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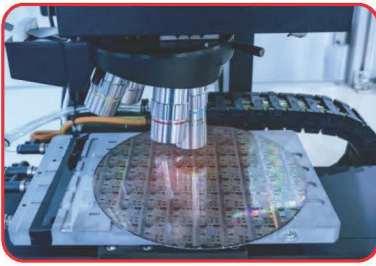
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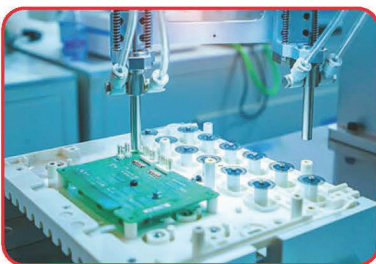
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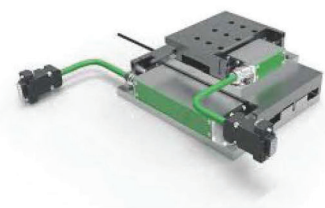
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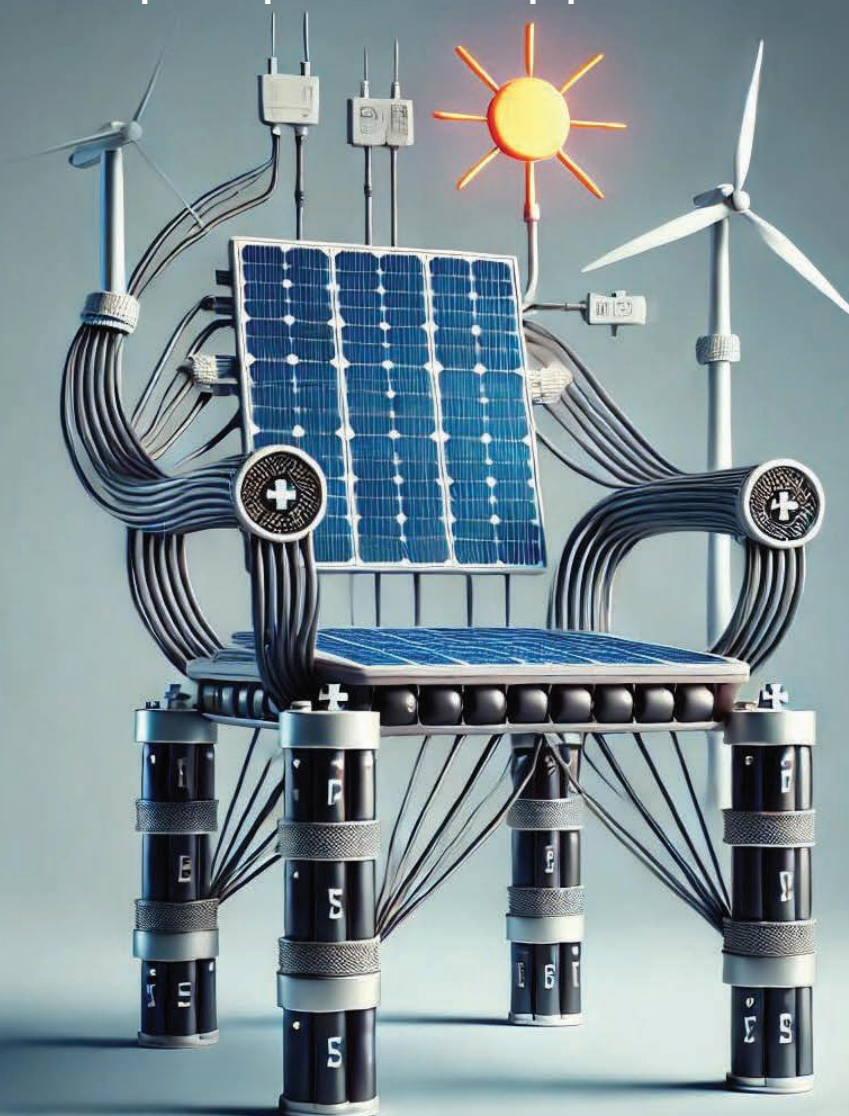
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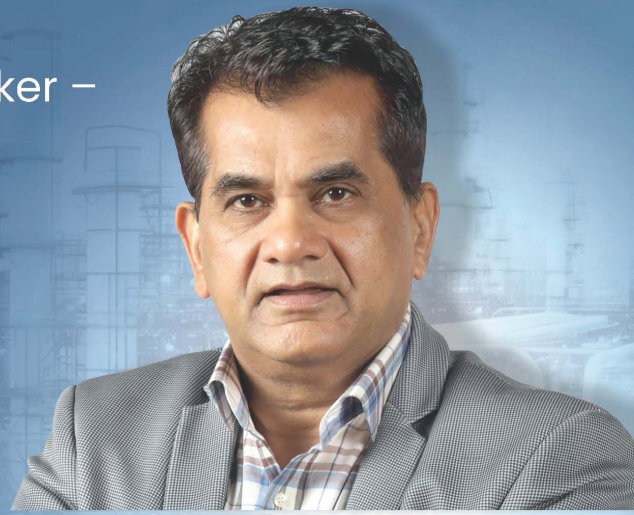
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With \$ 20 billion expected business enquiries, ELECRAMA 2025 will power up the electrical equipment market.



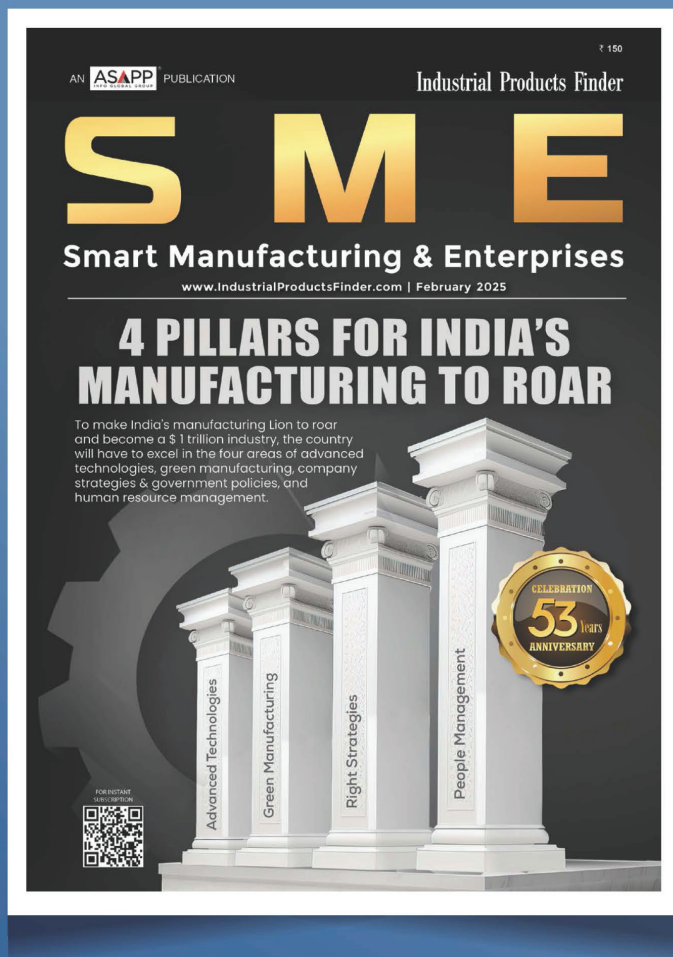
In Conversation with the Change Maker –
Mr. Amitabh Kant,
G20 Sherpa, in the

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Get valuable insights from **Mr. Amitabh Kant**, India's G-20 Sherpa and former CEO of NITI Aayog, who has been at the forefront of transformative initiatives like "Make in India." In this edition, he shares his views on India's remarkable transformation in recent years and offers a forward-looking perspective on the Indian manufacturing sector over the next 5 years.



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Powering Up Growth

The Indian energy sector and electrical equipment industry are on the cusp of unprecedented growth, driven by fast-growing segments such as renewable energy, data centres and electric vehicles (EVs). Currently contributing minimally to power demand, these sectors are projected to drive one-third of India's power demand growth by 2035.



Taking a note these trends, the Union Budget 2025-26, presented by Finance Minister Nirmala Sitharaman on February 1, 2025, underscores India's commitment to energy security, sustainability, and industrial growth. Major announcements include plans to expand nuclear capacity to 100 GW by 2047 and boost domestic production of solar PV cells, wind turbines, and lithium-ion batteries.

A notable increase in budgetary allocations—₹218.47 billion for the Ministry of Power and ₹265.49 billion for the Ministry of New and Renewable Energy—signals enhanced focus on renewable energy and power sector reforms. High-voltage transmission equipment, facing global shortages, also receives attention, positioning India to become a global manufacturing hub in this critical sub-segment. The inclusion of 35 capital goods for EV battery production and 28 for mobile phone batteries in customs exemptions is expected to localise production, reduce import dependence, and strengthen India's role in the global EV and electronics supply chain.

With an estimated investment potential of ₹40 trillion over the next decade, India's power sector is rapidly advancing toward clean energy and infrastructure upgrades, favouring renewables and transmission over thermal power. Union Budget 2025-26 presented a comprehensive blueprint for this transition bolstering the Indian energy sector, enabling a self-reliant future through strategic investments, reforms, and clean technology innovation.

Against this background, experts expect ELECRAMA 2025 to play a pivotal role in propelling the industry growth by showcasing innovations across critical areas such as HVDC systems, energy storage, smart metering, sustainable manufacturing, and EV charging technologies. By addressing industry challenges, overcoming supply chain constraints, and fostering international collaboration, the trade fair can strengthen India's position as a global leader in electrical equipment manufacturing.

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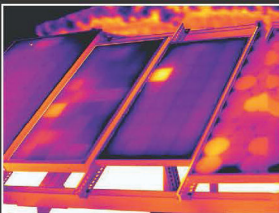
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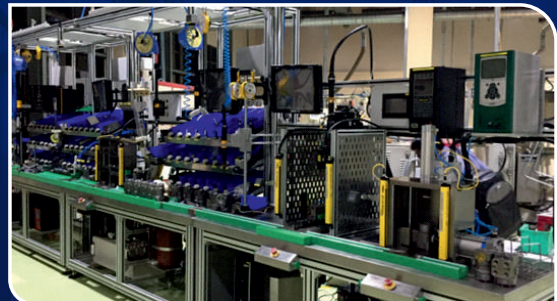
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ELECRAMA 2025 – Energising India's Power Sector

The exhibition will focus on knowledge sharing and innovation, providing a platform for the next generation of leaders and innovators.



As the global electrical industry converges for its flagship showcase, ELECRAMA 2025 is set to redefine innovation and collaboration in the power sector ecosystem. Scheduled from February 22 to 26, 2025, at Greater Noida, this 16th edition promises to be the most expansive and impactful gathering yet, uniting thought leaders, policymakers, and industry trailblazers under one roof. The 2025 or 16th edition centres on empowering women in the power sector. ELECRAMA 2025 is projected to generate an impressive \$20 billion in revenue.

The event highlights pivotal developments like railway electrification, renewable energy, automation, digital solutions, and initiatives to increase diversity in the sector. Through influential summits and high-level discussions, experts and policymakers—both domestic and international—explored industry challenges, pioneering solutions, and fresh business models that continue to drive change and growth in the electrical ecosystem.

Billed as the largest standalone event in the electrical and allied equipment industry, ELECRAMA has consistently been a cornerstone for advancing the

sector's vision. Organised by the Indian Electrical and Electronics Manufacturers' Association (IEEMA), the event exemplifies India's emergence as a global leader in electrical manufacturing and technological innovation. It spans the full spectrum of electrical solutions, from generation to distribution, and from source to socket, delivering an unparalleled opportunity to witness the latest advancements powering the world.

Platform for unmatched networking and collaboration

ELECRAMA 2025 is designed to be more than an exhibition—it is a gateway to the future of electricity. With participation from over 1,100 exhibitors, 400,000 business visitors, and representation from 80 countries, the event provides an unmatched platform for business and networking opportunities. B2B meetings, global buyer delegations, and country pavilions will allow stakeholders to explore partnerships, investments, and market expansion on a global scale.

The event will also host technical conclaves, innovation showcases, and thought leadership forums, addressing critical challenges and opportunities in the



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power sector. Industry summits on renewable energy integration, energy efficiency, and next-gen grid technologies will shape discussions on the future of sustainable electricity.

India's moment on the global stage

As the world's largest T&D show, ELECRAMA 2025 underscores India's pivotal role in the global power landscape. With the country's electrical and electronics manufacturing industry scaling new heights, the event will serve as a springboard for showcasing indigenous innovation and establishing India as a hub for cutting-edge electrical technologies.

Highlights for 2025

This year's edition promises to set new benchmarks with its scale and scope. 600+ hosted buyers from across the globe will participate, driving cross-border trade and fostering collaborations. Meanwhile, 10+ dedicated country pavilions will highlight international expertise, enhancing the event's global appeal.

Beyond its business potential, ELECRAMA 2025 will also focus on knowledge sharing and innovation, providing a platform for the next generation of leaders and innovators. Through initiatives like the innovation zone and startup showcases, the event will spotlight transformative technologies and cutting-edge solutions that promise to revolutionise the power sector.

Vikram Gandotra, President-Elect, IEEMA and Chairman, ELECRAMA 2025, said, "This event will not only give global recognition to India's energy sector but will also showcase our technological and innovation capabilities to the world. ELECRAMA is no longer just a platform but has become a symbol of energy revolution."

Siddharth Bhutoria, Vice-President, IEEMA and Vice Chairman, ELECRAMA 2025 outlined the significance of the show, "ELECRAMA has established itself as an essential platform for the Indian energy and power sector to engage with global audiences, reflecting the industry's growth and adoption of world-class technology. ELECRAMA 2025 is set to be the largest,



Vadodara Roadshow (L-R): Mahesh Kabra, NEC Member, IEEMA, Vikram Gandotra, President-Elect, IEEMA and Chairman, ELECRAMA 2025 and Satyen Mamtara, NEC Member, IEEMA

most dynamic, and impactful edition to date, featuring Germany as the Focus Country and France as the Associate Partner Country, further enhancing its international appeal. This landmark event will showcase India's leadership in the electrical and allied electronics sectors."

About IEEMA

IEEMA is the apex association of manufacturers of electrical, industrial electronics and allied equipment in India. Founded in 1948, IEEMA is the first ISO certified industry association with encompassing the complete value chain in power generation, transmission and distribution equipment, including new and renewable energy.

IEEMA members contribute to more than 95 per cent of the power equipment installed in India and represent a turnover of over \$70 billion. IEEMA has a PAN India presence with offices in New Delhi, Mumbai, Kolkata, Bangalore and more.

Elecrama 2023

The 15th edition of ELECRAMA 2023 drew 900+ exhibitors, 700+ international buyers, 300+ domestic buyers, 15000 prefixed B2B meetings, \$10 billion worth business enquiries.

Road ahead

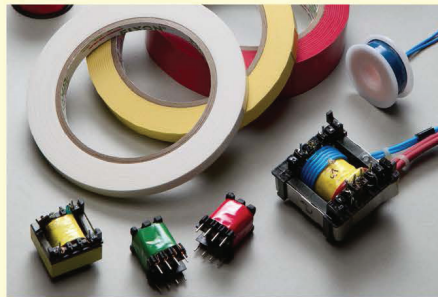
As the countdown begins, ELECRAMA 2025 is set to be the ultimate celebration of all things electric, bringing together the best minds, solutions, and technologies that drive the planet. With its emphasis on collaboration, innovation, and sustainability, the event is more than an exhibition—it is a movement towards shaping a smarter, greener, and electrified future. Stay tuned for ELECRAMA 2025, where the world of electricity meets its future.



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Elecrama 2025

- 16th edition
- February 22-26, 2025
- Greater Noida
- Hosted by IEEMA
- Theme: Reimagining Energy for Sustainable Future
- 1,100+ exhibitors
- 400,000 business visitors
- Representation expected from 80 countries
- Projected revenue- \$20 billion
- Includes- technical conclaves, innovation showcases, and thought leadership forums



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"ELECRAMA is shaping the future of energy."

ELECRAMA 2025 is expected to create several interesting opportunities enabling trade and knowledge exchange. It will highlight advancements in digitalisation, automation, e-mobility, and smart grids, supporting India's energy transition, says **Vikram Gandotra, President – Elect, IEEMA & Chairman, ELECRAMA 2025.**

Can you tell us about ELECRAMA?

ELECRAMA is the flagship showcase of the electrical & allied electronics industry and has grown to be the largest gathering of the power sector ecosystem in the world. From source to socket and all points in between, ELECRAMA unites the whole range of solutions that powers the world. A gateway to the world of electricity, the 16th edition of ELECRAMA promises unparalleled thought leadership forums for everything electric, including technical conclaves, in addition to equipment and technology gatherings. In this edition, we will have 1000+ exhibitors ranging from global multinationals to small scale units from 15 countries, 7 dedicated country pavilions, \$20 billion expected business enquiries, 4,00,000+ business visitor footfalls and much more.



developments in the sector.

We have created several interesting opportunities to enable trade, partnerships, and knowledge exchange. The event highlights advancements in digitalisation, automation, e-mobility, and smart grids, supporting India's energy transition. With thought leadership forums like eTechNxt and the World Utility Summit, ELECRAMA shapes the future of energy and infrastructure on a global scale.

With several top policy makers interacting with industry leaders, we will provide a platform to exchange views and promote the sector for

building an 'Aatmanirbhar and Viksit Bharat'.

What is the significance of ELECRAMA for the electrical and electronics industry (India and globally)?

ELECRAMA is the world's largest show for the electrical and allied electronics industry, showcasing India's manufacturing strength and innovation. With close to 500 international buyers from 80 countries who will form part of the regional buyer-seller meet, a dedicated networking platform designed to foster business partnerships and to encourage the exchange of ideas across the energy sector will be a highlight. Germany is the Focus country and France is the Associate Partner country for this edition of ELECRAMA, and they will showcase their latest technologies of electrical equipment.

IEEMA has invited buyers from domestic utilities, infrastructure companies, large industries like steel plants, cement plants to show them the latest

What new innovations can we expect from ELECRAMA 2025?

