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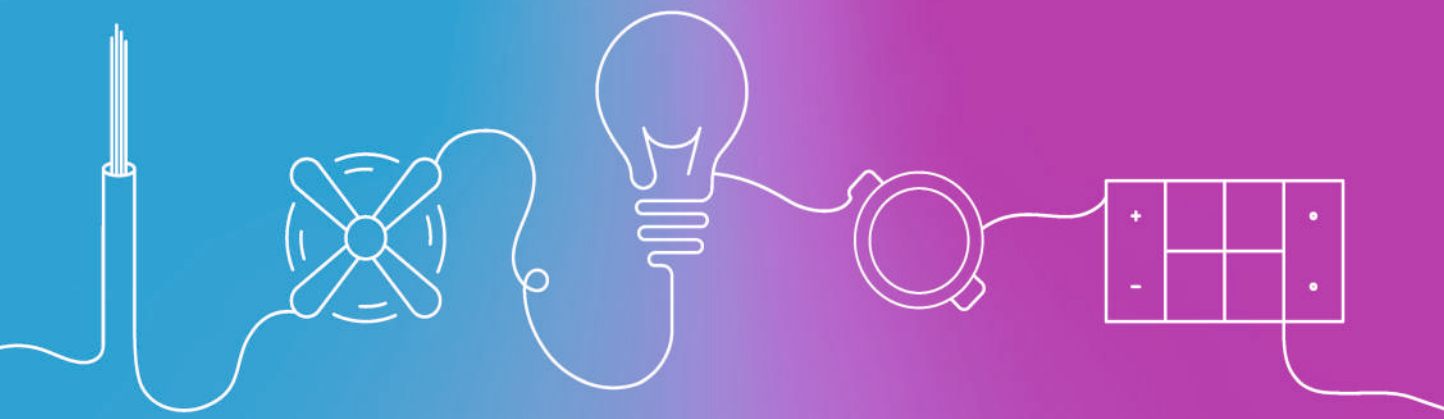

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Financial Management In Business

You need to be careful about managing your finances, including cash flow, budgets and financial reporting. Finance is the lifeline of a business organization. It needs to meet the requirements of the business concern. Each and every business must contain an adequate amount of finances for the smooth running of operations. The business goal of any enterprise can only be achieved with the help of effective financial management. You cannot neglect the importance of finance at any given time or in any situation. The role of financial management is far too essential in the growth and success of a business organization.

Importance of Financial Management

Financial Planning : Financial management enables the determination of the financial requirement of the business and leads to making financial decisions accordingly. Financial planning is yet another important aspect of business concerns that helps to promote an enterprise.

Acquisition of Funds: Financial management is concerned with the acquisition of required finance for the business. Acquiring needed funds plays a critical role in financial management that involves a possible source of finance at a minimum cost.

Improve Profitability: Profitability is a major concern for any business organization and it purely depends on the effectiveness and proper utilization of funds by the organization. With the help of strong financial control devices like budgetary control, ratio and trend analysis, and cost-volume-profit analysis, financial management assists in improving the profitability position of the business.

Proper Utilization of Funds: Goes without saying, that financial management is all about the proper allocation and utilization of funds. This process of financial management helps improve the operational efficiency of the business. When used accurately, it can reduce the cost of capital, increase the value of the firm and strengthen the overall financial position of the business.

Increase the Value of the Firm: Financial management is essential in the field of increasing the wealth of the investors and the business. The ultimate aim of any business is to achieve maximum profit and higher profitability which leads to maximizing the wealth of the investors as well as contributing towards the growth of the organization.

These are the pointers to adhere by the organization for a business.

I wish you all the very best for new ventures and a Happy Navratri followed by a festival of Good concurring Evil..... **DUSSEHRA**.

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इकॅम शताब्दी : जाने. २४ ते जाने. २५

नमस्कार मित्रांनो,

आपल्या इकॅमचे माजी अध्यक्ष श्री. सुनील भुरे यांचे दिनांक २३ ऑगस्ट २०२३ रोजी आकस्मिक निधन झाले. त्यांच्या निधनाने समस्त इकॅमचे कधीही न भरून येणारे नुकसान झाले आहे. त्यांनी संस्थेसाठी केलेल्या कामांबद्दल तसेच इकॅममध्ये असलेल्या योगदानाबद्दल ते आमच्या सदैव स्मरणात राहतील. त्यांच्या आत्म्यास शांती लाभावी हीच ईश्वरचरणी प्रार्थना आहे. त्यांचे कार्य आपण पुढे चालवण्याचे प्रयत्न करू. हीच त्यांना खरी श्रध्दांजली असेल.

इकॅम धुळे नंदुरबार विभागाची वार्षिक सभा शनिवार, दिनांक १६ सप्टेंबर २०२३ रोजी हॉटेल रेसिडेन्सी पार्क, मुंबई आग्रा हायवे, धुळे येथे संपन्न झाली. सदर वार्षिक सभेस इकॅमचे महासचिव श्री. देवांग ठाकूर, उपाध्यक्ष श्री. उमेश रेखे, मुंबई मुख्यालयाच्या संचालकांनी तसेच धुळे नंदुरबार विभागाच्या सभासदांनी उपस्थिती दर्शविली. सदर सभा खेळीमेळीच्या वातावरणात पार पडली. धुळे नंदुरबार विभागाच्या वतीने एक प्रदर्शन आयोजित करण्यात आले होते.

सर्व सभासदांना कळविण्यात येत आहे की, आपल्या संघटनेचा शताब्दी महोत्सवास काही महिने उरले आहेत. ECAMEX 24 प्रदर्शन NEC, गोरेगाव मुंबई येथे आयोजित करण्यात येत आहे. सदर प्रदर्शन यशस्वी करण्यास आपल्या सर्वांचा या प्रदर्शनात सहभाग गरजेचा आहे. आपणास मी आवाहन करीत आहे की आपण या प्रदर्शनासाठी स्टॉल बुकींगसाठी प्रयत्न करावेत. तसेच शताब्दी महोत्सवाच्या अनुषंगाने आपल्याला मौल्यवान सुचना द्यायच्या असतील तरी आपण त्या इकॅम मुख्य कार्यालयाला कळवाव्यात. त्याचप्रमाणे शताब्दी महोत्सवानिमित्त दैनंदिनी तसेच दिनदर्शिका काढण्यात येत आहे. सदर दैनंदिनी तसेच दिनदर्शिका प्रकल्प यशस्वी करण्यासाठी आपण या दैनंदिनीमध्ये जाहिरात देण्यासाठी जास्तीत जास्त प्रयत्न करावेत.

आपल्या आय.ई.सी.टी. मासिकामध्ये तसेच स्मरणिकेसाठी आपल्या व्यवसायासंदर्भात विविध लेख छापणार आहोत. मी आपणास आवाहन करतो की ज्या सभासदांना आपले लेख किंवा उपक्रमांसंबंधी काही माहिती 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 साधून त्वरीत कळवावे व जर आपला बदललेला पत्ता असेल तर तो ही कळवावा. हा पत्ता त्वरीत आय.ई.सी.टी. मासिकाशी संपर्क साधून त्यांना पाठविला जाईल.

इकॅमची सभासद संख्या वाढवण्यासाठी इकॅमकडून जोरात प्रयत्न चालले आहेत. आपली सभासद संख्येत वाढ व्हावी यासाठी आपले बहुमुल्य सहकार्य आम्हाला अपेक्षित आहे. आपणास आवाहन करतो की आपल्या आजुबाजुला असलेल्या नविन विद्युत ठेकेदारांशी संपर्क साधून त्यांना इकॅम संघटनेविषयी माहिती देऊन सदर ठेकेदारांना इकॅमचे सभासद बनवून घेण्यासाठी प्रयत्न करावेत.

आपणास जर आपल्या व्यवसायासंदर्भात काही अडचणी येत असतील तर आपण त्या इकॅम मुख्यालयाला लेखी कळवाव्यात. इकॅमच्या सभासदांना येणाऱ्या अडचणी सोडवण्यासाठी आम्ही कायम प्रयत्नशील राहु असे आम्ही आपणास आश्वासन देतो.

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Vital role of Electrical Transformers

Electrical transformers play a crucial role in India, as they do in many countries, due to their significance in the electrical power generation, transmission, and distribution infrastructure. Here are some key reasons highlighting the importance of electrical transformers in India:

Voltage Regulation: India has a diverse geographical landscape, and power generation often occurs in areas far from urban centers. Transformers are essential for stepping up or stepping down voltage levels to ensure efficient and safe power transmission over long distances. They help in maintaining voltage levels within acceptable limits, preventing damage to electrical equipment and ensuring a stable power supply.

Grid Integration: India's power grid is extensive and consists of multiple regional grids. Transformers are used to interconnect these grids and facilitate the transfer of electricity from surplus regions to deficit regions. This helps in balancing power supply and demand across the country.

Distribution : Transformers are used extensively in the distribution network to reduce the high-voltage electricity transmitted over long distances to lower-voltage levels suitable for household and industrial consumption. They are an integral part of the distribution infrastructure, ensuring that electricity reaches end-users safely and efficiently.

Efficiency: Transformers are designed to operate with high efficiency, reducing energy losses during power transmission and distribution. This is crucial in a country like India, where energy conservation and reducing transmission losses are essential to meet growing energy demands.

Renewable Energy Integration: India is making significant investments in renewable energy sources such as wind and solar power. Transformers are vital for connecting these intermittent sources to the grid, managing fluctuations in power generation, and ensuring the seamless integration of renewable energy into the existing power infrastructure.

Industrial and Commercial Applications: Transformers are used in various industrial and commercial sectors, including manufacturing, healthcare, telecommunications, and more. They provide the necessary voltage transformation for operating machinery, equipment, and appliances efficiently and safely.

Backup Power Supply: Transformers are used in the establishment of backup power systems, such as diesel generators and uninterruptible power supplies (UPS), which are essential for critical facilities like hospitals, data centers, and telecommunications networks.

Rural Electrification: India has been actively working on rural electrification projects to bring electricity to remote and underserved areas. Transformers are fundamental in these projects as they step down high-voltage electricity from grid substations to low-voltage levels suitable for rural households.

Electrification of Transport: As India explores electrification in the transportation sector, transformers will be needed to support charging infrastructure for electric vehicles, ensuring a reliable and efficient charging process.

Modernization of the Grid: India is gradually modernizing its power grid by implementing smart grid technologies. Transformers equipped with monitoring and control capabilities play a crucial role in these efforts, allowing for real-time monitoring, load balancing, and improved grid reliability.

In summary, electrical transformers are indispensable components of India's electrical infrastructure. They enable efficient power generation, transmission, and distribution, support the integration of renewable energy sources, and play a critical role in ensuring a stable and reliable power supply across the country.

Satish Sinnarkar Editor, IECT

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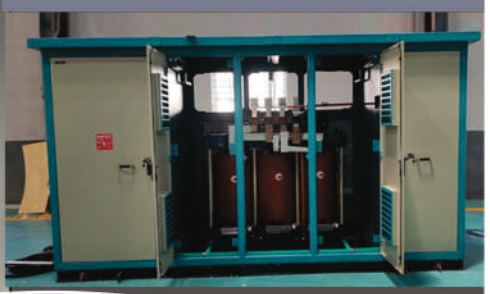

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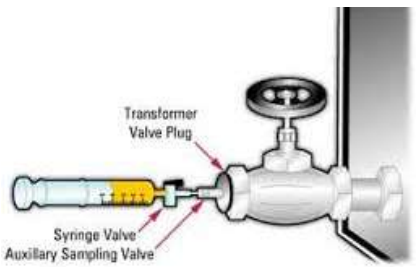
Preventive maintenance for transformers

Preventive maintenance for transformers is crucial to ensure their reliable and efficient operation. Transformers play a vital role in electrical power distribution, and neglecting their maintenance can lead to costly downtime and potential safety hazards. Here are some key preventive maintenance steps for transformers:

1. Visual Inspection:

- Regularly inspect the transformer for signs of oil leaks, corrosion, rust, and physical damage.
- Check for loose or damaged electrical connections and bushings.

2. Oil Analysis:



- Perform routine oil sampling and analysis to monitor the condition of the transformer oil.
- Analyze oil samples for moisture content, acidity, dissolved gas analysis (DGA), and other contaminants.
- Change the transformer oil if it exceeds recommended limits.

