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India's EV Sales cross 2 million in CY 2024

The future of mobility is electric, and India is riding the wave of the e-mobility revolution. As of 2024, the country boasts over 5.6 million electric vehicles (EVs). This year, India achieved a historic milestone by crossing the 2 million mark in EV sales for the first time. In 2023, total EV sales were approximately 1.6 million units. Excitingly, in 2024, that figure surged to over 2 million units, marking a 24% growth, reflecting increased consumer demand. Consequently, the penetration of EVs in India's overall vehicle market rose to approximately 8%, up from 6.8% the previous year.

Segment-Wise Growth in CY2024

Electric Two-Wheelers:

Electric two-wheelers led the charge,

dominating the market with nearly 60% of total EV sales, translating to 1.2 million units. This segment enjoyed robust year-on-year (YoY) growth of approximately 30%, reflecting the growing preference for e-scooters and e-bikes among urban commuters seeking cost-effective, eco-friendly alternatives.

Electric Three-Wheelers:

In a close second, the electric three-wheeler segment, the second largest by volume, experienced rapid expansion and competitiveness. In 2024, this segment sold 694,466 units, representing a YoY rise of approximately 18%. The electric three-wheeler cargo segment saw maximum YoY growth of almost 45%, driven by the thriving logistics

and e-commerce sectors, as well as favorable cost economics.

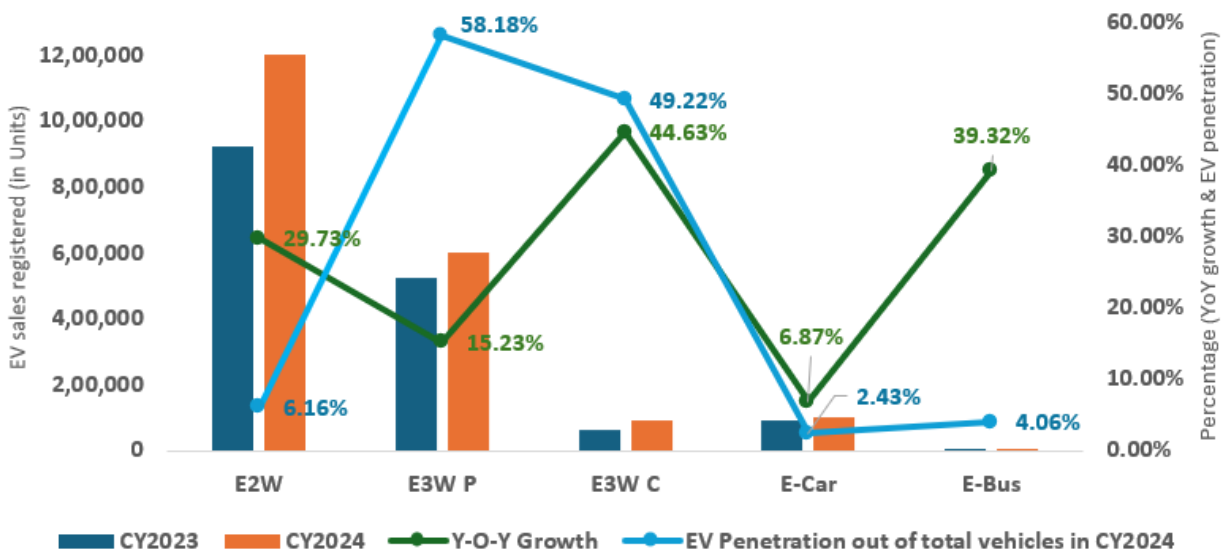
Electric Cars:

The electric car segment, though smaller in comparison, continues to show steady progress, with 99,848 units sold, marking a YoY growth of 6.9%. This segment accounts for around 5% of total EV sales.

Electric Buses:

Electric bus sales experienced substantial growth, increasing by 39% in CY2024, reaching 3,834 units. This growth is expected to accelerate further, driven by the targets and incentives under the PM E-DRIVE scheme, which aim to boost the adoption of e-buses across major cities in the country.

Fig 1: Comparison of EV Sales, Growth Rate, and Market Penetration by Category (CY2023 vs. CY2024)



Source: Vahan Dashboard, Telangana State RTO, JMK Research

EV sales for CY2024 include Telangana sales up to November 2024 only.

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Market Leaders in EV Segments

Electric Two-Wheelers (E-2W):

Ola Electric dominated the segment with 425,600 units sold, accounting for 35.42% of the market, followed by TVS Motor Company (19.49%), Bajaj Auto (16.58%), Ather Energy (11.08%), and Hero MotoCorp (3.78%). Bajaj Auto had its best-ever annual retail performance with 199,206 Chetaks sold, representing a ~145% YoY growth, increasing its market share to ~17% from ~6% the previous year. Ather Energy achieved its highest yearly sales in CY2024 with a ~15% YoY rise, while Hero MotoCorp saw a nearly fourfold increase in sales of its Vida e-scooters.

Electric Three-Wheelers (E-3W) Passenger:

The e-3W passenger segment remains highly fragmented, with over 500 players. Mahindra Last Mile

Mobility, the market leader, sold 58,983 units in CY2024, achieving robust YoY growth of ~28% and capturing ~10% of the market share. Bajaj Auto, a relatively new entrant in the e-3W category, recorded an impressive YoY growth rate of 810% in the passenger segment, demonstrating significant market traction. Meanwhile, Saera and Dilli Electric faced challenges, with sales dipping by 7% and 6%, respectively.

Electric Three-Wheelers (E-3W) Cargo:

In the e-3W cargo segment, Mahindra LMM maintained its position as the market leader in CY2024, with a modest ~0.3% YoY growth, accounting for ~11% of the market share. Building on its strong performance in the electric two-wheeler and electric passenger three-wheeler segments, Bajaj Auto made significant strides in the electric three-wheeler cargo

segment, recording a remarkable YoY growth of ~1290% and securing a 4.7% market share. This success was driven by sustained demand, increased production capacity, and an expanded EV sales network.

Electric Cars (E-Car):

Tata Motors retained its dominance in the e-car segment with a market share of ~62%, followed by MG Motor India at 22%. Other significant players include Mahindra & Mahindra (7%), BYD (2.85%), and PCA (2.19%). Despite its strong position, Tata Motors saw a ~7% YoY decline in sales. In contrast, MG Motor India sold 21,966 EVs in 2024, resulting in an impressive ~86% YoY growth.

Electric Buses (E-Bus):

All key players achieved considerable growth in sales in CY2024, with Tata Motors retaining its leadership position.

Table 1: Comparison of Top EV OEMs Sales in CY2024: CY2023 vs. CY2024

| OEM | Segment | Sales in CY2023 (in Units) | Sales in CY2024 (in Units) | Y-O-Y Growth (in %) |
|----------------------------------|---------|----------------------------|----------------------------|---------------------|
| Ola Electric | E2W | 2,85,568 | 4,25,600 | 49.04% ↑ |
| TVS Motor | E2W | 1,83,129 | 2,34,111 | 27.84% ↑ |
| Bajaj Auto | E2W | 81,460 | 1,99,206 | 144.54% ↑ |
| Ather Energy | E2W | 1,16,079 | 1,33,169 | 14.72% ↑ |
| Hero MotoCorp | E2W | 12,062 | 45,411 | 276.48% ↑ |
| Mahindra LMM | E3W P | 46,212 | 58,983 | 27.64% ↑ |
| YC Electric | E3W P | 38,676 | 39,604 | 2.40% ↑ |
| Bajaj Auto | E3W P | 4,308 | 39,212 | 810.21% ↑ |
| Saera Electric | E3W P | 27,905 | 25,838 | -7.41% ↓ |
| Dilli Electric | E3W P | 22,040 | 20,719 | -5.99% ↓ |
| Mahindra LMM | E3W C | 9,716 | 9,748 | 0.33% ↑ |
| Omega Seiki | E3W C | 3,461 | 5,196 | 50.13% ↑ |
| YC Electric | E3W C | 2,158 | 4372 | 102.59% ↑ |
| Dilli Electric | E3W C | 3,061 | 4333 | 41.56% ↑ |
| Bajaj Auto | E3W C | 305 | 4,237 | 1289.18% ↑ |
| Tata Passenger Electric Mobility | E-Car | 65,946 | 61,565 | -6.64% ↓ |
| MG Motor India | E-Car | 11,833 | 21,966 | 85.63% ↑ |
| Mahindra & Mahindra | E-Car | 5,143 | 7,172 | 39.45% ↑ |
| BYD India | E-Car | 2,750 | 2,842 | 3.35% ↑ |
| PCA | E-Car | 2,372 | 2,188 | -7.76% ↓ |
| Tata Motors | E-Bus | 1300 | 1462 | 12.46% ↑ |
| Olectra | E-Bus | 440 | 792 | 80.00% ↑ |
| JBM Auto | E-Bus | 256 | 556 | 117.19% ↑ |
| PMI | E-Bus | 287 | 534 | 86.06% ↑ |
| VE Commercial | E-Bus | 61 | 138 | 126.23% ↑ |

Outlook for the Future

Electric vehicles have emerged as a bright spot in India's automotive landscape, becoming increasingly mainstream due to rising awareness and supportive government incentives. Schemes like the EMPS and PM E-Drive have played a pivotal role in accelerating this shift. As we look towards 2025, the industry remains optimistic about sustained growth, expecting the momentum of EV adoption to continue. However, challenges such as rising prices, affordability concerns, and slowing demand in urban markets could hinder growth. In 2024, companies responded to these challenges by offering aggressive discounts, especially during the festive season. With many automakers planning to launch exciting new products in 2025, optimism remains high for broader EV adoption nationwide.

Source: Vahan Dashboard, Telangana Dashboard, JMK Research

EV sales for CY2024 include Telangana sales up to November 2024 only.

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Accelerating the future
of sustainable mobility

Honda forays into electric 2W space with ACTIVA e: and QC1

Honda Motorcycle & Scooter India (HMSI) has ushered into the next era of mobility with the introduction of 'ACTIVA e:' and 'QC1' in the electric vehicle segment. The unveiling of the iconic Activa brand in an all-new electrified avatar along with the QC1 marks a pivotal moment in the brand's commitment to sustainable mobility in India. The debut of HMSI's first-ever EVs took place in Bengaluru,

Karnataka. Bookings for the same will begin on January 1, 2025, and deliveries will commence from February 2025 onwards.

Introducing Honda's maiden EVs for the Indian market, Mr. Tsutsumu Otani, Managing Director, President & CEO, Honda Motorcycle & Scooter India, said, "Today is a very significant day as HMSI steps into the electric mobility space. The introduction of ACTIVA e:

and QC1 marks a defining step in our commitment to sustainable mobility in India. It is in line with Honda's global 'Triple Action to ZERO' concept to realize carbon neutrality by 2050, which focuses on three areas: carbon neutrality, clean energy, and resource circulation. With our EV roadmap now in the execution phase, HMSI is committed to build one of India's best EV ecosystems. This is a milestone

HONDA

The Power of Dreams

Honda's senior management with ACTIVA e and QC1



moment in Honda's journey to electrification, and with every step forward, we are focused on building a future that is safer, more sustainable & meets the evolving needs of our society."

Commenting on the unveil, Mr. Yogesh Mathur, Director, Sales and Marketing, Honda Motorcycle & Scooter India, said, "We are ecstatic to mark our entry into the Indian EV market with not just one but two all-new electric vehicles, marking a significant milestone in our journey towards achieving sustainability by providing cleaner mobility solutions. In line with the global direction, we are introducing these new two-wheelers to electrify your dreams. With ACTIVA e's swappable battery technology

and QCI's fixed battery set-up along with the industry-leading hassle-free ownership experience, we are striving to meet the diverse needs of our customers. Moreover, to ensure the highest level of safety for our technicians and the vehicle, we are introducing industry-first insulated tools designed specifically for the servicing of electric vehicles. Together, let us ride towards a cleaner future."

Honda ACTIVA e: | Swap easy. Ride easy.

Youthful Design meets Iconic Heritage

The all-new ACTIVA e: is a groundbreaking step into the world of electric mobility, all while staying true to the brand's iconic legacy. The ACTIVA

e's design blends the beloved Activa silhouette with modern, sophisticated elements, giving it a fresh yet familiar look that speaks about both tradition & innovation. Equipped with pristine all-LED headlight & tail lamp along with smiling DRLs, the ACTIVA e: lights up the road with style, offering a sleek, striking appeal that is both bold and refined.

Accentuating its premium fluidic design language with daily use practicality are elements like dual-tone seat, 12-inch diamond cut alloy wheels, flat footboard & a sturdy grabrail. Available in two variants – ACTIVA e: and ACTIVA e: Honda RoadSync Duo® along with five fresh colours, this new model is designed to offer a combination of elegance and

How we move you.

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It will be offered in Pearl Shallow Blue, Pearl Misty White, Pearl Serenity Blue, Matt Foggy Silver Metallic and Pearl Igneous Black colours.

Modern Features for a Connected Ride

With progressive technology at the core of Honda's Research & Development, the Honda ACTIVA e: is all-set to elevate the riding experience of modern customers. At the heart of its advanced feature list is a 7.0-inch TFT screen that offers real-time connectivity with Honda RoadSync Duo® app, allowing riders to stay connected and updated.

The in-vehicle infotainment system supports navigation and also gets day & night modes which optimizes screen's brightness and readability as per ambient light automatically. The TFT screen can be controlled by using toggle switches placed on the handlebar. The ACTIVA e: also comes with Honda's H-Smart key that gets features like Smart Find, Smart Safe, Smart Unlock and Smart Start.

Revolutionary Swappable Battery Technology

The ACTIVA e: introduces a new era of convenience and efficiency in electric mobility with its swappable battery technology, allowing for a quick and easy recharge to keep riders on the go. It is equipped with Honda Mobile Power Pack e: which are swappable batteries developed and maintained by Honda Power Pack Energy India Pvt. Ltd. The ACTIVA e: gets two such swappable batteries, each of 1.5 kWh capacity, and it is tested to offer a range of 102 km* on a full charge.