ELECRAMA 2025 will showcase innovations shaping the future of energy. This 16th edition of ELECRAMA will introduce several new innovations focusing on emerging industry trends in the areas of digital energy, EV charging, energy storage, renewables/solar and materials. These innovations highlight advancements in smart energy management, battery & charging technology, and sustainable materials to help us in the journey of energy transition. ELECRAMA continues to drive innovation and shape the future of the electrical industry.

How does ELECRAMA support the vision of Make in India?

ELECRAMA strongly supports the Make in India vision by showcasing India's manufacturing excellence in the electrical and allied electronics industry. The Indian industry will showcase its technology and manufacturing prowess. We will provide several platforms to the industry to increase localisation where they may find



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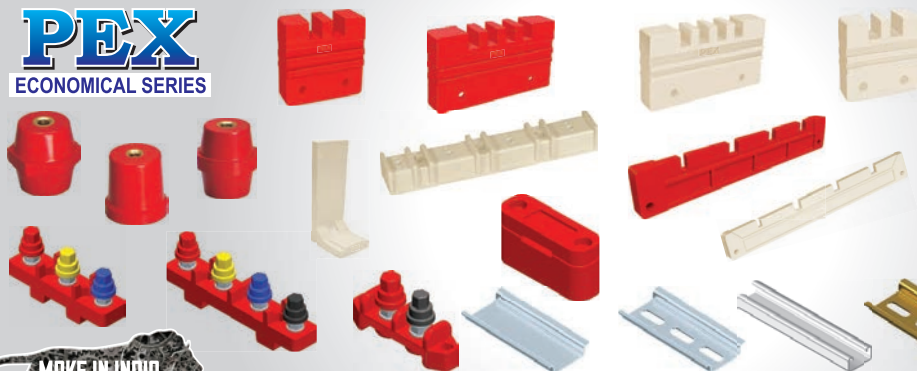
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suppliers for their raw materials and components. The co-located events will provide utilities to share their future investment plans to help the local industry plan expansion of capacities and meet the growing demand.

ELECRAMA provides a global platform for Indian manufacturers to highlight innovations, attract investments, and expand their market reach. By connecting local businesses with international buyers, ELECRAMA boosts exports and strengthens India's position as a global manufacturing hub. It also empowers MSMEs, promotes skill development, and encourages sustainable manufacturing practices.

What do you believe are the most significant challenges facing the electrical industry right now? How is ELECRAMA addressing the same?

India is facing a healthy growth in demand of electricity and increased use of renewable sources to meet this. There are also newer loads like electric mobility and data centres. This is also true in most of the countries across the world. This requires a growing smart grid infrastructure which is very robust and more intelligent than before. This needs very reliable equipment like transformers, circuit breakers, etc. with a very large number of sensors/smart meters and

specialised software tools for forecasting and grid management. Safety and reliability of the network elements is paramount.

These factors are leading to a high growth in the demand of high quality and intelligent electrical equipment. To meet this growth the industry has geared up by increasing capacities, overcoming supply chain constraints, improving skillsets, etc. ELECRAMA 2025 addresses these by showcasing innovations in new areas such as HVDC, FACTS, energy storage, sustainable manufacturing, energy efficiency, smart metering and EV charging technologies. ELECRAMA provides an invaluable platform for the industry and all stakeholders to learn and strategise their next steps in this journey.

How is ELECRAMA helping to shape the future?

ELECRAMA is shaping the future by driving innovation, sustainability, and global collaboration in the electrical sector. It showcases advanced technologies, fosters startups, and promotes integration of green energy. By uniting global stakeholders and supporting 'Make in India' and 'Viksit Bharat 2047,' it strengthens industry growth.



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News Snippet

Statiq unifies EV charging with 'One Country, One App' campaign

Finding an EV charging station can be a challenge, especially when different networks operate independently. Statiq, India's leading EV charging network, is addressing this with its latest campaign—'One Country, One App, All EV Chargers'—bringing charging stations from multiple networks onto a single platform to create a seamless experience for all EV users.

With the Statiq app, drivers no longer need to switch between multiple applications to locate an available charging point. The platform aggregates chargers from various networks, making it easier to find the nearest station, check real-time availability, and complete payments in one place. By ensuring that every charger in a city is accessible through a single app, Statiq is simplifying electric mobility and making it more convenient for users nationwide.

To spread awareness, Statiq has launched billboards across Jaipur, Mumbai, and Ahmedabad. The initiative highlights the importance of a unified charging network in supporting India's shift to electric mobility. Greater

accessibility encourages more people to opt for sustainable transportation, reducing the uncertainties that come with scattered infrastructure.

Akshit Bansal, CEO & Co-founder, Statiq, said, "Charging infrastructure needs to evolve in step with the growing number of electric vehicles on the road. By integrating stations from different networks into one user-friendly platform, Statiq is eliminating a major challenge that EV owners face."

India's EV market is experiencing rapid growth, driven by government incentives, infrastructure expansion, and rising consumer awareness of sustainable transportation. Valued at \$8.49 billion in 2024, it is expected to grow at a CAGR of 40.7 per cent through 2030. With an estimated 50 million EVs expected on the roads by the decade's end, industry reports indicate that the country will require over 1.3 million charging stations to meet demand. Achieving this will require large-scale infrastructure expansion, with projections suggesting over 1.3 million chargers will need to be installed nationwide by 2030.

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"We are now making in India for the world."

Homegrown companies are aligning their approach to manufacturing high-quality products to meet global demand. **Sandeep Agarwal, Vice President- Industrial Products** at the ₹186 billion Noida-based electrical equipment maker, **Havells**, shares insights with SME's Manish Pant.

What are the emerging trends regarding demand in the electrical business?

India, the third-largest electricity producer globally, is seeing significant investments in its \$500 billion electrical industry. The electronics sector, valued between \$100-400 billion, is driving growth. Industry 4.0 is enhancing efficiency and speed in production.

Nearly 45 per cent of electricity is from renewable sources. All these developments necessitate redesigned electrical systems.



The industry has transitioned from 200 (megawatt) MW thermal plants to 800 MW supercritical thermal plants due to digitalisation. This increased generation capacity has necessitated advancements in transmission, with a shift towards DC (direct current) transmission to reduce losses. Modern technologies have also significantly reduced downtime, with innovations like chip card replacements in protection devices streamlining operations.

How is the emergence of new technologies disrupting the sector?

New technologies are bringing both opportunities and challenges. Renewable energy, especially solar power, is a major disruptor, requiring the integration of smart grids. Automation and the blending of renewable and fossil fuels have transformed the landscape. Twenty years ago, exporting power was uncommon; today, it's routine, showing the national grid's evolution.

Advanced technologies have reduced grid issues like frequency changes. The plummeting costs of solar power have pressured traditional power generators like NTPC to adapt. Energy storage, particularly large-scale lithium-ion batteries, has become crucial for better energy management and utilisation. These advancements have disrupted energy management and delivery.

How are these developments impacting the electrical sub-segment?

The electrical sub-segment is rapidly evolving due to technological advancements. These changes enhance power generation, transmission, and distribution. On the generation side, efficiency has improved significantly, with transformers achieving over 95-98 per cent efficiency.

To what extent are Havells production lines meeting the demand from the

renewable energy segment?

The company has developed large-scale cable and flexible wire manufacturing, essential for energy transmission. On the switchgear side, Havells has introduced solutions for DC and high-voltage applications. Additionally, the company has integrated solar inverters into their product lines, establishing dedicated manufacturing lines for renewable products. Although quantifying the exact contribution to renewable energy is challenging, it's estimated to be around 2-3 per cent of the overall production.

Most Havells manufacturing plants prioritise sustainability, with 45 per cent of the R&D budget dedicated to renewable energy initiatives. The company aims to reduce its carbon footprint by 50 per cent by 2030, with 8 per cent of its factory power currently sourced from renewable energy. Havells' commitment to sustainability extends to both industry and in-house operations.

What segments do you see driving growth in the medium and long term?

The automotive sector, particularly electric vehicles, will drive significant growth, with the industry expected

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to grow in double digits and electric vehicles by 4 to 5 times. India aims to increase renewable energy installed capacity from 200 GW to 500 GW by 2030. Infrastructure development, especially in tier 2 and 3 cities and smart cities, is another key growth area. The hospital industry is expanding due to government initiatives, and the data centre sector is expected to boom with increasing demand for data storage. These segments are the focus areas for Havells, with products being developed accordingly by our R&D team.

With India being accepted as the leader of the Global South, homegrown companies like Havells would be an integral part of the country's geopolitical outreach...

Definitely! In the past, our focus was primarily on the Indian market. Today, when our R&D team sits down, we place a global map on the table and consider what is needed worldwide. Our outlook has shifted from purely domestic to a global perspective. We have already started operations in the US, and we are expanding into Europe as well. Previously, our focus was on the Middle East and Africa.

When you talk about manufacturing, how well have programmes like Make in India and PLI (Production Linked Incentive) worked for you?

The Make in India initiative has been a significant growth booster for us. Earlier, like many industries, we faced challenges from low-cost Chinese products. Until a few years ago, Chinese competitors caused considerable disruptions. The government's Make in India initiative has levelled the playing field, supported by the QCOs (Quality Control Orders), similar to the ISI (Indian Standards Institute) mark, ensuring quality standards. This initiative has encouraged even multinational companies to establish plants in India. Customer buying behaviour has shifted, and now products made in India are highly regarded.

Recently, we established two new plants in the south, adding to our existing 14 plants, primarily in the north. One plant focuses on cable production, while the other on air-conditioning. The PLI scheme further supports our production capabilities, enabling us to compete globally and export products.

Our new plants prioritise advanced technology and automation for rapid production. The focus is not only on the Indian market but also on global demand, reflecting a shift in our thought process towards a global market perspective.

That would also require a fair amount of reskilling of the workforce. How are you effectively addressing this aspect?

Reskilling the workforce is indeed a crucial aspect. At Havells, we emphasise both in-house training and corporate responsibility initiatives. Last year, we dedicated around 65,000 learning hours to our team, focusing on new technologies and advanced working methods. These programmes cater to everyone, from workers to supervisors to white-collared employees, enhancing their technical skills.

Additionally, we collaborate with external organisations like the Electronics Sector Skills Council of India (ESSCI) through our 'Maharath' (expertise) programme. This partnership aims to improve the skills of marginalised individuals, including electricians. Last year, we trained around 7,000 people. We also associate with it is (Industrial Training Institutes) in Delhi and Assam to help electricians upskill their knowledge, particularly in the maintenance and repair of equipment blending digital technologies. These efforts ensure our workforce is well-equipped to handle the evolving demands of the electrical industry.

Where do you see the Indian E&E industry headed over the next five years?

With everyone looking at India today, the country will become the epicentre of global demand. Therefore, we are in a transition phase, where developments in the sector will happen at a much faster phase. Renewable energy will be huge. Electrical vehicles will leave the automotive industry completely transformed.

The country's pursuit of achieving net zero emissions by 2070 will become more aggressive with manufacturers also looking at developing sustainable products that are RoHS (Restriction of Hazardous Substances)-compliant. Besides, the upcoming regulations are increasingly emphasising safety and reliability. With what we make here now getting exported to Europe and the Americas, we are now focusing on quality products.

What are Havells' future plans and how do you aim to stay ahead of the curve?

Havells now wants to be seen as not just a major B2C but also a credible B2B player. Today, most of the companies in the latter segment are MNCs. But if you look at it, earlier, the B2C segment from lighting to electrical was also dominated by MNCs. However, you only have Indian companies in the domain today. We have the same vision for B2B.

We are working with a global vision. Not many know that Havells has a big R&D setup comprising over 1,000 engineers. Out of that number, nearly 400 are only working on digital technologies. Digitalisation is the future and we want to be future-ready!



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"Miracle Electronic will build a stronger global presence."

Established in 1994, Miracle Electronics Devices is today one of the leading manufacturers of transformers, inductors, wire harnesses in India. In this interview, **Nilesh S Vadhar, Director, Miracle Electronic Devices Pvt Ltd**, elaborates on the impact of increasing electrification on the market and how the company is meeting the rising demand for efficient power solutions.

How is Miracle Electronic Devices serving the industry?

Miracle Electronic Devices Pvt Ltd is a leading manufacturer of transformers and wiring harnesses catering to industries such as automotive, medical devices, industrial automation, and defence. Our manufacturing facilities are equipped with advanced technology to produce high-quality, customised solutions that meet international standards. We focus on precision engineering, compliance with global certifications, and customised power solutions to support critical applications across various sectors.



(requiring more medical equipment and reliable power solutions), and growth in the EV and automotive sector. Unique Selling Points (USPs) of our products are:

- Customised solutions tailored to specific industry requirements.
- High-quality standards, ensuring compliance with, AS9001 D, ISO 13485, ISO 14001, ISO 9000, Product Certification like UL, and CE.
- Strong export capabilities, with a growing presence in Europe, North America, and Asia.

How do you analyse the status of the Indian manufacturing sector, in general, and the electrical & electronics (E&E) industry, in particular?

The Indian manufacturing sector is growing rapidly, driven by government initiatives like Make in India that encourage local production and reduce import dependency. The electrical & electronics industry is experiencing strong demand due to industrial automation, electric vehicle (EV) adoption, and increasing investments in healthcare and defence. With India positioning itself as a global manufacturing hub, the demand for high-quality transformers and wiring harnesses is expected to grow significantly.

What is driving the demand for your products/solutions & services? What is the USP of your products/technologies?

The demand for our transformers and wiring harnesses is driven by high manufacturing growth (leading to increased demand for industrial machinery and automation), expansion of healthcare infrastructure

What kind of opportunities are you looking to tap in the domestic and export markets?

In the domestic market, we expect following industries to provide big growth potential:

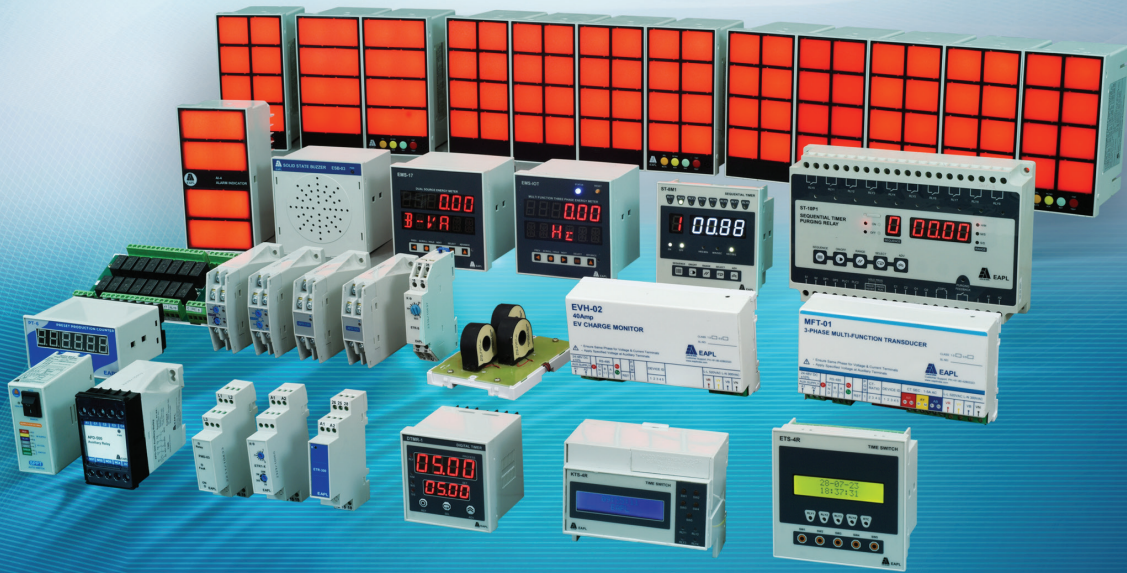
- EV industry: By supplying wiring harnesses for electric vehicles
- Medical devices: By expanding our medical-grade transformers and wiring harness offerings
- Defence & aerospace: By supplying transformers & wiring harness
- Data centres: By supplying transformers for inverters
- Industrial automation: By providing custom power and wiring solutions for automated systems.

With respect to exports, we are strengthening our presence in Europe and North America, where the demand for high-reliability transformers and wiring harnesses is growing. We are also expanding partnerships with OEMs and large manufacturers to establish long-term supply agreements.

How is increasing electrification across

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sectors helping your business to grow?

Electrification across industries is increasing the demand for efficient power solutions and high-performance wiring harnesses. This is particularly relevant in:

- EVs, where specialised high-voltage wiring harnesses and power components are essential for safe and efficient vehicle performance.
- Medical devices, where medical-grade transformers ensure stable and safe power supply for critical healthcare applications.
- Industrial automation, where custom wiring solutions are required to support smart manufacturing and robotics.
- Data centres, where specialised high-KVA transformers and power components are essential for safe and efficient performance

As industries continue to transition toward electric and automated systems, our expertise in power electronics and wiring solutions positions us as a key supplier in this evolving market.

How do you plan to tap end-user industries for future business growth?

We are focusing on:

- EV wiring harnesses, particularly for robotics applications like Autonomous Mobile Robots (AMRs) and Automated Guided Vehicles (AGVs)
- Medical transformers and wiring solutions, ensuring compliance with stringent safety and reliability standards
- Industrial automation by developing customised wiring harnesses and transformers for smart factories.

We are actively collaborating with OEMs and technology companies to expand our market presence in these sectors.

AI, digitalization/automation, and sustainability are the buzzwords today across the industries. How are you planning to tap these trends?

We integrate digital tools and automation to enhance manufacturing efficiency, ensure high product quality, and optimise supply chain operations. Our focus on sustainability includes:

- Using eco-friendly packaging and reducing plastic consumption.
- Adopting energy-efficient processes in our manufacturing facilities.
- Implementing AI-driven quality control to improve accuracy and reduce production waste.

By leveraging these technologies, we aim to improve operational efficiency, reduce environmental impact, and enhance the reliability of our products.

Which other trends are visible in the industry?

