



**EV REPORT OCT
2025**

GYANIKI

YOUR ACCESS TO FUTURE MOBILITY

**CYBERSECURITY
CHALLENGES IN
SECURE SOFTWARE
UPDATES**



**INDIA EV SALES
SEPT 2025**

**TOP MONEY
MOVEMENT IN
MOBILITY WORLD**



**NEWS, JOINT
VENTURES &
PARTNERSHIPS**



UPCOMING EV SHOW & EXPO

EV LAUNCH



GYANIKI REPORTS

'gyaniki' undertakes specialized and customized research in the areas of Future Mobility.

'gyaniki' provides an online repository for understanding the mobility ecosystem.

'gyaniki' database covers manufacturers, suppliers, technologies and ecosystem players in mobility including Electric, Autonomous, ADAS, Connected and Shared vehicles.

'gyaniki' also provides training programs across mobility domains.



Team gyaniki hosted an insightful Tech Talk with **Rajeev Ranadive, CMD of Pixy Cars Pvt. Ltd.**, exploring the startup mindset in EV launches, the future of retrofitment EV cars, and innovative waterway mobility solutions.

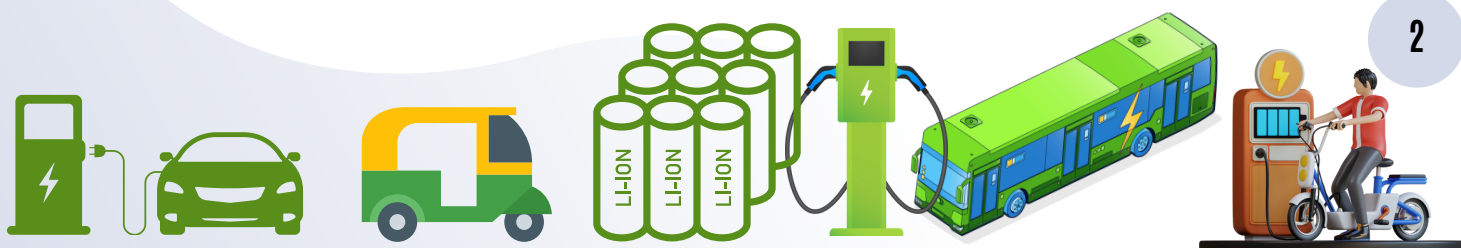
Episode 73
A startup Is Serious Business
Lessons from The Past for Future success

Rajeev Ranadive
Chairman & Managing Director,
Pixy Cars PVT. LTD.

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Topics Covered in gyaniki TECH TALKS Discussion:

- Why every new vehicle launch is like a startup for OEMs
- How OEMs plan and execute model launches
- Identifying “Gaps” in the EV market
- “Differentiation” as the key to success
- Importance of adopting the right technology
- Case studies – Indian Army & Jungle Safari EV Cars: Successes & Lessons Learned
- Upcoming Pixy Cars products for land and waterways mobility
- Emerging Battery Trends & Q&A





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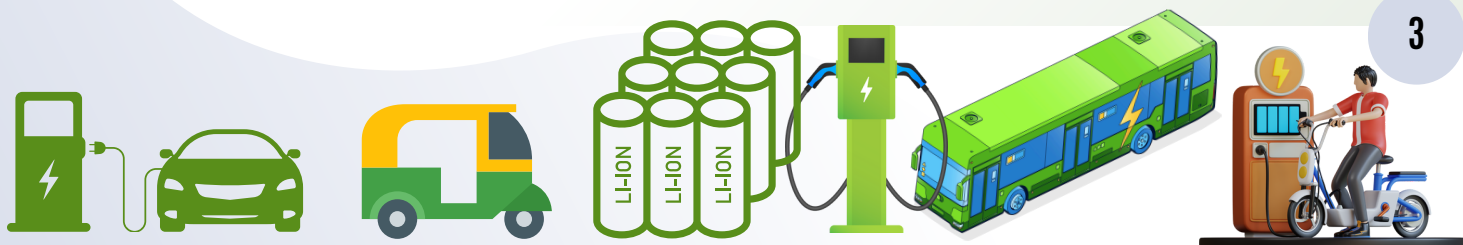


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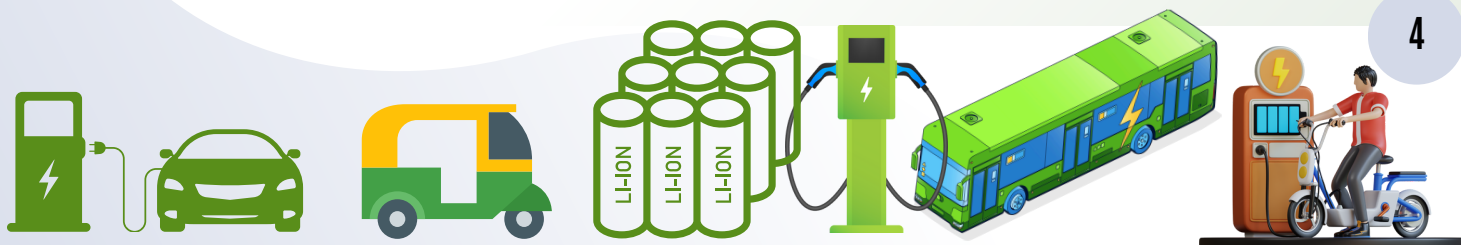
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Cybersecurity Challenges in Secure Software Updates

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Addressing Cybersecurity challenges in Secure Software Updates

Automobiles today rely heavily on software to manage functions ranging from engine control and braking to infotainment and driver-assistance features. As this dependency has grown, so has the risk of cyber intrusion. Outdated or unprotected software can expose vehicles to attacks that threaten road safety, driver privacy, and manufacturer reputation.

The Shift to OTA Updates

In the past, updating vehicle software meant visiting a service centre, where technicians would apply patches using diagnostic equipment. Over-the-air (OTA) updates have streamlined this process by enabling manufacturers to deploy patches, feature enhancements, and security fixes directly to vehicles in the field.



For manufacturers, OTA capabilities reduce the cost and complexity of recalls and allow faster response to vulnerabilities. For drivers, they provide convenience, better performance, and continuous safety improvements.



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The Cybersecurity Challenge

The same connectivity that makes OTA updates efficient also creates potential attack vectors. If exploited, weaknesses in the update process could allow adversaries to:

- Insert malicious code into update packages
- Intercept or alter communication between backend servers and vehicles
- Gain unauthorized access to electronic control units (ECUs)
- Compromise not just one vehicle, but entire fleets

The consequences could range from loss of sensitive data to disruption of critical functions, or even the disabling of safety systems.

Building Secure OTA Frameworks

1. Authentication and Authorization

Every software update must be authenticated to ensure that it originates from a trusted source (vehicle manufacturer). Digital signatures are typically used, where the update package is signed with a private key, and the vehicle verifies the signature using a corresponding public key. This prevents unauthorized or tampered software from being installed.

2. Integrity Verification

The update mechanism should verify the integrity of the update package before installation to ensure that the data has not been altered during transmission. Cryptographic hash functions are widely used to check for any corruption or tampering.

3. Confidentiality

OTA updates should be delivered over secure communication channels (TLS) to prevent eavesdropping or interception of sensitive data during transmission. This ensures that update contents and metadata remain private.

4. Rollback Mechanism

In the event of a failed or faulty update, a rollback mechanism enables the vehicle to revert to a known good state. This prevents the vehicle from being rendered inoperable due to a corrupt update or compatibility issue.

5. Fail-Safe Design

The update process should be designed so that the vehicle doesn't get completely unusable if something goes wrong, like a power cut or a network problem. It must make sure that essential functions still keep working even if the update doesn't finish.

These approaches align with emerging global regulations, including UNECE WP.29 and ISO 24089, which emphasize software management in automotive systems.

Automotive Cybersecurity Risk Management Solutions

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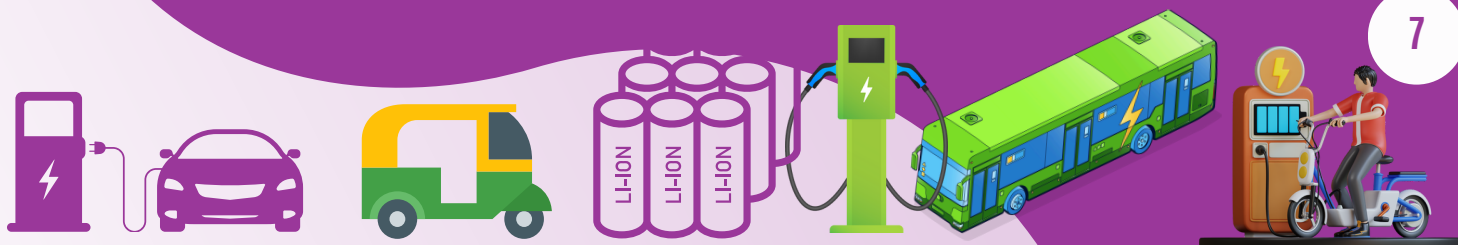
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India EV 2W Sales Sept 2025

TOP EV-2W Sales by OEM

2W EV SALES SEPT 2025 INDIA -1,04,221 UNITS

JUL AUG SEP

MARKET SHARE

24%

TVS MOTOR

22%

BAJAJ AUTO

19%

ATHER ENERGY

13%

OLA ELECTRIC

7%

HERO MOTOCORP

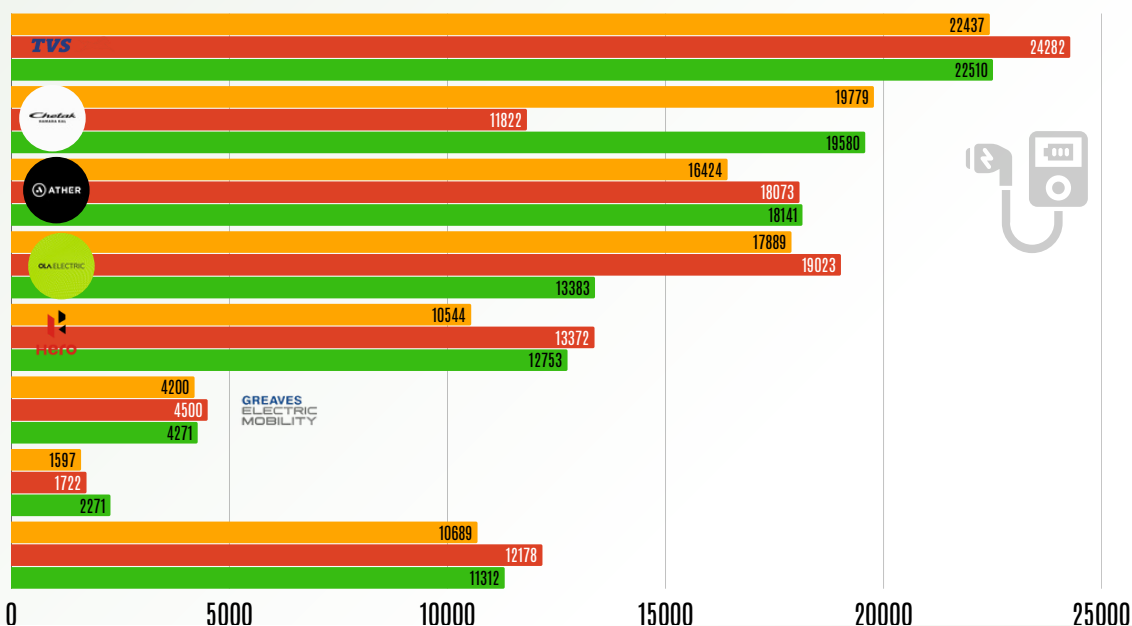
4%

GREAVES ELECTRIC

9%

BGAUSS AUTO

OTHERS



India's electric two-wheeler market witnessed 104,221 units sold in September 2025, a marginal decline of 0.7% compared to 104,972 units in August 2025. Despite the slight dip, the segment continues to show strong year-on-year resilience, reflecting the maturing consumer demand and expanding product diversity.



Ather Redux

India's Two-Wheeler Market Accelerates


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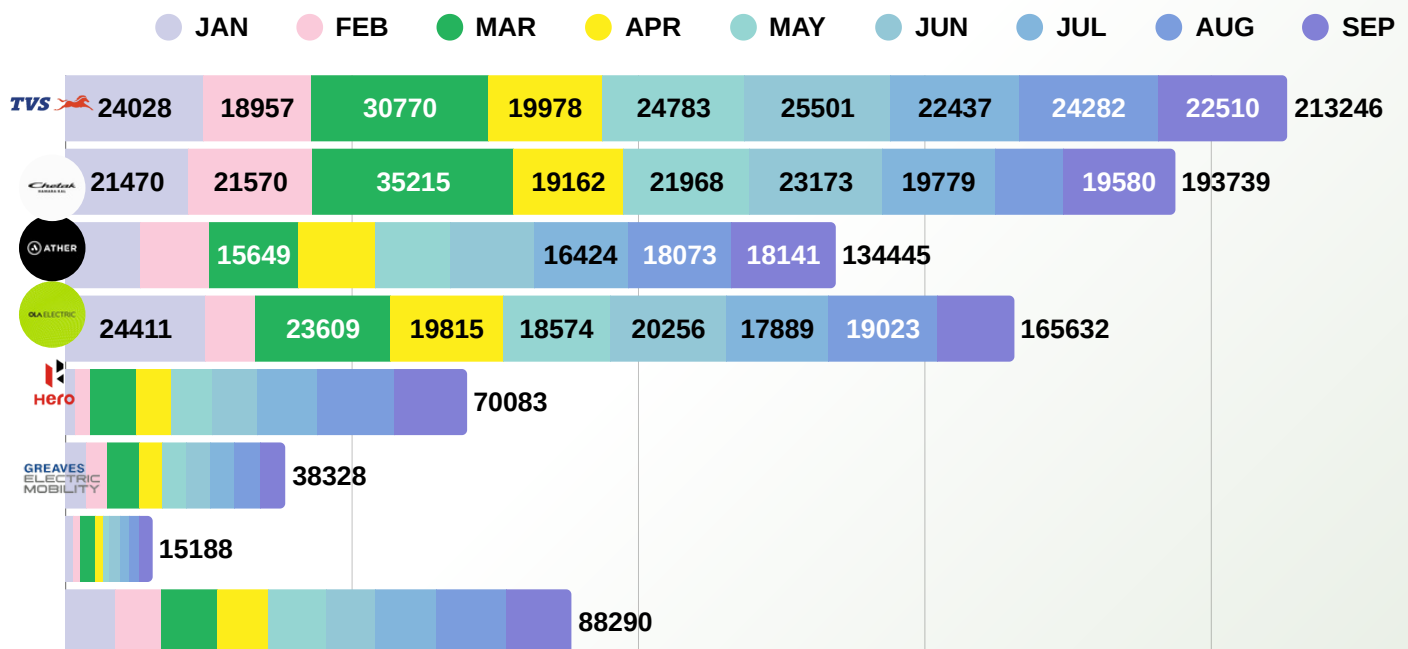
While market leaders like TVS Motor and Bajaj Auto maintained strong volumes, brands such as Ather Energy showed consistent upward momentum, narrowing the gap with the top players.