3. Temperature Monitoring:

- Install and monitor temperature sensors in critical areas of the transformer.
- Keep a record of temperature trends to identify any unusual patterns or hot spots.

4. Insulation Testing :

- Periodically perform insulation resistance tests (Megger tests) to assess the condition of the transformer's insulation.
- Test bushings and other insulation components for integrity.

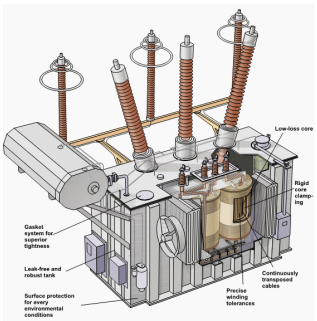
5. Load Monitoring:

- Continuously monitor the transformer's load to ensure it operates within its rated capacity.
- Overloading can lead to overheating and reduced transformer life.

6. Cleaning and Painting:

- Keep the transformer exterior clean to prevent the accumulation of dirt and contaminants.
- Apply protective paint coatings to prevent corrosion.

7. Bushings and Gaskets:



- Inspect and replace damaged bushings and gaskets to prevent oil leaks and maintain insulation integrity.

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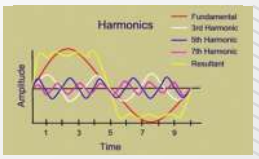

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8. **Cooling System Maintenance:**
   - Maintain cooling systems, such as fans or radiators, to ensure proper heat dissipation.
   - Clean cooling fins and check for clogs or damage.

9. **Conservator and Breather Maintenance:**

   - Inspect the conservator tank and breather system to ensure they are functioning correctly.
   - Replace or refill silica gel or other desiccants as needed.

10. **Tap Changer Maintenance:**
    - If the transformer has a tap changer, inspect and lubricate it as recommended by the manufacturer.
    - Test the tap changer's operation periodically.

11. **Protection and Control Systems:**
    - Verify that protective relays, alarms, and control systems are functioning correctly.
    - Test protection schemes regularly.

12. **Records and Documentation:**
    - Maintain detailed records of all maintenance activities, including inspection results, test data, and maintenance schedules.

13. **Training and Safety:**

   - Ensure that personnel involved in transformer maintenance are properly trained and follow safety protocols.

14. **Spare Parts:**

   - Keep a stock of critical spare parts, such as bushings, gaskets, and oil, on hand for quick replacements.

15. **Professional Inspection:**
    - Periodically hire professional engineers or experts to conduct comprehensive inspections and assessments.

The frequency of these preventive maintenance tasks may vary depending on the transformer's age, operating conditions, and manufacturer's recommendations. Regular maintenance can extend the life of the transformer and minimize the risk of unexpected failures. Always consult the manufacturer's guidelines and local regulations when planning and executing transformer maintenance activities.

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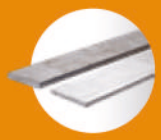
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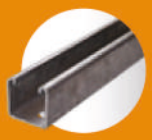
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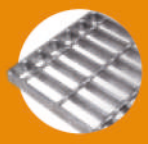
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General Trends and Innovations Emerging in the Transformer Industry

1. **Smart Transformers**: The integration of digital technologies and sensors into transformers was on the rise. Smart transformers can monitor their own condition, provide real-time data, and enable predictive maintenance, improving efficiency and reliability.

2. **Efficiency Improvements**: Manufacturers were working on developing more efficient transformers to reduce energy losses during power transmission. This is crucial for reducing greenhouse gas emissions and improving overall grid performance.

3. **Eco-Friendly Materials**: The industry was exploring eco-friendly materials and insulating fluids to make transformers more environmentally friendly. Efforts were also being made to minimize the use of hazardous materials like PCBs.

4. **Miniaturization**: Miniaturized transformers were gaining attention for applications in renewable energy systems, electric vehicles, and other compact electronic devices.

5. **Grid Integration**: With the increasing adoption of renewable energy sources like solar and wind, there was a focus on transformers designed to integrate these intermittent power sources into the grid seamlessly.

6. **Customization and 3D Printing**: Some manufacturers were experimenting with 3D printing technology to produce custom-designed transformers with unique specifications.

7. **Energy Storage Integration**: The industry was looking into transformers that could efficiently integrate with energy storage systems, such as batteries, to manage power flow and improve grid stability.

8. **AI and Predictive Maintenance**: Artificial intelligence and machine learning were being employed to develop predictive maintenance algorithms that can help utilities and operators detect transformer issues before they lead to failures.

9. **Cybersecurity**: As transformers become more connected through IoT and digital systems, there was growing concern about cybersecurity, and efforts were being made to enhance the security of transformer infrastructure.

10. **Global Electrification**: With the push for global electrification and the expansion of power grids, transformer manufacturers were exploring opportunities in emerging markets and developing countries.

To get the most up-to-date information on the transformer industry, I recommend checking industry news sources, consulting with experts in the field, or exploring recent research publications and reports from transformer manufacturers and industry associations.

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Waste Not: Plastic's New Role in Green Hydrogen Production

Sustainable Energy Solution Meets Plastic Crisis

In an era dominated by urgent calls for renewable energy solutions, scientists have accomplished a groundbreaking feat: producing green hydrogen from discarded plastics, paving the way for a sustainable energy future while tackling the pressing issue of plastic pollution.

Making Energy from Trash

With the environmental threat of waste management and climate change looming, repurposing waste into valuable products is not new. But utilizing it as a source for hydrogen generation is nothing short of revolutionary. Researchers from Rice University have taken the lead in this eco-innovation, transforming plastic waste into hydrogen, a cleaner alternative to conventional fossil fuels.

Historically, conventional methods of hydrogen production, despite yielding a clean energy form, have been flawed, contributing to carbon emissions and often being prohibitively expensive.

A Win-Win Process

This novel approach not only stands out for its low emissions but has the potential to be economically self-sustaining. Kevin Wyss, the study's lead author from Rice University, shed light on the procedure. By repurposing even mixed plastic waste, they managed to obtain both high-yield hydrogen gas and valuable graphene.

Wyss enthused, “Imagine producing clean hydrogen almost for free, if the resultant graphene is sold at merely 5% of its market price!”

When juxtaposed with the traditional green hydrogen production method – derived by splitting water using renewable energy sources – this method presents a stark difference. In 2022, much of the 100 million tons of globally consumed hydrogen was sourced from fossil fuels, resulting in about 12 tons of CO2 for every ton of hydrogen produced.

A Step Toward Net Zero

James Tour, a distinguished professor at Rice, highlighted the urgency of shifting hydrogen production techniques. “As demand for hydrogen is expected to surge in the upcoming decades, we must adapt our methods if we're committed to a net-zero emission target by 2050,” he commented.

The ingenious scientific process involves exposing plastic waste to rapid flash Joule heating, briefly raising the temperature to a whopping 3100 degrees Kelvin. This step not only releases the trapped hydrogen in plastics but also forms graphene, a material renowned for its strength and lightweight properties.

Discovering Hidden Gases

Initial experiments with this method resulted in mysterious volatile gases emanating from the reactor. “We were curious about these gases, presuming they were a mix of hydrocarbons and hydrogen,” Wyss stated. To determine the exact composition, the team obtained specialized equipment. Their efforts paid off when they successfully recovered a significant portion of atomic hydrogen with a remarkable 94% purity.

Wyss continued, “It was a challenging journey to identify and quantify the gases, especially the hydrogen, but it was worth it.”

By implementing advanced techniques, including life-cycle assessment and gas chromatography, Wyss and his team hope their research could provide a dual solution to the environmental challenges of plastic waste and carbon-intensive hydrogen production.

A Glimpse into the Study

The findings of this transformative research were featured in the journal Advanced Materials on September 11.

Study Summary

Hydrogen, a leading candidate for clean energy storage, has a global annual consumption exceeding 90 million tonnes. Most of it is derived from CO2-intensive methods. This research introduces a catalyst-free process converting plastic waste to green hydrogen and high-purity graphene. This innovative method significantly reduces emissions compared to existing production methods, positioning it as a promising, sustainable, and economically beneficial path for hydrogen generation.

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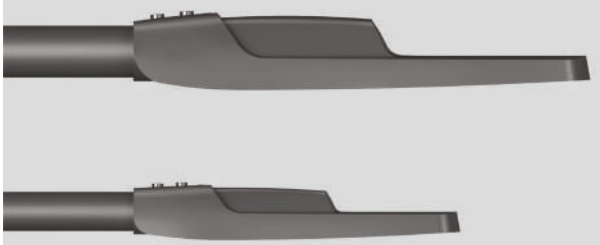

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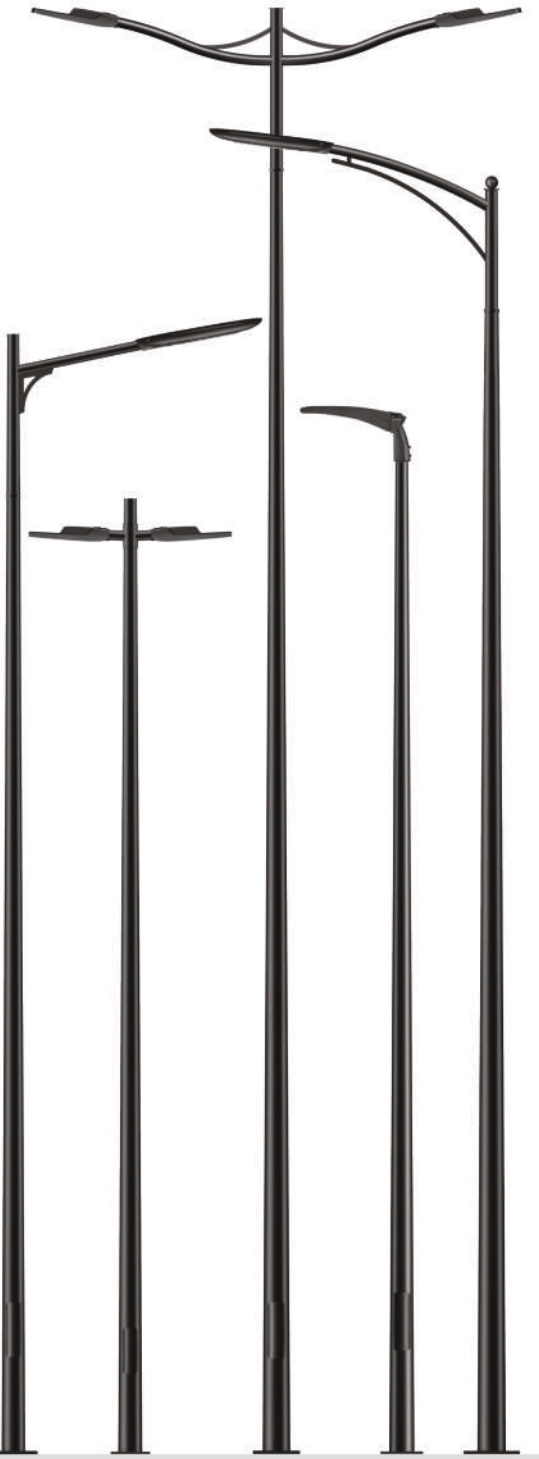

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AI - IN LIGHTING

-Ajit N. Kulkarni
Electrical Consultant

Preface

Three decades before in lighting installation work, electrical contractor was to carry out work with the help of lighting distribution boards, switches, conduits, wiring and light fittings etc. Subsequently, there was introduction of lighting controls with dimming solutions. Generally, it was used where audio video systems were used such as in board rooms or in meeting rooms. In next phase occupancy sensors or lux sensors were introduced. And now home automation or lighting automation started in use. In spite of this, truly at many places still contractors, supervisors or electricians are not exposed to use of automation and still they are ignorant of new technologies which are being used.

They will have to gear up and update their knowledge in technological advancement era. Because now ahead, there will be combination of Artificial Intelligence with lighting systems. This will be sustainable solution and conserve the energy. Such systems will be coming up in industries, commercial complex, residential complex, public places and in many other applications. Let us walk through on this illuminating journey into AI and lighting, where in there will be multifold advantages for users.

