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India's Green Hydrogen Revolution

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CONTENTS

January-March 2025
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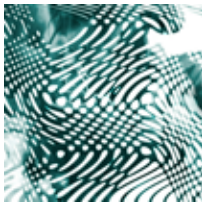
IN THIS ISSUE



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FOREWORD

Tariffs & Changing Global Trade Dynamics

RAJOO GOEL
Secretary General
ELCINA

Those of us associated with commerce and business are well aware that 'tariffs significantly impact international trade dynamics by influencing prices, trade flows, and economic relationships between nations. They can protect domestic industries but also increase costs for consumers and businesses, potentially leading to retaliatory measures and a more complex global trading environment'. Tariffs raise the cost of imported goods, potentially making domestically produced goods more competitive. As per WTO Chief Economist Ralph Ossa, 'at the most basic level, a tariff is a tax on imported products. It drives a wedge between the world price and the domestic price'.

However, the impact of tariffs is often random and unpredictable as they create an anomalous situation which is inconsistent with market forces. Tariffs can reduce overall trade volumes, raise costs artificially and create inefficiencies in a market. While tariffs are typically a useful trade tool for use temporarily to protect domestic industry allowing it to grow and become competitive, but when continued in the long term, tariffs result in complacency and inefficiency. Both of which are undesirable outcomes.

The world is witnessing a hitherto unheard of aggressive and hostile imposition of tariffs and trade restrictions, ostensibly to protect individual economies. The governments of these countries are convinced that they have borne the brunt of unfair terms of trade causing immense harm to their economic situation and loss of opportunity for their people. Stress in the global value chains of industry has been rising resulting in volatility and unpredictable behaviour by the key players. This trend has been gaining momentum over last few years, maybe from as long as a decade ago, and it has its origins in the 70's with shifting of industry and economic activity to Asia, especially to China.

This shift has been huge and was reinforced by western economies to utilise China as a low cost and efficient manufacturing base. Relations on the economic front started getting strained when the developed nations realised that China is now taking a leadership position in several emerging technologies. Simultaneously, it is becoming more aggressive in its vision, goals and objectives. There is a global realisation that China is aspiring and within striking range to become the largest and most powerful economy in the world. The power equation has tilted significantly. To add to this, we are all aware of China's aggressive postures and hostile approach when it comes to achieving its own objectives, strategic, territorial and economic, to ensure it's leadership and superiority over other

FOREWORD

> Counterpoint Research estimates that China's domination in smartphone manufacturing will decline - with its share of global production falling sharply to 55% by 2026 from 64% in 2024 - if tariff impositions and tensions continue.

nations. Sometimes even at the cost of ignoring principles of world trade and international peace, security and cooperation.

The advent of President Trump has brought a completely new facet to this scenario of strained global value chains. There are the core WTO principles of reciprocity and non-discrimination which Trump has stated as the basis of his tariffs. These two principles are accepted by WTO as effective tools and avoid mutually harmful tariffs. However, the fact is that Trump is shaking the very foundation of world trade in which United States has always, as per our memory, played a key role. As an importer, consumer, tech leader and innovator, the US has provided fertile ground for the world. Even more so as a champion of free trade, allowing among the lowest import tariffs for its huge market. However, that has been flipped over 180 degrees by Trump Tariffs and most countries are trying to figure out how to address the situation. China has been stoic while the US has been volatile, to say the least. Things are yet to settle down and we are all waiting for the 90 days moratorium period announced by Trump to end, and what will be his next move.

Most of us will agree that this is not a desirable situation, hurting most of us, and probably also the United States. India is in a relatively better situation and we are not facing the brunt of the tariff attack. In fact, it is expected that India may benefit from the tariff war between China and the US, as global IT products companies are considering shifting atleast partially, their production from China to India.

'Counterpoint Research estimates, based on discussions with global companies, that China's domination in smartphone manufacturing will decline - with its share of global production falling sharply to 55 per cent by 2026 from 64 per cent in 2024 - if tariff impositions and tensions continue'.

However, while India may benefit with its rising share of global smartphone production, this may not be as beneficial as desired, unless we can strengthen our value chain. Let's differentiate between supply chain and value chain as what is required is not just a seamless supply chain but an eco-system of components, R&D, Innovation and design. Succinctly put, we need to raise our domestic value addition from the current 15-20% to 50% in next 10 years. This means more design and manufacturing of semiconductors, components, materials, products, circuits, frugal solutions, and a supporting eco-system. We must not lose sight of sectors other than mobiles which are equally or even more important for us. There are huge market opportunities as well as strategic importance in segments ranging from consumer electronics, automotive & EV's, Industry 4.0, IoT, medical technology, information technology on one end and strategic segments on the other including communications, energy, security, space, defence, avionics etc.

So let's not get miffed and derailed by arbitrary actions of leading world economies. Tariffs are a policy tool with wide-ranging and often unintended, consequences. They may have short term appeal which can blind us to the long term costs such as inflation, competitiveness, lack of international trust and cooperation. Bharat needs to maintain its calm and confidence and march on with good policies and governance to strengthen its economy and become a leader in the world electronics industry.

COVER STORY

India's Green Hydrogen Revolution: Paving the Path to Energy Independence and Sustainable Growth

India's green hydrogen revolution is set to transform its energy landscape, driving sustainability and growth. With key investments and global partnerships, India aims to lead in clean energy, decarbonizing industries for a greener future.

Green hydrogen holds significant potential for India's transition to a sustainable, self-reliant energy future. As India aims for energy independence by 2047 and net-zero emissions by 2070, green hydrogen will be key in decarbonizing sectors like steel, cement, refining, and heavy transportation, where electrification is not viable. Leveraging India's abundant solar and wind resources, green hydrogen production can reduce dependence on fossil fuels and enhance national energy security. A major advantage of green hydrogen is its ability to address the intermittency of renewable energy. Surplus energy from solar and wind can be converted into hydrogen, which can be stored and used when demand is high or supply is low, ensuring grid stability. Hydrogen's versatility also meets energy needs in sectors where electricity alone isn't sufficient, making it vital for diverse industries.

The economic potential of green hydrogen is immense, driven by the National Green Hydrogen Mission (NGHM). By investing in electrolyzer manufacturing, infrastructure, and R&D, India can reduce production costs, making green hydrogen commercially viable. This will spur industrial growth, create millions of jobs, and position India as a global clean energy leader.

However, challenges remain in scaling up production and infrastructure. Continued policy support, strategic investments, and technological advancements are necessary to address issues like electrolyzer efficiency and storage solutions. Green hydrogen is central to India's long-term energy strategy, enabling decarbonization, enhancing energy independence, and fostering global economic growth. By overcoming these hurdles, India can unlock green hydrogen's full potential, positioning itself as a global leader in the clean energy transition.

COVER STORY

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The Key Challenges in Integrating Renewable Energy into India's Grid

India's renewable energy strategy is closely aligned with the updated Nationally Determined Contributions (NDCs) aimed at addressing climate change. The country is adopting innovative and forward-thinking approaches not only to decarbonize various industrial sectors by reducing carbon emission intensity but also to create a conducive environment for a smooth transition to clean energy through multiple pathways. In particular, India is focusing on enhancing the energy mix, with an ambitious goal to achieve a 50% share of non-fossil fuel-based electricity in the power sector by 2030, up from the current 43%.

Given the intermittent nature of renewable energy sources like solar and wind, there is a critical need for focused interventions to improve grid stability and reliability as India integrates a higher proportion of renewables into the national grid. To address these challenges, a clear and actionable roadmap has been laid out to significantly enhance energy storage capacity. India currently boasts an energy storage capacity of 4.86 GW, and this is set to expand to 73.93 GW/411.4 GWh by 2031-32. This increase will help support the target of achieving 364 GW of solar capacity and 121 GW of wind capacity.

A key component of this strategy is the National Green Hydrogen Mission (NGHM), which aims to make India a leader in green hydrogen production. By 2030, the country intends to produce 5 million metric tons (MMT) of green hydrogen, which will require an additional 125 GW of renewable energy capacity. The green hydrogen sector will not only help decarbonize hard-to-abate industries but also create new economic opportunities. To support these goals, a series of strategic policy measures are being introduced, including investments in grid modernization, tax incentives for battery storage, and accelerated depreciation for Battery Energy Storage Systems (BESS) projects. Additionally, domestic manufacturing of key technologies will be incentivized under the Production-Linked Incentive (PLI) schemes.

Furthermore, as part of India's effort to improve grid reliability and enhance the efficiency of its renewable energy system, new mandates are being introduced. For example, future solar energy tenders and rooftop solar installations will be required to include a minimum 2-hour co-located energy storage system. This will help smooth out fluctuations in renewable generation and improve reliability during peak demand periods. These efforts are crucial to realizing India's overarching goal of achieving 500 GW of non-fossil fuel-based power capacity by 2030.

Together, these integrated measures—ranging from expanding storage infrastructure and promoting green hydrogen to modernizing the grid—are positioning India to not only meet its domestic energy needs sustainably but also emerge as a global leader in the clean energy transition. By scaling up these efforts, India will contribute significantly to global climate action while also boosting its energy security and creating new economic opportunities in the clean energy sector.

Now, to scale up green hydrogen production and distribution, several technological and infrastructural challenges must be addressed. A primary obstacle is the high production cost compared to traditional methods, which requires advancements in electrolysis technology and a reduction in renewable energy costs to make

green hydrogen competitive in the market. Achieving the government's ambitious targets will also necessitate overcoming substantial technological and infrastructure barriers.

Electrolyzer Efficiency and Cost Reduction: Green hydrogen production is primarily based on electrolysis, which uses renewable electricity to split water into hydrogen. However, the cost of electrolyzers and their efficiency remain major challenges. Developing cost-effective electrolyzers with durable, high-performance catalysts and membrane materials is essential to make green hydrogen competitive with conventional hydrogen production methods. Reducing production costs is critical to achieving market competitiveness and scaling up production.

Integration of Renewable Energy: Green hydrogen production relies on intermittent renewable sources such as solar and wind power. Efficiently integrating these energy sources into hydrogen production systems is crucial to maintaining a stable and continuous hydrogen supply. This requires advancements in energy storage solutions, improvements in grid stability, and the implementation of demand-side management strategies to balance energy availability with production requirements.

Storage and Distribution Infrastructure: Hydrogen's low energy density presents unique challenges for its storage and transportation. Safe, efficient, and cost-effective storage technologies are vital, including compression, liquefaction, and alternative storage solutions such as ammonia or solid-state storage. Additionally, building an extensive distribution network, which may involve repurposing existing natural gas pipelines, will be crucial to ensure widespread and reliable hydrogen delivery.

Supply Chain and Raw Materials: The materials necessary for green hydrogen production—such as catalysts, renewable energy components, and electrolyzer materials—are currently scarce and expensive. Securing a stable supply of these raw materials and addressing potential supply chain bottlenecks will be crucial to maintaining uninterrupted production.

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Regulatory and Market Frameworks: A clear and harmonized regulatory framework is essential for encouraging investment and ensuring safety across hydrogen production, storage, and distribution. Carbon pricing mechanisms, subsidies for green hydrogen production, and global certification standards will help create a robust market, accelerating innovation and adoption.

Public Acceptance and Demand Creation: To develop a green hydrogen market across various sectors—such as transportation, industry, and power generation—targeted policy initiatives will be needed to stimulate demand. Public acceptance, which can be fostered through education and clear safety protocols, will also play a critical role in promoting widespread adoption.

Overcoming these complex challenges will require innovation, investment, and collaboration between governments, industry stakeholders, and research institutions. A coordinated effort to address these technological and infrastructural hurdles will unlock the full potential of green hydrogen as a sustainable and scalable energy solution for the future.

What The Experts Say:

According to an expert from Department of Science and Technology

Balancing energy security and climate resilience is crucial for India as it transitions to low-carbon technologies while addressing its development needs. Energy security is strengthened by diversifying the energy mix, with renewables accounting for 42% of capacity, while climate resilience tackles challenges like heatwaves and floods, which are expected to cost 10% of GDP by 2050 (WEF, 2025). Investments in energy storage (38 GW by 2030) and grid modernization, along with climate-resilient infrastructure such as flood-resistant dams, support this balance. International cooperation, including climate finance under the Paris Agreement, helps offset costs, ensuring the transition does not impede development, with a long-term goal of achieving net zero by 2070.

COVER STORY

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As per a senior official from Bureau of Energy Efficiency

Technological advancements such as high-efficiency solar panels, innovations in adaptation/adoption (e.g., floating solar farms), improved inverters, hybrid renewable systems, higher-capacity wind turbines, advanced hydrogen storage solutions, digitalization and AI for smart energy management, and cost-efficient electrolyzers with localized manufacturing will enhance India's renewable energy potential. These innovations will drive cost-effective green hydrogen production, reduce import dependency, and position India as a global leader in the green hydrogen economy, supporting its net-zero target by 2070 and beyond.

Developing Policies To Solve Challenges

India is strategically aligning its policies and programs with the National Action Plan on Climate Change (NAPCC), focusing on both climate change adaptation and mitigation. The overarching goal of achieving the targets set in the Nationally Determined Contributions (NDCs) to mitigate climate risks and drive economic growth is within reach, thanks to an integrated policy framework and a whole-of-government approach. This includes scaling up renewable energy infrastructure to reach the ambitious target of 500 GW by 2030, creating a robust green hydrogen ecosystem, and promoting sustainable agricultural practices such as climate-resilient agriculture, infrastructure development, and crop diversification. Additionally, the promotion of the Mission LiFE (Lifestyle for Environment) initiative aims to engage the public in actively contributing to the transition towards a greener future.

The Skill Council for Green Jobs, established in 2015, is pivotal in addressing the growing demand for skilled labor in climate-resilient technologies. By 2030, the renewable energy sector is expected to create 3 million jobs, as projected by the IEA in 2024. Supporting policies include investment in research and development (R&D), skill development programs, and a just transition framework, ensuring that economic growth and sustainability go hand-in-hand, while generating jobs in sectors like solar, wind, and energy efficiency.

As global warming, driven by climate change, increases the frequency, intensity, and duration of extreme weather events, India's efforts to mitigate climate risks while fostering economic growth and environmental sustainability must prioritize the adoption of green technologies. In parallel, targeted skill development programs, promoting R&D, accelerating the growth of startups and MSMEs, and infusing investments in clean technologies are essential for ensuring a smooth transition to a low-carbon economy. To bridge funding gaps and accelerate the deployment of low-carbon technologies, robust financial mechanisms such as PLI schemes, blended climate finance, and green bonds are being leveraged.

Strengthening grid integration for renewable energy and implementing key programs under initiatives like the Solar Mission, Mission Enhanced Energy Efficiency, Green Hydrogen Mission, Water Mission, Green India, Sustainable Agriculture, Sustainable Habitat, and Sustaining the Himalayan Ecosystem are all integral components of India's comprehensive approach. These programs aim to

meet the country's targets for a development-led, inclusive, and sustainable clean energy transition, balancing climate resilience with economic expansion. By combining efforts to scale green technologies, enhance energy infrastructure, and create jobs, India is paving the way for a future that is both climate-resilient and economically prosperous.

Collaboration With Global Partners Too Boost Technology

Indian companies are forming strategic global partnerships to accelerate green hydrogen technology development and lower production costs.

- Reliance New Energy Limited (RNEL) has partnered with Norway's Nel ASA and Denmark's Stiesdal A/S to manufacture HydroGen Electrolyzers in India. Its Gujarat-based gigafactory, set to be operational by 2026, will strengthen domestic manufacturing and reduce import dependency.
- GreenH Electrolysis, a joint venture with Spain's H2B2 Electrolysis Technologies, is manufacturing PEM electrolyzers in Haryana.
- Adani Group has collaborated with Australia's Cavendish Renewable Technology (CRT) for electrolyzer development. Additionally, Adani Total Gas Ltd (ATGL), a joint venture with TotalEnergies, is pioneering hydrogen-natural gas blending (2.2-2.3%) in Ahmedabad, Gujarat, advancing hydrogen integration into existing energy infrastructure.

With over 200 GW of installed renewable energy capacity and significant biomass potential, India has abundant resources for low-cost hydrogen production. The Department of Science and Technology (DST) and Ministry of New and Renewable Energy (MNRE), -conceptualized Hydrogen Valley Innovation Cluster to promote public-private partnerships, fostering national and global collaborations to strengthen India's hydrogen economy.

Freepik

The Specific Investment in R&D and Pilot Projects In Improving Green Hydrogen

Early investments are crucial to advancing emerging technologies, and the Government of India has been proactive in funding research and development (R&D) as well as deployment of green hydrogen technologies. This strategic investment aims to reduce costs, enhance efficiency, and position India as a global leader in the green hydrogen space.

The Department of Science and Technology (DST) launched the Hydrogen & Fuel Cell (HFC) Program in 2018, committing approximately ₹180 crore to support over 80 projects, including planned initiatives. This program covers various critical areas, including materials research, hydrogen storage, fuel cells, and system integration, effectively bridging the gap between R&D and commercialization. DST has also set up two Centers of Excellence (CoEs) focused on materials research, prototype development, and technological advancements. Notable successes from this program include innovative projects like Quantum-powered Green Hydrogen Production Technology, Metal Hydride-Based Multi-Stage Hydrogen Purification, and Hydrogen Storage for Two-Wheelers.

Building on this foundation, the Hydrogen Valley and Infrastructure and Commercialization (HVIC) scheme is designed to improve green hydrogen technology through both technical and business innovations. It focuses on areas such as advancements in electrolyzers, hydrogen distribution, storage systems, and utilization solutions. The HVIC initiative, supported by R&D efforts, capacity building, and small-scale demonstration projects, will facilitate the connection of hydrogen producers with end-users through Section 8 companies. This will help foster the indigenization of hydrogen technologies, making them more commercially viable and accessible.

A landmark initiative in India's green hydrogen journey is the National Green Hydrogen Mission (NGHM), launched by the Ministry of New and Renewable Energy (MNRE) with an initial outlay of ₹19,744 crore. The mission aims to position India as a

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global hub for green hydrogen production, utilization, and export. Its components focus on piloting, R&D, and the development of Hydrogen Hubs, paving the way for large-scale production and integration of green hydrogen across various sectors.

The NGHM includes ambitious pilot projects that include a ₹455 crore investment to integrate hydrogen into direct reduced iron (DRI) production for green steel, a ₹496 crore initiative for hydrogen-powered buses, trucks, and rail transport under green mobility, and a ₹115 crore project to explore hydrogen and ammonia as marine fuels for shipping. Furthermore, the mission supports the development of at least two Green Hydrogen Hubs, with an allocation of ₹400 crore, to create regional ecosystems that integrate hydrogen production, storage, transportation, and industrial applications.

The National Green Hydrogen Mission aims for a substantial output of 5 million metric tonnes (MMT) of green hydrogen production annually and plans to install between 60-100 GW of electrolyzer capacity to support this.

When compared globally, India's green hydrogen ambitions are noteworthy. For instance, the European Union's Hydrogen Strategy has allocated over €1 billion ($1.1 billion) for large-scale hydrogen projects, while the U.S. Hydrogen Shot Initiative is backed by a $9.5 billion investment aimed at developing regional hydrogen hubs and reducing production costs. While India's investment may appear smaller in comparison, its competitive advantage lies in significantly lower renewable energy costs, government-backed production incentives, and a broad domestic off-taker market. These advantages position India as a key player in the long-term global hydrogen economy, with the potential to not only meet its domestic needs but also serve as a major exporter of green hydrogen in the future.

In conclusion, India's green hydrogen strategy, supported by substantial government investment in R&D, infrastructure, and commercialization, aims to make the country a leader in the global hydrogen economy. With a combination of competitive renewable energy pricing, strong policy backing, and an emerging domestic market, India is well-placed to achieve its green hydrogen targets and contribute significantly to the global transition to a clean energy future.

Conclusion

With substantial investments in research, technology development, and infrastructure, India is positioning itself as a global leader in the green hydrogen economy. The National Green Hydrogen Mission and various policy initiatives, alongside strategic partnerships with global players, are catalyzing the production and integration of green hydrogen across key sectors. Despite the challenges in cost, technology, and infrastructure, India's competitive renewable energy resources, government-backed incentives, and growing domestic market offer a promising path forward. By overcoming these hurdles, India can not only achieve its ambitious climate goals but also drive economic growth, create jobs, and enhance energy security, contributing significantly to global climate action. Green hydrogen is not just a fuel for the future—it is a cornerstone of India's long-term, low-carbon development strategy.

INDUSTRY UPDATE

Market Trends from India & Abroad

TOP STORIES

Tata Group Announces Rs 30,000 Crore Investment for Electronics and Mobile Manufacturing in Assam

With Assam witnessing windfall of investment proposals amounting to over Rs 5,18,205 crore the state is looking to implement at least 80 percent of the proposal in next five years. These proposals were made during recently concluded Advantage Assam 2.0 Investment and Infrastructure Summit. The Assam chief minister Himanta Biswa Sarma on Friday said Tata group has announced plans to establish a large-scale manufacturing facility for electronics and mobile technology in the State, with an investment of Rs 30,000 crore and hydrocarbon companies will pump in at least 85,000 Crore in exploration. The Tata project, set to be developed over the next five years, confirming the group's expansion plans, Tata Sons chairman Natarajan Chandrasekaran, during the Advantage Assam 2.0 Summit, revealed that Assam would host the new mobile manufacturing unit. Tata group is already coming up with a semiconductor packaging and testing unit in Jagiroad, Morigaon district. The semiconductor plant is set to be India's first indigenous chip assembly and testing facility.