Top 5 Performers – September 2025

1. TVS Motor 22,510 -7.3%
2. Bajaj Auto 19,580 +65.6%
3. Ather Energy 18,141 +0.4%
4. Ola Electric 13,383 -29.6%
5. Hero MotoCorp 12,753 -4.6%

Market Share Snapshot – Sept 2025

- TVS Motor 21.6%
- Bajaj Auto 18.8%
- Ather Energy 17.4%
- Ola Electric 12.8%
- Hero MotoCorp 12.2%
- Others (incl. Greaves, BGauss, etc.) 17.2%



Month-on-Month Growth Trends

- Month-on-Month Growth Analysis
- Strongest Recovery: Bajaj Auto (+65.6%) rebounded sharply after August's low base.
- Consistent Growth: Ather Energy continued its steady climb with a marginal positive trend.
- Sharp Decline: Ola Electric faced a 29.6% drop, likely due to inventory and model update cycles.
- Stable Mid-Tier: Hero MotoCorp and Greaves Electric maintained their mid-range volume stability.

India's Electric Two-Wheeler Market

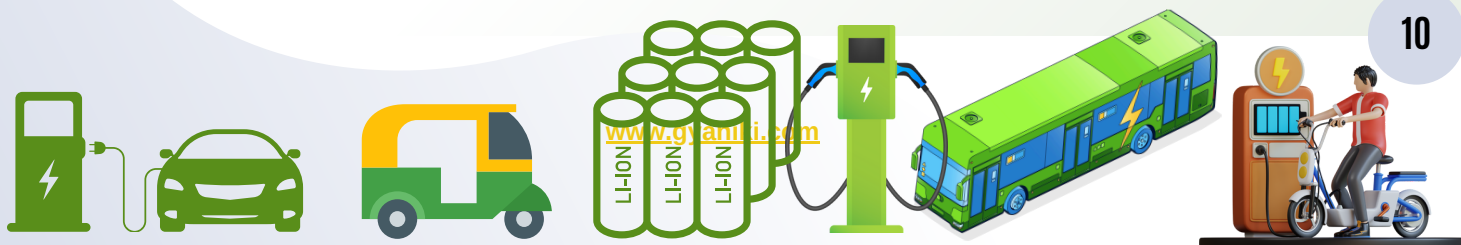


Sept 2025 Overview

- **Market Consolidation:** The top three OEMs (TVS, Bajaj, Ather) now command nearly 58% of the market, indicating stronger brand consolidation.
- **Seasonal Impact:** Slight slowdown attributed to the pre-festive pause; sales expected to rebound in October–November.
- **Emerging Brands:** BGauss and smaller players continue gradual growth with improved regional outreach.
- **Future Outlook:** With festive offers, government incentives, and improving charging infrastructure, Q4 FY25 is poised for renewed growth momentum.



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India EV 3W Sales Sept 2025

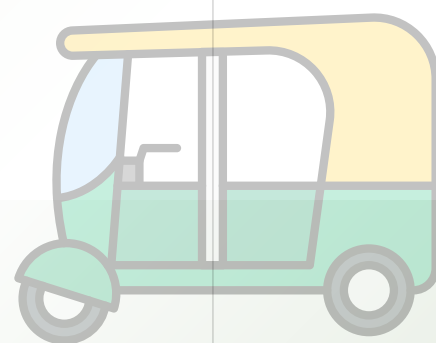
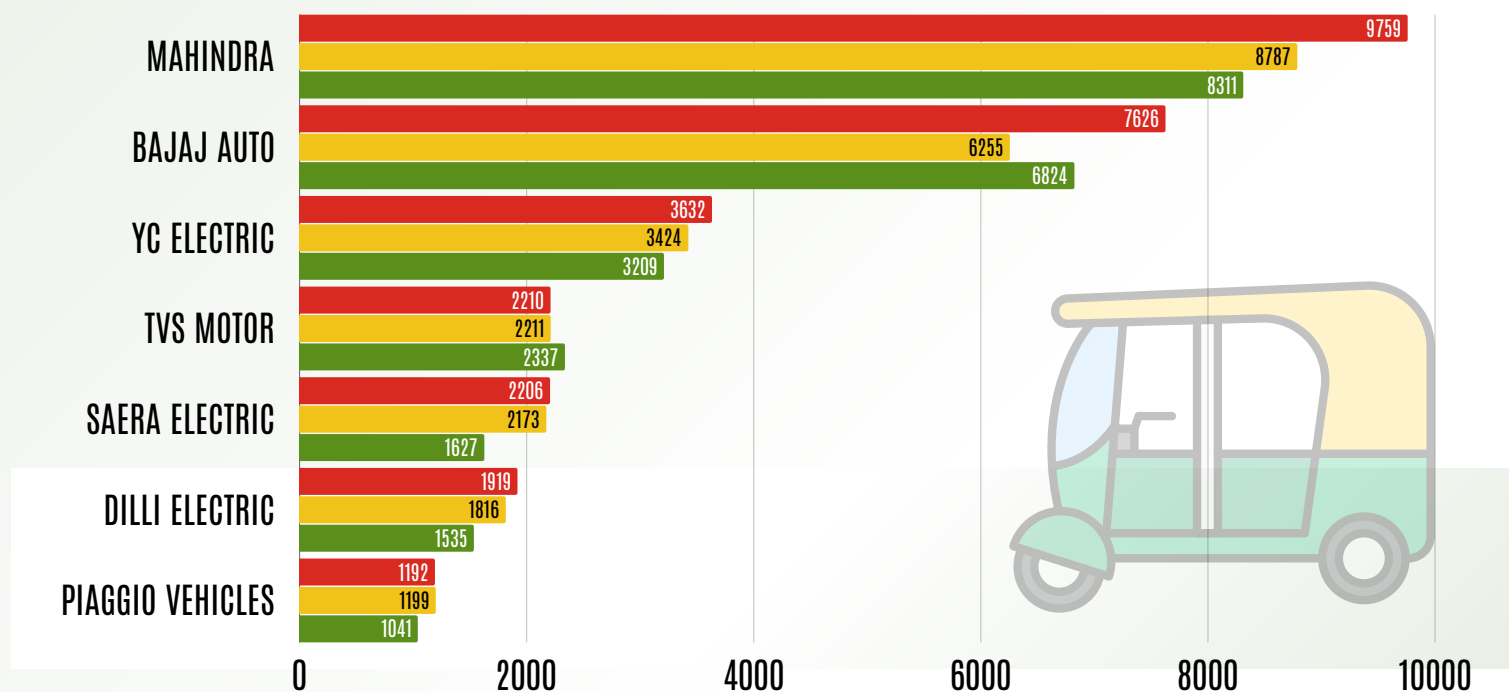


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TOP EV 3W Sales Trend by OEM

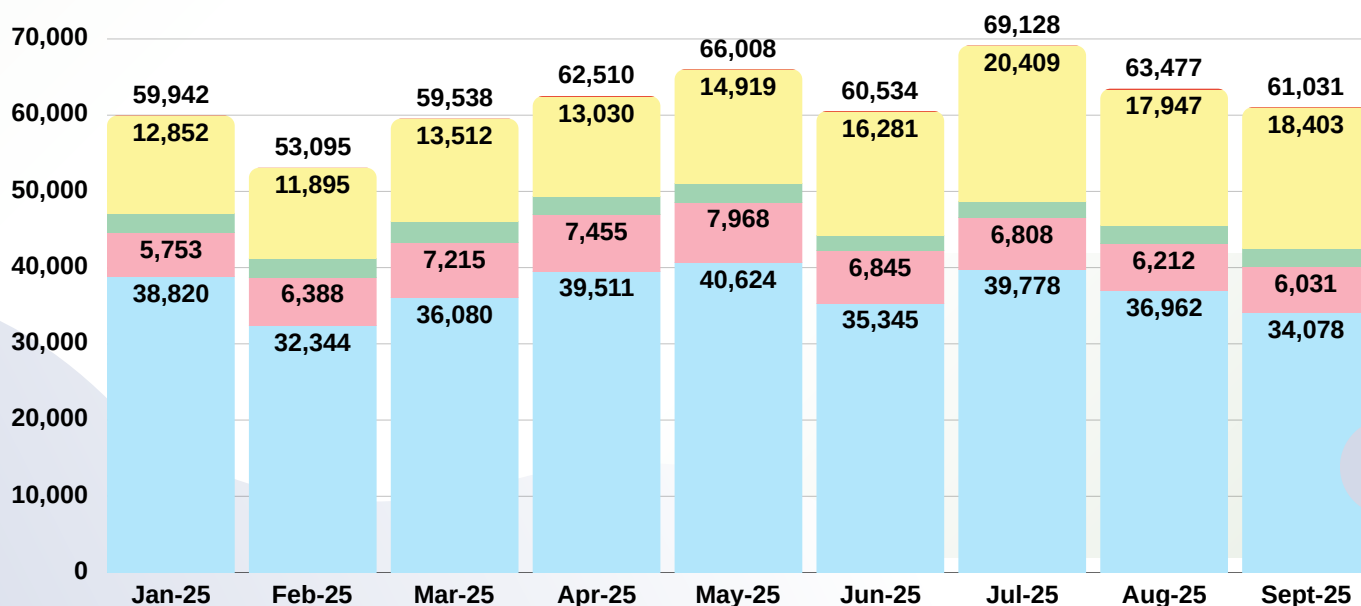
EV 3W SALES SEPT 2025 INDIA - 61,031 UNITS

● June 25 ● July 25 ● Aug 25



India's electric 3-wheeler segment maintained a steady performance in September 2025, registering **61,031 units** in total sales. This reflects a month-on-month (MoM) decline of 3.9% compared to August 2025 (63,477 units). Despite this marginal dip, the segment continues to demonstrate resilience, buoyed by strong year-to-date growth driven by commercial demand, government incentives, and wider model availability.

● E-RICKSHAW(P) ● E-RICKSHAW WITH CART (G) ● THREE WHEELER (GOODS)
● THREE WHEELER (PASSENGER) ● THREE WHEELER (PERSONAL)



India EV 3W Sales Sept 2025



Top 5 Performers – Sept 2025

1. Mahindra 8,311 ▼ 5.4% 13.6%
2. Bajaj Auto 6,824 ▲ 9.1% 11.2%
3. YC Electric 3,209 ▼ 6.3% 5.3%
4. TVS Motor 2,337 ▲ 5.7% 3.8%
5. Saera Electric 1,627 ▼ 25.1% 2.7%

Mahindra continues to lead the 3W EV market with consistent sales above 8,000 units for the third consecutive month. Bajaj Auto recorded a strong rebound with a 9% month-on-month rise, driven by higher demand in urban logistics and shared mobility. TVS Motor maintained its momentum, showcasing sustained growth across the year, while Saera Electric and Dilli Electric saw volume contractions in September.

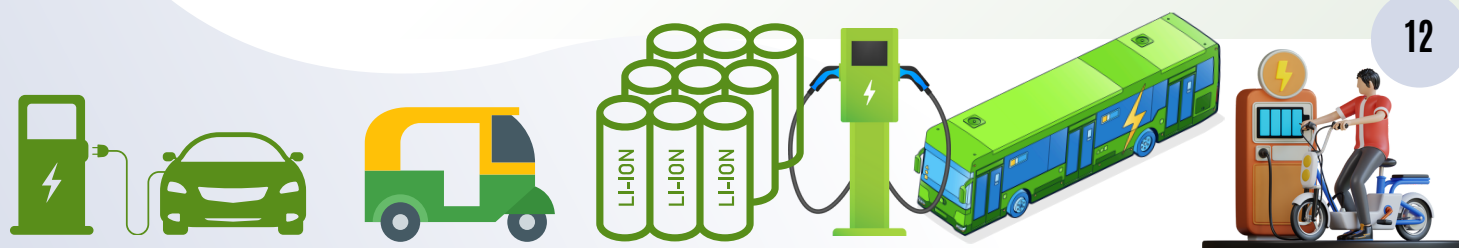
Market Share – Sept 2025

1. Mahindra remains the clear segment leader with a 13.6% market share, followed by Bajaj Auto (11.2%).
2. The combined market share of the top 5 OEMs stood at 36.6%, indicating moderate consolidation.
3. The overall segment has grown ~2% YoY, highlighting the maturing adoption curve and supply normalization.
4. Growth remains concentrated in urban and semi-urban centers, with increasing fleet electrification by last-mile delivery operators.

Month-on-Month Trends (Aug vs. Sept 2025)

1. Total EV 3W sales fell by 3.9%, largely due to festive inventory adjustments and regional monsoon disruptions.
2. Mahindra and Bajaj Auto together contributed ~25% of total monthly sales, underscoring their competitive hold.
3. TVS Motor's consistent rise signals growing acceptance of newer entrants offering efficient lithium-ion-based models.
4. Smaller OEMs experienced a slowdown, possibly due to financing challenges and dealer destocking.

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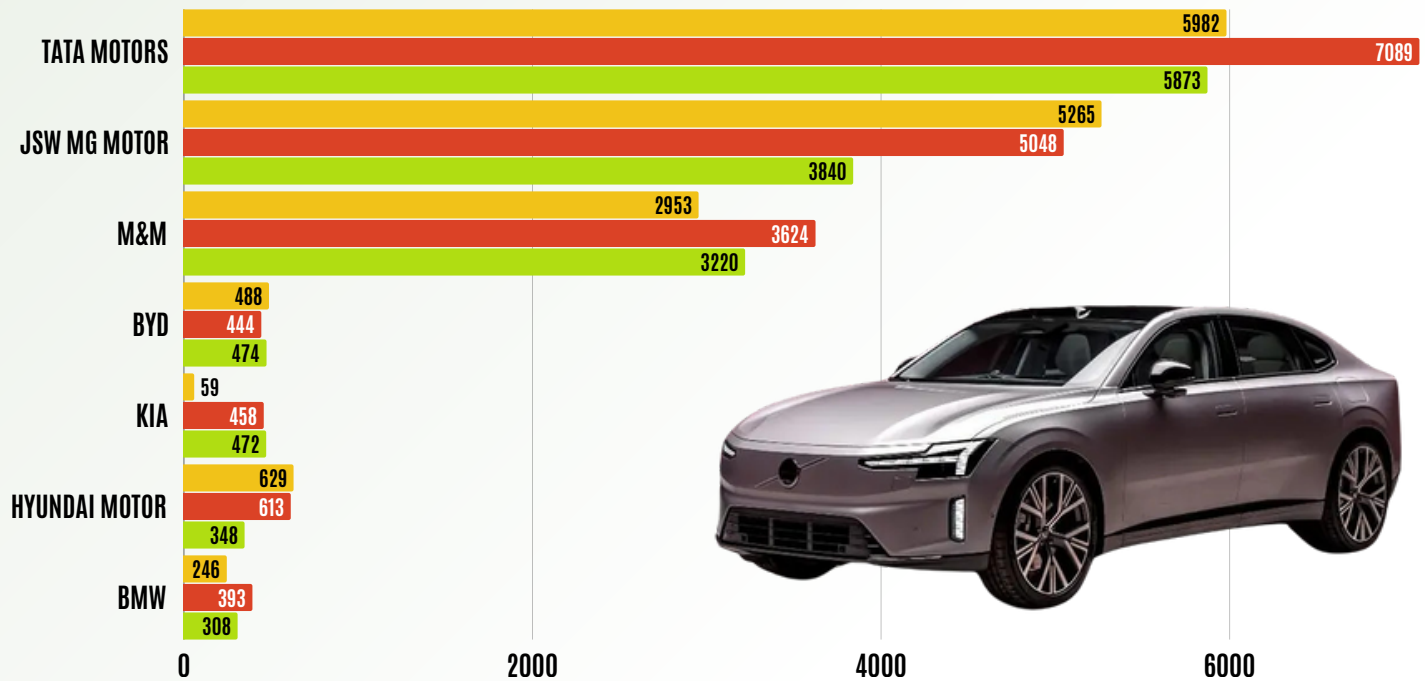


India EV Sales Sept 2025

EV 4W Passenger Sales Trend by OEM

SALES SEPT 2025 INDIA - 14,735 UNITS

● JULY 25 ● Aug 25 ● Sept 25



India's electric vehicle (EV) market for **light motor vehicles** recorded a steady performance in September 2025, continuing its upward trajectory in overall adoption despite mild month-on-month fluctuations. Total EV registrations among key manufacturers reached **14,727 units**, showing resilience amid evolving consumer sentiment and competitive pricing trends.

