

# IPCA e-Newsletter

Vol.2



OCT 2024

INDUSTRY NEWS - GENERAL

## Consumer Electronics

### India set to source entire mobile phone needs locally by fiscal year-end as Apple, Google ramp up production

India is likely to start sourcing its entire mobile phone needs locally by the end of this fiscal year, with Apple started manufacturing of iPhone Pro and Pro Max models last week and Alphabet's Google producing its Pixel handsets in the country. The surge in local manufacturing, including premium handsets, has significantly reduced the need for imports, officials told ET. With Apple announcing production of iPhone 16 Pro and Pro Max models from India, the final steps which indicate the success of smartphone production-linked incentive (PLI) scheme are in place. Till FY24, imports comprised nearly 3% of smartphones sold in the domestic market by value, primarily the Pro models of iPhones, and Google's Pixel.



**Source:** By Kiran Rathee, <https://economictimes.indiatimes.com/>, October 10, 2024

## Telecom

### India to allot satellite internet spectrum via administrative method



Spectrum for satellite services will be allocated administratively but this doesn't mean spectrum will come without a cost, Telecom Minister Jyotiraditya Scindia said today. The cost of spectrum and the formula of allocation will be decided by telecom regulator TRAI. "There is a paper that has already been circulated by TRAI and that regulatory authority of telecom has been empowered by the constitution to decide what administrative prices are going to be. And I am very confident that they will come up with the best prices that should be adopted, provided they are under administrative demand," the minister said during a press briefing in the India Mobile Congress. The Telecom Act 2023, passed in December last year, has very clearly stated that Satcom spectrum will be allocated via administrative route.

**Source:** <https://economictimes.indiatimes.com/>, October 15, 2024



## Rajasthan emerges as promising region in consumer electronics category on Amazon

Jaipur, Rajasthan has emerged as one of the most promising regions for the consumer electronics category on Amazon, a company official said. Amazon.in has reported a response from consumers in Jaipur and Rajasthan across the Consumer Electronics category during the festive season. Notably, the smartphone segment has experienced robust double-digit growth, with new smartphone buyers growing by 60 per cent, positioning Jaipur as one of the top-performing regions. As one of the biggest markets for music, Jaipur has also witnessed a growth of 25 per cent year-on-year for the consumer electronics segment. In addition, laptops and tablets surged by 25 per cent, while large-screen TVs saw a remarkable growth of over 50 per cent.

**Source:** <https://economictimes.indiatimes.com/>, October 12, 2024

## PM Modi On India's Rapid Telecom Advancements and Global Impact



During the ITU World Telecommunication Standardization Assembly in Delhi, Prime Minister Narendra Modi delivered an inspiring address highlighting India's rapid advancements in the telecom sector. He emphasized that India has emerged as a dynamic hub for telecommunications and technology, boasting an impressive 1.2 billion mobile phone users and 950 million internet users. Modi noted that over 40% of the world's real-time digital transactions occur in India, showcasing the nation's growing significance in the global digital economy. He stated that digital connectivity is not only a vital tool for last-mile delivery but also a means to foster global collaboration and progress. By leveraging its extensive digital infrastructure, India is poised to contribute meaningfully to the future of global telecommunications. Modi's vision underscores the country's commitment to ensuring that discussions at the assembly translate into actionable strategies for enhancing connectivity, accessibility, and technology for the greater good of the global community.

**Source:** <https://www.businesstoday.in/>, October 15, 2024

## BSNL 5G set to roll out in June 2025, Telecom Minister announces; 38,300 4G sites now live

BSNL users, who have long been waiting for 4G, will soon be able to enjoy the benefits of 5G service. Union Telecom Minister Jyotiraditya Scindia recently revealed the launch date for Bharat Sanchar Nigam Limited's 5G service. During an event held on Monday, October 14, the Union Minister stated that the preparations for BSNL's 5G service have been completed. The government-owned telecom company is in the process of installing thousands of mobile towers to upgrade the network infrastructure across the country. According to Union Telecom Minister Jyotiraditya Scindia, the company is on track to launch the 5G network by June 2025. Speaking at the US-India Strategic Partnership Forum ITUW TSA, he emphasised that India has been following the world's footsteps in 4G, is progressing alongside the global advancements in 5G, and aims to lead the world in 6G technology.