The swappable batteries can be exchanged with the help of designated Honda Power Pack Exchanger e: (BeX swapping stations) planned across the city for a seamless experience. It is already live in Bengaluru & Delhi

and will be soon started in Mumbai as well. Powering the ACTIVA e: is an advanced in-house developed permanent magnet synchronous electric motor that delivers 6 kW* of peak power and 22 Nm* of torque for impressive performance. It can sprint from 0 to 60 km/h in 7.3 seconds and has a top speed of 80 km/h. The ACTIVA e: gets three riding modes, namely Econ, Standard & Sport.

Honda QCl | Go New. Go Far.

Sleek, Seamless Styling That Stands Out

The new Honda QCl is a personal mobility solution that combines fluidic design and sophisticated engineering. Its seamless styling symbolizes elegance with its smooth body lines flowing across the surface. Sporting a sleek design with LED headlights & tail lamp, as well as clear wipers, the new QCl is set to make a statement on the road.

To blend right with your personality, the new QCl is offered in five vibrant colour options. They are – Pearl Serenity Blue, Pearl Misty White, Matt Foggy Silver Metallic, Pearl Igneous Black, and Pearl Shallow Blue. This electric scooter also boasts classy rear-view mirrors, stylish 12-inch front alloy wheel, a sturdy grab rail, and an overall eye-catching futuristic look that will appeal to modern-day riders.

Advanced Battery and Charging Technology

Under the sleek exterior, the Honda QCl is powered by a 1.5 kWh fixed battery pack that has been rigorously tested to provide an impressive range of 80 km* on a single charge, enabling riders to travel with ease. Charging the QCl is effortless at home with a 330-watt off-board home charger that comes with an auto-cut technology, ensuring a safe and efficient charging process.

It can be charged from 0 to 80% in

4 hours 30 minutes while a full juice up will take 6 hours and 50 minutes. The QCl gets an in-wheel electric motor that has a peak power rating of 1.8 kW* and maximum torque of 77 Nm*. It has a top speed of 50 km/h. Moreover, there are two riding modes, Standard & Econ, that adjust power and efficiency based on the rider's preference, delivering a tailored riding experience.

Features for Enhanced Convenience

The Honda QCl is packed with features that keep convenience at the forefront. There is a 5.0-inch all-info LCD display that offers all the vehicle information in a simplified manner at one glance. For added utility, it gets a USB Type-C outlet to charge all your personal mobile devices on the go, along with an ample 26-litre under-seat storage box, making the QCl perfect for daily commutes.

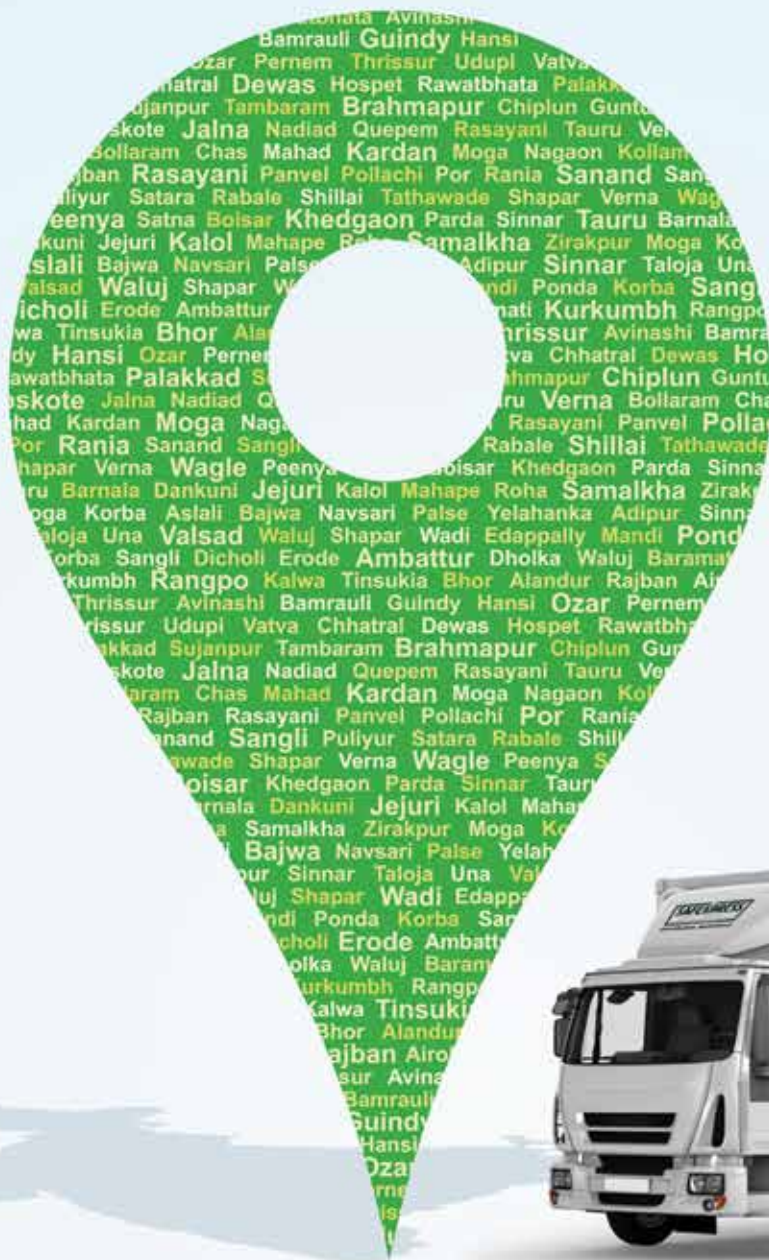
Unmatched Ownership Experience:

Honda is raising the bar in EV segment with the launch of ACTIVA e: and QCl, setting a new standard for customer satisfaction. Both these electric scooters will be sold via HMSI's existing selected dealer network. The ACTIVA e: will be available in Delhi, Mumbai & Bengaluru with deliveries starting from February 2025 onwards. The QCl will be initially available in select cities from February 2025 onwards.

Both the EV models will be manufactured at HMSI's Narsapura plant near Bengaluru in Karnataka. These models will be offered with 3 years or 50,000 km warranty along with three free services for the first year. Honda is aiming to elevate the customer experience to unparalleled heights by also providing free roadside assistance for the first year. These benefits underscore Honda's unwavering commitment to delivering a seamless ownership journey, solidifying its EVs as an obvious choice for customers.

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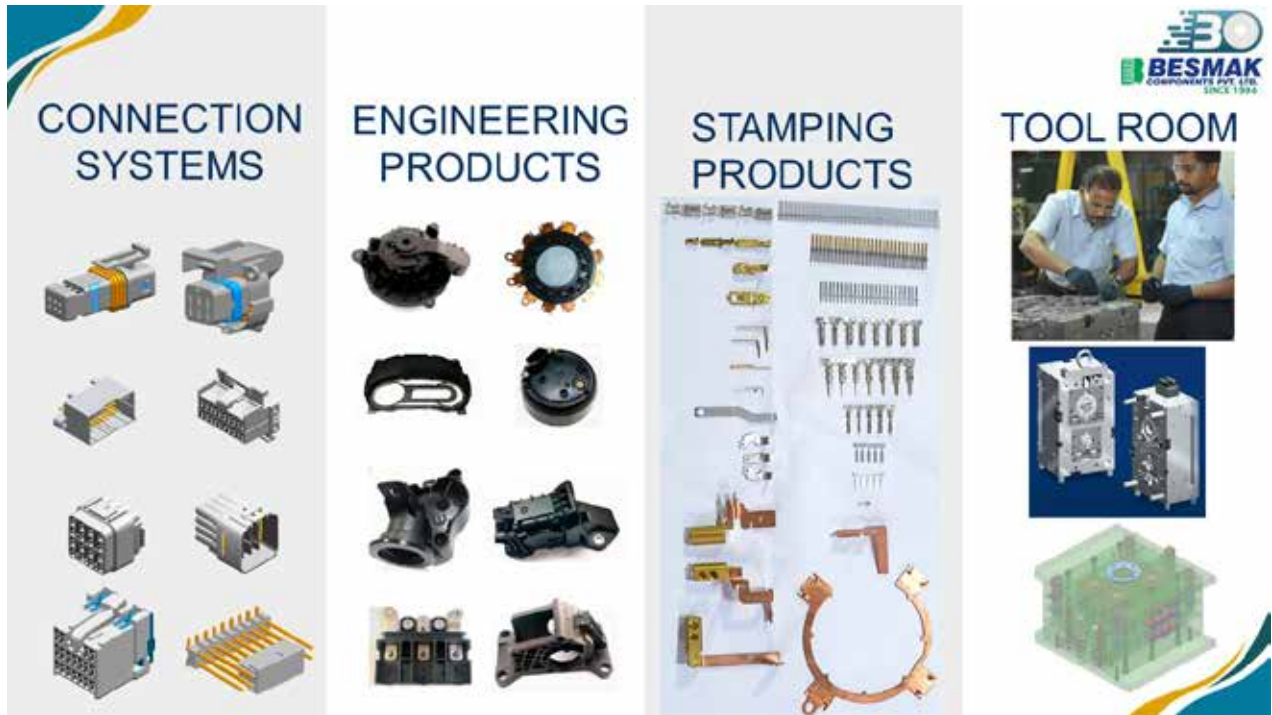
C. N. Hari,
Founder, Besmak

PIONEERING PRECISION & INNOVATION IN THE AUTOMOTIVE & EV REVOLUTION

As the global automotive industry accelerates towards a future defined by connectivity, sustainability, and electric mobility, Besmak Components Private Ltd stands at the forefront of this transformation. With over three decades of expertise, Besmak leads the charge by offering advanced connection systems, specialized engineering parts, and precision stampings equipped with in-house tooling capabilities for the automotive and EV markets.

Comprehensive Connection Solutions and Precision Parts

At the heart of Besmak's success is its ability to deliver cutting-edge solutions tailored to the modern demands of the automotive and EV industries. The company's product portfolio reflects its deep commitment to addressing evolving industry requirements:



- Connection Systems:** Besmak’s customizable connection systems, ranging from 1-pole to 40-pole designs, ensure seamless integration for PCB mounting, wire-to-wire, and wire-to-device assemblies. Manufactured using state-of-the-art injection molding and special-purpose machines, these systems uphold the highest standards of quality and reliability. Besmak produces a comprehensive range of stamped terminals for low- and high-voltage applications, featuring premium coatings such as gold and silver to enhance durability and meet the rigorous demands of critical automotive systems.
- Engineering Plastics:** Besmak’s expertise extends to insert-molded and over-molded components, essential for systems like sensors, actuators, and turbochargers. For EVs, Besmak plays a key role in developing socket chargers and other crucial components, underscoring its pivotal role in electric mobility.
- Tooling Excellence:** With the capability to design and produce molds weighing up to 5 tons for machines up to 500 tons, Besmak creates up to 100 molds annually. The company continuously enhances its tooling precision, improving from 5 microns to 2 microns and refining part tolerances from 40 microns to 20 microns, ensuring superior quality and accuracy in its manufacturing processes.

Leveraging advanced technologies such as Ansys for IT-based analysis and SAP-controlled production systems for real-time data, Besmak adheres to international standards, ensuring consistent quality across all its offerings.

A Legacy of Precision and Trust

Founded in 1987 as a tool development company, Besmak was incorporated as a Private Limited Company in 1994 under the visionary leadership of Mr. C.N. Hari, a technocrat with extensive expertise in product design and tooling. Initially focused on manufacturing components for automotive wiring harnesses for two- and four-wheelers, Besmak has evolved into a global player offering comprehensive solutions in connection systems, specialized engineering parts, and precision stampings for the automotive and EV markets.

From reducing emissions to enhancing vehicle connectivity and supporting the shift to electric mobility, Besmak has continually aligned itself with industry trends. Rooted in quality, innovation, and customer trust, Besmak delivers precision-engineered components, setting new benchmarks for excellence.

Distinctive Strengths of Besmak

Several factors distinguish Besmak as a leader in the automotive and EV sectors:

- Great Place to Work Certification:** Recognized as a “Great Place to Work” in 2024-2025, Besmak prides

itself on fostering a positive and inclusive workplace culture. This certification underscores its commitment to employee satisfaction and organizational excellence.

- **World-Class Infrastructure:** Besmak operates state-of-the-art facilities spanning over 125,000 sq. ft. across four plants in Chennai and Sanand, equipped with advanced injection molding machines, high-speed stamping machines, and integrated special-purpose machines (SPMs) for assembly and inspections. A centralized planning team oversees all processes, ensuring optimal efficiency.
- **Sustainability Initiatives:** With 90% of its electricity sourced from renewable energy, including rooftop solar panels and wind power, Besmak is significantly reducing its carbon footprint. Over the past three years, the company has planted more than 2,000 saplings, reaffirming its dedication to combating climate change. Robust water conservation initiatives further highlight Besmak's commitment to environmental responsibility, ensuring a greener future for all.
- **Quality and Certification:** Besmak is certified under IATF16949, reflecting its adherence to global quality standards. The company has also received supplier excellence awards from industry leaders like Bosch, Minda, and Yazaki, further cementing its reputation for excellence.
- **Customer-Centric Innovation:** Besmak maintains close partnerships with OEMs to design and develop solutions tailored to specific industry challenges, such as emission compliance and EV connectivity requirements.
- **High Production Capacity:** Producing over 60 million parts monthly, Besmak leverages SAP-based digital

systems to ensure seamless operations and robust traceability from supplier to customer delivery.

Advanced Facilities and Processes

At the core of Besmak's success is its world-class infrastructure and innovative processes:

- **Tool Room and Engineering Products:** Besmak's toolroom capabilities include the design and manufacture of high-speed stamping tools and injection molds, essential for producing automotive components with precision and reliability.
- **Production Excellence:** Besmak's facilities integrate cutting-edge automation and digital systems to manage production, assembly, and dispatch. The company employs SAP for traceability, ensuring every component meets strict quality standards.
- **New Product Development and Validation:** Besmak offers advanced engineering capabilities with a dedicated 10-member design team proficient in tools like Uni-Graphics, SolidWorks, and AutoCAD. Products are developed and validated in alignment with global standards such as DIN, JASO, and ISO, and undergo rigorous testing in an internal validation center to meet customer requirements.