(By Bikas Singh, https://economictimes.indiatimes.com/, February 28, 2025)

India Begins Exporting Apple Components to China, Vietnam

India has begun exporting electronic components to China and Vietnam for the first time, contributing to the production of Apple products such as MacBooks, AirPods, iPhones, and Apple Watches. This marks a significant shift in Apple's supply chain strategy, diversifying its sourcing beyond China. Key suppliers, including Motherson Group, Jabil, Aequs, and Tata Electronics, are manufacturing components such as enclosures for Apple's products in India, excluding iPads, and exporting them to final assembly locations in China and Vietnam. According to a report by the Economic Times, Apple's expansion into local component manufacturing is a part of its strategy to enhance domestic value addition and develop a robust local ecosystem in India. By deepening its procurement efforts beyond iPhones, Apple aims to build a component ecosystem that strengthens India's position as a key player in global electronics manufacturing. This shift is especially notable, as India has been a net importer of components from China and Vietnam for the past two decades.

(By Shubha Mitra, https://www.electronicsforyou.biz/, February 28, 2025)

GlobalFoundries, Analog Devices Prepare for Tariff Impact

Chipmakers GlobalFoundries and Analog Devices are putting more efforts to diversify supply chains in anticipation of the Trump administration's proposed 25 per cent tariff on semiconductor imports, set to take effect by April 12, 2025. This tariff plan is expected to strain an already volatile global semiconductor supply chain, according to a report by the Manufacturing Dive. Speaking on GlobalFoundries' Q4 earnings call, CEO Thomas Caulfield highlighted the critical need for supply chain diversification to re-

INDUSTRY UPDATE

advantageassam.assam.gov.in

duce the potential impact of the tariffs. He noted that customers are increasingly requesting multi-sourced products from various regions, making diversification a priority for the company. GlobalFoundries is looking to utilise its extensive manufacturing network across the US, Europe, and Asia, with particular emphasis on its US facilities in Malta, New York, and Burlington, Vermont, to serve American automakers.

(By Shubha Mitra, https://www.electronicsforyou.biz/, February 25, 2025)

Assam Secures around ₹5 Lakh Crore Investments at Advantage Assam 2.0 Summit

The Advantage Assam 2.0 Investment and Infrastructure Summit 2025 concluded with investment commitments totaling ₹4.91 lakh crore, announced by major conglomerates such as Reliance, Adani, Vedanta, and Tata Group, according to Chief Minister Himanta Biswa Sarma. Chief Secretary Ravi Kota confirmed that the state government signed 270 agreements worth ₹2.75 lakh crore with various companies, marking a major milestone in Assam's industrial growth. The summit witnessed a surge of investment proposals, with the state government receiving ₹6-7 lakh crore worth of proposals. However, Sarma emphasised that only actionable investments for the next three to four years were approved after due scrutiny. He termed the event a "defining moment" for Assam, underscoring the state's focus on quality over quantity in investment decisions. Highlighting Assam's economic transformation, Sarma pointed out that before Independence, the state's per capita income was 4% higher than the national average. However, Partition disrupted trade links, increasing travel time for goods from eight hours to 48 hours. Subsequent decades of agitation and insurgency further slowed progress.

(https://egov.eletsonline.com/, February 27, 2025)

At Global Summit Curtain-raiser, MP CM Mohan Yadav says State is Key 'Destination' for Investment

Madhya Pradesh holds immense potential as an investment destination, Chief Minister Mohan Yadav said Wednesday during a curtain raiser event for the Global Investors Summit (GIS)-2025. The event, held in New Delhi, witnessed the participation of over 400 industrialists, diplomats and policymakers from the country and abroad. The summit will be held in Bhopal on February 24-25. In his speech, Yadav said the state "offered significant advantages" to investors, with affordable land prices, consistent electricity supply and strong connectivity through roads, railways and airways. The state also provides special incentives, "including a 200 percent subsidy in the textile sector and a streamlined process for startups," Yadav said, stressing on the state's "investor-friendly policies such as its strategic location and affordable operational costs." The CM also highlighted the state's "growing role in India's economic progress", crediting PM Narendra Modi for India's rapid advancement towards becoming the world's third-largest economy. He also acknowledged the role of industrialists in creating jobs and fostering development.

(https://indianexpress.com/, February 13, 2025)

INDUSTRY UPDATE

Firms Hire Global Leaders as Talent Shortage Hits Indian Electronics Sector

Dixon Technologies is expanding its talent pool by recruiting senior professionals from international markets like Taiwan, Japan, Mexico, and Europe. The company has already onboarded three expatriates from prominent firms such as Wistron Corp and HKC Co, with plans for further hires, according to a report by The Economic Times.. As Indian electronics manufacturers venture into more complex areas like component production, they are intensifying efforts to recruit experienced leaders, including expatriates and Indians with international exposure. This move comes at a time when India's emerging sector faces a significant talent shortage, especially within leadership roles. Currently, over 80 leadership positions are available in the sector. Major companies like Tata Electronics, Zetwerk, Micromax-owned Bhagwati Products, Epack Durable, Amber Enterprises, CG Semi, L&T Semiconductor, and Syrma SGS are actively recruiting top talent.

(By Rimjhim Singh, https://www.business-standard.com/, February 10, 2025)

India's Electronics Export Hopes Dim as Trump eyes Tariffs

Exporters of Made-in-India electronic products such as smartphones and auto components to the world's largest economy are likely to find themselves at a disadvantage compared to Chinese shipments following US President Donald Trump's announcement of imposing reciprocal tariffs on trade partners including India, said industry executives. At present, India enjoys zero duty on exports of electronic products and auto components to the US, even as it imposes tariffs of 7-22% on imports of these products from the US. The development comes at a time when India and the US want to increase the bilateral electronics trade to $100 billion from $8 billion in 2022-23. Overseas firms Apple, Motorola and Samsung are exporting Indian-manufactured smartphones to the US, while some electronics companies such as Havells and Blue Star recently started exporting lighting, electrical products and ACs either under their own labels or those of American brands.

(By Writankar Mukherjee and Sharmistha Mukherjee, https://economictimes.indiatimes.com/, February 15, 2025)

Karnataka Unveils Clean Mobility Policy 2025-2030, Aiming for ₹50,000 Cr Investment & 1 Lakh Jobs

Karnataka, India's pioneering state in EV policy, has launched the Clean Mobility Policy 2025-2030 at Invest Karnataka 2025 – Global Investors Meet. Unveiled by K J George, Hon'ble Energy Minister, in the presence of D K Shivakumar, Hon'ble Deputy Chief Minister, M B Patil, Hon'ble Large & Medium Industries Minister; Shashi Tharoor, Hon'ble Member of Parliament, Lok Sabha and other dignitaries, this landmark policy aims to position Karnataka as Asia's premier clean mobility hub. Targeting investments of ₹50,000 crore across the clean mobility value chain, with a vision to generate 1 lakh new jobs in the sector. They are providing subsidies of up to 25% on total invested capex across Karnataka, including Bengaluru Urban and Bengaluru Rural regions, which are eligible for a 20% capex subsidy. Karnataka already boasts 2.5 lakh registered EVs and 5,403 EV charging stations, ranking third in India for EV adoption. The policy targets the installation of an additional 2,600 charging stations through public-private partnerships.

(https://egov.eletsonline.com/, February 14, 2025

Phone Makers Seek PLI Renewal, say There's More to Be Done

Mobile phone makers are urging the government to extend the production-linked incentive scheme for smartphones, arguing it will foster greater local value addition and kick start product design in the country. The current PLI scheme is set to expire in 2026. The PLI 1.0 has achieved a large part of the objectives, but there is more work to be done, said Sunil Vachani, outgoing president of Consumer Electronics and Appliances Manufacturers Association (CEAMA), an industry body representing consumer electronics, home appliances and mobile phone makers. "We need to consolidate and gauge what we have made. And that's why we are requesting that we have another round of PLI. By that time, companies will have come in, and design will have started," he said. Vachani, who is also chairman and managing director of Dixon Technologies, emphasised the importance of leveraging geopolitical shifts, including opportunities arising from Donald Trump's presidency in the United States.

(By Subhrojit Mullick, https://economictimes.indiatimes.com/, January 12, 2025)

Taiwan-based MSI Partners with India's Syrma SGS for Laptop Manufacturing in India

Syrma SGS Technology Limited, an electronics systems design and manufacturing company, recently announced its partnership with Taiwan-based MSI as its manufacturing partner in India to produce laptops for the Indian market. Through this strategic collaboration, Syrma SGS will assemble laptops for MSI at its state-of-the-art Chennai facility. MSI and Syrma SGS are setting the stage for a phased approach to localize manufacturing for MSI in India through this alliance, starting with the assembly of laptops. Backed by MSI's technology transfer and best practices, Syrma SGS will leverage its high-quality, scalable manufacturing process to deliver on its 'Make in India' promise. The company said that the long-term collaboration will cater to the Indian market, bringing premium MSI laptops closer to consumers.

(https://indianstartupnews.com/, January 13, 2025)

GENERAL ELECTRONICS

India's First Semiconductor Chip to be Ready by 2025; Top Companies Tata, Micron in the Race

Ashwini Vaishnaw, the union minister of information technology and electronics, stated on Wednesday that the first semiconductor chip made in India will be ready for manufacturing by 2025. He addressed the event online on the second day of the Madhya Pradesh Global Investor Summit 2025 in Bhopal. India has achieved significant progress in the semiconductor manufacturing sector over the last three years, with the goal of becoming a leader in the area, according to Vaishnaw, as reported by news agency ANI. He was talking about the efforts made under the India Semiconductor Mission (ISM), which was launched in December 2021. The Adani Group and Larsen & Toubro (L&T), two other significant Indian conglomerates, have also made headway in this market, highlighting the industry's increasing strategic significance in India's economic and national security agenda.

(https://www.jagranjosh.com/, February 25, 2025)

Lam Research to Invest ₹10,000 Crore in Karnataka's Semiconductor Industry

Lam Research, a leading American semiconductor equipment manufacturer, has announced an investment of over ₹10,000 crore in Karnataka. The announcement was made at the Global Investors Meet: Invest Karnataka 2025, held at Bangalore Palace on February 12, 2025. This move strengthens India's semiconductor ecosystem and aligns with the government's push for domestic chip manufacturing. The company has signed an MoU with the

wikimedia

INDUSTRY UPDATE

Chennai-based Silectric Semiconductor Manufacturing Pvt Ltd, is set to invest Rs. 3,425.60 crore in Karnataka's first electronics manufacturing cluster at Mysuru.

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Karnataka Industrial Areas Development Board (KIADB) to lease and later purchase land in Whitefield, Bengaluru. With this expansion, Lam Research aims to scale operations, enhance research and development, and expand its supply chain in India.

(https://currentaffairs.adda247.com/, February 15, 2025)

MoSPI and IIIT-Delhi Collaboration to Modernize Official Statistics

In a significant step towards modernizing India's National Statistical System, the Ministry of Statistics and Programme Implementation (MoSPI) has signed a Memorandum of Understanding (MoU) with Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi) under its Data Innovation Lab initiative. The agreement, signed on January 30, 2025, aims to enhance data collection, processing, and dissemination through cutting-edge technologies such as Artificial Intelligence (AI), Machine Learning (ML), and Big Data Analytics. The Data Innovation Lab was launched in July 2024 as part of MoSPI's efforts to bring research-driven solutions into official statistics. It serves as a hub for leveraging emerging technologies to improve data quality and enable real-time analytics. Over the past year, MoSPI has undertaken several initiatives to reform and modernize statistical methodologies, making them more responsive to the needs of policymakers and stakeholders.

(https://egov.eletsonline.com/, February 01, 2025)

Minda Partners Flash Electronics to Develop EV Platform

Minda Corporation has announced a strategic partnership with Flash Electronics to create the fastest-growing EV platform in the country. Both companies have a diversified, yet synergized, product portfolio where Minda Corporation is into Automotive body electronics and Flash is in automotive Engine and Powertrain electronics. This partnership going forward will create a synergetic and wide portfolio for both partners. Through its differentiated innovation, Flash has been at the forefront in electricals and electronics for two and three-wheeler ICE specialising in ignition electricals and electronics. Being among the early entrants in the field of EV powertrain, Flash is among the market leaders for motor, motor controllers, vehicle control units, etc. Flash has developed innovative solutions for the electric powertrain and would be soon launching the same for passenger cars and commercial vehicles.

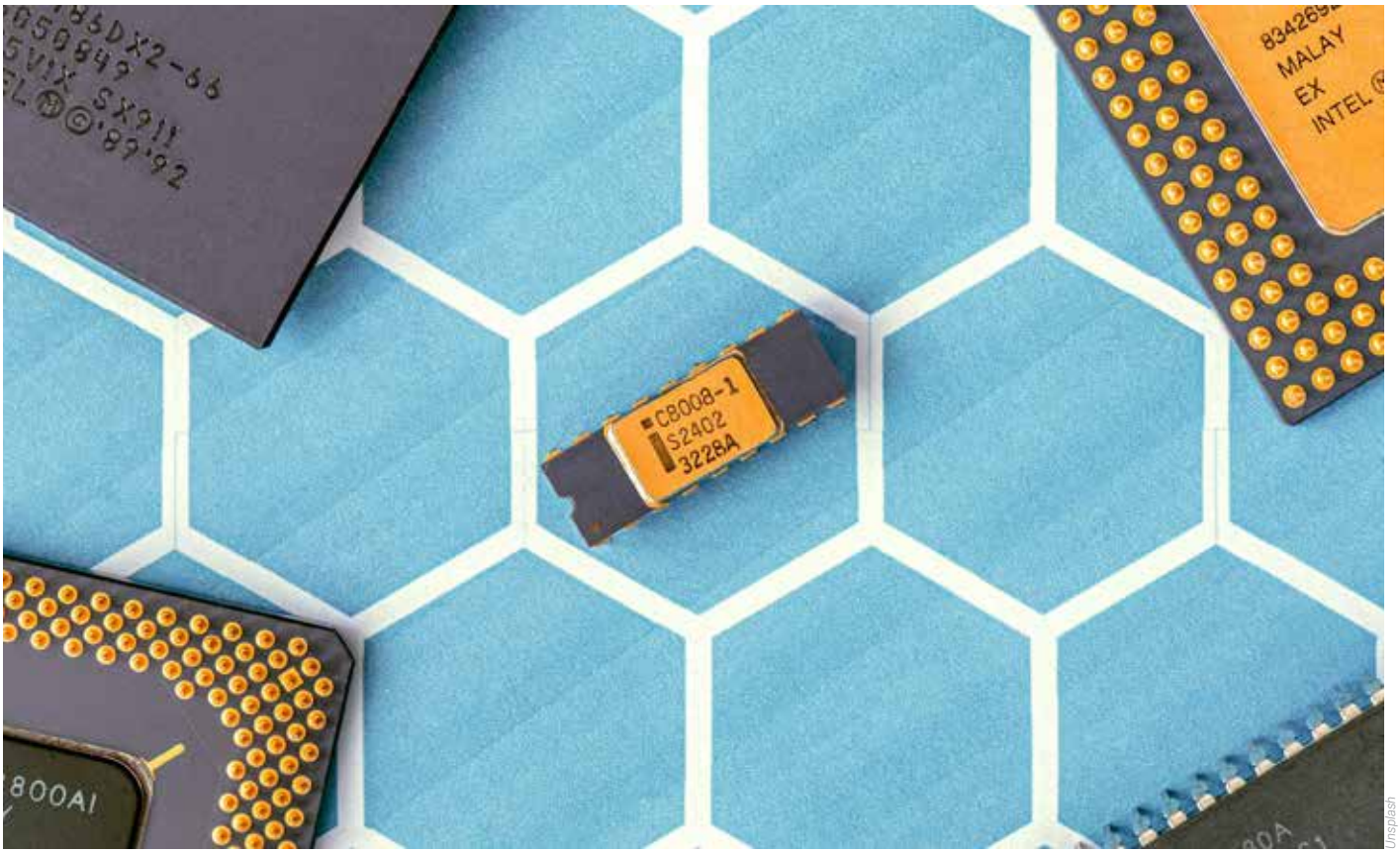
(https://www.financialexpress.com/, January 15, 2025)

Boost to Semiconductor Manufacturing in Mysuru: Silectric Semiconductor to Invest Rs. 3,425 Crore at Kochanahalli

Chennai-based Silectric Semiconductor Manufacturing Pvt Ltd, established by directors of Zoho, is set to invest Rs. 3,425.60 crore in Karnataka's first electronics manufacturing cluster at Kochanahalli near Nanjangud, Mysuru. This venture is projected to create 460 jobs and will be set up on a 40-acre site. The 64th State High-Level Clearance Committee (SHLCC), chaired by Chief Minister Siddaramaiah, recently approved 10 proposals across various industrial sectors worth a total of Rs. 9,823 crore, which are expected to generate 5,605 jobs. During the meeting, Siddaramaiah announced that the first semiconductor project in the State would be established at the Kochanahalli Electronics Manufacturing Cluster. The Karnataka Industrial Area Development Board (KIADB) has earmarked 234 acres at Kochanahalli, near Kadakola, for the electronics manufacturing cluster (EMC) and semiconductor units. The Government plans to introduce a new Electronics System Design and Manufacturing (ESDM) policy to attract further investments.

(https://starofmysore.com/, December 31, 2024)

INDUSTRY UPDATE



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Chip Design Subsidy may be Doubled to Rs 30 Crore

The ministry of electronics and IT (Meity) is working on a proposal to double the subsidy under the design-linked incentive (DLI) scheme, a key component of India's Rs 76,000-crore semiconductor incentive programme. Officials said that the proposal, which is under examination, plans to increase the startup subsidy from the current Rs 15 crore to Rs 30 crore as part of the upcoming semiconductor incentive scheme 2.0. Meity is also considering capex-linked subsidies to attract larger fabless companies interested in designing chips with intellectual property (IP) developed within the country. This new structure could be like the fiscal support provided for setting up fabrication units. The proposed enhancements follow a lackluster response to the existing DLI scheme, which has benefited 14 startups out of approximately 60 applications.

(By Jatin Grover, https://www.financialexpress.com/, December 31, 2024)

Kaynes Tech Eyes Expansion into Semiconductor Industry to Enhance EMS Capabilities

Kaynes Technology India, a leading electronics manufacturing services (EMS) provider, is embarking on a strategic expansion aimed at becoming a fully integrated player in the industry. Jairam Sampat, Whole-Time Director and CFO of Kaynes Technology, said, "We do believe that as part of our strategy, we must deepen our technology presence, and just being an assembler is not going to be sufficient for meeting the growth aspirations of all the stakeholders that we have in the company." As part of its strategy to build a stronger technological foundation, Kaynes is focusing on the establishment of its semiconductor manufacturing facility. Sampat shared details on the ongoing process: "First, we have to get our semicon factory going. We are in the process of setting up the buildings, etc. So in the coming year, we can do the proof of concept as well as by January-March of next year, we will probably have the commercial production going."

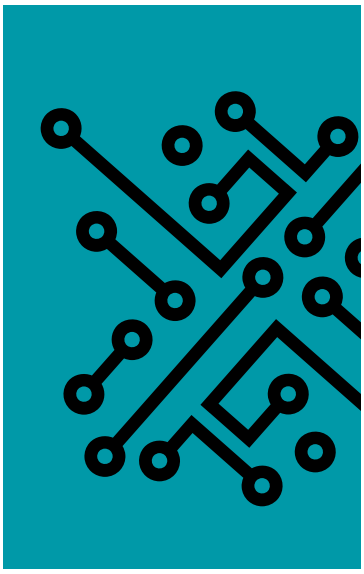
(By Reema Tendulkar, https://www.cnbctv18.com/, December 17, 2024)

Gujarat Launches Rs 840 Crore Semiconductor Facility in Surat

In a significant stride towards India's technological self-sufficiency, a new semiconductor chip manufacturing facility was inaugurated on Sunday in Bagumara village, Palsana taluka of Surat district. Central Jal Shakti Minister CR Paatil presided over the ceremony, marking a notable milestone for the state's industrial landscape. The state-of-the-art plant, established by Suchi Group—a company transitioning from the textile sector—represents a substantial investment of Rs 840 crore. With a production capacity of 300,000 chips daily, the facility underscores Gujarat's emerging potential in high-tech manufacturing.

(https://knnindia.co.in/, December 16, 2024)

INDUSTRY UPDATE



INFORMATION TECHNOLOGY

Lenovo Plans to Manufacture 'AI PCs' in India amid Diversification Drive

Lenovo plans to manufacture PCs with artificial intelligence features in India this year, underscoring the company's push to diversify its supply chain in the world's fastest-growing major economy. "It's in the early stages, but we need to first comply with the local government policy," said Ivan Cheung, Vice President & Chief Operating Officer, Asia Pacific, Lenovo (AP), in an interview with indianexpress.com at an event in Yokohama, Japan. "We need to focus on manufacturing and serving the Indian demand first before expanding the plant and manufacturing capability." The world's largest PC maker already manufactures some of its commercial PCs in India at a plant in Puducherry, while contract manufacturer Dixon makes Motorola smartphones. However, Lenovo is now also interested in manufacturing cutting-edge AI PCs in the country as it seeks to expand its local manufacturing footprint and take advantage of the government's production-linked incentive scheme.

