म आपल्या www.ecam.org या वेबसाईट वरती उपलब्ध आहे. याचा उपयोग निश्चितपणे सभासद संख्या वाढविण्यासाठी होणार आहे. चला तर मग एक नवीन सदस्य आपल्या ECAM परिवारात सामील करूयात.

आपला

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नमस्कार मित्रांनो,

इकॅम ठाणे विभागातर्फे शुक्रवार, दिनांक २१ जुलै २०२३ रोजी मानपाडा, ठाणे येथे मे. ब्ल्यु स्टार लिमिटेड यांनी आपल्या उत्पादनांची माहिती सभासदांना व्हावी यासाठी सेमिनार आयोजित केला होता. सदर सेमिनारमध्ये मे.ब्ल्यु स्टार लिमिटेड यांनी आपल्या उत्पादनांची माहिती सभासदांना दिली. सदर सेमिनारला इकॅम ठाणे विभागाचे सभासदांनी उपस्थिती दर्शविली.

इकॅम कोकण विभागाची वार्षिक सभा शनिवार, दिनांक १२ ऑगस्ट २०२३ रोजी महेश लंच होम आणि बॅंकेट हॉल, सिबिडी बेलापुर येथे संपन्न झाली. सदर वार्षिक सभेस इकॅमचे अध्यक्ष श्री. वामन भुरे, सहसचिव श्री. योगेश पवार, संचालक श्री. विनोद कोठावदे, इकॅमच्या ठाणे विभागाचे अध्यक्ष श्री. निलेश तिवरामकर तसेच ठाणे विभागाच्या पदाधिकाऱ्यांनी तसेच कोकण विभागाच्या सभासदांनी उपस्थिती दर्शविली. या प्रसंगी मे. उषा श्रीराम कंपनीने आपल्या उत्पादनांची माहिती देणारे सेमिनार आयोजित केले होते. सदर सभा खेळीमेळीच्या वातावरणात पार पडली. कोकण



इकॅम संघटनेची वाटचाल!

विभागाच्या वतीने एक छोटेखानी प्रदर्शन आयोजित करण्यात आले होते.

सर्व सभासदांना कळविण्यात येत आहे की आपल्या संघटनेचा शताब्दी महोत्सव नजीक येत आहे. ECAMEX 24 प्रदर्शन NEC, गोरगाव मुंबई येथे आयोजित करण्यात येणाऱ्या सदर प्रदर्शनास यशस्वी करण्यास आपला हातभार लागणे गरजेचे आहे. आपणास मी आवाहन करित आहे की आपल्या ओळखीच्या स्टॉलधारकांशी संपर्क साधून या प्रदर्शनामध्ये स्टॉल बुकींग करण्यासाठी प्रयत्न करावेत. तसेच आपणास याबाबत काही महत्वाच्या सुचना द्यायच्या असतील तरी आपण त्या इकॅम मुख्य कार्यालयाला कळवाव्यात.

सर्व सभासदांना कळविण्यात येत आहे की आपल्या संघटनेचा शताब्दी महोत्सवानिमित्त दैनंदिनी तसेच दिनदर्शिका काढण्यात येत आहे. सदर दैनंदिनी तसेच दिनदर्शिका प्रकल्प यशस्वी करण्यास आपण आपल्या डिलरशी तसेच उत्पादन कंपन्यांशी संपर्क साधून त्यांनी या दैनंदिनीमध्ये जाहिरात देण्यासाठी प्रयत्न करावेत.

आपल्या आय.ई.सी.टी. मासिकामध्ये आपण आपल्या व्यवसायासंदर्भात विविध लेख छापत असतो. मी आपणास आवाहन करतो की ज्या सभासदांना आपले लेख किंवा उपक्रमांसंबंधी काही माहिती आपल्या आय.ई.सी.टी. मासिकामध्ये छापण्यास द्यायची असेल तर ती इकॅम कार्यालयाकडे पाठवावी. आपणास नम्र विनंती आहे की आपणास जर आय.ई.सी.टी. मासिक मिळत नसेल तर आपण त्वरीत इकॅम मुख्य कार्यालयाशी ईमेलद्वारे संपर्क साधावा.

इकॅमची सभासद संख्या जास्तीत जास्त वाढवण्यासाठी इकॅमकडून जोरात प्रयत्न चालले आहेत. आपली सभासदसंख्या जास्तीत जास्त वाढावी यासाठी आपले मौल्यवान सहकार्य आम्हाला अपेक्षित आहे. आपणास आवाहन करतो की आपल्या आजुबाजुला असलेल्या नविन विद्युत ठेकेदारांशी संपर्क साधून त्यांना इकॅमची माहिती देऊन सदर ठेकेदारांना आपल्या इकॅम परिवारात सामिल करण्यासाठी प्रयत्न करावेत..

आपणास जर आपल्या व्यवसायासंदर्भात काही अडचणी येत असतील तर आपण त्या इकॅम मुख्यालयाला लेखी कळवाव्यात जेणे कारण संघटनेतर्फे त्या सोडविण्याच्याबाबतीत प्रयत्न केला जाईल. इकॅमच्या सभासदांना येणाऱ्या अडचणी सोडवण्यासाठी आम्ही कायम प्रयत्नशील राहु असे आम्ही आपणास आश्वासन देतो.

आपला

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देवाज्ञा झाली ईश्वर त्यांच्या आत्म्यास शांती देवो
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अत्यंत धक्कादायक ! श्री सुनील भुरे साहेब म्हणजे उत्साहाचा जिवंत झराच होते. झहोतेड्ड म्हणणे फार जड जात आहे. इकॅमचे अध्यक्ष या नात्याने त्यांनी अत्यंत संस्मरणीय कार्य केले. आपले पायाचे दुखणे विसरून ते प्रत्येक कार्यक्रमाला येत असत आणि आपल्या निर्णयक्षमतेचा वापर करून समस्यांचे समाधान करीत असत. त्यांच्या घरी जाण्याचाही दोनवेळा योग आला. घरातील अत्यंत शुद्ध धार्मिक वातावरण पाहून व आतिथ्यशील वहिनी व मुले यांच्या प्रेमळ वागण्याने मनापासून आनंद होत असे. माझे जावई सागर काकतकर याने त्यांचे पायाचे दुखणे बरे केले म्हणून सर्व कुटुंबिय आनंदी झाले होते. इकॅमच्या शताब्दीबद्दल मी अनेकवेळा त्यांच्याशी चर्चा केली होती. याबद्दल त्यांच्या मनात अनेक संकल्पना होत्या. सुदैवाने त्या संकल्पना साकार होत आहेत. पण सुनील साहेबांच्या अकाली एक्झिट मुळे ते या महा सोहळ्यात नसणार ही मोठी दुःखाची गोष्ट आहे. इकॅमच्या जुन्या नव्या सर्व सदस्यांशी जिव्हाळ्याचे संबंध ठेऊन संघटनेला पुढे नेण्याचा आदर्श त्यांनी घालून दिला आहे. आपण सर्वांनी हे काम जोमाने करून त्यांना श्रद्धांजली देऊया. भुरे कुटुंबावर हा फार मोठा आघात आहे. हा धक्का व हे दुःख सहन करण्याची शक्ती परमेश्वराने त्यांना द्यावी, ही प्रार्थना! भुरे साहेबांना आदरपूर्वक भावपूर्ण श्रद्धांजली. परमेश्वर त्यांना सदगती देवो! ओम शांती!!

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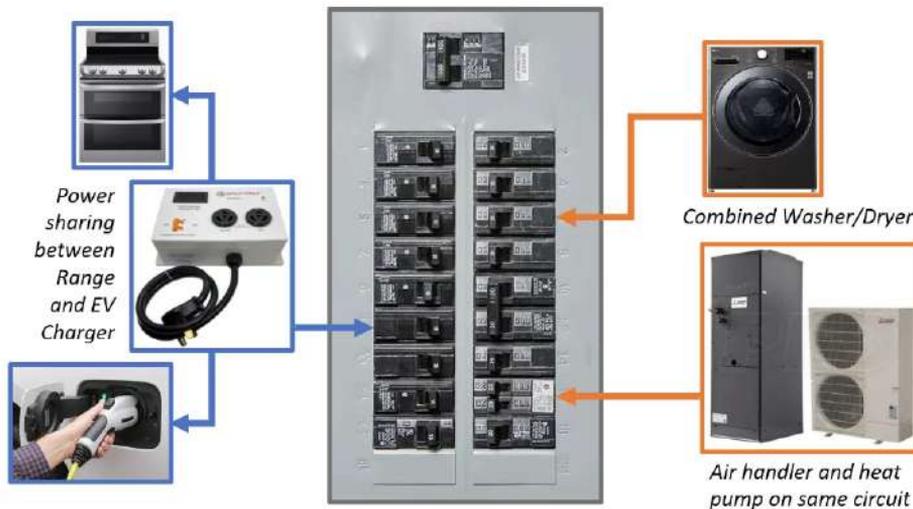
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SMART ELECTRICAL PANELS

-Ajit N. Kulkarni
Electrical Consultant



Preface

Electrical panels are essential part of electrical distribution and same are deployed everywhere wherever electricity is present. Now coming era will be of Smart Panels. In a world of technological advancement electrical distribution is no exception of making advancement in energy management and control. The traditional electrical panels were limited to only power distribution, part communication and control. Now there will be addition of cutting-edge technology, real-time data insights, extraordinary user control and many other benefits for user. Let us explore in this article advantages of smart panels with advanced components, which will help in future energy management. This will benefit us in energy conservation, high efficiency, and sustainability, which is final goal.

Present Panels

Present electrical panels typically refer to a distribution panels or load center or boards which are used for distribution of electricity within establishment or a building or structure. These panels receive electrical power from the transformer or supply company's main line or from upstream panel

and then distributes that power to various circuits throughout the load centers. Important and key components used in which are-

Switchgears- Which could have limited communication capabilities or standalone type. Generally main switchgears are used of higher end technical specification type but outgoings normal standalone type. So, details information from load centers is not available. In case of some cases same is modified through electro-mechanical type switches or meters. But complexity of wiring increases with either limitation of data or likely failures. Fault relays or releases used are digital or could be microprocessor based. But more advanced with latest technology based self-corrected are not in use. Still in some cases thermal magnetic relays which have less accuracy are in use. Automatic control or resetting of breaker is used in few cases only. But not widely used because of absence of auto fault analysis or absence of advanced energy management system.

Busbars- These are essential component in panel. But presently temperature rise status or healthiness monitoring is not happening. As such once design and installed, same are not monitored in real time basis.



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Metering- Presently digital meters with or without communications are available and are widely used. But at times power readings, energy readings are separately used as and when required. Due to which all data is not available. Also, real time readings of entire load center should be available with management software is missing. Hence improved version of real time data, graphical presentation, energy management software etc. are essential which are missing presently. So also trending load patterns, events, alarms are important for fine usage is not available now a days.

Communications- Presently wherever IBMS is provided connectivity from switchgear and meters are given. But there are lot of converters, cables etc. are required to be used for fetching data at central location. But same can be avoided with all connected components with localized switch and integration of data makes installation easier which is presently not in use.

Enclosure- Some treat enclosure as a steel box but it is not so. In the latest standard many design features, type testing process etc. are given. As such present panels which are conforming to old standard becomes obsolete.

What is advancement in panels

Advancement means improvement, progress, or developments made in a particular field or technology. In the context of electrical panels, advancement means it covers new technologies, features, or designs that improve the functionality, efficiency, safety, and convenience of electrical distribution systems. Smart electrical panels or intelligent panels, are advancement in electrical panel technology. These panels incorporate digital and communication technologies to provide enhanced monitoring, control, and management of electricity distribution. Some key features of smart panels are-

Remote Monitoring- Smart panels allow users to monitor the electrical system remotely through a smartphone app or a web interface. This is especially useful for facility managers, maintenance staff, clients, even homeowners who want to keep an eye on their electrical consumption and system status even when they are not on at site.

Energy Management- Smart panels can provide real-time data on energy consumption for individual

circuits or load centers or appliances. This information helps users identify energy-intensive areas and make informed decisions to optimize energy usage and reduce costs. It can recognize trends and load pattern. Accordingly, management layer will inform users regarding decision to be taken. With this performance will increase and energy cost will reduce.