**Source:** <https://www.indiatvnews.com/>, October 15, 2024



## EV's & Auto Electronics

### SIAM President: Phase Out EV Subsidies At 20% Penetration

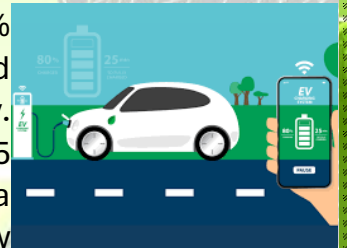


Shailesh Chandra, the new president of the Society of Indian Automobile Manufacturers, suggests that government subsidies for electric vehicle buyers should be phased out when penetration in a specific vehicle category reaches 20%. Chandra believes these subsidies should remain until a substantial number of consumers have adopted the technology, enhancing its acceptance through positive word-of-mouth. He anticipates that as production scales up and costs decrease, subsidies will no longer be necessary. Chandra, also the Managing Director of Tata Motors Passenger Vehicles and Tata Passenger Electric Mobility, observed that costs are declining due to cheaper cell technology, increased local production, and higher production volumes.

**Source:** By Aryaman Raghuvanshi, <https://www.electronicstoday.com/>, October 15, 2024

### Global EV sales up 30.5% in September as China shines, Europe recuperates

Global sales of fully electric and plug-in hybrid vehicles rose by an annual 30.5% in September, as China surpassed its record numbers recorded in August and Europe resumed growth, market research firm Rho Motion said on Tuesday. Gains in the U.S. market have been slow and steady in anticipation of the Nov. 5 election, which makes it difficult to predict future trends in the country, data manager Charles Lester told Reuters. Chinese carmakers are seeking to grow their sales in the EU despite import duties of up to 45% and amid cooling global demand for electric cars. Chinese and European automakers were going head-to-head at the Paris car show on Monday. Sales in China jumped 47.9% in September and reached 1.12 million vehicles, while in the United States and Canada they were up 4.3% to 0.15 million.



**Source:** <https://www.livemint.com/>, October 15, 2024

### Hero Electric seeks to settle subsidy misappropriation case with Centre



Hero Electric has approached the Ministry of Heavy Industries (MHI) seeking settlement of ongoing disputes and release of pending electric vehicle (EV) subsidies, officials told ET. The electric two-wheeler maker has agreed to cough up penalty for any violation or lack of compliance. "Hero Electric has approached us seeking a resolution of their pending issues...We are examining their request," a senior government official said. Hero Electric, led by Naveen Munjal, was a beneficiary of MHI's Faster Adoption and Manufacturing of Electric Vehicles in India Phase II (FAME India Phase II) scheme. It, along with five others, was later found to be in violation of mandatory localisation norms and faced a government clampdown after a probe. The government subsequently sought refund of subsidies from these EV makers, claiming it was wrongfully availed.

**Source:** By Twesh Mishra, <https://economictimes.indiatimes.com/>, October 14, 2024



## Hyundai, Kia Outlines Strategy to Sell 1,20,000 EVs In India Before 2024 Ends

The South Korean global carmakers Kia and Hyundai seemed to have regained their strong momentum again with a plan to sell more than 100,000 electric vehicle units in the country by the end of this October. According to Yonhap news agency, both companies were reported to have sold around 91,348 units from January to September, which highlights an escalation of 30 percent compared to the previous year. Hyundai Motor Group owns a portion of Kia Motors, and Kia has a stake in some of Hyundai's subsidiaries. Together, they outline strategies to boost the growth of EVs globally. As per the report, sales of Hyundai's EV units augmented by 4.5 percent year-on-year to 48,297 units, while Kia experienced a sharp 80.3 percent growth, reaching 43,051 units. Automobile research experts believe products that both companies together can surpass sales beyond 1,20,000 by the end of this year.