(By Anuj Bhatia, https://indianexpress.com/, February 27, 2025)

ESC Calls for Incentives to Promote R&D, Innovation in Electronics

Electronics and Computer Software Export Promotion Council (ESC) has batted for further calibration of Design Linked Incentive (DLI) scheme to make it more broad-based and impact-oriented. The industry body has made a strong pitch for incentives to promote R&D and innovation in capital-intensive electronics hardware sector during a recent interaction with Finance Minister Nirmala Sitharaman, a release said on Sunday. ESC has also sought additional income tax reduction for Indian corporates spending over 3 per cent of their turnover to advance R&D and filing patents/designs in India. The export promotion council...said that a well-calibrated incentive system designed to empower industry players could motivate nascent industry units to move in the R&D value chain in cutting-edge technology domains like AI, IoT, telecom, and embedded technologies in sectors like semiconductors, consumer electronics, and defence equipment.

(https://www.business-standard.com/, December 24, 2024)

India to Take Up Biden's AI Chip Export Curbs with Trump Govt

India will raise the issue of the US imposing a country-specific cap on exports of AI compute and foundational models with the incoming Donald Trump administration, a senior official told ET. The Ministry of Electronics and Information Technology (MeitY) has held "initial discussions" with various arms of the government, including national security advisor (NSA) Ajit Doval's office, and has shared analysis and concerns pertaining to the move by the outgoing Joe Biden US administration. "We really have to take it up with the new government once it comes in," the official said. The cap could be detrimental to India's tech industry in the long term even if it's not an immediate crisis for the country, the person added. The government will raise the issues under the India-US Initiative on Critical and Emerging Technologies (iCET) framework, the official said.

(By Surabhi Agarwal, January 21, 2025)

India Considering Lowering Tariffs on Some High-end Products from US

India is considering lowering tariffs on some high-end products from the United States, including specific steel, luxury motorcycles, and electronic goods, a report in NDTV Profit said, citing sources. This move, expected to be confirmed when Finance Minister Nirmala Sitharaman presents the budget on Saturday, might not significantly impact Indian industries. India currently imposes duties of over 100 per cent on 20 items imported from the US. The potential tariff cuts come just a day after US President Donald Trump criticised India, China, and Bra-

zil for imposing high tariffs. During a conversation with House Republicans, Trump stated, "We're not going to let that happen any longer... we're going to put America first," referring to these countries as "tremendous tariff makers." His comments reflect ongoing frustrations with trade imbalances, particularly with countries that impose high duties on US goods.

(By Md Zakariya Khan, https://www.business-standard.com/, January 29, 2025)

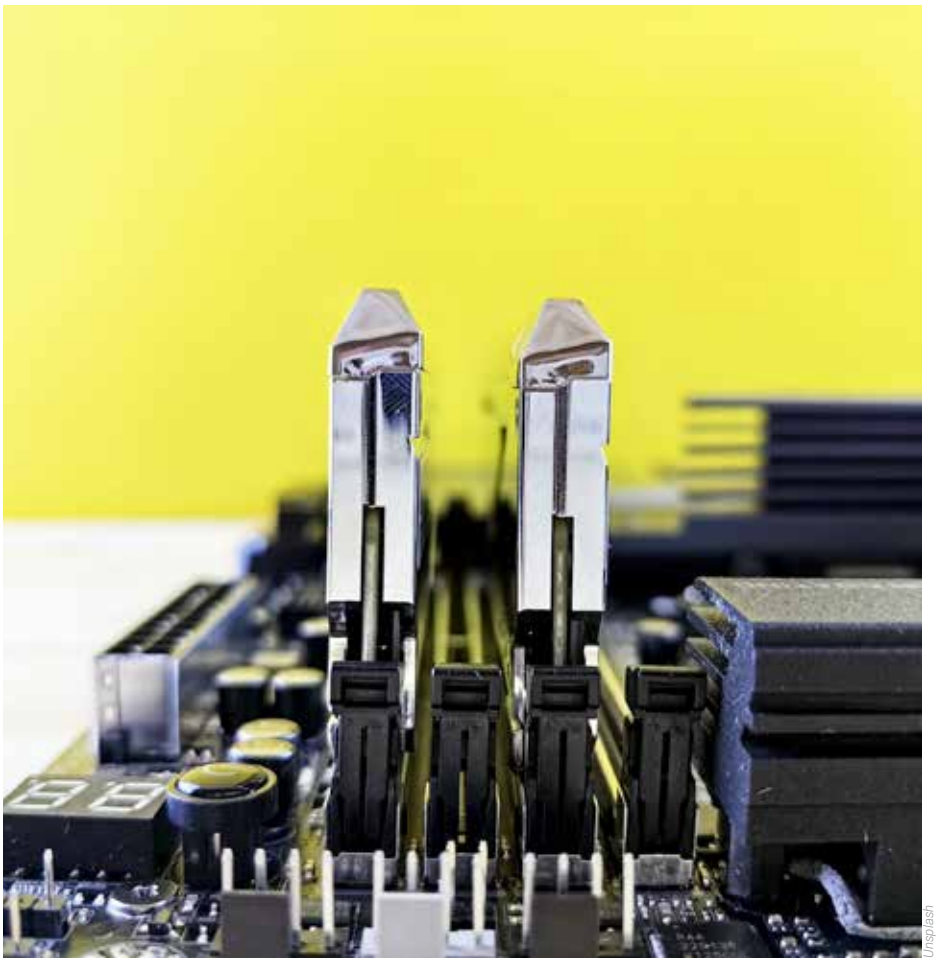
IT Hardware PLI Scheme Generated Output worth Rs 10,015 Crore

The production linked incentive (PLI) scheme for IT Hardware and its 2.0 version have collectively generated a total production value of Rs 10,014.72 crore as of December 2024. As per the Ministry of Electronics and Information Technology (MeitY), the schemes, which incentivize the production of electronic items like smartphones, laptops, personal computers and desktops, have attracted Rs 522.17 crore in investment and created 3,879 direct jobs so far. Building on the success of the scheme for mobile phones, the government approved the PLI scheme 2.0 for IT hardware on May 17, 2023. This expanded scheme supports the manufacturing of laptops, tablets, all-in-one PCs, servers, and ultra-small form factor devices in India. A total of 27 IT hardware manufacturers, including leading brands like Acer, Asus, Dell, HP, and Lenovo, have been approved under the scheme.

(https://www.newindianexpress.com/ January 15, 2024)

India Expands IT Hardware Manufacturing; Total Electronics Production rises to Rs. 9.80 Lakh Crore

India's electronics manufacturing sector has reached a historic milestone with the inauguration of Syrma SGS Technology's state-of-the-art laptop assembly line in Chennai, inaugurated by Union Minister of Electronics and Information Technology, Ashwini Vaishnaw. The new assembly line will initially produce 100,000 laptops annually, with production capacity expected to scale up to 1 million units within the next 1-2 years. This initiative is part of the government's Production Linked Incentive (PLI) 2.0 scheme for IT hardware. PLI 2.0 is propelling India's IT hardware revolution, having already driven ₹10,000 crore in production and the creation of 3,900 jobs in just 18 months. Syrma SGS operates four manufacturing units in Chennai, with laptop production now underway at Unit 3.



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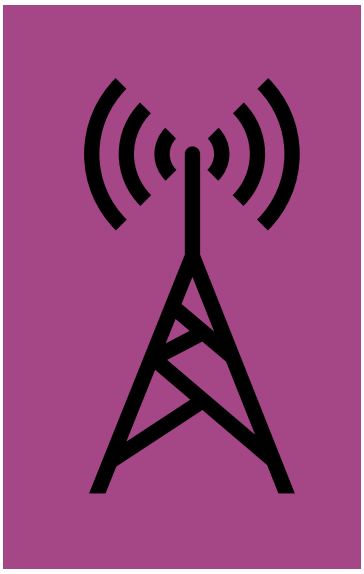
(https://ddnews.gov.in/, January 13, 2025)

Tamil Nadu Leads with 80 per cent Local IT Workforce, says Minister Palanivel Thiaga Rajan

Tamil Nadu boasts the unique distinction of having 80 per cent of its information technology workforce hailing from the state, said Palanivel Thiaga Rajan, Minister for Information Technology and Digital Services, on Tuesday. The Minister affirmed that the government remains committed to fostering ease of doing business for companies already established in the state. "Tamil Nadu's strength lies in its unparalleled technology talent, with 20 per cent of India's technology professionals hailing from the state," he said during his inaugural address at the 22nd edition of the two-day Connect 2024, organised by the Confederation of Indian Industry (CII) Chennai. The Minister outlined key government priorities, which include skilling graduating talent and integrating them into the workforce through the ICT Academy, as well as establishing policies for research and development, deep technology, and creating a skilled and stable local workforce.

(https://www.newindianexpress.com/, December 17, 2024)

INDUSTRY UPDATE



TELECOM

No Need for Private 5G Networks in India amid Wide Telecom Reach

Given India's widespread telecom penetration, the need for enterprises to establish private 5G networks is virtually non-existent, telecom operators reiterated on Thursday. As per a news report by Business Standard, Reliance Jio, Bharti Airtel and Vodafone Idea said Captive Private Networks or Captive Non-Public Networks (CNPNs), which are primarily required in geographically vast and sparsely populated regions where public telecom connectivity is limited or non-existent, do not really apply in the Indian ecosystem. The statement comes days after the Telecom Regulatory Authority of India (TRAI) brought out its latest recommendations on network authorisations under the Telecommunications Act, 2023. TRAI has recommended a separate authorisation framework for CNPN providers under Section 3 of the Act, with the scope of establishing, maintaining, operating and expanding the networks for enterprises. The Act allows the government to assign spectrum administratively to entities in defence, law enforcement, broadcasting services, disaster management, navigation, telemetry, in-flight and maritime connectivity, as well as for safety and operations of mines, ports and oil exploration, among others.

(By Subhayan Chakraborty, https://www.business-standard.com/, February 27, 2025)

New Draft Compliance Standards for Telecoms Equipment

The Department of Telecommunications under the Ministry of Communications has released new draft rules on the standards, conformity assessment and certification of telecoms equipment. The draft rules are intended to improve security, interoperability and the quality of telecoms services. Feedback from stakeholders has been invited within 30 days of the release of the draft rules. The rules will replace the Indian Telegraph (Amendment) Rules, 2017. However, the proposed rules will not replace the terms and conditions of existing standards, conformity assessment, specifications, as well as requirements for essential matters, interface, security assurance, and testing. Under the proposed rules, stakeholders and operators must comply with stricter compliance requirements for their operations. he Telecommunication Engineering Centre and the National Centre for Communication Security are the authorities that can change or review rules, standards and conformity measures; establish guidelines for laboratories to become conformity assessment bodies and issue conformity certificates.

(https://law.asia/, February 27, 2025)

DoT and CDRI Unveil Roadmap to Strengthen India's Telecom Resilienc

The Department of Telecommunications (DoT), in collaboration with the Coalition for Disaster Resilient Infrastructure (CDRI), today launched a comprehensive report on Disaster Risk and Resilience Assessment Framework (DRRAF), marking a major step towards strengthening India's telecom sector against disasters. The report is part of a comprehensive study on National and Sub-national Disaster Risk & Resilience Assessment for the Telecommunication Sector by CDRI. The study was conducted across five states—Assam, Odisha, Tamil Nadu, Uttarakhand, and Gujarat—focusing on disaster risks and resilience strategies specific to the telecom sector. DoT facilitated the necessary coordination with State Governments, Telecom Service Providers, and Infrastructure Providers to arrange the data required for the study. r. Neeraj Mittal, Secretary (Telecom) & Chairman, Digital Communications Commission (DCC), emphasized that building telecom resilience is a national priority. He reiterated DoT's commitment for ensuring seamless connectivity prior, during, and after disasters, aligning with the UN's 'Early Warning For All by 2027' initiative. He called for coordinated action from Government agencies, telecom operators, and disaster man-

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agement bodies to ensure India's telecom infrastructure remains robust in the face of natural calamities.

(https://www.sarkaritel.com/, February 12, 2025)

Government Allocates ₹95,298 Crore to Telecom & IT Sectors

Finance Minister Nirmala Sitharaman on Saturday, February 1, proposed ₹95,298 crore for the information technology and telecommunications sectors. While presenting the Union Budget for 2025-26, Sitharaman also proposed to reduce the basic customs duty on carrier-grade ethernet switches from 20% to 105, bringing the component at par with non-carrier-grade ethernet switches. The compensation the government pays telecom service providers for creating infrastructure saw a substantial jump — ₹28,400 crore, up from ₹13,700 crore last year. In the full Budget for 2024-25, presented in July 2024, the Centre announced a substantial allocation of ₹1.28 lakh crore for telecom projects and public sector firms under the Department of Telecommunications, with a significant emphasis on BSNL.

(By Vijay Anand, https://www.cnbctv18.com/, February 01, 2025)

PMO Orders Mandatory Biometric Aadhaar Verification for SIM Sales: Report

The Prime Minister's Office (PMO) has reportedly directed the Department of Telecommunications (DoT) to enforce mandatory biometric Aadhaar verification for all new mobile connections across India. The move is aimed at preventing misuse of telecom resources and ensuring stricter compliance among SIM card sellers, according to a report by ET. The directive, issued during a recent telecom sector review meeting, calls for stern action against vendors flouting the rules. The DoT, leveraging AI-based tools, is working with law enforcement agencies (LEAs) to identify and penalise offenders, according to the report. The DoT was told to ensure that no SIM card be issued without biometric Aadhaar verification and was also asked to closely collaborate with law enforcement agencies (LEAs) to penalise mobile fraudsters.

(By Kripa B, https://telecomtalk.info/, January 15, 2024)

Adani Group under DoT Scanner on Delayed 5G Rollout, may Surrender Spectrum

The Adani Group may be facing scrutiny from the Department of Telecommunications (DoT) for its delay in rolling out 5G telecom services more than two years after acquiring a unified telecom licence. According to a report by Moneycontrol, the government has issued multiple notices to Adani Data Networks, a subsidi-

Reliance Jio, Bharti Airtel and Vodafone Idea jointly lost 2.6 crore customers due to a 10-26 % price hike.

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ary of Adani Enterprises, regarding its non-compliance with minimum rollout obligations (MRO) for 5G services. Adani Data Networks acquired 400 MHz in the 26 GHz band for Rs 212 crore during the July 2022 spectrum auctions, with allocations including 100 MHz each in Gujarat and Mumbai, and 50 MHz each in Andhra Pradesh, Rajasthan, Karnataka, and Tamil Nadu. Although the company holds a unified licence for telecom and internet services, it initially intended the spectrum for building captive private 5G networks to enhance its business operations.

(Vasudha Mukherjee, https://www.business-standard.com/, January 14, 2024)

TRAI New Rule Mandates Telcos to Issue Recharge Voucher for only Voice, SMS

Telecom regulator TRAI on Monday amended tariff rules to mandate mobile service providers to issue a separate plan for voice calls and SMS for customers not using data. The service provider shall offer at least one Special Tariff Voucher exclusively for Voice and SMS with validity period not exceeding three hundred and sixty-five days," the Telecom Regulatory Authority of India (TRAI) said in the Telecom Consumers Protection (Twelfth Amendment) Regulations, 2024. During the consultation process, TRAI came across various views, including several senior citizens, families having broadband at homes etc may not need recharge plans bundled with data for their mobile phones. In an explanatory note, TRAI said that it is of the view that a separate STV for voice and SMS, in addition to existing data-only STV and bundled offers, shall be mandated.

(https://www.zeebiz.com/, December 30, 2024)

DoT seeks Clarity from TRAI on Encashing Telcos' BGs to Recover Spam Penalties

The communications ministry has sought clarity from the telecom regulator on which licence clauses can be invoked to encash telcos' bank guarantees (BGs) to recover fines related to spam, or unsolicited communications. The communications ministry is seeking clarity from TRAI on which licence clauses can be invoked to encash telcos' bank guarantees for recovering fines related to spam. The ministry's future action depends on TRAI's response, highlighting a regulatory gap with no specific clause addressing unsolicited commercial communications. A few months ago, in an unprecedented move, the Telecom Regulatory Authority of India (TRAI) urged the government to encash telecom operators' BGs to recover penalties imposed for their failure to tackle spam effectively.

(By Kiran Rathee, https://telecom.economictimes.indiatimes.com/, December 31, 2024)

Telcos Investment Recovery in Limbo as Tariff Hike Backfires, Price War with Satcom Services Likely in 2025

The country's private telecom operators face twin challenges on investment recovery in the New Year - customers leaving their network after tariff hikes and satellite players mainly Elon Musk's Starlink eyeing a chunk of their bread-and-butter data business. Private operators have invested around Rs 70,000 crore in telecom infrastructure and radio wave assets this year to expand the coverage of next generation 5G services which is one of the main highlights of 2024 for the sector. To recover investments and protect margins, private telcos resorted to tariff hikes in mid-year but that move backfired. Around 2 crore subscribers dropped their connections. Reliance Jio, Bharti Airtel and Vodafone Idea jointly lost 2.6 crore customers due to a 10-26 per cent price hike. Around 68 customers switched to state-run player BSNL which refrained from price hike. The loss-making PSU still offers generation-old 3G service and is on the path of rolling out 4G network across the country.

(https://economictimes.indiatimes.com/, December 28, 2024)

INDUSTRY UPDATE

ELECTRIC VEHICLE

Hero Electric's Bankruptcy: EV Pioneer Faces Insolvency Over Rs 301 Cr Debt

Hero Electric, the country's first electric scooter manufacturer, is undergoing insolvency resolution under the Insolvency and Bankruptcy Code (IBC) over Rs 301 crore debt. The resolution professional (RP) has invited bids from potential investors for the financially distressed company. The invitation for expressions of interest was issued on February 18, with a submission deadline of March 14. Following this, a final list of eligible bidders will be released on April 8. The final resolution plans must be submitted by May 13. Hero Electric entered insolvency proceedings in December 2024 due to a default of Rs 1.85 crore. The total admitted claims from creditors now exceed Rs 301 crore, according to documents reviewed by The Economic Times. Among these claims, Rs 82 crore is owed to major lenders, including Bank of Baroda, Kotak Mahindra Bank, South Indian Bank, and IDFC First Bank. These creditors hold 100 per cent of the voting rights in the Committee of Creditors (CoC), which will decide the company's fate — either restructuring or liquidation.

(https://www.business-standard.com/, By Rimjhim Singh, March 01, 2025)

MG Motor Eats into Tata Motors' EV Pie

JSW MG Motor India has dramatically increased its electric vehicle market presence, reporting that EVs now account for 78% of its total sales of 4,002 units in February 2025. This remarkable transformation comes as longtime market leader Tata Motors experiences a continued slide in its electric vehicle performance. The Windsor EV has emerged as the game-changer for JSW MG, helping the company more than double its EV contribution from just 35% in August 2024 to its current dominant position. Meanwhile, Tata Motors reported 5,343 EV units sold in February 2025, marking a 23% year-on-year decline from 6,923 units in February 2024 – its third consecutive month of decreasing EV sales.Tata Motors, which once commanded a 64% market share with 7,040 EV units in August 2023, has seen its monthly figures steadily erode despite its first-mover advantage and diverse portfolio including the Nexon EV, Punch EV, and Curvv EV. During the same period that Tata's numbers declined, Windsor sales climbed from 3,116 units in its October 2024 debut month to 3,785 units by December, helping JSW MG achieve record monthly sales of 7,516 vehicles.

(By Angitha Suresh, https://www.autocarpro.in/, March 01, 2025)

New Car Registrations: -2.6% in January 2025; Battery-electric 15% Market Share

In January, battery electric vehicles (BEVs) made up 15% of the market share, up from the low baseline of comparison of 10.9% in January 2024. Hybrid-electric vehicles surged ahead, commanding nearly 34.9% of the market and becoming again the first most preferred choice among EU car buyers. Meanwhile, the combined market share of petrol and diesel cars fell to 39.4% in January 2025, down from 48.7% one year ago. Three of the four largest markets in the region, together accounting for 64% of all battery-electric car registrations, recorded robust double-digit gains: Germany (+53.5%), Belgium (+37.2%), and the Netherlands (+28.2%), while France saw a slight decline of -0.5%. In January, new EU registrations of hybrid-electric cars increased by 18.4%, boosted by significant growth in the four biggest markets: France (+52.2%), Spain (+23.5%), Germany (+13.7%), and Italy (+10.6%). This led to 290,014 units registered in the first month of 2025, representing 34.9% of the EU market share.

(https://www.acea.auto/, February 25, 2025)

IPO-bound Ather Energy Opens New Facility to Boost R&D and Testing Capability

IPO-bound electric two-wheeler maker Ather Energy Ltd on Thursday announced the expansion of its research and development and testing capabil-

INDUSTRY UPDATE

Rajasthan government has decided to establish a ₹200 crore e-vehicle promotion fund under its Electric Vehicle Policy-2022.

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ities with a third facility in Bengaluru. Spread across 38,692 sq.ft., the facility is designed to validate durability and safety across vehicle, system, and component levels, including on-road endurance. It also houses dedicated labs for structural durability, battery testing, electrical and electronics reliability, and vehicle environment testing, the company said in a statement. In FY24, the company spent about ₹238 crore, or about 15% of its revenue from operations, in R&D. About 46% of Ather's total workforce is dedicated to R&D. Ather's new facility has equipment for targeted testing of systems like suspension frames, enabling early bug detection, faster design optimization, and lower change costs.

