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## The anniversary is a joyous occasion commemorating trust, service, and relationships.

“With utmost pride and sincerity, we are thrilled to announce that **Electrical & Power Info** magazine is commemorating its **16th MEGA ANNIVERSARY** – a milestone that marks 15 years of existence. Published in print, online, and across various social media platforms, the magazine has been a dedicated source of information in the Electrical & Power industry.

“The magazine has been a dedicated source of information in the Electrical & Power industry”: This emphasizes the magazine’s commitment to providing reliable and focused information within the Electrical & Power industry. It implies that the publication has played a significant role in keeping its audience informed about developments in this specific field.

India is the third-largest producer and consumer of electricity worldwide, with an installed power capacity of 426.13 GW as of November 30, 2023.

As of November 30, 2023, India’s installed renewable energy capacity (including hydro) stood at 179.57 GW, representing 42.1% of the overall installed power capacity. As of November 30, 2023, Solar energy contributed 72.31 GW, followed by 44.56 GW from wind power, 10.26 GW from biomass, 4.98 GW from small hydropower, 0.57 from waste to energy, and 46.88 GW from hydropower.

The peak power demand in the country stood at 243.27 GW in November 2023.

Afzal Kamal  
Electronics Engr.  
Editor-in-chief

Have an insightful reading.  
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**“If you look at history, innovation doesn’t come just from giving people incentives; it comes from creating environments where their ideas can connect.”**

**Asif Malik**

**Managing Director, Indtech Capacitors Pvt. Ltd**

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### **COMPANY PROFILE**

Indtech Capacitors India founded in 1998, ICI produced high performance capacitors, our factory has been developing to employ a working force of over 500 workers, among which 25 are technicians. It covers area of 7,500sq.m.. Fixed assets have reached Rs. 500 million. Owing special production lines with annual production capacity of more than 18 million capacitors. Capacitors have certificates of RoHS, CE, ISI and factory obtained ISO 9001 international quality system.

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- ▶ Capacitors for Submersible Panel
- ▶ Motor Run Capacitors
- ▶ Motor Start Capacitors
- ▶ Capacitors for MS BOX
- ▶ Burst Proof Capacitors for AC (Singal & Dual Value)
- ▶ Capacitors for Washing Machine
- ▶ Box Type Capacitors
- ▶ Power Capacitors (KVAR)

### **ELECRAMA EXHIBITION**

The ELECRAMA Exhibition was held after 4 years. First time ever we took a part in this exhibition which was held in the month of February, from 18th Feb’23 to 21st Feb’23, and we really feel glad to be a part of such an amazing exhibition

Thank you for letting us know about the opportunity, where we found a lot of contacts of customers from National & International market too. Customers were also full of Zest & zeal. They had a lot of queries regarding products. Customers wanted to know not only about general info but they had a lot of technical questions also. It was really a great experience to see that much interest of customers. And we hadn’t find only customers but we find suppliers also for our raw materials.

We’ll definitely work on the data we received from there in coming time and grow our business further. We’ll provide the best quality products to the customers so they’ll be completely satisfied and always tuned with us..



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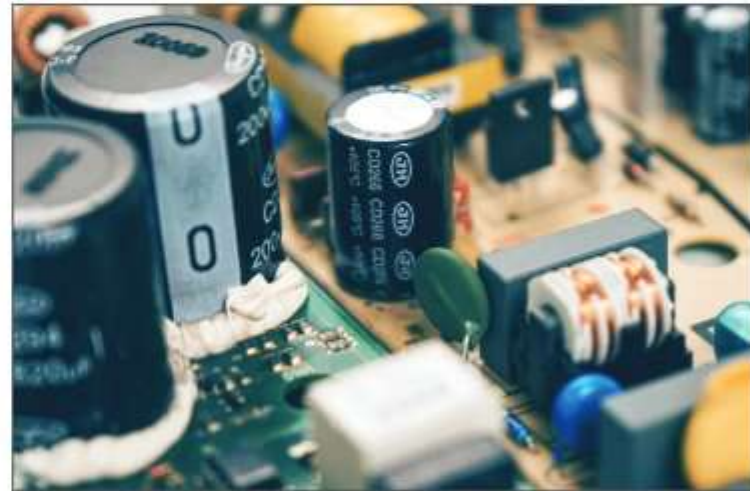


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## Havells unveils country's first made in India energy efficient Heat pump water heaters

Havells India Limited, a leading Fast-Moving Electrical Goods (FMFG) company is proud to introduce its latest innovation with the launch of first time Made in India Heat Pump Water heater. Tailored to meet the demands of residential applications, this cutting-edge technology offers up to 75% energy savings, setting new standards in water heating.

Designed with a specific focus on addressing concerns about energy wastage and the adequacy of hot water, the revolutionary Havells Heat Pump offers a solution that allows you a seamless bathing experience, while consuming only ¼ energy cost compared to conventional water heaters.

Speaking on the occasion, Mr Avneet Singh Gambhir, Vice President

Havells India, "At Havells, our unwavering commitment to energy efficiency and sustainability has always driven our innovative endeavours. Introducing the revolutionary Havells Heat Pump marks a significant milestone as it proudly stands as the first 'made in India' solution. This

ground breaking offering not only minimizes energy consumption but also presents our customers with state-of-the-art, eco-friendly technology, elevating their overall quality of life. We take pride in leading the way towards a greener, more sustainable future through our continuous dedication to pioneering solutions that make a positive impact on both the environment and the lives of our valued customers".



## PFC signs MoU with Govt. of Gujarat for various Power Projects worth Rs. 25,000 Crore

Power Finance Corporation Ltd. (PFC), a Maharatna CPSE and the country's leading NBFC in the power sector, signed an MoU with the Government of Gujarat (GoG) on January 3, 2024.

The MoU has been signed by Smt. Parminder Chopra, CMD PFC and Shri Jai Prakash Shivhare, IAS, MD (GUVNL) in the presence of Shri Bhupendra Patel, Hon'ble Chief Minister of Gujarat; Shri Rushikesh Patel, Minister of Health & Family Welfare, Higher & Technical Education, Law & Justice, Govt. of Gujarat; Shri Raj Kumar IAS, Chief Secretary, Govt. of Gujarat; Shri S. J. Haider, IAS, Additional Chief Secretary, Govt. of Gujarat; Smt. Mamta Verma, IAS, Principal Secretary (Energy & Petrochemicals Department); Shri R.K. Chaturvedi, Executive Director (Projects), PFC and other Senior Officials of PFC, GUVNL and other power utilities. The chief objective of this MoU is to



provide comprehensive financial backing for the state's generation, transmission, and distribution projects.

The MoU, signed in Gandhinagar, marks a significant step towards bolstering various projects undertaken by Gujarat Urja Vikas Nigam Limited (GUVNL), Gujarat

State Electricity Corporation Limited (GSECL), Gujarat Energy Transmission Corporation Ltd (GETCO), Dakshin Gujarat Vij Company Ltd (DGVCL), Madhya Gujarat Vij Company Ltd (MGVCL), Paschim Gujarat Vij Company Ltd (PGVCL), and Uttar Gujarat Vij Company Ltd (UGVCL). The collaboration is set to facilitate long-term debt and other critical funding necessities vital for executing these diverse projects.

Under the terms of the MoU, the envisaged financial assistance stands at an impressive Rs. 25,000 Crore, dedicated to powering up various projects across Gujarat.

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## Toshiba Transmission & Distribution (India) Private Limited Receives Prestigious Star Performer Award from EEPIC India

Toshiba Transmission & Distribution (India) Private Limited (hereinafter TTDI), a leader in India's Transmission & Distribution equipment market, has been honoured with the Star Performer Award for the year 2019-20 by the Engineering Export Promotion Council of India (hereinafter EEPIC India).



TTDI has won the National Award for Export Excellence in the category of Electric Motors, Generators, and Transformers and parts – Large Enterprises. Mr. Hiroshi Furuta, Chairman and Managing Director, TTDI received the award at an award function held in New Delhi on November 21.

The Star Performer Award, bestowed by EEPIC India, recognizes TTDI for its exceptional performance in exporting its Products to many reputed electrical power distribution utilities and various other customers located

in developed / developing countries across the globe.

Speaking on this achievement, Mr. Hiroshi Furuta, Chairman and Managing Director, TTDI, expressed gratitude and remarked, "We are honoured to receive this prestigious accolade from EEPIC India. Toshiba Corporation, Japan

has established TTDI as its global manufacturing hub for T&D business. This recognition reaffirms our dedication to "Make-in-India & Export-from-India" initiative by manufacturing and delivering a wide range of high-quality, reliable and efficient transmission and distribution equipment, which includes Power Transformers, Distribution Transformers and Gas Insulated Switchgears (GIS). This award motivates us to continue our relentless pursuit of excellence and innovation."

## Erisha E Mobility signs INR 6,900 Crore MOU with Gujarat Govt for Green Hydrogen & Mega EV Park

Erisha E Mobility Private Limited (Erisha E Mobility), a pioneer in sustainable energy and electric vehicles, is set to reshape the future of mobility in India through a groundbreaking Memorandum of Understandings (MOUs) with the Government of Gujarat.

The MOU outlines a collaborative effort to explore, develop, and implement innovative solutions in the field of renewable energy, specifically focusing on Green Hydrogen production and to establish an Electric Vehicle (EV) Park and deploy 100 state-of-the-art EV charging hubs across Gujarat with the mega investment of INR 6,900 crores.

Dr. Darshan Rana, Chairman and Managing Director, Erisha E Mobility Private Limited commented, "We are excited to partner with the Gujarat Government in their mission to accelerate the adoption of electric vehicles.

## Essar selects final technology partner for Essar Oil UK's Industrial Carbon Capture facility, onboarding all key technology providers

Essar Oil UK announces the selection of the final key licensor technology provider, Elessent Clean Technologies' BELCO® gas cleaning technology for the planned EET Industrial Carbon Capture facility based at Stanlow, UK. This is another pivotal step towards Essar Oil UK's \$1.2 billion investments in decarbonising the refinery by reducing -2 million tons of CO2 (95%) emissions, making it the world's first low carbon refinery and world's first low carbon fuel producer. Deepak Maheshwari, CEO of Essar Oil UK, said: "It's great to have our final licensor technology provider in place as we move into the next phase of our decarbonisation strategy.



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## PFC & NEDO collaborate to promote energy efficient technologies for a sustainable future

Power Finance Corporation Ltd (PFC), India's leading financial institution in the power sector, is pleased to announce a strategic collaboration with New Energy and Industrial Technology Development Organization (NEDO), Japan's pioneering agency for promoting environmental, energy and industrial technology innovation. Together, PFC & NEDO aim to disseminate the outcome of the demonstration project on "Micro Sub-station with Power Voltage Transformer". This project is aimed at realizing environment friendly power supply in the areas with undeveloped distribution network, which is being implemented between Nissin Electric Company Limited (NISSIN) and Tata Power Delhi Distribution Limited (TPDDL).

## Plans for UK's largest hydrogen production hub given green light

Cheshire West & Chester Council has approved groundbreaking plans by EET Hydrogen for the first large scale, low carbon hydrogen production plant (HPP1) in the UK located at the Stanlow Manufacturing Complex in Ellesmere Port, Cheshire. Consisting of two plants (HPP1 and HPP2), the hydrogen hub will enable local industrial and power generation businesses to switch from fossil fuels to low carbon energy. This will help to reduce the North West's carbon emissions by 2.5 million tonnes every year – the equivalent of taking 1.1 million cars off the roads. The hydrogen will be used locally by the Essar refinery and other major manufacturers in the region, including Tata Chemicals, Encirc and Pilkington to create the first low carbon refining operations, glass and chemicals manufacturing sites in the world. The EET Hydrogen hub will help to secure and grow vital industries, create jobs and unlock billions of pounds of related investment. EET will develop the hydrogen hub in phases with the first plant (HPP1) at 350MW capacity, the second (HPP2) at 1,000MW capacity and an overall target capacity of 4,000MW+ by 2030.

## PFC SIGNS MoA WITH ASSAM BIO-REFINERY PRIVATE LIMITED (ABRPL) FOR SETTING UP BIO-REFINERY PLANT FOR ETHANOL PRODUCTION AND OTHER PRODUCTS ALONG WITH 24 MW BIO-COAL BASED CAPTIVE POWER PLANT (CPP) IN NUMALIGARH, ASSAM STATE.

Power Finance Corporation Limited (PFC) & Assam Bio-Refinery Private Limited (ABRPL) successfully signed a loan agreement on 13.02.2024 for extending term loan of Rs. 3037.50 Crores for setting up Bio-Refinery plant for 2G Bioethanol production and other products such as Furfuryl Alcohol, Acetic Acid, Liquid CO2 along with 24 MW Bio-Coal based CPP in Numaligarh, Assam State at an estimated Project Cost of Rs 4200 Crore. The bio-refinery plant uses dry bamboo as input raw material of 3 MTPA. It shall produce Cellulosic 2G Bio Ethanol and other platform chemicals using Chempolis' 2nd generation bio-refining



technology 'Formicobio™'. ABRPL is a Joint Venture (JV) of Numaligarh Refinery Limited (NRL) and a subsidiary of Oil India Ltd. (OIL), Fortum 3 B.V., Netherlands (Fortum 3 BV) and Chempolis OY, Finland (Chempolis).

The MoA was exchanged in the presence of Smt. Parminder Chopra, CMD; Shri Manoj Sharma, Director (Commercial); Shri H K Das, ED (Projects); Shri Nitin Kumar, GM (Projects –CSP) and Dr. Ranjit Rath, CMD, OIL, Shri Bhaskar Jyoti Phukan, Managing Director, NRL, Shri Sanjay Choudhuri, Director (Finance), NRL & Chairman ABRPL, along with other officials of PFC, OIL, NRL & ABRPL.

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## NTPC demonstrates zero emission 'Hydrogen Cooking'

NTPC Energy Technology Research Alliance (NETRA), the R&D wing of India's largest integrated power utility, demonstrated successful hydrogen cooking with supply of hydrogen from the existing Green Hydrogen plant at its campus at Greater Noida.

Burning characteristics of hydrogen is much different from LPG or PNG wrt flame color (almost invisible), flame temperature (1200-1500C), flame propagation speed etc. Also, unlike LPG or PNG, hydrogen cannot be premixed with air prior to its ignition – else it would form explosive mixture.

Considering above, hydrogen burner was designed and used in a modified cookstove to prepare food.

## Mahindra Group and Ontario Teachers' co-sponsor India's Largest Renewable Energy Listed InvIT\* with Offer Size of Rs. 2262.8 Crore (USD 273 Million)

Mahindra Group, a leader in farm equipment, utility vehicles, information technology and financial services businesses in India, and Ontario Teachers' Pension Plan Board (Ontario Teachers'), a leading global institutional investor, through their associates have co-sponsored an Infrastructure Investment Trust (InvIT) holding assets in the renewable energy space. The InvIT, "Sustainable Energy Infra Trust" (SEIT), is India's largest InvIT in the renewable energy space\*. SEIT has raised primary capital of Rs. 1365 Crore (USD 165 Million) as part of the initial offer of units (Offer). The Offer was subscribed by marquee global and Indian investors, including Asian Infrastructure Investment Bank (AIIB). SEIT made its debut on the National Stock Exchange of India Limited today.



## IIT Kanpur joins hands with Lucknow Cantonment Board for a Waste-Free and Carbon-Neutral Campus

The Indian Institute of Technology Kanpur (IITK) has signed a Memorandum of Understanding (MOU) with the Lucknow



Cantonment Board to serve as the knowledge partner in their joint mission to achieve a waste-free and carbon-neutral campus, aiming to create a scalable model in line with India's vision of achieving net zero emissions by 2070.

The MOU was signed by Col. Mayank Sundriyal, Commander Works Engineer (CWE), Lucknow and Prof. Tarun Gupta, Dean of Research and Development at IIT Kanpur, in the presence of Brig. Sanjeev Kumar (CELZ), Maj. Ankit Kumar (GE E/M), Shri. Ajitesh Pandey GEP(P), Prof. J.G.Rao, Associate Dean, R&D, IITK; along with Prof. Debopam Das, Prof.

Rajeev Jindal, and Prof. Aakash C. Rai from the Department of Sustainable Energy Engineering, Chandrakanta Kesavan Centre for Energy Policy

and Climate Solutions, and Kotak School of Sustainability at IIT Kanpur. Representing as a knowledge partner, IIT Kanpur will support research projects, seminars, and educational initiatives while also adopting eco-friendly practices, cutting carbon emissions, and pursuing renewable energy options.

Prof. S. Ganesh, Director, IIT Kanpur, said, "As an academic institute continuously thriving for excellence, IIT Kanpur is at the forefront of pioneering innovative and sustainable solutions to tackle climate change. The recently established Kotak School of Sustainability at the institute is a significant step towards this vision.



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## Sterling and Wilson Renewable Energy closing Q3FY24 with five marquee project wins totalling over INR 2,400 crore

Sterling and Wilson Renewable Energy Limited (SWRE) (BSE Scrip Code: 542760; NSE Symbol: SWSOLAR) one of the leading solar EPC and O&M solutions provider, announced its financial results for the quarter ended 31st December 2023.

The quarter witnessed strong order inflow from prestigious domestic and global IPPs in the last few weeks of December post successful completion of the QIP. Total order inflows amounted to over INR 2,400 crore resulting in further strengthening of the order book. SWRE emerged as L-1 bidder for the single largest floating solar project in India for a PSU followed by finalizing four strategic projects from Plenitude Spain (part of ENI Group), Green Infra Wind Energy Limited



(GIWEL) a subsidiary of Singapore-headquartered Sembcorp Industries and Cleantech.

SWREL completed a successful raise of INR 1,500 crore through a Qualified Institutional Placement (QIP) in December 2023 that received a strong response from both domestic mutual funds and global FIIs. The company also received

inflows from promoter indemnity payments and customer settlements, which have been used to bring down debt significantly during this quarter and all overdue debts have been repaid.

Despite tight working capital conditions which impacted operations in Q3FY24, SWRE has posted standalone profit and a positive EBITDA on consolidated level.

### Su-Kam organises enlightening Business Dealers Meet in Bangkok

Su-Kam Power Systems Limited (Su-Kam), a leading power solution provider in India, organised a dynamic 5-day Business Dealers Meet in Bangkok, Thailand. The event, titled "Mega Beach Carnival," was attended by successful dealers and distributors of Su-Kam who had participated in and met the targets of the Dealer Scheme launched by Su-Kam. The scheme provided the successful participants the opportunity to stay in a 4-star luxury hotel in Bangkok and Pattaya for 3N/4D with return air tickets and local sightseeing after successfully meeting monthly and quarterly targets. More than 150 dealers and distributors of Su-Kam successfully fulfilled the targets and participated in the event.