Load Balancing - Panels can be deigned, so that it will automatically distribute load across different circuits. So, if one circuit is overloaded then part load will on other circuit. With this, overloads issues can be avoided and it can optimize energy distribution. This can help for avoiding overloading and tripping of circuit breakers. This will improve the overall efficiency of the electrical system and proper load distribution.

Remote Control- With smart panels users can remotely control individual circuits or loads. For example, one might remotely turn off non-essential load to conserve or control the energy usage. It can act as demand controller. At times such decisions are taken at higher management levels and hence for them it is easy to control the electrical bus or distribution. Also, optimum utilization of equipments such as generators, transformers can be done and they will run at higher efficiency.

Alerts and Notifications- Smart panels can send alerts and notifications in case of component failures, electrical faults, abnormal energy consumption, or circuit overloads. This early warning can help to prevent potential hazards, breakdowns and allows for quick response.

Data Analytics- Over time, smart panels can gather data on energy consumption patterns, helping users make informed decisions about energy management and system improvements. Also, with artificial intelligence and algorithm it can make decision to correct the distribution as per load pattern.

Enhanced Safety- Smart panels can have advanced safety features built in. So that in case of emergencies or hazards it can remotely put off power going to load. So also, if there is likely failure of component then it can give alert. With alerts or notification one can act for corrective action.

Integration with renewable energy sources- Smart panels can integrate with solar panels, wind turbines, and other renewable energy sources. This will enable users to monitor and optimize the usage of energy generated from renewable sources.

Future Ready- Smart panels are designed to be



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upgradable, allowing for the integration of new technologies and new features as and when become available. As such extension is possible and need not be scrapped.

There are many features and capabilities which can be added as need arises by designers, manufacturers. In broader sense it can integrate with digital technology for increased convenience, efficiency, control, monitor and safety.

Components in smart panel

Some common components one can find in a smart panel-

Switchgears, Busbars and housing- These are essential components in a smart panel and without which distribution cannot happen. But they will have enhanced features like load measurement and monitoring, local remote operation, early fault detection, internal component end of life or breakdown, maintenance scheduling, digital compatibility, connection to mobile-computers-cloud, and the ability to communicate with other smart devices. Relays which are advanced in nature fitted on it gives protection to load fully. Panel will be designed, type tested as per latest standard and hence cubicle, busbars, supports, compartments, chambers etc. are standardize without leaving loop holes for failures.

Thermal management- Internal thermal management of busbars, switchgears and panels will be done through temperature sensors. These will have capability to connect digitally to software. So, in case of temperature rise action can be taken and fault creation or damage will not happen. This gives full protection to load center and hence to electrical network.

Communication Interface- Smart panels have communication interfaces that allow them to connect to local networks or the internet. This could be through Ethernet, Wi-Fi, Zigbee, or other communication protocols.

Processors- These are the intelligences of the smart panel. They process data from various sensors and communication modules, manage control functions, analyze the data, check load patterns, verify alerts, and execute commands.

Energy Monitoring Sensors and metering- Smart panels includes sensors that monitor energy consumption on individual load. These sensors

provide data for power consumption, energy analysis, optimization and quality. Current and voltage sensors measure the current voltage levels and contribute to load monitoring, power quality analysis, and safety functions.

Communication Modules- These modules enable the smart panel to communicate with other smart devices, a central controller, or the cloud. They facilitate remote monitoring, control, and data sharing.

Software- It comprises data storage for logging energy usage data, system events, and other relevant information. It has remote control interfaces which can be controlled remotely through dedicated mobile apps or web interfaces. There will be load management which can dynamically manage the load distribution across circuits to prevent overloads and optimize energy usage. It will have alert and notification system which will generate alerts and notifications via email, text messages, or push notifications to inform users about abnormal conditions, faults, or circuit overloads. It can integrate with other automation system and can coordinated control of various smart devices. Essentially it will have security features which includes authentication protocols, encryption, remote receipt of software updates and firewall capabilities to protect the smart panel from unauthorized access.

Exact features and components can vary widely among different type of smart panel models, and advancements in technology continue to expand the capabilities of these panels. Always refer to the manufacturer's documentation for specific information about a particular smart panel model.

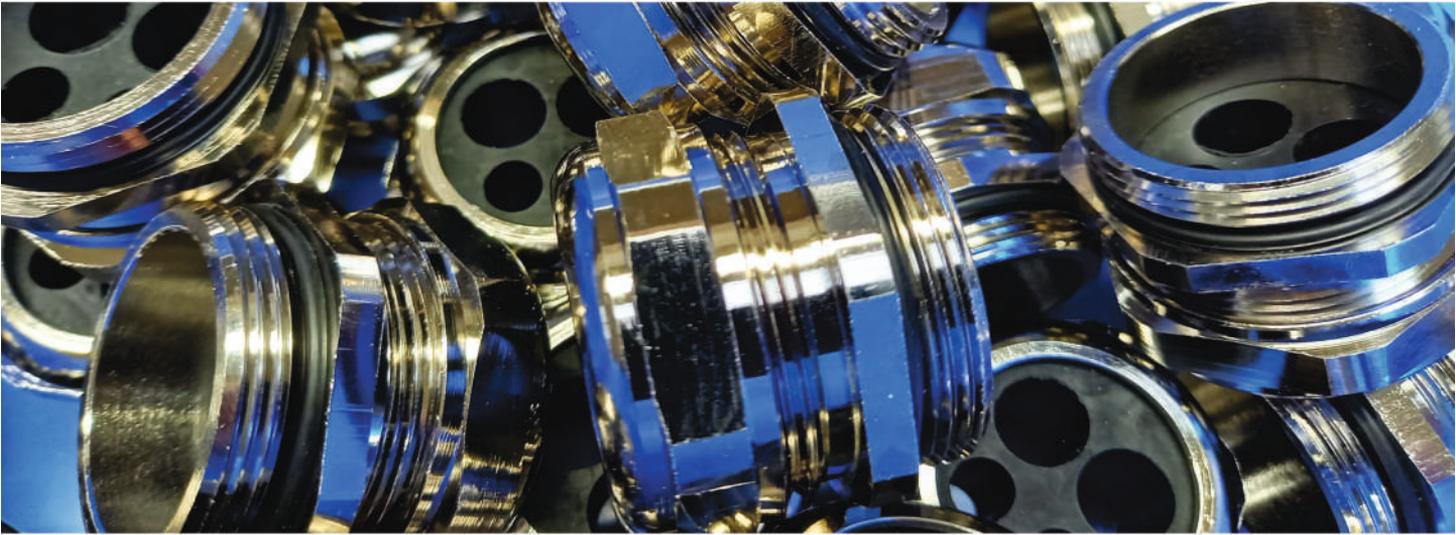
Advantage of smart panels

Smart electrical panels offer several advantages over traditional electrical panels due to their advanced technology and enhanced features such as-

- Accuracy in measurement
- Local remote monitoring and control through mobile app or web interface.
- Efficient load management
- Increase in energy efficiency
- Early fault detection
- Maintenance scheduling
- Data analytics
- Enhanced safety

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Overall, smart panels can offer comprehensive solution for efficient energy management, enhanced control, and improved safety within electrical system.

Where smart panels can be used

Smart panels can be used at various places where electrical distribution for large load is applicable such as –

- Power grids
- Industries
- Data centers
- Hospitals
- Commercial complex
- Hotels
- Educational buildings
- Public buildings
- Resorts
- Microgrids

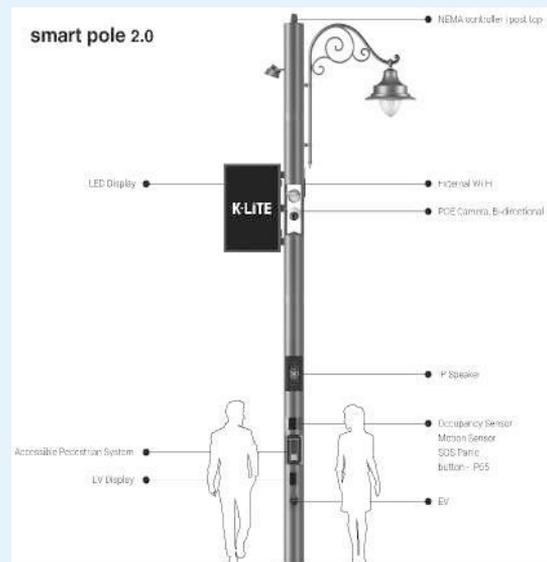
Conclusion

In the developing scenario of electrical distribution, innovation is required to provide clients cutting-edge solutions and not standard housing for switchgears. Hence while dealing with electrical panel item, smart panels are solution where technology meets efficiency, control, and sustainability. By integrating smart panels into projects there is opportunity to empower clients with safety, real time insights, control, increased energy efficiency, reduced downtime, high level of safety and optimized energy management. As such through incorporating these intelligent solutions, it is not only providing solution but more sustainable tomorrow.



Smart Pole 2.0 by K-lite

The concept of smart cities came into being as a consequential development to internet of things (IoT), digital connectivity, global warming and the compelling necessities for energy saving. More than 50 % of the world's population lives in cities, A city environment, with a closely knit street light network became a natural choice for a smart city concept, hosting sensor networks and wireless communications for traffic control, smart parking, noise and air quality monitoring, incident detection, and more. Smart city lights are not stand alone system. They have to be integrated with other systems under what is known as Internet of Things (IoT). Hence the chosen smart city light poles should be able to accommodate a full range of lighting controls compatible to remote control and integral with suitable sensors for the respective application.



In fact, the smart city pole is going to be a service platform for various services for Network redundancy, application areas such as mobile connectivity (WLAN), traffic control, security camera (CCTV), information transfer, public announcement with loud speakers, smart parking, environmental monitoring and even the electric charger for electric cars etc.,

K-Lite proudly announces the introduction of smart city poles (Intelligent poles) with its modular solution, to cater to the above needs in the upcoming smart cities with the salient features as below :

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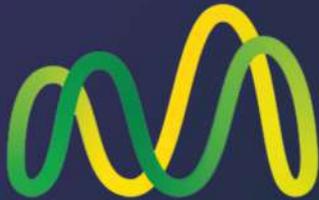
One main pole with one to five modules, Smart column is a multitude of combinations. With flexible modules, the smart column is very handy and flexible for add-on. Choose your combination, add the module, connect them together and the smart column is ready to meet your requirement.



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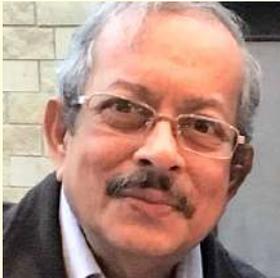
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A Different Hydel Power



(Deserting engineering after a year in a factory, Amitabha Banerjee did an MBA in the US and returned to India. Choosing work-to-live over live-to-work, he joined banking and worked for various banks in India and the Middle East. Post-retirement, he returned to his hometown Kolkata and is now spending his golden years travelling the world, playing bridge, befriending Netflix & Prime Video and writing in his wife's travel blog.)

Hydrel power is simple: build a dam across a river, store the water in a reservoir, run it through a turbine-generator and produce electricity.

How about another hydrel?

No river, no dam, pump-cum-generator, and two connected reservoirs – one up, the other down. Feed in 100 units of electricity, get back 70.

'How stupid! What a waste!' you may be thinking.

Wasteful – maybe.

But stupid? No.

Saboor...

Since this is about electricity, let us take a quick look at the power scene in India.

India has an installed generation capacity of 416GW (gigawatts), consisting mainly of thermal - 237GW (57%), hydroelectric - 47GW (11%), and renewables (solar & wind) – 110GW (26%).

These power plants feed electricity into the national grid which distributes it throughout the country.

The government, and indeed all of us, would like to see the power generation pattern shift from thermal to renewables for two reasons:

- Renewables eliminate carbon emissions, without hydrel's environmental issues arising from big dams, and huge reservoirs.

- Renewables are cheaper. Solar or wind costs around Rs2.30 per unit, while thermal costs almost Rs4 a unit.

There is a problem, though.

Renewables don't provide a steady supply of power. The sun does not shine at night and, though

the wind blows 24x7, it is not always steady.

Power from renewables does not match power demand. Around noon, solar power generation is at its peak but demand is low; after dusk, electricity demand shoots up, but there is no solar power.

To an extent, this imbalance can be managed by tweaking the output of the other plants in the system. Thermal plants can run on high output in the evening and reduced output around mid-day.