While **Tata Motors** retained its stronghold on the market, **Mahindra & Mahindra**, **JSW MG Motor India**, and **Kia India** showed contrasting month-to-month variations that highlight the market's competitive intensity.



EV Sales Surge in Sept 2025 - TATA Leads



Market Share – September 2025

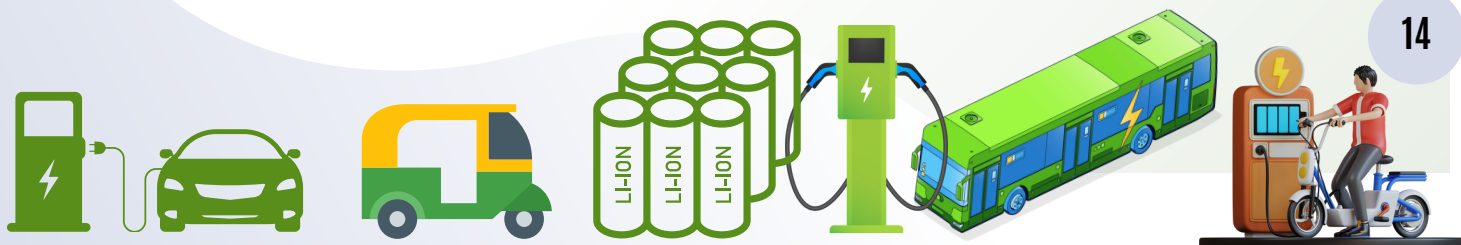
- **Tata Motors Ltd. – 39.9%** (5,873 Units)
- **JSW MG Motor India Pvt. Ltd. – 26.1%** (3,840 Units)
- **Mahindra & Mahindra Ltd. – 21.9%** (3,220 Units)
- **BYD India Pvt. Ltd. – 3.2%** (472 Units)
- **Kia India Pvt. Ltd. – 3.2%** (472 Units)
- **Others (Hyundai, BMW, Mercedes, Tesla, etc.) – 5.7%**

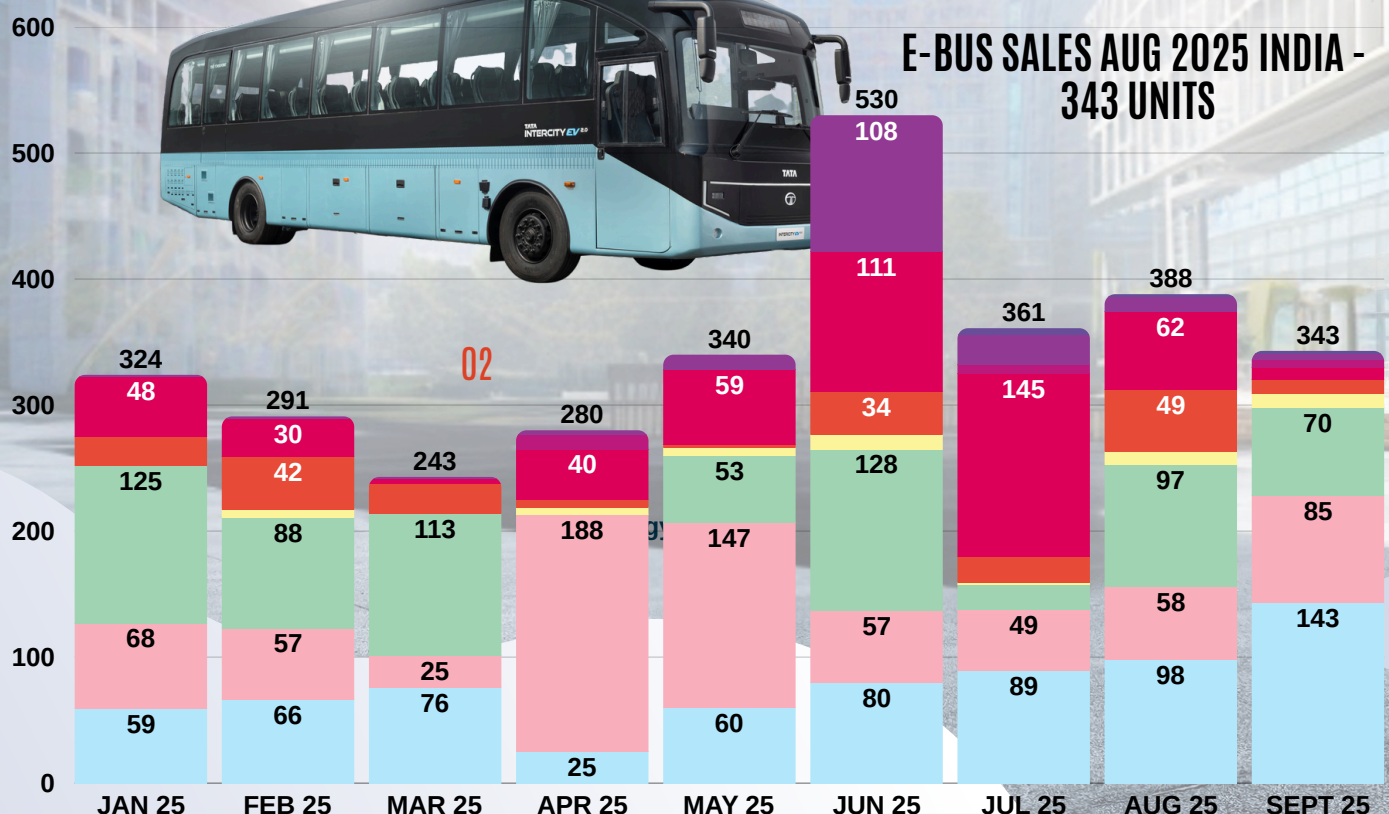
Tata Motors continues to dominate the light EV segment with nearly 40% market share, although both MG Motor and Mahindra maintained their solid positions. The segment is witnessing early signals of diversification as premium brands like Tesla and VinFast recorded their first official entries in India this month.

Month-on-Month Growth Insights

The overall light motor EV segment contracted by approximately 15% compared to August 2025, primarily due to post-festive inventory adjustments and anticipation of updated models in Q4. Despite this, year-to-date sales (January–September) reflect a cumulative growth of nearly 28% versus the same period in 2024, underscoring a healthy long-term trajectory.

1. Tata Motors maintains leadership with consistent volume and strong brand trust in the mass EV segment.
2. MG Motor experiences a temporary slowdown but remains a strong urban EV brand with upcoming model refreshes.
3. Mahindra's XUV400 continues to attract first-time EV buyers in Tier 2 cities.
4. Kia and BYD mark notable momentum in premium and mid-premium categories.
5. New Entrants (Tesla, VinFast) indicate India's EV market maturity and expanding global interest.
6. Despite a short-term MoM dip, Q4 2025 is expected to rebound as OEMs launch festive campaigns and new models. www.gyaniki.com

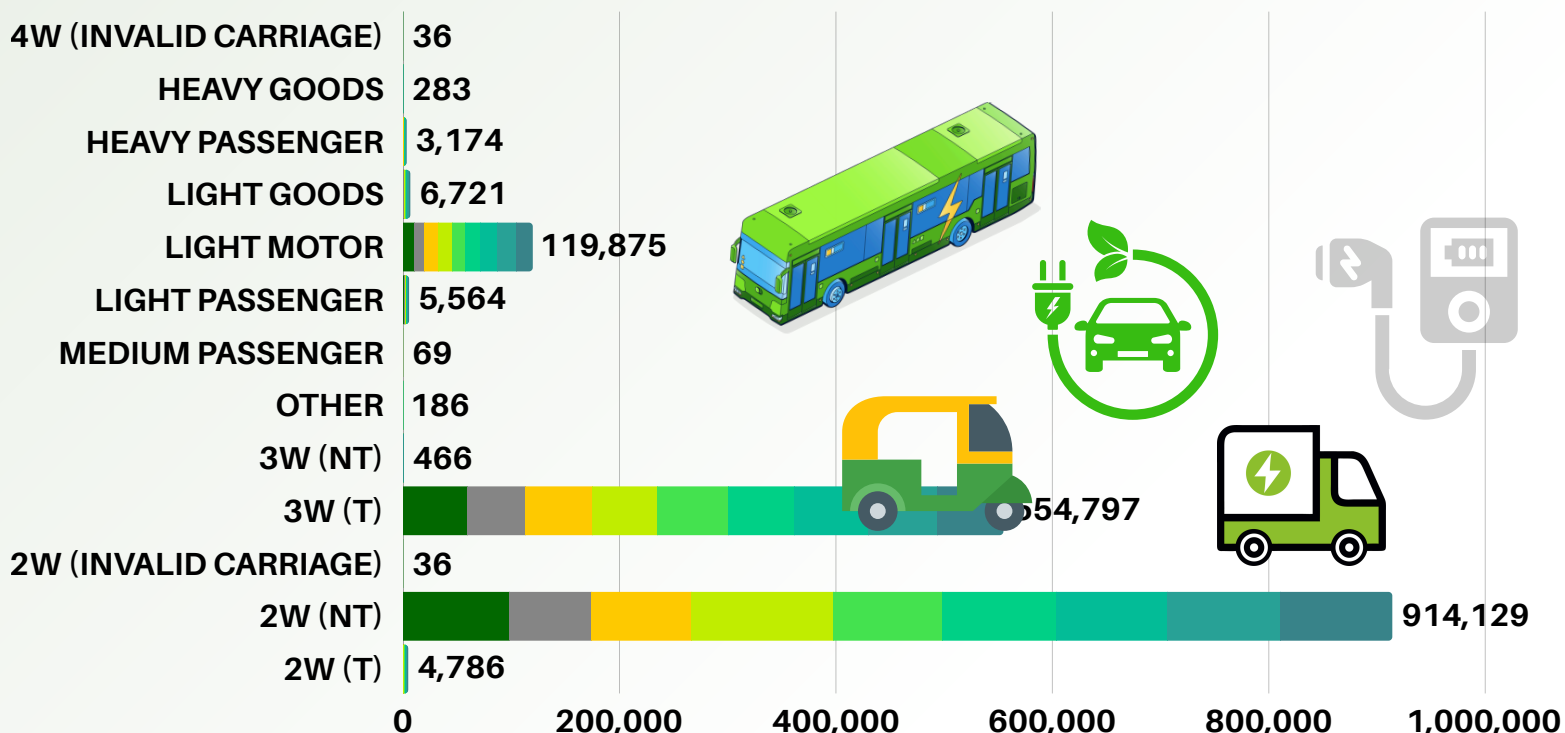






India EV Sales Jan - Sept 2025 -Category-Wise

EV SALES SEPT 2025 INDIA - 1,82,200 UNITS



Mixed trends across segments as Light Goods Vehicles and Two-Wheelers lead the charge, while Passenger and Heavy categories witness a modest correction.

EV Sales Overview – September 2025

India's Electric Vehicle (EV) market maintained steady momentum in September 2025, closing the month with a total of ~1.83 lakh units sold across all categories. While this marks a slight decline from August's record-breaking numbers, the market continues to show resilient year-on-year growth, driven primarily by the Light Goods Vehicle (LGV) and Two-Wheeler segments.

Overall EV Sales Performance

The Indian EV sector is experiencing a gradual normalization after months of aggressive growth.

- **Light Motor Vehicles (LMV)** remained the largest contributor with 14,735 units, a 17% decline from August but still up 36% year-on-year.
- **Light Goods Vehicles (LGV)** demonstrated consistent momentum, touching 1,221 units, marking an 11.9% month-on-month (MoM) growth – its highest sales in 2025 so far.
- **The Three-Wheeler (T)** segment continued to be the backbone of India's EV mobility, clocking 60,947 units. Despite a slight dip from August (63,417 units), it remains one of the most stable categories.
- **Two-Wheelers (NT)**, a key volume driver, posted 1,03,260 units, almost identical to August, signaling market stability after recent volatility.
- **Heavy Vehicle categories** saw corrections, with HCV and HPVs witnessing MoM declines of 26% and 12.7% respectively.



India EV Sales Sept 2025 -Category-Wise

Top 5 Performing EV Segments (September 2025)

Two-Wheeler (NT) 1,03,260 -0.8% Consistent mass adoption continues
 Three-Wheeler (T) 60,947 -3.9% Still dominant in last-mile mobility
 Light Motor Vehicle 14,735 -17.2% Slight dip after record August
 Light Goods Vehicle 1,221 +11.9% Strong logistics & delivery demand
 Heavy Passenger Vehicle 348 -12.7% Slowed due to fleet procurement gaps

- ✓ **Stability Returns:** September marks a stabilization phase post-August highs, indicating a more sustainable sales trajectory.
- ✓ **Last-Mile Electrification Strong:** 3W (T) and 2W (NT) categories continue to dominate India's EV adoption curve.
- ✓ **Commercial Segment Uprising:** The LGV segment remains a bright spot with double-digit growth – signaling strong demand from e-commerce and logistics players.
- ✓ **Heavy Segment Cools:** After robust fleet orders earlier this year, heavy vehicles show cyclical correction.
- ✓ **Q4 Outlook:** With the festive quarter ahead and continued incentives under FAME II and state EV policies, a rebound is anticipated in October and November.