**Source:** <https://www.electronicstoyou.biz/>, October 14, 2024

## Defence & Solar

### India signs deal with US to procure 31 Predator drones

India will procure 31 Predator drones from the US Défense major, General Atomics, under a government-to-government framework, officials said on Tuesday. The two countries today signed the much-anticipated deal. The Indian Navy will get 15 Sea Guardian drones whereas the Indian Air Force and Army will receive eight Sky Guardian drones each. Under the ₹32000 crore deal, a maintenance, repair and overhaul facility will also be launched in India. The deal was signed by both sides in the presence of senior officials. The Cabinet Committee on Security (CCS) approved the acquisition of 31 Predator drones last week. The American team of military and corporate officials are in India for the inking of these contracts.

**Source:** <https://www.hindustantimes.com/>, October 15, 2024

### Gagan Yaan Docking test likely before Dec 15

The Indian Space Research Organisation (ISRO) is planning to conduct its Space Docking Experiment (Spadex) mission before December 15, 2024. This docking test is a crucial step in the preparations for the Gagan Yaan mission, which aims to send humans into space. The Gagan Yaan mission is India's ambitious human spaceflight program, aiming to send astronauts into low Earth orbit. A critical component of this mission is the ability to dock spacecraft in space, which is essential for future missions, including the planned Chandrayaan-4 lunar sample return mission. The Indian Space Research Organisation (ISRO) has been working on a precursor mission known as the Space Docking Experiment (Spadex), which is designed to demonstrate docking capabilities. According to ISRO chairman S Somanath, the Spadex mission involves launching satellites in two separate components that will rendezvous and dock in space to form a single operational unit. This capability is vital for India's long-term goals, including constructing its own space station.

**Source:** <https://www.indiandefensenews.in/>, October 15, 2024





# MSME

## 43% New Applicants in MSME Sector for PLI White Goods

The 3rd Round of on-line application window for PLI Scheme for White Goods (Air Conditioners and LED lights) has attracted 38 responses with a net committed investment of Rs 4121 crore ended on 12th October 2024 after being open for 90 days from 15th July 2024. 43% of the new applicants are in the MSME sector which shows the confidence among MSMEs to become part of the value chain of manufacturing of components of ACs and LED Lights. The PLI scheme was launched by the Department for Promotion of Industry and Internal Trade (DPIIT). The applicants include 8 existing beneficiaries of the Production Linked Incentive Scheme for White Goods (PLIWG) committing net incremental investment of Rs 1,285 crore. 30 new applicants have committed investment of Rs 2,836 crore proposing to manufacture varieties of critical components of ACs and LED Lights across India.

**Source:** <https://smestreet.in/limelight/>, October 15, 2024

## 'MSMEs key to achieve USD Five trillion economy': MP Suresh Prabhu

The Andhra Pradesh Chambers of Commerce and Industry Federation (AP Chambers) hosted an interactive session in Vijayawada with former Union Minister and Rajya Sabha MP Suresh Prabhu, Indian Chamber of Commerce (ICC) President Ameya Prabhu, and ICC Director General Rajeev Singh. AP Chambers President Potluri Bhaskara Rao stressed that the MSME sector, the backbone of the economy, faces challenges due to the Covid-19 pandemic, the Russia-Ukraine and Israel-Gaza wars, high production costs, expensive financing, poor market linkages, and delayed payments. MSME exports have declined, labour productivity is low, and many MSMEs have closed in the past five years. He urged Suresh Prabhu to address these issues with the Union government and expressed optimism about the potential for upskilling and technology adoption to boost the sector.