But, if the proportion of renewables in the total mix of power plants exceeds about 25%, problems start arising. A lot of backup thermal power capacity is needed to meet evening demand and it remains partly idle in the daytime. Thermal plants become less efficient and more costly if they are run like this.

India has crossed 25%, power demand is rising and we would like to have a higher ratio of 'clean' renewables to 'dirty' thermal.

To make this workable, we need a device that will store electricity when it is not needed and release it when required.

A battery?

Nah...

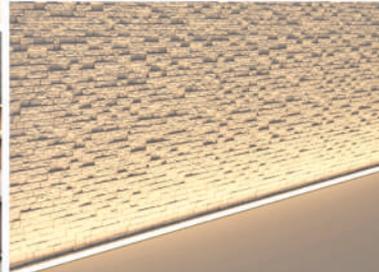
It will take a monster-sized battery, or a forest of batteries, to store electricity in GW quantities. Besides,



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batteries require expensive material such as lithium which has its own environmental baggage.

Enter the 'wasteful and stupid' other hydel—pumped storage hydro (PSH)—which is actually a gigantic battery.

This picture shows how it works.

When renewables are running at full blast on a sunny and windy day, the turbine in the middle works as a pump, taking in surplus electricity to pump water from the lower (right-hand) reservoir and lift it to the upper (left-hand) reservoir. Later, when renewable output slackens off while power demand rises, water flows down the pipe through the turbine, which becomes a generator, producing electricity.

Simple, right?

The water simply goes up the hill and comes down again, like the 10,000 men of the grand old duke of York.

Of course, some energy (20%-30%) is lost in the process because of friction in the pipes and losses in the machinery.

Nevertheless, even after this wastage, the power generated by the system carries a direct cost of around Rs3.3 per unit (2.3/0.7). The fixed cost component will vary greatly over different locations, but let us add 33% more towards fixed cost recovery. This brings the total cost to Rs4.4 a unit, comparable to the cost of thermal power.

There are other pluses, too;

- Low environmental impact because:

a.) no big dam, only an embankment or a small dam;

b.) no huge reservoir, only two small ones—measured in hectares, not sqkm (square km); and

c.) no water loss, except through evaporation.

- Quick response (within one minute) to increase/ decrease in power demand.

- Long life, negligible running cost and low maintenance cost.

The key benefit—having a sizeable PSH capacity permits the usage of a higher proportion of renewables, because the PSH balances out the fluctuations in renewable energy production.

A study of global PSH potential, published by Australian National University, states that there are enough potential sites worldwide for building 100

times the PSH storage capacity needed to power the entire world on renewable energy alone.

In India, there are lots of potential sites—north-east region, Himalayan foothills and the Western *ghats* – to build many times the PSH storage that we will need for 100% renewable power.

Is this all a dream? And, what are we doing about it?

No, PSH is not a dream. It has been around since 1909. Right now, there is over 110GW of PSH storage capacity worldwide. China leads with 46GW, followed by Japan (22GW) and US (19GW).

Where is India? A poor 5th place with 4.8GW.

But we are moving forward.

Some 109 PSH sites, with a total potential of 119GW, have been identified for development. The target for 2030 is 39 sites totaling 47GW of PSH, in tandem with the target of 500GW for renewables.

Work has started on several projects, such as the one being built at Pinnapuram in Andhra Pradesh, a combo system with 1GW solar + 550MW wind + 1.2GW PSH, total cost being US\$3bn (billion). This site will eventually expand to 3GW solar, 2GW wind and 2.4GW PSH.

Mind—there are hurdles to be crossed, too.

One such is the power transmission system. Ours is a huge country, stretching about 3,000km north to south and east to west. If solar power is generated in the Thar desert, stored in PSH sites in the north-east, and used to power Maharashtra in the evening, lots of electricity will have to be moved over very large distances.

The regional transmission capacity of the Indian power grid is about 112GW. Renewable power plants and PSH sites cannot just be built wherever it is most convenient, without paying heed to the distance factor. The power grid has to balance supply and demand country-wide, over different seasons and varying weather, and move electricity all over the country, in an environment of ever-increasing demand... whew —that is some job!

Obviously, we have a long way to go, but there are enablers. We have the technology, engineering capability, available sites, money and above all—the will to do it. The eventual goal of 'Net Zero' carbon emissions is reachable.

Unfortunately, though, not in my lifetime!



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Electrical safety hacks this monsoon

Bhushan Sawhney

Executive President and Chief Business Officer

Polycab India Ltd.

As the monsoon season sets in, bringing much-needed relief from the scorching summers, it's essential to shift our attention to a crucial aspect of our home's electrical safety. While we eagerly anticipate the soothing rains and a cooler climate, it's important to recognize that the monsoon season poses potential threats to the safety of our electrical fittings and needs. The heavy downpours, increased humidity, and occasional thunderstorms can create hazardous conditions that may result in electrical accidents. Being proactive and taking necessary precautions to safeguard ourselves and our homes against such risks is vital for ensuring the well-being of our loved ones.

Here are some electrical safety hacks that can help mitigate the dangers associated with the monsoon season and keep us protected from potential electrical hazards. By implementing these measures, we can enjoy the monsoon season without compromising on our safety.

Regular Maintenance and Inspection: Regular maintenance and inspection of your electrical system is paramount to ensure the safety of your home. It is imperative to adopt a proactive approach and address any potential issues that may arise. Over time, insulation on wires and cables deteriorates, which increases the risk of potential electrical hazards such as short circuits and fires. Therefore, identifying and rectifying such problems can significantly reduce the risks associated with the monsoon season. By promptly replacing old or damaged electrical products, you enhance the overall safety of the house.

Quality wires: Investing in quality and eco-friendly wires with higher insulation resistance is a proactive step towards managing the risk of electrical fires. High-quality branded wires has higher heat resistance, these wires significantly reduce the likelihood of short circuits. By prioritizing the use of

quality wires in your electrical installations, you enhance the overall safety of your home, minimizing the risk of electrical fires and ensuring the well-being of your household.

Ensuring proper Earthing: Ensuring proper earthing is another vital aspect of electrical safety. Earthing provides a safe pathway for electrical currents to flow into the ground, preventing the risk of electric shocks. It helps to stabilize electrical systems, protect appliances, and minimize the potential of fires caused by electrical faults. By having a professional inspect and maintain proper earthing for your electrical system, you can significantly reduce the chances of electrical accidents and ensure the safety of your household. Remember, proper earthing is not just an option but an essential measure to protect lives and property during the monsoon season and beyond.

Use of waterproof extension cords: Using waterproof extension cords is a crucial safety measure, especially during the monsoon season when the risk of water-related electrical accidents is high. These cords are designed to withstand moisture and prevent water from seeping into the wiring, reducing the chances of short circuits and electric shocks. Whether you're setting up outdoor lighting, powering garden tools, or using electrical appliances in areas prone to water exposure, make sure to use waterproof extension cords to mitigate the potential hazards.

Avoid Overloading Circuits: A fundamental practice in ensuring electrical safety, particularly during the monsoon season, is to avoid overloading circuits. Overloading circuits can lead to overheating, damaged wiring, and an increased risk of electrical accidents. To prevent such hazards, it is important to distribute electrical loads evenly across different circuits and refrain from connecting multiple high-wattage appliances to a single power outlet.

Contd. Page on 54



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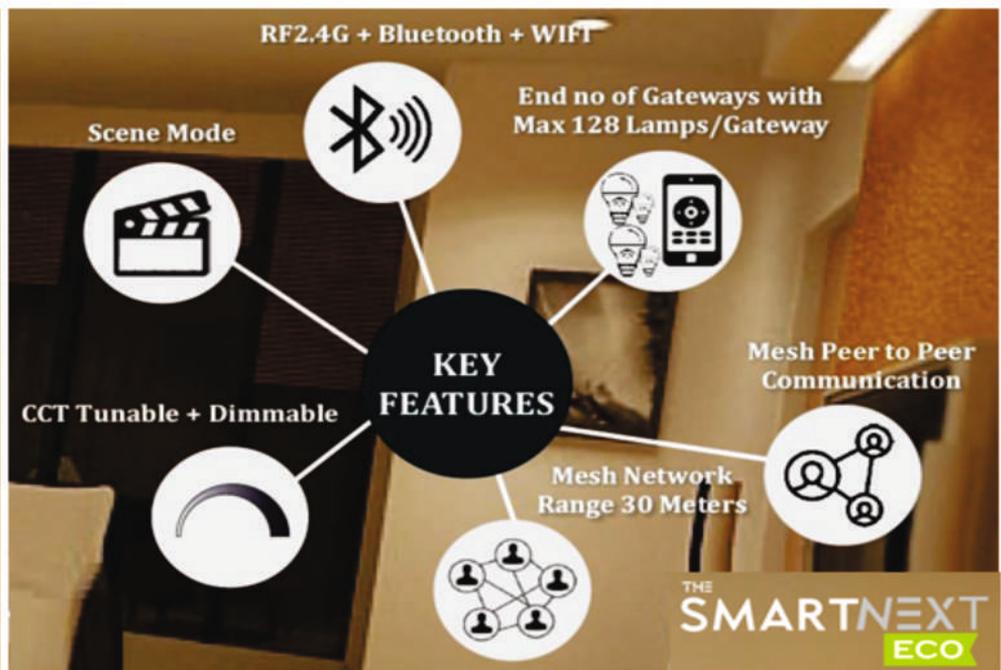
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- Grouping
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- Sunrise / Sunset
- Remote access
- Gateway
- Home management (Can create end number of rooms)
- Voice Assistant



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Grouping

Grouping luminaires in the Smart Life app is very easy. After grouping, all the SmartNext Eco luminaires in the group can be controlled all together.

Scenes

Different lighting situations for different occasions can be created. It is possible to control multiple SmartNext Eco luminaires with one tap to create the perfect ambience for different occasions and needs. One SmartNext Eco luminaire can be used in several scenes.

Schedule

With the schedule functionality scenes and automation can be turned on and off based on a convenient time and day to fit users' needs.

Sunrise & sunset

SmartNext Eco lights are able to calculate the local sunrise and sunset times, provided that the network's time zone and location are set. When the location is requested the application is temporarily

using GPS to retrieve the current location of the mobile device.

Remote Access

A network (Home) needs a single Gateway (LFTG80GATEWAY) device. Mobile phones having access privileges to the same network can connect via the cloud to the network when not on the same physical location of the network.

Gateway

- Gateway can be accessible with Wi-Fi for operating luminaires.
- Through this gateway you can operate from around the world.

Voice Assistant

Compatible with Alexa and Google Assistance

Home management

The lighting control solution is based on a Home management structure. All luminaires are paired to Home management. End number of lights can be paired to one Home management.

Home management Sharing

As a consideration of the system setup, the home sharing is a decision that is to be made at the beginning of the process, to ensure a straightforward commissioning phase and the best possible home security.

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दिनांक-०९ ऑगस्ट २०२३ रोजी सायं. ६.३० वा. इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र. इकॅम. पुणे विभागाने कार्यालयाच्या ट्रेनिंग सेंटर मध्ये 'जीएसटी इलेक्ट्रिकल वर्क्स कॉन्ट्रॅक्टर्स' या विषयावर तांत्रिक चर्चासत्राचे आयोजन करण्यात आले. या चर्चासत्रास वक्ते म्हणून श्री. मंदार बोरसे (GA Adviorr & Trainer) हे लाभले होते.

विद्युत क्षेत्राशी निगडित असणारा वस्तू आणि सर्व्हिस यावर कोणत्या प्रकारे जीएसटी भरावा? Immovable Poreyrt आणि Movable Poreyrt यातील फरक काय हे वक्ते बोरसे यांनी समजावून सांगताना विविध मुद्यांवर चर्चा केली.

आपण ग्राहकाकडून अॅडव्हान्स घेतो त्यावरही जीएसटी भरावा लागतो असे सांगत असताना त्यांनी अनेक दाखले दिले. IGT, CGT, आणि SGST म्हणजे काय? याची सविस्तर माहिती दिली. Conrtuction rervicer, Inrtallation rervicer आणि Electrical Inrtallation rervicer या सर्व्हिसेस वर जीएसटी कसा भरावा याची उदाहरणासह माहिती दिली.