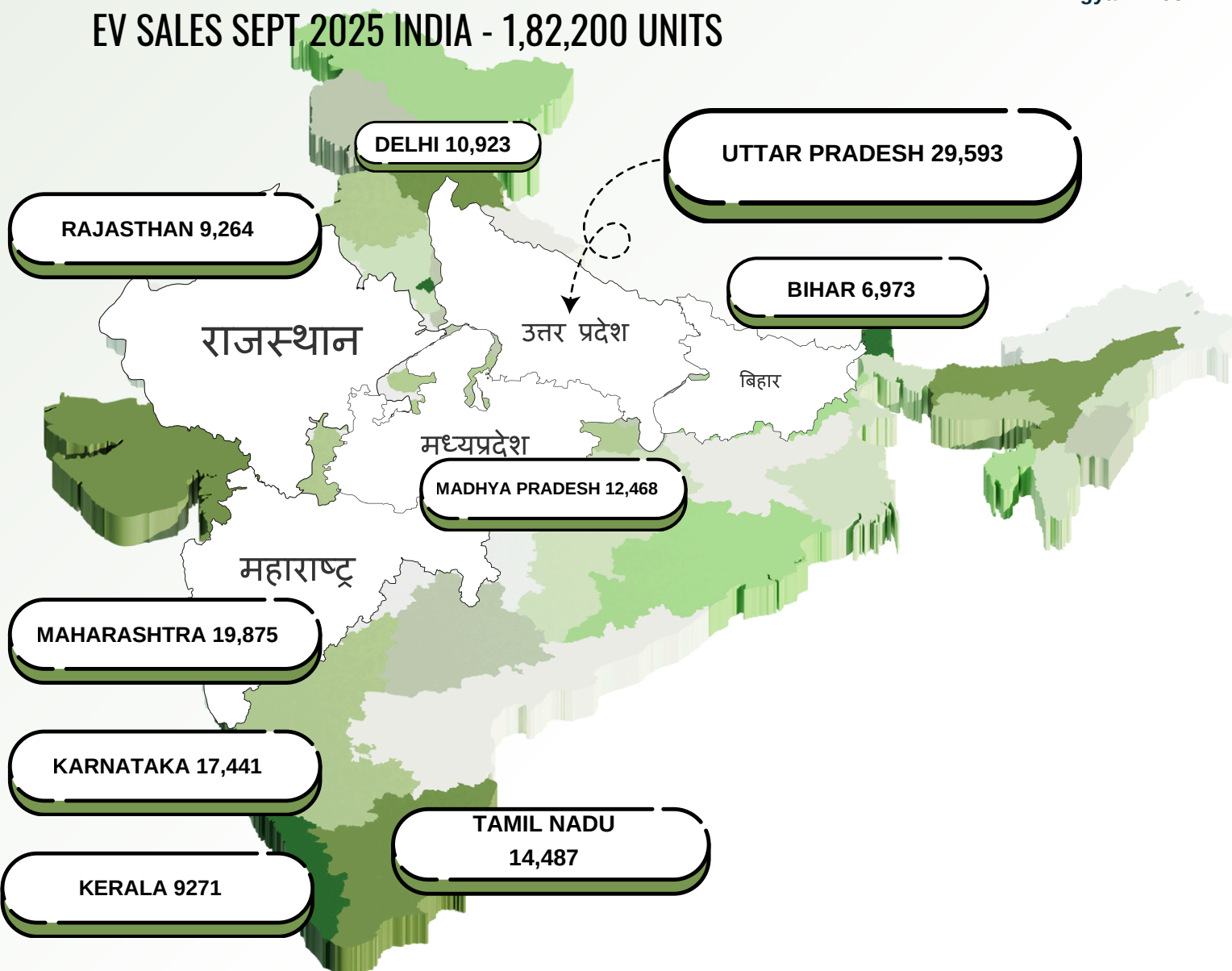
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State Wise EV Sales in Sept- 2025

EV SALES SEPT 2025 INDIA - 1,82,200 UNITS



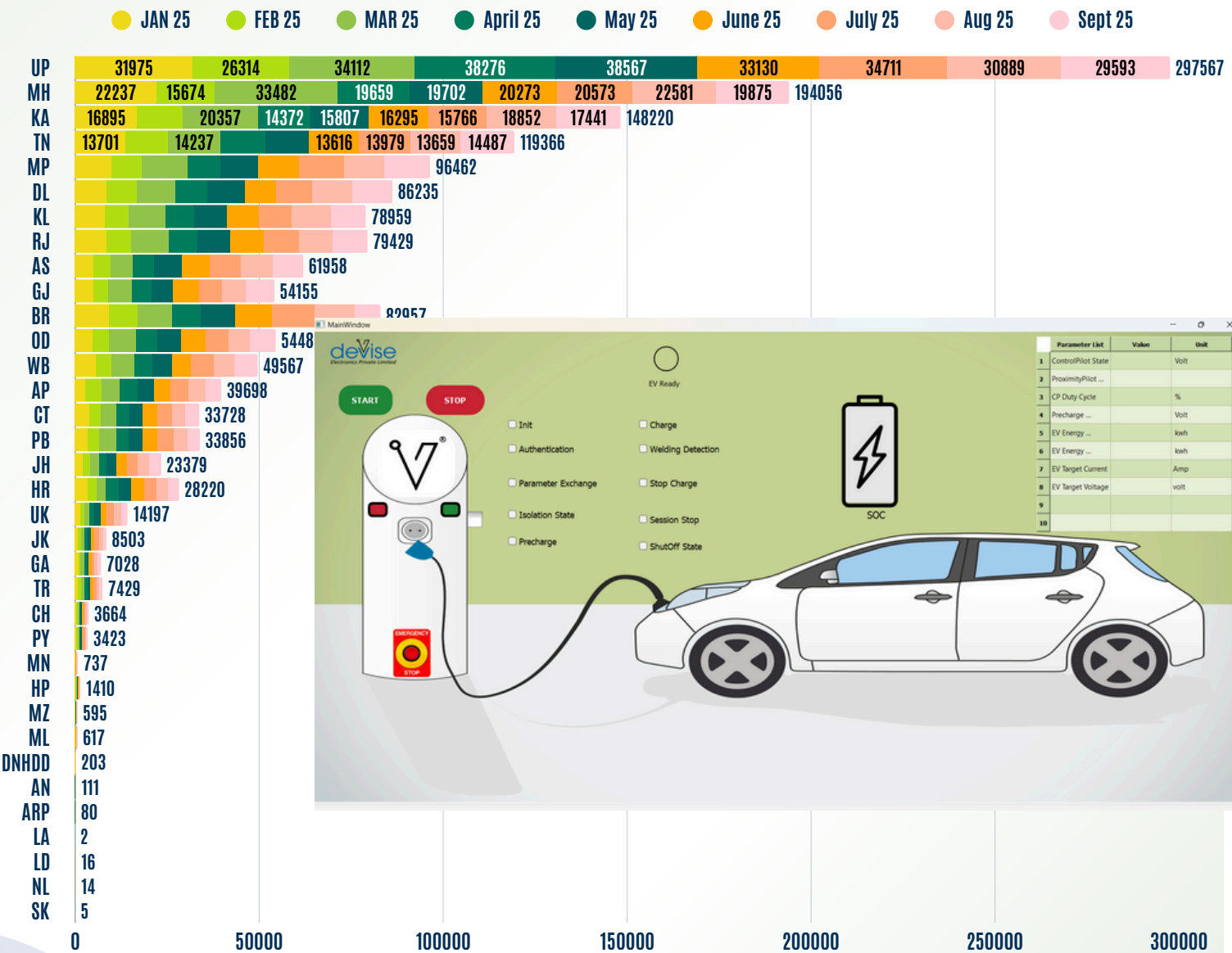
From January to September 2025, India's Electric Vehicle (EV) market has maintained its upward trajectory, reflecting strong consumer adoption and improved supply chain consistency. Across major states, consistent monthly sales volumes underline growing confidence in electric mobility.



State Wise EV Sales JAN - SEPT 2025

From January to September 2025, India’s Electric Vehicle (EV) market has maintained its upward trajectory, reflecting strong consumer adoption and improved supply chain consistency. Across major states, consistent monthly sales volumes underline growing confidence in electric mobility.

Uttar Pradesh, Maharashtra, Karnataka, Tamil Nadu, and Madhya Pradesh remain the top-performing states — together accounting for nearly 55% of the country’s total EV sales during this period.



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Overall EV Sales Performance – September 2025

In September 2025, total EV sales across India are estimated at approximately **1.79 lakh** units, showing a slight month-on-month **decline of about 4.2% compared to August 2025**. While some regions saw minor corrections due to festive season anticipation and inventory adjustments, others continued to record impressive consistency.

Top-performing states in September highlight strong retail networks and localized support for EV incentives, particularly in Tier-2 and Tier-3 cities.

Top 5 Performers in September 2025

Uttar Pradesh 29,593 ▼ -4.2%
Maharashtra 19,875 ▼ -12.0%
Karnataka 17,441 ▼ -7.5%
Tamil Nadu 14,487 ▲ +6.0%
Madhya Pradesh 12,468 ▲ +15.9%

Market Share Snapshot (Sept 2025)

1. **Uttar Pradesh – 16.5%**
2. **Maharashtra – 11.1%**
3. **Karnataka – 9.7%**
4. **Tamil Nadu – 8.1%**
5. **Madhya Pradesh – 7.0%**
6. **Others (20+ states & UTs) – 47.6%**

The collective contribution of the top 5 states stands at over 52% of the national EV market share, highlighting concentrated adoption trends in key urban-industrial clusters.

- Uttar Pradesh continues its dominance with consistent leadership in EV registrations.
- Madhya Pradesh recorded the highest month-on-month growth (+15.9%) in September, signaling strong market potential in central India.
- Tamil Nadu's steady rise reflects enhanced EV manufacturing capacity and consumer confidence.
- Western states like Maharashtra and Gujarat may see sales recovery in Q4 with upcoming festive promotions and OEM product launches.
- Overall national EV adoption remains robust, indicating that India is steadily transitioning toward cleaner mobility with diversified regional growth patterns.

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IPTIF, in collaboration with Devise for EV Talent Development

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IPTIF, Devise Electronics, and LFEI Unite to Empower Students & Professionals in Electric Vehicle Service and Maintenance

In a significant step towards building skilled talent for India's booming electric vehicle sector, IPTIF, in collaboration with Devise Electronics Pvt. Ltd., Pune, and Little Flower Engineering Institute (LFEI), Kochi, has announced the launch of the Certificate Training Programme in Electric Vehicle (EV) Service & Maintenance.

With a 360-hour, hands-on, offline training programme, this initiative is designed to equip students, professionals, and career enthusiasts with practical expertise and industry-ready skills in the fast-evolving world of EV technology.



Key Highlights of the Programme

- **Comprehensive EV Training:** Focus areas include EV architecture, diagnostics, troubleshooting, battery management systems, and overall service workflows.
- **Dual Certification:** Participants receive nationally recognized, industry-validated certification, boosting credibility and employability.
- **Placement Assistance & Industry Connect:** Direct engagement with EV manufacturers, service centers, and mobility innovators, ensuring career pathways in a competitive market.
- **State-of-the-Art Facilities:** Training delivered at well-equipped centers in Kochi and Coimbatore ensures experiential, practical learning on real EV systems.

SITARC EV Foundation and Devise Electronics Forge Strategic Partnership

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Why This Collaboration Matters

The electric vehicle market in India is projected to grow exponentially over the next decade, with industry estimates predicting that EVs could account for 30%–40% of all vehicle sales by 2030. A transformation of this scale demands not only robust manufacturing infrastructure but also a trained workforce capable of maintaining, servicing, and innovating within EV ecosystems.

By joining forces, IPTIF, Devise Electronics, and LFEI are creating a holistic bridge between academic learning and industry application. This programme not only prepares participants for immediate job opportunities but also positions them for long-term growth in a sector that rewards technical mastery and adaptive thinking.



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Opportunities for Students and Professors

This initiative opens doors for students, professors, and academic institutions in several ways:

- **Curriculum Integration:** Professors can align academic coursework with industry-led EV service training to give students practical exposure.
- **Skill Enhancement:** Students can acquire specialized EV skills that are in high demand, making them competitive for placements both in India and abroad.
- **Research Collaboration:** Faculty members can partner with industry experts to engage in applied research in battery systems, diagnostics, and green mobility innovations.
- **Career Tie-Ups:** Institutions can establish lasting relationships with the EV industry, ensuring a consistent talent pipeline.

If you are a student or educator looking to be part of the green mobility revolution, this is your moment. Participating in programmes like these can supercharge your career trajectory, enhance your employability, and place you at the heart of the EV transformation story.

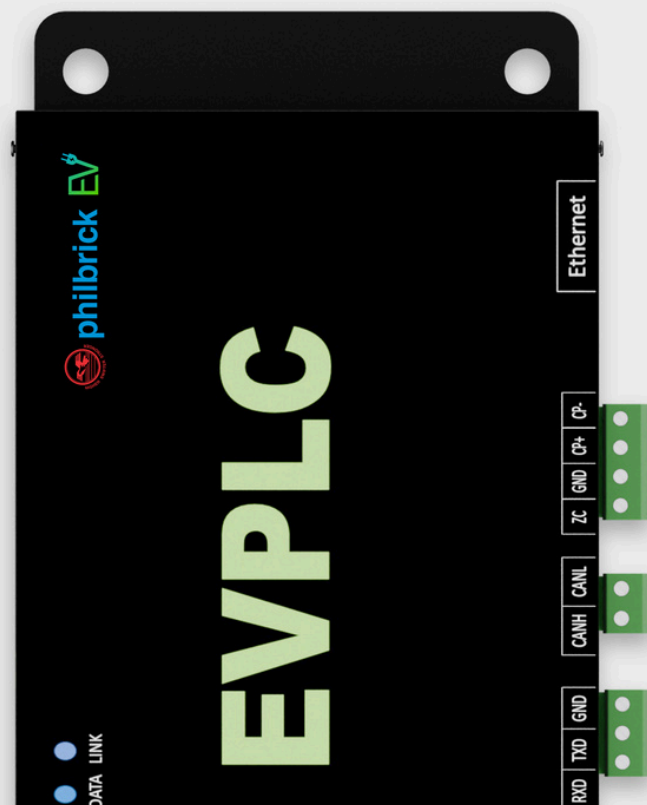
The collaboration between IPTIF, Devise Electronics, and LFEI sets a powerful precedent — blending cutting-edge technology, practical training, and career enablement. As an editor in the future mobility space, I see this as an exemplary model for how industry and academia should work together to make India ready for the sustainable transport era.