Several key trends are shaping the transformer and wiring harness industry:

- Expansion of EVs and charging infrastructure, increasing the need for battery wiring and high-performance transformers.
- Rapid growth in industrial automation, requiring custom wiring and power distribution solutions.
- Increased investments in healthcare, leading to a rise in demand for medical-grade transformers and wiring harnesses.
- A shift toward localised manufacturing, reducing dependency on imports and fostering innovation in India.

These trends are expected to drive demand for reliable, high-quality power solutions in the coming years.

What are your plans for Elecrama 2025?

At Elecrama 2025, we will be showcasing latest products & technologies such as transformers, wiring harness, and box-build.

Our main objectives at Elecrama will be to:

- Strengthen relationships with OEMs, distributors, and industry leaders.
- Showcase our latest transformer and wiring solutions.
- Expand our reach in both domestic and international markets.

Our message to visitors is “Discover high-quality, reliable transformers and wiring harness solutions tailored for the future of aerospace, EVs, medical devices, and industrial automation. Visit us at Elecrama 2025 to explore our latest innovations.”

What are your growth plans for the company in the coming years?

Our short-term goals (1-2 years) for the company are:

- To expand EV wiring harness production to meet the growing demand in India and abroad.
- To strengthen R&D for high-efficiency transformers to support medical and industrial applications.
- To increase domestic partnerships with leading automotive, medical, and industrial automation OEMs.

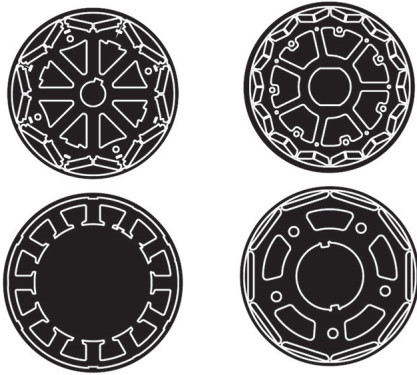
As part of our long-term goals (3-5 years), we plan to:

- Establish a stronger global export presence, focusing on Europe, North America, and the Middle East.
- Invest in new technology for compact and energy-efficient transformers.



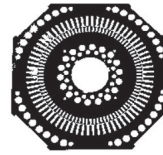
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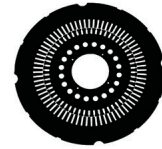


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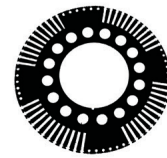
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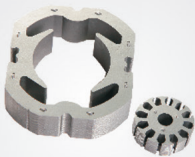


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BABULAL BHANSALI

Managing Director

VIKRAM BHANSALI

Director

“Rise of electrification across sectors has grown demand.”

Our products cater to industries like construction, power distribution, telecommunications, automotive, and infrastructure development. We emphasise innovation, reliability, and sustainability to deliver technologies that empower industries and homes, says **Amit Mathur, President – Sales and Marketing, Finolex Cables Ltd.**

Kindly brief us about your company.

Finolex Cables is a pioneer in the electrical and communication cables sector, offering a diverse range of high-quality products and solutions. Our portfolio includes electrical wires, power cables, communication cables, conduits, LED lighting, fans, water heaters, switches, smart door locks and home automation solutions. With state-of-the-art manufacturing facilities located in Pimpri, Urse, Roorkee and Goa, we ensure world-class quality and adherence to global standards. Additionally, our backward integration enables superior control over raw material quality. Our products cater to industries like construction, power distribution, telecommunications, automotive, and infrastructure development. We emphasise innovation, reliability, and sustainability to deliver cutting-edge technologies that empower industries and homes.



At Finolex Cables, we are prepared to capitalise on these trends through our advanced, reliable, and sustainable solutions.

What is driving the demand for your products? What are the USPs of your technologies?

The demand for Finolex Cables' products is driven by the evolving needs of modern infrastructure, rapid urbanisation, and the push for safe and energy-efficient solutions. Our diverse portfolio—ranging from electrical wires, power cables, and conduits to smart locks, smart doors, BLDC fans, and LED lighting—ensures we remain at the forefront of innovation. One of our standout offerings, FinoUltra Wires, represents a game-changing advancement in electrical safety and efficiency. Utilising Electron Beam (E-Beam) technology, these wires offer 75 per cent higher current capacity than conventional wires, minimise overheating, and significantly reduce energy loss. Their low smoke zero halogen (LSZH) composition, rodent & termite resistance, and superior mechanical strength make them ideal for high-risk environments such as malls, hospitals, metro stations, and airports, ensuring longevity of over 50 years.

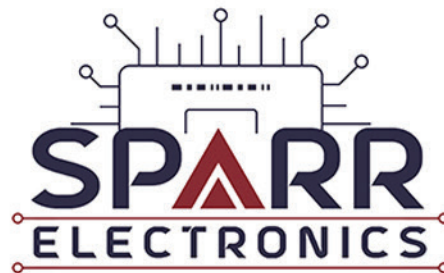
Beyond wires, our commitment to innovation extends to smart home solutions like smart door locks and smart switches, which enhance security with cutting-edge technology, and BLDC fans, which deliver superior energy efficiency and durability. Every product in our portfolio is designed to optimise safety, reduce environmental impact, and enhance user experience, setting new benchmarks in the electrical and home solutions industry.

How do you analyse the status of the Indian manufacturing sector in general and E&E industry in particular?

The Indian manufacturing sector is witnessing robust growth, supported by initiatives like Make in India, Production Linked Incentive (PLI) schemes, and large-scale infrastructure development projects. Exports are also gaining momentum due to global demand for quality products.

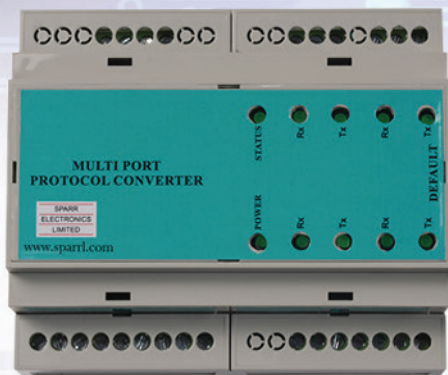
The electrical and electronics (E&E) industry is benefiting from the rapid adoption of renewable energy and digital transformation, along with increasing demand for energy-efficient products. Challenges such as supply chain disruptions and raw material price fluctuations persist, but the push for local manufacturing and smart technologies offers immense growth potential.

What kind of opportunities are you



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Multiport Protocol Converter



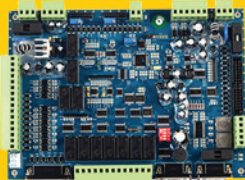
Zero Config Serial Tunnelling
through the Cloud



WhatsApp / SMS Alerter

Core Competencies

- Design-to-Delivery Solutions**
Customized products
- Controller Boards**
Intelligence for electronic systems
- Protocol and Interface Converter**
Making heterogeneous devices communicate
- Wired & Wireless Connectivity Solutions**
Flexible connectivity solutions, interconnecting legacy & modern systems
- Remote Monitoring Solutions**
Remote data for analysis
- IT Security & Managing Solutions**
Monitoring IT infrastructure for communication and IT security



Customized
Controller Boards



RS485-422
Isolator Repeater



RS232 to
RS485-422 Converter

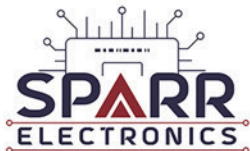


USB to
RS485-422 Converter



USB to
Serial Converter

*All products are developed / manufactured by us and can be customized to your specific needs.



CONTACT US

SPARR ELECTRONICS LTD

#414A, 7th Main Road, 1st Block, HRBR Layout, Banaswadi, Bengaluru – 560043, Karnataka, India.

Web: www.sparrl.com | Email: sales@sparrl.com, info@sparrl.com

Mobile: 9900477055

Phone: +91-80-41278033



looking to tap in the domestic and export markets?

Finolex Cables' growth strategy focuses on innovation, expanding its product range, and tapping into emerging market trends. The company is responding to evolving consumer preferences by introducing smart products like switches, door locks, and home automation solutions, meeting the growing demand for energy-efficient, connected devices. Additionally, Finolex has launched FinoUltra wire, a premium product with a 50-year lifespan, higher current capacity, and resistance to environmental risks, catering to critical infrastructure needs.

The company is also capitalising on the government's renewable energy push with solar wires developed using E beam technology. Expanding its presence in Tier 3 and Tier 4 cities, Finolex aims to meet rising demand for smart infrastructure in rapidly developing regions.

To boost awareness, Finolex is working with builders and contractors to promote certified, high-quality electrical systems. On the international front, the company is targeting regions with growing infrastructure needs, focusing on telecommunications, renewable energy, and housing, while forming strategic partnerships to expand its global reach.

With electrification increasing, how is it helping your business grow?

The rise of electrification across sectors has significantly boosted demand for our cables and wires. As industries like EVs, renewable energy, and smart homes expand, they require highly efficient electrical systems, which we provide. Electrification in rural areas and infrastructure projects has also driven demand for durable and cost-effective solutions, making our products an integral part of energy distribution networks and smart energy systems.

How are you planning to tap into current trends?

We are integrating AI and automation into our manufacturing processes to enhance efficiency, ensure consistent quality, and reduce operational costs. Digitalisation is transforming our supply chain management and customer engagement, enabling better responsiveness and scalability. Sustainability remains a core focus, and we are adopting energy-efficient manufacturing processes, recyclable materials, and eco-friendly practices to minimise environmental impact, ensuring we meet the demands of modern, responsible industries.

Which other trends are visible in the industry?

The industry is witnessing trends like the rapid

adoption of renewable energy, the rise of green technologies, and the shift toward local manufacturing. Smart energy systems and IoT-based solutions are becoming increasingly prevalent, driving demand for advanced electrical and communication solutions. Additionally, increased focus on safety, energy efficiency, and long-lasting products is shaping customer preferences. At Finolex Cables, we are continuously innovating to adapt to these trends and remain ahead in a competitive landscape.

What are your growth plans?

Finolex Cables is positioning itself for significant growth in the coming years with a clear strategy focused on innovation, market expansion, and operational efficiency. We are in the process of implementing a ₹5 billion capex program that will expand our manufacturing capabilities. In addition we will focusing on the below key areas to drive progress:

- **Expansion of product portfolio:** Finolex plans to diversify and expand its product offerings, particularly in the home automation space. With the introduction of products like BLDC fans, smart switches, and smart door locks, the company is clearly entering the rapidly growing smart home market. These initial steps reflect a broader vision of integrating smart, energy-efficient technologies into everyday living, catering to the increasing demand for convenience, sustainability, and security. Over the coming years, Finolex aims to introduce more innovative products, leveraging advancements in technology to stay ahead of the curve.
- **Market expansion:** Finolex recognises the growing potential of smaller towns, particularly in Tier 3 and Tier 4 towns, where infrastructure development is accelerating due to government investments. These areas are expected to see increased demand for both basic electrical products and advanced technology solutions, including home automation systems. Finolex plans to expand its presence in these regions by targeting underserved markets, providing a mix of affordable, high-quality products for everyday consumers, as well as premium solutions for the growing tech-savvy segment in these towns.
- **Strengthening manufacturing capabilities:** A key component of Finolex's strategy is the enhancement of its manufacturing capabilities. This will involve embracing automation and digitalisation across facilities to improve operational efficiency, increase production capacity, and reduce costs. Finolex aims to streamline its processes, ensure consistent product quality, and boost its ability to meet rising demand.



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"We will be unveiling smart grid solutions in 2025."

Established in 1966, the Rajasthan-based Elektrolites has been playing a pivotal role in the transformation of the Indian power sector over the years. In this interaction, **Anil Saboo**, Chairman and Managing Director, Elektrolites Power Pvt Ltd, and past President (2020–21) of IEEMA, explains the trends in the industry and the company's plans for ELECRAMA 2025.

How is Elektrolites serving the energy sector?

Elektrolites has been a key player in the energy sector, providing cutting-edge electrical and electronic solutions that enhance grid reliability, efficiency, and safety. Our comprehensive range of products—including protection devices suitable to be operated through SCADA systems, substation automation products and smart solutions—helps utilities, industries, and infrastructure projects achieve seamless operations. By integrating advanced technology with robust engineering & electronics we support the evolving needs of the power sector, ensuring sustainable and efficient energy management.



How are sectors like T&D, renewable energy, electrical vehicles, railways, etc, driving the demand for your products & services?

With rapid advancements in Transmission & Distribution (T&D), renewable energy, electric vehicles (EVs), and railways, the demand for reliable and smart electrical solutions is at an all-time high. Elektrolites is meeting this demand with advanced protection and control systems for digital substations, and grid monitoring technologies/solutions. One of our product 11 kv & 33 kv fault passage indicators help utilities to optimise power distribution, reduce outages, and improve grid resilience. We provide specialised smart grid solutions to ensure efficient and safe railway electrification and metro networks also.

What are emerging trends in the industry?

Some key emerging trends shaping the electrical and energy sector include:

- Grid digitalisation & smart grids: Adoption of IoT, AI, and cloud-based solutions to enhance grid efficiency and resilience.
- Renewable energy expansion: Increasing integration of solar, wind, and battery storage systems into the grid.
- Electrification of transportation: Growth in electric vehicles and charging infrastructure, requiring advanced power management solutions.
- Energy storage & microgrids: Rising demand for energy storage systems and decentralised power generation to enhance energy security.
- Cybersecurity in power systems: Growing focus on securing power infrastructure from cyber threats through advanced monitoring and protection systems.

What do you expect from ELECRAMA? What new products are you introducing?

ELECRAMA serves as a premier global platform for showcasing our innovative solutions, engaging with industry leaders, and fostering collaborations. It offers us the opportunity to demonstrate our commitment to driving technological advancements in the power and energy sector.

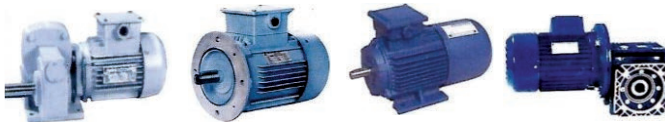
In 2025, we are introducing smart grid solutions and advanced lightning protection systems. Our foreign collaborators from Germany, Australia and Sweden will also be present at stall. These solutions focus on enhancing safety, improving energy efficiency, and integrating digital technologies for real-time monitoring and control.



SME

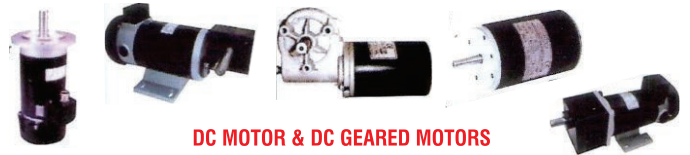
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Place For Industrial Automations



AC INDUCTION MOTORS & GEARED MOTORS

- AC Induction Motor Single Phase & Three Phase
- AC Worm Reduction Gear Motor Single & Double
- AC Inline Gear Motor
- AC/DC Universal Motor
- AC Motor with Hollow Shaft Gear Box



DC MOTOR & DC GEARED MOTORS

- DC Shunt wound Motor 1/8 HP to 7.5 HP 220 Volts
- DC Shunt Motor with worm Gear Box 220 Volts DC
- Low Voltage DC shunt Geared Motor
- PMDC Motor 1/8 HP to 3 HP 12/24/48/90/110/180 Volts DC



TEMPERATURE CONTROLLER & THERMOSTAT

- Digital Temperature indicator cum-controller upto 1600°C
- Capillary Type Thermostat 0-50, 30-100 & 50-300 Deg
- Thermal Cutouts & Fuses
- Bimetal Type Thermostats
- Thermistors
- J & K type Thermocouple and RTD



DIGITAL TIMERS & COUNTERS

- Electronics Timers Plug in / Panel mounting type interval On / Delay On equal & unequal On/Off
- Mechanical Timer 15, 30, 60 & 120 minutes.
- Digital Timers & Counters.
- 24 Hours Program me timers with & without battery backup



INSTRUMENT COOLING FANS & BLOWERS

- Instrument cooling fan 4", 6", 8" Bush & Ball Bearing
- Centrifugal Blowers
- Cross Flow Fans
- Axial Flow Fans 8", 10", 12"



AC SYNCHRONOUS MOTOR & GEAR MOTORS

- AC Synchronous Motors
- DC Stepper Motors
- AC Synchronous Gear Motors
- AC Servo and DC Brush less Motor



AC SHADED POLE MOTOR & GEAR MOTOR

- AC Shaded Pole Motor 9-45 watts
- AC Shaded Pole Motor with 3" 4" & 6" Al Blade
- AC Shaded Pole Gear Motor 5-140 RPM



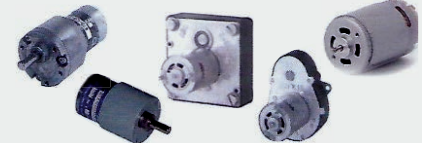
MOTOR SPEED CONTROLLER DRIVES

- AC Drive VFD
- Stepper Motor Drive
- DC Drive
- AC / DC Motor Controller



SWITCHES & SENSORS

- Micro Switches & Limit Switches
- Mercury Switches
- Foot Switch
- Proximity Sensors 6-30 mm
- AC & DC Diffusion - Color Mark - Through Scan - Temperature Sensors
- Solid State Relay



DC MICRO MOTOR & DC MICRO GEAR MOTOR

- DC Micro Motor 3, 6, 12 & 24
- DC Micro Gear Motor 12 & 24 V, 1-300 RPM



MOTOR

AC INDUCTION MOTOR,
AC INDUCTION BREAK MOTORS

GEAR BOX
HALLOW SHAFT WORM GEAR BOX,
HELICAL GEAR BOX,
HELI BEVEL GEAR BOX,
PARALLEL SHAFT GEAR BOX



COMPACT AC/DC GEARED MOTOR

COMPACT AC/DC GEARED
MOTOR WITH SPEED CONTROLLER



Encoder



AC & DC Solenoid



SSR



Vacuum Blower



Break



SMPS



Variac



Linear Actuator



Limit Switch



Clutch



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Email : ambikaramesh@hotmail.com, info@ambikatrading.com
Website : www.ambikatrading.com

Indian Electrical Equipment Market to Jump by \$76.24 Bn

India's transition to sustainable and energy-efficient solutions, along with expanding industrial and residential sectors, offers significant opportunities for companies in the Indian electrical equipment industry, says Technavio report. This article explores key trends, growth drivers, challenges, and the changing competitive landscape of the market in India.