**Source:** <https://www.newindianexpress.com/>, October 15, 2024

## SBI plans to enhance threshold limit under instant loan scheme for MSME sector

To ensure easy and adequate credit availability to the MSME sector, the State Bank of India (SBI) is planning to enhance the threshold under the instant loan scheme from the existing Rs 5 crore. 'MSME Sahaj - End to End Digital Invoice Financing', provides solutions ranging from applying for the loan, documentation and disbursement of the sanctioned loan within 15 minutes, without any manual intervention. The bank also introduced a business rule engine based; data-based assessment of the credit limits up to Rs 5 core. Anybody walking into our MSME branch must give only their PAN and approval for sourcing GST data, we can give approval in 15-45 minutes. Simplification of the MSME credit is something that the bank is emphasising on and making lending cash flow based backed by the CGTMSE guarantee.

**Source:** <https://economictimes.indiatimes.com/>, October 13, 2024



## POLICY MATTERS – OCT 2024

### 1. Notification No. 06/2024-Customs (CVD) Dated 4th October 2024:

The **Ministry of Finance** has issued a notification extending the **countervailing duty (CVD)** on imports of **Continuous Cast Copper Wire Rod** from **Indonesia, Malaysia, Thailand, and Vietnam**. This duty, originally imposed in 2020, is being continued following a review initiated by the Directorate General of Trade Remedies (DGTR) on **29th June 2024**.

#### **Key points:**

- The CVD on the subject goods under **Customs heading 7408** will now remain in effect until **7th July 2025**, unless further modified or revoked
- This extension is based on the ongoing review of the duty's necessity under the provisions of the **Customs Tariff Act, 1975** and related rules.

The extension aims to protect domestic industry from subsidized imports from the subject countries. For more details, members are advised to refer to the official CBIC website.

### 2. DGFT Trade Notice No. 20/2024-25 dated 7th October 2024: Import/Re-import of Exhibits and Samples

The DGFT has clarified the requirements for the import and re-import of "Exhibits and Samples" related to exhibitions.

#### **Key points:**

- **No Authorization Required:** Import and re-import of exhibition goods of Indian origin sent abroad for display can be conducted without prior import authorization or registration under the Import Monitoring Systems.
- **Compliance with HBP:** These imports must comply with conditions outlined in Para 2.60 of the Handbook of Procedures (HBP) 2023, which includes submitting a bond/security to Customs or using an ATA Carnet.
- **Purpose:** This Trade notice aims to streamline the import process for goods used in demonstrations, displays, and exhibitions in India or abroad.

This clarification is intended to facilitate smoother operations for stakeholders in the electronics sector participating in global exhibitions, thereby enhancing their market visibility and opportunities for growth.

For more details, members are advised to refer to the official DGFT website

### 3. DGFT Public Notice No. 26/2024-2025 dated 7th July 2024: Amendment in Appendix 10M for GAICT of SCOMET Items

The DGFT has announced amendments to Appendix 10M of the Handbook of Procedures under the Foreign Trade Policy (FTP) 2023, expanding the scope of the Global Authorization for Intra-Company Transfer (GAICT) for SCOMET items, software, and technology.

#### Key points:

- **Expansion of GAICT Coverage:** The amended policy now includes additional items under SCOMET Category 8, facilitating easier export and re-export of these goods.
- **Liberalized Policy:** The changes are aimed at supporting intra-company transfers of SCOMET items to specific countries listed in the relevant guidelines, enhancing operational efficiency for companies dealing with sensitive technologies.

This amendment is expected to streamline processes and bolster the capabilities of Indian enterprises involved in high-tech sectors, including **electronics, defense, and telecommunications**.

For further details, members are advised to refer to the official DGFT website.

### 4. RBI Circular No. DOR.STR.REC.45/04.02.001/2024-25 dated 9th October 2024: Interest Equalization Scheme (IES) Extension for Export Credit

The Reserve Bank of India (RBI) has issued an update regarding the Interest Equalization Scheme (IES) for Pre and Post Shipment Rupee Export Credit, following the extension announced by the Government of India.