Shaping the Future of Mobility

As vehicles become more connected and environmentally friendly, the demand for high-quality, precision-engineered components will rise. Besmak's commitment to new-generation products, continuous improvement, sustainability, and customer satisfaction makes it a preferred partner for automotive and EV manufacturers. With a legacy of trust and a vision for the future, Besmak is not just navigating the shift to electric mobility but leading it, setting new benchmarks for excellence in the automotive and EV sectors.





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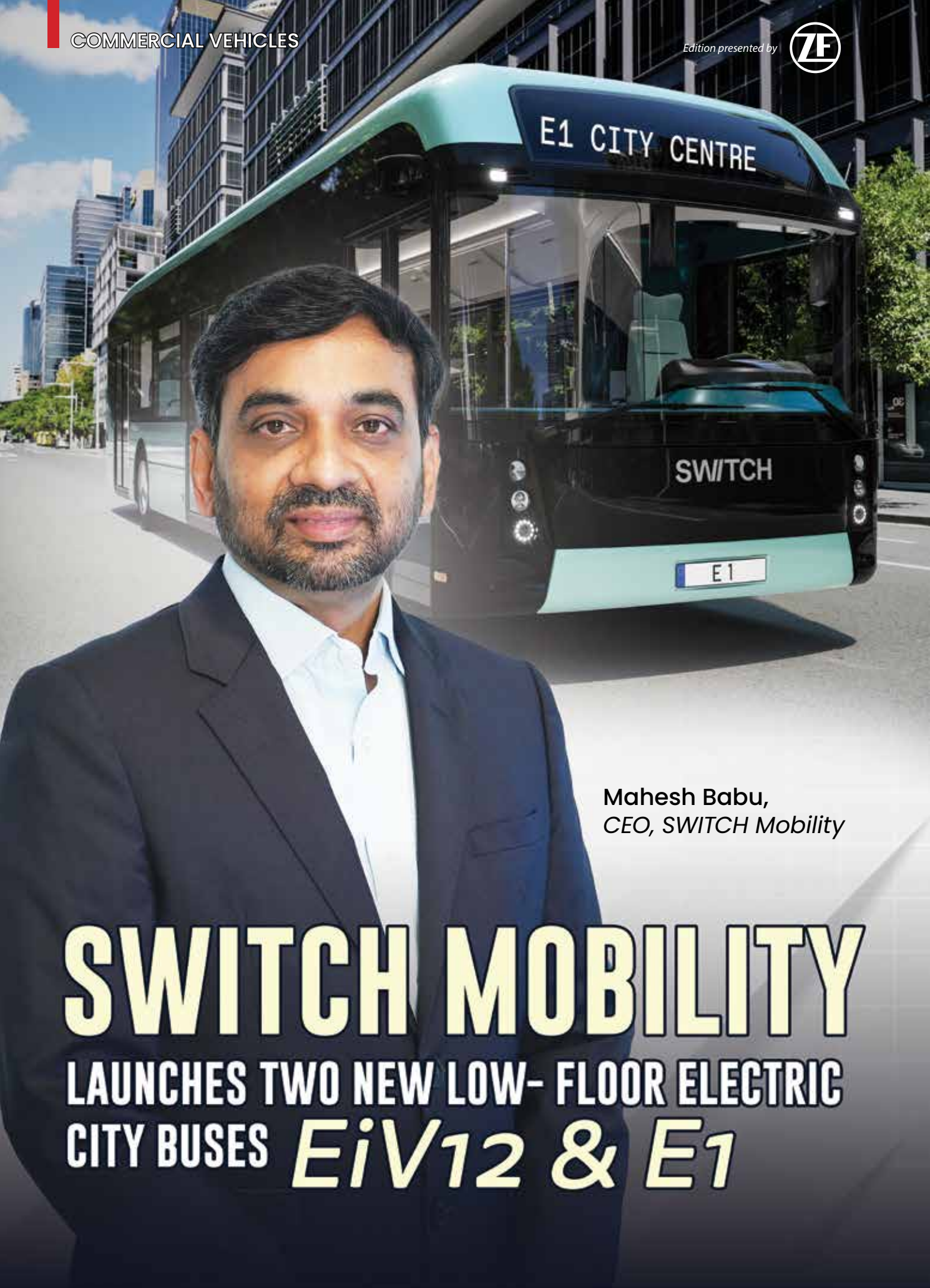
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WHEN THE
HEAT
IS ON, COUNT
ON US





Mahesh Babu,
CEO, SWITCH Mobility

SWITCH MOBILITY

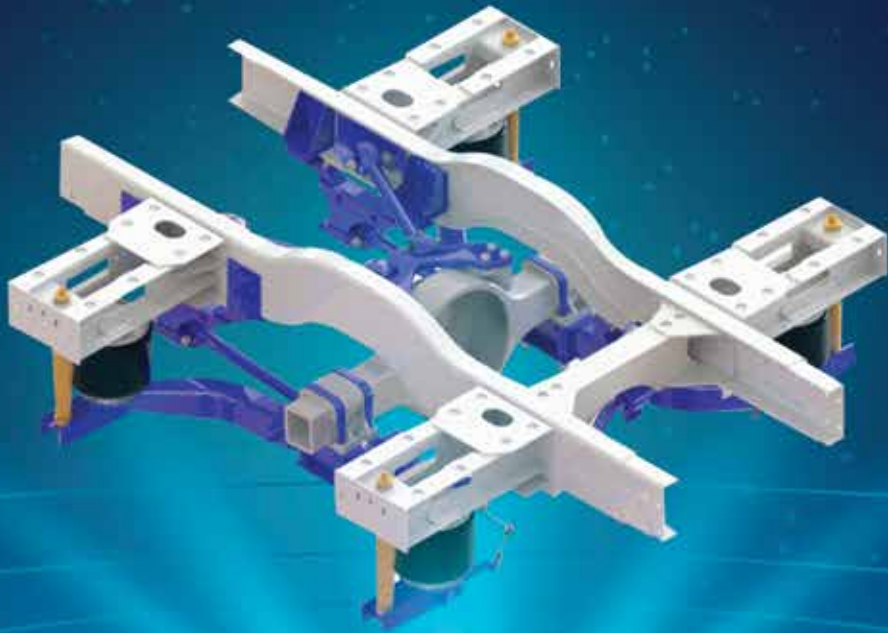
LAUNCHES TWO NEW LOW-FLOOR ELECTRIC
CITY BUSES *EiV12 & E1*



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SWITCH Mobility Ltd, subsidiary of Ashok Leyland and part of the Hinduja Group, and a leading manufacturer of electric buses and light commercial vehicles has unveiled its contemporary electric bus platform SWITCH EIV12 – the low floor electric city bus for the Indian market. It is India's First Low-Floor City Bus with Chassis-mounted batteries, featuring a scalable battery capacity of over 400+ kWh.

Mr Ashok P. Hinduja, Chairman of the Hinduja Group of Companies (India) observed while launching these vehicles "These buses are a tribute to the PM's Make in India vision: made in India, for India and the World. Switch Mobility is inspired to launch newer vehicles with cutting-edge technology and zero carbon emissions, only because of the wonderful road infrastructure that is coming up in India, owing to visionaries like Modi Ji and implementers like Gadkari Ji."

Mr. Dheeraj Hinduja, Chairman of SWITCH Mobility, said, "The launch of the SWITCH EIV12 and the flagging off of the SWITCH E1 for Spain is a proud milestone for the Hinduja Group and Ashok Leyland, underscoring our commitment

to sustainable mobility. In addition to the EIV12 and E1, SWITCH is developing a range of new products to expand our global offerings. At SWITCH Mobility, we are driving a greener future and advancing our long-term vision to democratize electric mobility worldwide."

Mr. Mahesh Babu, Chief Executive Officer, SWITCH Mobility, said, " At SWITCH Mobility, we're excited to unveil two new products for India and Europe, both built on our Global EV architecture. These innovations harness cutting-edge EV technology to deliver superior efficiency, safety, and passenger comfort. Our low-floor electric city bus, designed for optimal energy performance and accessibility, has garnered an overwhelming 1,800 orders—proof of the market's confidence in SWITCH Mobility's vision for a sustainable urban transport future."

The vehicle was launched by Shri Nitin Gadkari Hon'ble Minister for Minister of Road Transport and Highways of India, in the presence of Ashok P. Hinduja, Chairman of Hinduja Group Companies (India), other dignitaries, and industry leaders.

On the occasion, SWITCH E1, engineered for the European



Market, was flagged off virtually. Both these buses share common design philosophies and EV architecture.

The purpose-built SWITCH EIV12 platform is indigenously designed, developed and manufactured for urban city commutes, offering global standards in performance, safety, reliability, and comfort. With seating for up to 39 passengers, the SWITCH EIV12 leads its segment, offering maximum revenue potential for operators.

The India electric city bus market is expected to grow at a CAGR of 21% by 2030 with an EV penetration of 70%. The total parc for electric city buses is likely to cross 70,000 units by 2030.

The SWITCH EIV12 sets a new benchmark in passenger comfort, safety, and technology, reshaping the EV landscape. Its low-floor entry with a kneeling mechanism ensures easy ingress and egress, while the automated wheelchair ramp and dedicated spaces make it accessible for differently abled passengers. Designed with women's safety in mind, it is equipped with 5 CCTV cameras with no blind spots and includes 5 dedicated seats for women. The expansive panoramic glass area, the largest in its

segment, offers superior visibility, naturally lit interiors, and enhanced safety. Powered by SWITCH iON, our proprietary telematics system, the SWITCH EIV12 offers real-time vehicle health monitoring, ITMS and efficient fleet management. Its efficient rear-end dual-gun charging interface not only ensures rapid recharging but also optimizes depot spaces, while an IP67 rated battery lets the bus deal with flooded roads with ease.

The SWITCH EI, our latest innovation designed specifically for the European market, showcases cutting-edge engineering with a lightweight monocoque construction, ensuring optimal efficiency and performance. The SWITCH EI features in-wheel motors and a flat gangway layout throughout the bus, providing seamless movement and accessibility for passengers. With its triple-door configuration (front, center, and rear), the bus offers unmatched convenience for quick boarding and alighting, perfectly suited for urban transit systems. Capable of accommodating up to 93 passengers, including standees, the SWITCH EI sets a new benchmark in sustainable, passenger-centric public transportation.

BHARAT MOBILITY

Global Expo 2025

34 Vehicle OEMs,
800 Component Makers,
& 1,000 Brands
Set to Shine

The Ministry of Commerce and Industry has announced the 2nd edition of the Bharat Mobility Global Expo, scheduled from 17th to 22nd January 2025. This global mobility event, themed "Beyond Boundaries: Co-Creating the Future Automotive Value Chain," will unfold across three premier venues in Delhi NCR: Bharat Mandapam, New Delhi; Yashobhoomi, Dwarka, New Delhi; and India Expo Centre and Mart, Greater Noida.

With a massive footprint

of over 200,000 square meters, the expo will host more than 1,500 exhibitors, 5,000 global buyers, and over 500,000 visitors, cementing its status as one of the largest global platforms for mobility innovations. Featuring nine concurrent shows, specialized pavilions, and over 20 conferences, the event will focus on 16 core areas of the mobility value chain, reflecting the sector's diverse opportunities and future aspirations.

Curtain Raiser Highlights

At the Curtain Raiser

event held in Mumbai, Piyush Goyal, Minister of Commerce & Industry, praised the collaborative efforts of ministries, industry bodies, and the Engineering Export Promotion Council (EEPC). Unveiling the event brochure and film, Shri Goyal emphasized the expo's role in unifying the global mobility value chain and advancing India's vision for sustainable and connected mobility solutions. He urged participants to leverage India's growth story to attract investments,



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expand trade, and accelerate the adoption of electric vehicles (EVs).

Jitin Prasada, Minister of State for Commerce and Industry, also graced the event, underscoring the expo's significance in showcasing India's engineering excellence and innovative potential.

A Glimpse into Bharat Mobility Global Expo 2025

The expo celebrates India's emergence as a global mobility hub, aligning with Prime Minister Narendra Modi's 7Cs Mobility Vision. This landmark event will showcase cutting-edge advancements in automotive technologies, sustainable solutions, and transformative infrastructure innovations.

The grand exhibition will spotlight:

- Auto Expo – The Motor Show: Featuring advancements in multi-powertrain vehicles.
- Auto Expo – Components Show: Highlighting innovations for OEMs and the aftermarket.
- Mobility Tech Pavilion: Focused on connected, autonomous, and infotainment systems.
- Urban Mobility and Infrastructure Show: Exploring sustainable public transport and drone technologies.
- Specialized Pavilions: Covering EV infrastructure, hydrogen technologies, battery advancements, construction equipment, steel, tyres, and cycles.

Global industry leaders, including

HERE'S A LIST OF THE MOST INTERESTING NUMBERS FROM THE BHARAT MOBILITY GLOBAL EXPO 2025 CONTENT:

BHARAT MOBILITY GLOBAL EXPO 2025 – KEY NUMBERS:

- 6 DAYS**
- EXHIBITORS 1,500**
- 200,000+ SQ M TOTAL AREA**
- EXPECTED VISITORS 500,000**
- 5,000 GLOBAL BUYERS**
- 34 VEHICLE MANUFACTURERS**
- 800+ AUTO COMPONENT MANUFACTURERS**
- COUNTRY PAVILIONS (GERMANY, THE UK, SOUTH KOREA, JAPAN) 4**
- 9 CONCURRENT SHOWS**
- CONFERENCES 20+**

Ather Energy, Ola Electric, Vayve Mobility, Eka Mobility, and VinFast, will showcase groundbreaking EV solutions. Additionally, 34 prominent vehicle manufacturers will unveil new models and electric, hybrid, CNG, and biofuel-powered vehicles. The event will also host over 800 auto component manufacturers and 1,000 brands from 13 global markets, with dedicated country pavilions from Germany, the UK, South Korea, Japan, and other nations.