Source: FreePik.com _ electrical equipment market 2

The Indian electrical equipment market is poised for significant growth driven by rising demand across residential, commercial, and industrial sectors, technological advancements, and government initiatives focused on infrastructure development and renewable energy integration. The market is likely to witness an incremental growth of \$ 76.24 billion at a compound annual growth rate (CAGR) of 14.3 per cent from 2024 to 2028, according to Technavio, the market research company.

Some of the factors driving the market are:

- **Infrastructure development drives electricity demand:** India's infrastructure boom is a major driver for electrical equipment demand. Rapid urbanization, a growing population, and government-backed housing and commercial projects are fueling the need for advanced electrical systems. Cities like Bengaluru, Gurugram, Pune, and Hyderabad are seeing high construction activity, increasing the demand for transformers, switchgears, and wiring devices. Efforts to modernise the electrical grid and integrate renewable energy sources further boost demand for specialised electrical components.
- **Integration of renewable energy and smart**

grids: India's transition to renewable energy, including solar and wind power, is creating new opportunities for manufacturers of electrical components like energy storage systems and transformers. The government's push for smart grid infrastructure is driving the adoption of advanced equipment capable of handling decentralized and intermittent renewable energy.

- **Cross-border electricity trading:** Cross-border electricity trading with Nepal, Bhutan, Bangladesh, and Myanmar is emerging as a key trend. This initiative balances demand and supply, reduces power shortages, and strengthens regional energy security. It also spurs demand for advanced transmission and distribution equipment.
- **Cybersecurity risks:** With the increasing reliance on digital technologies, cyberattacks targeting power generation and distribution pose a serious challenge. Threats like data breaches and infrastructure disruptions can lead to widespread power outages. To address this, manufacturers and utilities are enhancing cybersecurity measures to protect critical systems.

Growth opportunities

The electrical equipment market in India is segmented into key product categories, including cables, transmission lines, transformers, switchgears, and energy storage systems, each playing a critical role in supporting infrastructure growth.

India's electrical equipment demand varies across regions. Major urban centers like Mumbai, Delhi, and Chennai lead the way due to large-scale infrastructure projects. Rural areas and smaller cities also present significant opportunities as electrification efforts and grid modernization continue.

States like Gujarat, Tamil Nadu, and Rajasthan, with substantial investments in renewable energy, are key markets for advanced electrical products facilitating

energy generation, storage, and distribution.

Some of the key market trends shaping the future of the industry include:

- **Smart grids and energy efficiency:** The government's focus on smart grid technologies is driving demand for intelligent energy management systems. These systems enhance grid stability, optimize power usage, and integrate renewable energy more effectively.
- **Electric Vehicle (EV) adoption:** With growing EV adoption to reduce emissions and dependence on fossil fuels, the demand for batteries and charging infrastructure is rising, providing a significant boost to the electrical equipment sector.
- **IoT and industrial automation:** The increasing use of Industrial Internet of Things (IIoT) and automation technologies across industries is driving demand for electrical components like sensors, actuators, and control systems.
- **Cross-border electricity trading:** This trend supports grid stability and efficient energy distribution, boosting demand for high-quality transmission equipment.

Market outlook

The Indian electrical equipment market is expected to grow steadily, driven by rising electricity consumption, infrastructure development, and advancements in energy management technologies.

India's transition to sustainable and energy-efficient solutions, along with expanding industrial and residential sectors, offers significant opportunities for market players. Companies investing in smart grids, energy storage, electric mobility, and industrial



India's transition to sustainable and energy-efficient solutions offers significant opportunities for market players.

Source: FreePik.com

automation will be well-positioned to lead this growth.

As the country modernises its electrical infrastructure, the market will remain dynamic and competitive, fostering continuous innovation and growth opportunities.



Article Courtesy: Technavio



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Product Showcase

MODUTEC offers modular electrical enclosures

MODUTEC offers high-performance modular enclosures for MCC, PCC, APFC, automation, and control & relay applications, designed for low voltage (LV) and medium voltage (MV) systems with Form 1 to Form 4b configurations. The company's enclosures are certified to IEC 61439 Part 1 & 2 with six major switchgear brands and are Internal Arc Accredited, ensuring superior IP ratings, enhanced safety, and long-lasting durability. The flat-pack design minimizes freight costs and inventory space, making it a cost-effective solution for panel builders. MODSIM, its advanced estimation software, streamlines workflow by



converting requirements into GA drawings, detailed BOM lists, and price breakups—ensuring precision and efficiency. Made with 80% Alu-Zinc, MODUTEC's enclosures offer high corrosion resistance, improved efficiency, and sustainability. Designed for performance and reliability, MODUTEC's standardised solutions maximise operational efficiency while supporting green initiatives.



For details, contact Modutec Ready Panels Pvt Ltd, Bangalore, on Mob: +91 99014 59624, or Email: sales@modutec.net, or visit www.modutec.net

OMICRON's CMC 500 Sets Example in Protection Testing

The CMC 500 achieves high testing efficiency through standardised test plans and nearly fully automated execution that includes necessary documentation.



CMC 500 – Modular, multi-phase protection relay test set and commissioning tool

The modular, multi-phase CMC 500 protection relay test set enables highly efficient testing of protection relays and complete validation of protection systems. It sets new benchmarks for output performance, versatility, cybersecurity and workplace safety. With up to seven voltages (300 V each) or ten currents (30 to 60 A per channel, 450 A single-phase), the CMC 500 supports a wide range of applications, making it ideal for field use and commissioning in conventional, hybrid and digital IEC 61850 substations. The device is available in five variants, each compact and lightweight (12.1-15.6 kg) to suit specific needs.

Meeting increasing testing demands with efficiency

The CMC 500 achieves high testing efficiency through standardised test plans and nearly fully automated execution that includes necessary documentation. Compared to manual testing, this can reduce testing efforts by 80 per cent. The ease of repeatability and reproducibility ensure consistently high test quality without additional effort. Powerful

software options enable efficient testing of both setting parameters and correct protection system behavior.

Designed for the challenges of today and tomorrow

Communication protocols such as GOOSE, R-GOOSE, MMS and Sampled Values (including those with configurable datasets) are supported, enabling testing of both current and future relay generations. These protocols integrate seamlessly into test plans, allowing automated testing benefits to be fully utilized in IEC 61850 environments.

Cybersecurity by design for protecting critical infrastructure

The CMC 500 has been rigorously hardened to minimise cyber threats in substations. Equipped with an ISO/IEC-11889-compliant Trusted Platform Module (TPM2.0), it uses certificates and secure boot to prevent execution of unknown software or malicious code. Additional security features include unique device authentication and encrypted, password-protected communication between the device and PC. OMICRON's company-wide cyber security concept is integral to development and continues throughout the entire product lifecycle.



Operational mode button and INTERLOCK key for maximum workplace safety



High output power also enables testing via primary power supply

More safety for users during testing

The multi-level safety concept in accordance with ISO 13849-1, includes an interlock key and an operating mode button to ensure a high level of occupational safety. Red signal lights on the device provide a clear indication of any potentially dangerous output status at all times. Additionally, an interface for several external emergency switching off buttons (available soon) allows for simple installation of safe test setups in accordance with EN 50191.

A versatile application

The CMC 500 offers an extensive range of applications, testing protection relays across all generations, including the latest protection technologies such as relays with sensor inputs and traveling wave protection relays. It also enables functional tests on current transformers, circuit breakers and transducers. With ten measurement inputs (binary and analog) for real-time measurements and signal recording, the device supports rapid troubleshooting or analysis of switching operations. A variety of accessories is also available for specialized testing tasks.



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DNV's Smart Cable Guard for Uninterrupted Power

At Elecrama 2025, DNV will show how Smart Cable Guard is driving the energy transition and the digitalisation of power grids



Det Norske Veritas (DNV) will display Smart Cable Guard - a proven digital solution for real-time monitoring of distribution cables - at Elecrama 2025. DNV will show how Smart Cable Guard is driving the energy transition and the digitalisation of power grids and helping them minimise financial and reputational risks by providing a reliable and resilient network for uninterrupted performance.

The smart technology

Unlike offline solutions which provide a sporadic snapshot of a cable's condition, Smart Cable Guard offers round-the-clock monitoring for total visibility. It detects cable faults, for example caused by excavation works, in minutes. Moreover, it can identify weak spots in the cable, often many weeks or months before they develop into actual faults.

Smart Cable Guard offers a cost-effective way to keep the lights on. The cutting-edge digital cable monitoring technology gives the user complete visibility on cable conditions - in real time, 24 hours a day, 7 days a week. It rapidly detects faults but also weak spots that could develop into faults - so one can stop outages before they occur. Smart Cable Guard has been shown to reduce distribution cable failures by as much as 70 per cent. Both faults and weak spots are located within 1 per cent of the cable length, allowing you to act faster.

Some of the key benefits of Smart Cable Guard are:

- Fewer cable-related outages, including failures in joints and terminations
- Faster power restoration
- 24/7, real-time data for proactive decision-making
- Optimises use of budgets and resources through preventive maintenance
- Excellent return on grid investment

In 2012, the first Smart Cable Guard systems were deployed in the distribution network of Alliander (a Dutch energy utility company that distributes electricity, gas, and heat) with results that continue to impress. Over time, the Smart Cable Guard concept has been refined and upgraded. The solution was made more cost effective. Meanwhile, machine learning and artificial intelligence expertise improved noise reduction to eliminate false positives. This led to today's solution - which some users have reported has reduced distribution cable failures by 70 per cent.

Technical support

But Smart Cable Guard is more than just the hardware and software. Each installation receives expert technical support at all stages: from planning to operation. This ensures that the Smart Cable Guard installation is optimised to the user's specific needs. And that the user receives tailored recommendations on what actions to take after an alert, based on their extensive industry experience. So, grid operators around the world are increasingly turning to Smart Cable Guard to improve reliability in their distribution networks.

DNV: In the energy industry

DNV is an independent assurance and risk management provider, operating in more than 100 countries. Through its broad experience and deep expertise DNV advances safety and sustainable performance, sets industry standards, and inspires and invents solutions. DNV provides assurance to the entire energy value chain through its advisory, monitoring, verification, and certification services. As the world's leading resource of independent energy experts and technical advisors, the assurance provider helps industries and governments to navigate the many complex, interrelated transitions taking place globally and regionally, in the energy industry. DNV is committed to realising the goals of the Paris Agreement, and supports customers to transition faster to a deeply decarbonized energy system.



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Hitachi to Display Innovations in Power Electronics

Hitachi Hi-Rel, alongside Hitachi Energy will mark its presence at the expo and highlight its advanced solutions aimed at transforming distribution networks to meet evolving energy demands.

Hitachi Hi-Rel Power Electronics Pvt Ltd (Hitachi Hi-Rel) will actively participate in ELECRAMA

2025, scheduled to take place from February 22 to 26 at the India Expo Centre, Greater Noida. The premier exhibition will provide an excellent platform for Hitachi Hi-Rel to showcase its power electronics solutions, further strengthening its position as an industry leader.

During the event, Hitachi Hi-Rel will exhibit a wide range of innovative products, expected to draw significant attention from industry experts, customers, and the media.

Key highlights of its display will include:

- **Industrial UPS:** The i4eti Model 160 kVA AC UPS with i4 Series and i6et UPS prototype models.
- **IT & infra UPS:** The HM33 Series, featuring the HM-33-60-3X Modular UPS Model.
- **Grid-tied solar string inverters:** The HIVERTER SI-350K Model.
- **Medium voltage drives:** The HIVECTOL-E and HIVECTOL-E2 Series demo prototypes.
- **Low voltage drives:** The C1-150HFC2 (15 kW), SH1-00930-HTCF (37 kW), and SJ-IN1-6600-H (315 kW) models.

The booth is expected to be a key attraction at ELECRAMA 2025, engaging visitors and generating interest in its power electronics solutions.

Darshan A Shah, Managing Director, Hitachi Hi-Rel Power Electronics Pvt Ltd, stated, "ELECRAMA 2025 will reaffirm our leadership in the power electronics industry. This exhibition will allow us to showcase our latest advancements and connect with the Indian and global power electronics community. Our commitment to innovation and customer satisfaction remains our priority, and we are confident that these efforts will continue driving our growth and success."

Alongside Hitachi Hi-Rel, Hitachi Energy will also mark its presence at ELECRAMA 2025, highlighting its advanced solutions aimed at transforming distribution networks to meet evolving energy demands. Visitors will explore a curated range of innovations, including:

- **Digital substations:** Featuring a comprehensive

portfolio for improved protection, control, and monitoring.

- **Power conversion and grid edge solutions:** Enabling energy autonomy, economic opportunities, and seamless renewable integration.
- **Digital solutions:** Showcasing Lumada Asset Performance Management (APM) software to maximise uptime, minimise downtime, and reduce operational costs.
- **Power quality solutions:** Offering a portfolio of products, systems, and services designed to optimise energy efficiency and reliability.

Exclusive technologies at ELECRAMA 2025

Hitachi Energy will introduce revolutionary solutions to help customers achieve sustainability goals and move towards carbon neutrality. Among the key innovations will be:

- **Eco-efficient high-voltage solutions:** The EconiQ™ 420 kV GIS, which eliminates SF6 for a lower carbon footprint.
- **SAM600 digital substation solutions:** A modular, eco-friendly system improving safety, efficiency, and operational performance.
- **Transformer Voltage Protection (TVP®) technology:** Proven to enhance transformer reliability, with over 2,500 units expected to be installed globally in critical applications.
- **Relion REF650 feeder protection relay:** A compact, multi-application relay designed for medium-voltage power distribution grids, enhancing reliability and reducing maintenance costs.

Looking ahead

With ELECRAMA 2025 set to serve as a springboard for innovation and collaboration, Hitachi Hi-Rel and Hitachi Energy will reaffirm their commitment to delivering advanced power solutions for a sustainable future.



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DEHN to Exhibit Latest Lighting Solutions at the Expo

Attendees at ELECRAMA 2025 will have the opportunity to meet DEHN's technical experts and engage in face-to-face discussions about the challenges they face in lightning and surge protection, earthing, safety equipment, and smart devices.

DEHN, a leader in electrical safety solutions, is set to showcase its cutting-edge innovations at ELECRAMA 2025, one of the largest and most significant exhibitions in the Indian electrical and power industry. The event, taking place from February 22 to 26 at the India Expo Centre & Mart in Greater Noida, Delhi NCR, serves as a key platform for companies to present their latest advancements in electrical and allied equipment. DEHN's participation is a testament to its commitment to enhancing safety across a range of industries with high-performance lightning and surge protection solutions.

In today's world, reliable lightning and surge protection is critical for a wide range of applications, including industrial settings, energy and raw materials supply, telecommunications, and data centres. These safety systems play a vital role in minimising risks, ensuring a constant flow of data, and preventing damage or system failure, all of which are crucial for the seamless operation of modern infrastructure. With extensive expertise in the development and optimisation of lightning and surge protection concepts, DEHN has built a reputation for delivering solutions that safeguard critical systems and assets. The company's knowledge extends to specialised engineering services, such as conducting individual risk analyses and performing rigorous testing, ensuring that every solution is tailored to the unique needs of its clients.

At ELECRAMA 2025, visitors can explore DEHN's wide range of products designed for futureproof plants and systems. Among the highlights are the innovative DEHNrecord SD EPMS and DEHNrecord SD CPMS, both of which are at the forefront of predictive maintenance and real-time monitoring. These systems offer deep insights into the health and performance of electrical systems, helping prevent failures and reduce maintenance costs.

The DEHNrecord SD EPMS is a state-of-the-art system specifically designed for monitoring the effectiveness of earthing systems. It provides real-time monitoring, remote access, and intelligent diagnostics, allowing operators to ensure that their installations are continuously safe and reliable. This system is crucial for



industries where system integrity is paramount, and any downtime or failure could result in significant financial losses or safety risks.

Similarly, the DEHNrecord SD CPMS is a cathodic protection monitoring system aimed at safeguarding pipelines from corrosion. This innovative solution automates the monitoring of cathodic protection systems, allowing pipeline operators to access the monitoring data whenever required. By offering real-time insights, this system helps reduce the risks associated with corrosion, extends the service life of pipelines, and minimises downtime—ultimately enhancing the reliability and efficiency of critical infrastructure.

DEHN's offerings extend across multiple industries, with tailored protection solutions for sectors such as oil and gas, telecommunications, and renewable energy. These solutions not only increase the availability and service life of installations but also provide businesses with the tools to better manage their assets and reduce risks.

Attendees at ELECRAMA 2025 will have the opportunity to meet DEHN's technical experts and engage in face-to-face discussions about the challenges they face in lightning and surge protection, earthing, safety equipment, and smart devices. This will allow participants to discover customised solutions based on their requirements.



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Newtek Electricals to Highlight Precision Tech

Visitors to the stall will have the opportunity to engage with Newtek's engineers and discover customised solutions tailored to meet their specific requirements.

Newtek Electricals is thrilled to announce its participation at ELECRAMA 2025, one of the largest electrical exhibitions in the world. Newtek Electricals will be exhibiting at **Stall H9-C8, Hall 9-12** at ELECRAMA 2025. With a focus on precision engineering and cutting-edge technology, Newtek aims to offer valuable insights into the latest trends and innovations shaping the energy sector.

Highlights of Newtek's Stall at ELECRAMA 2025?

Newtek Electricals invites industry professionals to explore a diverse range of products that meet the evolving needs of the modern energy sector. Newtek's low and medium-voltage instrument transformers are built with meticulous attention to detail, ensuring precise measurements and reliability. These transformers comply with IEC standards, offering trusted solutions for critical applications in the power sector.

Newtek's split core current transformers (CTs) are designed for easy retrofitting, allowing quick installation in existing systems with minimal downtime. These transformers are ideal for industries looking to modernise their infrastructure swiftly and efficiently.

Newtek's resin-cast transformers are engineered for harsh environments, providing exceptional insulation and mechanical strength. They are proven to perform reliably in demanding operational conditions, ensuring long-lasting durability.