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पाहिजे, आपणही सप्लायला पेमेंट दिले पाहिजे आणि ग्राहकाकडून आपल्याला पेमेंट आले असले पाहिजे तरच क्रेडिट मिळू शकेल. Drection 17(5)-Blocked creditr (negative lirt of inut taw credit) अशा अनेक जीएसटी कायद्यांची सभासदांना माहिती दिली. जीएसटी संदर्भात सभासदांसमोर काही प्रश्न, शंका होत्या ते विचारले असता बोरसेनी साध्या, सोप्या शब्दात खेळीमेळीत प्रश्नाची उत्तर आणि शंकाच निरसन केले. तसेच ट्रेनिंग सेंटरची जागा मर्यादित जागा असल्याने अनेक सभासद येता आले नाही परंतु परत जीएसटी या विषयावर तांत्रिक चर्चासत्र घेण्यात येईल तेव्हा मला मार्गदर्शन करण्यास नक्कीच आवडेल मी परत येईल अशी श्री मंदार बोरसे यांनी ग्वाही देऊन सर्वांचे आभार मानले.

या तांत्रिक चर्चासत्रास वक्ते मिळवण्यास इकॅम पुणे विभागाचे संचालक श्री. समीर देवधर यांचे मोलाचे सहकार्य लाभले. या चर्चासत्रास इकॅम पुणे विभागाचे अध्यक्ष श्री.अमरनाथ पाटील, सचिव श्री.अनिल महाजन, सहसचिव श्री.संजय कान्हेकर, उपाध्यक्ष श्री. मारुती माळी, खजिनदार श्री. प्रकाश जाधव, इकॅम पुणे विभागाचे माजी अध्यक्ष श्री. सुनील गायकवाड, महासमितीचे माजी महासचिव श्री.मिलिंद नाईक, महासमितीचे संचालक श्री. नरेंद्र शिंदेकर, श्री. अजय सातपुते पुणे विभागाचे संचालक श्री. अमोल बालगुडे, श्री.बालाजी काशीकर, श्री.काळुराम जानकर, श्री अनिल जाधव आणि बहुसंख्येने सभासद उपस्थित होते.

पुणे विभागाचे अध्यक्ष श्री.अमरनाथ पाटील यांनी आपले मनोगत व्यक्त करून येणाऱ्या पुढील काळात सभासदांसाठी अनेक विषयांवर तांत्रिक चर्चासत्र आयोजित करण्यात येतील.त्यासाठी चांगले वक्ते आणण्यास समीर सर सहकार्य करतीलच एवढे बोलून सर्व उपस्थितांचे आभार मानले. या कार्यक्रमाचे सूत्रसंचालन सचिव श्री. अनिल महाजन यांनी केले.





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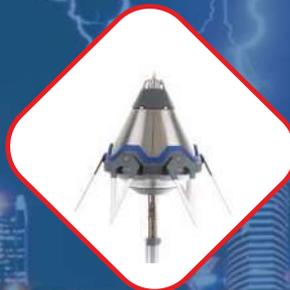
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HOW PHOTOLUMINESCENT SIGNS SAVE PRECIOUS LIVES IN PANIC SITUATIONS

In the face of floods and water logging across the country, a hugely underrated risk is the risk of fires due to short circuits and exposed wires. Even in big cities like Delhi, many gully mohallas and interiors we see aged, worn out and neglected wiring that often hang visible in the skyline. These are ticking time bombs and the harm they can cause has been seen so many times before. The question to therefore ask is – “Are your premises adequately protected?”

During a flood, water can enter a building and come into contact with electrical outlets, wiring, and other electrical components. This contact can cause damage to the outlets, including corrosion and short-circuiting. Sometimes, the water can cause the electrical outlets to spark, leading to a fire. There are many poor families, the young and the old and ailing living in conditions unfit for animals. In monsoons, they are the hub of disease and in summers they are the lowest hanging fruit for a hungry fire. But even the affluent and high-rise dwellers are not safe from accidental fires and history has ample proof. These are questions that cannot have straight answers, so successive governments and administrative bodies push them under the carpet and life goes on.



Fig. 1 Assembly Point Sign

An indispensable lifesaving tool of safe exigency or safe escape in such critical situations that is accepted and used globally is what is known as the Photoluminescent Sign. A sign or indicator can provide vital information or show the closest exit but how can it do so in a pitch dark condition? The photoluminescent sign does exactly that.



Fig. 1 Fire Exit Sign

In India, photoluminescent signages, along with emergency lights, are an essential feature of safe exit mandated by the NBC in all kinds of enclosed spaces. In a fire and smoke or blackout situation people trapped in enclosed spaces often face certain death if

they cannot come out within a very small window of time. While emergency lights restore visibility to some extent, these signs show the nearest and quickest way out. People unfamiliar with surroundings too get to see the best and quickest exit route and thus get saved in time.

You must have noticed the sign “**IN CASE OF FIRE DO NOT USE THE LIFT, USE THE STAIRS**” which is actually a warning and a clear instruction to people trapped in a fire or smoke situation in any building. It is a lifesaver and reminds people in panic who may rush for the lift. NBC has clearly mandated that the slogan must be pasted near each lift on each floor in photoluminescent sign form

Another safety tool is LLL, i.e., Low Location Lighting used to depict photoluminescent signages that are installed in lower levels for various purposes and which 'glow' in the dark.

LLL's can be in the form of tape strips with text or images at intermissions to serve a specific purpose, surfaces painted with photoluminescent paint to mark out borders or act as pathfinders, in the form of staircase nosings combining non-slip with paint to make staircases visible and also non-skid at the edges.

Tapes stuck along the floor either with a picture or lettering or both allowing people to find their direction easily in the dark. Photoluminescent Tapes act as directional indicators or 'Path finders' (see Fig 4)

In darkness or poor light, the staircase all along, will stand illuminated along the length and breadth to outline the steps and allow easy movement in zero visibility. In case of crowds or multiple travellers, the casing will protect them from slipping or skidding while running down or up. Not many buildings unfortunately, use this product, mostly because they may not know about it. But it can be an invaluable asset and indeed, a lifesaver, once installed.



Fig. 3 Do not use the lift

Another safety tool is LLL, i.e., Low Location Lighting used to depict photoluminescent signages that are installed in lower levels for various purposes and which 'glow' in the dark.

LLL's can be in the form of tape strips with text or images at intermissions to serve a specific purpose, surfaces painted with photoluminescent paint to mark out borders or act as pathfinders, in the form of staircase nosings combining non-slip with paint to make staircases visible and also non-skid at the edges.



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Fig. 4 Autoglo Tapes

Tapes stuck along the floor either with a picture or lettering or both allowing people to find their direction easily in the dark. Photoluminescent Tapes act as directional indicators or 'Path finders' (see Fig 4)

In darkness or poor light, the staircase all along, will stand illuminated along the length and breadth to outline the steps and allow easy movement in zero visibility. In case of crowds or multiple travellers, the casing will protect them from slipping or skidding while running down or up. Not many buildings unfortunately, use this product, mostly because they

Fig. 5 Antiskid stairnosing

may not know about it. But it can be an invaluable asset and indeed, a lifesaver, once installed.



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धुळे-नंदुरबार इकॅम : वार्षिक दिन बदल



या वर्षीचा वार्षिक दिन सोहळा एक उल्लेखनीय कार्यक्रम बनवल्याबद्दल मी प्रत्येकाचे AIREA चे अभिनंदन! मनापासून कौतुक करू इच्छितो. तुमचा उत्साह, समर्पण आणि परिश्रम यामुळे हा दिवस खरोखरच संस्मरणीय बनला आहे आणि तुमच्या प्रयत्नांबद्दल मी कृतज्ञ आहे.

MNRE (नवीन आणि नवीकरणीय ऊर्जा मंत्रालय), MEDA (महाराष्ट्र ऊर्जा विकास संस्था), आणि MSEDCL (महाराष्ट्र राज्य विद्युत वितरण कंपनी लिमिटेड)च्या आदरणीय मान्यवरांचे आम्ही मनःपूर्वक आभार मानतो. त्यांच्या अतुलनीय पाठिंब्याबद्दल आणि भविष्यातील ध्येय निश्चित करण्यासाठी दूरदृष्टी बद्दल. संपूर्ण भारतातील सौर प्रकल्पांसाठी 500 GW. हे महत्वाकांक्षी लक्ष्य केवळ शाश्वत ऊर्जेसाठी दृढ वचनबद्धता दर्शवत नाही तर हिरवेगार आणि स्वच्छ भविष्याचा मार्गही मोकळा करते. तुमच्या मार्गदर्शनाने आणि प्रोत्साहनाने, संपूर्ण भारतातील सौर ईपीसी कंपन्यांना सूर्याच्या शक्तीचा उपयोग करण्यासाठी आणि देशाच्या ऊर्जा सुरक्षा आणि पर्यावरण संवर्धनासाठी योगदान देण्याच्या दिशेने धाडसी पाऊले उचलण्याची प्रेरणा मिळते.

आमचे ध्येय MNRE (नवीन आणि नवीकरणीय ऊर्जा मंत्रालय), MEDA (महाराष्ट्र ऊर्जा विकास संस्था), आणि MSEDCL (महाराष्ट्र राज्य विद्युत वितरण कंपनी लिमिटेड) च्या पुढाकारांशी जवळून संरेखित आहे आणि आम्ही या महत्वाकांक्षी लक्ष्यासाठी मनापासून योगदान देण्यास कटिबद्ध आहोत. नाविन्यपूर्ण तंत्रज्ञान, व्यापक जागरूकता मोहिमा आणि धोरणात्मक भागीदारीद्वारे, संपूर्ण देशात सौर रूफटॉप प्रणालीचा अवलंब करण्यास गती देण्याचे आमचे ध्येय आहे.

आम्ही आमच्या सामायिक दृष्टीकडे



कूच करत असताना, आम्ही अशा भविष्याची कल्पना करतो जिथे प्रत्येक इमारत, मग ती घर, शाळा किंवा व्यावसायिक प्रतिष्ठान, वीज जनरेटर बनते. ऊर्जा उत्पादनासाठी हा विकेंद्रित दृष्टीकोन केवळ ऊर्जा सुरक्षा वाढवणार नाही तर आर्थिक वाढ आणि रोजगार निर्मितीसाठी नवीन संधी देखील निर्माण करेल.

हा महत्त्वाचा टप्पा साजरा करत असताना, आपण सर्वांनी सौरऊर्जा क्षेत्राला प्रगतीपथावर नेण्यासाठी आणि उज्वल, अधिक शाश्वत उद्या साध्य करण्यासाठी हातात हात घालून काम करण्याच्या आमच्या वचनबद्धतेची पुष्टी करू या. एकत्रितपणे, आपण येणाऱ्या पिढ्यांसाठी एक हिरवेगार

आणि निरोगी ग्रह तयार करू शकतो. पुन्हा एकदा, AIREA टीमचे अभिनंदन, आणि MNRE, MEDA आणि MSEDCL यांचे दूरदर्शी नेतृत्व आणि भारतातील सौरऊर्जेचे भविष्य घडवण्यात मदत केल्याबद्दल त्यांचे मनःपूर्वक आभार

सौर प्रकल्पांसाठी भारत सरकारचे 500 GW चे भविष्यातील लक्ष्य आपल्या देशासाठी अधिक हिरवेगार, अधिक शाश्वत भविष्याच्या दिशेने एक महत्त्वाचे पाऊल आहे.

आपल्यापैकी प्रत्येकजण, AIREA चे सदस्य म्हणून, ही सौर क्रांती पुढे नेण्यात महत्त्वाची भूमिका बजावतो. धुळे जिल्ह्याच्या नूतनीकरणक्षम ऊर्जेच्या लँडस्केपवर कायमस्वरूपी प्रभाव टाकण्यासाठी आपण आपले ज्ञान, कौशल्य आणि सौर ऊर्जेची आवड एकत्र करू या. एकत्र काम करून आणि सर्वोत्कृष्ट पद्धती सामायिक करून, आम्ही आमचे सामूहिक प्रयत्न वाढवू शकतो आणि आमच्या प्रदेशात सौर प्रकल्पांच्या अवलंबनाला गती देऊ शकतो.

आम्ही प्रत्येक सदस्याला सौरऊर्जेचे फायदे आणि त्याचा आपल्या पर्यावरणावर आणि अर्थव्यवस्थेवर होणाऱ्या सकारात्मक परिणामांबद्दल जागरूकता पसरवण्यासाठी सक्रियपणे सहभागी होण्याचे आवाहन करतो. सौर प्रकल्पांची भरभराट होण्यासाठी अनुकूल वातावरण निर्माण करण्यासाठी स्थानिक अधिकारी, व्यवसाय आणि समुदायांसोबत सहयोग करा.