Pankaj Chadha, Chairperson of EEPIC India, remarked: "The Bharat Mobility Expo 2025 exemplifies India's dedication to innovation and excellence in the mobility sector. This event will not only highlight the latest advancements but also promote collaboration and growth within the industry. We are honored to unite such a diverse group of stakeholders to co-create the future of mobility."

Piyush Goyal added "Bharat Mobility Expo reflects India's vision for a connected and integrated world. Scaling EV production will enhance cost-effectiveness and global competitiveness. This event is a showcase of India's ambition and engineering prowess in mobility."

A Collaborative Endeavour

Organized by EEPIC India, the Bharat Mobility Global Expo 2025 is spearheaded by the Ministry of Commerce and Industry in collaboration with 15 ministries, state governments, and 11+ apex industry associations such as SIAM, ACMA, and NASSCOM, with PwC India as the knowledge partner.



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(From left) Sabari Manohar, VP, Sales-Service-Used Car Business; Masakazu Yoshimura, MD & CEO; Manasi Tata, Vice Chairperson, Toyota Kirloskar Motor; and Tadashi Asazuma, Deputy MD, Sales-Service-Used Car, Toyota Kirloskar Motor & Lexus, at the unveil of the All-New Camry

TOYOTA UNVEILS ALL-NEW CAMRY HYBRID ELECTRIC VEHICLE

Toyota Kirloskar Motor has unveiled the All-New Camry hybrid electric vehicle, designed to be a "Sedan to the Core". Reiterating its commitment towards realising the carbon neutral goals, the All-New Camry Hybrid Electric Vehicle is equipped with advanced 5th generation hybrid technology, delivering significantly improved efficiency and enhanced performance. This new model brings unmatched sophistication with cutting-edge safety features, elevated exteriors and interiors, seamless technology integration, thereby deliver the unique aspirations of the consumers. The All-New Camry Hybrid Electric Vehicle is more than a car – it's a reflection of refined style

and exclusiveness.

Bold Innovation with Hybrid Powertrain: Embracing clean vehicle technology, at the heart of the All-New Camry Hybrid Electric Vehicle is the powerful yet efficient 2.5L Dynamic Force Engine, delivering 221 Nm of torque at 3200 rpm. Paired with an electronically controlled continuously variable transmission (e-CVT), the vehicle ensures a smooth and dynamic driving experience. The e-CVT offers multiple driving modes—Sport, Eco, and Normal—to suit all driving styles and conditions. Additionally, Toyota's 5th Generation Hybrid Technology System, features a high-capacity Li-ion battery that

propels the All-New Camry Hybrid Electric Vehicle output to an impressive total maximum power of 169kW (230 PS). This sophisticated Hybrid System combines performance with exceptional fuel economy of 25.49 km/l*, making it the perfect choice for the environmentally conscious, luxury sedan enthusiast.

Speaking on the launch of new model, Mr. Masakazu Yoshimura – Chairman, Managing Director and Chief Executive Officer of Toyota Kirloskar Motor, said, "The Launch of All-New Camry Hybrid Electric Vehicle is a testament to our vision of developing ever-better, sustainable mobility options in line with the Toyota's



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Global Environmental Challenge 2050. India remains a crucial market, and our product strategy aligns with India's national priorities to lower the carbon emissions and achieve energy security goals. Towards this, we have embraced the adoption of multiple-pathway approach to drive clean mobility and promote mass electrification with greater agility and speed. The introduction of the All-New Camry Hybrid Electric Vehicle being a green mobility offering, will continue to further strengthens our contributions toward building a futuristic carbon-free, happy society".

Expressing his views, Mr. Tadashi Asazuma, Deputy Managing Director, Sales-Service-Used Car, Toyota Kirloskar Motor & Lexus, stated, "The all-new Camry exemplifies our

unwavering commitment to crafting vehicles that blend performance, sustainability, and cutting-edge innovation. Developed under the concept of 'Sedan to the Core', the All-new Camry delivers an unmatched driving experience thanks to its advanced 5th generation hybrid system, offering enhanced performance and exceptional responsiveness.

I believe that our new offering will bring the pride of ownership with its sporty design, tech-loaded features and advanced safety systems offering peace of mind to our customers thus reinforcing our vision to offer mobility that is both aspirational and responsible for the Indian market."

Commenting on the launch, Mr. Sabari Manohar - Vice President, Sales-

Service-Used Car Business, Toyota Kirloskar Motor said, "The launch of the All-New Camry Hybrid Electric Vehicle is an exciting milestone for us in India. This new model with its 5th Gen Hybrid Technology, striking design, and luxurious specs, is crafted for those who seek contemporary elements - sleek, spacious, safe & seamless driving experience. Equipped with Toyota Safety Sense 3.0 and a suite of connectivity features, it offers our valued customers not just elevated style, but also peace of mind, comfort and convenience at every turn. We sincerely thank our customers for their trust in the brand and appreciation for our sustainable mobility offerings that gave us the confidence to introduce this new and advanced model, aimed at fulfilling their eco-friendly vehicle choices".

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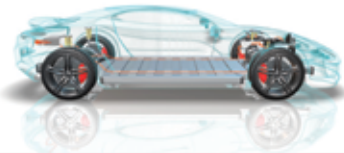
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Future-Proofing Mobility: BORGWARNER'S

Adaptive Strategy for a Changing Industry

*Dr. Paul Farrell,
Executive VP & Chief Strategy
Officer, BorgWarner*

*Joseph F. Fadool,
President & General Manager
of Emissions, Thermal, and
Turbo Systems, BorgWarner*

At IAA Transportation 2024, BorgWarner solidified its reputation as a leader in the powertrain sector by showcasing a robust portfolio of products and solutions designed to meet the evolving needs of the commercial vehicle industry. With over 130 years of expertise, the company emphasized its dual focus on

traditional powertrains and electrification. In exclusive conversations, Joseph F. Fadool, President & General Manager of Emissions, Thermal, and Turbo Systems, and Dr. Paul Farrell, Executive VP & Chief Strategy Officer, shared insights into BorgWarner's strategy, market challenges, and vision for a sustainable future.

Comprehensive Portfolio for Powertrain Transition

BorgWarner's display at IAA featured innovative technologies like the LFP battery pack and a 360-kilowatt integrated charger, alongside foundational products such as turbochargers, exhaust gas management systems, and high-voltage electric fans. Dr. Farrell explained, "We offer a full suite of products for the commercial vehicle space, catering to combustion, hybrid, and fully electrified powertrains. Our portfolio is resilient to the pace of industry change."

This adaptability is central to BorgWarner's strategy. The company has leveraged its expertise in passenger car electrification to scale solutions for commercial and off-highway vehicles. "Regional markets are transitioning at different rates, and we're ready to adapt accordingly," added Fadool.

Strategic Positioning and Global Leadership

BorgWarner's commitment to electrification has been a multi-year effort, with significant investments in technology and capacity. "We've spent the last seven to eight years repositioning the company to serve both traditional and alternative fuel systems, including hydrogen combustion and LNG, while also addressing electrification," said Fadool.

Highlighting regional dynamics, Dr. Farrell emphasized China's leading role in electrification. "China is the single largest auto market globally, and it's pushing boundaries with high-quality products and rapid evolution. Our strong presence there enables us to support their journey," he noted.

India also plays a pivotal role in BorgWarner's growth strategy. With six facilities and a newly established engineering center in Bangalore, the company is investing heavily in the region. "India offers immense opportunities, and we expect high single-digit growth there over the next decade," shared Fadool.

Meeting Market Challenges with Resilience

Navigating industry challenges such as regulatory uncertainties and sustainability goals requires strategic foresight. "Businesses thrive on stability, and clear, consistent regulations are crucial for making long-term



investments," explained Fadool.

The pace of transition and the variety of emerging technologies add another layer of complexity. "Our broad portfolio allows us to respond flexibly to market changes, regardless of how fast or slow the transition unfolds," said Farrell.

The company's customer-centric approach sets it apart. "We engage deeply with all major OEMs globally, understanding their challenges and developing high-quality, reliable products that meet their expectations," emphasized Fadool.

Staying Focused on Core Expertise

BorgWarner remains steadfast in its commitment to propulsion systems, seeing significant growth potential within its current domain. "Content per vehicle increases dramatically with electrified powertrains, offering substantial opportunities," stated Fadool.

Farrell reinforced this focus: "BorgWarner is, at its core, a propulsion company. There's plenty to keep us busy as we drive the electrification transition."

Outlook for the Future

Looking ahead, BorgWarner is optimistic about continued growth. "This year is unfolding as expected, with strong combustion sales and a steady ramp-up in electrification," shared Fadool.

With its strategic investments and customer-centric ethos, BorgWarner is well-positioned to lead the global powertrain transition. "As the industry progresses towards a sustainable future, our portfolio and adaptability ensure we remain a valuable partner for OEMs worldwide," concluded Farrell.

UltraTech to deploy 100 more EV trucks in its logistics operations



UltraTech Cement Limited, India's largest cement and ready-mix concrete company, has announced that it is scaling up the use of Electric Vehicles (EV trucks) for movement of material and products in its logistics operations. The Company has signed a new transport service contract for deployment of about 100 electric vehicles (EV Trucks) for the transportation of 75,000 MT of clinker per month from its integrated cement manufacturing unit Dhar Cement Works, located in Madhya Pradesh, to its grinding unit Dhule Cement Works, located in Maharashtra, which is about 400 kms distance for a roundtrip.

Mr. K C Jhanwar, Managing Director, UltraTech Cement Limited, said, "UltraTech is fully committed to realising its Net Zero goal by 2050.

We have taken a holistic approach to integrating sustainability in our business conduct. The scale up of EV trucks in our logistics operations underscores our commitment to drive the implementation of sustainable practices in the industry."

UltraTech is the first cement company in India to deploy electric trucks at this scale for such a long lead distance. The transportation of clinker using these electric trucks in place of fossil-fuel based trucks is estimated to help reduce transport emissions by 17,000 MT of CO₂ annually.

The scale up follows the successful pilot that commenced in January 2024, wherein UltraTech introduced five electric trucks for transport of clinker on this route. The pilot also included deployment of the charging infrastructure as well as imparting

intensive training to the truck drivers. UltraTech is also evaluating additional routes for deployment of more EV trucks in its logistics operations. UltraTech proposes to conduct another pilot using a similar model for transport of clinker between two other manufacturing units of the Company.

UltraTech aims to deploy 500 electric trucks by June 2025 as part of the Government of India's eFAST initiative. It is among the first cement companies in India to introduce 'Green Logistics' in the form of CNG vehicles in 2021, LNG vehicles in 2022, and Electric Trucks in 2024. Through concerted efforts with logistics partners, the Company currently has more than 468 CNG trucks and 67 LNG trucks operational for transport of products and material across several of its manufacturing units.

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ATHER ENERGY INTRODUCES THE 2025 ATHER 450

Ather Energy has introduced the 2025 Ather 450 with a host of new updates. The 450X and 450 Apex scooters now get Multi-Mode Traction Control with three different modes for increased safety and MagicTwist™ for a more convenient riding experience in city traffic.

Ravneet S Phokela, Chief Business Officer, Ather Energy said, "Ravneet S Phokela, Chief Business Officer, Ather Energy said, "The Ather 450 has been designed with performance at its core. Over the years we have been focusing on improving performance of the 450 product lineup even further through continuous improvements in both software and hardware. Now, with the 2025 Ather 450, we are improving the safety of the scooters with features like multi-mode traction control which is typically found in high end motorcycles. This feature allows the rider to

adapt to different road conditions with better control and stability. We are also introducing MagicTwist™ on the 450X after introducing it on the 450 Apex and the Rizta. We expect that these latest updates will offer a much improved riding experience to scooter enthusiasts across the country".

The 2025 Ather 450X and Ather 450 Apex models come equipped with multi-mode traction control, a feature designed to enhance rider safety by preventing the scooter from slipping on low-friction surfaces. The traction control system steps in under slippery conditions to synchronize the rear wheel speed with the front, ensuring better stability. Riders can select from three distinct modes – Rain Mode, Road Mode and Rally Mode – to suit their control needs, each fine-tuned for specific riding scenarios. The



Rain Mode prioritizes maximum safety, reducing slip for enhanced grip on wet & slippery surfaces. The Road Mode strikes a balance between safety and performance, ideal for everyday riding. The Rally Mode is designed for off-road enthusiasts, offering controlled slip. This feature not only enhances rider safety but also unlocks performance potential, providing the confidence and control to extract the best out of the scooter in any condition.

To further improve the riding experience, Ather has focused on maximizing range and has introduced multi-compound tyres developed with MRF on the 2025 Ather 450. Additionally, the optimization of energy usage through features like Magic Twist™, which reduces energy loss friction while braking enhances overall range. The result is an improved TrueRange™ of up to 130 km on the Ather 450X 3.7kWh (IDC Range 161 kms) and the 450 Apex (IDC Range 157 kms). The 450X 2.9 kWh (IDC Range 126 kms) and the Ather 450S (IDC Range 122 kms) will also now deliver an improved TrueRange™ of upto 105 kms.

MagicTwist™, a feature which was earlier launched with

the 450 Apex and then Rizta Z will now also be available on the 2025 450X. MagicTwist™ is designed to enhance rider convenience and control by allowing the rider to modulate vehicle deceleration through throttle alone. The MagicTwist™ throttle enables the rider to twist to accelerate and twist in the reverse direction to modulate deceleration at all charge levels. It is an evolution of conventional regenerative braking that is actually able to bring the scooter to a complete halt and works even at 100% battery charge.