(By Priyamvada C, https://www.livemint.com/, February 27, 2025)

TATA.ev to Add 2 Lakh New Charging Points by 2027

Tata.ev has announced to add 2 lakh new charging points by 2027. The company has already sold 2 lakh EVs and is aiming to doubling the number of available charge points to 4 lakh by 2027. Tata.ev partnered with Tata Group companies to introduce seamless private/home charging solutions and has kick started public charging infrastructure in and around cities. This will help faster EV adoption, encouraging early adopters to switch to EVs. To drive the next phase of growth, Tata.ev launched its 'Open Collaboration' framework in 2023, forging strategic partnerships with Charge Point Operators (CPOs) and Oil Marketing Companies (OMCs). This collaboration focused on expanding charging infrastructure across key hotsports, particularly along highways, to ensure seamless long-distance mobility. As a result, the number of public charging points in India has more than doubled in just 15 months, surpassing 18,000 chargers.

(https://www.carlelo.com/, February 15, 2025)

FAME India Phase-II Supports Over 16 Lakh Electric Vehicles, Boosting EV Manufacturing

As India doubles down on the local manufacturing of electric vehicles (EVs), the Faster Adoption and Manufacturing of (Hybrid and) Electric Vehicles in India (FAME India) Scheme Phase-II has supported more than 16.14 lakh EVs, the government said on Thursday. FAME India Phase II scheme was implemented for a period of five years from April 1, 2019 with a total budgetary support of Rs 11,500 crore. The scheme incentivised e-2Ws, e-3Ws, e-4Ws, e-buses and EV public charging stations. Under the FAME India Phase-II Scheme, as on December 31, 2024, at least 16,14,737 EVs have been supported, said Minister of State for Steel and Heavy Industries, Bhupathiraju Srinivasa Varma, in a written reply in the Rajya Sabha. It includes 14,28,009 two-wheelers, 1,64,180 three-wheelers and 22,548 four-wheelers. The Ministry of Heavy Industries has implemented several schemes to strengthen the EV ecosystem and accelerate adoption of electric vehicles in the country.

(https://www.timesnownews.com/, February 13, 2025)

Rajasthan Government to Offer Subsidy Worth Rs 200 Crore on EVs

In a major decision to push electric mobility in the state, the Rajasthan government has decided to establish a ₹200 crore e-vehicle promotion fund under its Electric Vehicle Policy-2022. The initiative, aligned with the FAME-2 (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) guidelines, aims to encourage the adoption of electric vehicles (EVs) by offering State GST reimbursements and one-time grants to buyers of EVs equipped with modern battery technology. The subsidy applies to vehicles purchased on or after September 1, 2022 and registered in Rajasthan. However, eligibility is restricted to vehicles purchased within the state. According to Joint Transport Commissioner Jagdish Prasad Bairwa, vehicle manufacturers registered under FAME-2 must first enrol on the state's transport department portal to qualify for the subsidy. Once registered, manufacturers must sub-

INDUSTRY UPDATE

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mit details of their EV models, including battery type and capacity, following FAME-2 guidelines.

(https://www.ndtv.com/, February 13, 2025)

Uno Minda Takes Full Control of EV Joint Venture in Rs 195 Crore Strategic Acquisition

Uno Minda Limited announced today its plans to acquire complete ownership of its electric vehicle joint venture by purchasing the remaining 49.9% stake from German partner FRIWO Geratebau GmbH. The Rs 195 Crore transaction includes the acquisition of FRIWO's stake in UnoMinda EV Systems Pvt Ltd (UMEV), as well as intellectual property rights, know-how, and R&D capabilities related to e-drive technologies from FRIWO's facilities in Germany and Vietnam. The deal is expected to conclude by the end of Q1 FY26. UMEV, established in December 2021, has developed a portfolio of electric vehicle components including on-board and off-board chargers, battery management systems, and motor and vehicle control units. The company currently holds a substantial order book in the growing Indian electric two-wheeler market. The strategic move comes as India's electric two-wheeler market is projected to see significant growth over the next five years. The acquisition will also enable Uno Minda to explore export opportunities beyond the domestic market.

(By Sarthak Mahajan, https://www.autocarpro.in/, February 14, 2025)

India's Bold Electric Mobility Revolution: Budget Boost Sparks Change

India is charging ahead with a thrilling boost to its electric mobility initiative, as unveiled in the Union Budget 2025-26. With a funding leap of over 20%, the allocation for electric mobility schemes surged from Rs 4,434.92 crore to an impressive Rs 5,322 crore. This progressive enhancement aims to transform road transport into a sustainable powerhouse, phasing out fossil fuels and nurturing the burgeoning electric vehicle (EV) industry. Leading the charge is the PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) Scheme, witnessing a staggering increase of over 114% to Rs 4,000 crore. This ambitious program, launched in September 2024, promotes various electric vehicles and the installation of public charging stations. Another key player, the Scheme to Promote Manufacturing of Electric Passenger Cars in India (SMEC), doubled its budget to Rs 12 crore, fueling India's potential to compete globally in EV manufacturing and creating countless job opportunities.

(By Clara Maxfield, https://motopaddock.nl/, February 01, 2025)

EV Battery Production Gets Boost, BCD Exemption on 35 Additional Goods

To support the demand for electric vehicles in the country, the union minister announced the addition of 35 capital goods to the list of materials exempted from Basic Custom Duty (BCD). These exemptions are aimed at bringing down the cost of manufacturing EV batteries in India. Specifically, it provides exemption for crucial raw materials like scrap from

lithium-ion batteries, Cobalt powder, waste cobalt, lead, zinc, along with 12 other critical minerals. The initiatives presented in Budget 2025 are anticipated to benefit local manufacturing, leading to increased job opportunities within the industry. With the rising demand for electric vehicles in the country, these steps aim to establish India as a strong contender in the international EV market.

(Amulya Raj Srinet, https://www.ndtv.com/, February 01, 2025)

Hero MotoCorp's Electric Vehicle Business to Become Fully Independent Unit

Hero MotoCorp Ltd announced on Friday that it would move the electric vehicle and Emerging Mobility Business Unit (EMBU) into a fully independent unit from February 1. The EMBU was created by the automaker in 2019 to drive innovations in emerging mobility, including electric vehicles. The EV & Emerging Mobility Business Unit will transition to a fully independent and empowered unit, "leading the EV revolution and next-generation mobility under the mentorship of the Executive Chairman Pawan Munjal," the company said in an exchange filing. "As part of this strategic shift, the Product Development teams across EMBU, Hero Tech Centre Germany (TCG) and Hero Centre for Innovation and Technology (CIT) will work in synergy to set new industry benchmarks."

(By Kiran Murali, https://www.autocarpro.in/, January 31, 2025)

Hyundai Motor India Expects Passenger EV market to Double in 2 Years

Hyundai Motor India, which is set to launch its Creta Electric SUV at the Bharat Mobility Global Auto Expo, expects the passenger electric vehicles' volume in India to double in the next two years from around 106,000 units, owing to a series of launches by major original equipment manufacturers in 2025. Hyundai India's Chief Operating Officer Tarun Garg says an improving ecosystem may help passenger EV penetration touch 17 per cent by 2030 from the current 2.4 per cent. The company is planning to come out with three more EV products after the Creta EV. The carmaker also expects its production capacity to touch 1.1 million by 2028, from the current 824,000, as the Pune plant, with phase I capacity of 170,000 units, will be operational in the fourth quarter of 2025. The second phase of 80,000 units will begin after that. Creta Electric will be competing with the Maruti Suzuki e-Vitara, Mahindra BE 6, Tata Curvv, MG ZS EV, and Toyota Urban Cruiser EV, among others.

(By Shine Jacob, https://www.business-standard.com/, January 13, 2025)

TCS Global Study finds 64% of Consumers Likely to Choose EV as Next Vehicle

More than 6 out of 10 consumers in different parts of the world, including India, are likely or very likely to consider an electric vehicle for their next purchase, although 60 per cent of them considered charging infrastructure as a major challenge, according to a study. The global study by Tata Consultancy Services surveyed over 1,300 anonymous respondents across USA, Canada, UK, Ireland, Belgium, Denmark, Finland, France, Germany, Netherlands, Norway, Sweden, Switzerland, China, India, Japan, Australia and New Zealand, found that 56 per cent of them were ready to pay up to USD 40,000 (nearly Rs 35 lakh) for an electric vehicle (EV). The respondents for the study — TCS Future-Ready eMobility Study 2025 — included transport manufacturers, charging infrastructure players, fleet adopters, consumers and EV adoption influencers, TCS said in a statement. According to the survey, 90 per cent of manufacturers believed that improvements in battery technology will enhance range and charging speed and will significantly impact the design and performance of EVs in the near term compared to other technological advancements.

(https://www.moneycontrol.com/, January 14, 2025)

Global Electric Vehicle Sales up 25% in Record 2024

Global sales of fully electric and plug-in hybrid vehicles rose by a quarter last year to over 17 million cars, helped by a fourth consecutive month of record sales in December as China continued to grow and Europe stabilised, data showed on Tuesday. Incentives and emission targets pushed EV sales in China and aided Britain in overtaking Germany as Europe's biggest battery-electric market in 2024, research firm Rho Motion said. Electric car makers look into 2025 as a transformative year as China's sales growth slows, new emissions targets are setting off in Europe, and questions surround potential U.S. policy changes under the incoming Trump administration. Global sales of fully electric vehicles and plug-in hybrids rose 25.6% year-on-year to 1.9 million in December, albeit slowing for a second consecutive month, the Rho Motion data showed.

(By Alessandro Parodi, https://www.reuters.com/, January 14, 2025)

Electric Vehicle Prices Drop by Great Margins, What is Leading to Heavy Discounts?

Electric Vehicles costs are dropping with heavy discounts. The price drop is due to several contributing factors like surplus stock, reduced component expenses, and Corporate Average Fuel Economy (CAFE) standards. A TOI report stated that these price fluctuations are happening for both two-wheelers and electric cars. Exchange incentives can go up to Rs 15,000, while trade discounts range from Rs 3,000 to Rs 5,000. Car manufacturers are taking on most of these discounts, while dealerships are adding a lesser amount. Analysts link the discounts to remaining holiday season offers and surplus stock from an overproduction of EVs. Price drops can be seen on e-commerce platforms such as Flipkart where discounts on electric two-wheelers range from Rs 2,500 to Rs 5,000. The Ather electric scooters are providing

heavy discounts as well, with the Rizta model having discounts ranging from Rs 3,000 to Rs 6,700, and the 450 model from Rs 5,000 to Rs 7,000.

(https://www.msn.com/, December 31, 2024)

Customer Data from 800,000 Electric Cars and Owners Exposed Online

Volkswagen's automotive software company, Cariad, exposed data collected from around 800,000 electric cars. The info could be linked to drivers' names and reveal precise vehicle locations. Terabytes of Volkswagen customer details in Amazon cloud storage remained unprotected for months, allowing anyone with little technical knowledge to track drivers' movement or gather personal information. The exposed databases include details for VW, Seat, Audi, and Skoda vehicles, with geo-location data for some of them being as precise as a few centimeters. Access to the car data was possible due to Cariad's incorrect configuration in two IT applications, a company representative told BleepingComputer. Cariad was informed on November 26 of the issue by the Chaos Computer Club (CCC), the largest organization of ethical hackers in Europe that for more than 30 years has promoted security, privacy, and free access to information.

(https://www.bleepingcomputer.com/, December 28, 2024)

Andhra Pradesh EV Policy Targets Full EV Fleet Electrification

The Andhra Pradesh government has announced the Sustainable Electric Mobility Policy 4.0, which is designed to make the state a centre for electric vehicle (EV) innovation and production. Covering the period from 2024 to 2029, the policy aims to enhance the slow uptake of EVs and expand the local manufacturing base. Recent data indicates that out of approximately 1.78 crore vehicles in Andhra Pradesh, only about 1.3 lakh are battery electric vehicles (BEVs), and

construction world.in

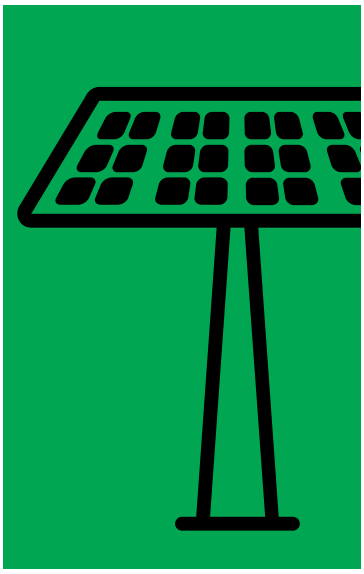
a mere 817 are strong hybrid EVs. The state currently has 601 public charging stations, distributed at an average of one station every 205 kilometres. This scarcity underlines the critical need for a more robust infrastructure to support electric mobility. The policy is set to significantly boost EV adoption by fostering collaboration among key stakeholders, including public transportation providers, private fleet operators, and charging infrastructure developers.

(By Aryaman Raghuvanshi, https://www.electronicsforyou.biz/, December 13, 2024)

Delhi EV Policy Woes: Registrations Drop in Capital while Other States Grow

Delhi has emerged as the only major state or union territory that saw a sharp decline in electric vehicle (EV) registrations this year, despite the government extending its EV policy until March 2025. Registrations in the national capital slumped from 1,435 units in January to just 220 in November, a staggering 85 per cent fall. In contrast, other major EV markets have reported growth. Sales in Maharashtra rose from 1,297 units in January to 1,344 in November, marking a 3 per cent increase, while Karnataka experienced an 18 per cent jump, with sales climbing from 1,121 units in January to 1,333 in November. Sector experts say that lack of clarity, and unannounced halts in the policy have deterred customers from buying EVs in Delhi. The Delhi Electric Vehicle (EV) Policy 2020 officially expired in August 2023 but has remained in force through extensions. In November, Delhi Chief Minister Atishi announced that subsidies and road tax exemptions would be reinstated for vehicles purchased on or after January 1.

(https://www.business-standard.com/, December 17, 2024)



DEFENSE & SOLAR ENERGY

Cabinet Nod for Draft Guidelines on Floating Solar Power Projects

The draft 'Guidelines on Development of Floating Solar Power Plants' cleared by the Kerala Cabinet on Thursday envision the creation of district-level 'banks' of potential sites and — for prospective developers — three different modes for processing applications and a single-window system for speedy implementation. he guidelines, which complement the Solar Energy Policy, which is already in place, are designed to help Kerala fully tap the potential of reservoirs, backwaters and even water-filled quarries in 'hosting' floating solar projects. The guidelines have been formulated with the concept that floating solar projects can help Kerala achieve the target of 3 gigawatts (GW) in renewable energy capacity. The Agency for New and Renewable Energy Research and Technology (ANERT) is designated as the coordinating agency for floating solar projects in the State.

(https://www.thehindu.com/, February 27, 2025)

Tata Power Shares in Focus after Solar Biz Bags Rs 632 Cr Order from SECI

Shares of Tata Power will be in focus on Friday after the company announced that its solar manufacturing arm, TP Solar, has secured an order worth Rs 632 crore to supply 292.5 MWp solar modules to the Solar Energy Corporation of India (SECI). This order, awarded under the CPSU Scheme Tranche-III, involves the delivery of high-quality DCR (Domestic Content Requirement) modules to a site in Ramagiri, Andhra Pradesh. The project is part of SECI's larger 400 MWp tender, which was subject to a competitive bidding process followed by an e-Reverse Auction. TP Solar secured the supply of 292.5 MWp out of the total 400 MWp DCR Modules. The preferred delivery timeline for the project is between October 2025 and January 2026, with a span of four months. According to Trendlyne, the consensus recommendation from 21 analysts for Tata Power Company is 'hold'. With 11 as 'strong buy' and 'buy' ratings, one as 'hold' and others as 'sell' and 'strong sell' stance.

(https://economictimes.indiatimes.com/, February 27, 2025)

NTPC Makes 300 MW Shambu ki Burj-2 Solar Project Operational

State-owned power giant NTPC on Saturday said NTPC Green Energy(NGEL) has made its 300 MW Shambu ki Burj-2 Solar PV Project fully operational with the beginning of electricity supply from the final capacity of 18.32 MW. With this, the total installed and commercial capacity of NTPC group has reached 77,411.50 MW, a regulatory filing said. Following the commissioning, the fourth and final 18.32 MW capacity of the 300 MW Shambu ki Burj-2 (Kolayat) Solar PV Project in Bikaner, Rajasthan, has been declared commercially operational effective from 00:00 hours on March 1, 2025, according to the filing. The first part capacity of 150 MW, the second part capacity of 98.78 MW, and the third part capacity of 32.90 MW has already been declared commercially operational from 00:00 hours on September 29, 2022, 23:00 hours on September 30, 2024, and 00:00 hours on October 31, 2024, respectively.

(https://money.rediff.com/, February 26, 2028)

Tata Power Unveils India's Largest Single-Location Solar Manufacturing Facility in Tamil Nadu

TP Solar Ltd, the solar manufacturing arm of Tata Power, recently inaugurated its state-of-the-art 4.3 GW solar cell and module manufacturing facility in Tirunelveli, Tamil Nadu. The facility was officially opened by the Chief Minister of Tamil Nadu, M.K. Stalin, marking a significant milestone in Tata Power's renewable energy journey. The new 4.3 GW solar cell and module manufacturing plant is India's largest single-location solar manufacturing facility. Equipped with cutting-edge TOPCon (Tunnel Oxide Passivated Contact) and Mono Perc technologies, the plant ensures the production of

INDUSTRY UPDATE

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high-efficiency solar cells and modules. Designed to meet India's growing renewable energy demand, it will produce high-efficiency solar cells and modules, contributing significantly to the country's clean energy transition. A solar module is a device in which several solar cells are connected to generate more power than a single solar cell.

(https://swarajyamag.com/, February 14, 2025)

Safran and Bharat Electronics Limited Forge a Partnership in the Defense Sector

Navratna Defence PSU Bharat Electronics Limited (BEL) and Safran Electronics & Defense, France, announced today the signing of a partnership to create a joint venture for the manufacturing, customisation, sale and maintenance of HAMMER (Highly Agile Modular Munition Extended Range) Smart Precision Guided Air-to-Ground Weapon in India. The Memorandum of Understanding (MoU) was signed by Mr K V Suresh Kumar, Director (Marketing), BEL, and Mr Alexandre Ziegler, Executive Vice President, Safran Electronics & Defense, in the presence of Mr Manoj Jain, Chairman and Managing Director, BEL, Mr Franck Saudo, CEO, Safran Electronics & Defense and other senior executives of both companies. The proposed joint venture between BEL and Safran Electronics & Defense will be a major step toward strengthening India's capabilities in defense manufacturing and achieving self-reliance in advanced weapon systems. It will localise HAMMER production, enable development of future variants and support the Government of India's Atmanirbhar Bharat' initiative by reducing import dependence.

(https://www.safran-group.com/, February 11, 2025)

DGTR Proposes Anti-Dumping Duty on Solar Glass Imports from China and Vietnam

Directorate General of Trade Remedies (DGTR) has recommended anti-dumping duties on textured tempered glass imports from China and Vietnam, a key material used in solar panel manufacturing. The proposal suggests a five-year duty structure, following an investigation launched in February 2023. Unlike traditional tariff measures, the DGTR has introduced a reference rate system to regulate the landed value of solar glass imports. Under this system, authorities will impose duties only when import prices drop below the reference threshold. They will calculate the duty as the difference between the actual landed value and the reference rate. The investigation was prompted by a complaint from domestic manufacturers, led by Borosil Renewables. The findings revealed a dramatic increase in solar glass imports, escalating from 29,980 metric tons in 2020-21 to 7,79,017 metric tons during the investigation period. Chinese imports surged from 29,324 to 6,59,732 metric tons, while imports from Vietnam grew from 656 to 1,19,285 metric tons. In contrast, imports from other countries dropped significantly from 1,28,819 to 16,537 metric tons.

(https://chemindigest.com/, February 15, 2025)

Private Sector Must Lead Defence Manufacturing Sector: Rajnath Singh

Defence Minister Rajnath Singh on Wednesday said India is going through a revolutionary phase of transformation, and the country's fighter jets, missile systems, naval vessels are not only protecting our borders but are also becoming the center of attraction for the entire

Finance minister Nirmala Sitharaman has allocated Rs 48,396 crore towards the power sector, including new and renewable energy, in her Budget for the financial year 2025-26.

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world. He said this at the indigenisation event and the valedictory ceremony of Aero India 2025 here. Highlighting the adoption of indigenously manufactured defence products by the country's armed forces, he said nothing less than the best can be allowed when it comes to national security. Mr Singh said, the country today is standing at such a juncture where fighter jets, missile systems, naval vessels, or many such equipment and platforms, are not only protecting India's borders, but are also becoming the center of attraction for the entire world.

(https://www.ndtv.com/, February 13, 2025)

Allocation to Power Sector up 30%, Rooftop Solar Plan gets Big Push

Finance minister Nirmala Sitharaman has allocated Rs 48,396 crore towards the power sector, including new and renewable energy, in her Budget for the financial year 2025-26. The outlay is an increase of 30 percent over the previous year's allocation of Rs 37,143 crore (revised estimate) and 22 percent over the budget estimate of Rs 39,602 crore. Of the Rs 48,396 crore, the power ministry received Rs 21,847 crore and the ministry of new and renewable energy (MNRE) Rs 26,549 crore, the Budget document tabled in the Parliament on February 1 shows. The biggest share of Rs 16,021 crore from the power ministry funds went to the revamped distribution sector scheme, a key component of which is prepaid smart metering, system metering, and distribution infrastructure upgrades. The scheme received Rs 12,665 crore (RE) in the FY25 Budget.