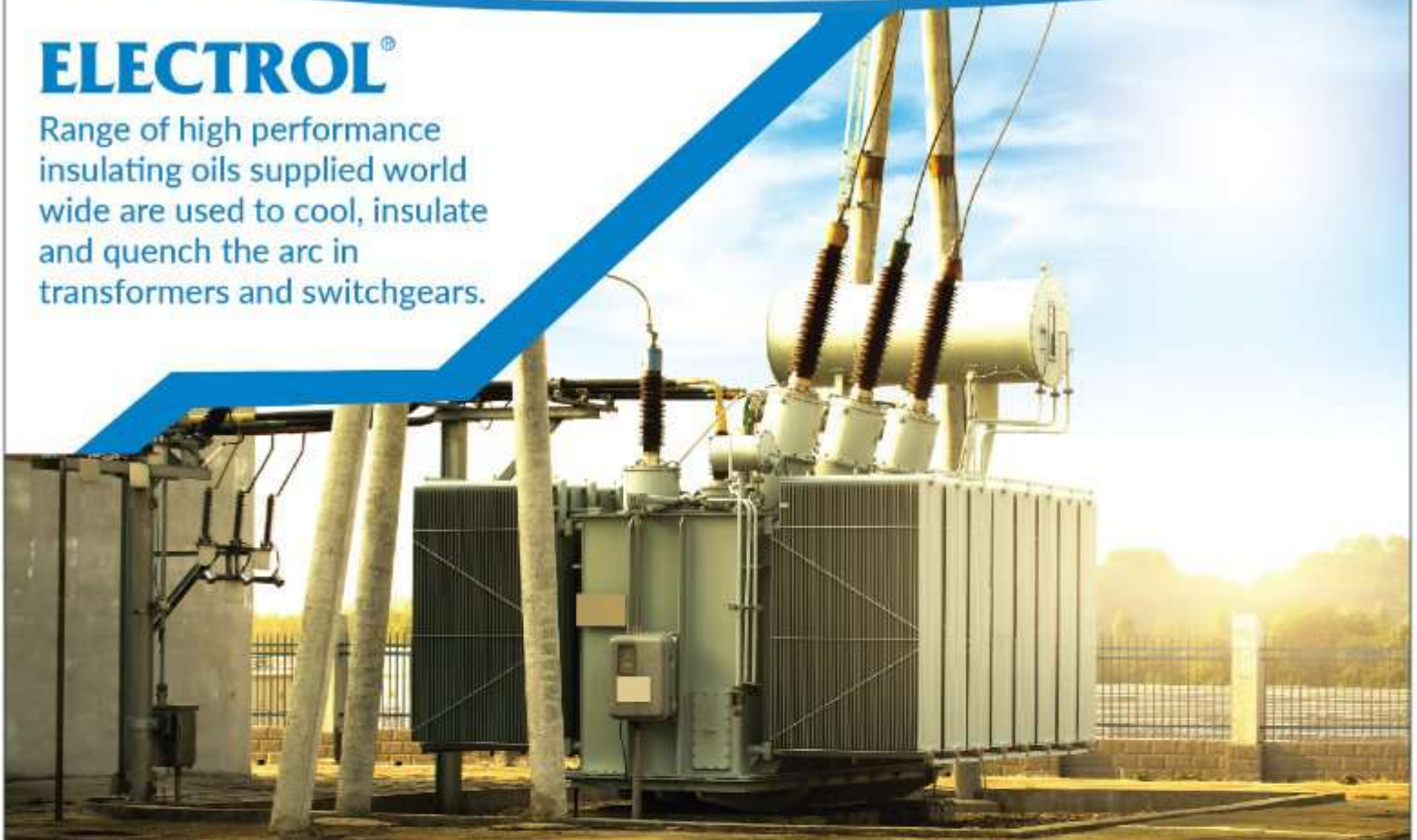
### L&T Construction Railway Business Group awarded (Mega\*) Order to build Electrification System Works for The Mumbai Ahmedabad High Speed Rail Project

The Railways Strategic Business Group of L&T Construction has secured a Mega Contract from an authorised Japanese agency to construct 508 Route Km of High-Speed Electrification System Works (Package No: EW 1) for the Mumbai-Ahmedabad High-Speed Rail (MAHSR) Project, popularly referred to as the Bullet Train Project.

The scope of this package includes Design, Manufacture, Supply, Construction, Installation, Testing and Commissioning of 2 x 25 kV Power Supply Electrification System including Traction Substations, High Speed Overhead Equipment and MV/LV Power Distribution Equipment Works on Design-Build Lump Sum Price basis.

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Eppeltone started with production of Switch Mode Power Supplies (SMPS) for computers & other electronic devices and gradually expanded to a wider manufacturing portfolio, including production of AVR, UPS, MCBs, and transducers.

**Rohit Chowdhary**  
Director,  
Eppeltone Engineers Pvt. Ltd.

Eppeltone Engineers is amongst top metering companies in India established in 1977. Eppeltone started with production of Switch Mode Power Supplies (SMPS) for computers & other electronic devices and gradually expanded to a wider manufacturing portfolio, including production of AVR, UPS, MCBs, and transducers.

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Eppeltone is committed to providing consumers with high-quality, cost-effective metering goods and services. We have a CMMI Level III accreditation and certifications including ISO 9001, 140001 & 27001 and 'S' mark safety accreditation from the Government of India.

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Email: [info@eppeltone.in](mailto:info@eppeltone.in)

Website: [www.eppeltone.in](http://www.eppeltone.in)

## RPG Group pledges to conserve, restore and grow one million trees by 2030 as part of its Mega Plantation drive to be Nature-Positive

RPG Group, one of India's leading business conglomerates, has pledged to conserve, restore and grow one million trees by 2030. This initiative is pledged with It.org, a Geneva-based World Economic Forum platform that aims to mobilize a global reforestation community to attain the goal of conserving, restoring and growing 1 trillion trees worldwide by 2030.

It.org is a vital part of the World Economic Forum's work to accelerate nature-based solutions in support of the UN Decade on Ecosystem Restoration (2021-2030). RPG Group aims to reforest these trees across regions where they operate, including Maharashtra, Gujarat, Tamil Nadu, Telangana, Madhya Pradesh, West Bengal, and Rajasthan.

## Epsilon Carbon Commits Investment of Rs. 10,000 Crore Integrated Carbon Complex in Odisha



Epsilon Carbon Pvt. Ltd., a leading player in the carbon industry, today has signed a Memorandum of Understanding (MoU) with the Government of Odisha to invest Rs. 10,000 crores over 10 years, pioneering the future of carbon manufacturing in India. This significant investment will materialize into an Integrated carbon Complex (ICC) located in Jharsuguda, Odisha.

The project is expected to create approximately 2000 direct and indirect job opportunities, contributing to the socio-economic development of the region. Epsilon Carbon will also be collaborating with the local communities to ensure their overall prosperity through programs in key areas such as education, skill development, healthcare, and infrastructure.

## NTPC Limited certified as a Top Employer 2024 in India by the Top Employers Institute



The 2024 Top Employers have been announced and NTPC Limited has been certified as a Top Employer in India by the Top Employers Institute. Shri Dillip Kumar Patel, Director (HR), received

the Award on behalf of NTPC at the Top Employers 2024 Certification Celebration Event held on 25th January, 2024, at Singapore.

Top Employers Institute is the global HR authority on certifying excellence in HR best practices. For over 33 years, the firm has been dedicated to accelerating the impact of HR strategies to enrich the world of work through certification, benchmarking, aligning and connecting Top Employers around the globe.

## Jammu Smart City drives towards a greener tomorrow with Tata Motors electric buses

Tata Motors, India's largest commercial vehicle manufacturer, announced that it has delivered state-of-the-art Ultra EV air-conditioned electric buses to Jammu Smart City Limited through TML Smart City Mobility Solutions (J&K) Pvt Ltd, a Tata Motors Group company. The initiative led by the Housing and Urban Development Department of the Government of Jammu & Kashmir, is aimed at establishing an environmentally sustainable public transportation system in Jammu. These emission-free Tata Motors electric buses are manufactured in India using cutting-edge technology.

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7<sup>th</sup> Edition



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(An Event of CODISSIA Intec Technology Centre)

*An Exhibition for Electrical and Industrial Electronics*

**9<sup>th</sup> to 12<sup>th</sup> August 2024**

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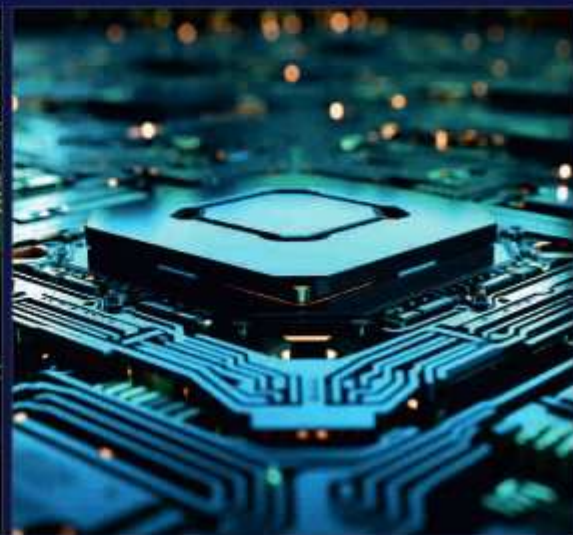


## Exhibitors' Profile

- Cables, Conductors
- Cable fault locators
- Capacitors
- Conductors & Accessories Testing
- Design & Consultancy
- Electrical / Electronics Components & Accessories
- Electro Mechanical
- Energy Meters
- Engineering Project
- Electrical Vehicle Manufacturers
- Industrial Control & Automation Systems
- Wires and Cables
- Lighting Accessories
- Micro Electronics
- Motors & Generators
- Optical Fibers
- Opto-Electronics
- Pollution Control Equipment
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- Insulators & Insulating Materials
- IT Solution
- Lighting - Industrial, Decorative, Flood, Home and Retail
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CABLES

AND

WIRES



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# Electrical Wire and Cable Market Trends

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“The industry is currently experiencing a positive growth scenario”

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Wires and cables are essential components of electrical and electronic systems, serving as conduits for the transmission of electrical power or signals. The Wire and Cable Market achieved a size exceeding USD 243 billion in 2023 and is anticipated to exhibit a Compound Annual Growth Rate (CAGR)

of 9.1% from 2024 to 2032. This growth is attributed to the escalating number of infrastructure and development projects, coupled with an increasing demand for consumer electronic products. The industry is currently experiencing a positive growth scenario, driven by a rising preference for

# Consumer inclination towards flexible and fire-resistant wires and cables



refurbishment and upgrading of existing electric infrastructure across key economies. Substantial investments in automotive and manufacturing sectors, alongside the rapid expansion of IT and telecommunication applications, are expected to propel market demand. Consumer inclination towards flexible and fire-resistant wires and cables, aiming to protect living environments, in tandem with the extended lifespan of these products, will invigorate the business landscape. Growing investments in expanding electrification

networks in emerging economies are poised to contribute to a positive outlook for the wire and cable market. Infrastructure development, supported by increased investments from both public and private entities, fortifying programs and regulatory initiatives, is expanding the overall industry size. The emphasis on reducing greenhouse gas emissions and implementing stringent energy efficiency measures creates a favourable business environment for product adoption. Additionally, the introduction of



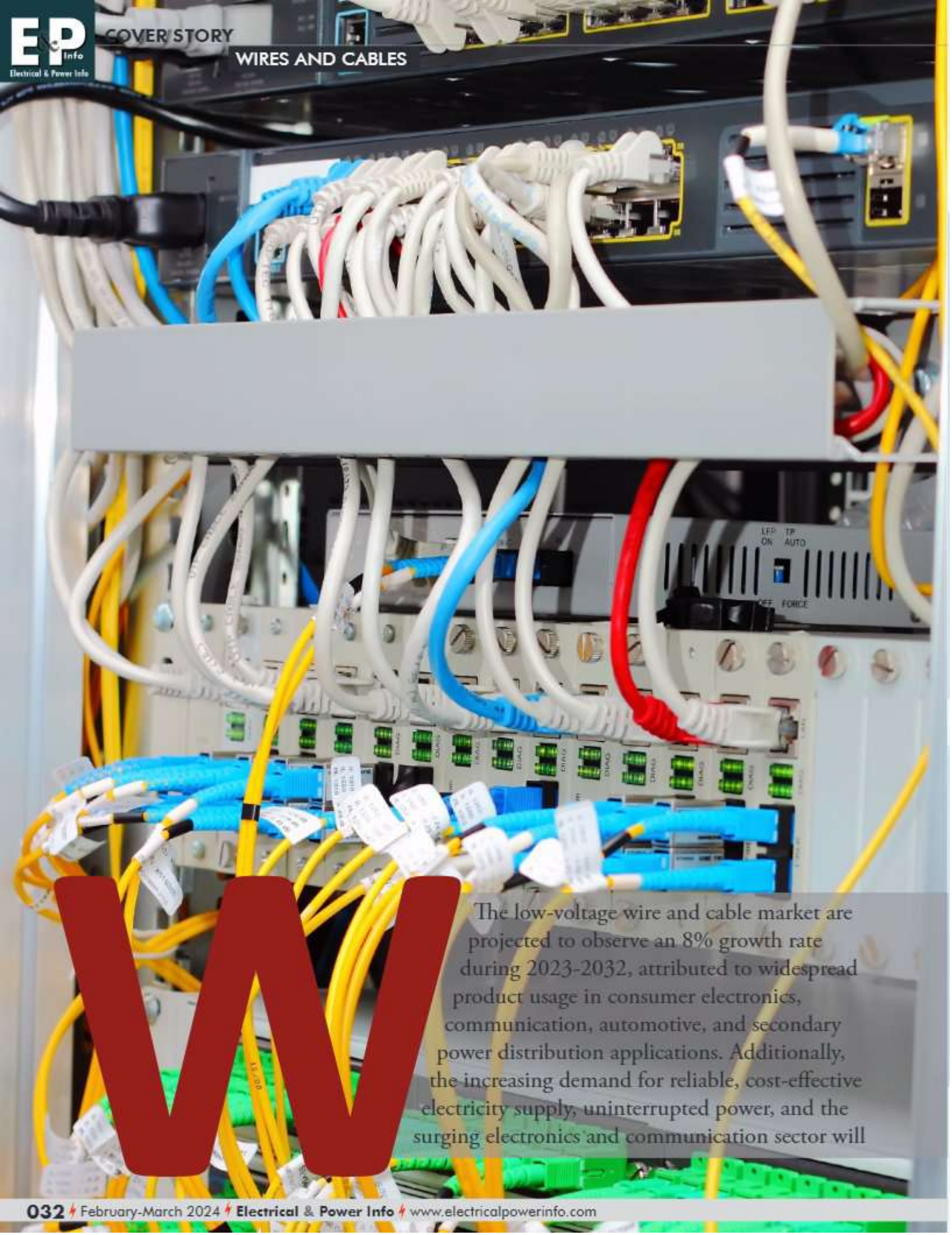
innovative components, technologies, and control equipment to upgrade existing electrification networks has positively impacted business dynamics.

The robust growth of the consumer electronic sector, coupled with the expansion of the grid infrastructure network, will significantly enhance the dynamics of the wire and cable market. Increased investments in research and development by various manufacturers to augment their product portfolios and evolving consumer demands will propel the business scenario. The shift to renewable energy sources, including solar and wind power, has resulted in a growing demand for wire and cable portfolios that efficiently transmit renewable energy over long distances. Furthermore, the integration of smart grid technologies, encompassing advanced metering infrastructure and distribution automation, necessitates the deployment of wires and cables for data transmission and communication within the grid infrastructure.

