

# EV

## monthly updates

*January 2021*

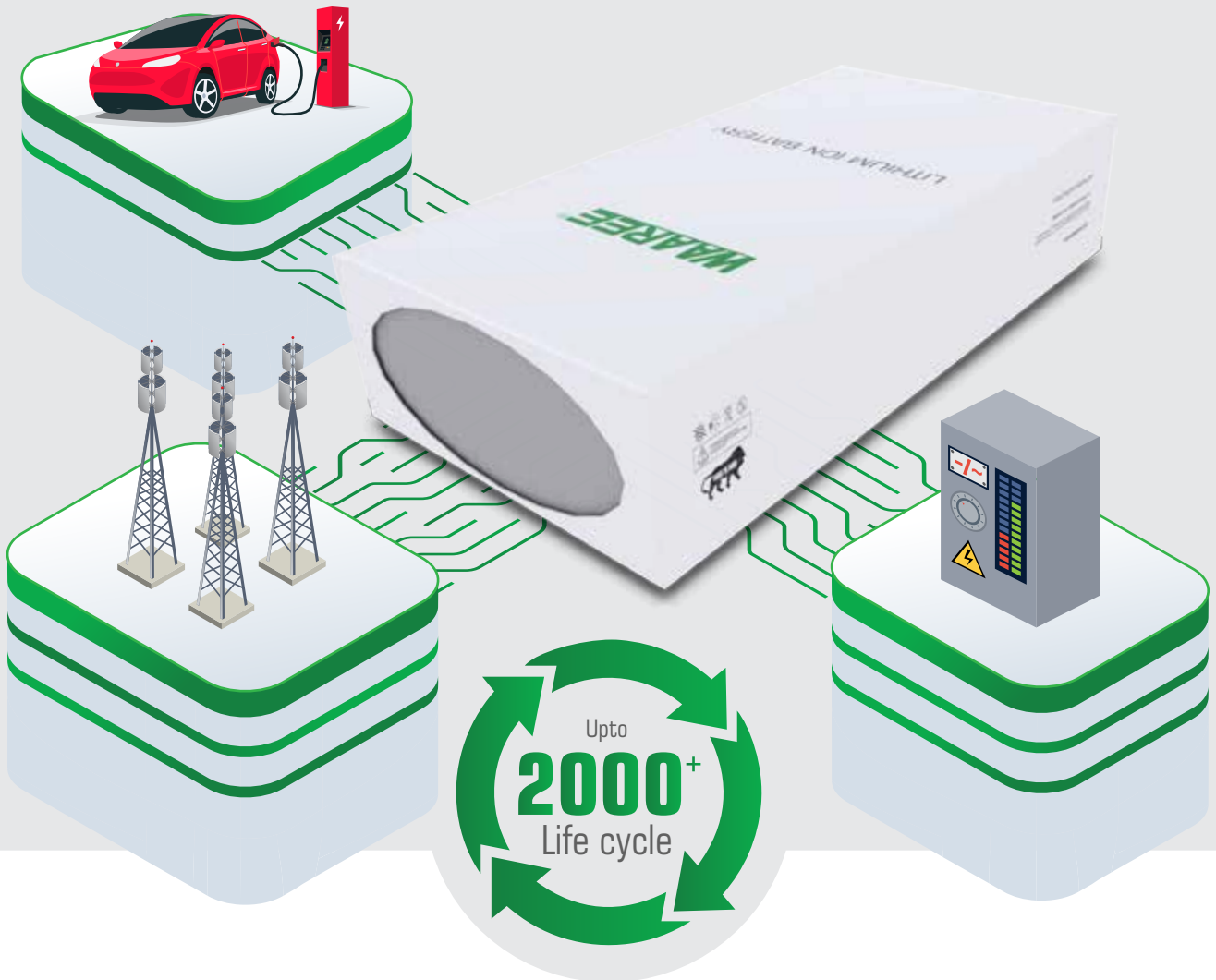


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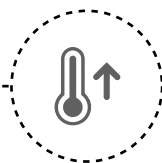
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Fast & Efficient  
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Temperature cycling test