What is present lighting

In present lighting system which is widely known to contactors comprises of following-

1) LED lighting fixtures of various types with assembly of electrical component such as conduits, wires, distribution boards, switches etc.

2) Switches can be normal ON/OFF wired or could be wireless.

3) Wiring setup can be single switch or a multi-switch setup.

4) LED lights can have dimmer compatibility for dimming.

5) There could be single or multi zonal lighting.

6) Lighting control can be standard wall switches or remote control or smart switches.

7) Sensors for occupancy, programmed to turn lights on and off automatically based on schedules, motion detection, ambient light levels, circadian cycle, color changing, voice control etc.

Up to above, understanding is generally known to by and large installers. Once existing lighting installation clarity is there then one can better plan transition to smart lighting. This type of lighting offers various benefits which we shall review ahead.

What is advancement in lighting installation

Advancement means progress, improvement, or development in a particular field or feature of technology, knowledge or usage pattern. It typically signifies moving forward and making things better, more efficient, or more sophisticated compared to previous conditions. Let us understand the transitions in sensors and lighting controls into details.

Sensors are now modified as-

1) Light Level Sensing- Sensors use precise lux measurement to calibrate lighting levels, ensure user comfort and adhere to daylight management regulations.

2) Passive Infrared- Method of occupancy detection, enhanced by connectivity, PIR with unwanted triggering.

3) Network Interface- Sensors communicate with each other to measure average light levels across large areas and report occupancy to monitoring and BMS software.

4) Fully Programmable- Sensors are configurable via software, allowing to customize sensors' performance without physical access to the device.

5) Ultrasonic- Active occupancy detection over large areas ensures that the lights stay on even when users are sitting still.

6) IR Receive- Commissioning of sensors from anywhere in sensor range including device selection, network integration,

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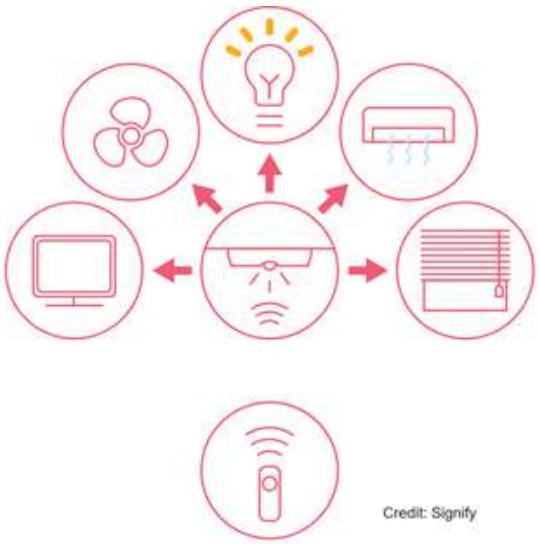

Credit: Signify

In short sensor can control, - Lighting level, day light harvesting, circadian lighting, occupancy, HVAC management, Blinds, TV, Fan, Parking management, meeting rooms, asset management and many other functions.

Lighting Control transition –

1) Analog lighting control- In this there were different group of lighting fixtures which were controlled. So, control was not precise, more cabling was used, more complex to install, maintain etc. There were other issues such as it was not precise control. It was susceptible for power problems. Dimming response was not proper. Color temperature was only one and fixed. If changes to be done then manually rewiring required to be done.

2) Digital lighting control- In this wiring/cabling became simpler and easier to install. Monitoring and troubleshooting became easier. In this accurate dimming and color control could be done. Tunable white, RGB control, circadian rhythmic lighting is possible. Light grouping can be easily reconfigured without not much wiring. Scaling to bigger size is possible. Effectively more comfort, more energy conservation, time and money are saved.

3) Network lighting control- In this light fittings, devices, sensors, digital controllers are connected in network. In this scalability is very high, one control unit for single complex is possible. One can have touch screens, connectivity to different areas, lighting software, BMS compatibility etc. A range of different network gateways enable integration with comprehensive third-party network systems. These devices allow multiple systems to be controlled from a single user interface. The software package enables full commissioning of all devices without the need for additional add-ons. The software is able to display different perspectives of the system, such as an overall network view, individual logical areas and floor plans. Facility engineer can have a clear view of the entire system or selected area which reduces time. Entire data can be monitored by end user.

Knowing the present facts in lighting, let us move ahead towards AI in lighting.

Artificial Intelligent (AI) in Lighting

AI lighting takes intelligence a step further by incorporating artificial intelligence and machine learning algorithms into the lighting system. It will be more intelligent, energy-efficient, and user-friendly. AI lighting systems can make complex decisions and learn from data to optimize lighting conditions. The features of the same will be as -

1) Machine Learning- AI lighting systems can learn user preferences and adapt lighting accordingly over time.

2) Predictive Capabilities- They can predict lighting needs based on historical data and environmental conditions.

3) Integration- AI lighting can integrate with other smart devices and systems to provide a comprehensive smart home or building experience. An AI lighting system in a commercial building might analyze occupancy patterns, weather forecasts, and user feedback to optimize lighting schedules and energy usage while maximizing comfort.

4) Automated Lighting Control- AI algorithms can analyze data from sensors to determine when and how much lighting is needed in a particular area. This enables automated lighting control, ensuring that lights are turned on or off based on real-time occupancy and lighting conditions. This will save more energy.

5) Adaptive Lighting- AI powered lighting systems can adjust the color temperature and brightness of light fixtures based on factors like the time of day, natural light levels, and user

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preferences. This helps create lighting that is more comfortable and beneficial to specific activities, such as reading or relaxation.

6) Energy Optimization- AI can optimize lighting energy consumption by dynamically adjusting lighting levels in response to changing environmental conditions. For example, lights can be dimmed or brightened to maintain a consistent light level while using the least amount of energy.

7) Predictive Maintenance- AI can predict when lighting components, such as lamp source or drivers, are likely to fail based on usage patterns and environmental factors. This enables proactive maintenance, reducing downtime and replacement costs.

8) Personalized Lighting Experiences- Smart lighting systems can use AI to personalize lighting based on individual user preferences. Users can set their preferred lighting scenes, and the system will adjust the lighting accordingly.

9) Voice Control- AI powered lighting systems can be integrated with voice assistants like Amazon Alexa, Google Assistant, or Apple Siri, allowing users to control lights with voice commands.

10) Occupancy Analytics- AI can analyze occupancy data to provide insights into space utilization. This information can be valuable for optimizing lighting layouts and occupancy-based energy management.

11) Security- AI can enhance security by using facial recognition or object detection to identify individuals and respond with appropriate lighting. For example, a smart lighting system can turn on lights when it detects an intruder.

12) Dynamic Signage- AI-driven lighting can be used to create dynamic signage or wayfinding systems. Lights can change colors or patterns to guide people through spaces or convey information.

13) Daylight Harvesting- AI algorithms can adjust artificial lighting levels to complement natural daylight, ensuring that spaces are adequately illuminated while minimizing energy usage.

14) Data Analytics- AI can analyze lighting data in real-time to identify trends, anomalies, and opportunities for further optimization, helping organizations make data-driven decisions.

15) Human Centric Lighting- AI can enable human-centric lighting systems that mimic natural light patterns throughout the day, potentially improving well-being, productivity, and circadian rhythms.

Overall, AI integration in lighting systems will not only enhance energy efficiency but also will improve user comfort, security, and the overall functionality of lighting installations. These intelligent lighting systems can adapt to changing needs and conditions, making them more efficient.

Intelligent lighting components

Intelligent lighting systems consist of various following components that work together to provide advanced lighting control and automation.

1) Smart lamp source- These are lamp source with built-in connectivity, such as Wi-Fi or Zigbee, which allows them to be controlled remotely using a smartphone app or voice commands. Smart lamp often has features like adjustable color temperature and brightness.

2) Smart Switches- Smart switches replaces traditional wall switches and provide smart control of connected light fixtures. They can often be integrated with existing lighting systems and are compatible with voice assistants.

3) Smart Dimmers- These devices allow you to adjust the brightness of your lights. They can be used with both standard and dimmable LED bulbs and can often be controlled remotely.

4) Smart Lighting Controllers- These central devices serve as hubs for managing multiple smart lighting components within a place. They enable centralized control and automation of lighting.

5) Motion Sensors- Sensors can detect movement in a room and trigger the lights to turn on or off automatically.

6) Light Level Sensors- These sensors can measure ambient light levels and can adjust artificial lighting to maintain a consistent level.

7) Occupancy Sensors- These sensors can detect the presence of people in a room and can control lighting based on occupancy. They are often used in spaces for energy savings.

8) Daylight Harvesting Systems- Daylight harvesting systems integrate light level sensors and motorized blinds or shades to optimize natural daylight usage and artificial lighting in commercial buildings.

9) Smart Lighting Software- Apps and software platforms allow users to control and program their

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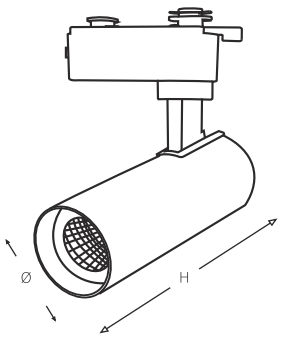
	N	4000K	1050	2100	3150
	W	3000K	1050	2100	3150
SYSTEM EFFICIENCY	Power factor		0.9	0.9	0.9
	Driver Rating		60V DC 150mA	60V DC 300mA	90V DC 300mA
	Surge		2.5KV	2.5KV	2.5KV
	THD		11%	12%	13%
DIMENSIONS (in mm)	Diameter	Ø	49	61	74
	Height	H	128	158	178
	"Adaptor Length"	X	79	79	79

SYSTEM SPECS	Housing	Aluminium
	LED Make	TYF
	Driver Brand	Lafit

BEAM ANGLES: 10W, 20W,30W — 36°

PRODUCT COLOUR: BLACK | WHITE

CRI	TEMP	IP RATING	INPUT
80	0-45°	IP - 20	240VAC



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smart lighting components. They provide features like scheduling, scene creation, app connectivity, cloud computing and remote control.

10) Voice Assistants- Voice assistants like Amazon Alexa, Google Assistant, and Apple Siri can be integrated with smart lighting systems to enable voice control of lights and create voice-activated lighting scenes.

11) Smart Plugs- Smart plugs can be used to make existing lamps or fixtures "smart" by allowing remote control and automation of connected devices.

12) Smart Lighting Bridges or Hubs- Some smart lighting ecosystems require a dedicated bridge or hub to connect and control the various components. These hubs often provide compatibility with multiple protocols and devices.

13) Lighting Fixtures- Some advanced lighting fixtures come with built-in smart capabilities, allowing them to be controlled and programmed as part of a smart lighting system.

14) Lighting Control Panels- In commercial and industrial settings, lighting control panels provide centralized control and monitoring of complex lighting systems.

These intelligent lighting components work together to create a versatile and customizable lighting experience, offering energy savings, convenience, and enhanced functionality for places.

Advantages of intelligent lighting

Intelligent or smart lighting systems offer numerous advantages that can enhance comfort, convenience, energy efficiency. Some of the key benefits of implementing smart lighting are-

1) Energy Efficiency
2) Cost Savings
3) Convenience
4) Customization
5) Automation
6) Improved Security
7) Health and Well
8) Integration
9) Remote Monitoring
10) Environmental Impact
11) Enhanced Ambiance
12) Occupancy Analytics
13) Dynamic Signage
14) AC control
15) Asset management
16) Predictive preventive maintenance
17) Parking management
18) Security

Overall, smart lighting offers a wide range of benefits, from energy savings and convenience to customization and improved well-being. Because of these advantages it can have wide usage.

Where intelligent lighting can be used

Intelligent lighting can be used at many places ranging from residential spaces to commercial, industrial, and public areas. Some common uses can be -

1) Residential places
2) Outdoor Lighting
3) Commercial and Office Environments
4) Conference Rooms
5) Retail Stores
6) Hotels
7) Restaurants
8) Healthcare Facilities
9) Industrial and Manufacturing areas
10) Warehouses
11) Parking Garages
12) Public Areas
13) Street Lighting
14) Parks
15) Public Transportation stops
16) Classrooms and Lecture Halls
17) Libraries
18) Theaters and Auditoriums
19) These are just a few examples of where intelligent lighting can be applied.