हा नूतनीकरणाचा आणि उत्साहाचा क्षण असू द्या. एकत्रितपणे, भारताच्या ऊर्जा संक्रमणामध्ये महत्त्वपूर्ण योगदान देण्याची आणि येणाऱ्या पिढ्यांसाठी शाश्वत आणि उज्वल भविष्य घडवण्याची ताकद आमच्यात आहे. जसजसे आपण पुढे जातो तसतसे आपण हे लक्षात ठेवूया की प्रत्येक प्रयत्न मोजला जातो आणि प्रत्येक सौर प्रकल्प आपल्याला 500 GW चे सामायिक उद्दिष्ट साध्य करण्याच्या एक पाऊल जवळ आणतो.



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ECAM, Konkan Region's 4th Annual Meeting



Electrical Contractors' Association of Maharashtra, ECAM, Konkan Region's 4th Annual Meeting was held at Mahesh Lunch Home and Banquet Hall, Plot No. 85, Sector -15, CBD Belapur, Navi Mumbai – 400614, on August 12, 2023, at 1700 hours, the meeting was presided over by Mr. Ulhas Vajre - Chairman, Mr. Vithal Jhaveri - Vice Chairman, Mr. Vasant Gadre -Secretary, Mr. Suresh Pote – Jt. Secretary, and Mr. Aniket Bhise – Treasurer and attended by the members of the ECAM Konkan Region.

The Occasion was graced by Mr. Waman Bhure, President ECAM, Mr. Yogesh Pawar – Jt. Secretary, ECAM, Mr. Nilesh Tivramkar – Chairman ECAM

धुळे जिल्हा सोलर असोसिएशन तर्फे WAREE कंपनीचा सेमिनार



दि. ४/०८/२०२३ रोजी हॉटेल गोल्डन लीफ येथे धुळे जिल्हा सोलर असोसिएशन तर्फे waree कंपनीचा सेमिनार आयोजित करण्यात आला होता. सदरचा सेमिनार आपले ईकॅमचे सभासद व धुळे जिल्हा सोलर असोसिएशनचे अध्यक्ष श्री. किशोर पोतदार यांनी आयोजित केला होता.

या कार्यक्रमाप्रसंगी त्यांनी आपले ईकॅम मुंबई संचालक श्री. रघुवीर पाटील व ईकॅम धुळे-नंदुरबार रिजनचे अध्यक्ष श्री. प्रविण बडगुजर यांचा सत्कार करून सन्मानित करण्यात आले.

अतिशय उत्तम असा कार्यक्रम आयोजित करण्यात आला होता.

Thane Region, Mr. Kothawale and other dignitaries.

After the meeting, Product cum knowledge sharing seminar was conducted by M/s. Usha Sriram, wherein information regarding their various electrical products was shared with the delegates.

ECAM Konkan Region Chairman, Mr. Ulhas Vajre, Briefed the ECAM members about the Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations 2023, and stressed the importance of implementing these regulations to minimize the electrical accidents.

The program was followed by dinner and cocktail

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दि.०८,०९ जुलै २०२३ रोजी महाराष्ट्र सोलर मॅन्युफॅक्चरिंग असोसिएशन (मास्मा) तर्फे 'सोलर एक्सपो २०२३' महालक्ष्मी लॉन्स, कर्वेनगर, पुणे. येथे आयोजित करण्यात आला होता.

या सोलर एक्सपो २०२३ मध्ये इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) पुणे विभागाचा स्टॉल होता, या स्टॉलचे उदघाटन शनिवार दिनांक ०८ जुलै २०२३ रोजी सकाळी. ११ वाजता महावितरणचे मुख्य अभियंता मा. श्री. राजेंद्र पवार साहेब, केंद्रीय अपारंपारिक ऊर्जा विभागाचे सहसचिव मा. श्री.दिनेश जगदाळे साहेब, महाऊर्जा अतिरिक्त महासंचालक मा. श्री.पंकज तगडपल्लेवार यांच्या हस्ते करण्यात आले.

याप्रसंगी इकॅम महासमितीचे अध्यक्ष मा. श्री.वामन भुरे साहेब,पुणे विभागाचे सचिव मा.श्री.अनिल महाजन साहेब, सहसचिव मा. श्री.संजय कान्हेकर, उपाध्यक्ष मा. श्री. मारुती माळी साहेब, तांत्रिक समितीचे अध्यक्ष मा. श्री.सुनील गायकवाड साहेब, महासमितीचे संचालक सर्वश्री.राजेन्द्र सिन्नरकर साहेब, नरेंद्र शिंदेकर साहेब, रवि शिवरेकर साहेब, अजय सातपुते साहेब, विनोद कोठावदे साहेब तसेच पुणे विभागाचे सर्वश्री अमोल बालगुडे, काळुराम जानकर, अनिल जाधव आणि संचालक मंडळ उपस्थित होते

या प्रदर्शनात स्टॉलला भेटी देणार्या नागरिकांना इकॅमकडून विद्युत सुरक्षेची पत्रक देण्यात आली, तसेच इकॅम ही संघटना भारत स्वातंत्र्य पुर्व काळात स्थापन होऊन शंभराव्या वर्षात पदार्पण करीत आहे,आणि संघटनेने शंभर वर्षात काय काय उपक्रम, सामाजिक कार्य, विद्युत सुरक्षेबाबत जनजागृती अभियान राबविण्यात आले या विषयी सांगतानाच *इकॅमेक्स २०२४ प्रदर्शना* बाबत माहिती देवून विद्युत उत्पादक कंपन्यांना ब्रोशर देण्यात आली.

या दोन दिवसांच्या प्रदर्शनात विद्युत परवान्या विषयी माहिती घेण्यासाठी ,तर नवीन परवानाधारक विद्युत ठेकेदार यांना

इकॅमचे सभासद होण्यासाठी माहिती हवी होती. आणि काही सामान्य नागरिकांना आपल्या घराचे नूतनीकरण करायचे होते त्यांना घरातील विद्युतीकरण करण्याकरिता शासन मान्यताप्राप्त परवानाधारकाच्या शोधात आले होते.तसेच विद्युत उत्पादक कंपन्यांचे संचालकही आपल्या इकॅम स्टॉलकडे आले होते या संचालकांना इकॅमेक्स २०२४ च्या प्रदर्शनाबाबत माहिती देवून त्यांना ब्रोशर देताना प्रदर्शनात सहभाग घेण्यास सांगितले.

आपल्या इकॅम स्टॉलला इकॅमचे सभासद ,विविध स्तरातील असंख्य लोक आणि विद्युत क्षेत्रातील विद्यार्थी भेट देत होते. त्यामुळे इकॅम संघटना सर्वदूर पोहोचली आहे हे लक्षात येते. याचा फायदा येणाऱ्या काळात संघटनेला होईल हे नक्की.

या मास्मा प्रदर्शनात इकॅम पुणे विभागाने सहभाग घेवून यशस्वी होण्याकरिता तांत्रिक समितीचे अध्यक्ष श्री.सुनील गायकवाड यांनी प्रयत्न केले त्यांना इकॅम पुणे विभागाचे अध्यक्ष श्री.अमरनाथ पाटील, सचिव. श्री. अनिल महाजन, सहसचिव श्री.संजय कान्हेकर, महासमितीचे संचालक श्री. राजेन्द्र सिन्नरकर तसेच संचालक मंडळाने मोलाचे सहकार्य केले.



मुख्यमंत्री सौर कृषी वाहिनी योजनेतर्गत पहिला सौर ऊर्जा प्रकल्प कोल्हापुरात कार्यान्वित



कार्यान्वित करण्यात महानिर्मितीला यश आले आहे. रात्री सिंचन करताना शेतकऱ्यांना अनेक अडचणींना तोंड द्यावे लागते. त्यामुळे शेतीसाठी दिवसा भरवशाचा वीज पुरवठा व्हावा यासाठी ही योजना राबवण्यात येत आहे.

या सौर ऊर्जा प्रकल्पामुळे कुंभोज आणि हिंणगाव या दोन गावातील सुमारे १५०० कृषी वीज ग्राहकांना सौर ऊर्जेचा लाभ होऊन, विशेषतः ५ एच.पी.चे सुमारे १०४० कृषी पंप उर्जित होणार आहेत. सुमारे ९ हेक्टर शासकीय पडीक जमिनीवर हा प्रकल्प उभारण्यासाठी १८ कोटी खर्च आला आहे. महानिर्मिती, मेसर्स ई.ई.एस.एल.(विकासक), मेसर्स टाटा (सब व्हेंडर) आहेत. हा प्रकल्प कार्यान्वित झाल्याने महानिर्मितीची एकूण सौर ऊर्जा स्थापित क्षमता ३७६.०२ मेगावाट इतकी झाली आहे. स्थानिक पातळीवर प्रत्यक्ष-अप्रत्यक्ष ४० व्यक्तींना रोजगार उपलब्ध झाला आहे. सौर ऊर्जेद्वारे वीज सुमारे ३.३० रुपये प्रती युनिट दराने महावितरण समवेत वीज खरेदी करार करण्यात आला आहे.



राज्य शासनाच्या महत्वाकांक्षी मुख्यमंत्री सौर कृषी वाहिनी योजनेअंतर्गत ४.४ मेगावाटचा कुंभोज (ता. हातकणंगले) येथील पहिला सौर ऊर्जा प्रकल्प शनिवारी कार्यान्वित करण्यात महानिर्मितीला यश आले आहे.

कोल्हापूर: राज्य शासनाच्या महत्वाकांक्षी मुख्यमंत्री सौर कृषी वाहिनी योजने अंतर्गत ४.४ मेगावाटचा कुंभोज (ता. हातकणंगले) येथील पहिला सौर ऊर्जा प्रकल्प शनिवारी

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Fevino Industries: Illuminating the Future with Innovation and Vision

Fevino Industries, renowned for its prowess in the global solar products and accessories market, is setting its sights on a new horizon. Established in 2017 by co-founders Arjun Dike and Rahul Bankar, Fevino Industries has not only solidified its position in the solar industry but is also poised to make significant strides in the manufacturing sector, with a focus on smart touch switches.

Inception and Vision

The story of Fevino Industries began in 2017 when visionary entrepreneurs Arjun Dike and Rahul Bankar embarked on a journey to transform the solar industry. Their vision was rooted in harnessing sustainable technologies to create a greener and more energy-efficient future. Recognizing the urgent need to transition towards eco-friendly solutions, they embarked on a mission that would redefine the way the world perceives and utilizes energy.

Founders' Background

Arjun Dike, armed with a background in BE Electronics and Tele Communication, and Rahul Bankar, with a foundation in BE Electronics and Tele Communication, brought their diverse expertise to the table. Their shared passion for innovation and sustainable solutions laid the foundation for Fevino Industries' growth. Arjun's technical acumen and Rahul's Marketing knowledge proved to be a dynamic combination, enabling them to navigate the complexities of the industry while staying true to their vision of a brighter, cleaner future.

Achievements and Present Position

From its humble beginnings, Fevino Industries has achieved remarkable milestones. With a portfolio encompassing solar LED street lights, solar high mast lights, solar flood lights, AC street lights, and AC flood lights, the company has become synonymous with reliability and quality. The co-founders' dedication to excellence has garnered them a loyal and growing clientele. Their ability to consistently deliver products that not only meet but exceed customer expectations has positioned them as leaders in the solar domain.

Steering Towards the Future

As Fevino Industries looks forward, its journey continues with renewed purpose. The company's commitment to innovation and sustainability remains unwavering. With a strategic expansion plan into the manufacturing sector, particularly focusing on smart touch switches, Fevino Industries is poised to set new benchmarks in quality and innovation. Their foray into smart touch switches represents an exciting step towards creating smarter, more efficient living spaces that cater to modern needs while minimizing energy consumption.

Community Engagement and Beyond

Fevino Industries' commitment to holistic growth extends to community engagement. Beyond business success, the company actively participates in philanthropic initiatives, by contributing food and educational materials to NGOs. Arjun Dike and Rahul Bankar's shared belief in making a positive impact is embedded in the company's ethos. By supporting initiatives that improve lives and empower communities, Fevino Industries showcases their dedication to corporate social responsibility.