The 2025 Ather 450 will be powered by AtherStack™ 6, the latest version of Ather's software engine, which has a host of features such as – Google Maps, Alexa, WhatsApp notification on the dashboard, which allows the rider to access messages without having to take out their smartphones; "Ping My Scooter", so the rider can easily locate their scooters in a sea of vehicles with the help of sound and visual cues and Live location sharing, which allows riders to share their live location with a preset contact while they're on the move.

Shriram Pistons & Rings to acquire 100% shareholding in TGPEL Precision Engineering



Krishnakumar Srinivasan, MD & CEO, SPRL (third from left) and his colleagues with the TGPEL senior management

Shriram Pistons & Rings Limited ("SPRL"), one of India's most recognised auto component manufacturing company, has announced to acquire 100% shareholding in TGPEL Precision Engineering Limited formerly known as Timex Group Precision Engineering Limited ("TGPEL") through its wholly owned subsidiary, SPR Engenious Limited ("SEL"). This deal will mark one more step towards SPRL's focus to consolidate and strengthen its position into the manufacturing of the high precision injection moulded components. Proposed acquisition is part of SPRL's overall long term strategy to invest, diversify and grow its product portfolio in the areas agnostic to ICE Powertrain, thereby

cementing its leadership position in the automotive sector.

Commenting on the proposed investment, Krishnakumar Srinivasan, MD & CEO SPRL said, "With this strategic investment, SPRL aims to consolidate its product portfolio beyond the current pistons, rings, engine valves, Electric powertrain and precision plastic injection moulded parts. With its state of the art mould development facility and set up for manufacturing of high precision injection moulded parts, TGPEL will be able to service the domestic and global customers requiring precision moulded parts for automotive & other industrial applications. TGPEL

has expertise to develop complex parts for various applications. By integrating SPRL's manufacturing & engineering capabilities and strong reach with large customer base, there is scope for lot of synergies which will help TGPEL to offer wider range of products and services to the growing Indian automotive market. This deal will only strengthen SPRL's presence in the high precision plastic injection moulding business thereby ultimately benefitting our customers while creating long term value for all our stakeholders."

Mr. Krishnakumar added "this acquisition combines strong, technology-led manufacturing teams,



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Battery

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The SPRL and TGPEL teams posing for a group photograph

allied in their pursuit of excellence to deliver world class manufacturing and moulding technology, which will enhance relationships with existing customers while creating additional opportunities for growth and expansion.”

TGPEL is a leading precision mould making and injection moulded parts’ manufacturing company with wide range of products in automotive space. TGPEL is also present in Electrical, Consumer Goods and Medical segments in India and abroad.

The enterprise value of TGPEL for the proposed deal is Rs. 2200 Million on Debt Free Cash Free basis and is subject to adjustments, if any, as defined in the Share Purchase agreement at the time of closing of the deal. Transaction is expected to be completed by end of Dec. 2024.

Established in 2008, TGPEL has state of the art two manufacturing facilities located in Noida, Uttar Pradesh. TGPEL has been growing consistently

year on year with its presence in diverse industries. TGPEL’s healthy financial parameters are expected to be value accretive to SPRL’s overall consolidated financials.

TGPEL is well equipped with design and development of high technology precision moulds, in-house tool manufacturing and manufacturing of high precision injection moulding components. The Company primarily supplies injection moulded products and moulds to OEMs and other automotive companies.

The acquisition is subject to customary approvals and conditions.

Recently, SPRL had already completed two deals – one acquisition of majority stake in SPR EMF Innovations Private Limited, manufacturers of Electric Vehicle Motors & Controllers based at Coimbatore, Tamil Nadu and second acquisition of majority stake in SPR Takahata Precision India Private Limited, having its manufacturing facility at Neemrana, Rajasthan.

SPR Takahata is in to design and development of high technology precision moulds, automated assemblies, manufacturing of high precision injection moulded components.

“
Our consistent efforts to introduce cutting-edge products and technologies, coupled with emphasis on local manufacturing, exemplifies the company’s strong support for the Make in India initiative
”

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India contact

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arvind@arneco.in

The Road to Net Zero

Highlights from UITP India's E-Bus Seminar



(From left) Ismael Uruen Pueyo, Economic and Financial Director, Transports Metropolitans de Barcelona (TMB), Spain; K. Phanindra Reddy, IAS, Additional Chief Secretary, Transport Department, Govt. of Tamil Nadu; Rakesh Jain, CEO, Delhi Integrated Multi-modal Transit System Limited; Jaspal Singh, Senior Director – Membership & Global Operations, UITP; and Rupa Nandy, Head, UITP India

The UITP India International Bus Seminar 2024, themed “Advancing Electric Buses in India”, showcased India’s commitment to sustainable transportation and the goal of achieving Net Zero by 2070. Organized with the support of NITI Aayog, the Ministry of Road Transport and Highways (MoRTH), and the Association of State Road Transport Undertakings (ASRTU), the seminar brought together over 100 participants from six countries and 23 expert speakers, offering a wealth of insights on the latest trends and best practices in the electric bus sector.

The two-day seminar, held at the India Habitat Centre in New Delhi on November 21-22, 2024, featured high-level plenary sessions, technical discussions, and a technical visit, creating a robust platform for knowledge-sharing and networking.

Keynote Sessions and Expert Panels

The seminar opened with a welcome address by Jaspal Singh, Senior Director of Membership and Global Operations, UITP. K. Phanindra Reddy,

IAS, Additional Chief Secretary, Transport Department, Government of Tamil Nadu, set the tone with his introductory remarks. Rakesh Jain, CEO of Delhi Integrated Multi-Modal Transit System Ltd. (DIMTS), and Ismael Uruén Pueyo, Economic and Financial Director, Transports Metropolitans de Barcelona (TMB), delivered the inaugural remarks, emphasizing the importance of sustainable e-bus adoption.

The plenary session, “Sustainable E-Bus Adoption: FAME, PM-eBus Sewa Scheme, PM E-DRIVE Scheme, Bharat Urban Megabus Mission, and Beyond,” was a standout

highlight. Moderated by Swati Khanna, Senior Sector Specialist at KfW, the panel included K. Phanindra Reddy; Ismael Uruén Pueyo; Rajneesh Rana, Head of Convergence at Convergence Energy Services Limited; Nishant Arya, Vice Chairman and Managing Director of JBM Group; and Gaurav Joshi, Deputy Secretary, Ministry of Heavy Industries. The session explored regulatory frameworks, policies, and their implications for domestic and foreign investments in the electric bus sector.

Technical Sessions: Insights and Innovations

The seminar featured three

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Delivering your potential



technical sessions that delved into critical aspects of electric bus deployment:

1. Sustainable Digitalization for Electric Buses

This session, moderated by Anupama Saha, Assistant General Manager at DIMTS, discussed the role of digitalization in enhancing passenger experience. Topics included ITMS, NCMC, and data-driven approaches. Panelists included Dr. Manjit Kaur Sooch, Director of Innovation and Technology at AC Transit, and industry leaders from BEST, VDV, and UITP, who shared strategies to integrate technology into public transport systems effectively.

2. Enhancing Electric Bus Efficiency through Sustainable Operations and Planning

Jaspal Singh led this session, joined by experts such as Ajay Srivastava of DIMTS, Mahak Dawra of GIZ India, and Bhanu Prasad of TSRTC.

The discussion centered on route planning, scheduling, and strategies to optimize electric bus operations and maintenance.

3. Addressing Range Anxiety through Adequate Charging Infrastructure

Moderated by Hilia Boris Iglesia, Head of Service and Excellence at UITP, this session highlighted the importance of strategically planned charging infrastructure to mitigate range anxiety. Panelists included Ferdinand Burgersdijk, CEO of FRCV B.V.; Krishna Desai of GIZ India; and Khushboo Shrivastava, CEO of Coulomb AI, who offered solutions to enhance energy efficiency and operational reliability.

Technical Visit to Rajghat-2 Electric Bus Depot

The second day offered participants hands-on exposure to electric bus operations with a visit to the Rajghat-2 Depot of the Delhi Transport Corporation. Housing 71 AC electric buses manufactured by JBM Group,

the depot features 15 chargers, achieving a bus-to-charger ratio of 5:1. Participants gained insights into depot design, charging infrastructure, battery features, and driver training programs, offering a practical understanding of managing electric buses at scale.

Collaborating for a Greener Future

The seminar concluded with a call to action for advancing electric buses, underscoring the transformative potential of this sector in reshaping India's mobility landscape. Vibrant networking sessions facilitated knowledge exchange among participants, fostering collaboration between national and international stakeholders.

As a next step, UITP India announced a Capacity Building Programme for State Transport Undertakings (STUs) and Public Transport Authorities of India under the "Advancing Electric Buses in India" project, scheduled for March 6-7, 2025.



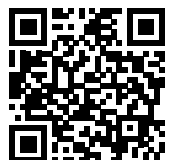
The seminar delegation during a visit to Rajghat-2 Depot of the Delhi Transport Corporation



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TATA MOTORS

bags another BMTC order for 148 e-buses

Tata Motors has secured an additional order for 148 electric buses from Bengaluru Metropolitan Transport Corporation (BMTC). TML Smart City Mobility Solutions Ltd., Tata Motors' wholly owned subsidiary will be responsible for the supply, operation and maintenance of the Tata Starbus EV 12-metre low-floor electric buses for a 12-year period. This order follows an earlier order of 921 electric buses, most of which have been delivered, and are running successfully with an uptime of over 95% by BMTC.

Tata Starbus EV boasts of superior design and best-in-class features, for a sustainable and comfortable commuting experience. These zero-emission electric buses are developed on next-gen architecture, powered by advanced battery systems for

safe, comfortable and convenient intra-city commute across the city of Bengaluru.

Commenting on the announcement, Ramachandran R., IAS, MD, BMTC, said, "We are happy to further strengthen our partnership with Tata Motors with these additional 148 electric buses for our fleet modernisation. The performance of the existing Tata electric buses has been exceptional, aligning perfectly with our commitment to sustainable and efficient public transportation. The larger e-bus fleet will significantly enhance our capacity to provide eco-friendly, comfortable and reliable services to the citizens of Bengaluru."

Asim Kumar Mukhopadhyay, CEO and MD, TML Smart City Mobility Solutions Limited, stated, "We are honoured by BMTC's continued trust in our

e-mobility solutions. This additional order of 148 buses is a testament to the proven success of our Starbus EVs and the operational excellence delivered in Bengaluru's urban environment. We remain committed to delivering innovative solutions that benefit both the community and the environment."

Till date, Tata Motors' e-buses have cumulatively clocked more than 2.5 crore kilometres in Bengaluru alone. This has contributed to a significant reduction in tailpipe emissions, achieving a decrease of approximately 14,000t CO2. The success of Tata Motors electric buses in Bengaluru serves as a testament to the company's dedication to innovation, sustainability, and improving urban life through advanced mobility solutions.



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Tata Power & Tivolt partner to strengthen EV Charging Infrastructure for CVs across India

Tivolt Electric Vehicles Private Limited (Tivolt), an EV venture of Murugappa Group and a subsidiary of TI Clean Mobility has signed a Memorandum of Understanding (MOU) with Tata Power Renewable Energy Limited (TPREL), a leading player in the Indian renewable energy sector and a prominent EV Charging solutions provider, to enhance e-mobility for commercial vehicles across the country. This partnership aims to build a robust EV Charging ecosystem by leveraging Tata Power's expertise in diversified EV Charging solutions with Tivolt's rapidly growing network of small electric commercial vehicles across the country.

The MoU was signed by Mr. Saju Nair, CEO, Tivolt Electric Vehicles and Mr. Virendra Goyal, Head BD EV charging, TPREL, in the presence of Mr. Shivram Bikkina, Chief -Solar Rooftop & EV charging business, TPREL.

TPREL will bring its extensive experience in setting up and managing an expansive EV Charging infrastructure across the country to Tivolt dealerships, customer locations, and high-traffic public spaces. By deploying these strategically located EV Chargers, TPREL will empower commercial EV owners with reliable and highly accessible charging.

With a focus on easy charging solutions for small electric commercial vehicles, TPREL has previously partnered with other OEMs for providing 200+ customised EV Charging stations to customers in over 100 cities, including Mumbai, Delhi, Chennai, Bengaluru, Kolkata, Pune and Kochi.

Taking this initiative, a step further, TPREL will also explore the integration of solar energy systems to power Tivolt dealerships and customer locations. This innovative approach not only reduces the carbon footprint but also lowers the cost of charging for consumers, making the shift to electric vehicles more affordable and sustainable. This aligns with



our broader commitment to driving India's transition to a cleaner energy future through renewable solutions.

Commenting on the MoU, Mr. Deepesh Nanda, CEO & Managing Director, TPREL said, "Through our partnership with Tivolt, we are enhancing our EV charging network to empower the small and commercial vehicle segment—key drivers of India's economy as they ensure seamless last-mile deliveries and efficient transportation. A robust and well-integrated EV ecosystem will accelerate the adoption of commercial EVs thereby propelling India's energy transition and paving the way for a more sustainable future."

Mr. Saju Nair, CEO, Tivolt Electric Vehicles said, "We are excited to partner with Tata Power. This will be a key enabler in the Electric Adoption journey and the strategic partnership will accelerate the development of EV charging infrastructure. This MoU is a significant step towards empowering the EV ecosystem for e trucks with robust, accessible charging solutions, ensuring that clean and sustainable mobility becomes a reality for our customers."

Edition presented by



Mahindra BE 6



MAHINDRA
SET TO UNLIMIT
PERFORMANCE
WITH BE 6 &
XEV 9E





The senior leadership team of Mahindra at the launch of the new electric SUVs



Mahindra is rewriting the rules of electric mobility with the launch of its flagship Electric Origin SUVs, the BE 6 and XEV 9e. They are built on a grounds-up revolutionary electric origin architecture INGLO and are powered by MAIA, the fastest automotive mind in the world. These vehicles embody Mahindra's vision of "Unlimit India"—an era where Indian innovation and design not only challenge global benchmarks but set new ones. The introductory prices* of BE 6 and XEV 9e were announced at the Global Premiere held in Chennai.