#### Key points:

- **Extension of the Scheme:** The IES for Pre and Post Shipment Rupee Export Credit has been extended for three months, now effective until **December 31, 2024**.
- **Fiscal Benefits for MSMEs:**
  - The total fiscal benefits available to each Micro, Small, and Medium Enterprise (MSME) manufacturer exporter is capped at **₹50 lakhs** for the Financial Year 2024-25, valid until December 31, 2024.
  - MSMEs that have already availed benefits of **₹50 lakhs or more** in this financial year (up to September 30, 2024) will not be eligible for further benefits during the extended period.
- **Continuity of Provisions:** All other terms and conditions related to the IES remain unchanged.

For further details, members are encouraged to refer to the existing RBI circular and DGFT Trade Notice No. 18/2024-2025 dated 20<sup>th</sup> September 2024 and DOR.STR.REC.45/04.02.001/2024-25 dated 9<sup>th</sup> October 2024.



## 5. GST Circular No. 236/30/2024-GST dated 11th October 2024: Clarification regarding the scope of “as is / as is, where is basis” mentioned in the GST Circulars issued based on recommendation of the GST Council in its meetings

The Ministry of Finance, Department of Revenue (Tax Research Unit) has issued Circular No. 236/30/2024-GST to clarify the application of the "as is / as is, where is" principle concerning GST payments. This clarification comes in response to ongoing confusion among taxpayers and tax authorities regarding GST regularization.

### Key points:

- **Regularization Under “As Is / As Is, Where Is”:** The Circular confirms that payments made at lower GST rates or claimed as nil due to doubts will be accepted as full discharge of tax liability. Taxpayers who paid higher rates will not be eligible for refunds.
- **Guidance from the GST Council:** The Council has clarified this approach, particularly in cases with competing GST rates, to ensure fair treatment for all taxpayers who acted in good faith.
- **Examples for Clarity:**
  - If some taxpayers paid 5% GST while others paid 12%, those who paid 5% will not need to cover the 7% difference if the Council retrospectively sets the rate to 5%.
  - In situations where some claimed nil duty due to genuine doubts, both groups will be treated as having fulfilled their tax obligations.

For further details, members are advised to refer to the official CBIC website regarding the GST Circular No. 236/30/2024-GST dated 11<sup>th</sup> October 2024.

## 6. GST Circular No. 238/32/2024-GST dated 15th October 2024: Clarification of various doubts related to Section 128A of the CGST Act, 2017

The Government of India, Ministry of Finance has released Circular No. 238/32/2024-GST to provide clarifications regarding Section 128A of the Central Goods and Services Tax (CGST) Act, 2017, which allows for the waiver of interest or penalties for certain demands.

### Key points:

- a) **Effective Date:** Section 128A is effective from November 1, 2024. It pertains to demands issued under Section 73 for the financial years 2017-18, 2018-19, and 2019-20, with specified conditions.
- b) **New Rule Introduced:** Rule 164 of the CGST Rules, effective November 1, 2024, outlines the procedures and conditions for closing proceedings under Section 128A.
- c) **Payment Deadlines:**
  - a. Full payment of the tax demanded must be completed by March 31, 2025, to avail of the waiver benefits.
  - b. For redetermination cases under Section 73, taxpayers must pay the demanded tax within six months of the issuance of the order.

The Circular addresses various doubts raised by the trade and field formations regarding the application of Section 128A, aiming to ensure uniformity in implementation across jurisdictions

For further details, members are advised to refer to the official CBIC website regarding the GST Update: Circular No. 238/32/2024-GST dated 15<sup>th</sup> October 2024.