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**“Increased investments in research and development by various manufacturers to augment their product portfolios and evolving consumer demands will propel the business scenario.”**

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# W

The low-voltage wire and cable market are projected to observe an 8% growth rate during 2023-2032, attributed to widespread product usage in consumer electronics, communication, automotive, and secondary power distribution applications. Additionally, the increasing demand for reliable, cost-effective electricity supply, uninterrupted power, and the surging electronics and communication sector will

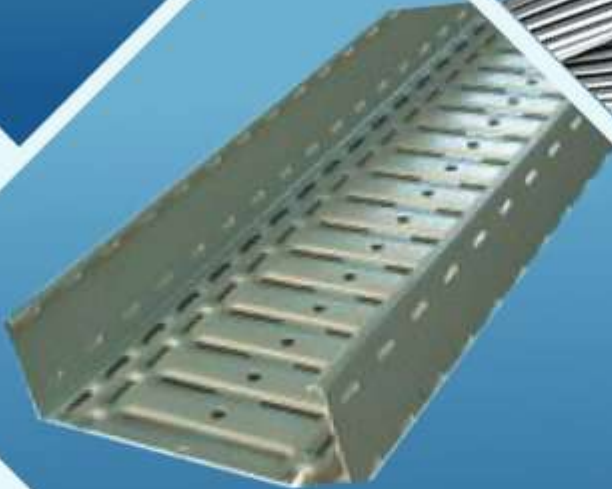


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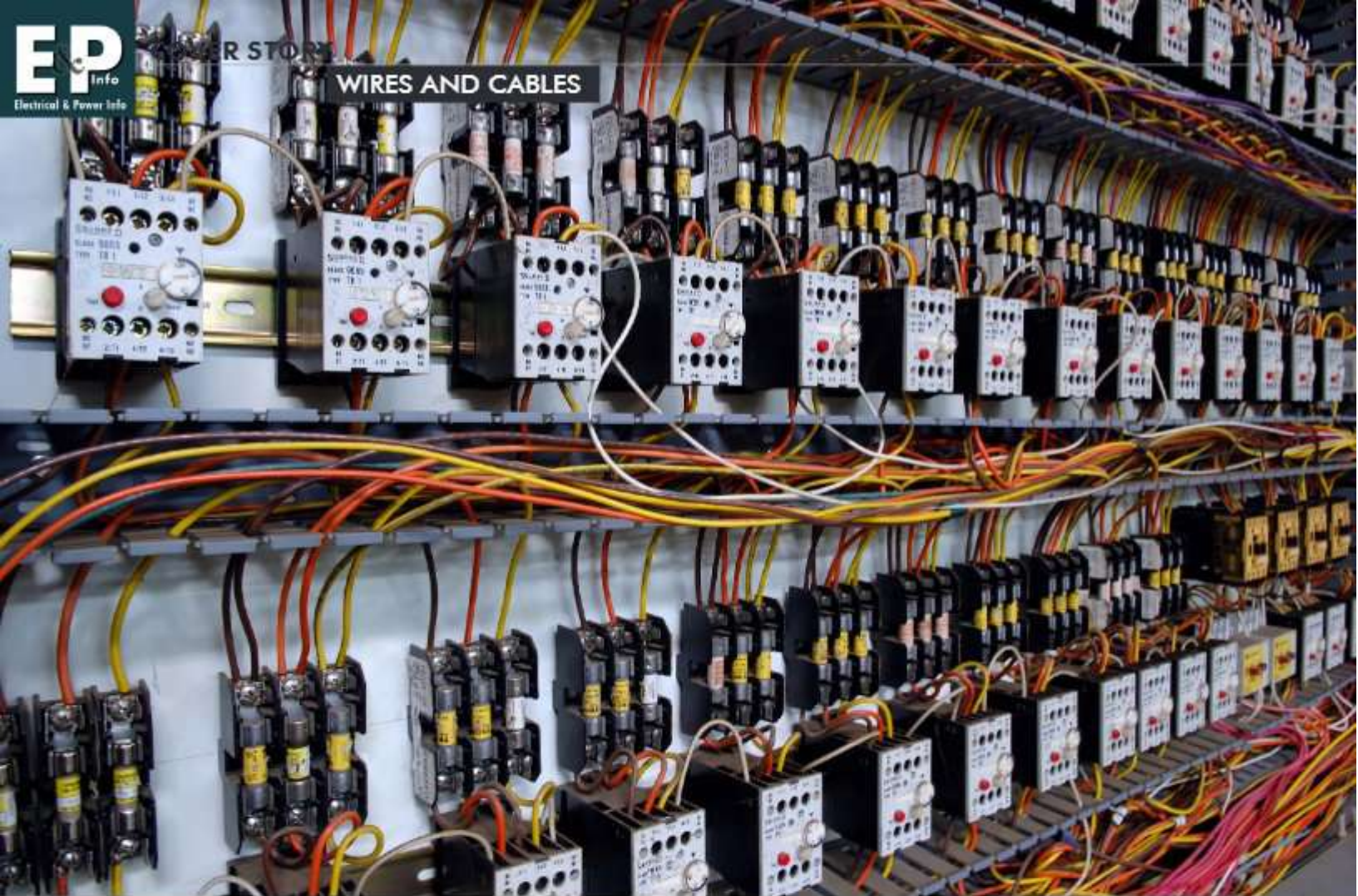


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positively impact industry statistics. The growing preference for miniaturization and flexible designs in electronic devices and systems is expected to encourage the adoption of low-voltage cables in the industry. However, the growing need for high-speed data transmission in applications, including 5G networks, cloud computing, and IoT devices, to support higher bandwidths and faster data transfer rates, will stimulate industry statistics.

### **Infrastructure Growth:**

The demand for wires and cables in India is closely tied to infrastructure development. With various infrastructure projects, including smart cities, power transmission, and renewable energy initiatives, the wires and cables sector may experience growth.

### **Renewable Energy Projects:**

As India continues to focus on increasing its

renewable energy capacity, there might be an increased demand for specialized cables used in solar and wind power projects.

### **Technological Advancements:**

Innovations in cable technology, such as high-efficiency conductors and fire-resistant materials, may impact the market. Companies investing in research and development to improve

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*“The growing need for high-speed data transmission in applications, including 5G networks, cloud computing, and IoT devices, to support higher bandwidths and faster data transfer rates, will stimulate industry statistics.”*

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the performance and safety features of their products could gain a competitive edge.

**Government Initiatives:**

Policies and initiatives by the government, such as the ‘Make in India’ campaign, could impact the manufacturing and production aspects of the wires and cables sector.

**Global Trends:**

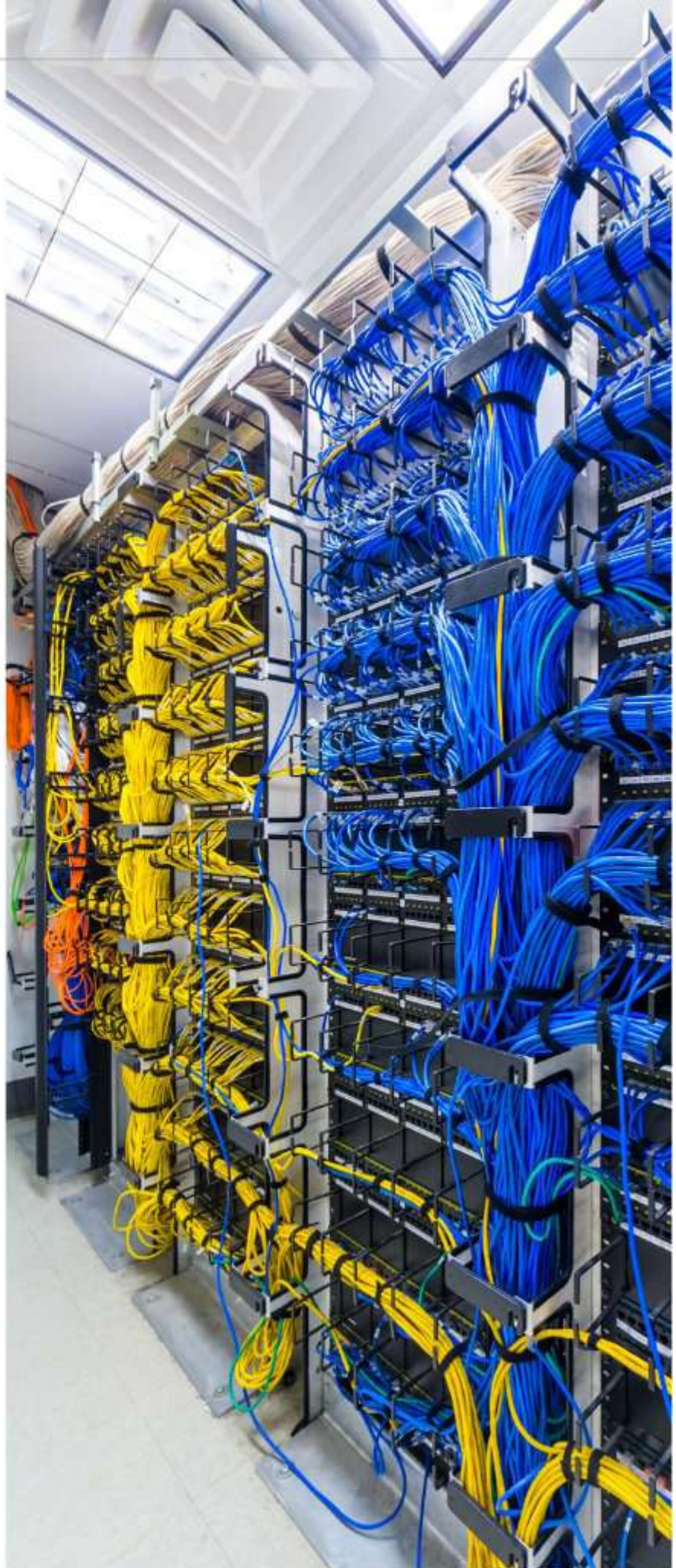
Global trends in sustainability and eco-friendly materials may influence the choices made by companies in the wires and cables industry. There might be a shift towards environmentally friendly materials and manufacturing processes.

**Supply Chain Challenges:**

Like many other sectors, the wires and cables industry may face challenges related to the global supply chain, raw material prices, and logistics. These factors can affect production costs and, subsequently, product pricing.

**Digitalization and Connectivity:**

With the increasing emphasis on digitalization and connectivity, demand for high-quality data cables for telecommunications and IT infrastructure may see growth.



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*Paramount Wires & Cables has built a legacy of excellence through its commitment to quality, innovation, and reliability. With a history spanning decades, the company has consistently delivered top-notch products, earning the trust of customers globally. Their dedication to technological advancements and stringent quality control measures has set industry standards, positioning Paramount as a symbol of reliability in the field of wires and cables.*



## HISTORY

“Paramount Wires & Cables” a Leading Brand in Wires & Cables Industry with over six decades of operations was founded in the year 1955 was set up as a family venture by Late Mr. Shyam Sunder Aggarwal, the founder chairman. After its success, he established a new unit under the name Paramount Cable Corporation in 1978 and started supplying telecom cables to the Department of Telecommunications.

These humble beginnings with years of hard work, eventually transformed into Paramount Communications Limited and grew manifold to become one of the largest and most trusted names in the Indian cable manufacturing industry, the group has built up a portfolio spanning a comprehensive range including HV & LV Power Cables, Optical Fiber Cables & other Telecom Cables, Railway Cables, Specialized Cables, Instrumentation & Data Cables, Fire Survival Cables etc. Focused on manufacturing excellence, technological advancement and customer satisfaction, Paramount continuously strives to meet & exceed global quality benchmarks and to provide total cabling solutions for its customers. Paramount has consistently been recognized as one of the ‘Top 1000 Companies in India’ in the annual listing compiled by Business Standard Magazine.

# MAKE IN INDIA INITIATIVE



As a part of **Make in India** initiative launched by Prime Minister in September 2014 as part of a wider set of nation-building initiatives devised to transform India into a global design and manufacturing hub, Paramount has built a strong export base. Paramount has executed orders for reputed international corporations and agencies in various countries such as USA, UK, Spain, Russia, South Africa, UAE, Jordan, Oman, Kuwait, Qatar, Iraq, Sri Lanka, Ukraine, Chile, Tanzania, Ghana, Kenya, Zambia, Nepal, Bangladesh, and Nigeria. We have, for instance, executed orders for large projects for Oil and Power companies in Iraq and Oman. We are one of the largest cable suppliers into the USA market from India. In FY23, approximately 50% of the company's revenue came from exports. Paramount holds a wide range of UL approvals and has thus positioned itself very strongly in the North American electrical market.

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**Sri Vinay Rathi**  
Director,  
Gloster Cables LTD.

“Innovations in materials and manufacturing processes result in higher quality cables with improved durability and performance.”

### How do you ensure compliance with industry standards and regulations?

We ensure compliance with industry standards and regulations through rigorous testing protocols conducted at various stages of production. Dedicated quality assurance teams meticulously monitor manufacturing processes to adhere to standards such as ISO. Regular audits and certifications verify compliance with regional and international regulations, including safety codes and environmental mandates. Collaborations with industry associations and participation in standard-setting committees facilitate staying updated with evolving regulations. Continuous staff training programs ensure employees are knowledgeable about compliance requirements, fostering a culture of adherence within the organization.

### How do technological advancements impact your production efficiency and product quality?

Technological advancements in the cable industry enhance production efficiency through automation, reducing manual labour and minimizing errors. Innovations in materials and manufacturing processes result in higher quality cables with improved durability and performance. Integration of smart sensors and monitoring systems ensures real-time quality control, detecting defects early in the production process. Enhanced data analytics enable predictive maintenance,

optimizing equipment uptime and reducing downtime. Overall, these advancements streamline operations, boost productivity, and elevate the quality standards of cable products.

### What market trends or changes have you observed recently?

In India's electrical industry, there's a noticeable shift towards renewable energy solutions, with a focus on solar and wind power generation. Government initiatives promoting clean energy adoption and electrification of rural areas are driving market growth. Technological advancements, such as smart grids and IoT-enabled devices, are reshaping infrastructure development. Additionally, there's a growing demand for energy-efficient appliances and LED lighting solutions. The industry is also witnessing increased investment in electric vehicle charging infrastructure to support the transition towards sustainable transportation.

### How do you ensure a skilled and motivated workforce?

To ensure a skilled and motivated workforce, we prioritize ongoing training and development programs tailored to individual needs. Foster a culture of recognition and reward for achievements, encouraging employees to excel. Provide opportunities for advancement and clear career paths to inspire ambition. Regularly solicit feedback and implement suggestions to show employees their voices are valued. Lastly, maintain open communication channels and support a healthy work-life balance to sustain motivation and productivity.



## Our Products

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Copper Braided Strip

Copper Conductors

Copper Wires

Braided Copper Wires

Copper Rope Conductor

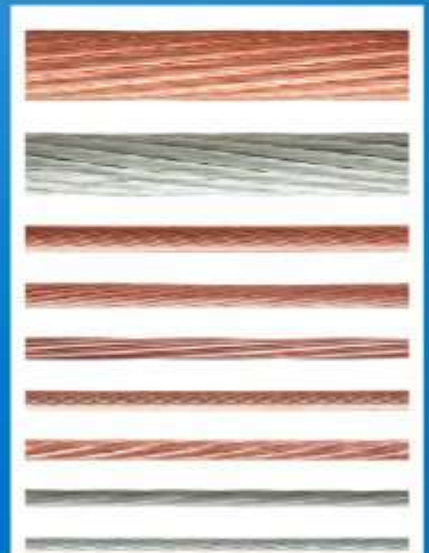
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Tinned Copper Wire

Silver Copper Wire

Braid Assembly



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**Web** : www.gujaratwiremetal.com



## A Proud Partner in the Growing Demand for Secure Cable Connections



“ Atlas Metal has established ourselves as a leader in the metal industry due to our commitment to honesty, integrity, and humility. These fundamental values have always guided us to go beyond customer satisfaction

**Rajesh Changani**  
Managing Director, Atlas Metal Industries Pvt. Ltd.

The demand for secure cable connections is increasing rapidly, and imarcgroup.com has recently published an article that sheds light on this trend. As per their analysis, the market for secure cable connections will experience significant growth in the upcoming years. We, at Atlas Metal, are thrilled to be a proud partner of this growth, and our extensive range of electrical and lightning safety solutions are well-suited to meet the demands of the market.

As a leader in the metal industry for over 25 years, Atlas Metal has extensive expertise in manufacturing high-quality electrical and lightning safety solutions. Our products, available under the banners, ATCAB and ATFIT, include cable glands, earthing accessories, cable lugs, conduit fittings, cable cleats, cable ties, brass pipe fittings, brass compression fittings, and precision turn components. All these products are trusted and widely accepted in more than 30 countries due to their superior quality, versatility, and durability. We, at Atlas

Metal, are also proud to have received several certifications such as ATEX, IP68, UL, CE, and many more that certify our excellence.

Our modern and state-of-the-art manufacturing technology and machinery unit in Jamnagar (Gujarat) enables us to customise products as per the client’s requirements. We ensure that our customised products are of the best quality and satisfy the customer’s expectations at a competitive price.

We have established ourselves as a leader in the metal industry due to our commitment to honesty, integrity, and humility. These fundamental values have always guided us to go beyond customer satisfaction. The commitment to delivering high-quality products and services to customers and clients sets us apart within the industry. With constant innovation and introduction of new products, we aim to stay ahead of the curve while meeting the ever-changing needs of the market.

“ As a leader in the metal industry for over 25 years, Atlas Metal has extensive expertise in manufacturing high-quality electrical and lightning safety solutions



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**Dylan D'Souza**  
Managing Director,  
Flucon Components Pvt. Ltd.

**Brief us about Flucon Components, its operations and presence in India?**

Flu-con enterprises founded in the year 1972 in the name of “Nylo-plast” by Mr. F. B. Pinto was a pioneer in the field of industrial polymers, such as nylon at the inception of materials, which were just being introduced in the industry in India. He had started the company on its growth trajectory in terms of dedication and superior quality to each and every product manufactured and sold at “FLU-CON ENTERPRISES”.

The same Flu-con enterprises are being run and managed by young professionals who believe and work keeping in mind the values of its founder to take the company to ever greater heights and to fulfill the vision of the founder. As ISO 9001-2015 certified organization, also in the process of product certifications for various products in conformation to industrial standards. **FLU-CON ENTERPRISES** is now known as “**FLU-CON COMPONENTS PVT LTD**” Over the years the company has progressed from accessories manufacturing to Complete product manufacturing by focusing mainly on the electrical segment.

**FLU-CON Components Pvt Ltd** is involved in the manufacture and delivery of effective engineering products mainly for electrical & switchgear, measuring and control panel industry, machineries and equipment manufacturers and Railways equipment.

**Our Strength:**

**Flu-con Components Pvt Ltd** is well equipped to

produce articles and components in the range of 5 gms to 1200gms with a varied range of high quality machinery and equipment. The organization is well equipped with in-house tool & die machine shops maintained and operated by qualified personnel committed to quality.

Flu-con has an in-house fully equipped laboratory for various tests in electrical like HV testers, IR test, IP test for water and dust protection and materials testing equipment.

Flucon has a vast pool of qualified engineers and Staff for delivering quick responses to customer queries, complaints etc. With a dedicated focus on customer satisfaction to deliver high quality product.

**What are the priority areas that must be addressed to achieve the development agenda in the Cable sector? And also in the Control Panel sector in India?**

The priority areas for cable and panel sectors should be sustainable and inclusive development of infrastructure growth reaching to the very heartland of rural India.

Quality in this development should be given the utmost importance to have long term and sustainable growth.

In urban areas priority should be accorded to redevelopment and overhauling of ancient infrastructure which will give a push to industry with renewed demand.

**What are your latest innovations for cable accessories and also control panel accessories?**

Flucon Has added new manufacturing capabilities towards Manufacturing various panel accessories and has recently ventured into Indian Railways by supplying of cable harness, Cable conduits and its adaptors, Cable ties in high temperature and low temperature, Metal detect cable ties, Wheel sets and earthing equipment for bogies, Air blowers for exhaust and ventilation in train lavatories ETC.

Also we have implemented an efficient industry 4.0 methodology for being future ready and in anticipation of good demand from the cable and panel industry.

**What are your green initiatives?**

Fucon is in talks with various Industry suppliers to manufacture Bio Degradable plastic products from new and innovative raw materials as available in the industry.

**Share us something on your future watch?**

Future of Flu-con is its fast growth trajectory and addition of high value products from new and challenging innovative materials.



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Tube Clamp



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Tel No: 0251-2422290, 2470121 | Web: [www.flucon.co.in](http://www.flucon.co.in)

In a momentous accomplishment, the **Central Power Research Institute (CPRI) Bhopal**, a prominent third-party organisation under the Ministry of Power, Govt. of India, has awarded Servokon Systems Limited with Type Tests & Special Tests certificates on **5 MVA (33/11) Power Transformer**. The successful completion of Type Tests & Special Tests on a transformer of this high rating highlights Servokon's pioneering achievement, a testament to the strength of domestic manufacturing and engineering capabilities. This milestone not only marks a significant achievement for Servokon, standing as an impressive technical feat within the industry, but it also coincides with the company's wholehearted embrace of the new year, symbolizing a rejuvenated beginning and auspicious prospects.