Designed to ensure smooth and uninterrupted operations, Newtek's control transformers offer stable voltage for industrial control systems. Available in both single-phase and three-phase configurations, these transformers cater to diverse industrial needs.

With over 70,000 successful projects under its belt, Newtek Electricals has earned a solid reputation as a reliable partner for the power industry. Visitors to the stall will have the opportunity to engage with Newtek's engineers and discover customised solutions tailored to meet their specific requirements.

What's new?

At ELECRAMA 2025, Newtek Electricals is



introducing several new and improved products designed to address the dynamic needs of the energy sector:

- 1. Expanded split core CT range**
The expanded range of split core current transformers offers enhanced versatility for applications such as load analysis and energy audits, along with the added advantage of quick installation.
- 2. Space-saving MV transformers**
Newtek's new medium voltage (MV) transformers are designed for installations where space is limited. Despite their compact size, they maintain the same high standards of accuracy and reliability for which Newtek is known.
- 3. Upgraded control transformers**
With improvements in thermal efficiency and voltage regulation, Newtek's upgraded control transformers provide optimal performance for industrial systems with demanding loads.
- 4. Hands-on product displays**
Visit Newtek's stall to explore the innovative functionality of products such as the Gun Type MV Transformer and other split core transformers. Learn how these products can improve operational efficiency and system performance.
- 5. Expert advice on-site**
Newtek's team of experts will be available for consultations, offering practical solutions and guidance for optimising your systems. Whether addressing specific challenges or planning for future projects, Newtek is ready to provide valuable advice.



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Siemens to Focus on Grid Solutions for Sustainability

These technologies enable real-time monitoring, predictive maintenance, and automation, enhancing grid resilience and ensuring reliable power delivery, even under challenging conditions.



At ELECRAMA 2025, Siemens will demonstrate its pivotal role in shaping the future of infrastructure, grids, and industry by showcasing its transformative solutions designed to promote sustainability and digitalisation. The company is set to highlight its ground-breaking innovations that empower businesses, communities, and individuals, focusing on the intersection of electrification, digitalisation, and sustainability.

Siemens is placing digitalisation and advanced technology at the heart of its infrastructure solutions, enabling scalable, sustainable impact for customers. The company is dedicated to creating adaptable, future-ready environments that are customised to meet diverse user needs. Through the integration of cutting-edge innovations, Siemens aims to drive decarbonisation, enhance resource efficiency, and prioritise people-centric outcomes, contributing to a greener and more resilient future.

Revolutionising energy

At the event, Siemens will highlight its efforts in transforming grids into smarter, more sustainable systems. Through innovative digital grid technologies, Siemens is helping utilities and industries adapt to the evolving energy landscape. These technologies enable real-time monitoring, predictive maintenance, and automation, enhancing grid resilience and ensuring reliable power delivery, even under challenging conditions. Siemens' solutions also facilitate the seamless integration of renewable energy sources,

offering greater flexibility and energy efficiency.

Siemens is at the forefront of enabling Indian manufacturing enterprises to embrace the future of automation and digitalisation. By combining real-world automation with digital information technologies, Siemens helps customers evolve into Digital Enterprises. Leveraging AI, private 5G networks, cybersecurity frameworks, and intelligent systems, Siemens supports manufacturers in becoming secure, scalable, and sustainable, enhancing transparency and operational efficiency.

Electrification X

Siemens' Electrification X is transforming the energy landscape by offering smart and sustainable solutions that improve grid stability, energy efficiency, and support the transition to clean energy. By integrating renewable energy, intelligent automation, and advanced power management, Electrification X is driving a sustainable, resilient energy ecosystem for industries and communities worldwide.

Gridscale X

Siemens is also introducing Gridscale X, a new era in grid management. This solution enables grid operators to manage grids with increased flexibility and foresight, transforming unpredictability into reliability. Gridscale X supports the digital transformation of grid operations, allowing operators to plan, operate, and maintain grids more efficiently and reliably.

Blue GIS

Siemens' Blue GIS, part of its blue portfolio, represents the company's commitment to creating smarter, greener energy solutions. Equipped with clean air and Siemens' proven vacuum technology, Blue GIS ensures maintenance-free, cost-efficient operation while meeting customer expectations for safety and adaptability. With its sustainable design, Blue GIS is a key step toward creating future-ready energy infrastructure.



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Stucke Group to Display Protection Devices

These devices can be used for low, medium and high voltage systems, for gas and diesel engines, gensets and power units.

The Hamburg (Germany) based Stucke Elektronik GmbH (Stucke Group) will present its multifunctional control and protection devices for engine control as well as generator, motor, transformer, feeder, distance and line differential protection and arc protection systems at Elecrama 2025. These devices can be used for low, medium and high voltage systems, for gas and diesel engines, gensets and power units. Stucke Elektronik also offers comprehensive after-sales-service including repair and spare parts.

Stucke Group offers products and solutions for reliable availability of energy (on land and on water) and secure energy supply through control and protection of energy supply systems. Stucke's multifunctional protective relays in the form of control and protection devices offer motor control, generator protection, motor protection, transformer protection, feeder protection, distance protection, line differential protection, network protection, DC protection, power management, DP systems, arc protection, reactive power undervoltage protection, network decoupling and dynamic grid control for low, medium and high voltage systems, for gas and diesel engines and units. It offer solutions for retrofitting as well as for hybrid applications and battery storage systems.

Some of the products offered by Stucke Group are:

- **SYMAP:** It is a flexible digital protection and control device for low, medium and high voltage power systems. It has three micro-processors, integrated protection functions and HMI interface. This cost-friendly solution for all switchgears, offers comprehensive protection and control functions for generators, transformers, motors, feeders, etc. It has type approvals from common ship classification societies as well as cyber-security and power management.
- **SYMAP Compact+:** It is a digital protection and control device for use in low and medium voltage systems, equipped with three powerful processors and comprehensive protection functions for generators, motors (synchronous and asynchronous), transformers, power lines and distributions. The protective functions can be activated and used at the same time without
- restrictions. To ensure maximum flexibility during commissioning and use, both digital and analog outputs can be connected to the main control panel via the SYMAP Compact+ control. It is also possible for SYMAP Compact+ and the station control technology to communicate with each other via a variety of serial interfaces and different data protocols. The device's wide range of programming options with a user-friendly operating software allows for extensive and cost-efficient application options.
- **SYMAP R (Retrofit):** It is a digital protection system for medium and high voltage switchboards on vessels. It was specially developed as an efficient plug-in retrofit solution for the protection devices such as HIMAP FI (feeder protection), HIMAP MI (motor protection), HIMAP 87M (motor differential current detection), and HIMAP TI (transformer differential current detection).
- **SYMAP ARC:** It is a protection system that detects an electric arc caused by a short circuit through an optical sensor and the load current input on the system to ensure the fast clearance of arc faults on an electrical system with short tripping time (< 2ms).



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Wirepas to Showcase Advanced Smart Meters

Wirepas is also set to showcase its pioneering Wirepas 5G Mesh, the world's first non-cellular 5G connectivity network designed for enterprise IoT.



Operating across nine states, Wirepas has become the preferred choice for AMI providers looking to optimise network reliability while reducing costs.

With over a decade of experience in smart energy applications, Wirepas specialises in software IP licensing for radio communications and protocols. The company collaborates with India's top smart metering solution providers to build highly efficient AMI networks, driving innovation and sustainability in the power sector.

Introducing Wirepas 5G mesh

Wirepas is also set to showcase its pioneering Wirepas 5G Mesh, the world's first non-cellular 5G connectivity network designed for enterprise IoT. Built on the global NR+ standard, this technology enables massive machine-type

Wirepas, a leader in smart meter connectivity solutions, is set to showcase its ground-breaking advancements at ELECRAMA 2025, taking place from February 22 to 26 in Greater Noida, India. As utilities and Advanced Metering Infrastructure (AMI) service providers across India increasingly adopt Wirepas for reliable smart meter connectivity, the company has emerged as the most widely used solution in the country, with nearly 4.5 million connected smart electricity meters.

Transforming smart meter connectivity in India

Indian utilities face several challenges in smart metering, including high infrastructure costs, skilled workforce shortages, and integration complexities. Wirepas addresses these issues with its award-winning RF mesh technology, ensuring seamless communication, cost efficiency, and compliance with the Revamped Distribution Sector Scheme (RDSS) standards.

communications without the need for subscription fees. Operating on a dedicated global spectrum at 1.9 GHz, Wirepas 5G Mesh ensures reliable, cost-effective connectivity, even in the most demanding environments—something traditional cellular networks cannot achieve.

Visitors can meet Wirepas' team of experts at booth H7-B11 to explore the latest innovations in smart metering and IoT connectivity. **Ashish Sahay, Sales Director & Country Manager, India, Jani Vehkalahti, SVP of Smart Grids, and Maruthi Mallepalli, Regional Head, Africa & Middle East,** will be available to discuss how Wirepas solutions are transforming the Indian smart metering landscape.

With ELECRAMA serving as the premier platform for India's electrical industry ecosystem, Wirepas is set to reinforce its role as a key enabler of scalable, cost-effective, and future-ready smart grid solutions.



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CECO Electric: Pioneering Energy-Saving Technologies

The Kolkata-based CECO Electronics, one of the leading players in the industrial electrical and automation space, is exploring new opportunities in solar pump systems and robotic controls for industrial use, as part of its growth strategy.



DMPi Series intelligent digital motor protection relays

CECO Electric Company, a leading player in the industrial electrical and automation space, is set to introduce new electrical and electronics technologies aimed at helping Indian manufacturers save energy. The company is an authorised sales and service partner in India for globally renowned firms such as LS Electric (switchgear and control gear products), Fuji Electric (low-voltage AC drives), CHINT (low-voltage products including manual motor starters, air circuit breakers, contactors, MCCBs, relays, soft starters, and inverters), Shenzhen Sine Electric Co Ltd (AC drives), and Quanzhou Sangchuan Electric Equipment Co Ltd (drives). CECO Electric Co. supplies high-quality products from these global leaders to the Indian market.



A legacy of innovation since 1973

Established in 1973 in Kolkata by D K Dugar, CECO Electric Co (the predecessor of CECO Electronics Pvt Ltd) was founded with the mission to introduce cutting-edge electrical and electronics technology to benefit the industry. The company has been actively involved in manufacturing, assembling, and trading electrical and

electronic control systems, including microprocessor-based programmable controllers, counters, power distribution solutions, and motor controls.

Initially, CECO focused on serving textile industries in Eastern India before expanding its reach across the country. Its systems have significantly enhanced energy savings and machine productivity in the textile sector. The company's reputation has extended beyond India, with its products being exported regularly to Bangladesh, Indonesia, and Thailand.

Excellence in manufacturing and customer service

CECO specialises in CNC-fabricated panels using CRCA/stainless steel sheets with powder-coated paints. The company ensures the highest quality by incorporating world-class imported components. With an extensive service network across India, CECO is known for its prompt response and efficient deliveries. The company boasts a vast industrial clientele of over 5,000 customers across diverse industries in India and select Asian markets.



The company's systems have significantly enhanced energy savings and machine productivity in the textile sector. CECO's reputation has extended beyond India, with its products being exported regularly to Bangladesh, Indonesia, and Thailand.

Bringing global technologies to India

CECO's commitment to delivering world-class solutions has led to strategic alliances with international firms:



CECO is in active discussions with various international organisations to develop these technologies. Additionally, the company plans to expand its factory space in Kolkata from 30,000 sq ft to 100,000 sq ft.

- **2004:** CECO partnered with LS Industrial Systems Co Ltd (formerly LG Industrial Systems Co Ltd) of South Korea to introduce automation, LV/MV control gear, and switchgear products in India. This collaboration aimed at making advanced technology and energy-efficient solutions accessible to Indian industries. CECO successfully implemented automation and energy-saving solutions in industries such as textiles, bottling plants, power plants, and oil refineries. A notable project was the installation of energy-saving systems at Hindustan Petroleum Corporation Ltd (HPCL) tanker filling stations nationwide.

- **2011:** CECO joined hands with Shenzhen Sine Electric Co Ltd (SINEE) to bring specialized AC drives to India. These drives, catering to various applications, operate with both single-phase and three-phase inputs.
- **2017:** The company collaborated with Quanzhou Sangchuan Electric Equipment Co Ltd (SANCH) to supply drives for applications in fan/pump systems, textile machinery, conveyor systems, food processing machinery, cranes, and elevators.

Future focus: Solar and robotics

As part of its growth strategy, CECO Electronics is exploring new opportunities in solar pump systems and robotic controls for industrial use. "We are in active discussions with various international organisations to develop these technologies. Additionally, we plan to expand our factory space in Kolkata from 30,000 sq ft to 100,000 sq ft in alignment with the government's 'Make in India' initiative," a company official stated.

With its deep-rooted expertise, global collaborations, and a vision for innovation, CECO Electric Company continues to play a crucial role in advancing industrial automation and energy-saving solutions in India and beyond.



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News Snippet

Safcon Seals wins awards for excellence in security solutions

Safcon Seals Pvt Ltd, a leading and pioneer manufacturer of tamper evident security seals, has been awarded the titles of 'Most Reliable Security Seal for Utilities' and 'Best Security Seal for the Transport & Cargo Industry'. These accolades underscore the company's unwavering commitment to delivering top-notch security solutions and its expertise in the fields of utilities and cargo logistics.

"We are thrilled to announce that Safcon Seals has been recognised as the Most Reliable Security Seal for Utilities and the Best Security Seal for the transport & cargo industry. These prestigious awards are a testament to our unwavering commitment to provide top-notch security solutions. We extend our heartfelt gratitude to our dedicated team, loyal customers, and supportive partners who have played a crucial role in our success. Let's continue to innovate and secure the future together," said Rajesh Banka,



Rajesh Banka,
MD, Safcon Seals Pvt Ltd

Managing Director, Safcon Seals Pvt Ltd.

Safcon's products are trusted by clients across various sectors, including utilities and cargo logistics, for their durability, robust security, tamper-evidence and ease of use. Safcon offers a wide range of products designed to meet the diverse needs of its customers and serve worldwide. Its commitment to excellence has earned Safcon a reputation as a trusted partner in the security seal industry. These awards

reflect its dedication to innovation, customer satisfaction, and industry leadership.

Safcon remains committed to delivering exceptional products that safeguard its customers' revenue.

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For more details, contact Safcon Seals, Kolkata, on email: sales@safcon.co.in or visit www.safcon.co.in



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IFCCI to Unveil French Energy Solutions in India

The French Pavilion at ELECRAMA 2025 aims to showcase the excellence and diversity of French products, technologies, and expertise, highlighting France's prominent position in the global electrical industry.

The Indo-French Chamber of Commerce and Industry is organising the French Pavilion at ELECRAMA 2025, taking place from February 22 to 26, 2025. This event is the world's largest electrical exhibition and plays a pivotal role in fostering Indo-French business relations, particularly in the energy and electricity sectors. The French Pavilion at ELECRAMA 2025 aims to showcase the excellence and diversity of French products, technologies, and expertise. It offers a valuable opportunity for French companies seeking to enter the Indian market, French subsidiaries already established in



India, and Indian importers and distributors of French brands to network and explore potential business collaborations.

The pavilion will also feature visits by French delegations and VIPs, enhancing the potential for valuable business

discussions and partnerships.

As ELECRAMA remains one of the most sought-after exhibitions for the sector, all companies are encouraged to visit.



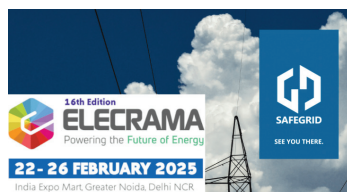
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Safegrid to Display Latest Tech at ELECRAMA 2025

The company will be exhibiting alongside its local distributor, **Elektrolites Ltd.**

Safegrid is excited to participate in ELECRAMA 2025. This premier event will showcase the latest innovations and developments in the industry, providing an excellent opportunity to connect with utilities companies, professionals, and decision-makers from across India and South Asia. The event promises a wealth of insightful presentations, and Safegrid is eager to engage with industry leaders and learn about emerging trends.

They will be exhibiting alongside their local distributor, Elektrolites Ltd, and one can schedule a meeting in advance to explore the capabilities of Safegrid Intelligent Grid System®. The team is excited to share how our cutting-edge solutions can optimise grid performance and enhance operational efficiency.



faults within +/- 100-meter accuracy on a map in just a few seconds.

- **Predictive fault monitoring:** Predict faults using heat maps generated by continuous partial discharge monitoring.
- **Grid performance enhancement:** Improve grid performance with instant-on wireless sensors and cloud-based monitoring.
- **Quick and easy installation:** Get started quickly with a simple and fast installation process.

Rajiv Oberoi, Sales Director and Klaus Ola, VP- Sales for EMEA & APAC, will be present to answer any questions and demonstrate the solutions.



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Why visit Safegrid?

- **Fault location accuracy:** Locate

Budget 2025 Charges the Way

The budget emphasises clean technology production, focusing on solar PV cells, EV batteries, motors, electrolyzers, wind turbines, and transmission equipment.



The Union Budget 2025-26 presents a range of measures aimed at enhancing India's power and renewable energy landscape. These include sector reforms, nuclear energy development, clean technology manufacturing, tariff reductions, and substantial budgetary increases for relevant ministries.

Power sector reforms

The government will incentivise electricity distribution reforms, support intra-state transmission expansion, and offer states an additional 0.5 per cent of their GSDP in borrowing, contingent on implementing these reforms. The Revamped Distribution Sector Scheme, with an allocation of ₹3037.58 billion, targets reducing AT&C losses to 12-15 per cent and eliminating the ACS-ARR gap by 2024-25. Performance-based funding, prepaid smart meters, and special provisions for agricultural electricity supply under the PM-KUSUM

scheme will further enhance operational stability.

Nuclear energy development

India aims for 100 GW of nuclear power capacity by 2047. To achieve this, the government will amend the Atomic Energy Act and the Civil Liability for Nuclear Damage Act to allow private sector participation. A Nuclear Energy Mission with ₹200 billion allocated will support the development of small modular reactors (SMRs), with at least five SMRs expected to be operational by 2033.