## 7. GST Circular No. 237/31/2024 dated 15th October 2024: Clarifying the issues regarding implementation of provisions of sub-section (5) and sub-section (6) in section 16 of CGST Act, 2017

The CBIC has issued Circular No. 237 to clarify the implementation of revised provisions under section 16 of the CGST Act, 2017, effective from July 1, 2017. The amendments, introduced via the Finance (No. 2) Act, 2024, retrospectively extend the time limit for availing Input Tax Credit (ITC) for specific financial years (2017-18 to 2020-21) until November 30, 2021.

### Key points:

**ITC Eligibility:** Registered persons can claim ITC for invoices/debit notes from the specified financial years, subject to timely filing of returns.

- **Cancellation and Revocation of Registration:** Taxpayers whose registrations are revoked can reclaim ITC if it was not restricted on the cancellation date.
- **No Refund Policy:** Refunds for tax paid or ITC reversed will not be granted under the new provisions.
- **Rectification Procedure:** A special rectification process is available for those affected by demands for wrong ITC claims, allowing applications within six months.

This circular aims to ensure uniform implementation across the tax authorities and provide clarity on the amended provisions.

For further details, members are advised to refer to the official CBIC website regarding the GST Circular No. 237/31/2024 dated 15<sup>th</sup> October 2024.

## 8. \*Term 'manufacture' in exemption notifications subjected to IGCR conditions, must be interpreted only in terms of IGCR Rules\*

The CESTAT, New Delhi while dealing with eligibility of the assessee to avail exemption benefit under Notification 50/2017-Cus., has observed that the term 'manufacture' used at Sl. No. 512 of the notification, must be interpreted in view of the Customs (Import of Goods at Concessional Rate of Duty or for Specified End Use) Rules, 2022 ('IGCR').

In the said case, the assessee was importing raw materials for manufacture of Lithium-ion battery packs while availing concessional rate of Basic Customs Duty at Sl. No. 512. The Department rejected the claim holding that said entry was limited to import of inputs used in the 'manufacture' of 'Lithium-ion batteries' only and no other goods, such as battery packs which were the final products of the assessee.

It was held that the term 'manufacture' at Sl. No. 512 ought to be interpreted in accordance with IGCR, wherein the Rules only require emergence of a new distinct product because of manufacturing. The term 'manufacture' cannot be interpreted to only mean the 'final product'. Since the assessee was undertaking manufacture of 'Lithium-ion batteries' even as an intermediate product, same would qualify as manufacture in terms of IGCR. Further, it observed that there was no requirement at Sl. No. 512 that manufactured 'lithium-ion battery' ought to be the finished product for the assessee to avail exemption. [XOR Technologies Ltd. v Principal Commissioner - 2024 VIL 1243 CESTAT DEL CU].



# INDIA - PCB INDUSTRY NEWS

## Indian Government Approves Fifth Semiconductor Factory

### News Briefing

- In early September, the Indian government approved the establishment of a semiconductor packaging and testing factory by Kaynes Semicon in Sanand, Gujarat. The investment amounts to INR 33 billion, with an estimated daily output of 6 million units. The products will be widely used in industries such as automotive, electric vehicles, consumer electronics, telecommunications, and mobile phones.