Building a lifestyle brand

Mahindra's brand strategy is built on the commitment of creating vehicles that resonate deeply with those who seek experiences that align with their aspirations and unlimit their potential. The BE 6, with its sporty, performance-driven appeal, is crafted for explorers and achievers who love pushing boundaries, embodying the thrill of adventure and precision. The XEV

9e, on the other hand, redefines indulgence, offering unparalleled luxury with refined elegance.

With class-leading range, intelligent ride dynamics, cutting-edge safety features, and a cinematic in-cabin experience, these Electric Origin SUVs are not just vehicles—they are expressions of a bold, authentic lifestyle.

Heartcore Design

Mahindra's Electric Origin SUVs embody the Heartcore Design philosophy, crafting an emotional bond with their owners through bold innovation and modern luxury. With commanding exteriors and thoughtfully curated interiors, the BE 6 and XEV 9e set new benchmarks in aesthetics and functionality. The BE 6 flaunts edgy, athletic silhouette and race-inspired agility, whereas the XEV 9e exudes sophistication with its suave SUV coupe design, blending indulgent luxury with dynamic

performance.

Veejay Nakra, President – Automotive Sector, Mahindra & Mahindra Ltd. and Joint Managing Director, Mahindra Electric Automobile Limited, said, "The insight that inspired our brand idea is rooted in the most powerful human emotion – Love, which is eternal, inspires our deepest choices and defines who we are. Our electric origin SUVs, BE 6 and XEV 9e are about Unlimit Love that will inspire our customers to live a life without limits, filled with experiences that will make them feel alive. Crafted for unmissable presence, unparalleled technology and unrivalled performance, our electric origin SUVs will set new global benchmarks. The BE 6, with its edgy, athletic silhouette and race-inspired agility, is designed for those who thrive on performance and adrenaline while the XEV 9e exudes sophistication with its suave SUV coupe design, seamlessly blending indulgent luxury with dynamic performance."

ORIGIN
Vs
Mahindra



R Velusamy, President – Automotive Product Development, Mahindra & Mahindra Ltd. and Joint Managing Director, Mahindra Electric Automobile Limited, said, “The BE 6 and XEV 9e are the next Indian icons that will be world beaters. The difference between a vehicle that is made-electric and these two Born Electric SUVs is that one you have seen before, and the other one is unlike anything you have seen before. One just about matches industry standards of performance while one sets a new standard for performance in the industry. One has tech that will soon be history, while one has tech that will make everything history. These two products built on our grounds up revolutionary electric origin architecture INGLO and powered by MAIA, the fastest automotive mind in the world embody Mahindra’s vision of Unlimit India, setting new global benchmarks.”

INGLO Electric Origin Architecture

- Certified Range of 682 km (MIDC

P1+P2) for BE 6 and 656 km (MIDC P1 + P2) for XEV 9e with 79 kWh advanced LFP battery pack

- Lifetime battery warranty for both 79 kWh and 59 kWh battery packs. Valid for first registered owners only and applicable only on private registration. In case of ownership change, warranty on high voltage battery will be 10 years or 200,000 km, whichever is earlier from the first ever date of delivery of the vehicle. Full Details will be available at time of booking.
- 3-in-1 integrated powertrain delivering up to 210 kW power
- Acceleration of 0-100 km/h in 6.7 s for BE 6 and 6.8 s for XEV 9e
- Fast charging: 20-80% in under 20 min (with 175 kW fast charger)
- i-Link front suspension, 5 link rear independent suspension with Intelligent semi-active dampers

- Brake-by-wire technology with Integrated electronic booster (IEB)
- High Power Steering with Variable Gear Ratio (VGR) that enables tight TCD of 10 m

MAIA: Mahindra Artificial Intelligence Architecture, the most powerful mind in the automotive world

- Software Defined Vehicle: Built on next-gen domain architecture with ethernet backbone
- 220 k DMIPS, 51 TOPS with over 80 bn+ transistors and 130+ Million lines of code.
- Qualcomm Snapdragon 8295 – fastest chipset in automotive grade
- 24 GB RAM, 128 GB storage, and an ultra-fast 6th generation Adreno GPU for cockpit domain
- Wi-Fi 6.0, Bluetooth 5.2, and Quectel 5G enabling connectivity and real-time updates



- ADAS L2+ with Mobileye EyeQTM6 chip with 2 GB RAM & 8 MP camera
- 60+ apps for music, entertainment, OTT movies, podcast, shopping and productivity
- Over-the-air updates ensure the BE 6 and XEV 9e evolve and stay ahead of the curve
- Multi-Drive Modes: Range, Everyday and Race
- ADAS Level 2+: Equipped with 5 radars and 1 vision camera with ability to detect animal, pedestrian, barricades and different types of vehicles

Hero Features

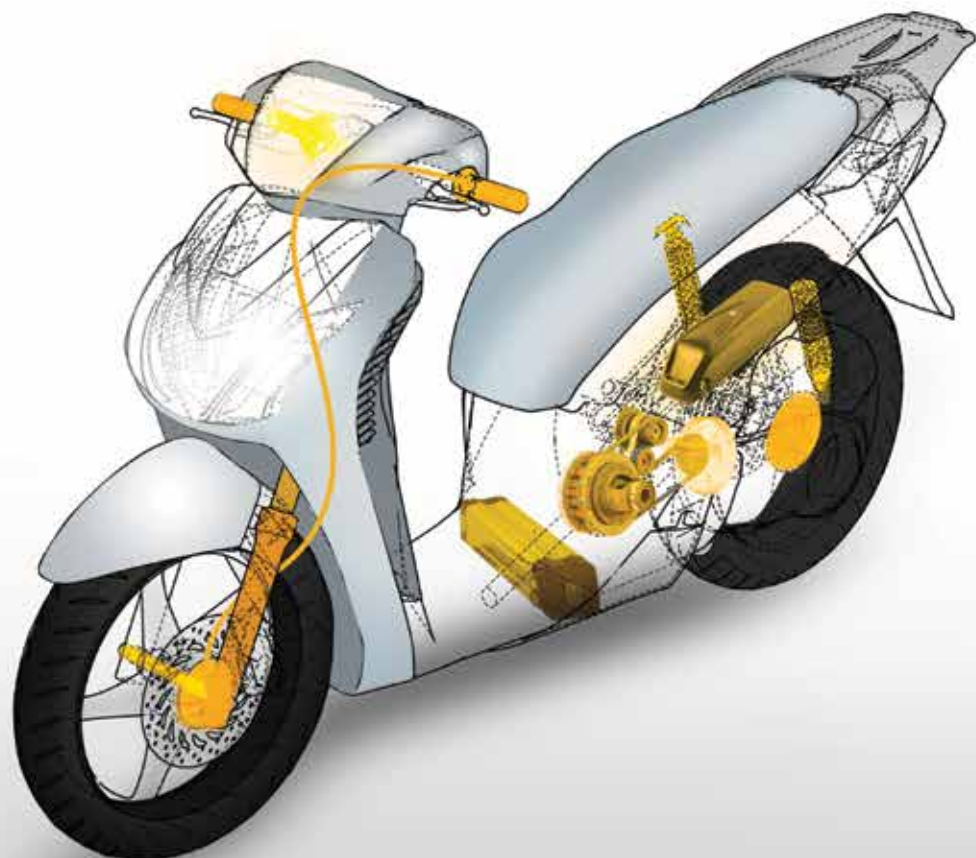
- Wide Cinemascope in XEV 9e: Three 31.24 cm screens, creating an immersive 110.08 cm wide spectacle.
 - Race-Ready Digital Cockpit in BE 6
 - VisionX: Augmented-reality Heads Up Display (HUD)
 - Infinity Roof and LightUpMe
 - Sonic Studio by Experience Mahindra: 16-speaker Harman Kardon sound system with Dolby Atmos
 - LiveYourMood: Pre-set themes (Calm, Cozy and Club) with signature sonic tunes curated by AR Rahman, custom driver seat, ambient light & climate control adjustments
 - EyeDentity: The Driver and Occupant Monitoring System (DOMS) to track driver fatigue. This also doubles as selfie camera for clicking pictures and for video calls
 - Secure360: Detects and records surroundings with 360-degree camera and inside with in-cabin camera and stores in the vehicle. It also provides live view via mobile app
 - Autopark: Features 12 ultrasonic sensors enabling perpendicular, angular & parallel parking along with reverse assist and remote-controlled option
- ₹ 4500 Crore is the allocated investment out of the total ₹ 16,000

Crore investment in the F22-F27 cycle (as already announced) which includes powertrain development, two product top hats including software & tech and manufacturing capacity.

Mahindra's go-to-market strategy for the Electric Origin SUVs will roll out in a phased manner in the latter part of January 2025. Deliveries are expected to commence towards the end of February or early March 2025.

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- Around 400 Tech Experts for seamless customer experience with dedicated support from Mahindra Research Valley (MRV)
- Over the Air (OTA) update for a seamless product and ownership experience
- CHARGE.IN, a dedicated charging vertical with 350+ experts and industry-first relationship manager for a hassle-free charging experience



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D. Baburaj, Head - Marketing, Lucas TVS (second from left) with his team

INNOVATING BEYOND BORDERS: LUCAS TVS EXPANDS PRODUCT PORTFOLIO AND GLOBAL REACH

Lucas TVS, a leading name in the Indian automotive electricals sector, showcased its diverse product portfolio and strategic vision at IAA Transportation 2024. Known for its dominance in the domestic market, the company is now charting a course for expansion into Europe and other global markets. The event provided an ideal platform for Lucas TVS to highlight its latest innovations, including EV-specific motors and advanced manufacturing capabilities.

"We are a leader in automotive electricals, especially in the domestic market in India, and now we aim to expand our base in Europe and other countries," said D. Baburaj, Head - Marketing, Lucas TVS. "At IAA, our goal is to showcase not only our core products like starter motors, alternators, and wiper motors but also the advanced motors we've developed, such as EPS motors and ABS motors, which are already being supplied to select customers in India."

Strategic Focus on EVs and CVs

Lucas TVS emphasized its focus on the evolving electric vehicle (EV) segment. The company sees significant opportunities in developing and supplying products

tailored for EVs, both in domestic and international markets. Baburaj explained, "We are keen to explore opportunities in the EV segment and identify the types of products we can develop and offer to global customers."

The company's commercial vehicle segment also holds promising growth potential. While volumes in this category may be smaller, the value contribution from products like starter motors, alternators, and wiper systems is substantial. "This segment is a key area for improving our revenue, both in terms of top-line and bottom-line growth," Baburaj noted.

Investment in Excellence

Over the past four years, Lucas TVS has invested around €50 million in upgrading its manufacturing capabilities. These investments aim to ensure global quality standards and cater to the rising demand for both traditional and electric vehicle components. "Even though there is a lot of talk about electrification, we believe internal combustion engines will continue for some more time. This is why we have cautiously invested in manufacturing lines to

maintain quality and meet global standards,” Baburaj said.

The company has implemented these upgrades not only at its main Chennai facility but also across its other plants. This strategic move has impressed potential customers during recent interactions. “We have showcased these advancements to some of our customers, and they have shown keen interest in our capabilities,” Baburaj added.

Expanding Global Presence

Currently, Lucas TVS exports starter motors and wiper motors to the United States and supplies compressor motors to a key customer in Europe. However, the company sees significant untapped potential in the European market for its standard products. Baburaj pointed out that customers are increasingly looking for alternatives to Chinese suppliers, which has created a favorable environment for Indian manufacturers like Lucas TVS.

“Our starters and wiper motors are supplied to select OEMs

in the U.S., and we aim to replicate this success in Europe,” Baburaj stated. “India is seen as a potential base, and we are leveraging this perception to expand our footprint globally.”

Navigating Market Challenges

Reflecting on the fiscal year 2024-25, Baburaj admitted that the commercial vehicle segment’s growth has been slower than anticipated. “We expected growth in the commercial vehicle segment from Q2 onwards, but unfortunately, it hasn’t materialized. We foresee some improvement in Q4,” he said. Passenger vehicles, on the other hand, have shown robust growth, although some slowdown is expected in the coming months.

To mitigate market uncertainties, Lucas TVS is diversifying its product portfolio and targeting new opportunities. Baburaj concluded optimistically, “We believe that by expanding our product offerings, especially in the EV and passenger vehicle segments, we can maintain steady growth despite global economic challenges.”





Narayan Subramaniam,
CEO & Co-founder (left) & Niraj Rajmohan,
CTO & Co-founder, Ultraviolette

ULTRAVIOLETTE

LAUNCHES EXPERIENCE CENTER IN DELHI NCR

Ultraviolette is proud to announce the opening of its first UV Space Station in North India, located in New Delhi, marking a monumental step in its journey toward revolutionizing electric mobility across India. This new Experience Center is the 12th to be inaugurated this year, reflecting Ultraviolette's commitment to expanding its retail footprint to 12 cities in Phase 1 of its expansion plans.

Strategically situated in the heart of New Delhi, this state-of-the-art facility offers an immersive platform for customers to explore Ultraviolette's flagship high-performance electric motorcycle, the F77 MACH 2. Equipped with cutting-edge UV SuperNova DC fast charging infrastructure, the UV Space Station is designed as a comprehensive 3S setup, integrating Sales, Service, and Spare Parts to deliver a seamless ownership

experience.

Speaking on the occasion, Narayan Subramaniam, CEO and Co-founder of Ultraviolette, remarked, "The launch of our first UV Space Station in North India is a significant milestone in our journey. New Delhi, a city that thrives on innovation and sustainability, is the perfect location for this expansion. The UV Space Station launch in Delhi NCR marks Ultraviolette's commitment



The co-founders inaugurating the new Experience Center

towards establishing our retail presence in 12 cities by Dec 2024. This not only opens up a key market but also reinforces our dedication to transforming urban mobility by delivering advanced technology and exceptional experiences to our customers.”