Renewable energy & clean tech manufacturing

The budget emphasises clean technology production, focusing on solar PV cells, EV batteries, motors, electrolyzers, wind turbines, and transmission equipment. Full exemptions on customs duty for 25

critical minerals, including cobalt and lithium-ion battery scrap, will support domestic manufacturing.

Lithium-ion battery production

The government is expanding the list of capital goods eligible for customs exemptions, including 35 items for EV battery manufacturing and 28 for mobile battery production. This will strengthen the clean energy and electric mobility sectors.

Tariff reductions

To promote affordability in the clean energy space, customs duties on solar cells have been reduced from 25 per cent to 20 per cent, and duties on smart meters have been similarly lowered, enhancing competitiveness and supporting widespread adoption.

Budgetary allocations

For 2025-26, the Ministry of Power has received ₹218.47 billion (up from ₹205.02 billion in 2024-25), while the Ministry of New and Renewable Energy has seen an increase to ₹265.49 billion (from ₹191 billion). These enhanced allocations signal a continued focus on energy transition and sustainability.

Industry leaders' reactions

According to **Vinay Thadani, Director & CEO GREW Solar**, the budget for 2025-2026 presented by the Finance Minister is a testament to the Government's commitment to move towards renewable energy for Viksit Bharat by 2047.

"The idea of a new manufacturing mission under the 'Make in India' initiative will support small, medium, and large industries through comprehensive policy backing and a detailed framework. The mission aims to create an ecosystem for solar PV cells, electrolyzers, and grid-scale batteries. This will help expedite the development of the renewable energy sector, which will help in employment generation, reduce the cost of the panels, and focus on research and development", he said.

Thadani added, "We are also extremely grateful to FM for simplifying income tax and putting additional money in the hands of the middle class. This will boost the consumption and wheels of the economy."

Girish Tanti, Vice Chairman, Suzlon, said, "The Government budget seems to be a significant step towards achieving India's ambitious energy goals. By strengthening Aatmanirbhar Bharat across manufacturing and agriculture, with a focus on clean tech, wind, solar, EV, and battery storage, the budget aims to accelerate self-reliance in wind and solar manufacturing. The National Manufacturing Mission's targeted support for all renewable energy sources is a welcome move, as it reinforces India's commitment to a level playing field and ambitious energy goals. The

expected outcomes are promising: surpassing the 500 GW target and creating nearly 3 million green jobs. Additionally, incentives for electricity distribution reforms and intra-state transmission upgrades will likely improve the financial health of power companies and enable better grid integration of renewables. This comprehensive approach should have a positive impact on India's economy and population."

Tanti further mentioned, "The key word is Eco-System: the nation cannot rely on just individual solutions to achieve its green transition at lowest cost to customers. It requires a judicious mix of wind, solar, batteries and other non-fossil technologies, together with distribution reforms. And for national security, we need to build this expertise locally, requiring the build-out of all these industries at scale. We are happy that this budget recognises this need. Suzlon is keen to work with the government and together with our fellow industrial groups to realise this vision."

Jitendra Mamtora, Managing Director, Transformers & Rectifiers India Limited, commented, "Budget is in line with the governments' aspirations towards the developed India by 2047, capex provision of 11.2 trillion for next year is in positive direction, it could have been increase but this is also a significant capex for the country. Reform Initiatives by the government in the Power Sector, 100 GW initiatives for nuclear power, infra and other sector reforms are very good for the capital goods sector. Governance initiatives in this budget are very critical for the economy and road towards developed India. Increase of personal tax limits to ₹1.2 million covers almost 85 per cent tax payers of the country which will lead to overall growth. Overall, this is a good budget for future directions and growth oriented."

Sachin Kotak, Partner, Bain & Company, remarked, "Budget focuses on continuing and amplifying the impact of its earlier energy sector initiatives from the last interim budget. It anchors energy sector provisions around boosting manufacturing, furthering make in India and driving power sector reforms. The budget has focused on 3 key interventions. One, it promotes manufacturing of renewable energy components especially lithium-ion batteries in India through (a) extending critical minerals list for BCD waiver (b) extending list of exempted capital goods and (c) strengthening the policy support under National Manufacturing Mission. Two, the budget aims to boost Nuclear Energy India by (a) targeting to build 100 GW of nuclear energy by 2047 (b) allocating ₹200 billion for building 5 SMRs by 2033 (c) proposing to amend Atomic Energy Act and Civil Liability for Nuclear Energy Act to promote private participation."

Kotak also stated, "Lastly, the budget aims to improve the health of the state discoms and thereby

overall power sector in the country by incentivising states with an additional 0.5 per cent of GSDP borrowing allowance linked to undertaking distribution and interstate transmission reforms. Overall, the budget has taken a very action oriented, pragmatic and measurable impact lens to energy sector reforms, which is very welcoming. It will definitely continue to boost the domestic manufacturing push for all renewable energy components that government has been systematically driving over last few years and also set-up a platform for the Electricity Amendment Bill that has been under discussion for some time.”

“

The Nuclear Energy Mission, targeting 100 GW by 2047, is a game-changer, as nuclear can provide round-the-clock clean power.

”

Heena Khushalani, Partner - Climate Change and Sustainability Services, EY India, said, “The 2025 budget announcement is certainly aimed at integrating the government’s green agenda alongside India’s robust growth. The clear focus to support cleantech manufacturing incl. support to lithium-ion batteries is a welcome move to reduce our dependency on exports. The National Nuclear Mission outlay of 200 billion, alongside private sector participation will certainly bolster India’s energy transition. The budget also has a good focus on boosting climate resilience and agricultural productivity, fisheries and these are all measures required to support the sustainable growth of rural India. While the budget does show the government’s commitment towards sustainable growth, an enhanced focus on adaptation financing and climate finance taxonomy is required/have been amiss to boost sustainable finance would be necessary.”

Raju Kumar, Partner and Energy Tax Leader, EY India, stated, “The budget reinforces India’s energy transition by prioritising domestic clean-tech manufacturing, power sector reforms, and electric mobility. The National Manufacturing Mission for clean tech is a crucial step in reducing import dependence for solar PV cells, wind turbines, and battery storage, supporting India’s goal of energy self-sufficiency. Lower customs duties on solar modules, lithium-ion battery

waste, and critical minerals will enhance cost competitiveness and encourage local manufacturing. The Nuclear Energy Mission, targeting 100 GW by 2047, is a game-changer, as nuclear can provide round-the-clock clean power. However, the success of private sector participation, facilitated by proposed amendments to the Atomic Energy Act, will depend on clear regulatory frameworks and risk-sharing mechanisms. The investment in Small Modular Reactors (SMRs) with an outlay of ₹200 billion is a forward-looking step, with the potential to enhance energy security.”

Kumar also mentioned, “For the power sector, linking borrowings to state GSDP is a strategic move with plans to incentivise electricity distribution reforms and augmentation of intra-state transmission capacity by states. The budget also supports EV adoption, with duty exemptions on EV battery manufacturing equipment and reductions in import duties on EV components and commercial transport vehicles, which will accelerate the shift to sustainable mobility. The energy sector now has clear policy direction powered by fiscal incentives; execution and private sector participation will define its success.”

Jayadev Galla, CMD, Amara Raja Energy & Mobility Limited (ARE&M), noted, “The government’s emphasis on clean-tech manufacturing—including solar PV cells, electric vehicle (EV) batteries, and wind turbines—underscores its unwavering commitment to the ‘Make in India’ vision. While the National Manufacturing Mission represents a crucial step in strengthening domestic manufacturing capabilities, targeted incentives for lithium-ion battery production, along with R&D support for emerging sectors in the energy transition—such as electronics and EV components for solar energy—will help India accelerate its efforts toward realising the ‘Make in India’ initiative. Investment in skill development and education is key to equipping India’s youth with the essential capabilities to thrive in an increasingly technology-driven world. The government’s focus on healthcare, particularly initiatives aimed at improving nutritional support and expanding medical education, will play a vital role in enhancing the nation’s overall well-being. Additionally, the establishment of daycare cancer centres and the provision of social security for gig workers highlight the government’s dedication to ensuring that all citizens have access to quality healthcare and robust social protection.”

Galla further stated, “While the budget aligns with the Economic Survey and industry representations, covering several macro-level announcements—such as the new income tax structure, easing of TDS and TCS processes, the Nuclear Energy Mission targeting 100 GW by 2047, and the proposed ₹1.5 trillion allocation for 50-year interest-free loans to states for capital

expenditure and incentives for reforms—there remains a lack of clarity regarding the new labour codes and the ₹1 trillion corpus announced in the previous budget to support financing research in technology. Overall, it was a well-balanced budget aimed at accelerating growth while supporting the middle class and vulnerable sections of society.”

Somesh Kumar, Partner & Leader - Power & Utilities, EY India, said, “The Union Budget 2025 lays a strong foundation for India’s power sector, driving domestic manufacturing, energy security, and financial reforms. The new Make in India manufacturing mission will strengthen the domestic value chain for solar PV, EV batteries, electrolysis, wind turbines, and high-voltage transmission equipment, reducing import dependence and enhancing global competitiveness. Power sector reforms will incentivise electricity distribution improvements and intrastate transmission capacity augmentation, improving the financial health of DISCOMs. States implementing these reforms will benefit from an additional 0.5 per cent of GSDP borrowing capacity, ensuring better infrastructure and efficiency.”

“

The inclusion of 35 additional capital goods for EV battery manufacturing is a significant boost to domestic lithium-ion battery production, a critical component for the EV sector.

”

Kumar also remarked, “The 100GW Nuclear Energy Mission by 2047 is a landmark initiative, fostering private sector participation and R&D in modular reactors to deploy 20 modular nuclear plants by 2033. Amendments to the Atomic Energy Act and a ₹200 billion investment will drive its execution. Additionally, custom duty exemptions on critical minerals like cobalt, lithium-ion battery waste, lead, zinc, and 12 more minerals, along with 35 new capital goods for EV battery manufacturing and 29 additional goods for mobile phone battery production, will boost domestic manufacturing and investment in energy storage solutions.”

Raman Bhatia, Managing Director, Servotech Renewable Power System Ltd, commented, “I wholeheartedly welcome the forward-thinking Budget 2025 presented by Finance Minister Nirmala Sitharaman.

The focus on incentivising electricity distribution reforms and augmenting transmission capacity is a crucial step towards strengthening the power sector, which is fundamental for the growth of renewables and EVs. The practical approach of allowing additional borrowing for states contingent on these reforms is commendable. The inclusion of 35 additional capital goods for EV battery manufacturing is a significant boost to domestic lithium-ion battery production, a critical component for the EV sector. The proposed National Manufacturing Mission, with its focus on ‘Make in India’ and clean tech manufacturing, including solar PV cells, EV batteries, and other key components, signals a strong commitment to sustainable industrial development. I particularly appreciate the emphasis on improving domestic value addition and building our ecosystem for these crucial technologies.

Bhatia further stated, “The substantial allocation for private sector-driven R&D and innovation is another welcome move that will further accelerate progress. Overall, these budget announcements create a favourable environment for businesses like ours, operating in the renewable energy, EV, and manufacturing sectors, and will contribute significantly to India’s clean energy transition and economic growth. I thank Finance Minister Nirmala Sitharaman for her vision and commitment to these critical sectors.”

Niranjan Nayak, MD, Delta Electronics India, remarked, “The Union Budget 2025-26 lays down a strong foundation for India to transition towards becoming a sustainable, technology-driven, and self-reliant economy. The emphasis of the government on green energy, EV infrastructure, AI-led innovation, and digital transformation closely resonates with Delta’s aim to deliver energy-efficient, smart solutions that power the future. This would place India on further accelerated net-zero emission paths and spur technological leadership for the country simultaneously. Higher penetration of clean mobility will be facilitated through investments in modernising smart grids and EV charging infrastructure.”

Nayak added, “Delta is placed to help since it leads the market for an EV charging and power solution. The PLI incentives for R&D and manufacturing under the scheme will further cement India’s position as a world manufacturing hub. Delta continues to utilise its prowess in industrial automation, power electronics, and smart infrastructure for contribution to the development of India. We are hopeful that industry stakeholders and policymakers with these budgetary allocations will take on a shape where vision is turned into an actual path leading to a sustainable, digitally empowered, and future-ready India.”

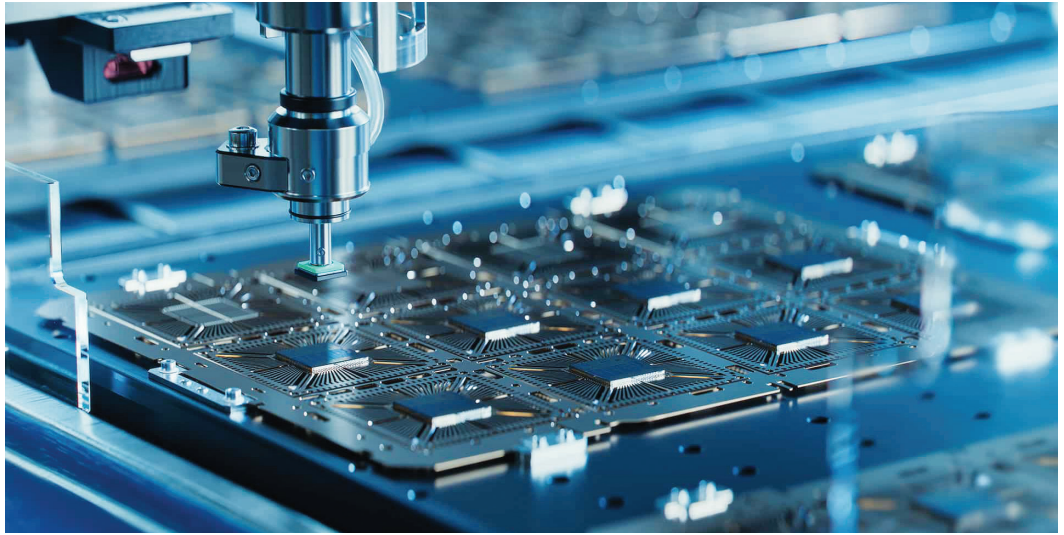


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Enhancing Semiconductor Manufacturing with Lasers

Photonic crystal lasers, which are widely used in microfabrication and nanofabrication nowadays, are ideal for modern production applications because of their powerful, precise beams, says **Emily Newton**.

Photonic crystal lasers have the potential to increase output and reduce material waste, which could shorten cycle times and lower expenses. Since they have existed for some time, it has undergone significant changes. Late adopters benefit from a technology that is more compatible and cost-effective than ever before. What else do they stand to gain?



Photonic crystals in semiconductor manufacturing

A photonic crystal is an artificial optical nanostructure. Its lattice is sculpted out of structures like columns, holes and cubes arranged to generate periodic variations in the refractive index. In other words, at specific wavelengths, light refracts and partially reflects. The overlap creates a standing wave that does not travel through the crystal.

Ordinarily, materials either conduct or absorb light. However, by creating a small object only suitable for the wavelength of light, unique optical properties are achievable — the artificial structure becomes an insulator that does not allow light to pass through. This enables control of the propagation and behavior of photons, making it possible to confine light to a narrow area.

Photonic crystal lasers have been extensively refined over the years. Initially, producing and utilising them in manufacturing was far too expensive. Today, they are widely used in microfabrication and nanofabrication — their powerful, precise beams make them ideal for modern production applications.

How photonic crystal lasers enhance manufacturing

With conventional lasers, expanding the emission area's size makes oscillating lights imprecise. A divergent or patchy beam becomes less likely, dimming the laser. One research team's solution was to create a double lattice. Their invention — the photonic-crystal surface-emitting laser (PCSEL) — consists of an active layer and semiconductor sheet sandwiched between cladding layers.

They stamped the PCSEL's semiconductor sheet with a two-dimensional array of nanoscale holes, enabling them to carefully control light propagation. The result is a more powerful beam. Conventional semiconductor lasers get no brighter than 100 megawatts per square centimeter per steradian. Comparatively, their creation was 100 times brighter because it had a round emission area of one millimeter in diameter and diverged just one-tenth of a degree.

With greater precision comes fewer defects. A higher yield is ideal since relatively recent supply chain disruptions have caused acute semiconductor shortages worldwide. This scarcity cost the US approximately \$240 billion in 2021 alone after creating downstream delays in

multiple industries.

Even though supply chains have largely recovered from the initial shortage, heightened demand for semiconductor devices quickly outpaces the existing supply network's capabilities. Since the US possesses just 12 per cent of global manufacturing capacity for semiconductors, domestic manufacturers need a solution like photonic crystal lasers to safeguard against scarcity.

Ways Modern Manufacturers Use Photonic Crystals

Crystal laser cutting technology is versatile. It has several applications in manufacturing and fabrication, enabling efficiency gains for various segments of the production line. This way, business leaders can strategically invest to address pain points.

Welding: Photonic crystal lasers can melt the surface of adjoining semiconductor components like wafers and plates to join them. The beam is narrow, enabling highly precise welding. Also, its intensity makes it a useful deburring tool.

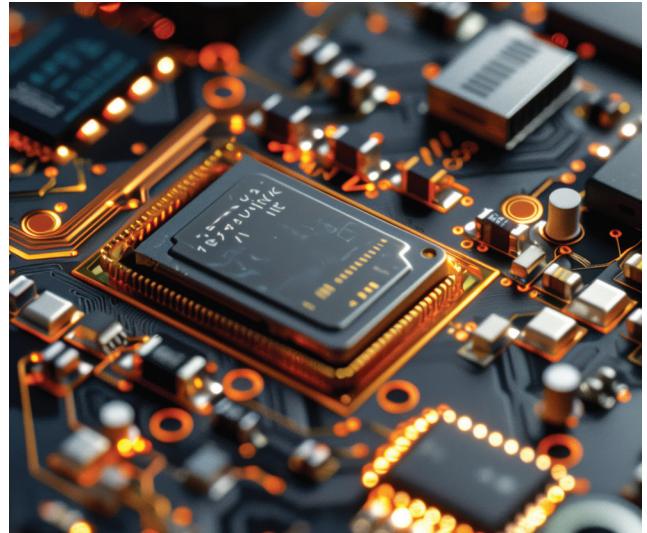
Production: Intriguingly, technological progression in semiconductor devices has driven advancements in photonic crystal technology. Industry professionals who pay attention to these developments may uncover applications for emerging semiconductor manufacturing applications where controlling light at a small scale is crucial. One such application is producing semiconductor photonic integrated circuits — where multiple photonic functions are incorporated into a single chip. Emerging technologies like quantum computing and remote sensing devices will rely on it. Since production is compatible with existing semiconductor manufacturing processes, cost-effective scaling is possible.