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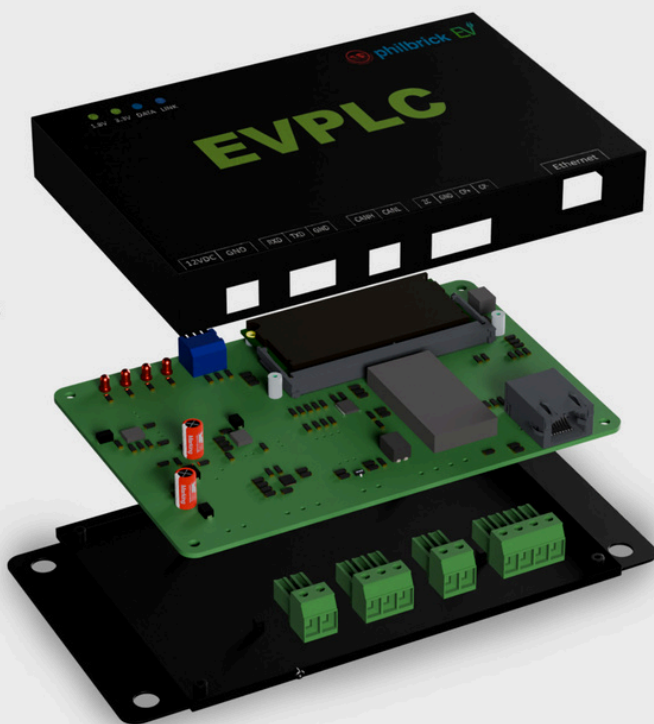


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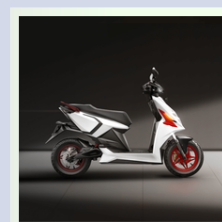
Exide Industries Limited (EIL) has announced an additional ₹80 crore investment in its wholly-owned subsidiary Exide Energy Solutions Limited (EESL), taking the total commitment to ₹3,882.23 crore.

The investment, made via a rights issue, reinforces EIL's focus on advanced lithium-ion cell, module, and pack manufacturing for EVs and stationary storage applications.



Simple Energy

Bengaluru-based Simple Energy has secured \$10 million in bridge funding (Sept 25, 2025) led by Thyrocare Founder Dr. Arokiaswamy Velumani's Family Office, alongside existing investors.



Xbattery Energy

Xbattery Energy Private Limited, a Hyderabad-based startup building advanced Battery Management Systems (hashtag#BMS), has successfully raised USD 2.3 Million in a seed round, led by Bipin Patel Family Office with participation from Jhaveri Credits.



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₹ 99,900*

*EFFECTIVE EX-SHOWROOM
PRICE IN BANGALORE
POST PM E-DRIVE INCENTIVE



Top Money Movement



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EVamp Technologies

EVamp Technologies, the company behind the Mobilane EV charging network, has successfully raised ₹7 crore in its first funding round.

With this capital, the company aims to:

- ✓ Scale up its pan-India EV charging infrastructure
- ✓ Invest in in-house manufacturing of AC chargers
- ✓ Develop DC chargers for Light Electric Vehicles (LEVs)



NVIDIA

Autonomous vehicle startup Wayve has taken a bold step forward in its long-standing alliance with NVIDIA, announcing a letter of intent to evaluate a \$500 million strategic investment in its upcoming funding round.



WAYVE



NVIDIA®

Omega Seiki Mobility

Omega Seiki Mobility (OSM) has announced a \$25 million (AED 92 million) investment to set up an advanced EV assembly facility at Jafza, one of the world's leading free trade zones.

- ◆ Timeline: Operations to begin by end of 2025
- ◆ Scale: 42,000+ sq. ft. facility
- ◆ Focus: Assembly of OSM's electric 2-wheelers and electric 3-wheelers
- ◆ Additional Capability: Storage & distribution hub for auto components and spare parts



Top Money Movement



BillionE Mobility

BillionE Mobility has locked in 250+ long-term contracts to deploy medium- and heavy-duty electric trucks (12T to 55T GVW) across industries like:

📦 E-commerce | 💊 Pharma | 🧱 Cement | 🏭 Steel | 🛒 FMCG | 🚗 Automotive | 🌐 Global Logistics

- ✅ Currently operating 60+ heavy-duty e-trucks
- ✅ Backed by **\$10 million** in seed + debt funding, and now raising \$15M Pre-Series A
- ✅ Integrated ecosystem powered by ChargeZone
- ✅ Tapping into the ₹500 Cr PM E-DRIVE subsidy program — up to ₹9.6L per e-truck 💰



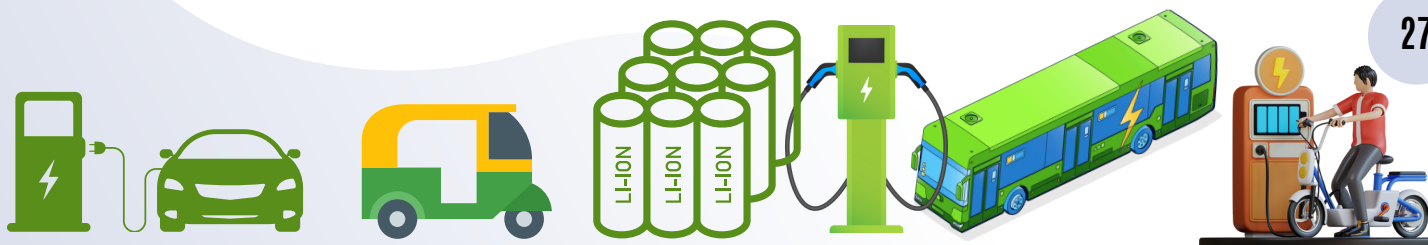
Volt14 Solutions

Volt14 Solutions has successfully raised **\$1.87M in a Pre-Series A round** led by Blume Ventures, with strong backing from Beyond NEXT VENTURES., Spectrum Impact, Supermorpheus, and Cocoon Capital – taking their total funding to **\$4.02M!**



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FUTURE MOBILITY PARTNERS

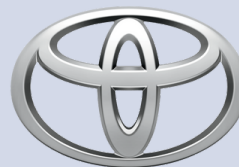


Toyota

Powering the Future with Fuel Cell Buses

Public mobility is taking a bold leap forward. Starting 2026, Isuzu and Toyota will begin producing next-generation fuel cell route buses—combining an electric platform with cutting-edge hydrogen fuel cell systems.

- Expands carbon-neutral transit options
- Utilizes shared parts to lower costs
- Accelerates hydrogen adoption in urban fleets
- Drives the vision of sustainable city mobility



TOYOTA



Azad India Mobility

Azad India Mobility Limited Ltd (formerly INDIAN BRIGHT STEEL CO LTD) is stepping into the electric bus market with a major manufacturing push.

- ◆ The company has signed a five-year lease agreement (from October 1, 2025) for an 8,094 sq. meter government-approved facility in Bengaluru, leased from AZAD COACH BUILDERS PRIVATE LIMITED

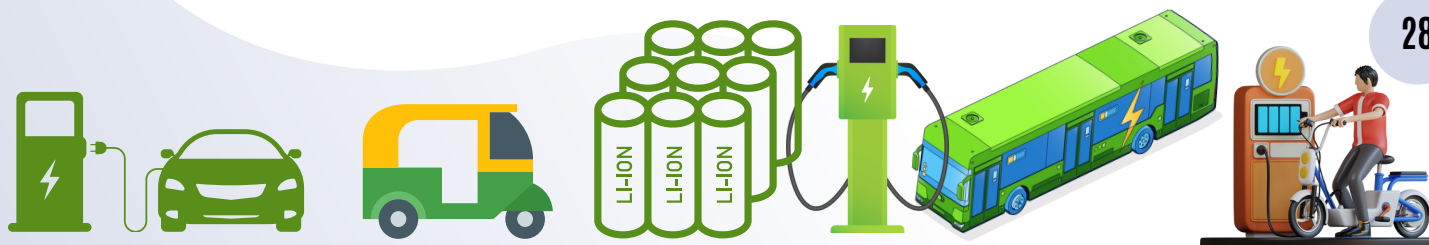
Ather Energy

Ather Energy Limited has deferred submission of demand incentive claims worth ₹26.25 crore, impacting nearly 52,500 vehicles under the PM E-DRIVE scheme.

The move comes after China's export ban on heavy rare earth magnets disrupted global supply chains, forcing temporary adjustments in traction motor production. These changes, though beyond Ather's control, resulted in deviations from Phased Manufacturing Program (PMP) guidelines.



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Tata Motors

Tata Motors sets up 25,000 EV charging points across India

These facilities are distributed across more than 150 cities, including Delhi-NCR, Bengaluru, Mumbai, Chennai, and Hyderabad.

- Tata Motors has announced a major milestone — the establishment of 25,000+ public charging points dedicated to electric small commercial vehicles (SCVs) across 150+ cities in India. These include major hubs like Delhi-NCR, Bengaluru, Mumbai, Chennai, and Hyderabad.

Nexon.ev — now with ADAS*

Smarter instinct. Sharper moves. Powered by 45 kWh battery delivering 489* km range.



Lifetime* HV battery pack warranty

Also available in #DARK & Red #DARK



Nexon.ev — #DARK

Sharper, edgier, smarter with ADAS*.
 Powered by 45 kWh battery delivering 489* km range.



Lifetime* HV battery pack warranty

Also available in Red #DARK



Simple Energy

Simple Energy has set a new benchmark by becoming India's first OEM to commercially produce heavy rare earth-free electric motors.

Ministry of Road Transport & Highways - India

The Ministry of Road Transport & Highways - India (MoRTH) has issued a draft notification proposing amendments to the Central Motor Vehicles Rules, 1989 — introducing AVAS requirements for electric and electrified vehicles to align with global road safety standards.

📌 Key Highlights:

- AVAS Mandatory → All electrified vehicles (M & N categories) must be equipped with AVAS.
- Timeline → New models from 1st Oct 2026, existing models from 1st Oct 2027.
- Compliance → Must meet AIS-173 audibility standards (latest amendments apply).
- Expanded Scope → Categories M1, L5, L7, e-rickshaw & e-cart also covered under Rule 138 provisions.
- Public Consultation → Stakeholders invited to share feedback within 30 days.

This move addresses one of the biggest EV safety challenges — pedestrian awareness of near-silent vehicles — ensuring India stays in step with international best practices in Future Mobility.

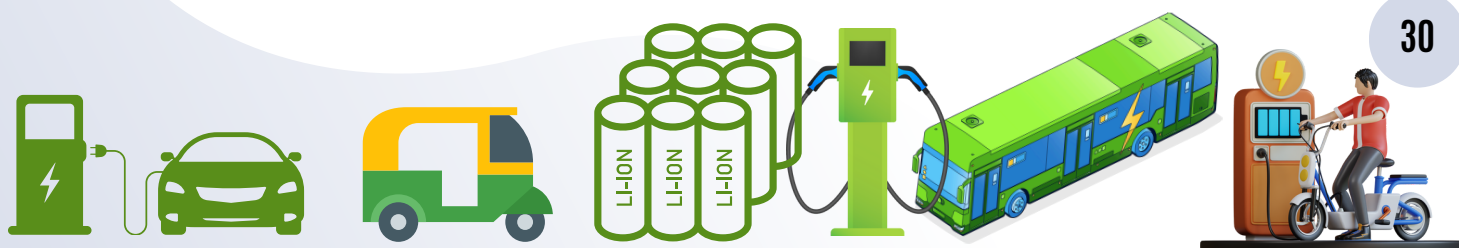
PM E-Drive Scheme

India currently has only ~30,000 public charging stations, far short of the demand for mass EV adoption. To bridge this gap, the Ministry Of Heavy Industries has released detailed operational guidelines under the ₹10,000 crore PM E-Drive scheme.

Key Highlights:

- ₹2,000 crore earmarked to support 72,300 new charging & battery swapping stations.
- Subsidy eligibility: Govt. bodies, CPSEs, autonomous institutions; private entities can partner as Charge Point Operators (CPOs).
- Support coverage: Transformers, cables, civil works, and in some cases EVSE costs.
- Deployment focus: High-density urban centres, smart cities, state capitals, highways & public sector sites (airports, metro stations, petrol pumps).
- Standards compliance: CCS-II chargers up to 500 kW; integration with the National Unified EV Charging Hub for real-time data & seamless payments.
- Subsidy split:
 - Govt. buildings: 100% (if free for public)
 - Public sector sites: 80% infra + 70% EVSE
 - Other urban sites & battery swapping: 80% support

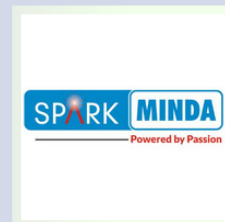
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Minda Corporation

Minda Corporation is gearing up for a bold leap into the future with its Vision 2030 roadmap. At its recent investor meet in Pune, the company unveiled an ambitious strategy to triple revenues by FY30, with a strong emphasis on EV components, premium auto electronics, and exports.



Relux Electric Pvt. Ltd.

Tamil Nadu Green Energy Corporation Limited (TNGECL) announced a strategic partnership with Relux Electric Pvt. Ltd. to establish 500 new EV charging stations across the state.

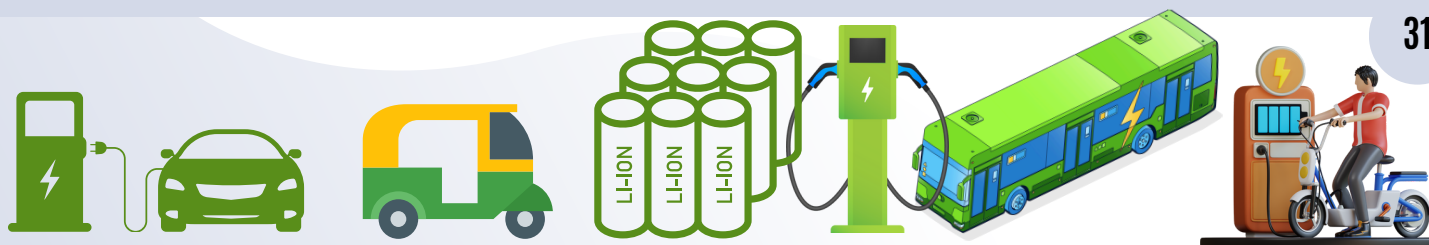
- ◆ The initiative will start with a feasibility study on government-owned lands.
- ◆ Tamil Nadu already operates ~1,300 EV charging stations and is developing a digital mapping system for user-friendly access.
- ◆ Relux Electric, one of India's leading EV charging infrastructure providers, will implement the project across key locations.
- ◆ This collaboration strengthens Tamil Nadu's vision of a sustainable, low-carbon mobility ecosystem.

This development reinforces Tamil Nadu's growing leadership in green energy and EV adoption, setting the stage for faster EV penetration in both urban and rural areas.

Sila

Sila has officially launched the first U.S. automotive-scale silicon anode plant at Moses Lake, Washington – a landmark step in strengthening domestic EV battery supply chains.

- The 600,000 sq. ft. facility is now producing Titan Silicon™, a next-generation anode material designed to replace graphite in lithium-ion batteries. With up to 20% higher energy density and 2x faster charging, Titan Silicon™ is set to reshape EV performance and accelerate clean energy adoption.
- Energy Independence: Reduces U.S. reliance on imported graphite.
- Sustainability: Powered by clean hydropower from the Columbia River.
- Scalability: Initial 2–5 GWh capacity, with potential to reach 250 GWh in five years.
- Economic Growth: Creating up to 500 skilled jobs via local partnerships.
- Applications Beyond EVs: From consumer electronics to satellites and defense.