The launch of this facility coincides with the Delhi government’s continued efforts to promote EV adoption. The Delhi EV Policy, initially introduced in 2020, has recently been extended to provide benefits for EV buyers until March 2025. Additionally, the government is in the process of drafting an updated EV policy, aiming to further expand infrastructure and introduce measures to accelerate

the adoption of sustainable mobility solutions. These efforts reflect a shared vision between Ultraviolette and the policymakers to combat pollution and reduce carbon footprints through advanced, eco-friendly technology.

Adding to this, Niraj Rajmohan, CTO and Co-founder of Ultraviolette, stated, “The opening of our Experience Center in Delhi NCR marks a pivotal moment in our mission to reshape the future of transportation. With the city’s progressive EV policies and expanding infrastructure, we are excited to offer customers a glimpse into the next generation of electric mobility. Our focus on cutting-edge engineering and innovative design is aligned with our vision to provide

high-performance, sustainable solutions that drive the future of transportation.”

Ultraviolette now boasts a presence in key markets including Delhi NCR, Karnataka, Tamil Nadu, Kerala, Andhra Pradesh, Telangana, Maharashtra, and Gujarat. This growing footprint is a testament to the brand’s ambitious expansion strategy and its dedication to setting new benchmarks in electric mobility.

Bookings for the Ultraviolette F77 MACH 2 are now open, and customers can experience firsthand the seamless blend of innovation and design at the new Experience Center.



PMI Electro Mobility to supply 250 Electric Buses to BEST



Dipesh Dwivedi, Director, PMI Electro Mobility (left) and Anil Diggikar, General Manager, BEST

PMI Electro Mobility, a leading and dynamic player in the Electric Buses segment has announced that it has entered into an agreement with Brihan Mumbai Electric Supply & Transport Undertaking (BEST) to supply 250, twelve-meter electric buses on. The agreement was signed by Shri Anil Diggikar, IAS, General Manager, BEST and Mr. Dipesh Dwivedi, Director, PMI Electro Mobility. The company will deliver these buses in different lots by Q2 of FY26.

Speaking at the occasion, Dr. Aanchal Jain, CEO, PMIElectroMobility Solutions Pvt. Ltd, said, "It is indeed an honour for us to commence operations in the financial capital of the country and are thankful to BEST for giving

us this opportunity to serve people of Mumbai and its extended suburbs who travel long distances everyday".

"Our electric buses are designed to offer not only superior performance, safety and reliability but also a cleaner, greener alternative for intracity travel. This agreement aligns perfectly with our vision to lead the transition to electric mobility in India combined with honourable Prime Minister's dream of making India a net zero nation by 2070", added Dr. Jain.

PMI Electro Mobility will deliver 250 single decker airconditioned electric buses equipped with advanced technology and features designed to provide a comfortable, safe, and

eco-friendly travel experience for passengers. These buses are set to operate across various routes in Mumbai and its extended suburbs under GCC model thereby enhancing the connectivity within the city limits while significantly reducing the carbon footprint.

PMI Electro Mobility is currently running over 1700 electric buses in the country across 31 cities starting from Leh to Kerala. Mumbai would be the second city in Maharashtra after Nagpur where 144 electric buses are successfully running. These electric buses are expected to save around ~300,000 equivalent tons of carbon dioxide and over 125 million litres of diesel over 12 years of its operation.

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ALLISON TRANSMISSION

Driving Innovation in Electrification & Driver Comfort

Trond Johansen, Director of European Area Sales at Allison Transmission, reveals how the company is driving innovation in electrification and driver comfort with its latest advancements in the commercial vehicle sector in an exclusive interview with Rajesh Rajgor at the IAA Transportation 2024. From E Axles to energy-agnostic transmissions, Allison is at the forefront of providing solutions for the next generation of heavy-duty vehicles.

Trond Johansen,
*Director of European
Area Sales,
Allison Transmission*

One of the standout innovations from Allison Transmission is its e-Axle technology, a fully integrated system combining an electric motor, transmission, and brakes for heavy-duty vehicles. "The e-Axle system integrates all components into one unit, which saves space, allowing for more battery capacity within the vehicle frame," Johansen explains. This



innovative solution is already in use in refuse collection vehicles in the U.S., showcasing its practical application in the field. "We have a 8.5 and a 10 ton axle weight version installed in vehicles like the Oshkosh McNeilus refuse collection vehicle and the Isuzu NovoVolt full electric midibus," he adds.

In addition to electrification, Allison continues to lead with its conventional fully automatic transmission systems, such as the 3000 and 4000 SeriesTM. These transmissions which are energy-agnostic and compatible with a wide range of technologies including internal combustion engines like diesel, CNG/natural gas and hydrogen ICE engines as well as electric motors and fuel cell technology. "Our conventional transmissions are energy-agnostic, making them compatible with various powertrains," he explains. This flexibility is crucial for fleet operators transitioning across different energy sources, providing a seamless shift to alternative fuels while maintaining operational efficiency.

The growth of the truck and bus industry has been a positive trend for Allison Transmission, and the

company continues to thrive as one of the market leaders. "The truck and bus industry has been doing well over the past couple of years, and we expect to maintain our position," Johansen shares. With high customer satisfaction and positive feedback, Allison's products are well-received, demonstrating the company's solid standing in a competitive market.

An important aspect of Allison's success is its focus on improving driver comfort and addressing the ongoing driver shortage. "Driver shortage is a challenge across Europe. With our transmission systems, we make operations easier for the operator," he believes. Allison's hydrodynamic torque converter and Continuous Power TechnologyTM enhance vehicle maneuverability and operator comfort, making the job more accessible and appealing. "Better maneuverability and comfort in severe duty applications are of great value, helping fleet operators recruit and retain drivers," Johansen adds.

Looking ahead, Johansen outlines Allison Transmission's role in the shift towards electrification while continuing to support traditional

powertrains. "As the industry moves toward electrification, we are committed to leading the transition with sustainable technologies," he says. At the same time, Allison remains dedicated to supporting conventional powertrains, providing a flexible solution for fleet operators to navigate the evolving landscape of commercial mobility.

Allison Transmission's flexible approach, combining electrification with enhanced driver comfort, positions it as a key player in the evolution of commercial vehicles. By offering energy-agnostic transmissions and pioneering e-Axle technology, the company is paving the way for OEMs and fleet operators to transition to sustainable solutions while maintaining operational ease. Allison's commitment to supporting both traditional and electric powertrains ensures that fleets can navigate the changing landscape of commercial mobility with flexibility and confidence. "We continue to provide advanced, reliable, and efficient solutions to meet the diverse needs of the commercial vehicle sector," Johansen affirms.




VAYVE MOBILITY TO UNVEIL EVA, INDIA'S FIRST SOLAR CAR, AT BHARAT MOBILITY GLOBAL EXPO 2025

Vayve Mobility, a new age OEM (original equipment manufacturer) that has pioneered the concept of solar electric cars, in a landmark move, will showcase the much-awaited Eva, a compact electric car that will revolutionize the way India drives. The exclusive preview will happen at the Bharat Mobility Global Expo in New Delhi between January 17 and 22.

"Eva aims to establish a new category of city cars. After the overwhelming response at Auto Expo 2023, we've incorporated customer feedback and further innovation to deliver a car that combines sustainability, style and practicality," said Nilesh Bajaj, Co-founder and CEO of Vayve Mobility.

Building on its successful debut at Auto Expo 2023, where Eva garnered admiration from thousands of visitors, the new iteration of Eva promises to set a benchmark in compact, efficient and eco-friendly commuting.

Designed to tackle the challenges of urban life—like traffic congestion, limited parking spaces and rising fuel costs—Eva is designed to redefine the urban commute experience.

With an impressive total range of 250 km per charge and 3000 km free on solar annually, Eva combines innovation and practicality. Its High Voltage powertrain technology enables super-fast charging, providing an additional 50 km of range in just 5 minutes. Wide driver visibility, quick acceleration of 0 to 40 kmph in just 5 seconds and Top Speed of 70 kmph offers a dynamic driving experience, perfect for daily city commutes. Eva comes equipped with smart connectivity features, including seamless smartphone integration, vehicle diagnostics, remote monitoring and over-the-air (OTA) updates.

Eva's operational cost is a game-changer. Compared to the average

petrol car's fuel cost of ₹5 per kilometre, Eva's cost stands at just ₹0.5 per kilometre, thanks to its lightweight and high-efficiency engineering. This makes Eva not only environmentally sustainable but also a high value for money choice for urban families.

He added, "Eva meets the needs of evolving modern consumers. With the inclusion of solar power and smart connectivity, Eva provides a futuristic yet accessible solution for urban mobility, making it an ideal second car for families."

India's urban mobility patterns underscore the relevance of Eva. With an average daily commute of less than 35 km and car occupancy below 1.5 passengers, Eva's design is tailored to meet these needs. Unlike traditional automakers, Vayve Mobility has focused on bridging the innovation gaps in the small car segment, offering a product that is both aspirational and efficient.

Mahindra Last Mile Mobility Limited partners with Vidyut for Battery-as-a-Service (BaaS) model.



 Vidyut

mahindra
LAST MILE MOBILITY

MAHINDRA

partners with Vidyut for Battery-as-a-Service for its 4 & 3W commercial EVs

Mahindra Last Mile Mobility Limited (MLMML), a subsidiary of Mahindra & Mahindra Limited (M&M) and Vidyut (VT), have announced a collaboration. MLMML is India's no.1 electric commercial vehicle manufacturer, having sold more than 2 Lakh EVs. Vidyut is a Bengaluru-based full-stack EV startup focused on making EV ownership more convenient and stress-free. Both the companies have collaborated to launch Battery-as-a-Service (BaaS) financing for MLMML's EVs, including the Mahindra ZEO (4W) as well as Zor Grand and Treo Plus (3Ws). Under the BaaS

program, customers will pay a minimal rental fee starting at ₹ 2.50 per kilometer. This initiative enables EV owners to rent the battery, reducing the upfront vehicle acquisition cost by up to 40% compared to traditional ICE vehicles.

Vidyut will also give MLMML vehicle customers the choice to either buy out or continue with the battery rental program post the financing term. By paying the battery's remaining worth, the vehicle owners can also choose to discontinue the program at any moment.



BPW

Unveils Advanced Solutions for Sustainable Transport

Nagaraj Ubale,
MD, BPW Trailer
Systems India

During an insightful conversation with Nagaraj Ubale, Managing Director of BPW Trailer Systems India, at IAA 2024, Rajesh Rajgor delved into BPW's pioneering innovations in electrification and digitalization tailored for the Indian logistics sector. Nagaraj discussed advancements like the E-Power Axle and iC Plus, which are set to transform transportation efficiency and sustainability in India.

The E-Power Axle, A power to Trailer

At the IAA Transportation Show in Hannover 2024, Nagaraj highlighted BPW's pioneering innovations in electrification and digitalization, focusing on advancements tailored to Indian logistics. "We're focusing on electric solutions that meet both current demands and future growth," Nagaraj shared, presenting BPW's E-Power Axle, a self-energy-generating system designed to power various trailer functions, including refrigeration units. This axle, which converts kinetic energy from the trailer's movement into electric power, can reduce diesel dependence for refrigerated transport—an innovation that Nagaraj stressed as "transformational for India's cold-chain logistics."

Addressing the specific needs of refrigerated vehicles, BPW designed the E-Power Axle to support reefer units by generating power independently. "Our E-Power Axle is engineered to support refrigeration units by providing a steady, self-generated power source," he shared. This not only improves fuel economy but also ensures a reliable energy supply, safeguarding perishable cargo.

iC Plus, an integrated telematic system

After the BPW's success of Express logistics solution for the Indian logistics sector, With comprehensive package of AMC fleet for 1500 vehicles. Digitization of trailer fleet is the next step for an Indian logistics sector.

BPW also introduced iC Plus, an intelligent maintenance system that provides real-time alerts for upkeep, reducing the likelihood of unexpected downtimes. "iC Plus allows customers to manage maintenance more proactively, with scheduled alerts that optimize the lifecycle of critical components," he explained. When integrated with BPW's telematics system, Intelligent Data Management (IDM), iC Plus sends alerts on maintenance metrics, mileage, and load weights directly to fleet managers' mobile devices, enhancing ease and visibility in fleet management.



Enhanced Maneuverability Solutions

Other highlights from BPW's product range at the show included reverse-steering and self-steering axles, engineered to enhance trailer maneuverability with a reduced turning radius—an essential feature in India's congested urban areas. "We've designed our axles to provide increased efficiency and tighter control, potentially reducing fuel consumption by up to one liter per 100 kilometers," Nagaraj said. With logistics demands growing in urban centers, this feature could prove invaluable for fleet operators looking to optimize fuel use and navigate tighter spaces.

BPW's focus on digital integration extends to air suspension and electronic braking systems, both of which are becoming increasingly relevant in the Indian market for their advantages in payload management and vibration reduction. "Air suspension and EBS technology allow for smoother transport, increased payloads, and better fuel efficiency—priorities for our customers operating on India's challenging road networks," Nagaraj added, underscoring BPW's

commitment to engineering for durability and efficiency.

He further emphasized BPW's collaborative approach in India, working closely with OEMs and trailer manufacturers to meet the unique requirements of the Indian logistics market. "Our ecosystem approach involves working across all elements—from axles to telematics—to offer solutions that are not only technically advanced but also economically viable for transporters," he shared. By integrating components like the E-Power Axle, iC Plus, IDM (Intelligent Data Management), and others, BPW offers a comprehensive solution tailored to the regulatory and operational needs of Indian logistics.

With products like the E-Power Axle and iC Plus, BPW is setting a new benchmark for innovation and

efficiency in India's transport sector. "BPW's technology is designed to deliver immediate and measurable benefits for fleet operators, making it a compelling choice as the industry shifts towards smarter, more sustainable logistics solutions," Nagaraj concluded.