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# 1. NEW PRODUCT LAUNCHES

Table 1.1: New Product Launches in January 2021

Product	Vehicle Type	Battery Specs	Other Specs	Price
Okinawa Dual	Scooter (Cargo)	<ul style="list-style-type: none"> <li>Range – 130 km</li> <li>Charging time – 4-5 hrs</li> <li>Battery – 48W 55Ah (Li-ion)</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 25 km/h</li> <li>Payload – 200 kg</li> <li>Motor – 250 W</li> </ul>	Rs. 58,998
Odysse E2Go	Scooter	<ul style="list-style-type: none"> <li>Range – 60 km</li> <li>Battery – 28AH lead acid</li> <li>Charging time – 3.5-4 hrs</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 25 km/h</li> <li>Motor – 250 W</li> </ul>	Rs. 52,999
Odysse E2Go Lite	Scooter	<ul style="list-style-type: none"> <li>Range – 60 km</li> <li>Battery – 1.26 kWh Li-ion</li> <li>Charging time – 3.5-4 hrs</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 25 km/h</li> <li>Motor – 250 W</li> </ul>	Rs. 63,999
Komaki TN95	Scooter	<ul style="list-style-type: none"> <li>Range – 80-100 km</li> <li>Battery – Li-ion</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 70 km/h</li> </ul>	Rs. 98,000 (ex-showroom, Delhi)
Komaki SE	Scooter	<ul style="list-style-type: none"> <li>Range – 100-120 km</li> <li>Battery – Li-ion</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 70 km/h</li> </ul>	Rs. 96,000 (ex-showroom, Delhi)
Komaki M5	Motorcycle	<ul style="list-style-type: none"> <li>Range – 100-120 km</li> <li>Battery – Li-ion</li> </ul>	<ul style="list-style-type: none"> <li>Top speed – 70 km/h</li> </ul>	Rs. 99,000 (ex-showroom, Delhi)

## Upcoming Launches

### Kia to introduce new electric car this quarter

Kia announced that it will be introducing seven fully-electric cars till 2027. The company plans to include electrified sedans, sport-utility vehicles, and multipurpose vehicles in the new lineup. The company will introduce the first out of the seven electric cars as early as Q1 2021. This car will offer an electric driving range of over 500 kilometers and a high-speed charging time of under 20 minutes.

### Piaggio bets big on e-commerce biz; plans to bring electric three-wheelers in the segment

Italian automobile manufacturer Piaggio plans to launch electric three-

wheelers in the ongoing quarter (Q1 2021) to cater to the growing demand in the e-commerce business segment. The Company will have three launches: cargo fixed battery electric vehicle, cargo swappable battery, and passenger fixed battery three-wheelers.

### **Earth Energy to roll out six EVs this year**

Automotive start-up Earth Energy EV announced the introduction of 6 new commercial and non-commercial e-vehicles in the India market in 2021. The Company plans to manufacture and supply 4,500 units of EVs this year with 96% localisation.

### **Escorts to commercially launch electric tractor in India**

Escorts announced plans of launching electric tractor in India post receiving certification from the Central Farm Machinery Training and Testing Institute, Budni, for compliance of its electric tractor with the provision of the Central Motor Vehicles Rules (CMVR), 1989. Escorts Limited is the first and the only company to receive the CMVR certificate in India for electric tractors. Designed and developed by the in-house R&D of Escorts, the electric tractor is in the 21-30 HP segment.

### **US-based Triton to enter India with N4 electric sedan priced at ₹35 lakh**

The US-based EV manufacturer, Triton Electric Vehicle LLC, plans to launch its electric sedan Model N4 in India priced at INR 35 lakh. Meanwhile, the company is said to be in talks with Bharat Electronics Limited (BEL) for a possible joint venture to produce batteries and electronics systems for energy storage units and EVs. The Triton electric sedan will be available in four variants and a high-performance limited edition N4-GT of which only 100 units will be produced.