(By Sweta Goswami, https://www.moneycontrol.com/, February 01, 2025)

Govt Allocates ₹1,500 Crore to Solar Power Grids

The Union Budget of 2025 on Saturday (February 1) has allocated ₹1,500 crore to the solar power (grid) segment, reinforcing India's commitment to renewable energy transition. Last year, the Finance Minister allotted over ₹8,000 crore to the segment, significantly up from ₹4,757 crore earmarked in the FY23-24 revised estimate. In recent years, the country's solar power sector has experienced rapid growth, aligning with the government's agenda for sustainable development and energy security. In 2022-23, the allocation surged to ₹3,304.03 crore, a record high compared to ₹2,369.13 crore in 2021-22. Even in 2020-21, when the allocation stood at ₹2,449.65 crore, it was already a significant amount. These allocations mark a transformative period in financial planning and resource distribution, with each year setting a new benchmark for future growth.

(By Ashutosh Patki, https://www.cnbctv18.com/, February 01, 2025)

PM-Surya Ghar Crosses 8.5 Lakh Solar Rooftop Units as India Targets 1,800 GW Green Energy by 2047

PM-Surya Ghar, India's flagship solar initiative, has crossed 8.5 lakh rooftop installations, marking significant progress towards the goal of powering 10 million households with solar energy, according to Minister of New and Renewable Energy, Pralhad Joshi. The government aims to achieve 500 GW of renewable energy capacity by 2030, with a long-term vision of 1,800 GW by 2047. The target would position India as a global leader in renewable energy while meeting its energy needs and contributing to global decarbonisation efforts. The minister said that India's renewable energy capacity has already increased from 75 GW in 2014 to over 220 GW showing notable growth in the sector.

(https://www.zeebiz.com/, January 31, 2025)

Naval Combatants to Strengthen India's Defence Leadership: PM Modi

Prime Minister Narendra Modi Tuesday said the commissioning of three frontline naval combatants will strengthen India's efforts towards being a global leader in defence and augment its quest towards self-reliance. Modi will

dedicate the three combatants -- INS Surat, INS Nilgiri and INS Vaghsheer -- to the nation on their commissioning at the Naval Dockyard in Mumbai on Wednesday. "Tomorrow, 15th January, is going to be a special day as far as our naval capacities are concerned," he said on X. INS Surat, the fourth and final ship of the P15B Guided Missile Destroyer Project, ranks among the largest and most sophisticated destroyers in the world, officials said. It has an indigenous content of 75 per cent and is equipped with the state-of-the-art weapon-sensor packages and advanced network-centric capabilities. INS Nilgiri, the first ship of the P17A Stealth Frigate Project, has been designed by the Indian Navy's Warship Design Bureau and incorporates advanced features for enhanced survivability, seakeeping, and stealth, reflecting the next generation of indigenous frigates, they said.

(https://www.business-standard.com/, January 14, 2025)

Defence Minister Rajnath Singh Highlights India's Defence Exports Crossing Record Rs 21,000 Crore Over Decade During Mhow Visit

Defence Minister Rajnath Singh on Monday said India's defence exports have crossed a record Rs 21,000 crore from Rs 2,000 crore a decade ago. The Defence Minister accompanied by Chief of Army Staff, General Upendra Dwivedi, visited the training institutes of the Indian Army in Mhow on a two-day official visit. The visit included engagements at the Army War College (AWC), Infantry School, and the Military College of Telecommunication Engineering (MCTE). Senior officers of the Indian Army were also present during the visit. On Monday, Singh visited Army War College, where he was received by Lieutenant General HS Sahi, Commandant, Army War College. The Commandant briefed Singh about the role and significance of the institution in shaping future military leaders. Addressing the officers of Mhow Garrison, Singh commended the relentless dedication of the Indian Army towards safeguarding the nation's borders.

(https://www.freepressjournal.in/, December 30, 2024)

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India Commissions Russian-Built Warship amid Enduring Ties with Moscow

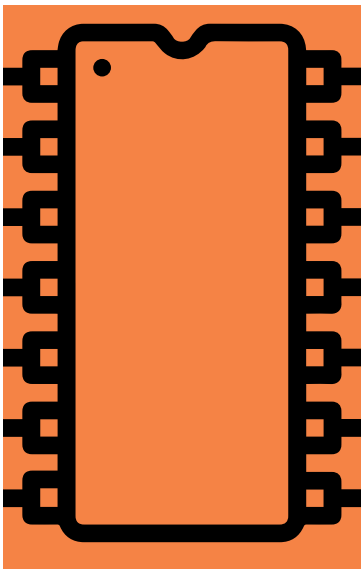
Eleven years after its keel was laid, India has taken receipt of a 3,900-ton guided missile frigate from Russia. Indian Defence Minister Rajnath Singh called it a "significant milestone in the longstanding friendship between India and Russia," with the two nations bound together by "mutual trust and a special and strategic privileged partnership." The ceremony for this Project 1135.6-class warship, christened INS Tushil, took place in a wintry Yantar Shipyard in Kaliningrad earlier this month. The warship was originally destined to join the Russian Navy, but it was diverted to Delhi after India contracted for two frigates in October 2016. Sister ship INS Tamala is due for handover in the first quarter of 2025. India already has six frigates of this Talwar class in service – three built in the Baltiysky shipyard, St. Petersburg, and three in Kaliningrad.

(By Gordon Aurthur, https://www.defensenews.com/, December 19, 2024)

India's Defence PSUs Target Rs 2,100 Crore in Exports for FY 2024-25, Reducing Import Dependence and Boosting Self-Reliance

As India strives to reduce its dependence on imports and strengthen strategic autonomy, nine of the country's 16 defence Public Sector Undertakings (DPSUs) have set ambitious export targets for Financial Year (FY) 2024-25. Together, these DPSUs aim to export military products worth Rs 2,100 crore, with Hindustan Aeronautics Ltd (HAL) leading the charge with a projected export turnover of Rs 590 crore. In FY 2023-24, India's total defence exports surged to Rs 21,083 crore, up from Rs 15,918 crore in FY 2022-23, reflecting a steady increase in the country's defence manufacturing capabilities. Of this, the private sector contributed approximately Rs 15,000 crore, while DPSUs accounted for Rs 6,000 crore, according to the Standing Committee on Defence report presented in Parliament.

(By Vansh Gupta, https://swarajyamag.com/, December 16, 2024)



CONSUMER ELECTRONICS

iPhone Parts Maker Murata Eyes Supply Chain Shifts Toward India

iPhone components maker Murata Manufacturing Co. is weighing whether to move some of its production capacity to India, reflecting a global realignment of the supply chain toward the world's most populous country. The Kyoto-based maker of multilayer ceramic capacitors sees growing demand in India and is running simulations for what it would take to dial up its pace of investment there, according to Murata President Norio Nakajima. Murata's components are found in almost all electronics, from Apple Inc. and Samsung Electronics Co. smartphones to Nvidia Corp. servers and Sony Group Corp. game consoles. The company has also helped put a NASA helicopter on Mars. Right now, it makes almost 60% of its MLCCs in Japan, but that proportion will likely fall closer to 50% in the years ahead, 63-year-old Nakajima said. Murata is the world's leading supplier of capacitors, which regulate the delivery of power to electric components.

(https://economictimes.indiatimes.com/, February 19, 2025)

India TWS Market Grows 14% YoY in 2024; Offline Shipments See Double Digit Growth

India's TWS market shipments rose 14% YoY in 2024, according to the latest research from Counterpoint's Consumer IoT service. The growth in shipments was driven by seasonal sales events, affordable offerings, and usage expansion towards various applications, coupled with broader channel availability. However, this period marked the market's slowest growth, indicating that it is slowly moving towards maturity. The contributing factors for this modest growth include fewer new product launches and the deceleration in the growth of first-time users. India's TWS devices witnessed significant improvements in sound quality, design innovation, and gaming-focused devices across various price bands, which helped the market reach over $1.3 billion in 2024. The budget segment INR 1,500-INR 2,000 ($17-$23) performed well, registering the highest growth of 52% YoY in 2024Popular OEMs such as HP, Poco, vivo, and IQOO also marked their entry in this price segment for the first time, along with portfolio expansion by Xiaomi. Due to the multiple offerings in this price segment, the brands have added premium features such as ANC, transparency mode, and better ergonomics to the device to compete in this segment.

(https://www.counterpointresearch.com/, February 11, 2025)

India's Hiring Up 31% in Dec, Led by Consumer Electronics, Manufacturing

India's hiring activity rose 31 per cent in December, driven by consumer electronics, manufacturing, and construction and engineering sectors, a report said on Wednesday. According to foundit insights tracker (fit), the country's hiring activity rose 12 per cent over the past six months, with a 31 per cent year-on-year increase in recruitment in December. The fit is a comprehensive monthly report analysing online job posting activity conducted by foundit.in. The report further said the growth in hiring is reflected across sectors, led by consumer electronics, manufacturing, and construction and engineering leading the charge with 60 per cent, 57 per cent, and 57 per cent YoY, respectively. Meanwhile, AI jobs in India surged 42 per cent over the past two years reaching 2,53,000 positions. Top skills include Python, AI/ML, data science, deep learning, SQL and software development. Additionally, expertise in specialised AI frameworks such as TensorFlow (15 per cent) and PyTorch (16 per cent) was highly sought after by employers, said the report.

(https://www.business-standard.com/, February 03, 2025)

Samsung to Locally Manufacture S25 Series of AI Smartphones in Noida Plant

South Korea's Samsung Electronics

INDUSTRY UPDATE

Co Ltd will locally manufacture its latest Galaxy S25 series of flagship AI smartphones at its Noida facility in India, a top company executive said. Indian engineers played a significant role in the development of the S25 series' AI features. The S25 series, equipped with the powerful Snapdragon® 8 Elite chipset, aims to enhance user experience with improved performance and AI capabilities. Samsung has three R&D centers in India and its Bengaluru research unit is its biggest outside South Korea. Park was speaking in San Jose shortly after Samsung announced a high-octane launch of its Galaxy S25 series of premium AI smartphones, including the Galaxy S25 Ultra, the Galaxy S25+ and Galaxy S25, at the Galaxy Unpacked event in the Silicon Valley.

(By Kalyan Parbat, https://economictimes.indiatimes.com/, January 22 2025)

Appliances, Display Business to Contribute 50% to India Topline in Next 3 Years: Samsung's J B Park

Consumer electronics major Samsung expects its appliances and display business to scale up substantially in India, contributing to half of the topline in the next three years, J B Park, President & CEO of Southwest Asia has said. The current penetration of consumer electronic products in India is still low, a major market for the South Korean Chaebol, however, it is expected to scale up, helped by factors such as the rise of the Indian economy and middle class. Samsung is aggressively expanding its play into the consumer electronics segment by democratising the latest features such as AI in the appliances and display segment (QLED and OLED TVs), which is helping it to gain significant market share in the premium segment. However, penetration of India's smartphone segment has matured and is slightly behind the developed countries, where people carry more than one device for their needs.

(https://economictimes.indiatimes.com/, January 22, 2025)

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The PC Market Closed Out 2024 with Slight Growth and Mixed Views on What 2025 Will Bring

PC shipments during the fourth quarter of 2024 grew 1.8% from the prior year with global volumes reaching 68.9 million shipments, according to preliminary results from the International Data Corporation (IDC) Worldwide Quarterly Personal Computing Device Tracker. For the full year, PC vendors shipped 262.7 million PCs, up 1% from 2023. Looking ahead to 2025, the PC industry has several tailwinds and headwinds, which makes for a challenging outlook and difficult demand planning. Though the market has been experiencing a slower return to growth, there was some room for optimism in Q4 as government subsidies in China led to better-than-expected performance within the consumer segment. Beyond that, the US and some European countries also showed strong performance due to end-of-year sale promotions, as well as enterprises continuing on the path of upgrading hardware before the end of support for Windows 10 which is scheduled for October 2025.

(https://www.idc.com/, January 09, 2025)

JVC Re-enters Indian TV Market Through License Pact with Super Plastronics

Japanese consumer electronics brand JVC is re-entering into the India TV market through a brand license agreement with Noida-based Super Plastronics Pvt Ltd (SPPL). Earlier, the Japanese brand had entered India's TV market in 2019 in partnership with Veira Group, an original equipment manufacturer (OEM) for consumer durables. Before that, JVC was having a technological partnership with Onida Electronics (formerly known as Mirc Electronics), which had launched colour televisions. In its latest innings, JVC has launched its range of premium smart QLED televisions through SPPL, which will be available exclusively on Amazon's e-commerce platform. SPPL, which already has a portfolio of five global brands, operating in the TV and ap-

pliances segment, which includes Thomson, Kodak, Blaupunkt, and White-Westinghouse (Trademark of Electrolux), will manufacture a JVC brand set for the Indian market.

(https://www.business-standard.com/, January 13, 2025)

Haier Set to Cross a Billion-Revenue Mark in 2024, Aims Rs 11,500 Cr Next Year

Haier Appliances India is set to cross the milestone of having a billion dollar revenue in 2024, helped by strong summers, festive season and ongoing trend of premiumisation, and expects Rs 11,500 crore revenue in 2025, its President NS Satish said on Thursday. Besides, the appliances and consumer electronics maker company, which has so far invested Rs 2,500 crore in India, has plans to set up a third manufacturing facility in the Southern part of the country and is in the process of finalising a location for that, he said. "2024 has been one of the best years we ever had, with a growth of 35 per cent. We will be a one billion company this year. Next year our target is Rs 11,500 crore," Satish told PTI. Satish is confident of closing 2024 with a revenue of Rs 8,900 crore. Haier Appliances India follows the January-December cycle as its financial year.

(https://economictimes.indiatimes.com/, December 26, 2024)

Online Electronics Sale Quickens Through Shift to Quick Commerce

Consumers moved thousands of crores worth of electronics shopping online this year, including for large appliances, a trend strengthened by the entry of quick commerce into the segment. Online channels accounted for 34% of the consumer electronics sales in the country this year, up from 32% in 2023, shows data from market researcher NielsenIQ. This 2 percentage point increase means sales of around ₹11,000 crore have shifted to ecommerce from offline retail, the researcher said. Online sales of all electronic products including smartphones, laptops, TVs, air-conditioners and refrigerators are estimated to be Rs 2 lakh crore in calendar 2024, it said. Indian consumers are increasingly buying large appliances such as washing machines and ACs online as they are now comfortable to forsake touch and feel, NielsenIQ said.

(By Writankar Mukherjee, https://economictimes.indiatimes.com/, December 23, 2024)

Surfing on Wave of Premiumization, Appliances Industry Expects 15% Growth in 2025

The appliances and consumer electronics industry expects 10-15 per cent growth in 2025 on the back of premiumization trend, which is driven by rising incomes, changing preferences towards energy-efficient, and connected products with innovative features such as AI and increasing desire for global quality products. The year 2024 was transformative for the industry, in which it bounced back despite challenges such as rising raw material costs, price hikes, and supply chain disruptions, and displayed resilience by embracing technology and innovation. The industry, which contributes 0.6 per cent of the GDP, is witnessing a transformative shift towards premiumisation, increasing the average sale price (ASP), driven by rising income, and young demography with changing preferences. Besides, factors such as a growing economy, urbanisation, real estate growth, and increasing penetration into smaller markets like tier-III cities and further, will also help the industry grow.

(https://www.livemint.com/, December 31, 2024)

Global Semiconductor Revenue Up 17% YoY in Q3 2024; Automotive Sector Rebound Delayed

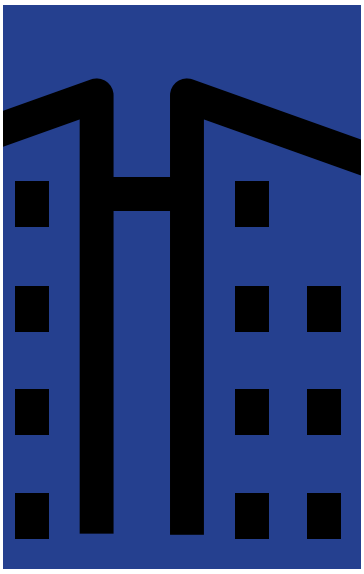
The global semiconductor industry's Q3 2024 revenue rose 17% YoY to reach $158.2 billion, largely fueled by demand for artificial intelligence (AI) technologies and a recovery in the memory sector. NVIDIA and AMD emerged as major winners in the AI sector, witnessing notable growth in their AI-related business segments. This trend is projected to persist with the introduction of new products in Q4 2024. In the memory sector, companies like Samsung, SK Hynix, and Micron saw double-digit YoY percentage increases in sales, bolstered by production cuts and rising demand for generative AI storage solutions. Q3 2024 marked a recovery period for semiconductor companies, after navigating a tough environment with weak consumer demand in H1 2023 by effectively managing their inventory levels. Looking ahead, demand for semiconductor content is expected to increase in Q4 2024, driven by the evolving computing requirements for AI chips and memory.

(https://www.counterpointresearch.com/, December 09, 2024)

LG India Worried About Competition from Parent Company

LG Electronics India is concerned that its South Korean parent may in the future start separate businesses in India which could compete with the former since there is no exclusivity arrangement between the two of them. India's largest home appliances maker highlighted the apprehensions in its draft prospectus filed with the market regulator on Friday for a planned initial public offering (IPO). The mega public issue will see LG Electronics sell a 15% stake in the Indian subsidiary to raise around ₹15,000 crore. The company expressed concerns about potential future competition from its South Korean parent and its subsidiary, Hi-M Solutek India, due to the lack of exclusivity agreements. LG India is also expanding with a new appliance rental service and a planned third factory in Andhra Pradesh.

(By Writankar Mukherjee, https://economictimes.indiatimes.com/, December 09, 2024)



MICRO, SMALL & MEDIUM ENTERPRISES

Need to Improve Access to Cheaper, Faster, Timely MSME Credit, says MSME JS Ateesh Singh

The MSME Ministry on Thursday urged financial institutions to improve on providing faster, cheaper and timely credit to micro, small and medium enterprises. Speaking at the FE Inclusive Conclave 2025, focusing on financial inclusion, Joint Secretary in the ministry Ateesh Singh called for improving the credit assessment system and leveraging technology to boost the lending process. "In the MSME ecosystem, what is needed is cheaper credit, faster credit and timely credit. That really is the mantra. So how do we improve on what we have? We should look at the credit process itself and how can we make it smarter and seamless and come up with zero defects and rejections," said Singh. The joint secretary also called for "looking at AI for fraud detection, customer experience, underwriting and more areas. It is for us to take advantage of it. Technology innovation will play a key role in improving the lending process among banks."

(https://www.financialexpress.com/, February 27, 2025)

TG Unveils First-Ever MSME Policy to Boost Small Enterprises

The Telangana government has taken a significant step towards strengthening the micro, small and medium enterprises (MSME) ecosystem by launching its first-ever MSME policy, aimed at empowering small and medium enterprises with resources, financial support and market access. As part of this initiative, Telangana signed an MoU with the National Stock Exchange (NSE) to facilitate the onboarding of Telangana-based MSMEs onto the NSE EMERGE platform—a dedicated marketplace for SMEs to raise capital and expand their business. The government is also implementing the national RAMP (Raising and Accelerating MSME Performance) programme to drive innovation and ensure financial sustainability. To create awareness about the initiative, the Telangana Industrial Health Clinic (TIHCL), the state's nodal agency for alternative MSME financing under the RAMP scheme, organised a workshop titled 'SME IPO – A Promising Avenue for Fundraising for SMEs' in collaboration with the department of industries, NSE and leading merchant bankers on Friday.

(https://www.deccanchronicle.com/, February 28, 2025)

Madhya Pradesh Targets 10K Startups in 5 Years: MSME Minister

MSME Minister Chaitanya Kumar Kashyap said on Tuesday (February 25) that the state has set a target of doubling the number of startups to 10,000 over the next five years and will set up a Rs 100 crore seed capital fund to promote new enterprises and innovations. Speaking at the Madhya Pradesh Global Investors Summit (MP GIS) 2025, Kashyap said that the state government has framed a new transparent policy for the MSME with emphasis on ease of doing business and time-bound sanctions of projects and delivery of incentives offered by the state. Elaborating on the new policy for startups, he said this encompasses every stage -- right from ideation to actual onground establishment, be it in manufacturing or in services sector. The state is encouraging the startups to focus on manufacturing and providing services, the minister said.

(https://www.zeebiz.com/, February 25, 2025)

Set Up Enterprise Development Centres to Promote MSMEs in Uttarakhand Study

The Uttarakhand government should establish Enterprise Development Centres (EDCs) to facilitate development of entrepreneurs in the MSME sector in the state, a study by MSME Export Promotion Council said. Nearly 25 per cent of over 58,000 registered micro, small and medium enterprises (MSMEs) in Uttarakhand are struggling for survival with the jobs of people employed in these units under threat, the study

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said. It suggested establishing EDCs to facilitate development of entrepreneurs into full-fledged, self-sustaining enterprises and provide technical know-how, managerial skill, filling up the knowledge gap to deal with the situation. MSME clusters at present are inadequately equipped in areas such as tool rooms, innovation centres, testing facilities etc, therefore these clusters should be encouraged to collaborate with companies having innovation infrastructure, MSME EPC Chairman D S Rawat said.