(From left) Tushar Mehta, Co-Founder & COO, Zypp Electric; Shalu Gupta Co-Founder & Director, E-Sprinto; Rashi Agarwal, CBO & Co-founder, Zypp Electric; Akash Gupta, CEO & Co-founder, Zypp Electric; and Atul Gupta, Director, E-Sprinto

E-Sprinto to deploy 30,000 high-speed electric vehicles into Zypp Electric's fleet

Zypp Electric, India's largest EV-based last-mile delivery service, has entered into a strategic partnership with e-Sprinto, the nation's leading electric two-wheeler company. This collaboration aims to deploy 30,000 e-Sprinto high-speed electric vehicles into Zypp Electric's fleet over the next three years. This move strengthens both companies' commitment to sustainable transportation and better livelihoods for delivery pilots. The partnership will also focus on providing top-tier after-sales service and support to the pilots, ensuring the fleet's reliability and longevity. This reflects Zypp and e-Sprinto's shared commitment to sustainability and operational excellence.

Speaking on this collaboration, Rashi Agarwal, Co-Founder and CBO of Zypp Electric, said, "With the growing demand of EVs in the last mile delivery segment, Zypp wanted strong partnerships to get control

on the supply too. Partnering with e-Sprinto is a pivotal move for Zypp Electric as we aim to deploy 200,000 electric vehicles in the next 3 years, significantly contributing to zero-emission last-mile delivery. This collaboration allows us to enhance our fleet with 30,000 advanced e-scooters, directly addressing the urgent need for sustainable logistics solutions in India's booming e-commerce market. Together, we are not only empowering delivery partners to improve their livelihoods but also leading the charge towards a greener future for urban mobility with good quality EVs suitable for delivery purposes and growth."

e-Sprinto's Co-Founder and Director, Atul Gupta, added, "We are thrilled to join forces with Zypp Electric. This partnership reflects our shared commitment to sustainability, innovation, and partner success. By combining our strengths, we can create unparalleled value for

customer satisfaction in the last-mile delivery ecosystem."

In this partnership, the new fleet of vehicles will boost the efficiency of last-mile delivery operations. It will also empower 30,000 of Zypp Electric's delivery pilots with advanced, reliable vehicles, ensuring better earnings and productivity. This initiative aligns with the shared goal of reducing carbon emissions and creating eco-friendly urban logistics.

e-Sprinto vehicles are equipped with disc brakes both in the front and rear, which when combined with the presence of telescopic front shockers act as additional safety features to ensure safe rides for Zypp pilots. The powerful high-speed motor and LMFP battery in the scooter give the best combination of speed and mileage for maximum operational efficiency suited best for last-mile delivery with the growing demand of the quick commerce & food delivery segment.

RAMACHANDRA PUTTANNA APPOINTED AS BUSINESS HEAD - EV SOLUTIONS & NEW BUSINESSES OF GREAVES COTTON'S RETAIL DIVISION



Greaves Cotton Limited, a leading diversified engineering company, is pleased to announce the appointment of Ramachandra Puttanna as the new Business Head for EV Solutions & New Businesses within Greaves Retail. In his new role, Ramachandra will be responsible for driving the strategic growth plan for Greaves Retail's electric vehicle (EV) components and new verticals. He will report to Narasimha Jayakumar, CEO of Greaves Retail, as Greaves continues to advance its strategy in sustainable mobility solutions across India.

Commenting on his new role, Ramachandra Puttanna said, "I am honoured to join Greaves Cotton Limited at this pivotal stage in the company's journey towards sustainable mobility. I look forward to leveraging my experience to drive the growth of Greaves Retail's new businesses and enhance our offerings for a broader range of customers."

Narasimha Jayakumar, CEO of Greaves Retail, welcomed Ramachandra to the team, stating, "We are thrilled to have Ramachandra join us. His proven track record aligns well with our commitment to customer-centric, innovative solutions. Ramachandra's leadership will be instrumental

in advancing Greaves Retail's new businesses."

Underpinned by an asset-light approach, Greaves Retail is committed to being a fuel-agnostic provider, delivering comprehensive sales, service, and spare parts solutions across three-wheelers (3W), two-wheelers (2W), small commercial vehicles (SCVs), electric vehicles (EVs), and construction equipment. Greaves Retail ensures high vehicle uptime and maximized asset productivity, positioning it among the top three in the aftermarket segment.

Ramachandra joins Greaves Retail with over 35 years of extensive experience across renowned organizations, including Fenner India, BOSCH India, Oman Trading, Magneti Marelli, and ZF Group. Most recently, he served as Vice President of the Aftermarket business at ZF Group, where he managed operations across India and the SAARC regions. A Mechanical Engineering graduate from Mysore University, Ramachandra has furthered his education with a Post Graduate Diploma in Business Management (Marketing) from Bangalore University and an Advanced Program in Business Management from IIM Bangalore.

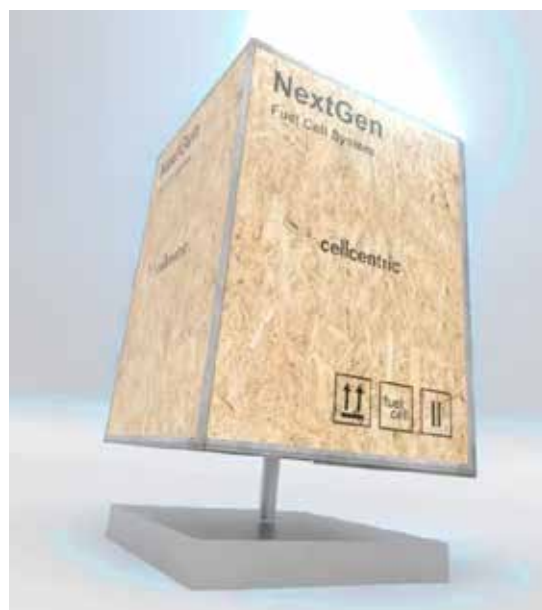
This appointment reflects Greaves Cotton's continued dedication to strengthening its leadership team as it accelerates growth in new businesses.



Cellcentric

UNVEILS NEXTGEN FUEL CELL SYSTEM

Cellcentric, a leading European fuel cell manufacturer, has introduced its latest innovation, the NextGen fuel cell system, setting a new benchmark in sustainable mobility solutions. The advanced system, designed for CO₂-neutral heavy-duty transportation, builds on the success of the BZA150 and promises improved efficiency, reliability, and scalability.





The breakthrough was showcased at the recently concluded IAA Transportation 2024 in Hanover, Germany, where Cellcentric presented a virtual 3D model of the system. The display garnered widespread attention from industry stakeholders, underlining the significance of hydrogen fuel cell technology in the decarbonization of heavy-duty transport.

Pioneering Clean Energy Solutions

The NextGen fuel cell system highlights Cellcentric's commitment to providing eco-friendly transport solutions that address the urgent need for sustainable logistics. With an advanced modular design, the system offers seamless integration into various heavy-duty applications, making it a versatile choice for manufacturers aiming to transition away from traditional diesel-powered trucks.

This innovative system is expected to play a pivotal role in enabling CO₂-neutral logistics and fostering the adoption of cleaner technologies across the transportation industry. By leveraging its expertise and technological advancements, Cellcentric aims to support global sustainability goals while enhancing the operational efficiency of heavy-duty vehicles.

Highlights at IAA Transportation 2024

At the event, held from September 17 to 22, Cellcentric's booth became a hub for discussions about the future of hydrogen fuel cell technology. The virtual 3D model of the NextGen system provided visitors with a comprehensive understanding of its technical features and potential applications.

The event also served as a platform for the company to highlight ongoing partnerships and pilot programs designed to accelerate the adoption of hydrogen-powered vehicles across Europe. This collaborative approach emphasizes Cellcentric's role as a key player in driving the industry's transition to zero-emission solutions.

Towards a Zero-Emission Future

With the successful unveiling of the NextGen fuel cell system, Cellcentric is poised to lead the transformation of the heavy-duty transport sector. By integrating cutting-edge technology and sustainable design principles, the company is paving the way for a cleaner, more sustainable future in logistics and transportation worldwide.



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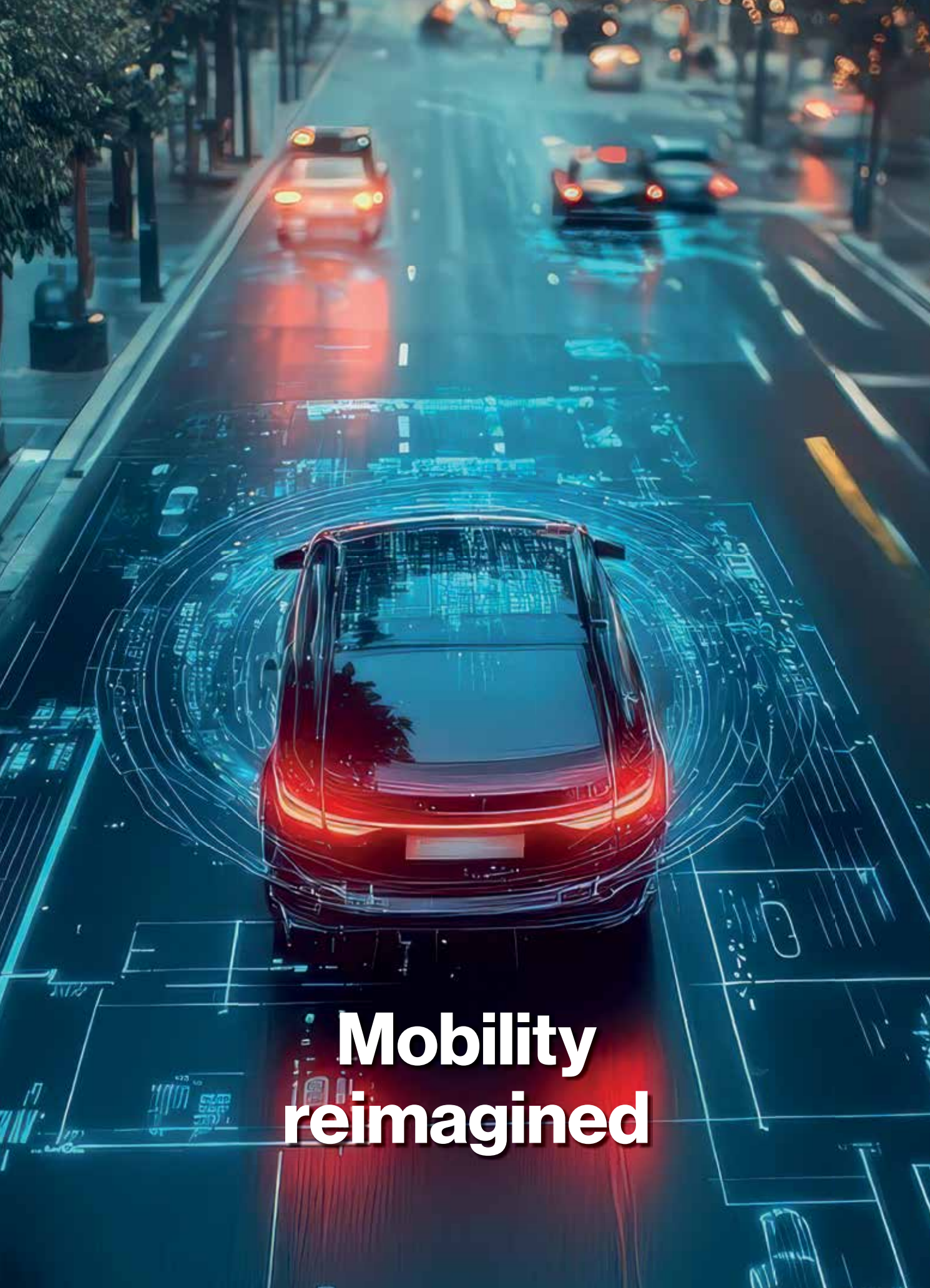


Bharat Construction
 Equipment Expo



Auto Expo - The
 Components Show 2025





**Mobility
reimagined**



NUEGO PARTNERS WITH CHECKMYBUS TO OFFER SUSTAINABLE INTERCITY BUS SERVICES TO GLOBAL CUSTOMERS

NueGo, India's largest electric intercity bus service from GreenCell Mobility, has partnered with CheckMyBus, world's leading bus travel metasearch platform, to revolutionize intercity bus travel for both international and domestic guests in India.

Devendra Chawla, MD & CEO – GreenCell Mobility, shared, "Partnering with CheckMyBus allows NueGo to connect with global travelers from over 100 countries, offering them a premium intercity bus experience in India that prioritizes sustainability. Together, we are redefining travel by embracing greener alternatives and contributing to a better future. By combining zero-emission mobility with India's rich cultural heritage and diverse landscapes, NueGo electric buses are making eco-friendly tourism a reality."

This collaboration aims to provide an eco-friendly and sustainable travel experience, aligning with global

efforts to combat climate change and reduce carbon emissions. With a network connecting over 100 cities across India, NueGo's electric buses offer a safe, cleaner & comfortable alternative to traditional bus services, promoting a future of pollution-free travel with focus on guest experience. This partnership will make NueGo's extensive network easily accessible on the CheckMyBus platform, enabling global travelers to discover and explore India's diverse destinations in an environmentally conscious manner.

Marc Hofmann, CEO of CheckMyBus, stated, "We are excited to partner with NueGo to bring a climate-friendly bus travel experience to our global travelers in India. As the world shifts towards greener alternatives, the NueGo and CheckMyBus partnership aligns perfectly with our mission to make it simple for travelers to find sustainable mobility. This collaboration not only enhances the

travel experience but also contributes to a cleaner and greener planet."

NueGo's fleet of electric buses is designed to offer comfort, safety, and convenience while minimizing the environmental impact. By choosing NueGo, travelers contribute to a significant reduction in carbon footprint, supporting India's vision for a greener and more sustainable future.

NueGo has been a frontrunner in championing Women's Safety in India's intercity electric bus service sector. It is the first brand to launch a dedicated 24x7 helpline number for women travelers, introduce Pink Seat feature while ticket booking, providing clean and hygienic mid-points and buses equipped with advanced cutting-edge security measures such as CCTV Surveillance, GPS Live Tracking, Driver's Breath Analyzer Tests, Speed lock at 80 km/hr and more.

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