Conclusion

In present world of innovation and progress, the convergence of Artificial Intelligence (AI) and lighting will take us towards a future which will be not just brighter but also smarter, more efficient, and tuned to our needs. It will server purpose of sustainability and achieving balance ecology by increasing efficiency and reduction in electrical usage. This can be done right from our homes to our workplaces, streets, manufacturing units, public places etc. With this we can collectively illuminate the path to a more sustainable, comfortable, and harmonious world. scene selection, light level set up, temperature set up, third party integration etc.

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SECI will launch 15-20 GW renewable energy tenders every year for next five years: CMD R P Gupta

These tenders include plain solar, plain wind, hybrid, RTC, on-demand profile, he added New Delhi: State-owned Solar Energy Corporation of India (SECI) is planning to enter the market space for renewable energy and also to come up with new business models to procure clean energy, its Chairman and Managing Director, R P Gupta, told in an exclusive interview. Edited excerpts:

Tell us about SECI's ongoing operations?

We are coming up with new business models for renewable energy procurement... This will be our future course of action. Making storage also part of the overall scenario either as a separate, independent or part of the supply structure is also under plans while still remaining in the role of an intermediary between developers and discoms.

We will be setting up plants of our own where we will be the developer and supply the power to discoms and C&I customers. In the C&I segment, most players are going with the JV route and we will also be going that way. But, for discoms we will set up our own plants.

We are planning to enter the market space for renewable energy. Our business plan for this is ready but we will be moving slowly on that as it is a new segment for us too. We will now be in competition with the developers who set up plants for us to supply energy... Hence, the plan is under deliberations.

We will be initiating the process to develop a renewable energy market similar to conventional energy markets where we will also be the participants.

What are your growth targets, how much capacity addition are you planning in the coming years - their break up and funding targets and how will these funds be raised?

In the next five years, we are targeting 100 GW renewable energy capacity through developers mode. Out of this, about 10 GW will come from our own plants or captive plants.

We will be supplying renewable energy for green hydrogen plants from our own plants of 10 GW or the remaining 80-90 GW capacity plants which will be set up by developers. However, the power through developer mode will not necessarily be restricted to supply to the discoms.

Regarding investments, for 80-90 GW capacity developer mode plants, they will be bringing in the investments. But, the 10 GW plants will require about Rs 55,000 crore to Rs 60,000 crore.

About 75 per cent of it will be through debt and the remaining Rs 10,000 crore to Rs 12,000 crore would be equity or our own investments - in this also, for C&I customers, part of it will be their investments. In this, if we set up captive plants in JV for C&I customers then it will be 25 per cent to 75 per cent investment which would be Rs 3,000 crore to Rs 9,000 crore investment from our side out of this Rs 10,000 crore to Rs 12,000 crore.

Tell us about the upcoming tenders or bids that SECI is planning to come out with in the coming years?

We are planning to come out with tenders to the tune of 15 GW to 20 GW capacity renewable energy tenders every year for the next five years. These will include plain solar, plain wind, hybrid, RTC, on-demand profile. These will exclude green hydrogen capacity, that will be separate.

In green hydrogen, we are not planning to become a purchaser. We will let the developer find their own demand in which the government will help through regulations and policies.

We have not thought of entering into offshore wind tendering yet.

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Emergency lights in trains are mandatory as well

The administration has got serious on safety of rail passengers. Kapurthala has developed five coaches using fire-retardant materials and roof-mounted air conditioning package units with reverse cycle feature for heating arrangements besides automatic smoke detection. As per reports, improved materials have been used for electrical fittings and fixtures such as MCB (Miniature Circuit Breaker), light fittings, terminal boards, connectors.

Fire-retardant material is being used in coach furnishing, while fire extinguishers are now installed in rail coaches for passenger safety. The RCF is the first unit in the Indian Railways to have manufactured a roof-mounted AC unit in 1992. Roof-mounted package units maintain temperature and humidity to the comfort level inside the air-conditioned coaches.

Though, India's rail network is in expansion mode. But notwithstanding the euphoria of upgradation with Vande Bharat adding on, we suffered a setback and witnessed one of the ghastliest train accidents in decades which left 288 passengers dead and over 900 injured in Odisha.

Rail safety was back in discussion but there is a strong possibility that the accident was a case of sabotage and is under investigation. But just as we ensure safety by installing emergency lights, fire extinguishers, sprinklers and photoluminescent signages in homes, shops, malls, hospitals, business institutions and all kinds of enclosed spaces, even trains are equipped with emergency lights mandatorily today.

For example, consider Fig.1, Prolite's Ceiling Mounted Emergency Escape Lights are designed to illuminate passageways comprehensively taking up minimum space and consuming comparatively less power than the conventional varieties of emergency lights or CFL lights. These lights can be of 1 watt and upto 3 Watt capacity lights which are useful in railways, containers or any outdoor commercial establishment. Non photoluminescent signages will disappear when darkness falls but with the support of these emergency lights, people will be able to see and read the signs even in pitch darkness.

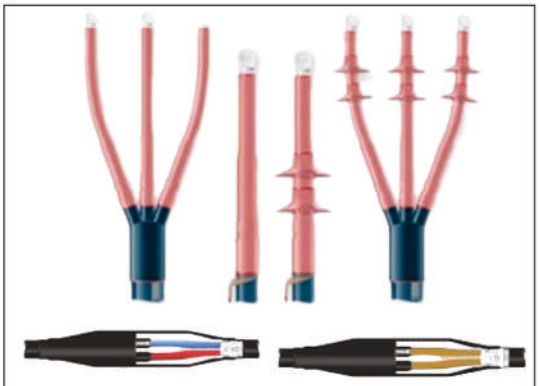
In Fig.2, is the Bulkhead Emergency Light which allows for bright light to cascade into any setting, a condition essential for many industrial sites of both the past and the present. Their durability made them ideal choices for outdoor fittings, within the confines of railways or even within commercial buildings.

Their functionality and durability make them particularly useful within railways while their robust design makes them seamlessly blend into the look of any respective environment. Their design ensures they are tough, withstanding the attacks of dust and water, whilst their ability to provide a vast amount of light make them useful features on the indoor or outdoor walls as a valuable security measure.

The government has planned to run 75 Vande Bharat trains by August 2023. To complete PM Narendra Modi's vision, the government is committed to re-develop railway stations too. Currently, only two Vande Bharat Expresses are operational in India from New Delhi to Varanasi and New Delhi to Katra.

During extreme emergencies such as derailment, collisions, or other the power is likely to fail and put the interiors in pitch darkness in the critical moments. Emergency Light Units then come on to facilitate immediate rescue during such emergencies. It is vital to provide illumination during failure of all other power supplies inside the coach. Vande Bharat trains also have four emergency lights in every coach in case of electric failure.

The culture of safety is welcome in any environment. Be it stagnant as in enclosed spaces or moving as in these coaches, safety is imperative and non-negotiable. That is why the NBC has issued strict guidelines on safety related issues to be observed by builders, developers, planners and architects right from the planning stage till the said construction is erect and active.



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Architectural Lighting

K-LITE INDUSTRIES an ISO company, manufacturing indoor and outdoor luminaires have launched a new series of LED Architectural Lighting. Being the trend setters in outdoor lighting and inspired by the "Make in India" vision, K-LITE, through their innovative outlook, have showcased an all new product portfolio under Architectural Lighting. The application includes Facade Lighting, Pathway Lighting, In-ground Luminaire, Up-down Lighting, Billboard Lighting, Vertical Light Bars, Wall Washers, Area Lighting poles and above all popular sleek polar lighting solutions.

The solutions offered are backed by extensive understanding of illumination in urban spaces and the expertise gained over a period of three decades. The fixture are designed to provide value technology, ideally suited to Indian Conditions. The LEDs used comply to LM 80 testing requirements and from Internationally reputed makes such as Nichia / CREE. The luminaires are RoHS, LM 79 and CE certification compliant. The luminaire efficacy (lumens/ per watt) is much above 100 for all luminaires. Varied optical options for lighting distribution and correlated colour temperature

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India's First UPI ATM Introduced:

A New Era in Digital Banking

India's digital payment landscape reached a new milestone with the launch of the country's first UPI ATM. This groundbreaking development, introduced by Hitachi Payment Services in collaboration with the National Payments Corporation of India (NPCI), is set to revolutionize how individuals access cash.

UPI, or the Unified Payments Interface, has already established itself as the dominant player in the nation's digital transactions, accounting for over 50% of the total digital transaction volume. Now, with the introduction of the UPI ATM, this payment mode is extending its influence into the world of traditional banking.

Sumil Vikamsey, MD and CEO of Cash Business at Hitachi Payment Services, expressed the significance of this innovation, saying, "This novel offering empowers any bank customer to experience the convenience of QR-based UPI cash withdrawals."

The NPCI also weighed in on this groundbreaking development, emphasizing the customer-centric approach of this initiative. According to NPCI, "The launch of the 'UPI ATM' will mark a significant milestone in banking services by seamlessly integrating the convenience and security of UPI into traditional ATMs. This innovative concept is designed to provide quick access to cash even in remote areas of India without the need for a physical card."

So, how does this UPI ATM work, and what sets it apart from cardless cash withdrawals offered by banks?

Seamless and Secure UPI Cash Withdrawals

The UPI-ATM offers a straightforward and secure cash withdrawal process that simplifies how individuals access their funds. Here are the steps to withdraw cash from India's first UPI ATM:

1. Select the Desired Withdrawal Amount: Start by selecting the amount you wish to withdraw.

2. Display of UPI QR Code: The ATM will display a UPI QR code corresponding to the chosen withdrawal amount.

3. Scan and Authorize: Utilize your UPI app to scan the displayed QR code. To authorize the transaction, you'll need to enter your UPI PIN.

4. Collect Your Cash: Once the transaction is authorized, the ATM will dispense your requested cash amount.

What sets the UPI ATM apart from existing cardless cash withdrawal systems is its reliance on QR-based UPI cash withdrawals. While traditional cardless cash withdrawals typically require mobile numbers and OTPs, the UPI-ATM streamlines the process with QR codes. To utilize this innovative ATM, individuals must have a UPI application installed on their Android or iOS devices. The introduction of India's first UPI ATM marks a significant step toward enhancing convenience and accessibility in digital banking. Users with UPI-enabled smartphones can now seamlessly access cash, even in remote areas, without the need for a physical card.

अदानी इलेक्ट्रिसिटी मुंबई टिळक नगर व साकीनाका विभाग

अदानी इलेक्ट्रिसिटी मुंबई टिळक नगर व साकीनाका विभाग यांच्या सोबत इलेक्ट्रिकल कॉन्ट्रॅक्टर असोसिएशन मुंबई सोबत संयुक्त मीटिंगचे आयोजन मंगळवार दिनांक १२/९/२०२३ रोजी सकाळी ११ वाजता आयोजित करण्यात आली होती. सदर मिटींगचे विषय सार्वजनिक गणेश उत्सव मंडळ व विद्युत ठेकेदारांना भेडसावणाऱ्या समस्या याबाबत विचार विनिमय करण्या बाबत अदानी समूहाचे टिळक नगरचे प्रमुख श्री महेश अंधारी व त्यांचे सर्व सहकारी व साकीनाका विभागाचे प्रमुख श्री राजेश नेरुळकर साहेब व त्यांचे सहकारी यांच्या सोबत साधक-बाधक चर्चा झाली सदर मीटिंगसाठी ईसीएमचे संचालक श्री राज शहा, अशोक वंडेकर, अमित ब्रीद, किशोर सुतार, युवराज आमीन, लाल वालेच्या, रियाज अहमद, शिवाजी लिमसे यांच्यासहित अनेक विद्युत ठेकेदार सदर मीटिंगमध्ये उपस्थित होते.