(https://www.theweek.in/, February 11, 2025)

Budget 2025: Export Promotion Mission to Boost MSME Exports

Finance Minister Nirmala Sitharaman presented four engines of development for Viksit Bharat - agriculture, micro, small and medium enterprises (MSMEs), investments and exports. Sitharaman, while presenting Budget 2025 today in the Parliament, defined exports as the fourth engine of growth, and said that an Export Promotion Mission, jointly driven by the Ministries of Commerce, MSME and Finance, will help MSMEs, which account for 45 percent of exports, tap into the export market. A digital public infrastructure, BharatTradeNet (BTN) for international trade, has been proposed as a unified platform for trade documentation and financing solutions. The finance minister also proposed various exemptions on duties and tariffs to boost exports. "India's seafood exports in the last financial year touched an all-time high of more than Rs 60,000 crore.

(https://www.itln.in/latest-news, February 01, 2025)

Boost for MSMEs, Classification Investment Cap to be Hiked 2.5 times

Finance Minsister Nirmala Sitharaman, while presenting Union Budget 2025 mentioned the government would prioritise the MSME (micro, small and medium enterprises) sector of the country. The government said that the investment limit for MSME classification to be made 2.5 times. Also, the turnover limit for MSME classification would be doubled. This would not only pace up the country's manufacturing sector, scale up and innovate the MSME sector, but would also provide employment opportunities for countless youth across the country. To help them achieve higher efficiencies of scale, technological upgradation and better access to capital, the investment and turnover limits for classification of all MSMEs will be enhanced to 2.5 and 2 times respectively. This will give them the confidence to grow and generate employment for our youth.

(https://www.indiatoday.in/, February 01, 2025)

MSMEs: Govt to Start National Manufacturing Mission to Boost Make in India

In her budget, Finance Minister Nirmala Sitharaman has said that the central government will set up a national manufacturing mission for small, medium and large industries to strengthen Make In India by providing policy support and execution. Sitharaman stated that investment and turnover limits for the classifi-

cation of micro, small and medium enterprises (MSMEs) enhanced. She added that with quality products, MSMEs are responsible for 45 per cent of India's exports. Notably, the cash-strapped MSME sector contributes about 30 per cent to India's gross domestic product (GDP). The union budget 2025-26 has introduced several enhancements to the credit guarantee cover for MSMEs and startups. For micro and small enterprises, the credit limit has been increased from Rs 5 crore to Rs 10 crore, with an expected additional credit of ₹1.5 lakh crore over five years.

(https://www.businessworld.in/, February 01, 2025)

Centre Begins Talks for Easing MSME Compliance Burden, Financing Woes

In a relief to the micro, small and medium business ecosystem in the country, the Centre began talks on reforms to reduce the compliance burden and provide regulatory relaxations for MSMEs in registration, mergers and acquisitions, as well as closures of business, along with a focus on addressing financing difficulties in the sector. Inter-ministerial consultations involving the ministries of MSME, corporate affairs, and law and justice have begun on the issue, with the talks also revolving around potential amendments to the Companies Act, 2013, to include MSMEs as defined under the MSME Development Act, 2006; decriminalize independent directors' conduct in MSMEs and ease financial results filing compliances, according to three people with direct knowledge of the development.

(By Manas Pimpalkhare, Dhirendra Kumar, https://www.livemint.com/, January 14, 2025)

MSME Sector Exports Witnessing Robust Growth in Recent Years

Indias Micro, Small, and Medium Enterprises (MSMEs) exports have witnessed a remarkable rise, increasing from ₹3.95 lakh crore in 2020-21 to ₹12.39 lakh crore in 2024-25, underscoring their critical role in boosting Indias economy and strengthening global trade. The total number of exporting MSMEs in 2024-25 has also increased considerably from 52,849 in 2020-21 to 1,73,350 in 2024-25. MSMEs demonstrated an exemplary growth trajectory, contributing 45.73% to exports in 2023-24, which increased to 45.79% by May 2024, highlighting their growing impact on Indias trade performance. The MSME sector in India has consistently demonstrated remarkable resilience and adaptability, significantly contributing to the nation's GDP over the years.

(https://www.business-standard.com/, December 24, 2024)

GJEPC Hosts Hybrid Workshop on Export Readiness and MSME Benefits

The Gem and Jewellery Export Promotion Council (GJEPC) conducted a hybrid workshop at its Zaveri Bazaar office on December 27, focusing on export readiness and membership benefits. The session also provided detailed information about advantages available under the Micro, Small, and Medium Enterprises (MSME) scheme. Participants received comprehensive guidance on crucial export requirements, including Import Export Code (IEC), Customs Know Your Customer (KYC), and various essential registrations such as Authorized Dealer Bank, Indian Customs Electronic Data Interchange Gateway (ICEGATE), and Udyam. The workshop featured detailed presentations covering industry-specific topics including Parichay cards, PM Vishwakarma Yojana, and multiple export channels through courier services and e-commerce platforms. The council also highlighted upcoming industry events such as the International Gem and Jewellery Show (IGJS) and India International Jewellery Show (IIJS).

(https://knnindia.co.in/, December 31, 2024)

MSME exports: FIEO Seeks 5-year Extension of Interest Equalisation Scheme

Exporters body Federation of Indian Export Organisations (FIEO) has urged the government to extend the interest equalisation scheme further for at least five years from December 31, 2024, to support exporters amid the decline in merchandise exports of the country. FIEO President Ashwani Kumar said there is an urgent need to take steps on the liquidity front with deeper interest subvention support and extension of interest equalisation scheme for at least 5 years, creating a predictable business environment for the exporters. Further, demanding a cap of Rs 10 crore for all MSMEs and 410 tariff lines for a period of five years, Kumar said in a statement that the imposition of cap of Rs 50 lakh per company in the scheme has hit many MSMEs and they are unable to decide on order with non-availability of further subvention.

(By Sandeep Soni, https://www.financialexpress.com/, December 17, 2024)

CGTMSE: Govt's Collateral-Free MSME Loan Scheme Hits 1 Crore Guarantees

The government's Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE), which provides guarantees to banks for collateral-free loans to micro and small enterprises (MSEs), has achieved the 1 crore guarantee mark. The fund, launched in 2000, enables collateral-free loans up to a limit of Rs 5 crore to MSEs with guarantee coverage up to 85 per cent for various categories of loans under the credit guarantee scheme. The three prominent member lending institutions that played a significant role in hitting 1 crore guarantees were State Bank of India, HDFC Bank and Union Bank, CGTMSE said in a statement on Tuesday.

(https://www.financialexpress.com/, December 18, 2024)

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POLICY UPDATE

Govt. Policy, Business Procedures & Regulations

POLICY/ NOTIFICATIONS

Union Budget 2025-26 dated 1st February 2025 – A Boost for Electronics Manufacturing

The Union Budget 2025-26 prioritizes the growth of India's electronics manufacturing sector through strategic measures that include duty rationalization, regulatory relief, and enhanced credit access. Key highlights include:

- **Tariff Rationalization & Cost Competitiveness:**
  - Mobile Components: Duty on parts reduced from 2.5% to 0%, fostering domestic production.
  - Display Industry: Lower duties on open cell inputs and relief for Interactive Flat Panel Displays (IFPD) to enhance cost efficiency.
- **Regulatory Easing for IGCR Imports:**
  - Extended submission timelines for end-use certificates from 6 months to 1 year.
  - Shift from monthly to quarterly reporting, easing the compliance burden.
- **MSME & Startup Support:**
  - Revised MSME classification with higher turnover limits to drive growth.
  - A ₹10,000 Crore Fund of Funds to bolster startups and first-time entrepreneurs in technology and manufacturing.
- **Manufacturing & Clean Tech Incentives:**
  - Support for sectors like solar PV, EV batteries, and semiconductors under the National Manufacturing Mission.
  - Duty exemptions on critical minerals and capital goods to fortify domestic manufacturing capabilities.
- **Exports Development:**
  - Focused strategies to boost global competitiveness through the Export Promotion Mission and BharatTradeNet—a unified digital platform for trade documentation and financing.
  - Strengthening Global Capability Centres (GCCs) in tier-2 cities.
- **Consumer Demand & Market Growth:**
  - Enhanced tax rebates (income up to ₹12 lakh tax-free) to spur higher disposable incomes and increased demand for consumer electronics.

These measures are aligned with the Hon'ble Prime Minister's vision of achieving USD 500 billion in electronics manufacturing by 2030, emphasizing domestic value addition, export expansion, and job creation.

ELCINA is closely monitoring the final announcement regarding the Scheme for Promoting Components Manufacturing, a pivotal initiative for reducing import dependence and attracting significant investment in the sector.

Please scan the QR Coder to view the ELCINA Union Budget Provisions & Analysis 2025-26

POLICY UPDATE

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Upcoming QCOs in the Official Gazette: Overview of Product Orders and Implementation Dates

Below is an overview of the key Quality Control Orders (QCOs) and their implementation dates:

S. No.	Order Title	Date of Implementation (For General Enterprises)
1.	Aluminium and Aluminium Alloy Products (Quality Control) Order, 2024	1 April 2025
2.	Cookware, Utensils and Cans for Foods and Beverages (Quality Control) Order, 2024	1 April 2025
3.	Electrical Appliances for Commercial Dispensing and Vending (Quality Control) Order, 2024	1 April 2025
4.	Geotextiles (Quality Control) Order, 2024	1 April 2025
5.	Indutech (Quality Control) Order, 2024	1 April 2025
6.	Medical Textiles (Quality Control) Order, 2024	1 January 2025
7.	Ropes and Cordages (Quality Control) Order, 2024	1 April 2025
8.	Multi-Layered Plastic Laminates for Packaging	1 April 2025
9.	Seamless Copper Tubes for Air Conditioning and Refrigeration	1 April 2025
10.	Steel Tubes for Mechanical and General Engineering Purposes – Specification	1 March 2025
11.	Welding Wires for Automatic Arc Welding of Unalloyed and Low Alloy Steel	1 January 2025
12.	Zinc and Zinc Alloy Coated Steel Sheet and Strip	1 April 2025

These QCOs are designed to ensure that the listed products meet the required quality standards, thereby enhancing safety and compliance within the industry.

Several of these orders have been issued to supersede previous versions. Manufacturers are advised to carefully examine the revised provisions and note the updated implementation dates to ensure full compliance.

POLICY UPDATE

Key Notification & Circulars during Dec 2024-Feb 2025

- **DGFT Trade Notice No. 29/2024-25, dated 11th February 2025:** DGFT Mandates Online Submissions & Payments for Enforcement Proceedings
- **Notification No. 04/2025-Customs, dated February 1, 2025:** Government Rationalizes Import Duties Under New Customs Notification
- **Notification No. 05/2025-Customs, dated February 1, 2025:** Government Revises Basic Customs Duty (BCD) Structure Through Latest Amendments
- **Notification No. 06/2025-Customs, dated February 1, 2025:** Government Updates AIDC Rates Under New Customs Notification
- **Notification No. 07/2025-Customs, dated February 1, 2025:** Government Revises Social Welfare Surcharge Exemptions in Budget 2025
- **Notification No. 10/2025-Customs, dated February 1, 2025:** Government Revises Customs Duty on Telecom and Mobile Manufacturing Inputs
- **Notification No. 11/2025-Customs, dated February 1, 2025**, amending Notification No. 25/2002-Customs to expand the exemption of Basic Customs Duty (BCD) for capital goods used in the manufacture of lithium-ion batteries for mobile phones and electric vehicles (EVs).
- **Notification No. 07/2025-Customs (N.T.), dated February 1, 2025:** CBIC Amends IGCR Rules, 2022 to Extend Compliance Timelines
- **CBIC Notification No. 01/2025 – Central Tax dated 10th January 2025:** Seeks to extend the due date for furnishing FORM GSTR-1 for the month of December 2024 and the quarter of October to December 2024, as the case may be
- **Launch of PLI Scheme 1.1 for Specialty Steel dated 6th January 2025**
- **MeitY notification dated 3rd January 2025:** Draft Digital Personal Data Protection Rules, 2025 for Public Consultation
- **DGFT Notification No. 47/2024-2025 dated 2nd January 2025:** DGFT Introduces Stakeholder Consultation Measures in Foreign Trade Policy
- **DGFT Notification No. 50/2024-25, Dated 13 January 2025:** DGFT Updates Export Policy: Schedule-II (Export Policy) Synced with Finance Act 2024
- **GST Instruction No. 01/2025-GST dated 13th January 2025:** Guidelines for Arrest and Bail under CGST Act, 2017 Updated (Amendment to Instruction No. 02/2022-23 GST (Investigation) dated 17.8.2022)
- **DGFT Public Notice No. 40/2024-2025, Dated 15th January 2025:** DGFT Issues SOP for Voluntary Disclosure of Non-Compliance/Violations in SCOMET Exports
- **DGTR F. No. 6/22/2023-DGTR dated 23rd December 2024:** Anti-Dumping Duty on Imports of "Soft Ferrite Cores" from China PR: Final Findings
- **CBIC Circular No. 27/2024-Customs dated 23rd December 2024:** Enabling Voluntary Payment Electronically on ICEGATE e-Payment Platform
- **DGFT Trade Notice No. 24/2024-25 dated 20th December 2024:** Launch Date for eCoO 2.0 System Rescheduled to 17th January 2025
- **BIS ref CMD III/16: IS 302 (Part 1) dated 16th December 2024:** Implementation of Safety of Household, Commercial, and Similar Electrical Appliances Quality Control Order (QCO) 2024
- **The Directorate General of Foreign Trade (DGFT) has released Policy Circular No. 09/2024-25**, outlining the procedure for implementing the Import Management System (IMS) for restricted IT hardware, including laptops, tablets, all-in-one PCs, ultra-small form factor computers, and servers (HSN 8471).
- **The Directorate General of Foreign Trade (DGFT) has issued Policy Circular No. 10/2024-25 dated December 13, 2024**, clarifying the applicability of amendments to Para 5.10(c) of the Handbook of Procedures (HBP) 2015-20 for third-party exports under the Export Promotion Capital Goods (EPCG) Scheme.
- **The Directorate General of Trade Remedies (DGTR) has issued the final notice** on the Product Under Consideration (PUC) and Product Control Number (PCN) methodology for the anti-dumping investigation concerning imports of "Solar Cells whether or not assembled in Modules or made up into Panels" from China PR.
- **The Central Board of Indirect Taxes and Customs (CBIC) has issued Circular No. 239/33/2024-GST**, introducing amendments to streamline the adjudication process for show-cause notices (SCNs) issued by the Directorate General of GST Intelligence (DGGI).
- **The Central Board of Indirect Taxes and Customs (CBIC) has issued Notification No. 31/2024** - This notification appoints specific officers for adjudicating notices issued by the Directorate General of Goods and Services Tax Intelligence (DGGI) under various sections of the CGST Act.

For any queries or details about any of the above circular/notification or getting detailed **ELCINA Policy Capsule**, please contact *policy@elcina.com or info@elcina.com*

Call for Award Nominations are open!

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CALL FOR NOMINATIONS FOR IETE AWARDS-2025

The IETE Awards have been established to recognize excellent scientific and technological achievements in the scientific fields covered by the Institution. Most of these IETE Awards are presented at the Annual IETE Convention (AIC) of IETE.

Nomination Submission Deadline for IETE Main Awards and IETE Corporate Awards: May 31, 2025.

The IETE Awards are conferred upon finalists who have made significant scientific contributions in the specified field(s) relevant to the award. Each Award comprises various honors. Some recipients receive a plaque or a medal, or an honorarium, or travel support (according to the award criterion) to the nearest IETE Centre, where they are invited to deliver a lecture at an appropriate event.

Details and description of each award can be found https://www.iete.org/files/CFN-MainAwards2025.pdf and https://www.iete.org/files/CFN-CorpAwards2025.pdf

IETE AWARDS

IETE MAIN AWARDS (in the fields as stated)

- **IETE-Ram Lal Wadhwa Award**- (Electronics and Telecommunication Engineering)
- **IETE-Hari Ramji Toshniwal Award**- (Development & production of Electronic Instruments and related Systems)
- **IETE-Bimal Bose Award**-(Power Electronics)
- **IETE-Lal C Verman Award**- (Standardization, Quality Control and Precision Measurements)
- **IETE-IRSI (83) Main Award & IETE-IRSI (83) Young Scientist Award**- (Radar Science & Technologies)
- **IETE-Flt Lt Tanmaya Singh Dandass Memorial Award**- (vionics)
- **IETE-Prof K Sreenivasan Memorial Award**- (Teaching Electronics and Telecommunication Engineering)
- **IETE-Prof SVC Aiya Memorial Award** – (Guidance in Electronics and Telecommunication Research work)
- **IETE-Prof S N Mitra Memorial Award**- (Radio Broadcast Science and Technology)
- **IETE-Bapuseetharam Award (Biennial)**-(Electronic Components).
- **IETE-B V Baliga Memorial**- (Electronics and Telecommunication with emphasis on R&D and Industrial Development)
- **IETE-N V Gadadhar Memorial Award**-(Electronics and Telecommunication Engineering with emphasis on Mobile Radio Communication)
- **IETE-B R Batra Memorial Award**- (for selfless service to the cause of the IETE)
- **IETE-R S Khandpur Award**- (Medical Instrumentation)
- **IETE-Brig M L Anand Award-** (Applications of Networking and Internet with its usage in everyday life & commerce)
- **IETE-Biman Behari Sen Memorial Award-** (emerging areas of Electronics and Telecommunications with emphasis on R&D and Industrial Development)
- **IETE-Life Time Achievement Award-** (Electronics, Telecommunication & allied fields)
- **IETE-Smt Manorama Rathore Memorial Award**- (Electronics and / or Communication)
- **IETE-Smt Ranjana Pal Memorial Award**-(RF Communications, Electromagnetic, Antennas, Microwaves Circuits, Devices *etc*)
- **IETE-Smt Triveni Devi Gupta Memorial Award**- (Electronics, Telecommunications, Medical Electronics, Broadcasting, IT, ICT, E-Governance, Computer Technology, RF, e-Education, Electrical Technology).
- **IETE-Technomedia Award for Young Women in Engineering**- (Electronics, Telecommunication, Computer Science and Information Technology Engineering)
- **IETE-Shri Devi Singh Tyagi Memorial Award-** (Avionics and Defence Electronics)
- **IETE-Shri P P Malhotra Memorial Award**- (Electronics Industry / Academia) only for IETE Organizational Members
- **IETE-Dr Sudhakar Rao Award**-(Advanced Antenna System for Space, Air or Ground Communications)
- **IETE-Sri C Viswanatha Reddy Memorial Award-** (electromagnetics, antennas, and wireless communication)
- **IETE-Smt C Ranganayakamma Memorial Award-** (electromagnetics, antennas, and wireless communication)
- **IETE-Yasodamma and Sarasavani Award**-(Wireless Sensor Networks & UAVs)
- **IETE-Prof Anita Gopal Dandekar Award-** (Generative Artificial Intelligence)
- **IETE-Suruchi-Suresh Dutta Roy Memorial Award (Biennial)-** (Circuits and Systems)
- **IETE-Dr K D Pavate Memorial Award**-(Research & Innovations in the broad domains of Digital & AI driven Acoustics, A/V Technologies; AR/VR & Immersive Technologies)- New Award.

IETE CORPORATE AWARDS

In the categories of **Large Enterprises (LEs),** and **Micro/Small/ Medium Enterprises (MSMEs)** in each of the following areas:

- Electronic Components
- Computer and Telecommunication Systems
- Development of Software
- Electronic Instruments and Instrumentation.

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MY STORY

"Woman Empowerment has Always Been Close to My Heart"

PAMELA ANNA MATHEW
CMD,
O/E/N India Limited

(Ms Pamela Anna Mathew as President of ELCINA 1995-96)

The Secret Sauce Behind the Foundation of O/E/N India Limited

In the early 1960s, when the U.S. President John F. Kennedy established the Peace Corps to assist in the development of countries, a young volunteer named Tom Murray arrived in Perumbavoor, Kerala, to support local poultry farming. During his time there, K.A. Mathew, a Rotarian and Development Manager at Travancore Rayons on the outskirts of Cochin, invited Tom to spend an evening with him. Over tea, they discussed various topics, and Mr. Mathew shared his aspiration to eventually start his own business, with electronics being a likely area of focus. He believed it would be a promising industry in India, given the country's low level of electronics penetration at the time. After that conversation, they went their separate ways, and the subject was soon forgotten.

Months later, in 1966, back in his hometown near Chicago, Tom Murray met an old family friend, a Vice President at OAK Electro/Netics Corporation in Crystal Lake, Illinois. OAK, a multinational conglomerate at the time, specialized in manufacturing components and materials for the global electronics industry and was ranked among the Fortune 1000 companies. When Tom mentioned his trip to India, he casually referred to his conversation with Mr. Mathew, knowing the VP had an interest in electronics. The OAK VP took down Mr. Mathew's contact details and reached out, as OAK was exploring the possibility of selling its products—specifically relays and switches— in India. This marked the beginning of communication between the two, initially through snail mail and telegrams, followed by visits on both sides.

Success of the Partnership

In the beginning, a partnership firm was established with the intent of exploring the Indian market for the products of OAK, and more crucially, to initiate the formation of a Joint Venture company to bear the name "O/E/N India Limited" (with "O/E/N" standing for OAK/Electro/Netics, after the American partner), tasked with the production of select items from OAK's range. It is noteworthy that, during this very period, the partnership firm also took upon itself the marketing of various electrical connectors, which were manufactured by a German firm. This endeavour, in due course, played a pivotal role in inspiring O/E/N to embark upon the conception of manufacturing connectors in India during the early 1980s, once the potential for such products had been established within the country.