Yangwang U9

World's Fastest Production Car is Now Electric – Yangwang U9 Xtreme Hits 496.22 km/

The automotive world has entered a new era of speed. The Yangwang U9 Xtreme, a luxury electric hypercar by BYD's premium sub-brand, shattered records at Germany's ATP Papenburg test facility – clocking an astonishing 496.22 km/h (308.4 mph).

This milestone places the U9 Xtreme ahead of the Bugatti Chiron Super Sport 300+ (490.48 km/h), making it the fastest production car in the world.



🔋 1,200-volt system – double the voltage of most EVs

⚙️ Four electric motors delivering 3,000+ hp

⚡ Ultra-thin silicon motors spinning at 30,000 rpm

🔑 LFP Blade Battery with 30C discharge rate

🚗 DiSus-X adaptive suspension for extreme stability





Delhi EV Policy

Delhi Announces All-Electric Public Transport Fleet By 2026 Under New EV Policy 2.0

Delhi's Chief Minister Rekha Gupta has announced the launch of a new Electric Vehicle Policy 2.0, aiming for a complete shift of the capital's public transportation system to electric power by late 2026.

- ✓ Cleaner Air through EV Adoption – Every 3rd vehicle in Delhi targeted to be electric.
- ✓ Road Safety & Enforcement – Stronger accountability on motorists to follow traffic rules, with stricter seatbelt and traffic law compliance.

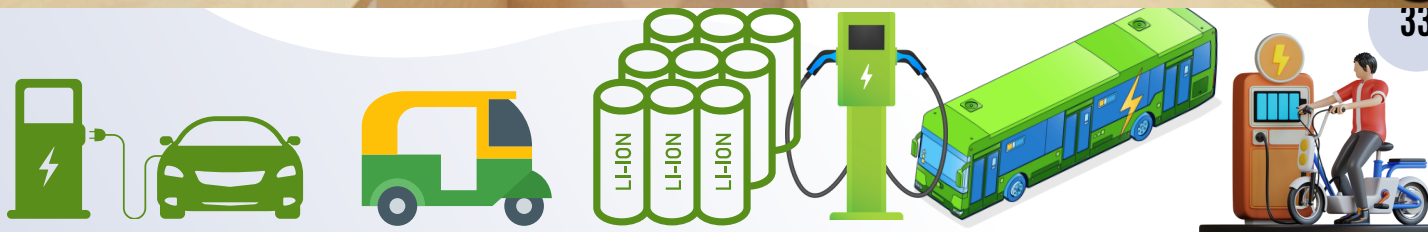
The EV Policy 2.0 builds on the original 2020 framework, now extended until March 31, 2026, and will undergo stakeholder consultations before implementation.

Raptee.HV Energy

Raptee.HV, a Chennai-based electric motorcycle startup, has created history by becoming the first EV motorcycle OEM in India to receive strategic funding from the Technology Development Board (TDB), Department of Science & Technology, Government of India.


Their innovation offers superior performance, reliability, and access to CCS2 fast-charging infrastructure.

- ◆ Over 156 patents filed, with 100% of electronics built in-house.
- ◆ Backed by ARAI-AMTIF in 2021 with a ₹3.25 crore grant – and now, with TDB's support, Raptee.HV joins the league of landmark Indian innovations like the Tata Indica and Bharat Biotech's COVID-19 vaccine.



EV Realty

EV Realty has taken a major leap forward in its mission to power the future of freight. Backed by a \$75 million growth equity investment from NGP (along with support from its management team), the company is scaling its Powered Properties® portfolio—bringing grid-ready charging hubs to the heart of logistics operations.



**Indian EV maker
Ultraviolette raises
\$21 million in
funding from Japan's
TDK Ventures, others**



KPIT Technologies

KPIT Technologies has taken bold steps to strengthen its future mobility portfolio with two major updates:

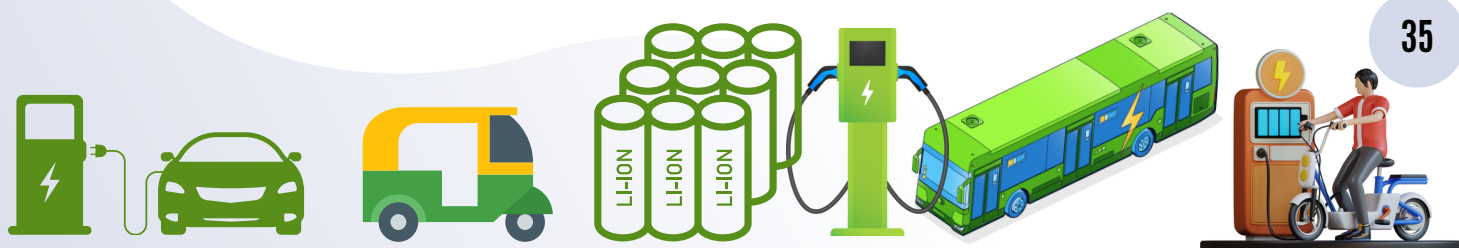
- ◆ US\$ 10 Million Investment in Helm.ai – A strategic bet on cutting-edge AI software for self-driving cars. The investment, via a SAFE Instrument, will be made in tranches based on synergy milestones. Importantly, Helm.ai will remain an independent entity, with no participative rights for KPIT.
- ◆ Acquisition of Caresoft Inc. Finalized – Valued at up to US\$ 157 Million, including performance-linked variable pay, this acquisition brings enhanced vehicle engineering, benchmarking, and downstream design capabilities. The integration is expected to fast-track OEM product launches while optimizing costs.



Blue Energy Motors

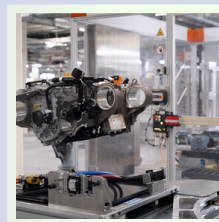
Pune-based Blue Energy Motors (BEM) has raised an additional \$30 million from Nikhil Kamath and Omnitex Industries, taking its total funding to \$50 million. This capital boost will power the company's scale-up in LNG & Electric Truck production.

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BMW Steyr

The BMW Group Plant Steyr has officially started series production of the sixth-generation (Gen6) electric engine for the Neue Klasse, marking a significant milestone in BMW's electrification strategy. This development positions Steyr as a cornerstone of BMW's global production network and underscores the company's commitment to sustainable mobility. Milan Nedeljković, BMW AG's Board Member for Production, emphasized, "Plant Steyr is central to the Neue Klasse," highlighting its role in shaping BMW's electric future.



Stellantis

Stellantis Unveils Breakthrough EV Battery – Cutting Charging Time & Boosting Efficiency
Stellantis has entered the next phase of EV innovation with the launch of its Intelligent Battery Integrated System (IBIS), developed in collaboration with Saft (a TotalEnergies company).

🚗 Unlike conventional systems, IBIS combines charging and motor functions directly inside the battery—making EVs lighter, more efficient, and easier to service.

✅ Test Results on the Peugeot E-3008 (STLA Medium Platform):

🕒 Charging time cut by 1 hour (7 hrs → 6 hrs on a 7 kW charger)

⚡ Energy efficiency up by 10%

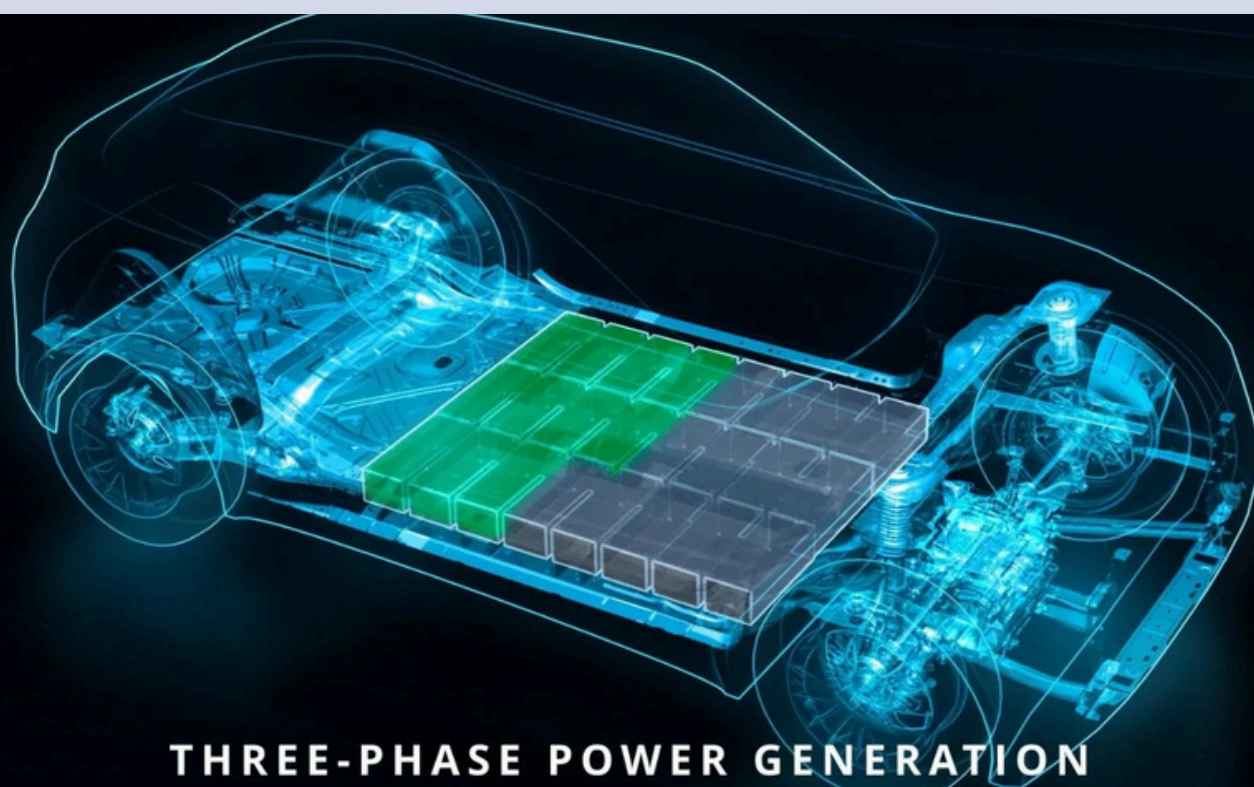
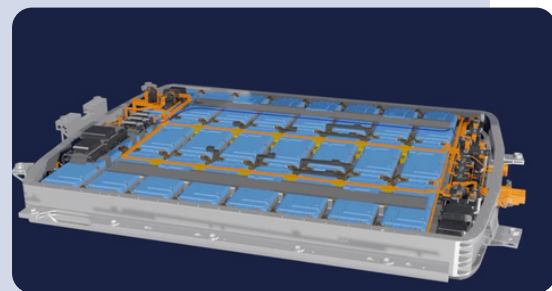
🔋 Power output boosted by 15% (150 kW → 172 kW)

🍃 Weight reduced by 40 kg, with 17 litres of extra space

🔧 Simpler servicing + stronger second-life potential

🌍 Beyond passenger cars, Stellantis envisions IBIS for rail, marine, aerospace, data centres, and energy storage systems—accelerating the transition towards sustainable electrification.

- The IBIS project, six years in the making, is now entering Phase 2 real-world testing. Stellantis targets production-ready deployment before 2030.





Contemporary Ampere Technology Co., Limited (CATL)

CATL has made a significant stride in EV battery technology with the unveiling of its sodium-ion battery, achieving:

- ✓ 175 Wh/kg energy density
- ✓ 500+ km driving range
- ✓ Mass supply planned for 2026 (aligned with customer timelines)

◆ Performance Edge:

While energy density is lower than lithium-ion, sodium-ion batteries excel in low-temperature performance, safety, and reduced carbon footprint — making them ideal for cold regions and sustainable transport expansion.

◆ Market Potential:

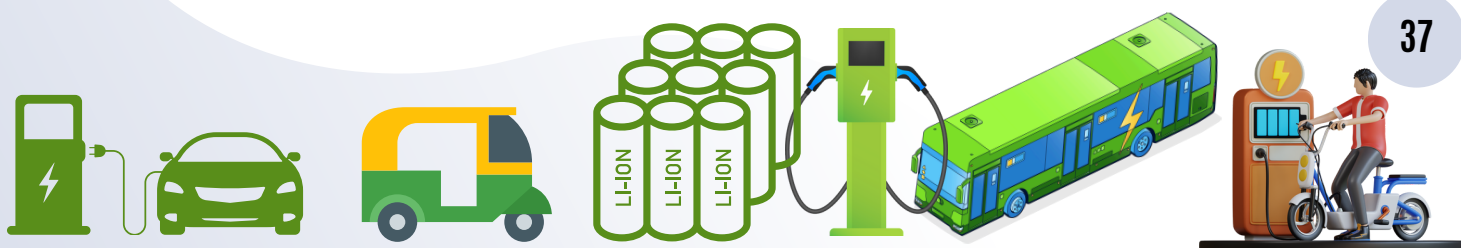
CATL projects sodium-ion batteries could meet 40% of domestic passenger vehicle demand. Compatibility with No. 20 and No. 25 modules (including swap formats) ensures seamless adoption without major redesigns.

◆ Safety First:

- CATL's sodium-ion battery became the first globally to clear China's GB 38031-2025 EV Safety Certification, ensuring fire resistance and thermal stability — a key milestone for global EV acceptance.



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Joint Ventures & Partnerships



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TATA Power - VECV

TATA Power EV Charging Solutions Limited (TPEVCSL) and VE Commercial Vehicles Ltd. (VECV) have announced a strategic partnership to accelerate electrification in the commercial vehicle sector.

- ◆ The collaboration will support truck and bus operators looking to introduce EVs into their fleets, starting with the newly launched Eicher Pro X range of Small Commercial Vehicles (SCVs).

- ◆ Tata Power will contribute its nationwide EV charging infrastructure and expertise, while VECV will focus on optimizing energy usage in electric trucks.

- ◆ Beyond SCVs, this alliance aims to enable the deployment of other Eicher EV models, creating a stronger foundation for India's transition to sustainable mobility.

- ◆ This partnership highlights how OEMs and energy providers are working together to fast-track EV adoption in commercial transport — a critical step toward reducing logistics emissions and achieving net-zero goals.

Montra Electric - NHEV

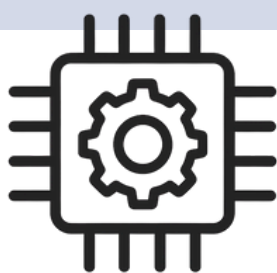
Montra Electric eHCV drives a first-of-its-kind partnership with Ease of Doing Business (EoDB) under the National Highway for Electric Vehicles (NHEV) initiative.

Montra Electric (IPL Tech) has become India's first electric truck OEM to join hands with EoDB, aiming to deploy 1,000+ electric trucks across sectors. This collaboration is designed to make clean freight commercially viable, supported by climate financing and pre-set commercial terms for fleet operators.