दूरदृष्टीचा नेता

२३ ऑगस्ट २०२३ रोजी आमचे मित्र, इकॅमचे माजी अध्यक्ष व महासचिव, अनेक सामाजिक, सांस्कृतिक व आध्यात्मिक संस्थांचे प्रमुख मार्गदर्शक, हितचिंतक आणि आपल्या परिवाराचे जिवश्च कंठश्च असे आधारस्तंभ श्री सुनिल भुरे यांचे अकस्मात निधन झाले. संबंधित सर्वजण हादरून गेले. कोणाचा विश्वास बसेना. पण विधीलिखित समोर होते. ''जीवन हे क्षणभंगुर आहे'' हे त्रिकालाबाधित सत्य स्वीकारण्याशिवाय दुसरा पर्याय नव्हता. अशा वेळी जे सनातन प्रश्न मानवासमोर असतात, ते उत्तर मागत राहतात. मी कोण?, कुठून आलो?, का आलो? या जगण्याचे प्रयोजन काय? हेच ते प्रश्न !

ज्या माणसांना या प्रश्नांची उत्तरे लक्षात येतात, त्यांचे जीवन इतरांपेक्षा वेगळ्या दिशेने वाटचाल करते. त्यांचे लक्ष्य असते, ''आत्मोद्धार आणि लोककल्याण!'' श्री सुनिल भुरे हे या मार्गावर चालणारे एक अजोड व्यक्तिमत्व होते.

अगदी जवळच्या माणसास नीट ओळखणे बहुदा कोणाला जमत नाही. तो गेल्यानंतर मात्र त्याचे माहात्म्य दिसू लागते हा मानव जीवनाचा अलिखित नियम आहे. तसेच श्री सुनिल भुरे यांच्या बाबतीत म्हणता येईल. स्वकष्टाने केलेला स्वत:चा उद्धार, मूकपणे केलेली कुटुंबाची पाठराखण, ज्या समाजाने भरभरून दिले त्याची जाणीव ठेऊन त्याची परतफेड करण्याची तळमळ आणि केलेले कर्म परमेश्वरास अर्पण करून नामानिराळे राहण्याचे आध्यात्मिक बळ असे आपण श्री सुनिल भुरे यांचे वर्णन करू शकतो. त्यांच्या निधनाने इकॅम संघटनेने एक सक्षम, दूरदृष्टीचा नेता गमावला आहे. आज संघटना शताब्दी वर्षाच्या उंबरठ्यावर असताना असा एक हिरा गळून पडणे ही फार मोठी हानी आहे.श्री सुनिल यांच्या निधनानिमित्त नाशिक व मुंबई येथे ज्या प्रार्थना सभा झाल्या त्यात हीच भावना व्यक्त झाली. केवळ एक श्रद्धांजली वाहून आपण त्यांना विसरून न जाता, त्यांनी दूरदृष्टी दाखवून इकॅमबाबत जे स्वप्न पाहिले होते, ते जागृत ठेवावे आणि ही संघटना देश–विदेश व्यापी कशी होईल यासाठी सर्वतोपरि सामूहिक प्रयत्न करून त्यांची स्मृती कायम ठेवावी, अशी भावना व्यक्त करून माझ्यातर्फे, मासिकातर्फे त्यांना आदरांजलि वाहतो.

सतीश सिन्नरकर, संपादक

इकॅम संचालक मंडळाचा शोकप्रस्ताव

इकॅमतर्फे भावपूर्ण श्रद्धांजली

इकॅम (ECAM) संस्थेचे अध्यक्ष श्री सुनील भुरे यांचे नुकतेच निधन झाले. त्याबद्दल इकॅम संस्थेचे सदस्य म्हणून आम्हाला अतीव दु:ख होत आहे. श्री भुरे यांच्या निधनामुळे संस्थेचे कधीही भरून न येणारे नुकसान झाले आहे. गेली अनेक वर्षे ते इकॅम या संस्थेसाठी काम करत होते. त्यांनी संस्थेसाठी केलेल्या कामांबद्दल आणि संस्थेमध्ये असलेल्या त्यांच्या योगदानाबद्दल ते आमच्या सदैव स्मरणात राहतील.

८ सप्टेंबर २०२३ रोजी श्री सुनील भुरे यांच्या स्मरणार्थ बाबुभाई चिनॉय कमिटी हॉलमध्ये शोकसभा आयोजित करण्यात आली. श्री सुनील भुरे यांच्या आकस्मिक निधनामुळे आम्हा सर्वांनाच अतीव दु:ख होत आहे. श्री सुनील भुरे यांच्या कुटुंबियांच्या दु:खात आम्ही सर्व जण सहभागी आहोत. हे दु:ख पचवण्याची ताकद त्यांच्या कुटुंबियांना मिळावी त्याचप्रमाणे श्री सुनील भुरे यांच्या आत्म्यास शांती लाभावी हीच ईश्वरचरणी.

प्रार्थना.

‘कधीही एकटे पडलात म्हणून रडत बसू नका किंवा हिम्मत हारू नका,

सायली सुनिल भुरे (कन्या) आणि सर्वेश सुनिल भुरे (पुत्र)

आमच्या बाबांविषयी बोलायला सुरुवात कुठून करावी तेच समजतं नाही. त्यांच्या व्यक्तिमत्वाबद्दल बोलायचं म्हणजे शब्दकोशातील शब्द आणि गुगल मजकूर मर्यादा दोन्हीही संपेल. आमच्यासाठी ते कायमच आमचा मान, स्वाभिमान, अभिमान राहिले आहेत. आज त्यांच्यामुळेच आम्ही ताठ मानेने उभे आहोत. ते कधी कडक, रागीट बाप झालेच नाहीत. बाबा कायमच आमचे मित्र, मार्गदर्शक, गुरूच राहिले. त्यांचं आणि आमचं नातं कधी शब्दात मांडता येण्यासारख नाही. आमचं नातं फक्त वडील-मुलांच नाही, ते वडील म्हणून प्रेम करायचे, शिस्त लावायचे, पण त्याच बरोबर प्रत्येक वेळी कठीण प्रसंगात आमचे मार्गदर्शक म्हणून खंबीरपणे उभे राहायचे, तर कधी माझी आई होऊन संस्काराची शिदोरी ही द्यायचे, तर कधी आमचा मित्र होऊन हिम्मत द्यायचे, मला आजही आठवतं ते मला एकदा म्हणाले होते, ‘‘कधीही एकटे पडलात म्हणून रडत बसू नका किंवा हिम्मत हारू नका, हे लक्षात ठेवा की गरूड हा एकटा राहूनच उंच भरारी घेतो किंवा वाघ पण एकटा असला तरी मोठी झेप घेतो. तुम्ही पण उंच भरारी घ्या’’ हे शब्द आम्ही कधीच नाही विसरणार.

आमचे बाबा म्हणजे ज्ञानाचा अथांग समुद्र,

कोणालाही आपल्या छायेखाली घेणारा वटवृक्ष,

आमच्या तिघांसाठी संकटाला सामोरी जाणारी भक्कम तटबंदी,

आमच्या पाठीशी भक्कम उभा असलेला निश्चल हिमालय,

आपल्या यशस्वी आणि खळखळून वाहणाऱ्या प्रवासात सगळ्यांना सामावून घेणारा झरा,

ज्याच्या फक्त भेटीने आपलं मन शहारतं अशी मंद वाऱ्याची झुळूक.

बाबांचं करावं तेव्हढ कौतुक आणि करावं तेव्हढ वर्णन कमीच आहे.

आम्हाला शक्य तेवढ्या गोष्टी त्यांनी शिकवल्या. आज त्यांच्यामुळेच आम्ही तिघे जवळजवळ संपूर्ण भारत फिरू शकलो.

त्यांनी आम्हाला कधीच बंदिस्त ठेवले नाही, कायम आम्हाला गरुडाप्रमाणे उंच भरारी घ्यायची प्रेरणा दिली. त्यांनी आम्हाला सगळ्या प्रकारचे शिष्टाचार शिकवले. आम्ही कुठेही कमी पडू नये यासाठी ते कायम प्रयत्न करायचे. आमच्यासाठी त्यांनी अतोनात कष्ट घेतले

आहेत, कधीही आम्हाला काहीच कमी पडू दिलं नाही आणि तरीही त्यांनी त्या गोष्टीचा कधीच बाऊ केला नाही.

स्वतःचा विचार न करता कायम फक्त दुसऱ्यांचा विचार करायचा हेच त्यांचं तत्व.

त्यांची २०१८ साली राष्ट्रपती कोविंद यांच्यासोबत व्हिएतनाम बिझनेस टूर मध्ये निवड झाली होती. या गोष्टीचं ही त्यांना फार अप्रूप नाही.

त्यांना स्वतःच्या कामगिरीचा कधीही अभिमान नाही किंवा ते एव्हढी कर्तव्य पार पाडतात याच कौतुकही नाही.

जे आहे त्यात आनंद मानायचा हे कायम शिकवलं त्यांनी.

कधीही कसला हव्यास करायचा नाही, सगळ्या गोष्टींकडे सकारात्मक दृष्टीने बघायचं, जिद्द-चिकाटी ठेवायची, संकटना खंबीरपणे तोंड द्यायचं हेच त्यांनी आम्हाला कायम शिकवलं.

आज आमच्या आयुष्यातली त्यांची जागा कोणीच घेऊ शकत नाही.

पण आज आम्ही अशा व्यक्तीची मुले आहोत, जी व्यक्ती इतरांसाठी सुध्दा आदर्श आहे, या गोष्टीचा आम्हाला कायम अभिमान राहील...

अत्यन्त धक्कादायक बातमी, एक चांगला मित्र गमावला. मृत आत्म्यास शांती लाभो हीच ईश्वरचरणी प्रार्थना

– वामन भुरे

Shocking, sudden and tragic untimely loss. Condolences and sympathies to the bereaved family members. May they bear his sudden departure with forbearance and equanimity. May his soul attain sadgati.

- Sailesh Doctor

अतिशय दुःखद घटना आहे खुप चांगले आणि मनमिळाऊ व्यक्तिमत्त्व होते भुरे साहेब त्याच्याकडून संघटनेबाबतीत खुप काही शिकायला मिळाले. ईश्वर भुरे साहेबांच्या आत्म्यास शांती देवो

– अर्जुन ससे

अतिशय दुर्दैवी घटना संघटनेची मोठी हानी आज झाली.मृतात्म्यास चिरशांती मिळो आणि त्यांचे कुटुंबीयांना यातून सावरण्याची ताकद परमेश्वर त्यांना देओ. भावपूर्ण श्रद्धांजली. **– बाळासाहेब कदम**

सुनील भुरे यांचे आणि माझे अतिशय जिव्हाळ्याचे संबंध होते. सुनील भुरे अतिशय संतुलित विचारसरणीचे होते. आमची बऱ्याच वेळेला वेगवेगळ्या विषयावर चर्चा व्हायची. फार वाईट झालं. सर्वांना बरोबर घेऊन जाणारे सुनील भुरे आज आपल्यात नाहीत हे खरं वाटत नाही. त्यांच्या आत्म्यास सदगती मिळो हीच ईश्वरचरणी प्रार्थना!

– राजीव जतकर

अत्यंत धक्कादायक घटना, माझे व आपले मार्गदर्शक,गुरुवर्य, हुशार व्यक्तिमत्व,आवडते काका, श्री. सुनिल भुरे यांना भावपुर्ण श्रद्धांजली

– सचिन फरताडे

आपले माजी अध्यक्ष सुनील भुरे याना आज रोजी देवाज्ञा झाली ईश्वर त्यांच्या आत्म्यास शांती देवो

– देवांग ठाकुर

Very shocking news. Our heartfelt condolences to the family, may Lord give them strength to overcome the grief caused due to sudden demise. Om Shanti!