A Continuing Journey

Fevino Industries' journey embodies innovation, determination, and a commitment to a better future. As it ventures into the manufacturing sector with the introduction of smart touch switches, the company remains true to its roots while embracing new possibilities. With Arjun Dike and Rahul Bankar at the helm, Fevino Industries is set to illuminate a path toward a connected, energy-efficient, and smarter tomorrow. Their legacy of innovation and sustainable practices paves the way for a future that's not only bright but also environmentally conscious.



Maharashtra: MSEDCL Introduces New Payment Policy For Consumers

Presently, MSEDCL serves a substantial customer base, with over 1.1 crore consumers (approximately 65% of the total) utilizing digital methods to settle their electricity bills.

In a significant move, the Maharashtra State Electricity Distribution Company (MSEDCL) has rolled out a new payment policy, reshaping the way consumers settle their electricity bills. Effective from August 1, the policy mandates a shift from cash transactions to digital payment platforms for bills exceeding ₹5,000. This transformation comes as MSEDCL, a major player in power distribution in India, caters to around 2.70 crore consumers across Maharashtra, excluding specific areas of Mumbai.

Under the newly implemented policy, consumers who previously enjoyed the flexibility of choosing between cash and online payments, regardless of the amount, will now need to utilize digital payment channels for bills surpassing ₹5,000. The decision aligns with a directive from the Maharashtra Electricity Regulatory Commission, which had earlier required all discoms in Mumbai, including Tata Power and Adani Electricity, to mandate online payment for bills exceeding the aforementioned threshold. MSEDCL was initially exempt from this mandate due

to its predominantly rural customer base; however, recognizing the growing trend of digital transactions in rural areas, the company has now extended the requirement to its customers as well.

The company's revenue stream receives a substantial boost, with an average monthly collection of ₹2,250 crore through these online transactions. Beyond financial gains, this shift to digital payments offers advantages for both consumers and MSEDCL. The company experiences expedited fund transfers, enhancing its operational efficiency, while consumers who opt for online bill payments are rewarded with a 0.25% discount, capped at ₹500. However, it's important to note that for agricultural consumers, the cash payment limit remains at ₹10,000.

Wider Trends The move towards digital payment adoption is not isolated to MSEDCL. In Mumbai, Tata Power serves a considerable consumer base of 7,60,000, with a notable 88% of customers already embracing online bill settlement. Similarly, Adani Electricity, catering to around 31,50,000 customers, witnesses around 80% of its consumers opting for the convenience of online payment methods. These figures reflect a larger societal shift towards digital financial transactions.



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“REC looks forward to financing the entire renewable value chain”

Vivek Kumar Dewangan,
chairman and managing director, REC

Formed in 1969, REC Limited's role has transformed significantly from a provider of agricultural pump sets for optimised irrigation to a provider of financial assistance to the power sector across the generation, transmission and distribution segments. Within the generation sector, its focus on the renewable energy space has been increasing. In an interview with Power Line, Vivek Kumar Dewangan, chairman and managing director, REC, shares his views on the investment scenario in the Indian renewable energy space, REC's exposure to the sector and its future plans. Edited excerpts...

How has investment in the renewable energy space evolved over the past few years?

In line with the prime minister's announcement at COP26, 179.32 GW of non-fossil fuel capacity has been installed in the country as of April 30, 2023. This includes 125.69 GW of renewables, 46.85 GW of large hydro and 6.78 GW of nuclear power capacity. The renewable energy share stands at 41.4 per cent of the total installed generation capacity, which is 416.59 GW as of April 30, 2023. Currently, India ranks fourth, globally, in installed capacity of renewables (including large hydro), as well as wind power capacity and solar power capacity.

In terms of investment, India has attracted substantial funds into the renewable energy sector. Investment in renewables touched a record \$14.5 billion in financial year 2021-22, an increase of 125 per cent over financial year 2020-21 and 72 per cent more than the pre-pandemic financial year 2019-20. This represents a substantial increase from previous years, and demonstrates the growing confidence of investors in India's renewable energy market. The investments have come from both domestic and international sources, including private equity firms, venture capital funds and multinational corporations.

To achieve India's ambitious target of 500 GW of renewables by 2030, the country needs to add 25 GW of renewable capacity annually for the next eight years. This will require an investment of around Rs 1,250 billion, or \$15-16 billion, on an annual basis.

Several factors have contributed to the increased investment in India's renewable energy sector. These include, primarily, favourable policy interventions, initiatives to drive clean energy, and incentives such as tax benefits, subsidies and low-cost financing options. The government's target of achieving 500 GW of renewable energy capacity by 2030 has also played a significant role in attracting investment.

Technological advancements and cost reductions have further propelled investment in India's renewable space. The falling prices of solar panels, wind turbines and energy storage systems have made such projects more economically viable. This has attracted a diverse range of investors, who see the sector as a financially attractive opportunity. Furthermore, the Indian government has actively encouraged foreign investment in the sector. It has implemented measures such as 100 per cent foreign direct investment (FDI) in renewable energy generation, and allowed FDI in the form of debt instruments such as bonds. These steps have facilitated greater participation of foreign

investors in India's clean energy market. The country's proactive policies, technological advancements and cost reductions have attracted substantial funds from domestic and international investors. The FDI in India's renewable energy sector stood at \$2.5 billion in financial year 2022-23, a 56 per cent increase year on year.

What are the most popular sources of financing in India in the renewable energy space?

In India's renewable energy space, the sources of financing that have been commonly utilised by project developers and investors include:

- **Commercial banks:** They provide project loans, working capital loans and debt financing options to developers. These loans often come with favourable interest rates, longer tenures and flexible repayment terms.

- **Non-banking financial companies:** These institutions specialise in providing loans and financial services to various sectors, including renewable energy. They offer project financing, refinancing, bridge loans, construction financing, equipment financing, project-specific funding facilities, letters of comfort/undertaking, etc., to support the development and implementation of clean energy projects.

- **International financial institutions (IFIs):** IFIs such as the World Bank, Asian Development Bank, KfW, JICA and the International Finance Corporation have been actively involved in providing financial support in the form of soft loans, grants and technical assistance, to promote clean energy development and address climate change concerns as well as capacity building.

- **Private equity and venture capital funds:** These

entities invest in renewable energy companies and projects, providing capital for their development and expansion. They often bring expertise and industry knowledge along with their financial investments.

- **Infrastructure debt funds (IDFs):** IDFs are specialised funds that provide long-term debt financing for infrastructure projects, including renewable energy. They offer project loans, refinancing options and structured debt products to support the financing needs of clean energy projects.

- **Green bonds:** They have gained popularity as a source of financing for renewable energy projects in India. These bonds are specifically issued to fund



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<div style="text-align: center; font-weight: bold; color: green;">Schneider Electric</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Neobreak & ACTI 9</p>  <p>MCB's, D.B.'s RCB's & Plug Sockets</p> </div> <div style="width: 45%;"> <p>MCCB's</p>  <p>Easypact CVS & NSX16A to 1250A</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <p>ACB</p>  <p>Masterpact MVS ACB 800A to 3200A</p> </div> <div style="width: 30%;"> <p>ATS</p>  <p>Auto Source Change over 100A to 630A</p> </div> <div style="width: 30%;"> <p>Capacitors</p>  <p>Meher Capacitors Dry Type MPP type & Gas filled</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <p>Contactors & Relays</p>  </div> <div style="width: 30%;"> <p>TESYS E & D Model</p>  </div> <div style="width: 30%;">  </div> </div>	<div style="text-align: center; font-weight: bold; color: red;">CLIPSAL</div> <div style="margin-top: 10px;"> <p>opale</p> <p>Switches with Satin Finish</p>  </div> <div style="margin-top: 10px;"> <p>ZENcelo be in-Standing</p>  </div> <div style="margin-top: 10px;"> <p>neo C-METRO</p>  </div> <div style="margin-top: 10px;"> <p>LIVIA Life. Style.</p>  </div> <div style="margin-top: 10px;"> <p>ULTI The Ultimate Switch</p>  </div> <div style="margin-top: 10px;"> <p>Home Automation</p>  </div>
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environmentally friendly projects, and attract investors who prioritise sustainability.

It is worth noting that these sources of financing often complement each other, and a combination of multiple funding options is often utilised to meet the financial requirements of renewable projects in India.

What is REC's level of exposure in renewable energy financing? What are REC's existing and upcoming schemes in this space?

REC's loan book in the renewable space has grown from Rs 75.06 billion, or 3 per cent of its total loan book of Rs 2,390 billion in financial year 2017-18, to Rs 290.73 billion, which is 7 per cent of its total loan book of 4,350 billion in financial year 2022-23. REC aims to increase its renewable portfolio to Rs 3,000 billion by 2030. REC looks forward to financing the entire renewable value chain.

Aggressive efforts in this direction will reduce the cost as well as the demand for fossil fuels to create a sustainable and thriving planet for future generations.

What is the company planning in rural electrification financing?

REC has played a pivotal role in achieving the Government of India's target of electrifying unelectrified villages and universal household electrification, as a nodal agency for the Deen Dayal Upadhyaya Gram Jyoti Yojana and the Pradhan Mantri Sahaj Bijli Har Ghar Yojana-Saubhagya scheme.

REC is also providing counterpart funding to the various rural electrification schemes being implemented by state power utilities, and actively supporting the efforts of the Government of India to provide electricity in every corner of country.

Under these schemes, off-grid connectivity through renewable-based energy sources, mostly solar, were provided in places where grid connectivity is not feasible or cost-effective. REC has sanctioned projects under PM-KUSUM for the solarisation of agricultural pump sets in rural areas.

What are some of the emerging opportunities that you and the organisation are keen on from a financing perspective?

Apart from conventional renewable projects such as solar and wind, REC has ventured into financing of hybrid projects, pumped storage projects, energy storage projects, e-vehicle projects, manufacturing of solar modules, C&I projects, etc.

REC has sanctioned financial assistance to

hybrid projects and is keen on financing more such projects. In addition, REC has sanctioned pumped storage projects and shall focus on capturing them. Inter-state transmission projects for procuring power from green energy corridors supplementing energy transition would be another focus. Moreover, REC has been one of the first movers in providing financial assistance to e-bus projects.

With the introduction of basic customs duty for import of solar cells/modules, domestic manufacturing of solar cells/ modules is expected to experience a quantum jump. This scenario presents a huge opportunity for REC to explore financing opportunities in the solar module manufacturing sector. REC is already providing financial assistance to GW-scale manufacturing projects. REC is aggressively exploring the financing of sunrise sectors such as green hydrogen, green ammonia, RTC power projects involving the bundling of renewable projects with thermal power, and other opportunities such as ethanol manufacturing projects.

What are the company's long-term plans in the renewable energy investment space?

REC is aiming for a Rs 10,000 billion loan book by 2030 with an emphasis on renewable energy, which is expected to contribute 25-30 per cent of it. REC is poised to expand its loan book under the renewable energy portfolio to Rs 2,400 billion-Rs 3,000 billion by 2030.

Courtesy : Powerline

SJVN signs MoUs with ONGC and SSL for development of renewable energy projects

SJVN Limited has signed separate memorandums of understanding (MoU) with Oil and Natural Gas Corporation Limited (ONGC) and Sambhar Salts Limited (SSL), a subsidiary of Hindustan Salts Limited.

The MoU inked with ONGC will pave way for joint development of renewable energy projects, including offshore and onshore wind, solar, hybrid, round the clock (RTC) projects, and new technologies such as green hydrogen, and green ammonia. The joint development of the projects shall be done by formation of a joint venture company between SJVN Green Energy Limited (SGEL), a wholly owned subsidiary of SJVN, and ONGC. Meanwhile, the MoU with SSL has been signed for the development of solar projects/park in phased manner by SGEL on the identified land bank of SSL. Both the companies will explore avenues for equity partnership, revenue sharing mechanism for development of solar projects through project specific implementation agreements. These developments will further strengthen the footprints of SJVN in renewable energy sector.

Bureau Veritas Becomes Certification Body for CertifHy™ Hydrogen Scheme



The CertifHy™ Non-Governmental Certification Scheme offers certified proof of origin for hydrogen throughout Europe.