Cutting: Semiconductor manufacturers choose photonic crystals over optical fiber or gas cutting heads when they need to cut hard reflective metals. Nd:YAG lasers are great for fine details or engraving, while Nd:YVO provide more accurate and efficient cutting. The thin, powerful beam also reduces material loss and tool wear, increasing the statistical yield limit. With this technology, facilities can realize unprecedented precision.

Marking: With photonic crystal lasers, engraving microcomponents is simple. The laser can create permanent, identifiable markings that are shallow enough to avoid damaging the nanostructured components. Since the beam is so narrow, it can easily produce incredibly fine print.

Emerging advancements in photonic crystal lasers

Following Moore's Law, the transistor count will



double every two years. Due to the necessity of miniaturisation, transistor size is exponentially decreasing. It went from 12,000 nanometers wide to two nanometers wide — thinner than the width of a single strand of human DNA — in a matter of decades. Such complexity requires an equally sophisticated manufacturing process.

One such process is lattice manipulation. Researchers recently uncovered how the light within photonic crystals behaves when under the influence of pseudo-gravity. To begin, they designed a silicon crystal with a distorted lattice. They hit it with terahertz waves, which can be deflected by gravitational fields. It deflected the waves, revealing that pseudo-gravity brought on by lattice distortion follows the rules of general relativity.

By gradually distorting the crystal's evenly-spaced, grid-like lattice structure, the researchers could strategically bend light. This research opens up new possibilities for physics, which has wide-ranging implications for micrometer-scale fabrication. It could help propel miniaturization-driven semiconductor manufacturing.

Looking to the future of photonic crystal technology

For photonic crystal lasers to continue advancing, industry leaders must address fabrication bottlenecks like low throughput and expensive production. Making this technology more accessible and affordable is vital to increasing its adoption rate, further driving research and development.

SME

About the author:

Emily Newton is a tech and industrial journalist and the Editor-in-Chief of Revolutionized magazine.



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Gautam Solar's new Bhiwani plant to achieve 5 GW by year-end



In a record time of just one year, Gautam Solar successfully established its new solar module manufacturing plant in Bhiwani, Haryana—from land acquisition to full-scale operations. This state-of-the-art facility spans over 60 acres, marking a major milestone in the company's growth and manufacturing capabilities. Equipped with a fully automated setup and highly advanced machines, this one of the biggest module manufacturing plants in the region has recently helped Gautam Solar surpass 2 GW capacity. Two advanced high-speed production lines are currently being installed, which will significantly enhance manufacturing efficiency and scale up the total production capacity to 3.2 GWp by March 2025. These high-speed production lines are sourced from Tier-1 machine suppliers, and feature the latest technology, making the company one of the earliest adopters of these cutting-edge advancements.

Gautam Solar, one of the fastest-growing organisations in the country's renewable energy sector, will achieve a total solar module manufacturing capacity of 5 GW by 2025, reinforcing India's position as a self-reliant hub for renewable energy. The company's rapid expansion aligns with the Government of India's ambitious goal of achieving 500 GW renewable energy capacity by 2030.

With over 27+ years of industry expertise, a strong financial foundation, and a deep understanding of solar lifecycle and warranty requirements, Gautam Solar stands out as a trusted leader, ensuring long-term reliability with a dedicated warranty fund. The company operates multiple factories with integrated manufacturing capabilities and is now expanding into solar cell production to address critical supply chain gaps. The company is also setting up a solar cell manufacturing facility to strengthen India's renewable energy supply chain and reduce import dependency.

Gautam Mohanka, CEO, Gautam Solar, said, "By scaling its solar module manufacturing capacity to 5 GW,

Gautam Solar is poised to play a crucial role in meeting the growing demand for high-quality solar modules, driven by the government's annual tenders of 50 GW. The company remains steadfast in its mission to accelerate India's clean energy transition and establish itself as a global leader in solar manufacturing."



TPREL and BoB sign MOU to ease financing under PM Surya Ghar Yojana

Tata Power Renewable Energy Limited (TPREL), a subsidiary of The Tata Power Company Limited and a leader in India's renewable energy sector, and Bank of Baroda, one of India's leading public sector banks have signed a Memorandum of Understanding (MoU) for financing of residential rooftop solar power systems. The MoU will facilitate financing options for residential customers under the Pradhan Mantri Surya Ghar Yojana (PMSGY). The collaboration will leverage on the wide branch network and financing capabilities of Bank of Baroda and the market leadership and dealer network of Tata Power Renewable Energy, enabling seamless sourcing and loan processing for customers. This strategic partnership is set to boost the adoption of rooftop solar systems across the country by providing affordable and accessible financing, thereby supporting India's transition to renewable energy.

By providing access to affordable, hassle-free financing options, Bank of Baroda and Tata Power Renewable Energy will enable Indian households to adopt sustainable energy solutions and contribute to a cleaner, greener future. Under the MoU, applicants can avail loan amounts up to ₹600,000 at an attractive interest rate starting at 7 per cent p.a., with both fixed and floating rate of interest options available.

Under the PM Surya Ghar Yojana, customers installing residential rooftop solar systems with capacities of up to 3 kW can avail loans up to ₹200,000 with no income documentation required. The scheme requires only a 10 per cent margin contribution and offers an attractive interest rate of 7 per cent p.a. The loans are collateral-free and come with a flexible repayment tenure of up to 10 years, making solar installations affordable for households.

For larger installations ranging from above 3 kW and up to 10 kW, customers can avail loans of up to ₹600,000 under the regular scheme. These loans require a margin money contribution of 20 per cent. Bank of Baroda's Home Loan customers will enjoy special concessional interest rates ranging from 9.15 per cent to 11 per cent p.a. For non-Home Loan customers, interest rates will range from 10.15 per cent to 12 per cent p.a. The loans are collateral-free with a maximum repayment tenure of up to 10 years.

Under the Pradhan Mantri Surya Ghar Yojana, residential consumers installing rooftop solar systems are eligible for government subsidies, significantly reducing the upfront cost of installation. For solar systems up to 2 kW, customers can avail a subsidy covering up to 60 per cent of the benchmark cost, while for systems between 2 kW and 3 kW, the subsidy covers 40 per cent of the benchmark cost. Installations above 3 kW receive a fixed subsidy for the first 3 kW, with additional capacity receiving support as per scheme guidelines. These subsidies, combined with affordable financing options, make rooftop solar more accessible, helping households lower electricity bills while contributing to India's clean energy transition.

Deepesh Nanda, CEO & Managing Director, TPREL said, "This strategic collaboration with Bank of Baroda marks a significant step forward in our mission to make clean energy solutions accessible to every household in India. By offering affordable and convenient financing options, we are enabling residential customers to embrace rooftop solar technology with ease. This initiative not only empowers individuals to reduce their energy costs but also contributes meaningfully to the nation's renewable energy goals and efforts to combat climate change. Together, we are fostering a sustainable future, one home at a time."

Shri Lalit Tyagi, Executive Director, Bank of Baroda said, "India's renewable energy capacity has crossed 200 GW, with solar energy accounting for almost 100 GW. This significant growth is driven by robust policy support, enhanced competitiveness, and rising investor confidence. At Bank of Baroda, we are strongly committed to expand our engagement in the renewable energy sector, in line with the government's vision to maximise power generation through sustainable sources. We are pleased to further strengthen our partnership with Tata Power Renewable, a key leader in India's renewable energy landscape."



Luminous Power unveils Haridwar facility with green positive plate

Luminous Power Technologies, India's leading energy solutions company, has announced a major expansion of its manufacturing capabilities with the setup of a production unit for Lead Acid Batteries in North India. The facility spanning across 8 acres is strategically located at the SIDCUL Industrial Estate in Haridwar, Uttarakhand close to the burgeoning customer base. The plant is set to significantly boost the company's capacity and support the growing demand for power storage solutions across both domestic and export markets. In adherence to the global standards, the factory champions the cause of sustainable production with 3036 solar



panels, 1MW solar power generation, making it the second largest industrial solar rooftop installation in Uttarakhand.

The Haridwar plant's noteworthy features include the first-ever green positive plate manufacturing in the industry with use of 100 percent grey oxide through Wet paste filling

process for Industrial Battery. Additionally, the plant has an acid circulation system and an automatic battery assembly line with 2X speed than conventional assembly lines. This cutting edge technology is water-efficient and delivers high-speed battery charging method. The facility features a smart factory interface with live finished goods stock monitoring, sim area, digital dashboards to show real-time production information, and an innovative learning center called DOJO to enhance learning for all levels of employees.

This expansion is a strategic move for Luminous, further solidifying its position as a leader in the power storage sector. In addition to manufacturing, the Haridwar facility houses a modern, innovative learning centre that will nurture talent and foster technological advancements, positioning the company as an expert in end-to-end energy solutions. The project will generate employment opportunities and contribute to regional economic growth.

Preeti Bajaj, MD & CEO, Luminous Power Technologies said, "As manufacturers, it is essential to adapt to the localised consumer habits and the evolving power needs of urban and rural India. At Luminous, we are committed to making energy affordable, accessible, and available through innovative energy solutions, and modern production strategies. This manufacturing unit in Haridwar represents a significant milestone in this journey, helping us bridge the power supply gap. By incorporating advanced automation, we are improving operational efficiency while also contributing to the local economy through job creation and sustainable practices"

Amlan Kanti Das, Head- Battery Technology, Luminous Power Technologies said, "With this facility in Haridwar, we are leveraging cutting-edge automation to optimise our production processes and deliver

consistently high-quality power storage solutions. This expansion allows us to scale up production to meet the rising demand for energy storage, both domestically and internationally. Our focus remains on innovation, efficiency and ensuring that we continue to provide sustainable and reliable solutions to support India's energy demand."



ABB to present smart solutions at the expo

At ELECRAMA 2025, ABB India will showcase its smart power, smart buildings, distribution solutions



Tmax XT: The next-gen molded case circuit breaker

portfolio with power protection and service business overview featuring a diverse range of solutions, including breakers and enclosures from its smart power lineup, motor starting & safety solutions, switches and fuse gear, energy efficiency devices, RPP panel solutions, DIN rail protection devices, distribution enclosures, modular switches, EV charging solutions, and power protection systems. Also, ABB presents its low voltage switchgear, gas insulated and air insulated switchgear, and digital substation solutions.

ABB is a global technology leader in electrification and automation, driving a sustainable and resource-efficient future. Celebrating 75 years in India, ABB has



PrimeGear ZXO: ABB's ECO-Efficient 11kV Gas Insulated Switchgear

significantly contributed to the nation's industrial and social development through technological innovation and sustainable solutions.

With four customer-focused, globally leading

businesses—Electrification, Motion, Process Automation and Robotics & Discrete Automation—ABB's rich history of technology innovation for over a century has left a significant mark on the industry. ABB helps industries achieve high performance, efficiency, productivity, and sustainability, a concept they call 'Engineered to Outrun'.

ABB's Electrification business offers a wide-ranging portfolio of products that ensure efficient and reliable electricity use from source to socket, helping to electrify the world in a safe, smart, and sustainable manner. Their solutions connect engineering expertise with digital technologies to optimize manufacturing, movement, power, and operations.



Waaree unveils new electrolyser manufacturing facility in Gujarat

Waaree Group, India's largest manufacturer of solar PV modules, unveils new electrolyser manufacturing facility in Valsad, Gujarat. The facility will initially commence operations with a production capacity of 300 MW in Phase I, positioning it as a cornerstone in India's clean energy transition.

As part of its strategic expansion into clean energy technologies, Waaree's Alkaline Electrolyser manufacturing plant aligns with India's National Green Hydrogen Mission. The facility will cater to key industries such as steel, refining, transportation, fertilisers, chemicals, food, and power generation, enabling their transition to decarbonised processes. By localising the production of world-class electrolysers—vital for generating green hydrogen—Waaree aims to reduce India's dependency on imports and strengthen its position as a global hub for green hydrogen and its derivatives, including green ammonia and other e-fuels.

Anuj Sharma, CEO, Waaree Clean Energy Solutions Pvt Ltd, commented, "The ground-breaking ceremony of our Electrolyser Manufacturing Facility is a significant step towards making India self-reliant in green hydrogen production technologies. At Waaree, we are committed to leading the nation's clean energy revolution. Through the development of this advanced facility, we aim to empower industries, create new jobs, and contribute to a sustainable, greener future."

The facility will feature the latest in equipment and manufacturing processes to produce high-efficiency, reliable, and durable electrolysers for large-scale green hydrogen production. Designed for low power consumption and flexible operations, these electrolysers will offer unmatched performance with minimal maintenance. The facility will also include automated assembly lines for electrolyser stacks, ensuring precision and scalability.

RUBBER PRODUCTS FOR ELECTRICAL CONTROL AND SWITCHGEAR PRODUCTS

Moulik Rubber Industries offers high quality rubber products for electrical control and switchgear.

Features:

- Products include Rubber Seal (U & V - Seals), Belt Rings, O-Rings & Flat Rings (gaskets) for effective sealing from dust, water, oil, chemicals & other high/low pressure fluids. Extruded Gaskets, Seals, Cords, Custom made profiles.
- Diaphragm / Bellows for better actuation and Boots (Dust Cover) for dust proofing. All materials are RoHS compliant (Type III) and IP approved with good electrical and tensile properties.

About the Company: Moulik Rubber Industries, established in 1990, are one of the leading manufacturers of High Quality Moulded and Extruded rubber products.

Contact:

Moulik Rubber Industries, Mumbai
Tel: 022-40037863 Mobile: 09820444582
Email: moulikrubber@gmail.com

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VOLATILE ORGANIC COMPOUNDS - VOC DETECTOR, MODEL: OTSM-1

Subtronics proudly presents its state-of-the-art volatile organic compounds - VOC detector, Model: OTSM-1.

Features:

- This fixed diffusion-based VOC detector is designed to detect a range of Volatile Organic Compound gases at parts per million (ppm) levels. Volatile organic compounds are chemicals with high vapor pressure and low water solubility, commonly found in paints, pharmaceuticals, refrigerants, and other industrial products.
- Some well-known VOCs include acetone, benzene, ethylene glycol, formaldehyde, methyl chloride, perchloroethylene, toluene, 1,3-butane, xylene, and more. The OTSM series, also known as the "On The Spot Monitor," utilizes advanced photoionization technology with a 10.6eV lamp. This cutting-edge technology enables the OTSM-1 to detect a wide range of VOC gases, surpassing industry standards with a life span of 5 years. With its IP68 ingress rating and an Ex'd' case, the OTSM-1 is suitable for use in Zone 1 and Zone 2 areas. It carries a Gas Group IIC classification and a T6 temperature class rating. Additionally, the intrinsically safe sensor housing allows for sensor servicing without the need for a hot work permit.
- Equipped with Three Status (Registered Mark) LEDs and a bright digital display, the OTSM-1 ensures easy visibility of its status, even under direct sunlight or from a distance. Five magnetic switches facilitate intuitive setup and adjustments, with the LED keys illuminating to confirm key presses.
- The OTSM-1 models offer multiple output options, including RS485 MODBUS, 4-20mA current loop, and two programmable relays. These versatile options cater to various applications such as manufacturing and processing, refineries and petrochemicals, pharmaceuticals, indoor air quality monitoring, industrial painting and coating, fence line monitoring, tank farms, and bunkering.

About the Company: Subtronics (India) Pvt Ltd is an ISO 9001 certified company with over five decades of experience, serving more than 4,500 clients. Throughout its history, Subtronics has received 34 prestigious awards in recognition of its outstanding contribution to safety.

The OTSM-1 VOC Detector is proudly made in India.

Contact:

Subtronics (India) Pvt Ltd, Mumbai
Tel: 022-24224461, 24303047
Mobile: 09920821346
Email: service@subtronicsindia.com

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KUSAM-MECO -WRIST TYPE HIGH VOLTAGE ALARM - MODEL - KM-HVW-289

Kusam-Meco offers a new wrist Type High Voltage Alarm Detector-Model KM-HVW-289 having a wide sensing range from 1kV-220 kV AC.

Features:

- This detector provides a safe, practical & convenient new type high voltage alarm device for close-electric operator. During live electric working, the safe distance between operator & live body should not be closer than the requirement of relevant working regulations.
- After the operator wearing this alarm, when close to the high voltage charged body for a certain distance, according to the corresponding safe distance of voltage level, the alarm will make out the sound & light alarm to remind the electrical workers to pay attention to safety & avoid high voltage electric shock accidents.

About the Company: Established in 1983, Kusam-Meco, an ISO 9001:2008 certified company, introduced and pioneered the use of digital multimeters and clamp meters in Indian industry.

Contact:

Kusam Electrical Industries Ltd,
Navi Mumbai
Tel: 022-27754546, 27750662, 27750292
Email: sales@kusam-meco.co.in

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SHADED POLE ELECTRIC MOTORS

Delco Fans Pvt Ltd offers Shaded Pole Electric Motors for light duty applications.

Features:

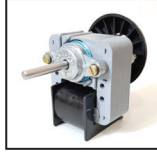
- Designed specifically as per customers' requirements; Available in 2-pole, single phase design; Wide range of motors from 5 Watts to 30 Watts; Temperature rise is limited to 40 D Celcius; Available in 110 V AC and 230 V AC; Ball Bearing type; Shaft available EN8 and SS 304; Shaft diameter 6 mm; Length available from 25 mm to 150 mm; Threading of shaft can be provided; Motor can be mounted Horizontally and Vertically; Motor cooling blade can also be provided.
- Its application areas: Magnetic Stirrer.