- Ulhas Vajre

अत्यंत धक्कादायक घटना. आपले सर्वांचे मार्गदर्शक श्री. सुनिल भुरे सर यांना भावपुर्ण श्रद्धांजली

– मारूती माळी

संघटनेचा चांगला विश्वासू मित्र हरपला विश्वास बसत नाही परमेशवर त्यांचा आत्म्यास शांती मिळो हीच प्रार्थना

– दिलीप बडगुजर

माझे अत्यंत जवळचे मित्र, इकॅम मधील सहकारी, इकॅम शताब्दीचे भव्य स्वप्न पाहाणारा माजी अध्यक्ष यांच्या आकस्मिक निधनाने अत्यंत दुःख झाले. **– अमरनाथ पाटील**

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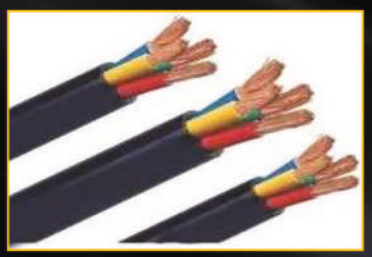


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– सौ. स्वाती गानू

स्वर्गीय सुनिल वसंतराव भुरे यांच्या व्यक्तिगत आयुष्याबद्दल सांगायचे म्हणजे ते अत्यंत धाडशी आणि हुशार होते. जळगाव जिल्ह्यातील पाचोरा तालुक्यातील लासगावं हे त्यांचे मूळ गाव. या छोट्याशा खेड्यातच त्यांचे बालपण व प्राथमिक शिक्षण झाले. आई व वडिलांकडून त्यांना उत्तम संस्कार मिळाले. त्यांचे वडील सामाजिक कार्यात सक्रिय होते. त्यामुळेच त्यांना वडिलांकडून सामाजिक तर आईकडून आध्यात्मिक संस्काराचे बाळकडू मिळाले.

ते शिक्षण क्षेत्रात देखील उल्लेखनीय कामगिरी करत होते. इयत्ता चौथी व सातवीमधे असतांना स्कॉलरशिप मिळवून जिल्ह्यात त्यांनी सहावा क्रमांक पटकावला होता. त्यावेळी त्यांचा सत्कार आमदारांच्या हस्ते झाला होता. काही आर्थिक अडचणींमुळे ते उच्च शिक्षण पूर्ण करू शकले नाही. परंतु याची तमा न बाळगता आणि त्या परिस्थितीवर मात करून, आपल्या हुशारीच्या बळावर त्यांनी व्यवसायाचा मोठा डोलारा उभा केला.

या व्यवसायात येण्याचे मुख्य कारण म्हणजे त्यांचे मेहुणे '**शाम काण्णव**'. त्यांच्या कंपनीमधे काम करूनच त्यांना या व्यवसायाचा व फिल्ड वर्कचा अनुभव मिळाला.

त्यांनी स्वतःच्या व्यवसायाची (Trimurty Engineers India) सुरुवात देखील शाम काण्णव यांच्या मार्गदर्शनाखाली केली. परंतु स्वतःच्या हुशारी, बुध्दिमत्ता, धाडसीवृत्ती, प्रामाणिकपणा, सकारात्मक दृष्टिकोन, सगळ्यांना बरोबर घेऊन पुढे जाणे व अतोनात कष्ट करण्याची तयारी या आणि अशाच काही अंगभूत असणाऱ्या गुणांमुळे ते एवढे मोठे आणि यशस्वी व्यावसायिक होऊ शकले.

त्यांच्या इतर आवडींबद्दल बोलायचे म्हणजे त्यांना वाचनाची अत्यंत आवड होती. सगळ्या क्षेत्रातील पुस्तकांचे वाचन ते आवडीने करीत. परंतु समाजकारण व आध्यात्म या विषयांवर त्यांचे विशेष प्रेम. स्वामी विवेकानंदांच्या विचारांचा त्यांच्यावर विशेष पगडा होता. तसेच त्यांना कुटुंबातील लोकांबरोबर बाहेरगावी फिरणे, त्यांच्याशी गप्पा मारणे, त्यांच्यासोबत वेळ घालवणे व मित्रांबरोबर गप्पा – मजा करणे यातही ते आनंदाने सहभागी होत असत.

आपण या समाजाचे काही देणे लागतो या विचारांवर ठाम असल्याने व समाजावर प्रेम असल्याने ते कायम समाजकार्यात अग्रेसर होते. त्यांनी स्वामी विवेकानंद केंद्र, कण्व विकास, लोकहितवादी मंडळ तसेच त्यांच्या व्यवसायाच्या निगडीत संस्थांमधे आपले काम शेवटपर्यंत चालू ठेवले. तसेच मुळात आध्यात्मिकवृत्ती असल्याने तशाच काही संस्थांचे देखील त्यांनी काम केले. स्वतःची अत्यंत हुशारी, जिद्द, प्रामाणिकपणा, सचोटी यावर त्यांनी आपले ध्येय साध्य केले. व्यवसायात यशस्वी होत असतांना कौटुंबिक आणि सामाजिक बांधिलकी त्यांनी जोपासली. मुळातच समोर येईल त्याला मदत करत राहणे हा स्वभाव असल्याने कुटुंबात किंवा बाहेर कोणालाही काहीही गरज असल्यास ते स्वत:चा स्वार्थ न बघता कायम मदतीसाठी सगळ्यात पुढे येत. तसेच कुणाच्याही बाबतीतले कर्तव्य त्यांनी कुठलाही भेदभाव न करता कायम पूर्ण केले. आपले कार्य सचोटीने आणि प्रामाणिकपणे करणे, आपल्या हुशारीने आणि जिद्दीने व्यवसायात यश मिळवणे व त्यातून रोजगार निर्माण करणे हे एक देशकार्यच आहे.

अशा या प्रभावी व सर्वगुणसंपन्न व्यक्तिमत्त्वाच्या माझ्या प्रिय मामास भावपूर्ण श्रध्दांजली!

Condolence Message from ECAM Board of Directors

We, the members of Ecam, do hereby express our grief and our loss at the sad and sudden passing away of our immediate past president Shri Sunil Bhure. We will always remember him with admiration and respect for the services that he has rendered to Ecam. At this condolence meeting held in the memory of Shri Sunil Bhure at Babubhai Chinoy committee room on 8th September 2023.

We hereby unanimously resolve and place on record our deep sense of loss and sorrow at the passing away of our respected, honoured and loved Shri Sunil Bhure. Our deepest condolences to the bereaved family members and we pray that the All Mighty bestow upon them forbearance to bear this irreparable loss. We pray that his soul may attain Sad Gati.

व्यवसायातील उत्कर्षाची क्षणचित्रे!

मुंबईमध्ये झालेली प्रार्थना सभा




दिनांक ८ सप्टेंबर २०२३ रोजी मुंबईच्या चर्चगेट येथील इंडियन मर्चन्ट चेंबर्सच्या चिनॉय सभागृहामध्ये स्व. सुनिल भुरे यांच्या निधनानिमित्त एक प्रार्थना सभा झाली. इकॅमचे अनेक सभासद या सभेस आवर्जून उपस्थित होते. या सभेत सर्वश्री शैलेश डॉक्टर, चंद्रकांत ब्रीद, अशोक वंडेकर, निलेश तिवरामकर, वामन भुरे, माधव गद्रे, पूरण सागर, सचिन फरताडे, पंकज मुनी, दिलीप बडगुजर, कमलेश शाह, तुषार जंबुसरिया, गोपाळकुमार झा अशा आजी व माजी प्रमुख संचालकांनी आपली भावपूर्ण श्रद्धांजली वाहिली. या सभेचे संचालन श्री सतीश सिन्नरकर यांनी केले.

नाशिकमध्ये झालेली प्रार्थना सभा

दिनांक ५ सप्टेंबर २०२३ रोजी नाशिक येथे झालेल्या प्रार्थना सभेत इकॅमचे विविध रिजनचे संचालक, नाशिकमधील सामाजिक व धार्मिक संस्थांचे पदाधिकारी व सर्व भुरे कुटुंबिय यांच्या उपस्थितीत भावपूर्ण श्रद्धांजली अर्पण करण्यात आली. स्व. सुनिल भुरे यांच्या नावे दरवर्षी पुरस्कार देण्याची घोषणा इकॅमचे अध्यक्ष श्री वामन भुरे यांनी केली. पसायदान म्हणून या सभेची सांगता झाली.

Published By Campaign masters

Adani Wind's 5.2 MW wind turbine enlisted in the MNRE RLMM

Adani Wind, the wind energy solutions division of Adani New Industries Limited (ANIL), has announced that its 5.2 MW wind turbine generator (WTG) is now commercially available, as it has been enlisted in the revised list of models and manufacturers (RLMM) by the Ministry of New and Renewable Energy (MNRE).

This WTG is the highest-capacity onshore wind turbine in India and one of the most powerful worldwide, featuring a 160-meter rotor diameter and 200-meter tip height. It incorporates German technology from W2E (Wind to Energy) and holds certification from WindGuard certification GmbH, an independent wind turbine certification body.

Juniper Green Energy secures USD350 million from AT Capital Group and Vitol

Juniper Green Energy has secured USD350 million dollars from AT Capital Group and Vitol to assist in its operational capacity expansion.

After committing USD200 million initially, AT Capital Group and Vitol have increased their investment to USD350 million after two years. At present, Juniper have an operational portfolio of around 800 MW, with 435 MW capacity of projects underway and a development pipeline of over 3 GW across solar, wind and hybrid power projects.

Teledyne FLIR Expands Ex Pro-Series Thermography Cameras for Quick and Effective Inspections

New FLIR E5 Pro and E6 Pro join the E8 Pro Providing Point-and-Shoot, Focus-Free Thermal Imaging Capture with FLIR Ignite™ Cloud Connectivity

Sept. 19, 2023 – GOLETA, Calif. – Teledyne FLIR, part of Teledyne Technologies Incorporated, today announced the focus-free FLIR E5 Pro and FLIR E6 Pro cameras, providing a larger 3.5-inch touchscreen display along with access to FLIR Ignite Cloud connectivity within the same point-and-shoot, pistol-grip form factor as legacy Ex-Series thermal cameras. The versatile cameras are designed primarily for close-up, professional-grade mechanical, building, and electrical thermal inspection scenarios. These include detecting water intrusion, air leaks, electrical connections, temperature differentials between equipment, and impending equipment failure.

Through a built-in touchscreen, FLIR Ex Pro users can share captured images with colleagues, partners, and clients over Wi-Fi via the FLIR Ignite Cloud software. FLIR provides 1GB of free storage, with the option to purchase additional annual storage subscriptions for heavy users. The FLIR Ignite Cloud can be accessed anywhere from a wide variety of mobile devices, web browsers, or PC desktops, eliminating the need to carry extra USB flash drives, card storage, or cables. Images can be reviewed, edited, analyzed, and shared as files or within quick reports. Files can be synchronized with FLIR Thermal Studio software for situations requiring more advanced editing and reporting capabilities.

"Effective condition monitoring programs today require connected, cloud-enabled thermal imaging devices, such as the Ex Pro-Series, that empower inspectors to share and analyze data in real-time quickly and efficiently," said Rob Milner, global business development director, Teledyne FLIR. "Not only does this help inspectors gain a better understanding of and provide a more comprehensive view of potential equipment failure, but it also enables organizations to more accurately predict maintenance requirements grounded in easily accessible data and analysis through FLIR Ignite Cloud and FLIR Thermal Studio."

The FLIR Ex Pro-Series features improved 640 × 480 screen resolution, providing greater visual detail when paired with the respective 240 × 180 thermal resolution of the FLIR E6 Pro and the 180 × 120 thermal resolution of the FLIR E5 Pro. The Ex Pro-Series cameras also feature built-in 5MP digital cameras and LED lamps to help users better understand their inspection area and capture visual details in low light. With FLIR-patented Multi-Spectral Dynamic Imaging (MSX®) capability, which overlays the edge detail of the visible camera upon the thermal image, users experience greater detail and contextual awareness, even in low light, without sacrificing any thermal data. Users can also leverage new on-screen annotations to highlight key findings.

To handle the rigors of outdoor and industrial environments, the entire line of Ex Pro cameras are drop-tested up to two meters (6.6 ft). The ruggedized form factor also includes an IP54 rating, 25G-shock, and 2G vibration test ratings along with a built-in lens cap for added protection.

The Ex Pro-Series cameras also feature four hours of continuous operation on one battery, which can be quickly swapped out and recharged for all-day use.

Along with the previously announced FLIR E8 Pro, the FLIR E5 Pro and E6 Pro are available for purchase worldwide from Teledyne FLIR and its authorized dealers. Each purchase includes a removable and rechargeable battery, a hard-carrying case, a power supply, FLIR Thermal Studio starter software, and printed documentation. To learn more or to purchase, visit www.flir.in/ex-pro.

About Teledyne FLIR

Teledyne FLIR, a Teledyne Technologies company, is a world leader in intelligent sensing solutions for defense and industrial applications with approximately 4,000 employees worldwide. Founded in 1978, the company creates advanced technologies to help professionals make better, faster decisions that save lives and livelihoods. For more information, please visit www.teledyneflir.in or follow @flir.