CertifHy™ aims to facilitate and advance the production, procurement, and use of non-renewable, renewable, and low-carbon hydrogen. It has developed the CertifHy™ Non-Governmental

Certification (NGC) scheme in Europe to support the growth of the hydrogen market by providing a reliable tool for consumers to track hydrogen's origin and environmental credentials.

The methodology underpinning this scheme focuses on two aspects: the origin of the energy used, and the carbon footprint of the hydrogen produced. These non-governmental certificates facilitate the trade of renewable and low-carbon hydrogen throughout Europe.

Bureau Veritas performs around 300,000 audits each year, providing its clients with the same high level of quality worldwide, thanks to more than 7,400 experienced auditors and centralized support. With this new accreditation, its auditors can now also perform CertifHy™ audits of hydrogen production facilities to ensure that the energy produced meets the CertifHy™ NGC Scheme requirements.



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AEROCOMPACT Dominates the Solar Market with Unparalleled Performance

AEROCOMPACT, a renowned expert in PV mounting systems, has unveiled its latest groundbreaking innovation, the COMPACTPITCH XM-F REPTILE. This versatile solution for pitched roofs offers unparalleled performance and compatibility with various roof tiles. Under the visionary leadership of Albert Vonbun, AEROCOMPACT has taken the lead in redefining tile solutions and advancing state-of-the-art substructures.

AEROCOMPACT's cutting-edge invention introduces the industry's highest load-bearing capacity by replacing expensive and inflexible sealing components with an integrated solution. The cover plate can be effortlessly positioned independently of the fastener unit, enabling seamless installation above the rafter and direct force transfer into the roof structure.

The patent-pending labyrinth-style seal ensures a durable and effortless seal at the desired breakthrough point during installation. Combined with the robust X60 rail, this innovation drastically reduces the need for roof hooks, resulting in significant time, material, and cost savings. Moreover, the optimized force transmission capability allows the system to thrive even under high snow loads, making it an ideal choice for challenging climates.

Maximum Design Freedom:

AEROCOMPACT's comprehensive system, available for purchase from the end of July, includes fasteners and colored cover plates in various shades – red, brown, or anthracite. This revolutionary approach eliminates the labor-intensive process of cutting roof tiles with an angle grinder to fit the PV mounting system, mitigating the risk of damaging tiles. Furthermore, the system's independence from tile positioning ensures optimal force transfer into the roof structure.

The solution introduces new industry standards for sealing and flexibility. The cover plate seamlessly replaces a roof tile and can be conveniently adapted to fit surrounding tiles without requiring any machining. Thanks to pre-mounted assemblies, installation becomes a quick and user-friendly process, requiring just one tool.



AEROCOMPACT's aim is to revolutionize PV mounting, enhancing efficiency, cost-effectiveness, and adaptability for various roof tile types prevalent in the European market.

Swift Assembly Process :

The installation process for AEROCOMPACT's system is highly efficient and straightforward. Starting with the secure screwing of the base plate onto the rafter, the carriage is then fixed in the appropriate position. The cover plate is easily adjusted along the roof tile contour, and a gentle thumb pressure marks the ideal spot for fixing the roof hook. The pre-assembled hook is then securely fastened using two thin sheet metal screws. Offering flexibility for different configurations, the carriage can be attached at three different heights, depending on the roof batten height. Fine adjustments of the latched X-rail are easily achieved with the preassembled quick connector.

Optimized Force Transmission:

The advanced system excels in directly transmitting resulting forces into the roof structure. With its impressive load capacity, the system allows for spans of up to 1.4 meters between roof hooks, substantially reducing the number of hooks required compared to traditional systems. This exceptional stability enables the system to withstand high snow loads effectively, making it a reliable choice for regions with challenging weather conditions.

AEROCOMPACT's COMPACTPITCH XM-F REPTILE is a game-changing innovation, setting new standards in the solar market. With its unrivaled performance, compatibility, and efficiency, this system is poised to dominate the industry, reinforcing AEROCOMPACT's position as a frontrunner in PV mounting solutions.



Plastics from Green Hydrogen Unlock Promise of Circular Economy – Hycap



Plastics from green hydrogen unlock promise of circular economy – Hycap.

What if manufacturing plastics was carbon negative? Thanks to clean hydrogen that is exactly what could happen.

Abu Dhabi clean energy pioneer Masdar, Japan's Mitsubishi Chemical Group Corporation and INPEX last week agreed to explore production of the world's first commercial-scale polypropylene made from carbon dioxide and green hydrogen.

Polypropylene is a commonly used plastic used to manufacture items such as bottles, jars and food packaging. Invented in the early 1950s, it is one of the most widely used plastics in the world today. In 2022, 79 million metric tons of polypropylene were produced, a figure that is expected to reach 105 million metric tons by 2030.

There are several ways of making polypropylene through traditional methods, but they all begin with crude oil.

Masdar, Mitsubishi Chemical and INPEX plan to make polypropylene from e-methanol, which itself is made from green hydrogen and carbon dioxide. Green hydrogen is produced by using renewable energy to split water with electrolyzers.



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Delhi HC Restrains Kent RO from Using 'KENT' Trademark for Selling Electric and Electronic Goods



While granting a permanent injunction in favour of Kent Cables Pvt Ltd, the Delhi High Court (HC) has asked Kent RO Systems Ltd not to use Kent Cables' registered trademark 'KENT' while selling electrical and electronic goods, including but not limited to fans, lighting products, wires, and cables.

In an order, Justice Jyoti Singh says, "...this court comes to an irresistible conclusion that at this prima facie stage, the balance of convenience lies in favour of Kent Cables rather than Kent RO. Accordingly, intervention application (IA) 13851/2022 filed by Kent Cables is allowed to the extent of permanently restraining Kent RO, its directors, members, employees, agents, associates, servants and representatives and all other persons, including a body corporate on their behalf from manufacturing and selling fans under trademark KENT, directly or indirectly, amounting to passing off their goods as those of Kent Cables, during the pendency of the suit. IA 14316/2022 filed by Kent RO for restraining Kent Cables from selling fans is dismissed."

"Kent Cables has made out a case of prior user and passing off by prima facie establishing its reputation and goodwill, confusion likely to be caused amongst the public if Kent RO sells its fans,

considering the identity in the trademark KENT and the resultant damage to its reputation," the bench says.

The HC noted that Kent RO has remained dormant for years concerning the use of its mark KENT in fans, and in the interregnum, Kent Cables has increased its sales considerably. "What is the extent of sales of Kent Cables as well as the supineness of Kent RO in remaining dormant, would be a matter of evidence during the trial of the suit. The balance of convenience lies in favour of Kent Cables, which has developed a well-established business in the manufacture and sale of fans and has been continuing for over 15 years and if Kent Cables is now restrained from selling fans, it will result in irreparable harm and injury while on the other hand, Kent RO was yet to launch the fans in 2022 and in any case has its prime business in purifiers and home appliances and restraint on launching fans would not create any dent in its business at this stage."

The bench also observed that Kent Cables had been a prior user while Kent RO, on the other hand, had not used its trademark for the manufacture and/ or sale of fans since 1999, when it stepped into the manufacture and sale of water purifiers. "In spite of knowledge of the sale of fans by Kent Cables at least in 2011, took no steps to protect its interests," the HC says.

In 1988, Mahesh Gupta, chairman and managing director (CMD) of Kent RO adopted the 'KENT' trademark for oil meters and started using it as 'KENT Oil Meters'. In 1999, Mr Gupta launched reverse osmosis (RO)-based domestic water purifiers in the Indian market under the trademark KENT for which a patent was also granted, which has now expired.

Kent RO is primarily in the business of dealing in water purifiers under the mark KENT and Kent Cables has no objection to the use of the trademark in relation to water purifiers.

However, in the third week of August 2022, Kent Cables received information from its distributors that Kent RO was planning to launch fans and perhaps lighting products and cables under the trademark KENT. After investigation on social media platforms, it came across various posts by Kent RO where it advertised vacancies for hiring specialists in the division of fans. Kent Cables then filed oppositions and rectifications against applications filed by Kent RO for registration in Classes 09 and 11.

Kent RO has registrations in Class 07, but they do not pertain to fans, and registration in Class 09 does not cover wires, while registrations in Class 11 do not cover lighting.

Kent Cables contended that Kent RO has no right to adopt the mark KENT regarding fans, lighting products, switches, and wires for which the company is a prior user.

Last year, Kent RO filed a suit before the HC which, on 29 July 2022, directed both parties to maintain a status quo

while restraining Kent Cables from launching its kitchen appliance products till the next date of hearing.

"Way back in 2011, Kent RO admittedly knew of the sale of fans by Kent Cables and took no action to protect its interests with respect to fans. The fact situation as it stands today is that Kent Cables has been selling fans for over a decade and has humongous volumes of sales while Kent RO is yet to launch. Therefore, at this prima facie stage, the argument of allied and cognate cannot aid Kent RO," the HC says in the order.



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इकॅम नाशिक विभागातर्फे मा. अधीक्षक अभियंता नाशिक यांना निवेदन



आज इकॅम नाशिक विभागातर्फे ठेकेदार बंधुच्या अडचणीबाबत मा. अधीक्षक अभियंता नाशिक यांना निवेदन देऊन त्यावर सविस्तर चर्चा झाली व ठेकेदार बंधुच्या अडचणी लवकरात लवकर मार्गी लावण्याचे आश्वासन मा. अधीक्षक अभियंता साहेब यांनी दिले. महावितरण कंपनी कडून कार्यकारी अभियंता काळे साहेब, उप कार्यकारी अभियंता मराठे साहेब, पराग चौधरी साहेब यांची उपस्थित होती, सदर मीटिंग साठी इकॅम नाशिक चेअरमन सचिन फरतडे, सचिव सुशील भुरे खजिनदार संदीप शिंदे, संचालक धनंजय पाटील, भरत देवरे, माधव भोळे मामा, योगेश गायकवाड, सुमित सजनुले, किरण सातपुते, किशोर ठाकरे, महेंद्र पाटील, कृष्णा देवकर, राजू गोराडे, संदीप जोशी, राम पांडे, प्रभाकर भोकरे, मेहुल वाघ, किशोर पंडित, विकी पिंगळे, अशोक अहिरे, साहेबराव जाधव, अहिरे. साई पाडेकर, अमित जाधव, राकेश राजभोज व इतर असंख्य ठेकेदार बंधू उपस्थित होते.

Renewable industry veteran Chinta Shah joins NSEFI as Principal Advisor

New Delhi: The National Solar Energy Federation of India (NSEFI), an umbrella body for renewable energy policy advocacy, on Thursday said Chintan Shah has joined the body as a principal advisor and will be looking after the advocacy efforts to accelerate India's energy transition.

According to the official press release, in his new role, Shah will be guiding NSEFI's policy advocacy encompassing the entire renewable energy value chain including manufacturing while

focusing on instruments to enable affordable and accessible financing along with industrial decarbonisation.

Shah, a renewable industry veteran, has three decades of experience in various roles across the value chain of India's renewable energy ecosystem. In his previous role, as Director - Technical at the Indian Renewable Development Agency (IREDA), he led the mission for achieving MoU tar pertaining to loan sanctions, disbursement, etc.



Sterling and Wilson Renewable Energy wins orders worth Rs. 826 crore

New Delhi: Sterling and Wilson Renewable Energy on Thursday said it has won orders worth Rs 826 crore for an aggregate capacity of about one gigawatt (GW) in the first four months of FY24.

According to the official press release, the projects are in Rajasthan, Uttar Pradesh, and Gujarat. Scope of work for all projects include design, construction and commissioning.

"India continues to be a key market and we

have been working together with different stakeholders, towards boosting renewable capacity in the region. All orders clocked in these four months are from our recurring partners..." said Amit Jain, global CEO, Sterling and Wilson Renewable Energy Group.

He added that over the past decade the company has been a dominant player in the domestic market and is poised to deliver high-quality renewable solutions that drive sustainability.



Why the future of climate action rests on strong renewable energy

The future of energy security is contingent on building robust, efficient, and battery energy storage systems.