About the Company: Delco Fans Pvt Ltd established in 1975. Their manufacturing range consists of FHP Electric Motors, Geared Electric Motors, Centrifugal Blowers, etc.

Contact:

Delco Fans Pvt Ltd, Thane
Mobile: 09769201564
Email: delcofans@gmail.com

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LARGEST WIRING HARNESS, CABLE LOOMS

Miracle Electronic Devices Pvt Ltd offers a wide range of largest wiring harness, cable looms.

Features:

- One of the largest cable harness manufacturers in India, Miracle Electronics specializes in offering premium wire harness solutions for a range of industries, such as industrial, automotive, and aerospace. Being the most reputable looms manufacturer in India, we focus on providing our customers with specialized, dependable, and effective wire harnesses that satisfy their exacting requirements.
- Wire harnesses for aerospace industry: Miracle Electronics, a certified manufacturer with the largest wiring harness manufacturing in India, carefully builds aerospace wire harnesses to endure vibration, mechanical stress, and high temperature fluctuations – all typical issues in the aerospace environment. Their wire harnesses are especially designed to satisfy strict industry requirements, including resistance to environmental factors, durability, and weight efficiency.
- The reliability and effectiveness of wire harnesses are crucial in the extremely specialized field of aircraft engineering. Their wire harnesses offer a more compact, safe, and well-organized way to connect several cables than free wires.
- Being one of the largest cable harness manufacturers in India, we prioritize reducing installation faults by providing chances for process standardization.
- Customized solutions by Miracle Electronics: Miracle Electronics is aware that the requirements of various applications vary. As a result, we offer wiring solutions that are specifically tailored to our clients' needs.
- Their products are made to the highest standards, guaranteeing reliable and durable performance in a range of applications.
- Comprehensive product range: Miracle Electronics offers an extensive range of wire harness solutions, including: Single & Discrete EMI Cables; EMI Shielded Cable Harnesses; Wiring Harness Multiwire; Flat Cable Harness Assembly; Airborne Looms; Ribbon Cable; Harness Assembly; Military Looms Assembly.

About the company: Miracle Electronics is a renowned Transformer manufacturer in India, engaged in manufacturing Power transformers, Toroidal transformers, EI transformers, SMPS transformers, Medical Isolation Transformers.

Contact:

Miracle Electronic Devices Pvt Ltd,
Bangalore Tel: 080-28362750
Email: sales@miracle.net.in

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HIGH SPEED TRIPPING RELAY THREE ELEMENT RELAY-JRV181x3

JVS Electronics Pvt Ltd offers a wide range of high speed tripping relay three element relay-JRV181X3.

Features:

- High speed tripping relays are voltage operated, attracted armature type with 5 contacts per element. Each element is enclosed in a dust proof moulded, transparent, polycarbonate cover.
- Radio metal is used for the magnetic components such as the armature, the core and the yoke of the tripping relay to ensure good electrical performance.
- The contacts are made of phosphor bronze and are nickel plated. The contact tips are made of pure silver. The use of these materials ensures very good contact performance.
- High speed interface between the protection system and the circuit breaker Functions requiring a number of simultaneous switching operations, interlocks in control and closing circuits.

About the Company: JVS Electronics Pvt Ltd is an exporter, manufacturer and supplier of audio indicating instruments, visual indicating instruments, electrical indicating instruments, etc.

Contact:

JVS Electronics Pvt Ltd, Bangalore
Mobile: 09448288863
Email: bangalore@jvselectronics.in

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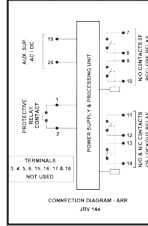


AUTO RECLOSE RELAY-JRV 144

JVS Electronics Pvt Ltd offers a wide range of auto reclose relay-JRV 144.

Features:

- The relay receives the fault initiation from the protection relay and that triggers the auto reclose function. After tripping the circuit breaker (CB), the Auto reclose function can reclose the CB.
- Normally, the first reclose (or shot) is so short in time, that the consumer cannot notice anything. However, the fault will cleared and the feeder will continue in normal service.
- The auto reclose function is normally used in feeder protection relays that are protecting an overhead line. Most of the overhead line faults are temporary in nature. **About the Company:** JVS Electronics Pvt Ltd



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is an exporter, manufacturer and supplier of audio indicating instruments, visual indicating instruments, etc.

Contact:

JVS Electronics Pvt Ltd, Bangalore
Mobile: 09448288863
Email: bangalore@jvselectronics.in

WIRELESS DEVICE SERVER

Sparr Electronics Limited offers a wide range of Wireless Device Server - GSM.

Features:

- The product is available in board level or enclosed in metal box.
- The wireless device server – GSM enables you to connect Serial Devices to remote server over GSM / GPRS network quickly & easily.
- WDS – GSM simplifies GSM / GPRS connectivity to devices in applications where mobility is required or cabling is impractical. Available as a standalone box product for external connectivity.
- Enables any device to send SMS messages without having to learn and implement complicated AT command set. Can also be used as a simple GSM modem.



About the company: Sparr Electronics Ltd, founded in 1991, is a leading manufacturer of data communication peripherals.

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Contact:

Sparr Electronics Ltd, Bangalore
Tel: 080-23602836, 23606308
Email: sales@sparrl.com

THREE PHASE TRANSFORMERS

Miracle Electronic Devices Pvt Ltd offers three phase transformers.

Features:

- Miracle Electronic's Three phase transformers are used across numerous industries increasingly as a preferred to product to effectively change values of three phase voltage and current to desired units.
- This Three-phase (3) transformers are used for efficient and fault free electrical power generation, transmission, and distribution, as well as for all industrial uses.
- Miracle Electronics manufactures Power transformers up to 30 KVA in accordance with International standards and supplies to markets across the globe.
- All their Power Transformers are RoHS Compliant, High, Reach Compliant, CE and UL Marked with request.



About the Company: Miracle Electronics is a renowned Transformer manufacturer in India, engaged in manufacturing Power transformers, Toroidal transformers, EI transformers, SMPS transformers, etc.

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Contact:

Miracle Electronic Devices Pvt Ltd, Bangalore
Tel: 080-28362750
Email: sales@miracle.net.in

MAINTENANCE-FREE IGLIDUR® PLAIN BEARINGS

igus® (India) Pvt Ltd offers a wide range of maintenance-free iglidur® plain bearings.

Features:

- Plain bearings are used to minimise direct contact e.g. between the shaft and the mount to prevent wear. Most bearings must be lubricated regularly to ensure fault-free operation.
- iglidur plain bearings do not require additional lubricants. They are therefore maintenance-free and represent a cost-effective alternative to metal plain bearings.
- The iglidur materials specially developed by igus enable a wide range of applications for our bearings in a wide variety of industries. For example, for use at high temperatures, contact with food or chemicals and under high loads.



About the company: igus is a manufacturer of high-performance polymers for movement based in Cologne, Germany. They have been developing and producing motion plastics – innovative products made of lubrication-free plastics.

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Contact:

igus® (India) Pvt Ltd, Bangalore
Tel: 0808-69116900, 68127801
Email: info-in@igus.net

COMBINATION TIMERS

Electronic Automation Pvt Ltd offers a wide range of combination timers.

Features:

- It is independently programmable - 8 relays, 8 On-Off timings programmable for each relays (overall 64 combination).
- Hold/restart, single/repeat cycle, time inhibit/pause -user selectable.
- Non potential pulse start signal for timer initiation.
- Its application used in: air dryers, nitrogen and other gas plants, process industries and many more.

About the Company: EAPL is one of the earliest establishments in Bangalore to be certified under ISO 9001:2008 by UL (Underwriters Laboratory, USA) and has currently upgraded to ISO 9001:2015. The organization has also adopted the SAP B1 as a part of enterprise resource management and fact-based decision making.

Contact:

Electronic Automation Pvt Ltd, Bangalore
Tel: 080-42802345
Email: info@eaplindiamail.com



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FREQUENCY INVERTOR - SJ200 SERIES

Pro-Med Instruments (P) Ltd offers a wide range of frequency inverter - SJ200 series.

Features:

- The SJ200 is a true muscle-man, featuring enhanced ISPM-technology with vector control. Outstanding performance and design characteristics, such as superior torque for demanding applications and exceptionally compact size, for SJ200 inverter in a class of their own.
- They are suited for various applications in textile, paper and printing industries as well as for all areas of the metalworking industry, cranes and elevators.

About the Company: Pro-Med Instruments (P) Ltd, was incorporated in 1994 by a team of highly skilled professionals having experience for the past 15 years in process control instrumentation field with an objective to cater to the growing need for superior products having latest technology. They deal the products of Shinko, Hitachi, Brain Child, Autonics, Germs Sensors, RKC and Kyowa.

Contact:

Pro-Med Instruments (P) Ltd, Chennai
Tel: 044-42132295, 42142295
Mobile: 09840832296
Email: sales@promedindia.com



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PUSH BUTTON - METAL SERIES

Esbee Electrotech LLP offers a wide range of push button - Metal Series.

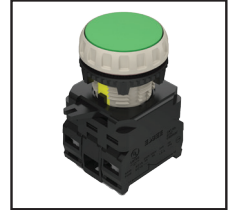
Features:

- One of our notable innovations is the development of Metal Push Buttons. These buttons feature a complete metal body with anticorrosive plating, ensuring durability.
- The metal Push Button series has IP 65 protection. They are compatible with existing contact blocks and are available with various types of actuators. With their aesthetically pleasing design, they stand out in the market. Equipped with the necessary expertise to exceed customer expectations.

About the Company: Esbee Electrotech LLP has established itself as a pioneer in industrial products, switches, and solutions for the white goods industry, as well as safety products for elevators. meeting the diverse needs of our valued customer.

Contact:

Esbee Electrotech LLP, Pune
Mobile: 09823310351
Email: info@esbee-electrotech.com



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ELECTRICAL TAPES

Intek Tapes Pvt Ltd offers a wide range of electrical tapes.

Features:

- FIXON® Electrical Tapes have been developed from carefully selected backings and adhesive systems.
- The adhesive used in the manufacture of the tape have been developed with a special formulation to withstand different classes of temperature from Class A-105°C to Class H-180°C and includes Rubber, Acrylic and Silicon based formulations.

About the company: Intek Tapes Private Limited is a company that is involved in the manufacture of a wide range of pressure sensitive adhesive tapes. Products that are designed to suit an array of specifications in the Leather, Electrical, Electronics, Printing and Packaging Industry. These tapes are marketed under the renowned Fixon® brand name.

Contact:

Intek Tapes Pvt Ltd, Bangalore
Tel: 080-26655691/92/94
Email: sales@intektapes.com



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T90 70R RIDE ON FLOOR SCRUBBER DRYER

Soma Specialities Pvt Ltd offers a wide range of T90 70R ride on floor scrubber dryer.



Features:

- The T90 70R is a battery operated ride-on scrubber dryer used for cleaning large floor spaces as it is very productive due to its ergonomic and easy to use design.
- It can provide productivity of upto 3500 sqm/ hr which is very useful when large areas are to be cleaned in short span of time and it also saves on labour costs as one machine can do the job of 10 people and it can still provide better results compared to manual cleaning.
- The tanks are made of tough rotomolded plastic and have large capacity of 90 Ltrs & 100 Ltrs for the solution tank and recovery tank respectively so that it can cover a larger area without needing downtime for tank refill & discharge.
- Tanks are designed to discharge water completely to eliminate bacterial & stain residue.
- Seating is designed for operator to work longer hours comfortably and also comes with a pressure sensitive switch which only activates the machine to start when the operator is seated on it and prevents machine movement caused by false triggering by anyone else other than the operator.
- The vacuum motor has a powerful suction that does not leave any water behind but is muted to eliminate noise that can cause disturbance to co-workers.
- Batteries are sealed and maintenance free and can be easily used for upto 4.5 hours on a single charge thereby saving maintenance cost and increasing productivity. The machine decelerates automatically when turning or reversing to protect people, objects and the machine also from toppling over.
- Traction motor is quite powerful and offers speeds upto 5 km/hr and climbing gradient up to 12%. Brakes are also powerful and stop the machine immediately when applied to avoid any accidents.
- The splash proof rubber of the brush is designed with elastic tension spring which saves tools for assembly and disassembly. The T90 70R is highly useful for all types of large spaces such as in large spaces such as warehouses, factories, shopping malls, airports, etc.

About the Company: Soma Specialities Pvt Ltd, the pioneer in introducing cleaning machines in India since 1992 has added yet another innovative floor cleaning machine to its range.

Contact:

Soma Specialities Pvt Ltd, Mumbai
Tel: 022-25786895
Mobile: 09594988533
Email: info@somaspecialities.com

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GRID RENEWABLE ENERGY STORAGE SYSTEM

POM Systems and Services Private Limited (Brand name: POM Power) a leading Energy Storage Solution



Company offers Grid Renewable Energy Storage system and it is widely used in Industrial commercial, Dynamic capacity expansion and micro grid scenarios, its modular design, high energy density and Intelligent control function enable it to provide customized solutions for different complex applications.

Features:

- **Grid compatibility:** The BRES system supports high precision power regulation and grid frequency response, and can easily integrate into the diverse global grid environment.
- **Rapid deployment capability:** The POM POWER energy storage container system adopts an integrated design, which is easy to transport and install, greatly shortening the customer's deployment cycle.
- **Intelligent management:** Equipped with advanced BMS and EMS systems, the BRES system realizes efficient energy management and remote monitoring and comprehensively improves operating efficiency.
- **High Safety:** The POM POWER energy storage system has undergone rigorous testing and evaluation to ensure that the system can operate stably under extreme conditions such as overload, short circuits and high temperatures to avoid potential risks.
- **Excellent performance:** With an advanced battery management system (BMS) and system integration technology, the POM POWER energy storage system achieves high-efficiency energy management and flexible scheduling to meet the needs of grid-connected applications.
- **Environmental protection and durability:** POM POWER energy storage products use high quality materials and green production processes to achieve a long-life cycle while reducing environmental impact.

About the company: POM Systems & Services Pvt Ltd, is a reputed and leading company with over 25 years of experience in the field of Power Electronics. They specialize in, smart energy storage solutions like grid renewable energy storage systems, multifunctional power conversion systems, battery energy storage systems, lithium batteries, solar power products and distributed solar power solutions.

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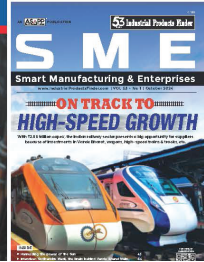
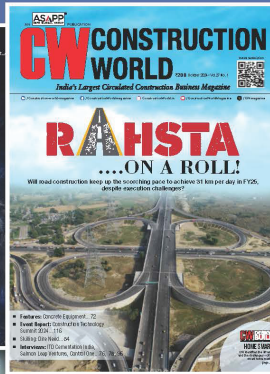


POM Systems & Services Pvt Ltd,
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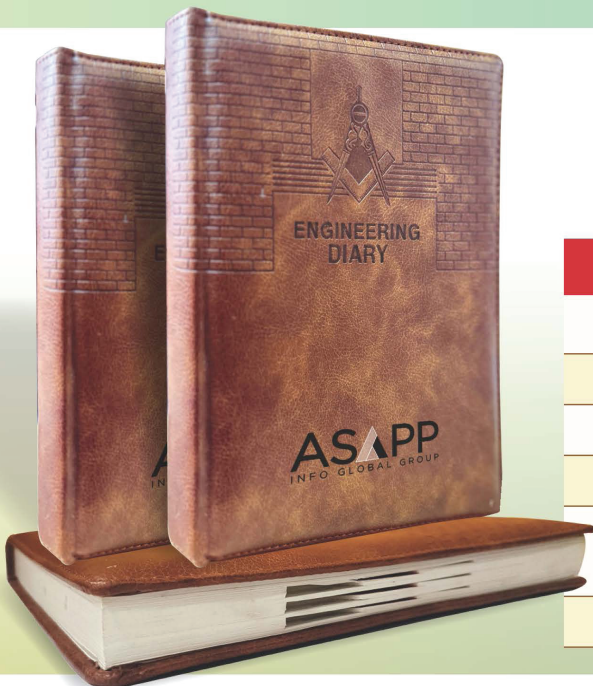


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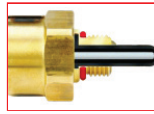
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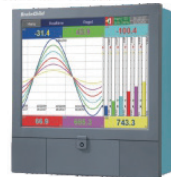
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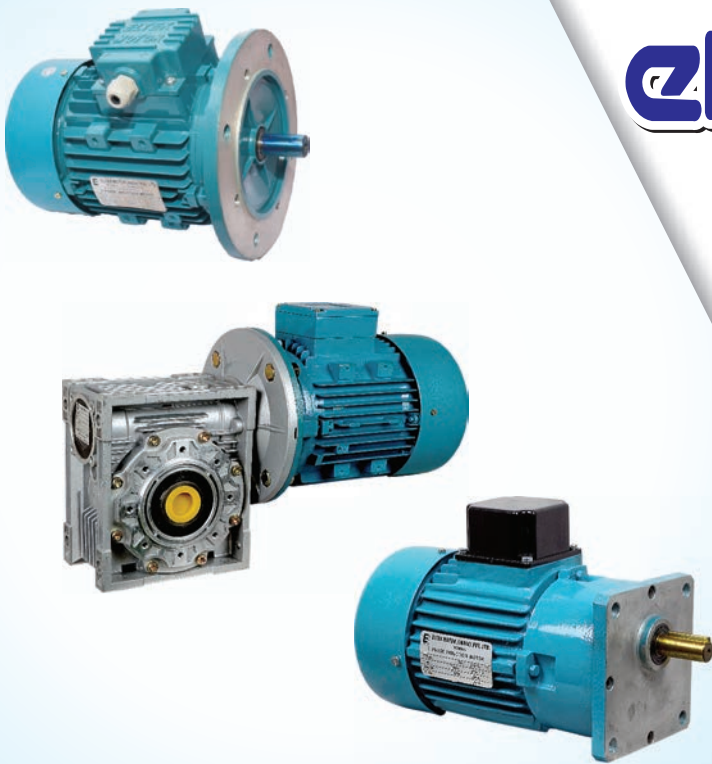
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