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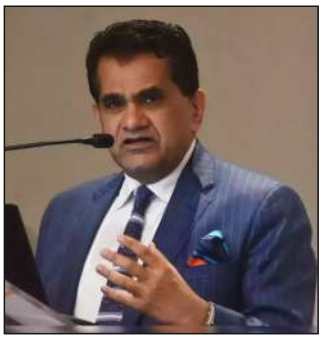
ACMA Convention: Amitabh Kant pushes for local production of batte green hydrogen



Kant said there is a massive opportunity for India to become the champion of electric (EV) manufacturing. Two-wheelers, three-wheelers and four-wheelers will all be batte driven and we need to create a battery manufacturing environment in India. Accordin him, the long distance transportation of trucks and buses will have a huge componen green hydrogen in the long term and India can be the best entrepreneur in the world produce green hydrogen

New Delhi: We are the champion of the commercial two-wheelers, three-wheelers, and many other areas, and we export to the world, but the market is shifting. The world is going electric – China has demonstrated it and "India has to go electric", said Amitabh Kant, India's G20 Sherpa. No country in the world has grown on the back of its services sector. Growth of the manufacturing sector is critical for India's economy to post strong growth. Two-wheelers, three-wheelers and four-wheelers will all be battery driven and we need to create a battery manufacturing environment in India, he said at the 63rd Automotive Component

According to him, the long distance transportation of trucks and buses will have a huge component of green hydrogen in the long term. “We need to replace coal with green hydrogen.” The only other country in the world which has similar climatic conditions as India is probably Saudi Arabia, but India's conditions are top class and we can be the best entrepreneurs in the world to produce green hydrogen, he said. “The challenge is that today green hydrogen is about USD 4.5 per kg. With the size of scale, we should be able to bring it down to USD 2.5 per kg and even USD 1 per kg by 2030,” he said.

Kant added that India would also need a technological "pole vaulting to penetrate global markets". He said that in the immediate run, we will have to go electric in all the segments and this will also require a huge amount of going digital. "Those who do not go electric will lose the competitive edge, will lose market share and will hugely lose out in the marketplace,” he reiterated. On Sunday, India concluded the G20 Summit in New Delhi. In line with that, the G20 Sherpa noted that after all the negotiation of the summit on green development pact, one thing is clear that there will be a huge imperative of global climate change. The world will push us and it is necessary not merely for the world, but for ourselves to do it.

“It's imperative for India to push for climate action and lead the initiative to retain its export markets,” he said. Kant stated that the green development pact, part of the G20 declaration adopted by leaders, has offered a great opportunity for the Indian automotive and components sector to become the global leader in electric and sustainable mobility.

Spain's Endurance to produce lithiu batteries at Mexico auto hub

The company plans to begin production in March 2024 for the Mexico market, with th of reaching U.S. clients in the coming years, said Francisco Molla, Endurance's Mexico in an interview.

Spanish battery maker Endurance Motive will start production in the central Mexican state of Puebla next year, becoming one of the first firms to assemble lithium batteries for vehicles in the country, an executive said on Tuesday. Endurance assembles lithium iron phosphate batteries for use in boats, last-mile delivery vehicles and industrial equipment such as forklifts and small tractors. The company plans to begin production in March 2024 for the Mexico market, with the goal of reaching U.S. clients in the coming years, said Francisco Molla, Endurance's Mexico director, in an interview.

He declined to say how much was being invested by Endurance, which he said was founded six years ago and is still small. Mexico has attracted more investment in the electric mobility sector as automakers shift away from gas-powered vehicles, but battery makers have yet to gain a foothold. Molla said the substantial investment and technical expertise needed for battery assembly had created high barriers for companies to begin producing in Mexico. However, growing demand was beginning to justify the high costs. "I'm not going to say it's mainstream, but now it's taking off, there's no going back," he said.

Production of the first sof advanced chemistry cell batteries in India is likely to commence by January 2024, Union Minister Mahindra Nath Pandey

The minister said the government has been coming up with various policies like PLI and FAME (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) .. to support the automobile industry. Production of the first sof advanced chemistry cell batteries in India is likely to commence by January 2024, Union Minister Mahindra Nath Pandey said on Tuesday. In May 2021, the government approved the PLI (Production Linked Incentives) scheme for manufacturing ACC (Advanced Chemistry Cell) batteries at an estimated outlay of INR 18,100 crore.

ACCs are the new generation advanced energy storage technologies that can store electric energy, either as electrochemical or chemical energy and convert it back to electric energy as and when required.

"In December this year or by January next year, we will see the start of the manufacturing of the ACC batteries in the country," the Union Minister of Heavy Industries said.

Pandey was speaking at the 63rd annual convention of the auto industry body SIAM here.

All the demand for the ACCs is currently being met through imports in India.

The minister said the government has been coming up with various policies like PLI and FAME (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) to support the automobile industry.

He noted that the 25,938 crore PLI scheme for the auto sector has been received well by the industry.

Pandey said that after consulting with the industry, the government has extended the scheme by one year.

He said the government has added two more agencies for testing of vehicles and components -- the Global Automotive Research Centre (GARC) in Chennai and National Automotive Test Tracks (NATRAX) in Madhya Pradesh.

As of now the tests are conducted only at the Automotive Research Association of India (ARAI), Pune, and International Centre for Automotive Technology (iCAT), Manesar (Haryana).

Earlier speaking at the event, SIAM President Vinod Aggarwal said the domestic auto industry was growing, though there was some stress at the entry-level two-wheelers and cars.

"The industry size today is INR 12.46 lakh crore, which was two years back stood at INR 7.5 lakh crore. This includes exports worth INR 3 lakh crore," he said.

If the industry is able to resolve some of the entry-level problems, the growth would be much better, Aggarwal said.

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TPREL signs PDA with Xpro for setting up 3.125 MW AC group captive solar plant

Tata Power Renewable Energy Limited (TPREL) has signed a power delivery agreement (PDA) with Xpro India Limited, through a special purpose vehicle (SPV), for the development of a 3.125 MW AC group captive solar plant.

The SPV will develop, operate, and maintain this captive solar power facility**.** The plant is expected to produce around 7.13 million units of electricity annually and will support the use of renewable energy for Xpro India's polymer processing business. About 161 million units of electricity will be generated during the agreement term of 25 years and will mitigate approximately 51,660 tonnes of carbon dioxide emissions.

Serentica secures Rs 26 billion funding from PFC for its renewable energy projects

Serentica Renewables has achieved financial closure for its upcoming hybrid renewable energy projects in Karnataka.

Notably, the company has secured Rs 26 billion in debt financing from Power Finance Corporation Limited (PFC). To ensure the round-the-clock green energy demand, Serentica will install a total of 4 GW of renewable energy capacity across the nation. Specifically, within the state of Karnataka, the company is currently in the process of establishing 400 MW of wind and solar energy capacity.

Green Hydrogen : Future of Energy

Green Hydrogen is gaining significant attention as a potential key player in the transition to a more sustainable and low-carbon energy future. Green hydrogen is produced using renewable energy sources, typically through a process called electrolysis, where water is split into hydrogen and oxygen using electricity. The key driver for its growth is the increasing global focus on decarbonizing various sectors of the economy, including transportation, industry, and energy production.

Here are some potential developments and trends that could shape the future of green hydrogen beyond 2021:

1. **Cost Reduction**: One of the primary challenges facing green hydrogen production has been the cost. As renewable energy sources like solar and wind become more cost-effective, the cost of green hydrogen production is expected to decrease, making it more competitive with other forms of hydrogen production.

2. **Scaling Up Production**: Investments in scaling up green hydrogen production capacity are likely to increase. Governments and private companies are expected to invest in large-scale electrolysis facilities to produce green hydrogen efficiently and in greater quantities.

3. **Hydrogen Infrastructure**: The development of a robust hydrogen infrastructure, including storage, transportation, and distribution networks, will be critical for the widespread adoption of green hydrogen. Governments and industry stakeholders may collaborate to create such infrastructure.

4. **Integration with Renewable Energy**: Green hydrogen production can help balance the intermittent nature of renewable energy sources by storing excess energy when supply is abundant and releasing it when needed. This integration is expected to increase as renewable energy capacity grows.

5. **Industrial Applications**: Green hydrogen is likely to find applications in various industries, such as steel, chemicals, and heavy transportation, where decarbonization is challenging using other methods. Policies and incentives promoting the use of green hydrogen in these sectors may be introduced.

6. **International Collaboration**: The international hydrogen market may see increased collaboration and standardization efforts. Agreements and partnerships between countries may be established to facilitate the trade and use of green hydrogen on a global scale.

7. **Technological Advancements**: Research and development efforts in hydrogen production and storage technologies are expected to continue, leading to improvements in efficiency and cost-effectiveness.

8. **Policy Support**: Government policies and incentives, such as carbon pricing, tax credits, and subsidies, will play a significant role in promoting the growth of green hydrogen. Policymakers may introduce measures to encourage the use of green hydrogen and support the development of the hydrogen economy.

9. **Consumer Awareness**: As awareness of climate change and the need for sustainable energy solutions grows, there may be increased demand for products and services that use green hydrogen, such as fuel cell vehicles.

It's important to note that the actual trajectory of green hydrogen's future depends on a variety of factors, including technological advancements, market dynamics, policy decisions, and public awareness. The adoption and growth of green hydrogen will likely vary by region and industry, but it is expected to play a substantial role in the global effort to reduce greenhouse gas emissions and transition to a more sustainable energy system. To get the most up-to-date information on the future of green hydrogen, it's essential to follow developments in the energy sector beyond September 2021.

ADLT Acquires Cree Lighting

Mr. Sabu Krishnan, CEO – ADLT.

Advanced Lighting Technologies, LLC ("ADLT") is proud to announce the acquisition of Cree Lighting US, along with e-conolight and Cree Lighting Canada on September 8th, 2023, from IDEAL Industries, Inc. Cree Lighting US, headquartered in Racine, Wisconsin, is a market leader and innovator of outdoor and indoor LED lighting.

Cree Lighting is a market leader and innovator of outdoor and indoor LED lighting. Cree Lighting can trace its beginnings to Ruud Lighting, which was founded in 1982 by Alan Ruud. Ruud Lighting launched the industry's first widely adopted LED luminaires in 2007. Ruud Lighting was part of the ADLT family during this time period before breaking off to become a standalone entity. In 2011, Ruud Lighting became the biggest acquisition of Cree Inc. (now known as Wolfspeed, Inc.) and the resulting Cree Lighting continues as a market leader in a broad range of LED lighting products.

Cree Lighting joins the ADLT Lighting Group family ("ALG") which will generate combined annual sales of approximately $350 million and employ over 1,375 associates in facilities located across five continents. This acquisition follows the earlier acquisition of Cree Lighting Italy in 2022; as well as the acquisition in early 2023 from Iwasaki Electric Co. Ltd. the rights to manufacture and sell HID and LED products bearing the EYE and other Iwasaki trademarks in the US and Canada. Through these acquisitions, The ADLT Lighting Group has enhanced its lighting platform and cemented itself as one of the world's leading lighting companies.

For more information please contact:

www.creelighting.com/ www.creelighting-europe.com/www.venturelighting.in

Shri. SURESH POTE, Director of ECAM, is telling his life story !

This slum is Asia's largest. On 1 Oct 1955 in Mumbai, I got married to Kamalini Pote. I have two children. I am electrician by profession but is more involved in solving issues of common people and that is the Goal of my whole life. I work for Dalit and backward classes, by providing all study material and helped them to stand on their own feet by education, social welfare schemes to youth, also conducted regular campaign and samskara workshop for youth to keep them away from alcohol, tobacco, cigarettes, and drugs. I also worked for medical cum healthcare, by organising different medical camps such as blood donation, eye check-up dentist check-up, Sr. Citizen medical counselling, pulse polio, AIDS awareness, Leprosy handicap camp. As a committee member of MAHARASHTRA VYAVASAY MARGDARSHAN KENDRA Mumbai and Ex. PRESIDENT of HARIJAN SEVA SAMITI and member of HARIJAN SEVA SANGH helped a lot of citizens to get benefit of medical camps by running successfully, and distributing them Wheel Chair and more than 550 Jaipur foots given free of cost to needy persons, in future with association of BHAGWAN MAHAVEER VIKLANG SAHAYATA SAMITI BMVSS I will continue do such work in coming years.