**Mr. Haji Kamruddin, Founder and Managing Director of Servokon Systems Limited**, expressed his satisfaction, stating, "Receiving Type Tests & Special Tests certificates on the 5 MVA (33/11) Power Transformer from CPRI Bhopal is a testament to our dedication to delivering reliable and high-performance power transformers. These certifications reinforce Servokon's position as India's leading power conditioning equipment and transformer manufacturer. Obtaining these certificates from CPRI, whose reputation and international standing further emphasise our commitment to excellence, contributes to buyer confidence.

Servokon's CPRI-approved 5 MVA (33/11) power transformer is poised to substantially impact India's energy landscape. This milestone aligns with the Ministry of Power's Revamped Distribution Sector Scheme (RDSS), addressing discoms' challenges and supporting



**Haji Kamruddin**  
Founder (Servokon Systems Ltd.)

economic growth, environmental sustainability, and the vision of Prime Minister Shri Narendra Modi's *Viksit Bharat @2047* as India embarks on a journey towards energy independence. Servokon's contribution strengthens India's power sector, aligning seamlessly with the nation's journey towards becoming a developed nation by its 100th year of independence.

Servokon Systems Limited continues to lead the way in setting benchmarks for quality and reliability in the power transformer industry. This certification from CPRI Bhopal serves as a testament to their unwavering commitment to excellence and innovation.

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## Hitachi Hi-Rel's Impactful Presence at India Energy Week (IEW) 2024 Exhibition during 6-9 Feb. 2024 at Goa, India



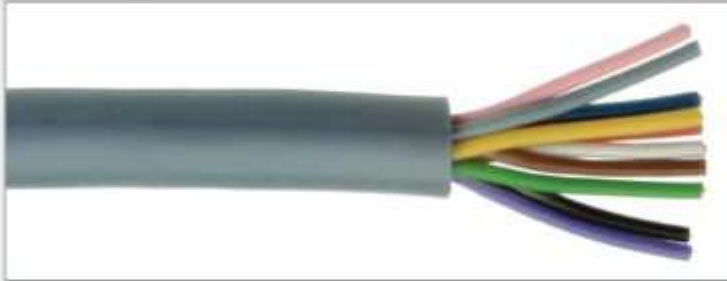
Hitachi Hi-Rel Power Electronics Private Limited had an impactful presence at the recently concluded India Energy Week 2024 exhibition held in Goa, India from 6th to 9th February 2024. Our participation was met with enthusiasm and engagement from a diverse audience, including representatives from all the larger Public sector units and Private Sector Players both from India and also from visitors across the globe.

India Energy Week 2024 is India's largest and only all-encompassing energy exhibition and conference. It brings together the entire energy value chain to catalyse India's energy transition goals. The event was organized against the scenic backdrop of Goa, known for its spirit of hospitality, natural beauty, and vibrant culture. The honourable Prime Minister of India, Shri Narendra Modi, inaugurated India Energy Week 2024. His presence emphasized the significance of this event in shaping India's energy landscape. During the inauguration, the Prime Minister emphasized India's commitment to environmentally conscious energy sources and the expansion of the energy sector in our growth story.

Our senior management team played a pivotal role in representing Hitachi Hi-Rel Power Electronics Private Limited at India Energy Week 2024. We were honoured to have the esteemed presence of Mr. Darshan N Shah, President - Sales & Marketing (Chief Sales & Marketing Officer), Mr. Aniruddh Brahmabhatt, Vice President - Business Execution and Mr. Ramesh Ramanand, Vice President - Research & Development and Engineering. Their active participation, along with other senior sales

and marketing officials from our organization, reinforced our commitment to excellence and positioned us as a driving force in the energy and power electronics sector. Commenting on the participation at India Energy Week 2024 Exhibition, Mr. Darshan N Shah, President - Sales & Marketing (Chief Sales & Marketing Officer) of Hitachi Hi-Rel Power Electronics Private Limited, said, "Our participation at India Energy Week 2024 was more than just an exhibition; it was a strategic networking opportunity with prominent players in both Oil & Gas & Energy space. As we engaged with senior officials from both public and private sector players, we reinforced our commitment for the collaborative growth. The energy landscape is evolving rapidly, and our interactions during the event allowed us to explore synergies, forge partnerships, and position ourselves as a trusted partner in India's energy transformation. We believe that such strategic engagements will continue to propel our company forward and contribute to the advancement in the core segments like Oil & Gas & Energy."

As Hitachi Hi-Rel Power Electronics, we showcased our cutting-edge Power Electronics Products and Solutions, including Industrial UPS and Medium Voltage Drive (MVD) prototype product models. Our participation allowed us to engage with industry leaders and experts. We are proud to contribute to India's Oil & Gas sector & also in energy transition and play a pivotal role in shaping a sustainable future. With four days of high action, meeting numerous existing and potential customers with visitors from public and private sectors, Hitachi Hi-Rel's presence was well received.



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India is evolving into a very promising market for many a business venture, irrespective of their industry verticals. If we see it from a perspective of wire and cable manufacturers, the market is going through some major disruptions - factors driving it are growth of automobile industry, rise in electricity consumption, and the economic growth as a whole. However, majority of cables are still being imported to meet the current demand of the market as customers are becoming more quality conscious than ever. Understanding the current need of various industries for a cost-effective, but global standard wire/cable products is a Bangalore based Paras Wires, founded in 1987 - a bootstrapped company that has come a long way since its inception to become one of India's leading Wire and Cable Manufacturers. Assuring a better price without compromising on product's quality has always been fundamental for Paras Wires' in serving its niche customers across industries. While thinking much ahead than what current market has to offer has been the key factor that has enabled Paras Wires to have numerous successful use cases across various clients; their decades of experience has made them adept at delivering quality and innovation to its clients.



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## Hon'ble Prime Minister Shri Narendra Modi to dedicate 300 MW Nokhra Solar Project of NTPC Green Energy Ltd to the nation



Hon'ble Prime Minister Shri Narendra Modi will dedicate the 300 MW Nokhra Solar Project of NTPC Green Energy Limited to the nation through video-conferencing on 16th February, 2024.

Spread over 1550 acres in Bikaner district of Rajasthan, the project is being executed under the CPSU Scheme (Phase-II) with an investment of Rs 1803 crore to ensure green power to the state of Telangana.

With generation of 730 million Units per year, this project will not only light up over 1.3 lakh households, it will also help restricting 6 lakh tonnes of carbon dioxide (CO<sub>2</sub>) emission every year. Going forward, the project is expected to restrict CO<sub>2</sub> emission to the tune 15 million tonne in a span of 25 years.

Over 13 lakh solar PV modules have been installed in this project under the flagship Make-in-India programme, thereby strengthening Govt of India's resolve of Atmanirbhar Bharat.

As NTPC is actively pursuing a "just transition" by incorporating more and more clean energy into its portfolio, this project will play a key role in reducing carbon emissions, thus contributing to a more cleaner and sustainable energy future.

NGEL is a wholly-owned subsidiary of NTPC and aims to be the flag bearer of NTPC's Renewable Energy journey with an operational capacity of over 3.4 GW and 26 GW in pipeline including 7 GW under implementation.

NTPC Limited is India's largest integrated power utility having 74 GW installed capacity that contributes 25% of total electricity produced in India. By 2032, NTPC is looking to expand its non-fossil based capacity to 45-50% of the company's portfolio that will include 60 GW RE capacity with a total portfolio of 130 GW. NTPC has partnered with Niti Aayog to strengthen India's Net Zero efforts.



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# The Asia Pacific market is experiencing significant growth in Test and Measurement sector

The Asia Pacific market is experiencing significant growth, driven by factors such as a rising number of original equipment manufacturers and semiconductor device manufacturers, along with the expansion of mobile operators and a thriving telecom industry. The increasing emphasis on digitalization and e-health further contributes to the growth of the test and measurement equipment market in the region. China, recognized as a global manufacturing hub in electronics, semiconductors, and automotive industries, plays a pivotal role. Despite the pandemic's impact on China's GDP, the country successfully controlled the virus spread, minimizing its economic repercussions. China is poised to emerge as the only major economy avoiding contraction, surpassing global peers, including the US.

“The increasing emphasis on digitalization and e-health further contributes to the growth of the test and measurement equipment market in the region.”







Amidst the trade war with the US, China redirected its focus to European and Asian economies. European countries perceive China as a potential growth source in the post-pandemic world. In December 2020, the European Union finalized a comprehensive investment deal with China, fostering increased trade volumes, particularly in high-quality products like medical devices and wireless communication devices. This development is expected to intensify the commitment of Chinese manufacturers to meet growing demands, necessitating extensive use of test and measurement equipment to ensure product quality aligned with EU norms and relevant standards in Asian countries.

Accurate testing and measurement are crucial in the design and manufacturing of electronic systems to ensure product quality. Test and measurement (T&M) systems are vital in validating the performance of various electronic products, particularly as product complexity increases. This demand for precision testing spans the entire product life cycle, from design and development to production testing, pre- and post-market testing, and ongoing support. The growth of the test and measurement industry in India is closely linked to the expansion of the electronics industry in the country. For insights into the latest developments in the T&M space, the Com Connect Consulting team conducted market research.



## ZDT-300 DC Earth Fault Locator

The DC system is crucial for power installations, but earth faults can disrupt vital components like protection systems and circuit breakers. The ZDT-300 DC Earth Fault Locator swiftly detects faults on live systems, aiding in early identification of issues, including high-resistance faults up to 1M $\Omega$ , to prevent subsequent failures.

### Features

- Detection of DC network earth faults on a live system
- Automatic identification of positive and negative DC bus voltages
- Detection of AC interference on the battery system
- Measurement of fault resistance, capacitance to earth and balance resistance
- The transmitter power is taken directly from the system, an external supply. Is only required if the system voltage is too low.
- High sensitivity, up to 1M $\Omega$  for 1000V version; 500k $\Omega$  for 500V version; 250k $\Omega$  for 250V version
- Wireless communication technology provides real-time data transmission, between the transmitter and receiver, conveniently and quickly.
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India has the potential to lead in the next phase of technological innovations. The electronic systems design and manufacturing (ESDM) sector in India has experienced steady growth, expanding beyond system or product design to include areas like product development and original design manufacturing (ODM). This shift presents significant business opportunities in the Indian T&M industry.

The high growth in the Indian T&M equipment market is attributed to technological advancements, increasing end-user applications, and the growing need to validate equipment performance.

Stringent quality, safety, and environmental standards, along with government initiatives such as Make in India, 100 Smart Cities, Digital India, and defense manufacturing, are driving further opportunities for T&M industry players.

Industry experts estimate the current turnover of the Indian T&M market linked to the ESDM industry to be approximately US\$ 150-200 million. However, Frost & Sullivan forecasts that the Indian market for general-purpose electronic T&M instruments will reach US\$ 300 million by 2022, indicating a larger potential market.

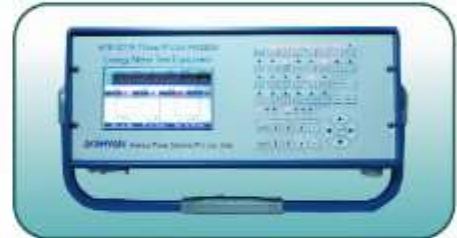


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The company has a vision to serve the global market through latest technological solutions and has the mission to accomplish customer satisfaction through innovative solutions.

**We are excited to inform you that Metrel d.o.o have launched a new product, MI 3281 WR ( Winding Resistance )Analyser.**

A portable transformer tester with a selectable test current of up to 20 A for testing even the biggest power transformers. WR Analyser (MI 3281) is a test instrument with excellent IP protection: IP65 (case closed), IP40 (case open). Standards like functionality C57.12.70, Electromagnetic compatibility EN 61326-1 Safety EN 61010 - 1 EN 61010 - 2 - 030 EN 61010 - 031.

**Functions:**

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- Winding resistance measurement of single and three phase transformer with manual or automatic tap changer test,
- Demagnetization of single and three phase transformer, Auto Sequence\*, Visual Test, Memory

Organizer.

**Features:**

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# Pioneering Excellence: Motwane Manufacturing Redefines the Electrical Testing Horizon with Advanced Solutions



**Anant Krishna Waghchoure**  
National Segment Manager – Projects,  
Railways and Dealers,  
The Motwane Manufacturing Co. Pvt. Ltd.

In the dynamic world of electrical engineering, where precision and reliability are paramount, Motwane Manufacturing Pvt. Ltd stands as a milestone in providing state-of-the-art testing solutions that cater to a diverse range of applications. With a legacy spanning several decades, Motwane continues to be at the forefront of innovation,

consistently pushing boundaries to meet the evolving needs of the industry.

## Digital Insulation Testers: A Shield Against Electrical Breakdowns

Motwane's Digital Insulation Testers have become indispensable tools for ensuring the integrity of electrical systems. These testers play a pivotal role in identifying potential weaknesses in insulation, safeguarding equipment and preventing costly downtime. Whether you are testing motors, generators, or distribution lines, our Insulation Testers provide accurate and reliable results, offering peace of mind to engineers and maintenance personnel.

## Transformer Testing Devices: Revealing the Secrets of Transformers

Transformers are the backbone of power distribution systems, and Motwane's Transformer Testing Devices are designed to ensure their optimal performance.

From assessing insulation resistance to conducting turns ratio tests, our devices empower engineers to diagnose potential issues before they escalate. This proactive approach not only enhances operational efficiency but also extends the lifespan of critical assets.

## Contact Resistance Meters and Low Resistance Meters: Precision at Every Connection

Ensuring low resistance and optimal contact points is crucial in high-current applications. Motwane's Contact Resistance Meters and Low Resistance Meters offer unparalleled precision in measuring the resistance of connections, ensuring efficiency and safety in power distribution networks. These meters are indispensable in industries where the reliability of connections is non-negotiable.

## High Voltage Detectors: Safeguarding Lives and Equipment

Motwane's High Voltage Detectors are designed to provide a safe and reliable method of detecting the presence of high voltage without physical contact. These devices play a crucial role in protecting personnel from electrical hazards during maintenance and troubleshooting activities. With user-friendly interfaces and robust construction, our High Voltage Detectors are trusted by professionals worldwide.

## Cable Fault Locator Van: Navigating the Path to Seamless Connectivity

In an era where uninterrupted connectivity is crucial, Motwane's Cable Fault Locator Van takes center stage. This mobile solution combines advanced technology with mobility, enabling engineers to swiftly locate and rectify cable faults. This translates to reduced downtime and enhanced reliability in power distribution networks.

## Introducing Transformer Test Bench: Elevating Transformer Testing Standards

Motwane is proud to announce the launch of our latest innovation – the Transformer Test Bench. This cutting-edge solution is designed to streamline and automate transformer testing processes, ensuring accuracy and efficiency. With features such as real-time data monitoring and advanced diagnostics, the Transformer Test Bench represents a leap forward in transformer testing technology. Motwane Manufacturing Pvt. Ltd remains committed to excellence, continuously evolving to meet the demands of an ever-changing industry. Our comprehensive range of testing solutions, coupled with the introduction of innovative products like the Transformer Test Bench, reinforces our position as a pioneer in the field of electrical testing.

As we look to the future, Motwane will continue to innovate, setting new benchmarks and contributing to the success of our partners in the global electrical engineering community.



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# 3 PHASE PRECISION POWER ANALYZER, PA-15001

Quality | Accuracy | Reliability



A Power Analyzer is used to measure the Flow of Power (W) in an Electrical System. NMC Power Analyzer is suitable for the Testing of Distribution as well as Power Transformers, Motors, Pumps etc..

### KEY FEATURES:

- Microcontroller Based Architecture.
- User friendly & easy operation with using 6 key.
- Accurate Measurement at Low PF.
- TRMS Voltage Measurement up to 1500V (Phase to Neutral & 2600V (Phase to Phase).
- (Phase Voltage) Direct Measurement without using PT.
- TRMS Current Measurement up to 100A Direct Measurement Without using CT.
- CT & PT Power Scaling Facility available.
- Test Mode: 1-Phase 2 Wire, 3-Phase 3 Wire, 3-Phase 4 Wire.
- 20 X 4 Jumbo LCD Display.
- Panel Mountable Enclosure as well as Table Top Enclosure.
- USB Port for Communication.
- Temperature proof calibration for stability.
- Measurement Speed Selectable: Slow / Medium / Fast.
- Accuracy 0.1%.
- Multiple Screens for Better Visibility and Convenience Reading.
- Various Parameters can be seen on 7 Segment Led Screen.
- Real time clock and Date.
- User friendly Interface.

### MEASUREMENT SCOPE :

- TRMS Voltage, Phase to Phase Voltage, Mean Voltage, Peak Voltage, Crest Factor, Form Factor.
- TRMS Ampere & Frequency.
- Active Power (P), Apparent Power (S), Reactive Power (Q), Power Factor (PF) (3-Phase).

### GENERAL SPECIFICATION :

|                                 |  |
|---------------------------------|--|
| Number of Channels :            | 3 Channels of Voltage & 3 Channels of Current                          |
| Operating Temperature :         | 0°C to 85°C  |
| Operating Humidity :            | 20% to 80% RH (non condensation)                                       |
| Maximum Direct Voltage Input :  | 1500V Phase to Neutral & 2600V Phase to Phase                          |
| PT Ratio / Voltage Multiplier : | 1 to 500 Ratio   |
| Maximum Direct Ampere Input :   | 100A Direct  |
| CT Ratio / Ampere Multiplier :  | 1 to 500 Ratio   |
| Display :                       | LCD 20 x 4, jumbo Character, Blue White                                |
| Storage Temperature :           | -20 °C to 50 °C  |
| Power Supply :                  | 85V-305V AC/DC   |
| Power Consumption :             | ≤ 30 VA  |
| Input Terminal Type :           | Voltage: Banana Terminals   Current: Binding 1/4" Copper Stud with Nut |
| Weight :                        | 3.200 Kgs Approx   |
| Dimension (W X D X H) :         | 376mm (L) * 133mm (H) * 235mm (D)                                      |
| Panel Cutout Size :             | 332mm (L) * 133mm (H)  |
| Enclosure :                     | Aluminum Cabinet with Powder Coated, SS Handle & Rubber Fitted Leg     |

Note: • All the Specifications are subject to change without prior notice, Please confirm at that time of placing order.

- Size & weight may change without prior notice. (Different Models)
- Standard Warranty 1 Year (Other available on request).