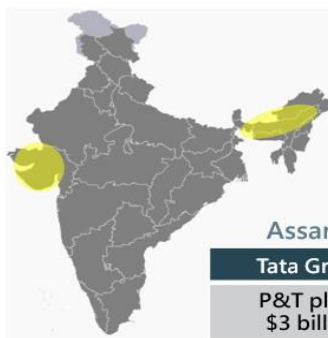
### Impact analysis

- India's "Made in India" initiative, which initially focused on end-product assembly, has steadily progressed toward upstream semiconductor development. This shift largely began with the proposal of the "Semiconductor and Display Manufacturing Ecosystem Development Plan" in late 2021. Since then, various companies have submitted applications to set up factories. From Micron's first project in 2023 to the recent Kaynes Semicon, the Indian government has approved a total of one wafer plant and four packaging and testing plants to date, with most of them expected to begin mass production after 2025.
- In general, India, like other countries, has recognized the growing importance of semiconductors. Although India's supply chain lacks the completeness seen in countries like Japan and Malaysia, its strong development in downstream end-product assembly has become a key advantage in moving towards upstream components. With five investment projects approved in just over a year, India seems eager to catch up. At present, most of the approved projects are packaging and testing plants, which are closer to downstream operations.
- While it remains to be seen whether India has enough hardware talent and infrastructure to support future mass production, the government's proactive stance and its past success in promoting end-product development suggest that this ambitious move could significantly impact the industry. If all goes smoothly, the global landscape of the substrate industry could undergo some notable changes.

### Semiconductor Plants Approved by the Indian Government

#### GUJARAT

<b>Micron</b>
P&T plant, \$2.7 billion
Mass production in 2025
<b>Tata Group, UMC</b>
12-inch wafer fab, \$11 billion
Mass production by the end of 2026
<b>Renesas, Murugappa, Stars Microelectronics</b>
P&T plant, \$920 million
Mass production by the end of 2026
<b>Kaynes Semicon</b>
P&T plant, INR 33 billion
Mass production in 2025



#### Assam

<b>Tata Group</b>
P&T plant, \$3 billion
Mass production in mid-2025

\*P&T plant : Packaging and testing plant

Source : IEK



# THE WORLD NEWS - WHAT'S THE NEWS

## FOR PCB's



### **KPCA Show 2024 held from September 4 to 6 at Songdo Convensia, Incheon.**

With 15 countries, 242 companies, and 560 booths, KPCASHOW 2024 was an outstanding success. We are pleased to share that over the three days, the show attracted a total of 10,231 visitors, with 3,490 on September 4, 3,704 on September 5, and 3,037 on September 6.



The TPCA Show 2024 and the IMPACT 2024 were held from October 23 to 25 at the Taipei Nangang Exhibition Center, Hall 1, on the 1st and 4th floors. This year marked the 25th anniversary of the TPCA Show, setting a new record for exhibition scale. The exhibition area expanded by 30% compared to last year, featuring over 1,600 booths and attracting participation from 610 top global brands, with over 40,000 international professional buyers gathering under one roof.

This year's highlight theme, "Innovative AI in PCB," covered critical technology fields such as AI, 5G, high-speed computing, substrate technology, servers, base stations, net-zero carbon emissions, and electric vehicles, reflecting the latest technological trends and market dynamics in the electronics industry. Additionally, the concurrent IMPACT Conference centered on "IMPACT on Sustainable Technology" to explore advancements in sustainable development, cutting-edge packaging technologies, PCB manufacturing processes, and forums focused on achieving net-zero emissions in the PCB sector and global substrate carbon reduction innovations.

### **PCB Industry Expands into Thailand: TPCA Show Establishes Thailand Pavilion to Support Growth**

Driven by geopolitical factors and customer demand, the PCB industry has seen a strong wave of southward investment since late 2020, with Thailand emerging as a primary destination. Thailand now hosts a significant PCB industry chain, with new production capacities from major companies set to come online by the end of 2024. This expansion is anticipated to boost Thailand's PCB output and increase its global market share from 3% in 2020 to nearly 5% by 2025.



## Taiwan's PCB Industry Perseveres in Low-Carbon Transition, Substrate Innovations Drive Carbon Reduction

In 2023, TPCA unveiled Taiwan's PCB low-carbon transition strategy, setting ambitious net-zero targets: a 30% carbon reduction by 2030 and net-zero emissions by 2050, based on 2020 levels. Observational research, reinitiated this year, highlights that Taiwan's PCB industry is proactively advancing carbon accounting and self-directed carbon reduction, progressing ahead of its initial timeline. However, the industry still requires diverse low-carbon and renewable energy sources to lower Taiwan's energy intensity, addressing the high energy demands posed by ongoing expansions in advanced PCB and substrate manufacturing processes to meet long-term net-zero goals.