Over the years I have developed multi-faceted personality. Though not highly qualified, I have excelled in various activities. I have started as only diploma holder; I have taken up various challenging jobs in business as electrical contractor. I am also socially committed, this is evident from the fact have taken up to uplift my community socially, economically, educational, and in health, medical and other areas.

I am a social worker. I am from Dalit family was born in Dharavi Kala Killa, Sion Mumbai.

I have worked for poor women upliftment and child welfare work for different communities in society. Conducted women and child campaign, given them knowledge of family planning, explained that small family is happy family, and

less money is required. I helped to form women saving groups that is MAHILA BACHAT GUT, explained them importance of saving, how they can mobilise on monthly basis saving and also encourage them to start small business like papad making, sweater making and also helped in business setting up like agarbati making. I took initiative to start Polio dose medical check-up to small kids, healthy competition to make people specially sweepers of nutritious diet to new born baby till five year age, also distribute free uniform dress and books to sweepers children and encourage them to study hard.

Attempt to and maximize academic functioning of children as well as improving the family's overall wellbeing. In society i addressed problems such as, bad behaviour, teenage pregnancy, drug abuse and poor grades. I also adviced high school teachers and act as liaisons between students and teachers. We have connected them with facilities that serve to teach healthier behaviours and get patients back on track. These patients often struggle with mental and emotional problems as well as addictions and substance abuse problems provide individual and group counselling intervening during crises case management client advocacy prevention and education. i also focus on counselling families to assist in understanding and dealing with the patients problems Career Guidance Under MAHARASHTRA VYAVASAY MARGDARSHAN KENDRA Mumbai and MAHALAXMI SHIKSHAN SANSTHA.

Various career guidance activities are conducted Guidance to many students who do not know how to start business take one decision and also I taught them to start their own enterprise and become entrepreneur.

I am also connected with senior citizen welfare activities, and at present is the secretary of FEDERATION OF SENIOR CITIZENS ORGANISATIONS Maharashtra (FESCOM) Mumbai, also member of regulatory body. ALL INDIA SENIOR CITIZEN ORGANISATION.

Green hydrogen as energy storage could be as low as Rs 6/kWh: RK Singh

The government is soon going to come out with a pilot bid for 100 MW of green hydrogen as energy storage.

The Indian government is planning to use green hydrogen and green ammonia as energy storage systems.

Union Minister of Power and New & Renewable Energy, RK Singh, announced on September 15 that India is gearing up to invite bids for a pilot project aimed at generating 100 MW of round-the-clock (RTC) power using green hydrogen as a storage solution.

This move comes after preliminary studies conducted by the government explored the use of green hydrogen and green ammonia as energy storage systems to meet the nighttime or non-solar electricity demand in the country.

Singh emphasized the cost-effectiveness of this approach, stating, "Our estimates suggest that dispatchable power or round-the-clock renewable power will cost just about Rs 6 per kWh if we use green hydrogen as energy storage. It is cheaper than gas-based power.

It is cheaper than using battery energy storage systems (BESS) which cost us as much as Rs 10/kWh when we floated the tender for BESS." He made these remarks during the Fourth International Conference and Exhibition on Clean Energy, organized by the Confederation of Indian Industry (CII) and the Ministry of New & Renewable Energy (MNRE).

He further disclosed that the government is in the process of preparing a pilot bid for the development of 100 MW of green hydrogen as an energy storage system, with the intention of establishing a benchmark in this domain.

Singh also highlighted that once green hydrogen and green ammonia are firmly integrated into the energy storage sector, concerns related to the supply chain of critical minerals like lithium will become less significant. He noted, "Issues of whether we have any reserves of lithium or we have lithium processing facilities in India at all or not will go away. The fact that 88 percent of lithium processing facility lies with a single country in the world will also not matter as much."

India aims to become the largest producer and exporter of green hydrogen and ammonia globally due to its abundant and affordable renewable power sources. The launch of the National Green Hydrogen Mission by the government is expected to accelerate the production of green hydrogen and ammonia within the next two to three years.

Singh also mentioned that India may need to add 25 GW to 30 GW of thermal electricity generation capacity in addition to the existing 41-50 GW that is already in progress to meet the country's growing power demand. He explained that while India is actively pursuing round-the-clock renewable energy, additional thermal power capacity may be necessary to support the nation's economic growth and rising power demand. In addition to these developments, Minister Singh unveiled a CII-EY report on AatmaNirbhar Bharat in RE (Renewable Energy) manufacturing, which focuses on India's energy transition and its potential to become a global leader in advancing renewable energy innovation and manufacturing. The report highlights the importance of local manufacturing capacities to reduce dependence on imports and enhance supply chain resilience, benefiting both India and the rest of the world. Additionally, he launched a dashboard called the "Energy Transition Investment Monitor," which serves as a collaborative analytics platform tracking over 900 projects in the pipeline across renewable energy services and technology supply chains.

Published By Campaign masters

Solar power shines in global survey with 68 per cent support against fossil fuels

AMSTERDAM: More than two-thirds of the world's population favours solar energy, five times more than public support for fossil fuels, a global poll has found.

The survey, conducted by Glocalities in collaboration with advocacy groups Global Citizen and The Fossil Fuel Non-Proliferation Treaty Initiative, was based on interviews with more than 21,000 people in 21 countries between January and June. The countries included Australia, Brazil, China, India, Italy, Mexico, South Africa, South Korea, Turkey and the United States.

With 68% support, solar power was the most popular energy source, trailed by wind (54%), hydropower (35%) and nuclear (24%), with only 14% of respondents saying they favoured fossil fuels, the survey found.

The Glocalities poll reinforced other surveys showing robust support for renewables in Europe and the United States. The EU's latest Eurobarometer from May-June found 85% of Europeans support "investing massively" in renewable energies, such as wind and solar power.

A Pew Research Center poll from early 2022, which pre-dated a global spike in energy prices following Russia's invasion of Ukraine, showed 69% of U.S. adults prioritised developing alternative energy sources such as wind and solar over expanding the production of oil, coal and natural gas, down from 79% two years earlier.

In the United States, the Glocalities poll found, solar energy was also the most favoured power source at 58%, while fossil fuel was supported by 24%, well ahead of the global average.

Fossil fuels, however, still accounted for 77% of global energy consumption in 2022, said Michael Sheldrick, Co-Founder and Chief Policy, Impact and Government Affairs Officer at Global Citizen.

"This 'production gap' highlights a concerning paradox: despite strong public support for renewable energy, fossil fuel production remains prevalent," he said.

"Regardless of demographic or political affiliation, Democrat or Republican, solar power emerges as the world's preferred energy source...(which) indicates that there exists a common ground where political agendas can align with the clear demands of citizens," he added.

Global energy demand rose 1% last year and record renewables growth did nothing to shift the dominance of fossil fuels, the most recent Statistical Review of World Energy report said.

Scientists say the world needs to cut greenhouse gas emissions by around 43% by 2030 from 2019 levels to have any hope of meeting the international Paris Agreement goal of keeping warming well below 2 degrees Celsius above pre-industrial levels.

Humanity going to pass 1.5 Degree Celsius global warming

The climate overshoot report identifies four responses to warming above 1.5 degree Celsius -- cut emissions to mitigate warming, adapt to changing climate, remove carbon already in the atmosphere or ocean, explore intervening to limit warming by intentionally reflecting a fraction of sunlight into space.

Sydney: For three decades, the goal of international climate negotiations has been to avoid "dangerous" warming above 1.5 degree Celsius. With warming to date standing at around 1.2 degree Celsius, we haven't quite reached the zone we labelled dangerous and pledged to avoid. But recent scientific assessments suggest we're on the brink of passing that milestone.

Within this decade, global annual temperatures will likely exceed 1.5 degree Celsius above the pre-industrial average for at least one year. This threshold was already briefly passed for the month of July 2023 during the Northern summer.

The question is, how do we manage this period of "overshoot" and bring temperatures back down? The goal will be to restore a more habitable climate, as fast as possible.

Today an independent group of global leaders released a major report. The Climate Overshoot Commission offers guidance at this crucial time. So far the report's call for an immediate moratorium on "solar radiation management" (deflecting the sun's rays to reduce warming) has attracted the most attention. But the details of other recommendations deserve closer inspection.

How can we respond to climate overshoot? Historically, climate policies have focused on mitigation (reducing greenhouse gas emissions). More recently, adaptation has gained prominence.

But the climate overshoot report identifies at least four different kinds of responses to warming above 1.5 degree Celsius -- cut emissions to mitigate warming, adapt to the changing climate, remove carbon that is already in the atmosphere or ocean, explore intervening to limit warming by intentionally reflecting a fraction of sunlight into space.

The commission's task was to examine how all possible responses might best be combined. Their report was written by 12 global leaders - including former presidents of Niger, Kiribati and Mexico - who worked alongside a youth panel and a team of scientific advisers.

The four-step plan to reining in warming

Not surprisingly, the commission argues our central task is mitigation. Transitioning away from fossil fuels remains the first priority. But reaching net zero emissions is just the first step. The commission argues developed countries like Australia should go further and aim for net- negative emissions.

Why net-negative?

In the short term, drawing down carbon can create space for the least industrialised countries to fight poverty while transitioning to clean energy. In the longer term, the whole global economy must achieve net-negative emissions if the planet is to return to our current "safe" climatic zone.

The second step is adaptation. Only a few decades ago former United States Vice President Al Gore branded adapting to climate change a "lazy cop-out". Today we have no choice but to adapt to changing conditions. However, adaptation is expensive - whether it is developing new crop varieties or rebuilding coastal infrastructure.

Since the poorest communities who are most vulnerable to climate harms have the least capacity to adapt, the commission recommends international assistance for locally controlled, context-specific strategies.

As a third step, the commission agrees with scientific assessments that carbon dioxide "will need to be removed from the air on a significant scale and stored securely" if we are to avoid permanent overshoot beyond 1.5 degree Celsius warming.

But how to achieve large-scale permanent, carbon removal?

Some environmental activists support natural solutions such as planting trees but oppose industrial

methods that seek to store carbon in inorganic form such as carbon capture and storage underground.

The commission agrees the organic/inorganic distinction is important. However, it points out while forests bring many benefits, carbon stored in ecosystems is often re-released - for example, in forest fires. The commission worries many carbon removal approaches are phoney, impermanent or have adverse social and environmental impacts.

However, instead of ruling out technologies on ideological grounds, it recommends research and regulation to ensure only socially beneficial and high-integrity forms of carbon removal are scaled up.

The fourth step - "solar radiation management" - refers to techniques that aim to reduce climate harms caused by reflecting some of the Sun's energy into space. No-one likes the idea of solar radiation management. But no-one likes getting vaccinated either - our gut reactions don't provide a fool-proof guide to whether an intervention is a worth considering.

Should we trust our guts on this one? While climate models suggest solar radiation management could reduce climate harms, we don't yet properly understand associated risks.

The commission approaches this topic with caution. On the one hand, it recommends an immediate "moratorium on the deployment of solar radiation modification and large-scale outdoor experiments" and rejects the idea that deployment is now inevitable. On the other hand, it recommends increased support for research, international dialogue on governance, and periodic global scientific reviews.

Time to examine intervention in the climate system?

The idea we can avoid dangerous warming completely seems increasingly quaint. Like baggy jeans, the boy band NSYNC and the iPod shuffle, it reminds us of a more innocent era. Yet, Australia's climate debate often seems stuck in this era.

The widespread hope we "still have time" means we are not yet discussing the merits of more interventionist responses to the climate crisis. However, there's increasing reason to be sceptical incremental measures will be sufficient. We may soon be forced to move beyond the non-interventionist, conservation paradigm.

Whether or not its recommendations are taken up, the Climate Overshoot Commission's work shows how the international community has failed to avert dangerous climate change. Reckoning with the consequences of this failure will dominate public policy for decades to come. This new report takes us a step forward. (The Conversation)

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We're excited to work with you, let's schedule a quick call to discuss further. Looking forward to assisting you!

SCHEDULE A MEETING

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