Product Specifications are subject to change without notice

Manufactured by:

### NEUTRONICS MANUFACTURING PRIVATE LIMITED

Gala No. 94, Building No. 5/C, Akshay Mittal Industrial Estate, A. K. Road, Marol, Andheri (E),

Mumbai - 400059, India. Tel.: 022-2859 0745 / 2859 1296, Mobile: 91-98194 50890, 98190 70556.

E-mail: sales@neutronics.co.in | mehul@neutronics.co.in | bhavin\_nmc@yahoo.com | nmcinstruments@gmail.com

Website: www.neutronics.co.in | http://www.indiamart.com/neutronicsmanufacturingcompany/





NEUTRONICS MANUFACTURING PRIVATE LIMITED

DIGITAL TRANSFORMER BDV OIL TEST SET

3 PHASE PRECISION POWER ANALYZER



Fully Automatic Transformer BDV Oil Test Set



Transformer BDV Oil Test Set (Compact)



Model: DMOT-60



Model: DMOT-100



Model: DMAN-60

AUTOMATIC VOLTAGE REGULATING RELAY



H-101



V-101



SQ-01



H-101T



V-101T

AC/DC HIGH VOLTAGE TESTER



AC/DC High Voltage Divider



AC/DC Combined High Voltage Test Set



5kv Digital High Voltage Breakdown Test Set

AUTOMATIC CIRCUIT BREAKER TIMER KIT



Fully Automatic Transformer Turns Ratio Tester, TTR-10K

Model: CBT-01



Model: CBT-01PC



SINGLE PHASE RELAY TEST SET  
Model: RNT-5



Model: RNT-5A



Automatic Capacitance and Tan Delta Test Set, CTD-12

DIGITAL TAP POSITION INDICATOR



TX-201



TX-202



TX-203



TX-204



TX-205



Digital HV Controller



Digital Set Point Relay, MRD-2011A



Automatic 3 Phase 6 Current Relay Test Set, NRTS-661



Fully Automatic CT & PT Analyser, CPT-1200



Primary Current Injector, 3000-4V



Digital Micro OHM Meter, LR-1A



Fully Automatic Contact Resistance Tester, CRM-100PC

Manufacturers of :  
Electrical and Electronics  
Testing and Measuring  
Instruments and HV Transformers



Gala No. 94, Building No. 5/C, Akshay Mittal Industrial Estate, A. K. Road, Marol, Andheri (E), Mumbai - 400059, India.

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www.neutronics.co.in | http://www.indiamart.com/neutronicsmanufacturingcompany/



Nowadays, energy management is not only relevant for the environment and for society worldwide, but is also a critical competitive factor. Only those closely monitoring their energy consumption can reduce costs and increase efficiency.

Janitza Electronics GmbH, a German company based in the Hessian town of Lahnau, which followed in 1986. The product range offered by Janitza provides complete system solutions for modern energy data management (e.g. ISO 50001), power quality and residual current monitoring. Janitza develops and manufactures a complete range of products (hardware and software) from Lahnau, Germany.

Energy efficiency, sustainability, high availability, and safety requirements are increasing regardless of the industry. To meet all these requirements, necessitates maintaining a holistic perspective on energy. Janitza goes far beyond pure energy measurement and combines energy management, power quality and residual current monitoring into a holistic measurement solution in a single-system environment. A central aspect of Janitza's products is to make energy flows and consumption transparent. This transparency forms the basis for the analysis and optimisation of energy usage.

Alongside measurement devices and software, Janitza offers the associated services – a complete solution that guarantees efficient energy management. This includes Energy measurement technology, class A network quality analysers compliant with standard EN 50160, energy management systems, digital integrated measurement devices, and power quality analysers.

Janitza implements projects worldwide in energy

management, power quality and residual current monitoring. Being directly accessible to our customers in markets is important to us. We have our own technical sales offices in six regions and, together with our strong partner network, we are available to customers worldwide, including India. We also support our customers by training their employees helping

to analyse and evaluate measurement data. We cover all major market segments, such as industry, building services engineering, energy suppliers and data centres, and are constantly finding new solutions.

Our 3-in-1 concept relies on the building blocks of energy management, power quality and residual current monitoring. We offer the appropriate measurement technology, support you in the analysis and create individual solutions for protecting your systems and equipment.

“In a time when the impacts of climate change are becoming increasingly evident, companies must actively contribute to reducing the carbon footprint, the global problem. Determining current emissions is an important step, especially when considering emissions from energy sources such as natural gas and fuels at the site. Janitza's energy measurement devices offer an excellent solution for precisely measuring these energy flows. They not only ensure accurate measurements but also comply with all applicable standards.

The GridVis® power grid monitoring software enables quick and easy energy consumption tracking and supports determining the carbon footprint. Energy consumption can be compared and evaluated across periods, locations, and consumption media, allowing for the identification of potential savings and weaknesses through data visualisation.

Janitza's energy measurement technology solutions are always up to date and support compliance with standards such as EN 50001 or EN 50160, as well as reduction of carbon emissions.

# JANITZA'S UMG 96-PQ-L POWER ANALYSER WITH 10 YEARS OF DATA IN MEMORY

**Janitza®**



### TRULY MULTIFUNCTIONAL



### ENERGY MANAGEMENT

- Class 0.2S
- Helps to identify savings
- Consumed and delivered energy

### POWER QUALITY

- Harmonics current up to the 65th harmonic
- 13.67kHz sampling frequency
- Harmonic spectrum on display

### MODULARITY

- Temperature measurement
- Ethernet interface and Modbus gateway
- Residual current measurement or DC power measurement



### INTEGRATED MAX MEASUREMENTS

- Top 3 demand values for Current, Active power and Apparent power

### GRAPHICAL DISPLAY

- Oscilloscope function
- Phasor diagram on the display
- Three years monthly consumption on display
- Overrange alarms on display

### COMMUNICATION

- Master/slave function
- RS-485 –Baud rate upto 115kbps
- Exhaustive parameters on MODBUS Registers
- Frequently used Registers for easy polling
- 200ms update MODBUS Registers
- Ethernet interface (Optional)

MADE IN GERMANY



#### For More Information

Website : [www.janitza.com](http://www.janitza.com)  
 Contact : [hari.bala@janitza.de](mailto:hari.bala@janitza.de) / [rudolf.schmidgeisler@janitza.de](mailto:rudolf.schmidgeisler@janitza.de)  
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Janitza electronics GmbH  
 Vor dem Polstück 6, 35633 Lahnau, Germany  
 Phone : +49 6441 9642-0  
 Email : [info@janitza.de](mailto:info@janitza.de)

Testo is a world leader in design, development and manufacturing of electronic portable test and measuring instruments. Backed by more than 66 years of measurement engineering experience, Testo as a group is headquartered in Lenzkirch, Germany.

Established in 2006, **Testo India Pvt. Ltd.**, a 100% subsidiary of Testo SE & Co KGaA has shown phenomenal growth, with its H.O. in Pune, & a PAN India sales network.

At Testo, you will find all of the measuring technology you need to efficiently adjust heating, air conditioning, ventilation and refrigeration systems as well as electrical installations. Testo is a market leader in measuring instruments & technology specially for HVACR and facility management industry, providing instruments such as Digital refrigeration manifolds, Air capture hood, IAQ & IEQ measuring instruments, Ambient climate monitoring data loggers, Smart Probes and many more.

**Our product range:**

- Portable Measuring Instruments & Systems for: Temperature, Humidity, Dew point, Pressure, Air velocity, Indoor air quality, RPM, Sound, Light, Compressed Air Flow, Electrical Measurement
- Data Loggers and Wireless Data Monitoring System
- Portable Flue Gas Analyzers for Combustion and Emission Analysis
- Thermal Imagers for Predictive and Preventive Maintenance

Testo now offers end to end solution as well in the form of

- Dedicated digital food quality management system for hotel & restaurant chains
- Testo Saveris environmental monitoring system for Pharma division.

**Service & Calibration:**

Located at our Head Office in Pune, Testo India has a **high quality NABL accredited service & calibration lab**. Instruments of any brand/make can be calibrated and serviced locally maintaining international standards.

We undertake calibration jobs for temperature: contact as well as non-contact, humidity, pressure, air velocity, RPM, sound, flue gas & dew point instruments.



## Are You Facing Safety Problems In Your Company ?

**KUSAM-MECO**<sup>®</sup> Offer a full range of high safety 'UL' listed Digital Multimeters / Clampmeters / Insulation Resistance Testers. These instruments have surge protection ranging from 8KV ~ 12KV.

### Why **KUSAM-MECO**<sup>®</sup> 'UL' listed Multimeters / Clampmeters / Insulation Resistance Testers ?

- ▶ They are 'UL' / ETL. listed ensuring high safety & superior quality compared to "CE" instruments.
- ▶ They have fire resistant Poly Carbonate body which suppresses fire unlike other instruments made from ABS.
- ▶ Class IV 600V / III 1000V safety Protection.
- ▶ All Multimeters have HRC fuse to prevent damage to meters circuit & the operator if inadvertently wrong input is given to the meter.
- ▶ High reliability & repeatability.
- ▶ Splash proof construction.
- ▶ Strong Holster to prevent the instrument from mechanical damage if dropped accidentally.
- ▶ High safety even for Resistance / Capacitance / Temperature range (1000V DC).
- ▶ 2 years warranty.



### Recommended For Following Industries

Cement Industry



Railway Industry



Steel Industry



Power Industry



Chemical Industry



Pharmaceutical Industry



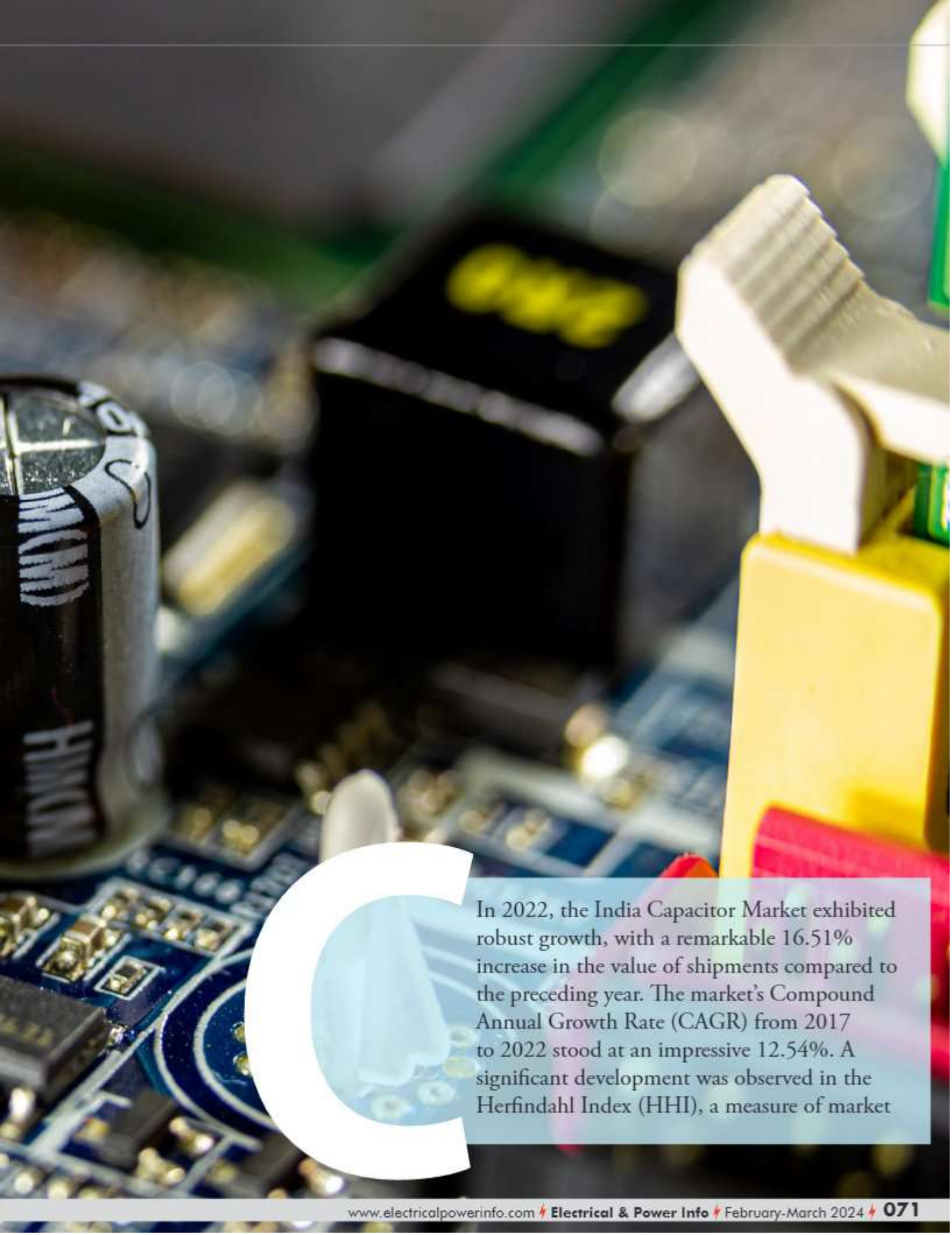
Automation Industry

TO VIEW THE FULL DETAILS OF EACH PRODUCT VISIT : [www.kusamelectrical.com](http://www.kusamelectrical.com)

01/2024



# The India Capacitor Market



In 2022, the India Capacitor Market exhibited robust growth, with a remarkable 16.51% increase in the value of shipments compared to the preceding year. The market's Compound Annual Growth Rate (CAGR) from 2017 to 2022 stood at an impressive 12.54%. A significant development was observed in the Herfindahl Index (HHI), a measure of market

competitiveness, which declined from 2572 in 2017 to 2450 in 2022. This reduction in HHI signifies a growing competitive landscape within the Indian Capacitor Market. However, it's noteworthy that India augmented its domestic demand with increased reliance on capacitor imports during this period.

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**“The market’s Compound Annual Growth Rate (CAGR) from 2017 to 2022 stood at an impressive 12.54%. A significant development was observed in the Herfindahl Index (HHI), a measure of market competitiveness, which declined from 2572 in 2017 to 2450 in 2022.”**

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Moving into 2023, the HHI marginally rose to 2190, indicating a shift towards a moderately competitive market structure compared to the past. The Capacitor Market in India has undergone noteworthy developments, largely fuelled by escalating demands in key sectors such as automotive, consumer electronics, and renewable energy. The government’s push for renewable energy sources has acted as a catalyst for market expansion, attracting investments and fostering technological advancements within the industry.

Several factors contribute to the growth trajectory of the India Capacitor Market. The surge in demand for consumer electronics, including smartphones, laptops, and portable devices, is a pivotal driver. Simultaneously, the industrial sector’s steady growth, with capacitors



# Globe Capacitors Pvt. Limited

Manufacturer of AC Run & Start Capacitors



## ENGINEERING WITH RESPONSIBILITY

Globe Capacitors Pvt Limited (GCPL) is the largest producer of MPP film AC motor capacitors in India. With over four decades of expertise, our production has grown from 1 million capacitors in 1978 to 70 million capacitors in 2021.

We have 2 manufacturing facilities in Faridabad, an established industrial township near New Delhi, India. The facilities cover an air-conditioned area of 140,000 square feet & a strong workforce of 1200 employees. Globe Capacitors has all the international approvals in terms of performance and safety of its products. The facilities partially run on solar power & we have an installed solar capacity of 100KWh. We strongly believe in manufacturing with responsibility.

With an established presence in the sector, GCPL products are widely used in household appliances in India, United States, Europe, Middle East, Far East and South America.

Our manufacturing equipment is imported from Germany, Korea, China and Japan. Our testing lab is recognized for TMP (Test at manufacturing premises) by TUV Rheinland.



30/8 Industrial Area, N.I.T. Faridabad 121001 (India) Ph: +91 129 4275500 Fax: +91 129 4275555  
Email: info@globecapacitors.com www.globecapacitors.com





finding applications in areas like motor control and lighting, plays a crucial role. Government initiatives, such as the 'Make in India' campaign, have spurred investments in the automobile manufacturing sector, further boosting the Capacitor Market.

Despite facing a temporary setback in 2020 due to the global COVID-19 pandemic, the market is poised for recovery in 2021. This recovery is attributed to substantial investments in the automobile manufacturing sector, with various manufacturers establishing their plants in India as part of the 'Make in India' initiative.



# We Offer Real Power Quality

# Shreem

MV & LV Capacitors



PFC Components



LV APFC Panel



MV Switchgears



MV Capacitors Bank



Lightning Arrester



Structure and Transmission Line



## NEW GENERATION POWER QUALITY MANAGEMENT SYSTEMS

Active Harmonic Filter (SHR-SPC)



Static VAR Generator (SHR-SVVG)



Hybrid PFC (SHR-hSPC)



- Shreem advance power quality products are IGBT based with 3-Level design in modular type in default 3 phase, 4 wire configuration.
- Control philosophy based on closed loop Adaptive Artificial Neural Network (ANN)
- Fully functional Power Analyzer with 15- channel real time Oscilloscope with 7" touch screen display with DSP based digital control.
- PF Compensation, Harmonic filtering, 3 phase Load Current Balancing with by All order harmonics can select to mitigate for 100 % correction with Dynamic Response Time 100  $\mu$ Sec with 20 mS response time
- Power Loss are less than 2 % of equipment rating
- Operating Temperature: 45 deg. C. No de rating required for entire operating range.
- Per phase and No-load KVAR compensation are distinguishing unique feature.
- Cloud connectivity with Wi-Fi, LAN and RS485
- Hybrid PFC is novel combination of active i.e. SVG with Detuned APFC System with common integral Hybrid controller.
- New technology trend over APFC system having Adaptability to Accommodate existing capacitor panel.

## Shreem Electric Ltd.

Corporate Office :  
P.B. No. 43, Industrial Estate, Jaysingpur-416 144  
Dist : Kolhapur, Maharashtra (India).

Tel : +91 2322 221021/22/24/45  
Fax : +91 2322 221023

E-mail : [info@shreemelectric.com](mailto:info@shreemelectric.com)  
Web : [www.shreemelectric.com](http://www.shreemelectric.com)



Looking at specific segments, the super-capacitors category is expected to witness substantial growth, particularly in automotive and automation systems. In terms of applications, the consumer electronics segment remains a key revenue contributor. The comprehensive India Capacitor market report meticulously details products, applications, and regional dynamics, providing valuable insights into ongoing trends, opportunities, and drivers. Over the next six years, the India Capacitor market is projected to experience progressive growth, fueled by an increasing demand for consumer electronics and the burgeoning electric vehicle sector. The electric capacitor market, while demonstrating growth, faces challenges such as limited energy storage capacity. In China, government subsidies for

electronics manufacturing have significantly boosted the capacitor market, while in India, initiatives to transition to hybrid vehicles have stimulated demand for electric capacitors.