Three decades is a long time to accomplish any reasonable goal. It is also a long enough time for things to go wrong. According to the International Renewable Energy Agency (IRENA), by the year 2050, almost 90 percent of electricity generation can and should come from renewable energy (RE) sources to move the needle on the UN-prescribed Sustainable Development Goals. Even as nations around the world look at ways to boost their respective RE capacities to reduce their emissions, global disruptions such as the Covid-19 pandemic, the Russia-Ukraine war, and the fallouts of the US-China Strategic competition have exposed chinks in the global RE supply chain. These supply chains were originally built to support what was then a fledgling industry. Today, however, with RE taking center stage, the vulnerabilities of the old approaches have become apparent. The world needs robust, efficient, standardized RE supply chains not just within but between countries; no country can be left out. The future of energy security is contingent on building such supply chains for solar and wind energy, green hydrogen, and battery energy storage systems.

The need for a far more even spread of supply chain capabilities across countries

RE supply chains involve complex technical processes and depend on multiple factors, including access to critical minerals, rare-earth elements,

technology, and capital; availability of skilled workers and uninterrupted, reliable electricity; and the presence of robust infrastructure. Owing to their technology-intensive and capital-intensive nature, the manufacturing capacities of RE technologies and sub-components are currently concentrated in only a handful of countries. For instance, almost 70 percent of the global exports of solar photovoltaic equipment come from just four countries. In wind power equipment, too, four countries have accounted for more than 80 percent of the total exports in the past ten years. The battery component manufacturing ecosystem, meanwhile, is concentrated in China, Japan, and Korea.

The world's biggest economies have led the way in deploying RE and building RE supply chains. They should bear the responsibility of ensuring that these supply chains benefit not just themselves but the entire global community. International forums must serve as platforms to highlight the experiences, concerns, and demands of the governments, regulators, industries, and the consumers of all countries - not just of specific blocs or geographical regions. The G20, for instance, should ensure that smaller economies become equal partners in enabling the global energy transition. This applies particularly to the "Global South", which has traditionally been more a consumer than a producer of RE technologies.



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Adani New Industries raises \$394 million for solar module manufacturing

Adani New Industries Limited (ANIL), a subsidiary of Adani Enterprises Limited, has raised a trade finance facility worth \$394 million from Barclays Plc and Deutsche Bank.

The funds will be utilised to meet the working capital requirements of ANIL's solar module manufacturing facility. Notably, ANIL aims to establish a comprehensive ecosystem for green hydrogen, incorporating solar module and wind turbine manufacturing.

Adani Transmission renames to Adani Energy Solutions

Adani Transmission Limited has undergone a name change and will now be known as Adani Energy Solutions Limited.

According to the company, the renaming was warranted by the company's entry into the power distribution space following the acquisition of the power distribution business of Reliance Infrastructure, subsequent expansion and the application of a parallel licence in Maharashtra and Uttar Pradesh and the proposed likelihood of various initiatives expected to lead the company into a new future.

GreenH Electrolysis to establish 1 GW electrolyser manufacturing plant in India

GreenH Electrolysis, a joint venture between H2B2 Electrolysis Technologies of Spain and GR Group from India, is planning to establish a cutting-edge proton exchange membrane electrolyser manufacturing facility in India.

The 1 GW plant will be situated in the Reliance MET Industrial Park, Jhajjar District, Haryana, with the first phase utilising a 97,000 sq.ft. area. The manufacturing plant will have an initial capacity of 100 MW, and the company has plans to scale it up to 500 MW within the next two years on the same premises. Installation of the plant is currently underway, and operations are expected to commence by October 2023. For Phase 2, additional land will be procured to expand the capacity to 1 GW.

Contd. Page from 26

Electrical safety hacks this monsoon...

Be careful of outdoor lighting: It is crucial to exercise caution when installing and using outdoor lighting to prevent accidents. Make sure to choose products that are Ingress Protection IP – 65,66,67 rated. Regularly inspect and maintain your outdoor lighting system, checking for any signs of damage or deterioration.

Unplugging non-essential appliances: During the monsoon season, it is crucial to develop the habit of unplugging non-essential appliances to avoid potential damage from power surges. The increased presence of rain and lightning can lead to sudden fluctuations in the electrical supply, which can pose a risk to sensitive electronic devices. By unplugging appliances that are not in use during this time, you can minimize the chances of power surges causing harm to your valuable equipment. This simple yet effective practice acts as a proactive measure to protect your appliances and provides you with peace of mind, knowing that you have taken steps to safeguard them against potential electrical hazards during the monsoon season.

As an industry on one hand, we have the honour of fulfilling the necessity of electrical needs, critical to sustenance of life, we also have a huge responsibility of ensuring the safety of our consumers. At Polycab India, our commitment to innovation is highly motivated by our care and concern for the safety of our consumers. We offer a wide range of products from modular switch plates to highly protective switchgears, state-of-the-art cables and wires, and smart control panels, owing to the focus on safety embedded deep in our DNA.

Life is valuable and small steps and the willingness to stay aware are enough to staying safe. I urge the consumers to give priority to safety and always choose to adopt quality and eco-friendly products. In conclusion, safeguarding ourselves and our homes from electrical hazards during the monsoon season demands our utmost attention and diligence. Remember, electrical safety is a crucial concern that should never be underestimated. Stay informed, stay cautious, and make electrical safety a priority throughout.

BHEL signs MoU with GREENSTAT for collaboration in green hydrogen

Bharat Heavy Electricals Limited (BHEL) and GREENSTAT Hydrogen India Private Limited have entered into a memorandum of understanding (MoU) to explore potential opportunities for cooperation in green hydrogen and its derivatives in the hydrogen value chain.

This agreement sets the stage for joint efforts in the hydrogen value chain, aligning with the central government's National Hydrogen Mission, and the goal of enhancing India's self-reliance.





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Natural Hydrogen could change the world, if we understood it

In 2011, Montreal-based Hydroma Inc. unplugged a water well near Bourakébougou cemented up in 1987 after the air rising from it caused an explosion. The exhalations t out to be 98% hydrogen, which was then burned to provide electricity to the village

A village in the arid savannah of west Africa seems an unlikely place to mark the birth of an energy revolution. If promoters of the next big thing in clean power are right, however, we may all remember the name of Bourakébougou in years to come. That's because the site 55 kilometers (34 miles) northwest of Mali's capital Bamako was the first place on earth powered by natural hydrogen

That series of events seems to defy conventional geochemistry. Hydrogen is one of the most reactive elements — one reason it combines so readily with carbon to make fossil fuels. As a result, pure hydrogen is often assumed to be vanishingly rare in nature. Its role is so overlooked that gas chromatography — the process that chemists use to work out the composition of gaseous mixtures — typically uses hydrogen as a carrier material, making it impossible to detect in samples from underground wells. A growing wave of discoveries is now challenging that conventional wisdom, just as hydrogen manufactured from water and renewable energy looks set to disrupt fossil fuel's role in a host of industrial sectors. Aside from Bourakébougou, wildcatters have found seeps of natural H₂ in Oman, New Caledonia, Canada, Russia, Australia, Japan, Germany and New Zealand.

kilogram — prices at which it might start to compete with natural gas. One 2020 study estimated that total global outflows of natural hydrogen might come to 23 million metric tons a year or more. A switch into natural hydrogen might represent the perfect way for the existing petroleum

industry to decarbonize — shifting skills in geology and tapping underground fluids to a green fuel of the future.

There are just two problems with this promising vision. The first is that we understand next to nothing about natural H₂. Crude oil extraction dates back to antiquity, and geologists hypothesized it came from decayed organic matter in the 18th century. Drillers worked out that it got trapped in folded underground rock formations long before John D. Rockefeller turned crude into big business. That scientific

depressions in the ground, known as “fairy circles,” but it's not well understood exactly why these form. Until such questions are solved and underground reservoirs are mapped out, it's going to be challenging for hydrogen startups to take on the giants of the energy industry. Hyterra's Kansas and Nebraska prospects might be an attractive option as feedstock for the fertilizer consumed so readily in the Great Plains — but any plant set up to exploit the resource will want to know whether the wells will keep producing for 20 years or two months. That's still not clear. The other issue is related. That estimate of 23 million tons a year sounds like a lot — but in energy terms, it's paltry. The EU alone hopes to be consuming 20 million tons a year of manufactured green hydrogen by 2030, and even that is barely enough to slake the world's fossil-fuel appetites. In energy terms, 23 million tons of hydrogen represents about 2.76 exajoules — similar to the amount of natural gas we consume every week It's early days for natural hydrogen, so don't be too dispirited. No one has really been looking for this stuff until now, and predictions about the availability of mineral resources are almost always underestimates. (In 1919, the US Geological Survey predicted that country would start running out of oil in two to five years.)



IIT Mandi study sheds light on benefits of recycling end-of-life solar cells

The findings, published in the journal Resources, Conservation and Recycling, demonstrate that recycling these materials will significantly reduce the environmental impact compared to conventional mining and production practices.

Mandi: Researchers at the Indian Institute of Technology (IIT) Mandi have proposed industrial solutions for the effective recycling of solar cell components and materials.

The findings, published in the journal Resources, Conservation and Recycling, demonstrate that recycling these materials will significantly reduce the environmental impact compared to conventional mining and production practices.

In addition, the recycling of solar cell modules enables the recovery of valuable resources such as cadmium, tellurium, indium, gallium, and germanium. These resources have limited reserves and are in high demand within the industry.

India's solar energy infrastructure is rapidly expanding, and as of November 2022, it had a capacity of approximately 62 GW, according to Dr Satvasheel Ramesh Powar, Associate Professor, School of Mechanical and Materials Engineering, IIT Mandi.

"Given that solar cell modules have a lifetime of about 30 years, the country will produce 4.4 to 7.5 million tonnes of solar cell waste by 2050. Solar panel

trash may become the most prevalent kind of rubbish in landfills as early as 2030.

"Addressing this environmental challenge hinges on understanding the various aspects of reuse, repurposing, recycling, and recovering valuable resources from solar cell wastes," Powar said.

In the study, the team discussed the life cycle assessment of crystalline silicon (c-Si) and cadmium telluride (CdTe) PV modules and presents a comprehensive analysis of their environmental impact and the benefits of recycling.

They also compared the process of mining and refining glass, metals, and semiconductor materials from c-Si and CdTe PV modules to traditional mining and production methods.

The study emphasises the need for governments and industry stakeholders to take proactive measures in implementing green certifications and providing incentives.

These actions are crucial to foster the recycling and mineral recovery of the PV industry.

Building upon their study, the researchers also developed a comprehensive recycling methodology encompassing reduce, reuse, repurpose, repair, refurbish, redesign, remanufacture, and recycle methods. This holistic approach aims to minimise waste and energy consumption during the end-of-life processing of solar PV modules.



Automatic Electric Ltd.



Multifunction Meter

AE 9000S - Precision Measurement Class 0.2

1. Product Perspective

The meter offers simple user-friendly Programming of Voltage Current, Power & Energy measurement parameters using a menu driven interface. Status of all parameters can be viewed through 30 main Screens on the 3 line, 4 digits LED display. The AE-9000S has RS485 Communication outputs for Modbus and is ideal for Energy Management System.

2. Operation

AE-9000S offers highly accurate and uncomplicated operation. AE-9000S measures all the values needed to monitor power and Energy. A five-button interface on the front panel gives simple access to the measuring, display and configuration screens. The "A" (navigation key) button has access to 53 major electrical parameters to be viewed through display screens.

Specifications

Type	1/3-Phase-3-wire/ 4wire (Programmable through front panel).
Input voltage VAC	110V or 415 V (L-L)
Voltage Overload	1.5 time for 10 sec
Input Current AAC	1A or 5A
Current Overload	50A max for 3 sec
Auxiliary supply	AC/DC: 85 V - 285 V.
Burden	For Voltage / Current -0.2 VA max per Volt/Amp input, Auxiliary - 3VA max.
Frequency	45 Hz-55Hz
Resolution	RMS 4 digit, Integral 8 digit
Accuracy Class	0.2S
RS485 communication	Two wire half duplex Baud rates 9600,14400,19200,38400.

Isolation	2k VAC isolation for 1min. Between communication and other circuit.
Demand Interval	Programmable from 5 to 30 Minutes. (In steps of 1 Minute)
Environmental	Operating Temp. -10 to +60 °C. Storage temp. -20 to +70°C, Humidity ≤95% RH non condensing.
Mechanical Size	Bezel: 96 x 96 mm Depth: 83mm behind Bezel
Protection	IP52 for front Display.
Conform to	IS 1248- Part1, IS13875, IEC-61000-4-2, IEC61000-4-5, IEC61000-4-6
Casing	ABS
Keypad	5 Functional keys
LED Indication	31 individual LED's for parameter information

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