The partnership will also integrate Montra's eHCV trucks with advanced charging networks through NHEV's Connected Commercial Vehicle (CCV) framework. Live pilots on highway corridors will soon begin, testing real-world performance and developing a replicable fleet adoption model.



IOT

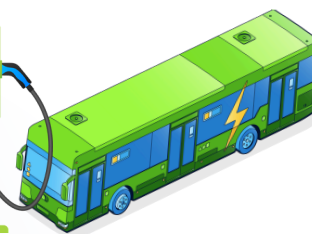
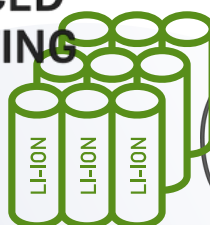
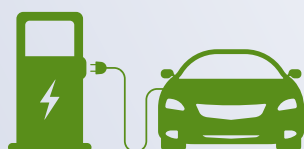


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Joint Ventures & Partnerships

EKA Mobility - Shriram Green Finance Ltd

EKA Mobility, a pioneer in electric vehicles and technology, has signed a Memorandum of Understanding (MoU) with Shriram Green Finance Ltd. (a 100% subsidiary of Shriram Finance Limited.).

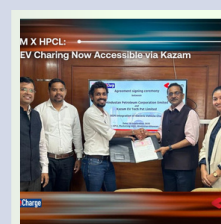


Kazam - HPCL

Kazam Charging has teamed up with Hindustan Petroleum Corporation Limited (HPCL) to expand India's EV charging landscape. ⚡

Through this partnership, EV users will gain real-time visibility of HPCL's rapidly growing "Mera HP Pump" charging network directly on the Kazam App, powered by their advanced OCPI platform.

This collaboration is a key milestone in strengthening India's EV charging ecosystem and plays a vital role in accelerating the country's transition toward sustainable mobility



Sasken Technologies Limited (India) - VicOne

Sasken Technologies Limited (India) has partnered with VicOne (Japan, subsidiary of Trend Micro) to deliver end-to-end automotive cybersecurity solutions for the future of connected and electric vehicles.

🔑 Why it matters: With rising cyber threats in the mobility ecosystem, this strategic alliance aims to create a secure, scalable, and regulation-ready framework for OEMs and Tier-1 suppliers worldwide.

⚡ What each partner brings to the table:

VicOne (Cybersecurity expertise):

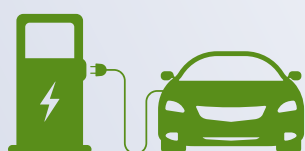
- xCarbon – Intrusion detection & prevention system
- vSOC – Fleet monitoring & threat response
- EVSE Security – Protection for EV charging infrastructure
- Global threat intelligence from Trend Micro



Electreon - ATLOS by CME

a global leader in wireless charging – has partnered with ATLoS, the Portugal-based autonomous vehicle manufacturer under Procme GmbH Group.

This strategic collaboration will integrate wireless charging technology into autonomous vehicles (AVs), creating sustainable, hands-free charging solutions for manufacturing hubs, warehouses, logistics, and ports.



Joint Ventures & Partnerships

Nissan Motor - LICAP Technologies

Nissan Motor Corporation Co., Ltd. has joined hands with LICAP Technologies, Inc. to transform the way all-solid-state batteries (ASSBs) are manufactured. The collaboration focuses on a dry electrode production process for cathode electrodes — a breakthrough aimed at cutting costs, reducing emissions, and enabling sustainable large-scale EV battery production.



JBM Group Electric Vehicles (India) - AI Habtoor Motors (UAE)

JBM Group Electric Vehicles (India) and AI Habtoor Motors (UAE) officially announced a strategic partnership to introduce JBM's advanced electric buses across the UAE. Under this agreement, AI Habtoor Motors will be the exclusive importer and distributor of JBM's e-buses, supporting the UAE's Net Zero by 2050 Strategic Initiative.

VECTOR Informatik - ARAI

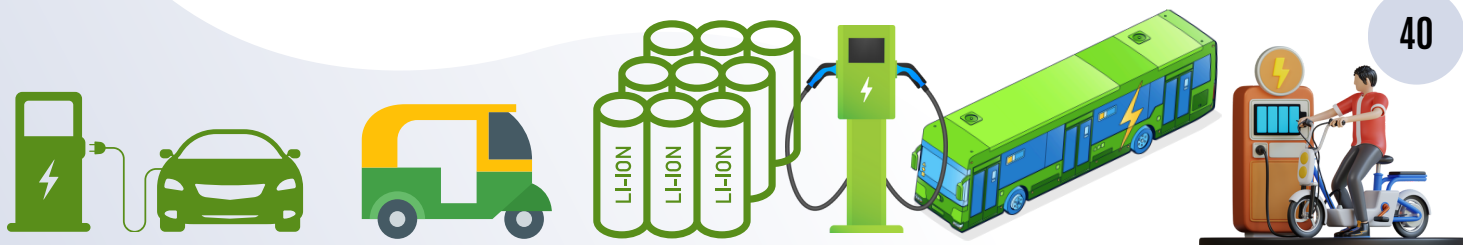
The Automotive Research Association of India (ARAI), an autonomous body under the Ministry Of Heavy Industries, has signed a strategic MoU with VECTOR Informatik India.

This collaboration is set to strengthen the ecosystem for vehicle safety, cybersecurity, and advanced driver-assistance systems (ADAS) — driving the future of intelligent and sustainable mobility.

🔑 Focus areas of the partnership include:

- ADAS & Automated Driving
- Cybersecurity
- AUTOSAR
- xEV Control Systems
- Software-Defined Vehicles (SDV)

This move will accelerate the development and validation of cutting-edge automotive technologies, ensuring safer, smarter, and more connected vehicles for the future.



Joint Ventures & Partnerships

Tata Motors - ThunderPlus

Tata Motors Limited and ThunderPlus Solutions Pvt. Ltd. have joined forces to accelerate electric vehicle adoption across India's tier-2, tier-3 cities and rural markets by tackling one of the biggest barriers – charging infrastructure.

Over 250 ThunderPlus charging hubs will be upgraded with 3.3 kW charge points, creating accessible charge + park facilities for Tata Ace EV Pro users.

Deployment of 30 kW GB/T chargers will expand support to Tata's wider EV lineup – Ace 1000 EV, Ace Pro, and Express-T.



STERLING GTAKE E-MOBILITY LTD. - LANDWORLD TECHNOLOGY

STERLING GTAKE E-MOBILITY LTD. has announced a partnership with China's LANDWORLD TECHNOLOGY to boost local manufacturing of critical EV components including:

- ◆ On-board Chargers
- ◆ DC/DC Converters
- ◆ Multi-function Units (integrating On-board Chargers, DC/DC Converters & Power Distribution Units)



techtron -EV7+ Smart Charger

techtron® Future Tech Ltd has officially launched its EV7+ Smart Charger, designed to redefine the home charging experience for modern EV owners.

🔑 Key Highlights of the EV7+ Smart Charger

High-Speed Charging: Up to 7.6kW (32A) single-phase AC power for faster charging.

Smart Connectivity: Integrated 4G, dual-band Wi-Fi, and Bluetooth 5.3 for remote monitoring and control.

All-Weather Reliability: IP67-rated control box & charging gun ensure durability in any outdoor condition.

Joint Ventures & Partnerships



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Switch Mobility - Bluwheelz

Switch Mobility has signed an MoU with Bluwheelz for the supply of 300 SWITCH IeV Series electric Light Commercial Vehicles (e-LCVs).

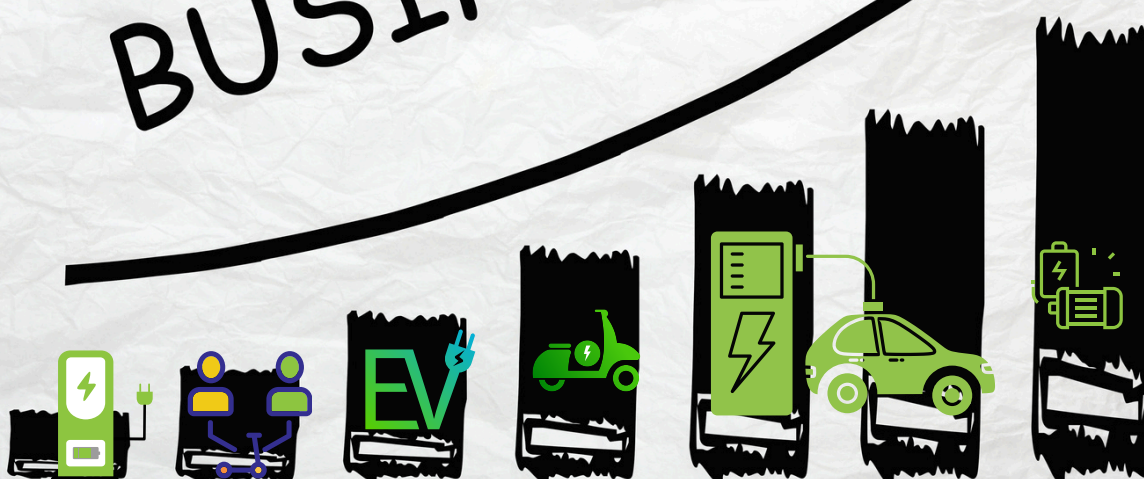
These vehicles will be deployed for last-mile and mid-mile logistics, strengthening the role of EVs in sustainable freight movement.

This partnership not only expands EV adoption in the logistics ecosystem but also drives the industry's transition towards low-emission and cleaner transportation solutions.

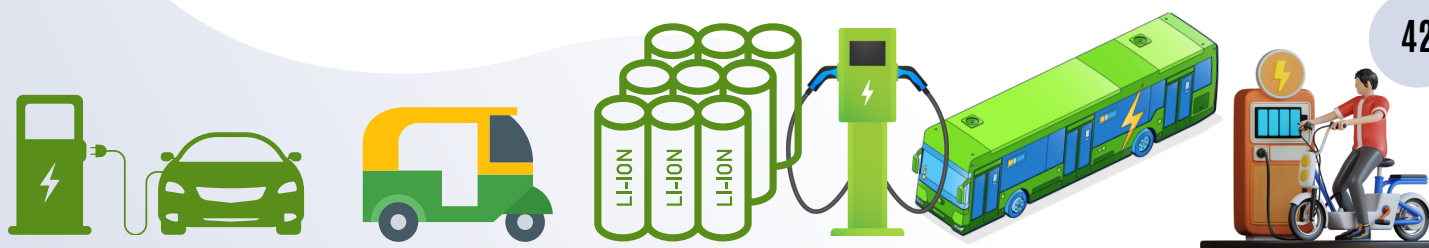


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Confederation of Indian Industry

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Auto Components Show 2025

11-13 Oct 2025 at Chennai Trade
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AUTO COMPONENTS SHOW 2025



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India Expo

18th
edition

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India Expo Mart, Greater Noida

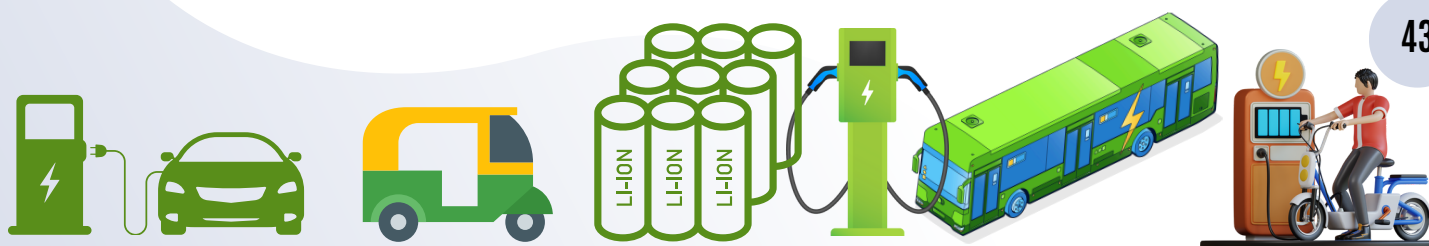
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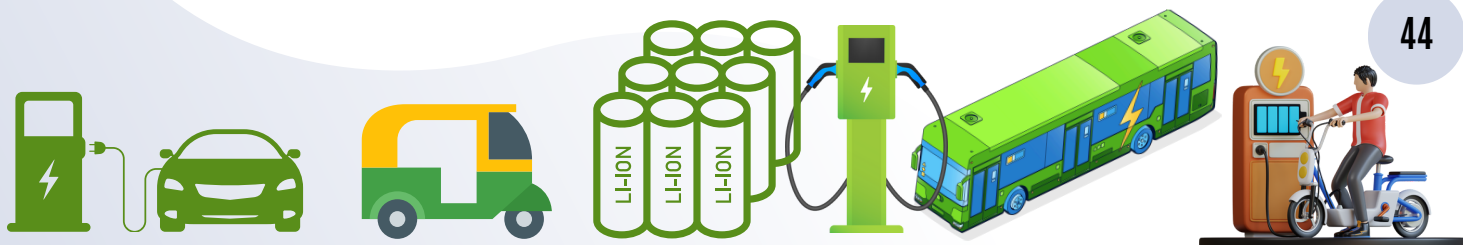
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New Launch



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Montra Electric eM&HCV -Rhino 5538 EV 4x2 TT

- 282 kWh LFP battery
- Swap takes less than 6 minutes
- 380 HP and 2000 Nm torque
- 198 km range under standard test conditions
- 6-speed AMT transmission
- Backed by an AMC contract for 10 years/9 lakh km
- Gross Combination Weight (GCW) - 55 tons

priced at ₹1.15 crore (ex-factory) for the fixed-battery variant and ₹1.18 crore (ex-factory) for the battery swapping variant.



ZELO Electric - Knight+ ₹59,990!

- 🔋 100 km real-world range with a 1.8kWh LFP portable battery
 - ⚡ Fast charging & removable home-charging convenience
 - 🛡️ Hill hold control, 📱 USB port, 🚗 Cruise control, and
- Powered by a 1.5kW motor and peaking at 55 km/h



Omega Seiki Mobility (OSM)

OSM launches **Swayamgati** — a production-ready, autonomous electric 3W priced at ₹4 lakhs for the passenger version.

New Launch



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Ultraviolette Automotive X47 Crossover

Premium electric two-wheeler maker Ultraviolette on Tuesday launched a new motorcycle, X47 Crossover, at a starting price of Rs 2.74 lakh.