Supported by the Industrial Development Bureau's Electronics and Information Division, this year's exhibition will host the PCB Low-Carbon Advanced Forum, while the Department of Industrial Technology will oversee the Global Substrate Carbon Reduction Innovation Forum. These forums will bring to light Taiwan's PCB and substrate industry's urgent call for low-carbon transformation and its concrete actions towards a sustainable future.

### International Events

	<p><b>TPCA Show</b>  <b>23-25 October 2024</b>  <b>Taipei Nangang Exhibition Center</b>  <a href="https://tw.tpcashow.com/introtw/">https://tw.tpcashow.com/introtw/</a></p>
	<p><b>2024 CPCA SHOW PLUS</b>  <b>6-8 November 2024</b>  <b>Shenzhen World Exhibition &amp; Convention Center, China</b></p>
	<p><b>International Electronics Circuit Exhibition</b>  <b>4-6 December 2024</b>  <b>Shenzhen World Exhibition &amp; Convention Center (Bao'an), China</b>  <a href="https://www.hkpcashow.org/en/show/information">https://www.hkpcashow.org/en/show/information</a></p>
	<p><b>IPC APEX EXPO</b>  <b>18th-20th March 2025</b>  <b>Anaheim Convention Center</b>  <a href="https://www.ipcapexexpo.org/">https://www.ipcapexexpo.org/</a></p>
	<p><b>CPCA Show 2025</b>  <b>24- 26 March 2025</b>  <a href="http://www.cpcashow.com/en/index.asp">http://www.cpcashow.com/en/index.asp</a></p>
	<p><b>JPCA SHOW 2025</b>  <b>4-6 June 2025</b>  <b>Tokyo Big Sight, East Exhibition Hall</b></p>
	<p><b>THPCA SHOW 2025</b>  <b>20-22 August 2025</b>  <b>BITEC EH 99-100, Bangkok Thailand</b></p>
	<p><b>KPCA SHOW 2025</b>  <b>3-5 September 2025</b>  <b>Songdo Convensia Convention Center, Incheon, South Korea</b></p>



## Domestic Events

	ELECTRONICS EXPO 12th -14th DEC 2024 CHENNAI <a href="https://shorturl.at/2VFcu">https://shorturl.at/2VFcu</a>
	EV Asia Expo 12th – 14th February 2025 Gujarat <a href="https://www.evasia.in/">https://www.evasia.in/</a>
	ET Expo and Automotive Electronics & Testing Show 13th- 15th February 2025 Pune <a href="https://et-automotive.com/">https://et-automotive.com/</a>
	14th Source India 18th-19th February 2025 Chennai <a href="https://event.sourceindia-electronics.com/">https://event.sourceindia-electronics.com/</a>
	16th ELECAMA 2025 22nd- 26th February 2025 <a href="https://elecrama.com/">https://elecrama.com/</a>
	Convergence Expo 19th- 21st 2025 March New Delhi <a href="https://www.convergenceindia.org/">https://www.convergenceindia.org/</a>
	India Electronics Expo 2025 19th- 21st March 2025 Pragati Maidan Delhi <a href="https://www.indiaelectronicsexpo.com/">https://www.indiaelectronicsexpo.com/</a>

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## INDIAN PRINTED CIRCUIT ASSOCIATION (IPCA)

#2711, 2<sup>nd</sup> Main, HAL 3<sup>rd</sup> Stage, New Thippasandra,  
Bengaluru – 560 075, KARNATAKA STATE, INDIA

Tel: ☎ +91 80 2521 0109, 2521 0309

E-mail: ✉ [ipca@ipcaindia.org](mailto:ipca@ipcaindia.org); [babu@ipcaindia.org](mailto:babu@ipcaindia.org)

Website: [www.ipcaindia.org](http://www.ipcaindia.org)