The electric capacitor market forecast is segmented by type (plastic film, ceramic, aluminum electrolytic, others), capacity (low voltage, high voltage), and application (power generation, transmission, distribution, others). As of now, Asia-Pacific dominates the market, followed by North America and Europe. The global electric capacitor market is predominantly led by the plastic film capacitor segment. Plastic dielectrics, including polypropylene, polyethylene terephthalate, polyethylene naphthalate, and polyphenylene sulphide, are commonly utilized in thin film capacitors.

33 KV, 10 MVAR, 3 Ph. Cap. Bank With Reactors



Our manufacturing unit is facilitated by advanced machines to design the Dry Type Air Core Reactors with precision. Specialized computer programs ensure perfection in the designing of these Reactors. We offer proper training to the employees to make use of the latest technology to bring forth high quality Dry Type Air Core Reactors.



APFC PANEL - (3.3 KV to 33KV)



Neutral Grounding Resistor



KPTCL 132 KV REACTOR



Vacuum Interrupter  
11 to 33 KV



Vacuum Contactors 1.1 KV to 11 KV

## PRODUCT

- ◆ Dry types Air Core Reactors
- ◆ Current Limiting Reactor
- ◆ Neutral Earthing Reactor
- ◆ Shunt Reactor
- ◆ Iron Core Detuned Filter Reactor
- ◆ APFC panels
- ◆ Capacitor Bank
- ◆ Vacuum Contactors
- ◆ Vacuum Interrupter
- ◆ SF6 Circuit Breakers
- ◆ Neutral Grounding Resistor Panel-3.3 KV to 33KV

- ◆ We are one of the leading manufacturer of Air Core, Resin Impregnated, Aluminium / Copper wound, Dry Type Reactors & Oil Cooled Reactors from 1.1 KV to 220 KV.
- ◆ We supply regularly our Harmonic Filter Reactors to all Steel plants, Cement Industries, Chemical plants & Cap. Manual all over India & Export Market.
- ◆ We supplying our reactors to APFC Panels Manufacturers, Power Consultants, Wind Stations, Distribution Electricity board throughout India.
- ◆ "LAXMI ELECTRONICS" is now having the capacity to manufacturer any range of reactors starting from 3.3 Kv to 245 KV at any kind of conditions as per customers requirement.
- ◆ Our reactors and panels are supplied to countries like Srilanka, UAE, South Africa, Nepal, Indonesia, Turkey, Nigeria Etc.
- ◆ Our "LAXMI ELECTRONICS" make is approved by utilities in India MSEDCL, APSDCL, MSETCL, MP, Chattisgarh.
- ◆ LAXMI ELECTRONICS is supplier of Vacuum Contactors & Vacuum Interrupters from 1.1 Kv to 11 Kv.
- ◆ LAXMI ELECTRONICS is supplier for NGR from 3.3 Kv to 33 KV.

Address: L54, M.I.D.C., Kupwad, Sangli (Maharashtra - India) - 416436 •

Mail: [laxmielectronics2011@gmail.com](mailto:laxmielectronics2011@gmail.com) / [cdjamdar2010@gmail.com](mailto:cdjamdar2010@gmail.com) Mob.: + 91 9422041368 / 9730678770



# Power Factor Controllers

## BR5600 Universal Power Factor Controller



Series: BR5600 (LV / HV)

**Technical data:** •16 steps controller (in both relay and transistorized versions)

- Current input :1A or 5A (1CT/2CT/3CT sensing)
- Supply voltage 90V to 485V L-L / 100V to 550Vdc
- Measurement voltage 50...315V -(L-N) / 85... 550V -(L-L)
- Operating temperature 0°C to 60°C
- Size 144mm x144mm front fascia
- Additional external input (110.... 230V)
- LCD display 16 characters x 2 lines
- User friendly 7 keys soft-touch keypad
- Simple self-explanatory menu navigation
- Plain language menu in English

### Applications:

Power Factor Correction

### Features

- Intelligent and high-speed capacitor switching control
- Self-optimizing control capability by ARM micro-processor
- Wide range of auxiliary power supply with AC or DC input
- Large measuring voltage range
- Extension of steps Capacity by usage of two units (32 steps, master slave function)
- Suitable for LV and HV supply systems
- Four-quadrant operation (e.g. stand by generator / solar co- gen)
- High precision of measurement
- Phase sequence of measurement voltage
- Dual PF control setting possible (DG and EB)
- Easy edit mode (minimum parameter settings)
- Expert edit mode facility to access special functionalities
- Minimum current sensing 5mA
- Storage of maximum values, maximum demand, Energy values
- Storage of switching operations and time + Capacitor utilization
- Monitoring of capacitor kVAr
- One auxiliary input and three auxiliary outputs
- Measurement methods like 3 wattmeter / 2 wattmeter / balanced quadrature / balanced in-phase External temperature monitoring
- Capacitor Current monitoring protection for Neutral / Earth current monitoring and harmonics
- Measurement Odd & Even harmonics up to 31st for Supply Voltage (LL, LN), Current, Capacitor current
- External temperature monitoring facility via PT100 sensor (RTD)
- IOT enable with GPRS real time data (thro' external modem) / MODBUS connectivity
- RS485 port / RS232 port connectivity
- Internal Data logging, history of fault detection, load pattern, time storage parameters
- Mono-phase and balanced capacitor through controlling single phase & three phase TSC modules
- CE marking, RoHS compliance, Environmental compliance



## DuraCube™ Heavy Duty Capacitors



### Technical Data

- Power: 10 - 50 kvar
- Rated Voltage: 440, 480, 525 V
- Frequency: 50 Hz
- Transient peak current (Max permissible): 400 • IR
- Max permissible temp. category: -10/D
- Impregnation: Non-PCB, biodegradable oil
- Life expectancy: 300,000 Hrs (based on type and rating)
- Case/Shape: CRCA Box type
- Bushings: Polymeric Bushing
- Mounting : Vertical
- No. of switching per annum: Max. 15000 switching
- Reference standard: IS 13585 (Part 1) : 2012 / IEC 60931-1 : 1996

### Features

- Heavy Duty Robust Capacitor
- Homogeneous double layer technology
- Long Life Expectancy of up to 300 000 hours
- High pulse current withstand capability
- Polymeric Bushing
- Stainless steel earthing brackets



Learn more about our solutions for  
Power Factor Correction

[www.tdk-electronics.tdk.com](http://www.tdk-electronics.tdk.com)

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Bengaluru Tel: +91-80-4039 0600  
Mumbai Tel: +91-22-2575 0800



**“ Cospower caters to customers in steel, solar, cement, construction, water projects “**

**Felix Kadam  
Managing Director  
COSPOWER ENGINEERING LTD.**

### **What type of products being offered by your company, and their application areas?**

We have been into mfg. of ht & lt capacitor, lt apfc panel, lt reactors, Ahf, hybrid panels, lt & ht svg, mcc and pcc panels. Our products find varied application in sector like steel, cement, pharma, solar, etc.

### **Which are the major sectors where COS Power Engineering finds most of its customers in India?**

Cospower caters to customers in steel, solar, cement, construction, water projects. In addition to this we have made a remarkable entry in wind energy, irrigation sector, etc.

### **Could you please give an idea of the range of Power Factor Improvement and Harmonic Mitigation Products you offer to your clients?**

we supply power factor systems from 440v to 132kv and harmonics mitigation we supply products from 440v to 33kv.

### **You have a large products range, which product is more in use and why?**

Ht and lt capacitors are selling like hot cakes Due to sensitization of power factor by utility dept. advent of electronic components in machineries, motors etc. have introduced a lot of higher order harmonics in the system in addition to reactive power. As a need of the hour we have to provide solution by introducing a perfect combination of capacitors and harmonic filters.



# COSPOWER ENGINEERING LIMITED



scan to view our catalogue

## Assorted Range of HT & LT CAPACITOR



### ⚡ Mfg. Range of panels

HT & LT APFC Panel  
MCC Panel  
PCC Panel  
C & R Panel

### ⚡ Mfg. Range of electrical equipment

HT & LT Capacitors  
LT Reactors  
Passive Harmonic Filters

### ⚡ Service

Power quality study & analysis  
Electrical system studies  
Reactive Power Compensation

### ⚡ Power Quality Product

SVG LV & MV  
Active Harmonic Filters

Complete turnkey solution for Greenfield and Brownfield project

### Catering to :

CEMENT | SOLAR | AUTOMOBILE | PHARMA | UTILITY | STEEL



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9987569907

LOCATE US AT :

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# kVAH billing optimization for highly dynamic loads in Steel industries like EAF, Rolling Mills etc.



**InPhase** excels in addressing power system challenges in steel & other heavy industries. Steel industries incorporate dynamic loads like furnaces and rolling mills, conventional compensation falls short in meeting performance requirements. Our solution tackles high harmonics caused by non-linear loads and low power factor due to dynamic loads. Here is a case study of customised solution implemented by **InPhase** for one of the leading steel manufacturers in India.

## Major Loads:

- Cold Rolling Mill (Main Stand) – 3 nos.
- Cold Rolling Mill (ETR/DTR) – 3 nos.
- Cold Rolling Mill (Aux) – 3 nos.
- Continuous Galvanizing line (CGL) – 2 nos.

## Existing Conventional Compensators

- 3200 KVAR, 11kV HT Fixed Filter Bank
- 3800 KVAR, 11kV HT Fixed Filter Bank
- 5250 KVAR, 11kV HT Fixed Filter Bank
- 1900 KVAR, 11kV HT Fixed Filter Bank

## Power Quality Issues:

- The plant was operating at average monthly PF of 0.93.
- Even with the manual operation of the HT capacitor banks it was not feasible to maintain PF more than 0.93 due to the highly dynamic nature of the loads in steel industry.
- High voltage notches present in the system due to rolling mill.

## Commercial Implications:

Since the inception of kVAH billing methodology in Maharashtra from April 2020 the plant has been running at low PF of 0.93. Due to which they were paying higher electricity bill of 30 - 40 lakh rupees every month.

## Implemented Solution:

Active Dynamic Reactive Power compensator

**Incomer-1:** +/-4700kVAR ASTRA

**Incomer-2:** +/- 2700kVAR ASTRA

The ASTRA panels are designed to improve PF at the metering point taking direct CT feedback from 132kV Incomer.

## InPhase ASTRA Panels site installation photos:



## Performance Achieved:

| Billing Month | Compensation          | kWH Units | kVAH Units | Power Factor |
|---------------|-----------------------|-----------|------------|--------------|
| Jan-23        | Before Implementation | 69,83,628 | 75,67,916  | 0.923        |
| Feb-23        | After Implementation  | 64,81,193 | 64,99,457  | 0.998        |
| Mar-23        | After Implementation  | 67,89,000 | 68,02,605  | 0.998        |

Note: When an Active Compensator is added to the existing HT/LT Passive PF correction system, it can provide additional fine-tuning capabilities. The Active Compensator can continuously monitor the power factor and dynamically inject or absorb reactive power to maintain a desired power factor.

## Special Features of ASTRA:

- Dynamic lagging and Leading reactive power compensation for full rated capacity.
- Harmonic mitigation.
- Efficiency – 98%.
- IGBT based 3-Level Topology.
- DC film type Capacitors for Long life.
- L-C-L input filter design for ripple free operation.
- Can operate based on direct HT CT Feedback.
- Easy upgradation in future by adding additional modules in parallel.

## Technical & Commercial Benefits Achieved:

- Manual operation of HT Capacitor bank is stopped. The Active system will compensate for all dynamic requirement without any manual intervention.
- Customer is achieving reduction in electricity bill of 40 lakhs every month since installation of the ASTRA panels.



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SPL IN: ALL TYPE OF CAPACITOR RAW MATERIAL

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8. Vaccum Metallizer Machine, Slitting Machine & Rewinder
9. Masking Tape
10. Plain Polyester (Pet) Film
11. Copper Based Tin Plated Steel Wire
12. Tin Plated Copper Wire
13. Metal Top
14. Inert Gas Capacitors (pfc Capacitors), Smart Capacitors in Mppfilm
15. Vacuum Interrupter and Vacuum Contactor
16. Vacuum Circuit Breaker
17. High Voltage Fuse
18. Vacuum Load Breaking Switch



Narrow width Aluminium Foil



Paper Masking Tape



Inert Gas Capacitor



MPP Smart Capacitor



Metal Top



Paper Masking Tape



PET Film



Tin Plated Copper Wire



Copper Based Tin Plated Steel Wire



Slitting Machine & Rewinder



Vacuum Metallizer Machine



Vacuum Interrupter



High Voltage Fuse



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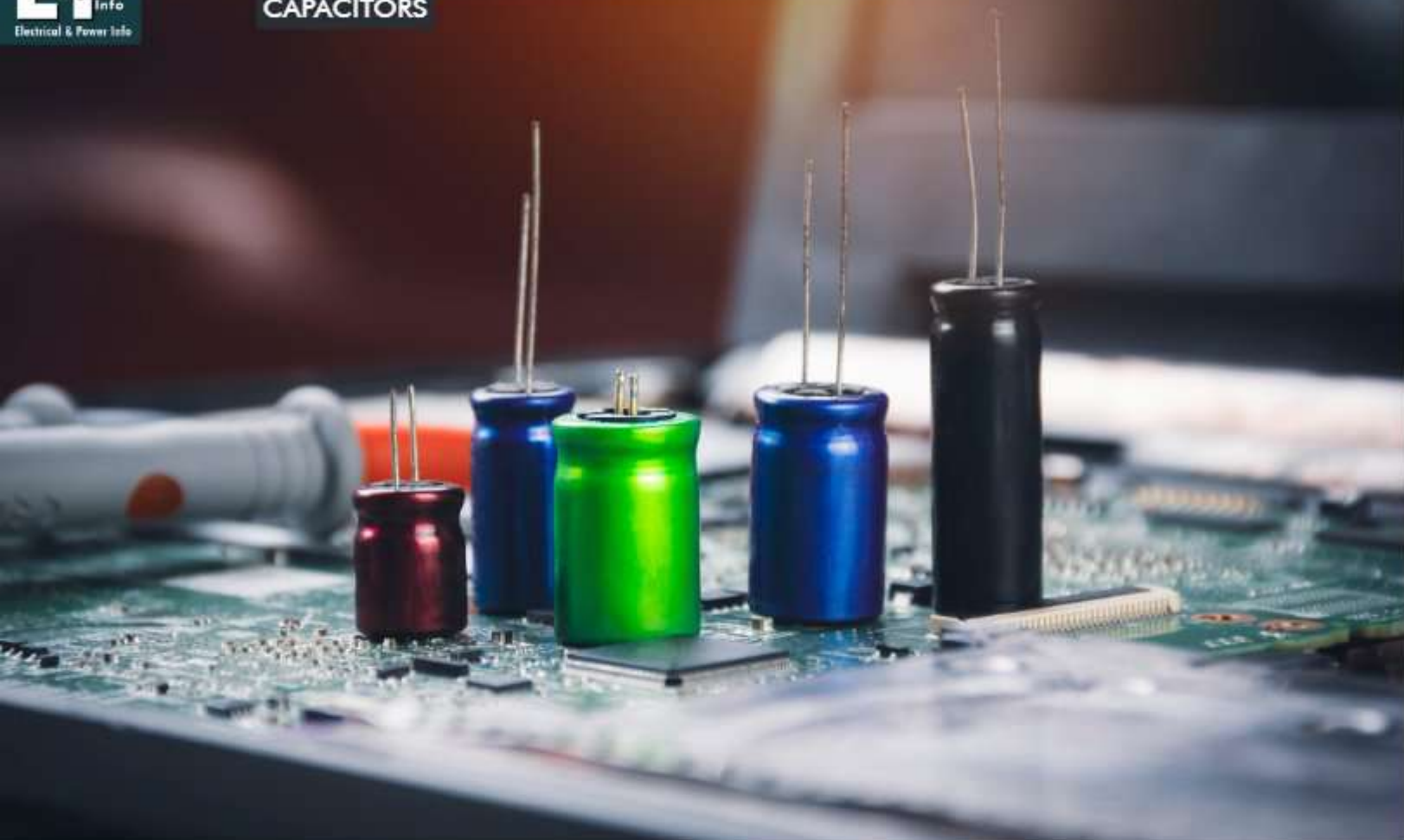
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Among these, polypropylene stands out as the most widely used due to its low and stable dissipation property. However, in applications demanding high temperatures and surface mounting, polyethylene terephthalate takes precedence over polypropylene due to the latter's lower melting point. Thin film capacitors find extensive use in high-power applications, such as those involving high-intensity vibrations in the automotive sector and other high-temperature environments. The accelerated electrification of vehicles, particularly the use of DC to AC inverters, is propelling the adoption of plastic film capacitors in the automotive industry. This trend is expected to drive market growth significantly during the forecast period. In terms of market share, the high

voltage segment takes precedence in the global electric capacitor market. High voltage capacitors play a pivotal role in offering simple and reliable reactive power, enhancing system efficiency, performance, and overall quality. These capacitors are commonly used under oil for peaking in large pulse power systems or pulse shaping. While they provide advantages in boosting grid infrastructure for improved electricity accessibility, concerns related to high voltage hazards pose challenges for the high voltage capacitor market.

Within the electric capacitor market, the power generation segment commands dominance. Capacitors are integral in the power generation process, used to store generated power and facilitate power conditioning. Reservoir capacitors,



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for instance, are employed in power conditioning to smooth the output of a half or full wave rectifier. The diverse range of capacitors used in power generation, such as DC dry-type capacitors, motor surge protection, three-phase capacitors, and CONDIS electrical capacitors, caters to different needs in this industry. The escalating demand for power generation equipment, driven by population growth, increasing consumer numbers, and rapid urbanization, has contributed to a surge in demand for electrical capacitors. Asia-Pacific emerges as the dominant force in the electric capacitor market during the forecast period. The region's capacitor market has experienced substantial

development, fueled by the heightened demand for consumer electronics and the increased use of polymer-based capacitors in industrial applications and electronic equipment. Additionally, the adoption of automation in various industries and the rise of the Internet of Things (IoT) contribute to the growing demand for electric capacitors in the Asia-Pacific region. Superconductors, envisioned as the future power source for IoT, are gradually replacing traditional batteries due to their straightforward charging and discharging characteristics and lightweight nature. Overall, these initiatives and trends are pivotal factors driving market growth in the region throughout the forecast period.