- IDC range: 323 km
- Peak output: 40 hp (30 kW) | Torque: 100 Nm (610 Nm at the rear wheel)
- Acceleration: 0–60 km/h in 2.7 sec | Top speed: 145 km/h
- UV HyperSense radar system with blind-spot monitoring, lane change assist, overtake alerts & rear collision warning
- Charging: Type 6 DC fast charging + Type 2 AC car charging (with in-house developed onboard charger & parallel boost charging)



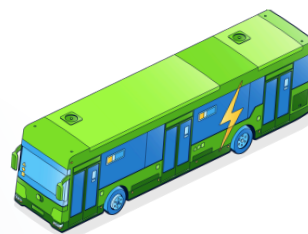
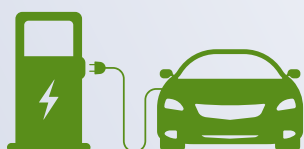
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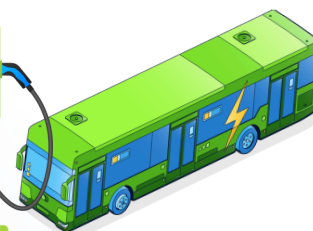
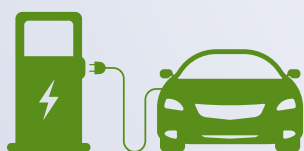
Volvo EX30

EX30 churning out 268 bhp and 343 Nm. It has a 69 kWh battery pack with a claimed range of 480 km (WLTP). The EX30 can sprint from 0 to 100 kmph in 5.3 seconds and has a top speed of 180 kmph.



Euler Turbo EV 1000

- Euler Motors has expanded its portfolio by launching the new Turbo EV 1000, a 1-tonne electric commercial vehicle priced from ₹5.99 lakh
- Real-world range of 140-170 km and 140 Nm of peak torque



Report - Guide to EV Charging Infrastructure and Grid Integration

Rising oil prices and rising energy demand have led to the high cost and capital consumption, as the transportation ecosystem's reliance on non-renewable energy sources has played an adverse role in recent years. The Government of India has developed a number of policies to encourage and facilitate the development of EV charging infrastructure in India.

The Indian government does not plan to mandate standardized charging ports for electric scooters, allowing manufacturers to use their own standards. This flexibility has resulted in a diverse charging infrastructure, posing challenges for EV owners in ensuring compatibility with public charging stations. Resulting in a varied landscape for EV charging infrastructure.

EV infrastructure encompasses **Level 1, Level 2, and DC fast chargers**, meeting diverse user needs, from home charging to rapid refuelling at public stations. AC charging is ideal for overnight charging at homes or workplaces with Level 1 & Level 2 standard chargers.

On November 7, 2023, the Ministry of Heavy Industries (MHI) introduced a new phased manufacturing program (PMP) for electric vehicle (EV) charger components under the **FAME India Scheme Phase-II** to boost domestic production. Outlined a comprehensive list of charger components and their timelines for the transition to domestically manufactured parts.

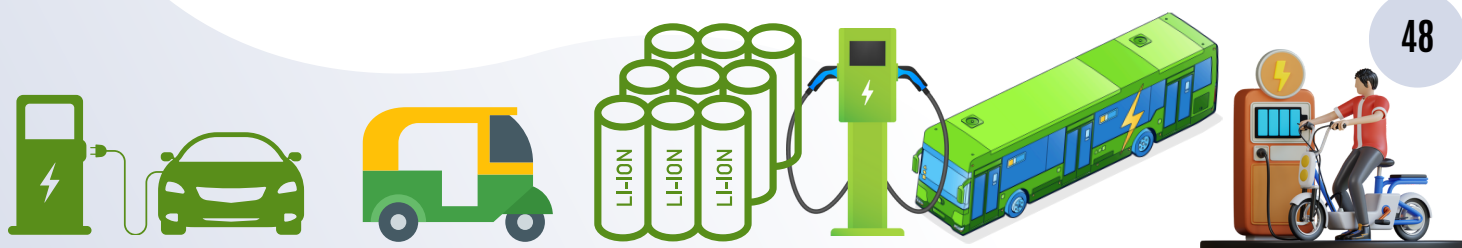
DC charging, including Level 3 fast chargers, is suitable for rapid charging in commercial areas, highways, and high-traffic locations. **Battery swapping** innovations offer quick alternatives, reducing downtime and addressing range anxiety. EVs can now be charged wirelessly via inductive or resonant systems, thanks to emerging technologies.

Smart grid integration optimizes charging times based on grid demand and renewable energy availability for efficient load management. Charging stations require reliable power, proper infrastructure, spacing, signage, safety features, and compliance with regulations and environmental guidelines. Balancing charging stations in urban and rural areas ensures widespread accessibility. Collaborations among governments, private corporations, and utility suppliers expedite infrastructure expansion by leveraging their assets. **Adhering to international charging standards** like CCS and CHAdeMO ensures interoperability among EVs and various charging stations through open communication protocols.

Obtaining **Environmental certifications** for charging stations and integrating solar and wind energy into infrastructure enhances sustainability and reduces EVs' carbon footprint.

In this article you will get the Idea of EV infrastructure promises a cleaner, more accessible world. Embrace the journey, where every charge fuels not just vehicles, but a greener tomorrow. The road ahead is electrifying, and the future is now.

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Report - Guide to EV Charging Infrastructure and Grid Integration

Annexures

1. EV Charging Infrastructure Strategy in India
 - a) Working Principle
 - b) Types of Charging
 - c) Charging levels
 - d) Speed of Charger
 - e) Fast Charging
 - f) Types of Connector
 - g) Battery Swapping
2. Grid Integration
 - a) Distribution from HV bus to charging station unit
 - b) Arranging supply
 - c) Planning & Requirements for Charging Station
 - d) Utilization of different segments
 - e) Benefits and Guidelines
3. Implementation of Charging Station
 - a) Planning and Allocation
 - b) Mode of Implementation
 - c) Indian Regulation and Standards
 - d) Costing and setting up EV public charging station (PCS)
 - e) Roles and Responsibilities
4. Communication Protocol
5. Smart-connected EV Charging
6. Government Initiatives and Schemes under Fame II

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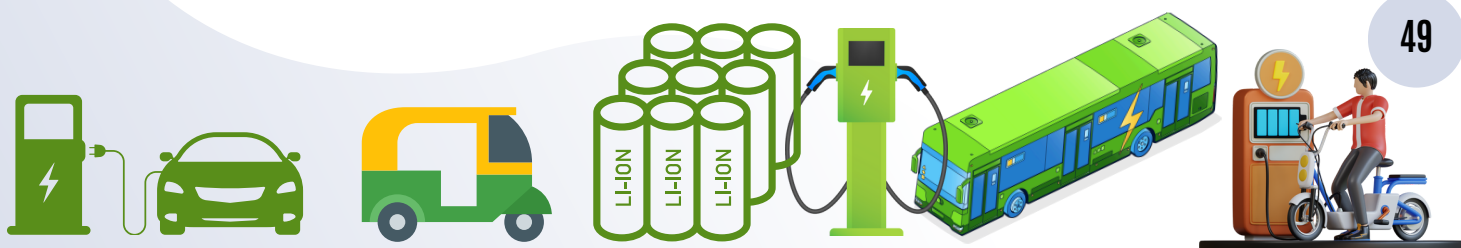
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Report - Guide to Basics of Semiconductor



The transition of from traditional internal combustion engines (ICE) to electric vehicles (EVs) marks a significant shift in the automotive industry, presenting both challenges and opportunities for individuals and businesses alike.

As the **Indian Automobile ecosystem adapts to this transformative trend from the conventional mechanical to electrification path**, it becomes imperative for newcomers from mechanical backgrounds to familiarize themselves with the basics of semiconductors and its manufacturing process, a vital component in electrification roadmap.

With **OEM's and Tier-1 suppliers gearing up to build their teams and capacities** in response to the growing demand for next generation mobility, **understanding the fundamental principles of semiconductors becomes crucial for effectively contributing to this dynamic industry.**

This **compiled report serves as an essential guide** commences with an introduction to **key PCB components, semiconductors**, explaining their role as materials that lie between conductors and insulators. It gets into the atomic structure of semiconductors and the concept of doping, which enhances their electrical properties. An exploration of semiconductor devices, such as **microcontrollers, microprocessors, transistors, IC's, diodes, showcases their significance in electronic circuits and their impact on the efficient functioning of automobiles.**

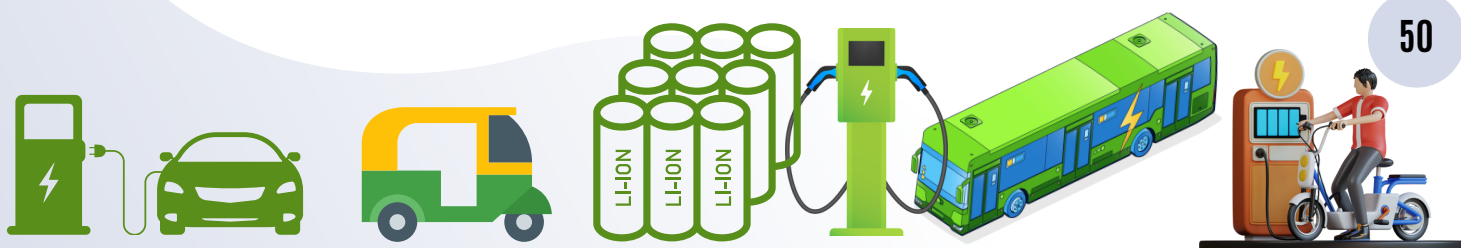
Next, the report briefs the **semiconductor manufacturing process**, Moore's Law and steps involved in producing integrated circuits in **fabrication facilities (fabs)**. It discusses the **distinction between fabs, foundries and IMD**, emphasizing their relevance in the current Indian semiconductor ecosystem, where suppliers are positioning themselves to cater to the surging demand for semiconductor chips in the EV market.

Semiconductors play an indispensable role in the efficient functioning of electric drivetrains, battery management systems and charging infrastructure.

As Indian Tier-1 suppliers slowly build their teams and capacity to meet the demands of the fast-growing Indian EV sector, there are **challenges and stiff competition** that are ahead and Government of India is supporting through with necessary research infrastructure and launching incentive schemes through "India Semiconductor Mission".

Overall, this **report guides new entrants transitioning from mechanical to electrification stream and focusing on the semiconductor domain** to navigate their transition successfully and empowering them to contribute effectively to the **growing Electrification in Indian Automobile ecosystem.**

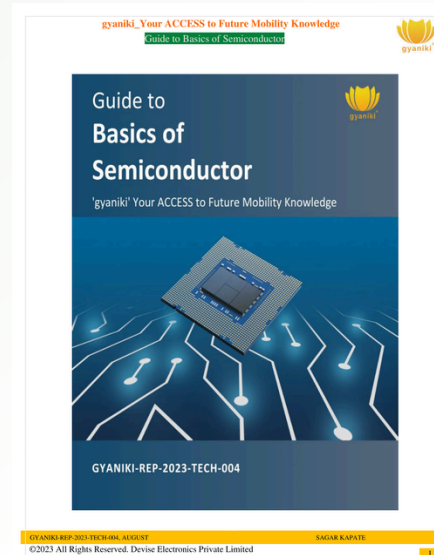
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Report - Guide to Basics of Semiconductor

Report Content

1. Key Components on PCB
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 - b) Microprocessors
 - c) Hardware Interfacing
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4. Semiconductor Value Chain and Players
5. Semiconductor Products and Application
6. India's Semiconductor Mission (ISM) and Incentive Schemes



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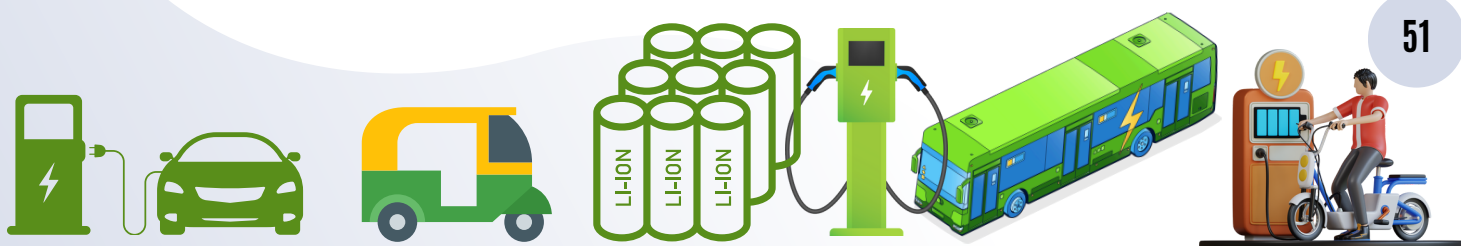
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'gyaniki' has evolved as a technology based digital portal platform created for researchers, product developers, industry professionals and academia members with a vision of incremental expansion in bridging the future mobility ecosystem through our services.

'gyaniki' undertakes specialized and customized research in Future Mobility

Our techno-commercial research covers on the core areas of:

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- Key Components and Process
- Technologies
- Manufacturers and Suppliers
- Latest & upcoming industry trends (LiDAR, Neural Networks, Sensor fusion)
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- Tools of the trade. In design, simulation & validation (e.g.: GT suite, Simulink)
- Standards, Testing & Regulatory information.

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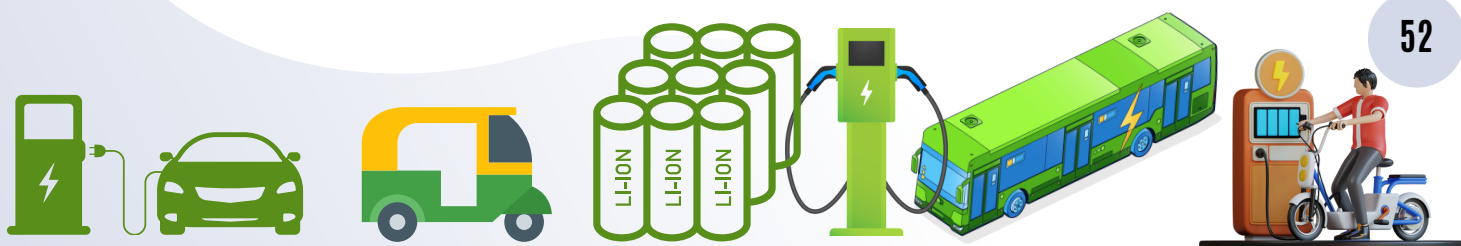
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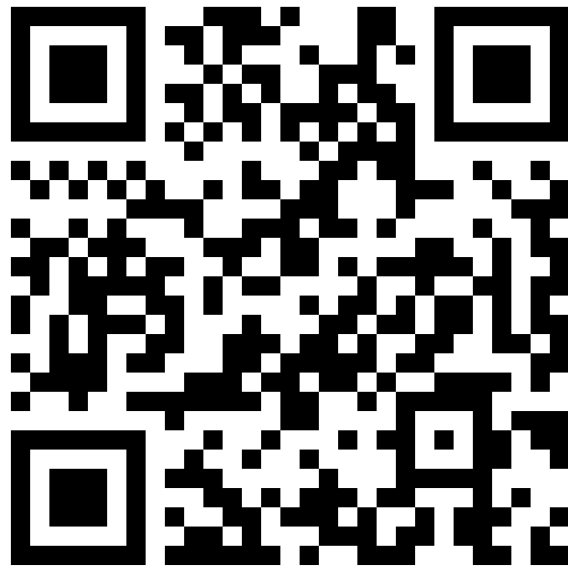
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