A market survey conducted by OAK's engineers and by me identified po-

MY STORY

tential in India's Defence and Communications sectors for Rotary Wafer Switches, Relays, and Miniature Trimming Potentiometers—products OAK was manufacturing at the time. Despite the market being small but growing, it was deemed viable to manufacture these products in India. In 1968, O/E/N India Ltd. was registered, and a Joint Venture Agreement was signed with OAK Electro/Netics, with Kerala State Industrial Development Corporation (KSIDC) as a major investor. Land was acquired on a hillock, aptly named Electrogiri, in the serene village of Mulanthuruthy, away from Cochin's industrial pollution. While the factory was being built, three engineers were trained in the USA and UK, returning to set up production lines with assistance from OAK experts.

The Initial Strategies for Expanding O/E/N in Industrial Market

By mid-1969, trial production began, and samples were sent to the USA and UK for approval. The Electrogiri factory was officially opened on December 11, 1969. Initially focused on the Defence sector, O/E/N soon expanded into Communications and Industrial markets, breaking even the next year and declaring its first dividend in 1973.

> I believe that strategic direction coupled with nurturing and mentoring of a highly skilled team of professionals ensures the success of any company

During the 1970s, O/E/N served key Defence clients such as BEL, ITI, HAL, and ISRO. As the Telecommunications revolution gained pace, the company shifted its focus, with its relays becoming integral to C-DOT exchanges still used in rural India. In the 1980s, O/E/N expanded with a new factory in Peenya, Bangalore, and two ventures—O/E/N Micro Systems for computer peripherals and O/E/N Connectors, a JV with a French firm. A partnership with a German connector company, however, fell through. In 1986, the company lost its founder, but his strong foundation and the family's leadership ensured continued growth and success.

Tata Sons, Chairman, Ratan Tata presenting the Confederation of India Industry (CII) National Award for Outstanding Contribution to Pamela Anna Mathew, CII-Kerala Chaiperson | May 2003

O/E/N's Growth Trajectory

In the '90s, O/E/N shifted focus to the rapidly growing automotive sector while maintaining strength in Industrial Controls and Instrumentation. We started with a legacy relay product from a German partner and established a strong presence in the Automotive Relay business, earning ISO TS 16949 certification in 2003 – the first in Kerala.

Our original facility, set up in 1968 in Cochin, now spans 9,000 sq. meters with modern assembly, testing, and manufacturing areas. In 2010, we expanded to Pune, acquiring a firm specializing in automotive relays and modules. To meet growing demand, we built a 12,000 sq. meter, multi-tower complex in phases, with the first phase launched in 2016. This plant strengthens our position in automotive relays and modules, bringing us closer to key customers and supporting our founder's vision for nationwide manufacturing.

The Professional and Management Excellence of Growing O/E/N

Armed with dual postgraduate degrees in Economics and Business Administration, and over five decades of

MY STORY

Management Leadership Award of Kerala Management Association received by Pamela Anna Mathew from Honorable Finance Minister, K.M. Mani; 2011

professional and managerial expertise, my management philosophy revolves around the seamless integration of 'best practices' gleaned from global industry leaders. A strategy that has played a pivotal role in propelling O/E/N's growth, is fostering a culture of continuous innovation. I have ensured that the company remains at the forefront of technological advancements, optimizing costs while adopting cutting-edge product solutions, thus enabling O/E/N to maintain a competitive edge on the global stage.

I believe that strategic direction coupled with nurturing and mentoring of a highly skilled team of professionals ensures the success of any company and O/E/N is blessed with a workforce of exceptional talent. The workforce comprising over 2,000 employees and a considerable number of contract workers, we have cultivated a dedicated and resilient team, all of whom contribute to the ongoing success of O/E/N. By embracing a global outlook, championing innovation, and empowering the team, we are trying to cement O/E/N's reputation as a formidable player in the industry, ultimately securing its place as a market leader. O/E/N has reached to a position of market leadership in India's electromechanical components sector.

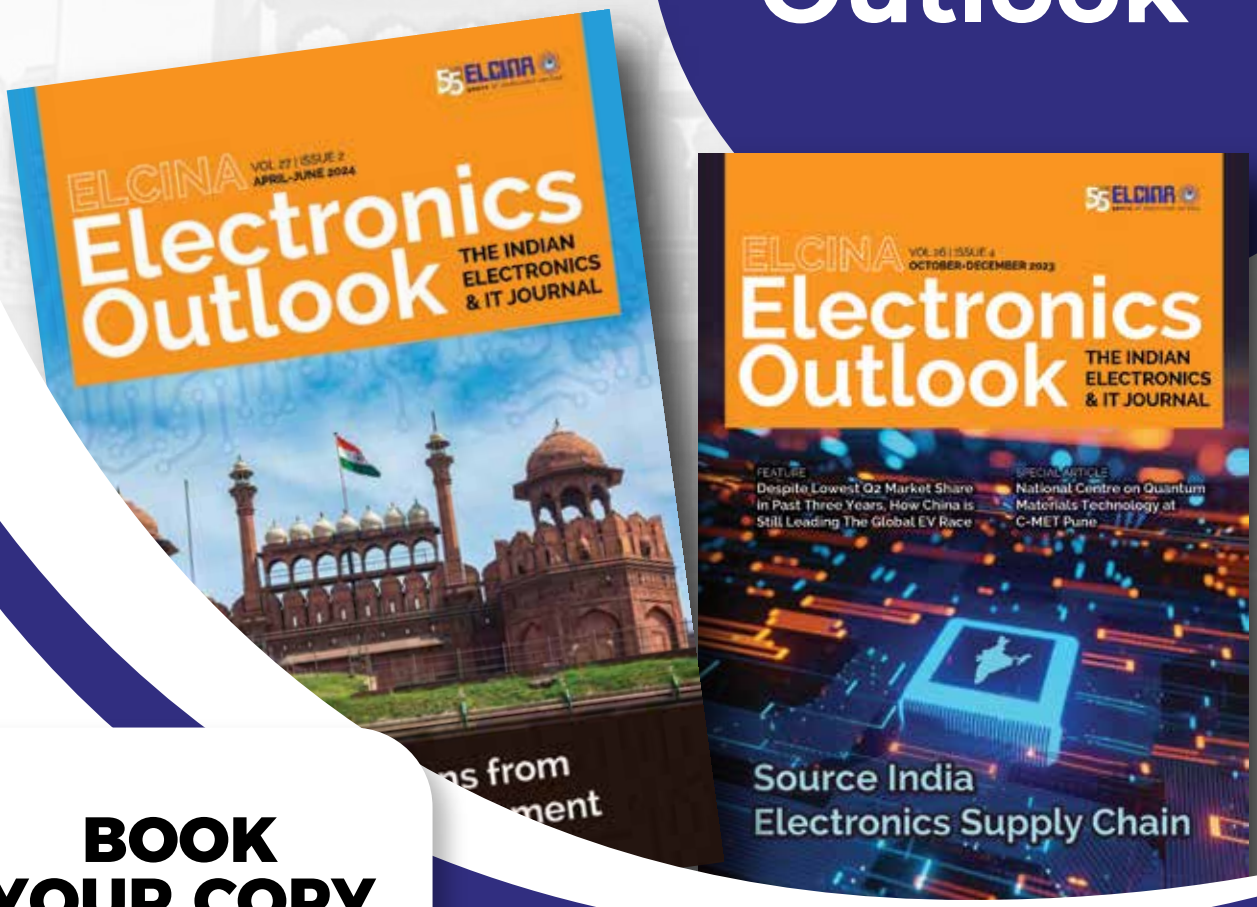
I have had the privilege of playing key roles in various organizations, advocating for women's empowerment, business development, and policy reforms. As the first female President of the Cochin Chamber of Commerce, I contributed reshaping the policies during India's economic liberalization.

I am proud to be the first and till now the only female president of the ELCINA (1994-95), playing my bit in driving critical policy changes for the national electronics sector during my tenure as President of the Association. In 2024, ELCINA bestowed 'Lifetime Achievement Award' to me which I feel a great honour for me and recognition for O/E/N's 50 years' contribution to Indian electronics industry. I was also honored with the Management Leadership Award by KMA in 2011, presented by Finance Minister K.M. Mani, and received the CII National Award for Outstanding Contribution, presented by Tata Sons Chairman, Ratan Tata.

Woman empowerment has always been close to my heart and in all my public life, wherever I got chance, I tried to influence government policies towards that. Initiatives for women education, self-help groups, and rural entrepreneurship has been my passion and as Chairperson of the CII Southern Region Women's Empowerment Task Force, my focus has been on developing women leaders.

55 ELCINA
years of dedicated service

ELCINA Electronics Outlook



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INVEST MP

Madhya Pradesh Sets the Stage for Future Tech Growth with Major Investments and Strategic Collaborations

The Madhya Pradesh Global Investors' Summit (MP-GIS) concluded with Chief Minister Mohan Yadav announcing a record ₹26.61 trillion in investment proposals, set to create 1.73 million jobs across various sectors. This, combined with the Regional Industry Conclaves held over the year, brings the total investment commitment to nearly ₹31 trillion. A significant portion of the proposals, 54%, focuses on industries and renewable energy. Over two days, nearly 600 B2B and 5,000 B2C meetings were held, with participation from over 300 top executives, including Gautam Adani, Nadir Godrej, Piruz Khambatta, Rahul Awasthi, and many more

Madhya Pradesh is also focusing on attracting investments in the IT and electronics sectors through its progressive IT policy. The state is leveraging its skilled workforce and strong infrastructure to draw investments. In line with its ambitious vision, the state has launched the Semiconductor & ESDM Policy 2025, aimed at strengthening India's semiconductor ecosystem. The policy provides significant financial incentives, such as capital subsidies, reduced land rates, and lower electricity tariffs, to attract semiconductor fabrication and design units. This is part of Madhya Pradesh's broader effort to create a competitive environment for electronics manufacturing and foster global investments.

Madhya Pradesh Emerges as a Leading Hub for Electronics Manufacturing and Emerging Technologies

With strategic partnerships, the state is focusing on areas like semiconductor chip design and manufacturing, as well as OSAT (Outsourced Semiconductor Assembly and Test) and ATMP (Assembly, Testing, Marking, and Packaging) facilities. Additionally, Madhya Pradesh is positioning itself as a hub for emerging technologies like drones, with investments already flowing in from companies such as Prakhar Software Solutions.

The state's growing prominence in the tech and electronics sectors is further supported by commitments from major companies. Technology companies have pledged Rs 25,640 crore in investments during the IT and Technology Summit, creating over 1.83 lakh jobs. Notable investments include Rs 12,350 crore for electronics manufacturing, Rs 5,500 crore from IT and ITes sectors, and Rs 700 crore for GCC investments. Other companies, like Kaynes Technology, Beyond Studioz, and Tholons Inc., have also committed substantial investments, driving job creation and innovation.

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Madhya Pradesh's strategic collaborations with global technology giants like IBM, Microsoft, and Barclays are expected to strengthen its IT and electronics ecosystem. With ongoing investments in data centers, AVGC, and drones, the state is poised to become a leader in India's semiconductor and electronics manufacturing sectors, creating thousands of jobs and establishing itself as a global tech hub.

What the Experts Said

Dr. Mohan Yadav, *Chief Minister of Madhya Pradesh*

Madhya Pradesh is at an incredibly promising crossroads, with world-class infrastructure and a highly skilled talent pool that make it an attractive destination for investment. There are substantial announcements from major companies such as Amber, Elcina, Prakhar, STDL, Tholons, Kaynes, Beyond Studioz, and IITI Drishti that reflect the increasing confidence investors have in the state's potential..These investments are not only a testament to the state's growth but also a strong indicator of its emerging role as a key player in India's technological and industrial landscape. The state's commitment to creating a supportive environment for businesses, along with its strategic focus on sectors like electronics, IT, and innovation, is setting the stage for sustained economic development and job creation in the years to come.

S Krishnan, *Secretary, MeitY*

To truly empower India, it is crucial that we go beyond mere digital expansion and focus on job creation, value addition, and strengthening the semiconductor supply chain. India's digital economy has witnessed a significant growth, increasing from 6-7 percent to 13 percent of the nation's GDP over the past decade. This growth reflects India's expanding role in the global digital landscape, but Krishnan believes the next step lies in leveraging this momentum to build a more robust and sustainable economy. The opportunity to drive the vision of Viksit Bharat by 2047 is within our grasp. There is a critical need for further investment and innovation in key sectors to ensure India's leadership in the global technological and economic arena in the years ahead.

Sanjay Dubey, *Additional Chief Secretary, Department of Science and Technology, Govt of Madhya Pradesh*

Under the Investment Promotion Policy of 2023, Madhya Pradesh will offer land allotments to companies in the semiconductor sector to encourage investment and growth in the industry. For companies that commit to investments exceeding Rs 400 crore, the state will provide tailored infrastructure support, ensuring that businesses have access to the necessary facilities and resources to thrive. Additionally, these companies will benefit from tax concessions and extra financial assistance to further incentivize investment and ease their operational costs.

Amit Shah, *Union Home Minister of India*

A developed India by 2047 and the world's third-largest economy by 2027 is Prime Minister Narendra Modi's vision, and Madhya Pradesh has a crucial role to play in achieving this. The MP-GIS will not only generate countless job opportunities for the

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state's youth but also create a conducive environment for growth through the sectoral policies launched in recent days. A stable and powerful government is the foundation for industrial growth, and Madhya Pradesh stands as a beacon of such governance.

Union Minister Ashwini Vaishnaw Announces Milestones for Semiconductor Production and Electronics Growth at Global Investors Summit 2025

Union Minister Shri Ashwini Vaishnaw participated virtually on the second day of the 'Global Investors Summit 2025' in Bhopal, where he congratulated the HLBS family on the inauguration of their new plant, timed with the auspicious occasion of Mahashivratri. Shri Vaishnaw announced that by 2025, India would produce its first 'Made in India' semiconductor chip, marking a significant milestone in the country's technological progress. He also credited Prime Minister Narendra Modi and Madhya Pradesh Chief Minister Mohan Yadav for their key roles in achieving this achievement, noting that under Modi's leadership, electronic manufacturing in Madhya Pradesh has gained substantial momentum. The establishment of two electronic manufacturing clusters in Bhopal and Jabalpur, approved by the Prime Minister, has been a key development, with 85 companies now actively involved in the sector in the state.

Shri Vaishnaw further emphasized the government's commitment to advancing technology and skill development, announcing the training of 20,000 engineers under the Future Skills Program in Madhya Pradesh. Over the past decade, the electronics manufacturing sector in India has seen unprecedented growth, with a valuation of Rs. 10 lakh crore. Currently, India exports electronics worth Rs. 5 lakh crore, including mobile phones (Rs. 4 lakh crore), laptops, servers, telecom equipment (Rs. 75,000 crore), and defense & medical electronics. Electronics has become one of the top three export items for the country, highlighting the sector's growing importance on the global stage.

Conclusion

The Madhya Pradesh Global Investors' Summit has marked a pivotal moment in the state's journey toward becoming a major hub for electronics, IT, and emerging technologies. With a record ₹26.61 trillion in investment proposals and a strategic focus on semiconductor manufacturing, the state is positioning itself to play a key role in India's technological future. The strong partnerships with global giants, coupled with progressive policies and a highly skilled workforce, create an environment ripe for sustained growth. As the state continues to attract investments and foster innovation, it is on track to create millions of job opportunities and establish itself as a global leader in the electronics and semiconductor sectors. With visionary leadership from both the central and state governments, Madhya Pradesh is set to become a cornerstone of India's economic and technological ascent.

Opportunities & Events

Forthcoming EVENTS

OVERSEAS SHOWS

14th Langkawi International Maritime and Aerospace Exhibition
20-24 May 2025
Langkawi, Malaysia
https://lima2025.com/

Computex Taipei 2025
20-23 May 2025
Taipei, Taiwan
https://www.computextaipei.com.tw/en/index.html

AMTS
9-11 July 2025
International Expo Center, China
https://www.shanghaiamts.com/en/about/exhibition-introduction

World Battery & Energy Industry Expo
8-10 August 2025
Guangzhou, China
https://en.battery-expo.com/

9th International Conference on Energy Research and Technology (ICERT 2025)
21-23 August 2025
Paris, France
https://icertseries.com/

BUSINESS UPDATE

OVERSEAS SHOWS

Optical Fiber Comm And ICT show
27-29 August 2025
https://www.wirecableshow.com/self122.htm

KPCAshow2025 (Int'l Electronic Circuits and Packaging Show)
3-5 September 2025
https://www.kpcashow.com/m/eng/about.asp

SEMICON® WEST

SEMICON® WEST
7-9 October 2025
Phoenix Convention Center, Phoenix, Arizona
https://www.semiconwest.org/

HKTDC 香港貿發局

Hong Kong Electronics Fair
13-16 October 2025
Hong Kong (Autumn Edition)
https://www.hktdc.com/event/hkelectronicsfairae/en/programme#

CES

CES 2026
6-10 January 2026
Las Vegas Convention Center, Las Vegas, USA
https://www.ces.tech/

MWC GSMA

Mobile World Congress (MWC) 2026
2-5 March 2026
Fira de Barcelona Gran Via, Barcelona, Spain
https://www.mwcbarcelona.com/

productronica

Productronica China 2026
25-27 March 2026
Shanghai New International Expo Centre, Shanghai, China
https://www.productronicachina.com.cn/en/

BUSINESS UPDATE

DOMESTIC EVENTS

Global EV Expo 2025
13–15 June 2025
Gandhinagar Gujarat
https://www.globalevexpo.in/

Consumer Electronics
24-26 July 2025
Pragati Maidan, New Delhi
https://cewexpo.com/

14th Strategic Electronics Summit 2025
8-9 August 2025
Bangalore International Exhibition Centre, Bengaluru
https://ses-india.in/

Electronics Expo India 2025
21-23 August 2025
Pragati Maidan Delhi
https://www.ipcapcb.org/activities

SEMICON® India
1-3 September 2025
Yashobhoomi (IICC), New Delhi
https://www.semiconindia.org/

POWERGEN India 2025
2-4 September 2025
Dwarka, India
https://www.powergen-india.com/exhibitor-list

BUSINESS UPDATE

DOMESTIC EVENTS

electronica India 2025
17-19 September 2025
Bangalore International Exhibition Centre
https://electronica-india.com/en/trade-fair/

POWER ELEC INDIA EXPO
16-18 January 2026
Auto Cluster Exhibition Center, Pimpri-Chinchwad, Pune
https://powerelecindia.com/

15th Source India 2025
10-11 February 2026
Chennai Trade Centre, Chennai
https://event.sourceindia-electronics.com/

Elecxpo India 2026
20-23 February 2026
Chennai, India
https://elecxpo.com/

33rd Convergence India 2026
23-25 March 2026
Bharat Mandapam, Pragati Maidan, New Delhi
https://www.convergenceindia.org/

Embedded Tech India Expo 2026
23-25 March 2026
Bharat Mandapam, Pragati Maidan, New Delhi
https://www.embeddedtechexpo.com/

ELCINA ACTIVITY UPDATE

Update on ELCINA Activities

Glimpses of Source India 2025, Chennai

Conference: "Enhancing India's Electronics Supply Chain", Day 1

Lamp Lighting at Inaugural Session

Welcoming Guest of Honour: Mr Arun Roy, IAS, Secretary, Industries, Govt. of Tamil Nadu

Inaugural Session: Stimulating a wider India Supply Chain

Session I: India's present position in Global Value of Key Sectors

Session II: Supporting Policies & Eco-System of Electronics Manufacturing

ELCINA ACTIVITY UPDATE

Conference: "Enhancing India's Electronics Supply Chain", Day 2

Welcoming Dr Palanivel Thiagarajan, Hon'ble Minister of Information Technology & Digital Services, Govt. of Tamil Nadu

Session I: Components Eco-System: Segment wise Status, Potential and Challenges

Session II: Semiconductors & Special Materials - Pontential and Challenges

Session III: Start-Ups - Driving Innovation in the ESDM Domain

ELCINA ACTIVITY UPDATE

Vendor Development Sessions

Syrma SGS Technology Ltd.

TITAN

Tata Electronics

Delta Electronics

Start-up Challenge Session

ELCINA ACTIVITY UPDATE

Exhibition Inaugural Ceremony

Inauguration of Source India Exhibition 2025 by Chief Guest, Dr. TRB Rajaa, Hon'ble Industry Minister, Govt. of Tamil Nadu

ELCINA ACTIVITY UPDATE

Buyer-Seller Meetings

ELCINA ACTIVITY UPDATE

Source India in News

யுகம்

புதன்கிழமை 19.02.2025

"சோர்ஸ் இந்தியாஎலக்ட்ரானிக்ஸ் சப்ளை செயின் 14-வது பதிப்பு மதிப்பு கூட்டலை ஊக்குவித்தல்"

சென்னை, 19 பிப்ரவரி 2025: இந்தியாவின்வேகமாக வளர்ந்துவரும்எலக்ட்ரானிக்ஸ் துறைக்கு ஒரு முக்கிய தருணத்தை உணர்த்தும் வகையில், சோர்ஸ் இந்தியா எலக்ட்ரானிக்ஸ் சப்ளை செயின் 2025 இன் 14வது பதிப்பு சென்னை வர்த்தக மையத்தில் தொடங்கியது. இந்தியாவின்எலக்ட்ரானிக்ஸ் இண்டஸ்ட்ரீஸ் அசோசியேஷன் ஆஃப் இந்தியா (ELCINA) ஏற்பாடு செய்திருக்கும் இந்த மதிப்புமிக்க நிகழ்வானது 150 க்கும் மேற்பட்ட கண்காட்சியாளர் கள், தொழில்துறை தலைவர்கள் மற்றும் 3000-4000 பிரதிநிதிகள் மற்றும் பார்வையாளர்களை ஒன்றிணைத்து இந்தியாவின் மின்னணுவிநியோகச்சங்கிலியை மேம்படுத்தவும், துறையில் நிலையான வளர்ச்சியை உந்தவும் செய்கிறது.