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- ▶ E) Thyristor Switch Module
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- ▶ G) 3Phase / 1Phase HT Capacitor , HT Capacitor Panels



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## Bharat Petroleum Achieves Highest-Ever Nine Months Profit of Rs. 22,449 Crore; Q3 Net Profit at Rs. 3,397 Crore

Bharat Petroleum Corporation Limited (BPCL), a leading player in the oil and gas sector, has reported its highest-ever net profit of Rs. 22,449.32 Crores for the nine months ending December 2023. This significant achievement marks a turnaround from the corresponding nine months of FY 22-23, when the company reported a loss of Rs. 4,607.64 Crores.

The net profit for the third quarter of FY 23-24 stood at Rs. 3,397.27 Crores, reflecting a substantial growth compared to the profit of Rs. 1,959.58 Crores in the corresponding quarter of FY 22-23.

Major highlights of the financial results are given below Company's Gross Refining Margins (GRM) for the period Apr - Dec 2023 was \$14.72/bbl Vs \$20.08/bbl in the corresponding comparative period before factoring the impact of Special Additional Excise Duty and Road & Infrastructure Cess.

EBITDA for the nine months of FY 23-24 reached Rs.

36,887.35 Crores, showcasing a robust increase from Rs. 1,253.93 Crores in the nine months of FY 22-23. The EBITDA margin was at 9.84% in nine months FY 23-24, compared to 0.31% in the corresponding period of FY 22-23.

EBITDA for Q3 FY 23-24 is Rs. 6,906.37 Crores Vs Rs. 4,685.82 Crores in Q3 FY 22-23; EBITDA margin was at 5.31% in Q3 FY 23-24 Vs 3.51% in Q3 FY 22-23.

**Physical Performance**

The throughput for the current quarter was 9.86 MMT, showing an increase from 9.39 MMT in Q3 FY 22-23. Market sales grew by 0.86%, reaching 12.92 MMT in Q3 FY 23-24 from 12.81 MMT in Q3 of FY 22-23.

During Apr to Dec'23, the throughput was 29.57 MMT Vs 27.90 MMT in the comparative period. The market sales for the period Apr to Dec'23 has increased to 37.86 MMT from 36.01 MMT in the comparative period (Growth of 5.14%).

## Hon'ble Prime Minister Reviews India's First Indigenous Alkaline Electrolyser by BPCL at India Energy Week 2024 in Goa

Bharat Petroleum Corporation Limited (BPCL), a leading player in the energy sector, marked a significant milestone today at the India Energy Week 2024 in Goa.

Hon'ble Prime Minister Shri Narendra Modi reviewed the operation of the first indigenous alkaline electrolyser, a groundbreaking achievement for India.

Developed collaboratively by BPCL and the Bhabha Atomic Research Centre (BARC), the prototype was showcased to the Prime Minister by Shri G. Krishnakumar, C&MD of BPCL.

Alkaline water electrolysis, the process through which hydrogen is produced from alkaline water via electrolysis, marks a pivotal advancement in industrial-scale application. The technology demonstrates high cell efficiency and robustness in an alkaline environment.

In line with India's target to produce 5 million tons



of green hydrogen by 2030, BPCL strategically plans a 5 MW Green Hydrogen Plant at Bina Refinery. Additionally, a 500 KW capacity Integrated Hydrogen Refueling Station will be established at CIAL.

This electrolyser underscores BPCL's commitment to India's

pursuit of Energy Independence through initiatives such as "Aatma Nirbhar Bharat" and "Vocal for Local". By manufacturing this electrolyser locally, BPCL actively contributes to the nation's self-sufficiency in the energy sector.

BPCL is showcasing its ongoing efforts in the IEW 2024 Hydrogen Pavilion, highlighting progress in green hydrogen production. This initiative aims to spotlight India's indigenous capabilities in the hydrogen domain, garnering significant interest from technocrats and industry stakeholders.

## BPCL's Joint Venture, PLL, Renews 20-Year Partnership with Qatar Energy, Secures 7.5 MMTPA LNG for India's Energy Security

A joint venture of Bharat Petroleum Corporation Limited ("BPCL"), Petronet LNG Limited ("PLL"), a LNG terminal-owning company, has concluded and executed a Long-term LNG Sale & Purchase Agreement ("LNG SPA") with Qatar Energy for the purchase of approximately 7.5 MMTPA Liquefied Natural Gas ("LNG") on a long-term basis today. PLL is a Joint Venture Company with equity participation from four Oil & Gas Maharashtra Public Sector undertakings — Gas Authority of India Limited ("GAIL"), Oil and Natural Gas Corporation ("ONGC"), Indian Oil Corporation Limited ("IOCL"), and BPCL, each holding an equity share of 12.50%, collectively totaling 50%.

LNG SPA is a renewal of the existing agreement signed on 31st July 1999, which was set to expire in April 2028. The new agreement entails deliveries commencing from May 2028 for a duration of 20 years with supplies on a delivered basis.

In line with the earlier agreement from 1999, the volumes under the new LNG SPA will be off taken by GAIL (60%), IOCL(30%), and BPCL(10%) primarily from PLL's Dahej Terminal on a substantially back-to-back basis.

The existing long-term agreement between PLL & Qatar Energy today accounts for around 35% of India's LNG imports as of 6th February, 2024. We hope that the renewal of this agreement is a step in achieving vision of Hon'ble Prime Minister of India to increase share of natural gas in India's energy basket to 15% by year 2030. This agreement aims to provide energy security and ensure stable & reliable supply of clean energy and help India in its stride towards greater economic development. Fortune Global 500 Company, BPCL is the second largest Indian Oil Marketing Company and one of the integrated energy companies in India, engaged in refining of crude oil and marketing of petroleum products.



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## ONGC in Joint Venture Agreement with NTPC Green for Renewable Energy

ONGC and NTPC Green Energy Limited (NGEL) signed a Joint Venture Agreement (JVA) to develop renewable energy projects focusing on offshore wind. This was signed on 7 February 2024 during India Energy Week held at Goa. The JVA was signed in the presence of Hon'ble Minister of Petroleum and Natural Gas and Minister of Housing and Urban Affairs Hardeep Singh Puri.

The JVA marks a pivotal collaboration aimed at spearheading Renewable Energy Projects both within India and on the international stage. Specifically, the agreement encompasses ventures in offshore wind projects while also delving into potential opportunities in Storage, E-mobility, Carbon Credits, Green Credits, Green Hydrogen business, and its derivatives such as Green Ammonia and Green Methanol.



ONGC had earlier inked a Memorandum of Understanding (MoU) with NGEL on 27 September 2023 to advance its renewable energy goals in alignment with the energy transition. The primary focus of the MoU was to assess feasibility and establish renewable energy projects across various sectors.

This strategic partnership between NGEL and ONGC signifies a concerted effort towards advancing sustainable energy initiatives, aligning closely with the nation's ambitious goals for a greener future. By synergizing expertise and resources, both entities are poised to contribute significantly to India's renewable energy landscape, driving innovation and fostering environmental stewardship.

## Tata Motors Partners with UN-Backed LeadIT Initiative to Accelerate Transition Towards Net-Zero Emissions

Tata Motors, a global leader in the automotive industry, announces its partnership with the Leadership Group for Industry Transition (LeadIT), a global alliance launched by the governments of Sweden and India at the UN Climate Action Summit in September 2019. As a member of LeadIT, Tata Motors will be able to harness the power of global best practices, influence policy-making, and together with other members strengthen its climate action plans, thereby accelerating its transition towards net-zero emissions.

Speaking on the development, SJR Kutty, Vice President and Chief Sustainability Officer, Tata Motors, said, "We are excited to join forces with LeadIT, a milestone that underscores our deep-rooted dedication to environmental sustainability. Our pledge to attain net-zero emissions across our Passenger Vehicles (PV) business by 2040, and our Commercial Vehicles (CV) business by 2045, is a testament to our commitment to a greener future. Joining forces with LeadIT propels us closer to these ambitious goals, facilitating our journey

towards sustainable transformation. This collaboration will not only expedite our own transition but also catalyse a climate for change within the automotive industry. We eagerly anticipate working alongside other pioneering companies within LeadIT, creating a dynamic ecosystem of shared insights and collective advancement. Together, we aim to drive the automotive industry forward, championing a sustainable future for all."

Expressing the group's enthusiasm at welcoming Tata Motors into the group, Romina Pourmokhtari, Minister for Climate and the Environment, Sweden and Co-Chair of LeadIT, said, "This membership signals an important commitment to net zero from a leading global manufacturer in the supply chain. Demand signals are crucial for the transformation of our industry. Fostering dialogues and strengthening partnerships in areas where transition challenges need to be addressed is core to achieving reduced climate emissions. Industry is driving the green industrial transformation here in Sweden and we hope to inspire change globally.

## Adani Green Begins Generation From The World's Largest Renewable Energy Park

Adani Green Energy Limited (AGEL), India's largest renewable energy (RE) company and the second largest solar PV developer in the world, has operationalized 551 MW solar capacity in Khavda, Gujarat, by supplying power to the national grid.



AGEL achieved this milestone within 12 months of commencing work on the Khavda RE park, starting with the development of basic infrastructure, including roads and connectivity, and creating a self-sustaining social ecosystem. AGEL also transformed the challenging and barren terrain of the Rann of Kutch into a habitable environment for its 8,000-strong workforce.

AGEL plans to develop 30 GW of renewable energy capacity at this RE park. The planned capacity is expected

to be operationalized in the next five years. When completed, the Khavda RE park will be the largest renewable energy installation in the world.

Energy from the Khavda RE park can power 16.1 million homes each year. With proven expertise in developing

largescale renewable projects, a robust supply chain network and technological prowess, AGEL is best positioned to build this record-setting giga-scale plant with no parallel in the world's clean energy sector.

The region is endowed with one of the best wind and solar resources in the country, which makes it ideal for giga-scale RE development. AGEL conducted extensive studies and deployed multiple innovative solutions to accelerate the development of the plant.

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## Making it by „Make in India“!

Dr. Klaus Jostschulte, CTO of DILO, on starting production at the Mumbai site and the challenges and chances DILO will be facing in the medium and long term.

### What drives the interest in the Indian market for a company like DILO?

As a global specialist in SF<sub>6</sub> gas handling, the Indian market has always been of fundamental interest for us. In fact, this interest has grown even stronger in recent years. As the world's most populated country, the subcontinent has recently developed tremendously, yet at the same time using their great potential in many areas, including, for example, the expansion of the electrical infrastructure. Considering the enormous opportunities that this market holds and will continue to hold, we would like to contribute our part to drive the possibilities of our joint growth.

### How was your entry into the Indian market?

We have now been active in Mumbai for almost forty years, having close partnerships with our distributors. In this process we have been able to continuously expand our range of products and services related to SF<sub>6</sub> gas on the local market. Since 2017, SuperPhoenix India LLP has been our partner of first choice and - despite some significant import duties and keen competition on the domestic market - with growing success.

### ... and then the „Make in India“ initiative impacted your growth plans ...

... Yes, and it quickly became clear to us that we would have to react sooner or later if we wanted to continue growing successfully in India. So, in the beginning of 2022, we decided not only to distribute our products through our sales agency in Mumbai, but also to manufacture them locally. We managed to do this - including engineering, all the preparations and the setting up of a production plant - at an amazing speed.

### So, was setting up a production plant the only option for you to be able to survive on the Indian market at all?

We didn't look at it from that point of view at all. Despite the fact that the Indian market, with a considerable share of sales and a high potential for growth, is one of the most significant foreign markets for DILO, especially in the Asian region, it was not a question of surviving for us. We regarded „Make in India“ as a challenge to further grow as a globally operating company. The Indian market is not simply a sales market for us, but a cru-

cial market of the future - and this in many different ways. India has always invested a lot of resources in the training of its workforces, and their technical know-how is correspondingly high. India is also of growing interest to us as a procurement market. In this context, our entry into local production was a key strategic decision that we made with regard to the long-term growth of our company.

### Which standards, in particular, will you establish to invest in India?

Our DILO standards, established for us in Germany, apply worldwide - to all our sites and to all our employees who are working here. We strongly believe that people work best under circumstances and in an environment in which they feel safe and comfortable. So, we design our workplaces and take great care to ensure that they are safe. And very importantly, we produce and export DILO quality - worldwide. We are not willing to make any concessions in this respect. We are sure that through intensive Indian-German cooperation we will raise our understanding of quality to the same level.

## What is the current state of your production in Mumbai, and what is the primary concept behind it?

We produce a budget service cart in Mumbai, the B052INDIAR40. It is a member of our "Compact Series" and is targeted specifically at the needs of the Indian market. One of the distinguishing features of the B052INDIAR40 is that it focuses less on automation and more on the use of more conventional technology, and has been selling quite well on the Indian market to date. The current concept behind it is that the quality-determining components

are supplied from Germany and then assembled together with the parts from the domestic market. However, the way things are, this is only intended to be the beginning of more comprehensive investments. We are already thinking about renting a larger area for our production together with our local partner. We are clearly committed to continuing our investments in the Indian market in the years to come.

**In its domestic market, DILO has recently been focusing more on sustainability issues, especially gas recycling and the expansion of the Alternative Insulating Gases product segment. Are these issues that might also become relevant for the Indian market?**

Definitely. As I mentioned before, from our point of view, the Indian market is presently in the midst of an incredible growth and this

expansion is taking place on several stages of development, as is usual the case with emerging markets. Fundamentally, we are thus in a phase where sustainability and Alternative Insulating Gases are not particularly relevant. But for us, it is only a matter of time before this changes.

Talking about sustainability: We are certain that the subject of gas recycling will also take on a growing role in India in the next few years. In this context, we would like to make our contribution to reducing the need to produce the greenhouse gas SF<sub>6</sub> by reconditioning as large a volume of used gas as possible as part of an organised process. In this way, we can also use the opportunity to improve our carbon footprint as an Indian company. Gas reconditioning is already feasible today in the Indian market with the means we use and the products we offer, with the help of skilled experts.

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“ For us, avoiding emissions as far as possible is a matter of personal importance and dedication. ”

### About Klaus Jostschulte

Dr. Klaus Jostschulte joined DILO in 2019, first as the Head of Manufacturing and Development of Measuring Devices and since August 2021 as Chief Technology Officer (CTO). After graduating with a doctorate in electrical engineering, he taught and conducted research at the University of Dortmund. In 2006, he joined Daimler AG, where he was responsible for the development and roll-out of test equipment for new products in the group as the Head of Quality Engineering and later on as Quality Validation Manager.



### ... in accordance with your claim: „One Vision. Zero Emissions“?

Indeed. For us, avoiding emissions as far as possible is a matter of personal importance and dedication. Hence, we would also like to make our contribution to this as an Indian company. This relates to the economical use of the energy we consume as well as to the most economical use of natural resources. This also concerns the use

of Alternative Insulating Gases, which we would like to promote in India as soon as possible as a more climate-friendly substitute for SF<sub>6</sub>.

### Finally: How would you explain the secret of DILO's success in a few words?

In contrast to the high complexity of our products and services, it consists of only three pillars:

- quality, as it is also appreciated by our customers in India
- the enormous range of our products and services
- the commitment to offer our customers the best solutions for their particular needs. Our paths lead first of all to our customers. We strive to understand what exactly they need and then proceed to meet these requirements in the best possible way.

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# India's power sector is one of the most diversified in the world.

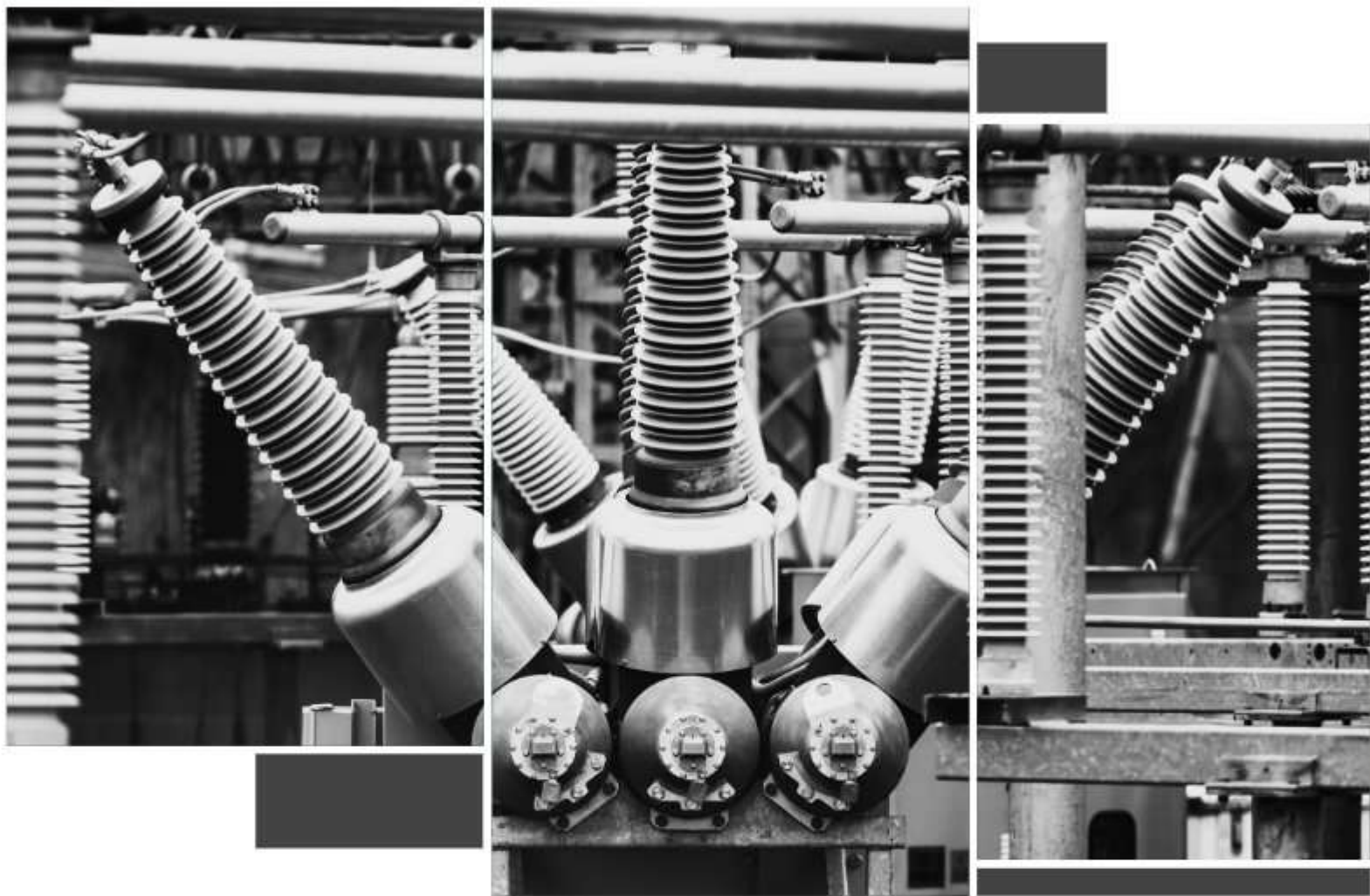
The power sector in India has faced challenges such as financial stress in distribution companies, issues related to land acquisition for projects, and occasional policy uncertainties. Addressing these challenges is crucial for the sustainable growth of the sector.

**Renewable Energy Growth:** India has been making significant strides in the renewable energy sector. The government has set ambitious targets for increasing the share of renewable energy in the total energy mix, including solar and wind power.

**Policy Initiatives:** The government has been implementing various policy initiatives to boost the power sector, such as the Ujwal DISCOM Assurance Yojana (UDAY) for financial restructuring of power distribution companies and the Saubhagya scheme to ensure electrification of all households.

**Electricity Generation Capacity:** India has been continuously working on increasing its electricity generation capacity, both conventional and renewable. Investments in new power plants, both thermal and renewable, have been ongoing.

**Energy Efficiency Programs:** The government has been focusing on improving energy efficiency and has launched programs like the Perform, Achieve, and Trade (PAT) scheme for industrial energy efficiency



Power is among the most critical components of infrastructure, crucial for the economic growth and welfare of nations. The existence and development of adequate power infrastructure is essential for sustained growth of the Indian economy. The fundamental principle of India's power industry has been to provide universal access to affordable power in a sustainable way. The Ministry of Power has made significant efforts over the past few years to turn the country from one with a power shortage to one with a surplus by establishing a single national grid, fortifying the distribution network, and achieving universal household electrification.

India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power, to viable non-conventional sources such as wind, solar, agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required.

India was ranked fourth in wind power capacity and solar power capacity and fourth in renewable power installed capacity, as of 2021. India is the only country among the G20 nations that is on track to achieve the targets under the Paris Agreement.

India is the third-largest producer and consumer of electricity worldwide, with an installed power capacity of 426.13 GW as of November 30, 2023.

As of November 30, 2023, India's installed renewable energy capacity (including hydro) stood at 179.57 GW, representing 42.1% of the overall installed power capacity. As of November 30, 2023, Solar energy contributed 72.31 GW, followed by 44.56 GW from wind power, 10.26 GW from biomass, 4.98 GW from small hydropower, 0.57 from waste to energy, and 46.88 GW from hydropower.



**“India is the  
third-largest  
producer and  
consumer of  
electricity  
worldwide”**

The non-hydro renewable energy capacity addition stood at 15.27 GW in FY23, up from 14.07 GW in FY22.

India's power generation witnessed its highest growth rate in over 30 years in FY23. Power generation in India increased by 8.87% to 1,624.15 billion kilowatt-hours (kWh) in FY23. According to data from the Ministry of Power, India's power consumption stood at 130.57 BU in April, 2023.

The peak power demand in the country stood at 243.27 GW in November 2023.

The coal plants registered a PLF of 73.7% for the first nine-months period in FY23 compared to 68.5% in FY22 for the same period.

Thermal power plant load is estimated to improve by 63% in FY24, fuelled by strong demand growth along with subdued capacity addition in the sector.



In the current decade (2020-29), the Indian electricity sector is likely to witness a major transformation with respect to demand growth, energy mix and market operations. India wants to ensure that everyone has reliable access to sufficient electricity at all times, while also accelerating the clean energy transition by lowering its reliance on dirty fossil fuels and moving toward more environmentally friendly, renewable sources of energy. Future investments will benefit from strong demand fundamentals, policy support and increasing government focus on infrastructure.

The Government of India is preparing a 'rent a roof' policy for supporting its target of generating 40 GW of power through solar rooftop projects by 2022. It also plans to set up 21 new nuclear power reactors with a total installed capacity of 15,700 MW by 2031.

The Central Electricity Authority (CEA) estimates India's power requirement to grow to reach 817 GW by 2030. Also, by 2029-30, CEA estimates that the share of renewable energy generation would increase from 18% to 44%, while that of thermal energy is expected to reduce from 78% to 52%.

The government plans to establish renewable energy capacity of 500 GW by 2030.







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## Hon'ble Prime Minister Shri Narendra Modi to launch power projects worth Rs 28,978 Crore



Hon'ble Prime Minister Shri Narendra Modi will dedicate to the Nation NTPC Darlipali Super Thermal Power Station (2x800 MW), NSPCL Rourkela PP-II Expansion Project (1x250 MW) and lay the foundation stone of NTPC Talcher Thermal Power Project, Stage-III (2x660 MW) with a total investment of Rs 28,978 Crore during a programme at Sambalpur on 3rd February, 2024.

Located in Sundargarh district of Odisha, Darlipali STPP is a pit-head Power Station with Supercritical (highly efficient) Technology, and is supplying low-cost power to its beneficiary states, such as Odisha, Bihar, West Bengal, Jharkhand, Gujarat and Sikkim.

The 250 MW project of NTPC-SAIL Power Company Ltd is established in Rourkela Steel Plant (RSP) to provide reliable power for the steel plant which is vital for economic growth.

Further, NTPC is developing Talcher Thermal Power Project, Stage-III within old TTPS plant premises in Angul district of Odisha, which was taken over by NTPC from Odisha State Electricity Board in the year 1995. The old TTPS plant was decommissioned after completing more than 50 years of service to the Nation.

The upcoming plant will have highly efficient Ultra Super Critical Technology based units and approximately three times capacity of the old TTPS plant. While 50% capacity from this project is dedicated to the state of Odisha, other beneficiary states such as Tamil Nadu, Gujarat and Assam will also get low-cost power from this pit-head station.

This project is being constructed with all modern environmental features like efficient electrostatic precipitator, Flue gas desulphurization, bio-mass cofiring, covered storage space for coal and will thus help in lesser Specific Coal Consumption and CO<sub>2</sub> emissions.

Besides creating direct and indirect employment opportunities in the region, these projects have contributed to improvement of physical infrastructure such as approach road, drainage, transportation and communication facilities. Various community development initiatives are also being undertaken by NTPC in the surrounding villages in the area of education, drinking water, sanitation, health, women empowerment, rural sports, etc. NTPC has also set up a Medical College cum Hospital in Sundargarh, Odisha.

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## Su-Kam hosts an insightful Business Dealers Meet in Pathankot



Su-Kam Power Systems Limited, a leading power solution provider in India, hosted an insightful Dealers Meet in collaboration with their authorized distributor, MK Traders at Hotel Unite in Pathankot, J&K.

The gathering provided an engaging platform for over 90 dealers and distributors from the region, showcasing Su-Kam's commitment to fostering strong partnerships and expanding its footprint in the area. The event also set the stage for insightful discussions and presentations on Su-Kam's latest product range and future plans.

Speaking at the event, Mr. Dheeraj Monga (RSM Greater Punjab), Su-Kam Power Systems Limited, said, "The Business Dealers Meet has been instrumental in connecting with our valued partners, Shri Balaji Batteries, and the wider dealer network. It provided a valuable opportunity to unveil our new product offerings and discuss our strategic vision for the future. Su-Kam is dedicated to furthering its presence in the region, addressing the increasing demand for our trusted power solutions."

The event witnessed the auspicious presence of key representatives, Mr. Kapil Kumar and Mr. Monish Kumar, from MK Traders. While sharing insights into their experience and future outlook as business partners, Mr. Kapil Kumar said, "Being associated with Su-Kam Power Systems as the authorized distributor in Pathankot is truly exciting. We are optimistic about the opportunities that the Business Dealers Meet has presented. The demand for Su-Kam's exceptional products is consistently rising, and our goal is to deliver unparalleled power solutions to our customers in Pathankot."

The demand for Su-Kam products has been on a steady rise not only in Pathankot but throughout the region. With 35 years of expertise in the field of renewable energy solutions, Su-Kam Power Systems continues to be a front-runner in the industry. The company boasts a comprehensive network, including government-approved research and development centres, dealers, distributors, and service centres.

The objective of the Business Dealers Meet in Pathankot was to reinforce the company's collaboration with dealers, showcase Su-Kam's diverse product portfolio, and facilitate discussions on upcoming plans and initiatives. Su-Kam Power Systems remains committed to expanding its presence in Pathankot and contributing to the development of the green energy sector. The company aims to focus on renewable energy sources, e-mobility, and other sustainable energy product areas to meet the evolving needs of the market.


## The new Schneider Electric Easy UPS 3-Phase 3M Advanced leads in Reliability, Scalability, and Simplicity

Schneider Electric, the global leader in the digital transformation of energy management and automation, recently introduced the Easy UPS 3-Phase 3M Advanced, which is a robust uninterruptible power supply designed to protect critical loads. The UPS offers modular scalable architecture, making it an easy-to-install, easy-to-service, easy-to-configure, and easy-to-scale solution for small and medium data centers, as well as critical commercial and industrial applications. The product has a power range of 100-250 kW (400V) 3-Phase and is ideal for businesses that require reliable and efficient power supply. Made in India, this UPS provides reliable power with advanced features, robust electrical specs, and a compact design. Start-up service is included for optimal performance, quality, and safety. This EcoStruxure-connected UPS is designed to be installed quickly and easily in your data center or electrical room. It features a wide operating temperature range and strong overload protection, all within a compact footprint. With its exceptional

combination of low Total Cost of Ownership, competitive specifications, and ease of use, the Easy UPS 3M Advanced is the obvious choice for ensuring business continuity.

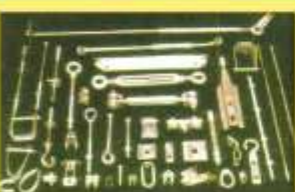




Easy UPS 3M Advanced is a highly reliable power supply system that delivers long-lasting performance and power stability. This EcoStruxure™ connected UPS has a modular architecture, advanced product features, and robust electrical specifications. It offers a wide operating temperature range and strong overload protection in a compact design. The scalability feature allows you to expand your system gradually, while internal redundancy options enhance availability. Additionally, the startup service optimizes your system's performance, quality, and safety.

Sharing his thoughts on the product, Mr. Sachin Bhalla, Vice President, Secure Power Division, India and SAARC, Schneider Electric, said, "It gives me immense pleasure in introducing the 'Made in India' Easy UPS 3-Phase 3M Advanced, a product specially designed for the Indian market.



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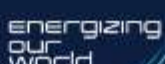
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In 2018 Lawson fuses was acquired by Lucy group, who a leader in secondary power distribution solutions with over 100 years' industry experience and specialising in high-performance medium voltage switchgear. Both Lucy and Lawson are long standing and successful British businesses operating in the electrical distribution market.

**Prashant Singh**

Head of Business Development, Lawson Lucy India Pvt. Ltd.



Lawson Fuses is one of the most reputed brand names associated with the product range of Low Voltage HRC Fuse links and Fuse Holders, for past many decades. The brand is synonymous with the highest quality standards in the industry and is backed by a strong, glorious legacy of more than 8 decades of operation. We have been, consistently and continuously, delivering on our promise of manufacturing and supplying the highest quality products for ensuring the reliable, robust, and sustainable safety in diverse industrial applications. In 2018 Lawson fuses was acquired by Lucy group, who a leader in secondary power distribution solutions with over 100 years' industry experience and specialising in high-performance medium voltage switchgear. Both Lucy and Lawson are long standing and successful British businesses operating in the electrical distribution market. In India the manufacturing commenced from year 2003 in New Delhi thereafter the operations moved to a brand new and modern, and state of the art manufacturing facility near Vadodara.

Our India operations offers a wide range of fuse-links and fuse-holders for a large variety of applications. These products meet the requirements of International, Indian, British, and other applicable standards and serve a wide spectrum of the industrial applications, providing reliability and safety to the electrical systems across the globe. The product range includes industrial range of fuses (Type N&T, SS, CDS, MD, LGP, A, LFN, MIN) , Utility range (Type J , type ME&MF) , NH type industrial fuse link (DIN, LUCH) , Street lighting type (LST) , Special fuses (LNZ , LD), House hold range (Type L, PL, PO) , Fuse holders (MS, LBI, LCF, LPC, SLY, SL and FH) , semiconductor range (LSC).

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# Switchgear and Control Panel Industry



Electrical switchgear comprises essential components within electrical power systems, encompassing circuit breakers, switches, fuses, relays, and other control apparatus used to safeguard, regulate, and isolate electrical circuits and equipment. It finds extensive application across diverse sectors such as power generation, transmission, distribution, industrial manufacturing, commercial establishments, and residential settings. Electrical switchgear constitutes a collection of electrical apparatus utilized for controlling, safeguarding, isolating, and switching electrical circuits and equipment within power systems, serving a critical role in the distribution and governance of electrical power across various industries and infrastructure.

An electrical control panel, whether housed in a metal enclosure or plastic casing, serves as a vital hub containing essential electrical elements for regulating energy distribution. Its design aims to securely accommodate a multitude of electrical components while ensuring operational safety. These panels, also referred to as electrical control panels, encompass various elements including circuit breakers, fuses, switches, indicators, relays, meters, control logic, transformers, busbars, and enclosures. They play a pivotal role in managing and overseeing the flow of electricity within a system or facility. The functionality of an electric control panel allows individuals to regulate electrical equipment, appliances, and circuits through the utilization of electric energy. These panels grant operators comprehensive access

to the entire electrical system within a given location through a centralized board, enabling monitoring and maintenance of the power system as a whole. In the event of issues or troubleshooting needs, an electrical control panel offers a swift and efficient resolution. Additionally, the incorporation of multiple protection devices enhances the overall safety of the power system. Furthermore, electric control panels offer several advantages. They improve system reliability by providing real-time data on changes occurring within the power system, optimize energy consumption, and enhance efficiency in power distribution and consumption patterns. These factors are expected to drive growth in the electric control panels market during the forecast period.





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Electric control panels are cost-effective, user-friendly, and adaptable, making them suitable for managing complex industrial power supply systems. They simplify tracking and troubleshooting across the system, contributing to the growth of the global electrical control panel market outlook.

Moreover, electric control panels are integral to automating production processes across various industries such as oil and gas, automotive, food and beverages, pharmaceuticals, manufacturing, commercial, agriculture, and residential sectors. The increasing demand for integrated clean energy sources like solar and wind, coupled with the trend towards automation in industries, is expected to propel the electric control panel market

forward.

However, challenges such as compatibility issues with older power systems, high initial costs, and the need for specialized technical expertise in design, installation, and maintenance may hinder market growth. Despite these challenges, the electric control panel market remains segmented by type, voltage, application, and region, offering diverse opportunities for growth and innovation across different sectors and geographic regions.

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A wide range of products with technically sound guidance for product selection, to ensure smooth functioning of the targeted application makes Minilec the first choice for several OEMs and control panel designers. Minilec products are designed for safety of equipment's, optimise energy use, remote monitoring, sustainable energy management & for green house energy measurement. A company which works with quality stringent norms and is fuelled by innovation, Minilec plans to introduce products for smart grid

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**Sharmila Kumbhat**  
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## Smart Pole 2.0

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

In fact, the smart city pole is going to be a service platform for various services for Network redundancy, application areas such as mobile connectivity (WLAN), traffic control, security

camera (CCTV), information transfer, public announcement with loud speakers, smart parking, environmental monitoring and even the electric charger for electric cars etc.,

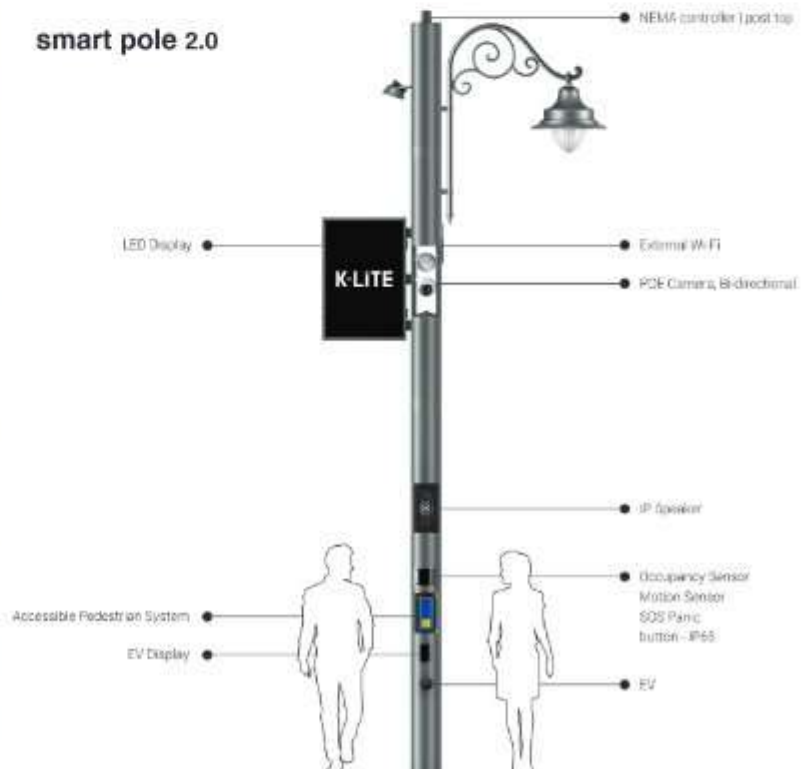
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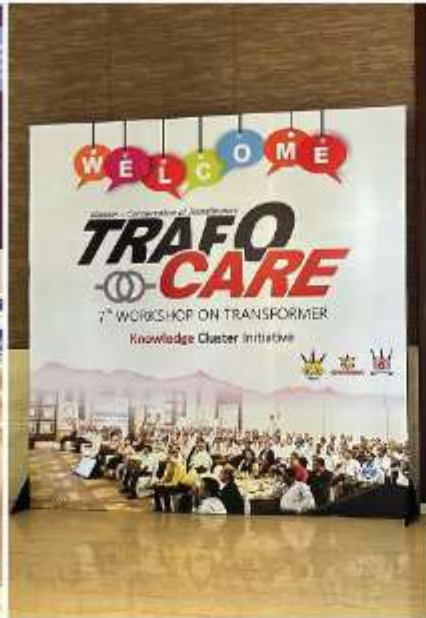
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