2009-ஆம் ஆண்டுமுதல் தமிழ்நாடு தொழில்துறை அமைச்சகத்தின்நிலையான மற்றும்வலுவான ஆதரவுடன், மின்னணு அமைப்புஉற்பத்தி மற்றும் உற்பத்தி (ESDM) சுற்றுச்சூல் அமைப்பு முழுவதும்வணிகங்களை இணைக்கும்ஒருவலுவான தளமாக Source India வளர்ந்துள்ளது. நெதர்லா, சிங்கப்பூர்,ரஷ்யாமற்றும்ஜப்பான் ஆகியநாடுகளைச்சேர்ந்த வெளிநாட்டுநிறுவனங்களின் பங்கேற்புடன்,இந்த ஆண்டு நிகழ்வின்கவனம் 'மின்னணு விநியோகச் சங்கிலியை மேம்படுத்துதல்: ஒரு தெளிவான மின்னணுத் துறைகாலமதிப்புக்கூட்டலை மேம்படுத்துதல்'.

2015ல் 16 நிதியாண்டில் 37 பில்லியன் அமெரிக்க டாலர்களிலிருந்து 2023 24 நிதியாண்டில் 115 பில்லியன்டாலராகஉயர்ந்து, இந்தியாமின்னணுத்துறை குறிப்பிடத்தக்கவளர்ச்சியைக் கண்டுள்ளது. 202324 நிதியாண்டில் ஏற்றுமதி தோராயமாக29பில்லியன் அமெரிக்க டாலர்களாக உயர்ந்துள்ளது. இது தொழில்துறைகிட்டத்தட்ட 2மில்லியன்வேலைகளை உருவாக்கப்பங்களிக்கிறது. இருப்பினும், இந்தியாவின் எலக்ட்ரானிக்ஸ் சந்தை இன்னும் 4.3 டிரில்லியன் டாலர் மதிப்புள்ளஉலகளாவிய சந்தையில்மரபுரீதியாக்கப்பட்டபங்களைக்கொண்டுள்ளது. இஸ்ரேல், தைவான், தென் கொரியா, ஜப்பான் மற்றும் அமெரிக்கா போன்றநாடுகள் ஆதிக்கம்செலுத்துகின்றன. உலகளாவிய போட்டியாக மாற, இந்தியா உயர் தொழில்நுட்பக் கூறுகள் உற்பத்தியை விரும்புவதாக்க வேண்டும். ஆர்-டி நிறுவனங்களை மேம்படுத்தவேண்டும்மற்றும் உலகளாவியதொழிலுடன் நலவாய்களுடன்நுவோபாய கூட்டாண்மைகளை உருவாக்க வேண்டும்.

இந்தியாவில் தலைமை விரும்பினராக தமிழக தொழில்துறை அமைச்சர் டாக்டர் பழனிவேல் தியாகராஜன் பங்கேற்றார். ELCINA ஏற்பாடு செய்த 'எலக்ட்ரானிக்ஸ் சப்ளை செயின்' 2025 நிகழ்வில் தமிழக அரசை பிரதிநிதித்துவப்படுத்துவதில் அவர் மிகுந்த மகிழ்ச்சியை வெளிப்படுத்தினார்.

சோர்ஸ் இந்தியா எலக்ட்ரானிக்ஸ் சப்ளை செயின்" 2025 கண்காட்சியின் 14-வது பதிப்பு

தமிழக தகவல் தொழில்நுட்பம் மற்றும் டிஜிட்டல் சேவைகள் துறை அமைச்சர் டாக்டர் பழனிவேல் தியாகராஜன் பங்கேற்றார்

சென்னை: இந்தியாவில் வேகமாக வளர்ந்து வரும் எலக்ட்ரானிக்ஸ் துறைக்கு ஒரு முக்கிய தருணத்தை குறிக்கும் வகையில், சோர்ஸ் இந்தியா - எலக்ட்ரானிக்ஸ் சப்ளை செயின் 2025 கண்காட்சியின் 14-வது பதிப்பு சென்னை வர்த்தக மையத்தில் பிப்ரவரி 18 ஆம் தேதி தொடங்கியது. எலக்ட்ரானிக்ஸ் இண்டஸ்ட்ரீஸ் அசோசியேஷன் ஆஃப் இந்தியா (ELCINA) ஏற்பாடு செய்த இந்த மதிப்புமிக்க நிகழ்வு இந்தியாவின் எலக்ட்ரானிக்ஸ் சப்ளை செயின்களை முன்னேற்றுவதற்கும், இந்த துறையில் நிலையான வளர்ச்சியை ஏற்படுத்துவதற்கும் 150-க்கும் மேற்பட்ட கண்காட்சியாளர்கள், தொழில் தலைவர்கள் மற்றும் 3000-4000 பிரதிநிதிகள் மற்றும் பார்வையாளர்களை ஒன்றிணைத்தது.

இந்நிகழ்வில் தலைமை விருந்தினராக தமிழக தொழில்துறை அமைச்சர் டாக்டர் தா.மோ.அன்பரசன் கலந்து கொண்டு சிறப்புரை ஆற்றினார். தைவான், சிங்கப்பூர், ரஷ்யா மற்றும் ஜப்பான் ஆகிய நாடுகளை சேர்ந்த வெளிநாட்டு நிறுவனங்கள் பங்கேற்றுள்ளன.

முதல் நாள் நிகழ்வில் தலைமை விருந்தினராக கலந்து கொண்ட மாண்புமிகு தமிழ்நாடு தொழில்துறை அமைச்சர் டாக்டர் டி.ஆர்.பி. ராஜா, தமிழகம் மற்றும் பரந்த எலக்ட்ரானிக்ஸ் துறைக்கான தனது தொலைநோக்கு பார்வையை பகிர்ந்து கொண்டார்.

சோர்ஸ் இந்தியா கண்காட்சி 14-வது பதிப்பின் இரண்டாம்நாள் நிகழ்வில் தமிழகதகவல்தொழில்நுட்பம் மற்றும் டிஜிட்டல் சேவைகள் துறை அமைச்சர் டாக்டர் பழனிவேல் தியாகராஜன் பங்கேற்றார். ELCINA ஏற்பாடு செய்த 'எலக்ட்ரானிக்ஸ் சப்ளை செயின்' 2025 நிகழ்வில் தமிழக அரசை பிரதிநிதித்துவப்படுத்துவதில் அவர் மிகுந்த மகிழ்ச்சியை வெளிப்படுத்தினார்.

14th Edition of "Source India – Electronics Supply Chain" 2025: Enhancing the Electronics Supply Chain

Chennai, 19th February 2025 : The 14th edition of Source India Electronics Supply Chain 2025 commenced today at the Chennai Trade Centre, signaling a pivotal moment for India's rapidly growing electronics industry. Organized by the Electronics Industries Association of India (ELCINA), this prestigious event brings together over 150 exhibitors, industry leaders, and 3000-4000 delegates and visitors to advance India's Electronics Supply Chain and drive sustained growth in the sector.

With consistent and strong support since 2009 from the Ministry of Industries, Tamil Nadu, Source India has grown into a robust platform that connects businesses across the Electronics System Design & Manufacturing (ESDM) ecosystem. The event's focus this year is on "Enhancing the Electronics Supply Chain: Catalyzing Value Addition for a Resilient Electronics Sector", with participation by overseas companies from Taiwan, Singapore, Russia and Japan.

India's electronics industry has seen remarkable growth, with its output rising from USD 37 billion in FY 2015-16 to over USD 115 billion in FY 2023-24. Exports have surged to approximately USD 29 billion in FY 2023-24, contributing to the creation of nearly 2 million jobs within industry. However, India's electronics market still constitutes a limited 4% share of the global market, valued at USD 4.3 trillion. This is dominated by countries such as China, Taiwan, South Korea, Japan and USA. To become globally competitive, India must localize high-tech component manufacturing, enhance R&D capabilities, and form strategic partnerships with global technology leaders.

சென்னையில் சோர்ஸ் இந்தியா எலக்ட்ரானிக்ஸ் சப்ளை செயின் 2025 கண்காட்சியின் 14வது பதிப்பு

சென்னை, பிப். 20 இந்தியாவில் வேகமாக வளர்ந்து வரும் எலக்ட்ரானிக்ஸ் துறைக்கு ஒரு முக்கிய தருணத்தை குறிக்கும் வகையில், சோர்ஸ் இந்தியா எலக்ட்ரானிக்ஸ் சப்ளை செயின் 2025 கண்காட்சியின் 14வது பதிப்பு இன்று சென்னை வர்த்தக மையத்தில் தொடங்கியது. எலக்ட்ரானிக்ஸ் இண்டஸ்ட்ரீஸ் அசோசியேஷன் ஆஃப் இந்தியா (ELCINA), ஏற்பாடு செய்த இந்த மதிப்புமிக்க நிகழ்வு, இந்தியாவின் எலக்ட்ரானிக்ஸ் சப்ளை செயின்களை முன்னேற்றுவதற்கும், இந்த துறையில் நிலையான வளர்ச்சியை ஏற்படுத்துவதற்கும் 150க்கும் மேற்பட்ட கண்காட்சியாளர்கள், வீதொழில் தலைவர்கள்மற்றும் 3000 - 4000 பிரதிநிதிகள் மற்றும் பார்வையாளர்களை ஒன்றிணைக்கிறது.

2009 ஆம் ஆண்டு முதல் தமிழ்நாட்டின் தொழில்துறை அமைச்சகத்தின் நிலையான மற்றும் வலுவான ஆதரவுடன், எலக்ட்ரானிக்ஸ் சிஸ்டம்உற்பத்தி-உற்பத்தி(ESDM) சுற்றுச்சூழல் அமைப்பு முழுவதும் வணிகங்களை இணைக்கும் ஒரு வலுவான தளமாக சோர்ஸ் இந்தியா வளர்ந்துள்ளது. இந்த ஆண்டின் நிகழ்வானது "எலக்ட்ரானிக்ஸ்சப்ளை செயினை மேம்படுத்துதல்: மீள்தன்மை கொண்ட எலக்ட்ரானிக்ஸ் துறைக்கான மதிப்பு கூட்டலை ஊக்குவித்தல்" என்பதில் கவனம் செலுத்துகிறது. இதில் தைவான், சிங்கப்பூர், ரஷ்யா மற்றும் ஜப்பான் ஆகிய நாடுகளை சேர்ந்த வெளிநாட்டு நிறுவனங்கள் பங்கேற்கின்றன.

సాక్షి

సత్కారం

సోర్స్ ఇండియా 14వ ఎడిషన్ ఎక్స్‌పోలో బుధవారం రాష్ట్ర ఐటీ మంత్రి పళని వేల్ త్యాగరాజన్ పాల్గొని ప్రత్యేక ప్రసంగం చేశారు. అత్యాధునిక సాంకేతికత, ప్రభుత్వ సహకారం, వంటి అంశాల గురించి విశదీకరించారు. ఈ సందర్భంగా మంత్రిని నిర్వాహకులు సత్కరించారు.

- సాక్షి, చెన్నై

TAMIL NADU MINISTER DR. PALANIVEL THIAGARAJAN HIGHLIGHTS IMPORTANCE OF ELECTRONICS SECTOR

Chennai: On the second day of Source India's 14th edition, Dr. Palanivel Thiagarajan, Minister of Information Technology and Digital Services of Tamil Nadu, emphasized the significance of the electronics sector in India's growth. He expressed his delight at representing the Tamil Nadu government at the "Electronics Supply Chain" 2025 event.

Dr. Thiagarajan stressed that India must become self-reliant and keep up with cutting-edge technology to enhance its competitiveness. He also highlighted the crucial role of component manufacturers in achieving national ambitions. "We need to make India an electronic exporting country. If we become a net exporting country, that in itself will become our political strength," he concluded.

The event, organized by ELCINA, has brought together over 150 exhibitors, industry leaders, and 3000-4000 delegates and visitors to advance India's Electronics Supply Chain and drive sustained growth. With consistent support from the Ministry of Industries, Tamil Nadu, since 2009, Source India has evolved into a robust platform connecting businesses across the Electronics System Design & Manufacturing (ESDM) ecosystem.This year's focus is on "Enhancing the Electronics Supply Chain: Catalyzing Value Addition for a Resilient Electronics Sector," featuring participation from overseas companies. India's electronics industry has witnessed remarkable growth, with output rising from USD 37 billion in FY 2015-16 to over USD 115 billion in FY 2023-24. Exports have surged to approximately USD 29 billion in FY 2023-24, creating nearly 2 million jobs.However, India still constitutes a limited 4% share of the global electronics market. To become globally competitive, India must localize high-tech component manufacturing, enhance R&D capabilities, and form strategic partnerships with global technology leaders.

உத்யோக் மந்த்ரி டிஆர்பி ராஜா நே கஹா

தமிலனாடு இலெக்ட்ரானிக்ஸ் உத்பாதன் பட்ஹாகர் கரேகா 100 அரப் டாலர்

வேலூர் க்கே 308 ஸ்கூல் காலேஜ்கள் மே

சோர்ஸ் இந்தியா எலக்ட்ரானிக்ஸ் சப்ளை செயின் 2025 கண்காட்சியின் 14-வது பதிப்பு

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MEMBERS' SECTION

Dubai Taxi Corporation Switches to Matrix Contactless Access Control Solutions

Dubai Taxi Corporation (DTC) Limousine Service with user base of 3500 users offers a luxury chauffeur-driven vehicle designed to cater to the needs of visitors, business professionals, and the tourism industry. Their services prominently support hotels, tour operators, airlines, corporate clients, and government agencies. Operating 24/7, they aim to offer enriched transport services across Dubai and other Emirates.

Challenges Faced

With the increasing demand for hygiene and touchless services amid the pandemic, DTC required solutions that:

- Provided touchless access for enhanced safety
- Ensured quick and seamless service
- Allowed tracking of drivers accessing accommodations

Proposed Solution

To address these concerns, Matrix recommended a Face Recognition-based Access Control Solution that seamlessly integrated with IP cameras. This setup not only provided contactless access but also ensured efficient tracking of driver movements within the facility.

Products Offered

1. **COSEC VEGA CAX** – Advanced Face Recognition-based Door Controller
2. **SATATYA IP Camera** – High-quality surveillance for monitoring access points
3. **COSEC CENTRA Platform** – Centralized access control and monitoring system
4. **COSEC CENTRA FR** – Facial Recognition Users' Database Management
5. **COSEC CENTRA ACM** – Access Control Software Module for streamlined operations

Key Features Implemented

- **Touchless Access Control** – Enhanced hygiene and safety
- **Seamless Integration with IP Cameras** – For real-time monitoring
- **Turnstile Integration** – Prevents unauthorized tailgating
- **Swift and Efficient Access Control** – Ensures smooth entry and exit

Results Achieved

By deploying Matrix's Contactless Access Control Solutions, Dubai Taxi Corporation successfully achieved the following:

- Hygienic and secure access control with face recognition technology
- Faster and more efficient entry management
- Accurate tracking of driver accommodations
- Minimized unauthorized access risks

MEMBERS' SECTION

India's Security Innovations Take Global Stage: Sparsh CCTV at IndiaSoft 2025

IndiaSoft 2025, co-located with the India Electronics Expo and Convergence India Expo, emerged as a global hub for technological advancements, bringing together over 1,500 IT and tech companies and international delegates from across the world. As a premier networking event, it provided a dynamic platform for industry leaders to explore cutting-edge innovations, foster strategic alliances, and highlight India's growing leadership in technology and security.

Sparsh CCTV: Leading the Way in Innovation & Security

Sparsh CCTV, India's pioneering brand in surveillance solutions, made a powerful impact at IndiaSoft 2025. Sparsh showcased its latest indigenous security solutions, reaffirming its commitment to innovation, cyber-secure surveillance, and AI-powered security technologies. The company's presence at the event set new benchmarks in the industry, reinforcing India's position as a global leader in electronic security solutions.

Mr. Sanjeev Sehgal, Founder & MD of Sparsh CCTV, engaged in insightful discussions with business leaders, technology experts, and policymakers from around the world, emphasizing India's potential as a key hub for electronic security and surveillance technology.

Representatives from **Russia, Japan, Africa, Bhutan, Korea, and other countries witnessed Made in India** security solutions are shaping the future of surveillance worldwide.

Sparsh CCTV reinforced its leadership in smart surveillance with an impressive lineup of **AI-powered and cyber-secure security solutions** designed for global applications. Key highlights included:

- Intelligent Traffic Management System (ITMS)
- AI-Driven Smart Cameras (Gold & Silver Series)
- Advanced Mobility Surveillance
- 4G/5G/Wi-Fi Surveillance

These innovations position Sparsh CCTV at the forefront of the global surveillance industry, addressing evolving security challenges with **state-of-the-art AI-driven solutions**.

"*We are incredibly proud to represent India's technological excellence on a global platform. The enthusiasm and engagement from international partners validate our mission to build a smarter, safer world with indigenous security solutions*," said Mr. Sanjeev Sehgal, Founder & MD, Sparsh CCTV.

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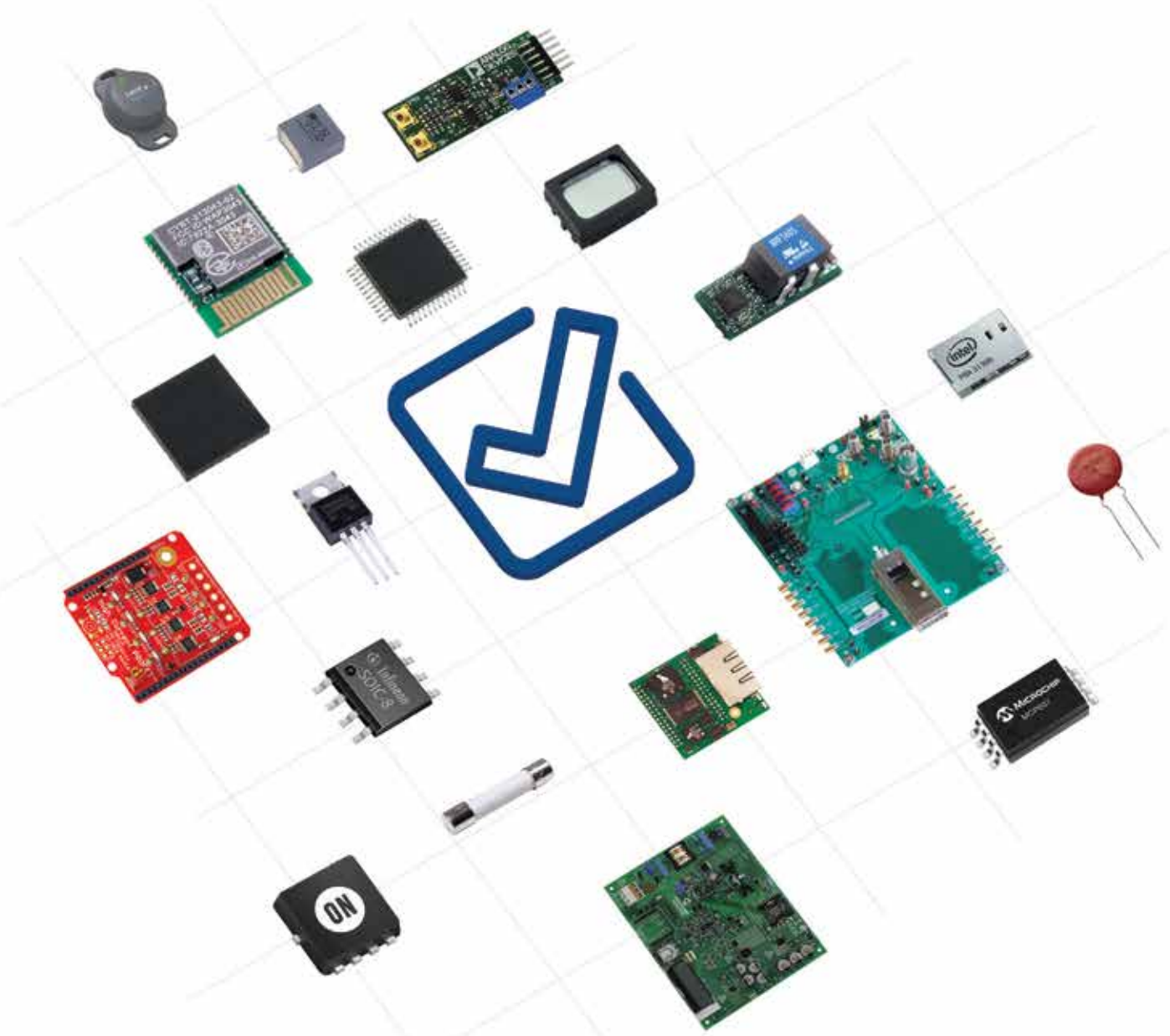

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