### **MG Motor India to launch sub-20 lakh electric vehicle next year: MD Rajeev Chaba**

MG Motor India – the Indian subsidiary of China's largest automaker SAIC – announced plans of launching a sub-Rs 20-lakh EV in late 2020, thereby expanding its presence at the lower end of the market. The company has already commenced work to set up a battery assembly facility in the country to introduce the affordable EV.

# 2. TENDERS

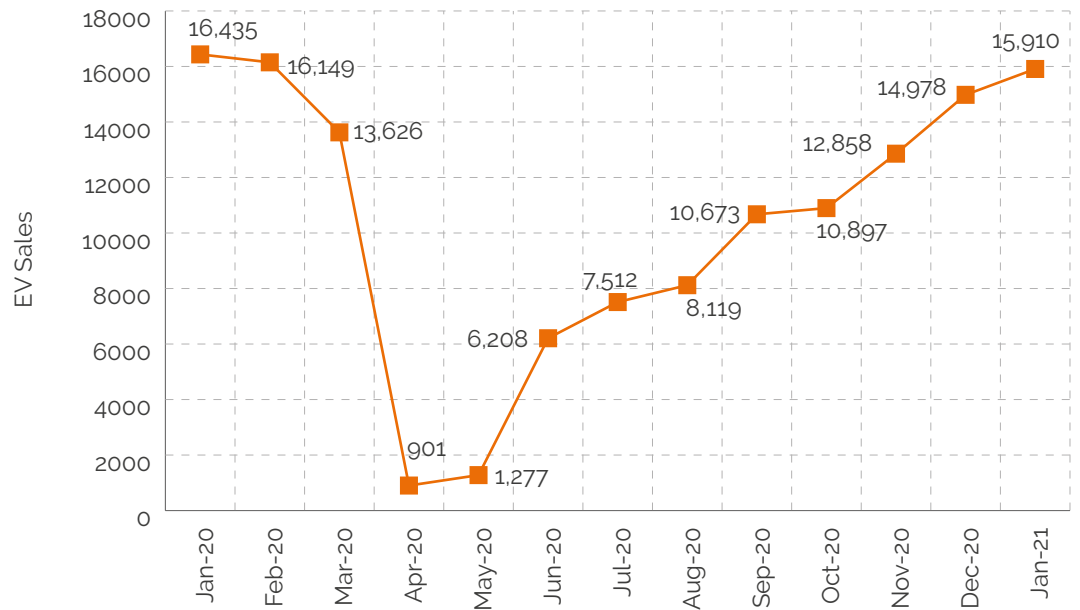
Table 2.2: Tenders in January 2021

Tender name	Tender Authority	Bid submission End date	Tender value
Tender for establishment of Electric Vehicle (EV) Charging Solution at Kalyan Railway Station, Mumbai	Central Rly	29-Jan-2021	Rs. 55,132
Purchase of 3 Nos. Battery Operated AC Electric Buses including 5 years AMC under WBHIDCO Ltd., New Town, Kolkata	West Bengal Housing Infrastructure Development Corporation Ltd.	25-Jan-2021	
Request for Qualification and Proposal (RFQP) for Operation of 575 low floor battery powered airconditioned private stage carriage (electric buses) under the cluster scheme of Government of Na-tional Capital Territory (NCT) of Delhi	Transport Department, Government of NCT of Delhi	16-Mar-2021	
Supply of 15 number of Hydrogen PEM fuel cell electric buses	Indian Oil Corporation Ltd.	25-Jan-2021	
Design, Build, Supply, Delivery, Installation, Testing and Commissioning of Electric Vehicle Supply Equipment (EVSE) Including Related Electrical Infrastructures	Kochi Metro Rail Ltd.	22-Feb-2021	

# 3. EV SALES TRENDS

The January 2021 sales of EVs have surged by 6% from previous month's sales to register 15,910 units. However on a y-o-y basis, there has been a decline of 3.2% in the sales of registered EVs.

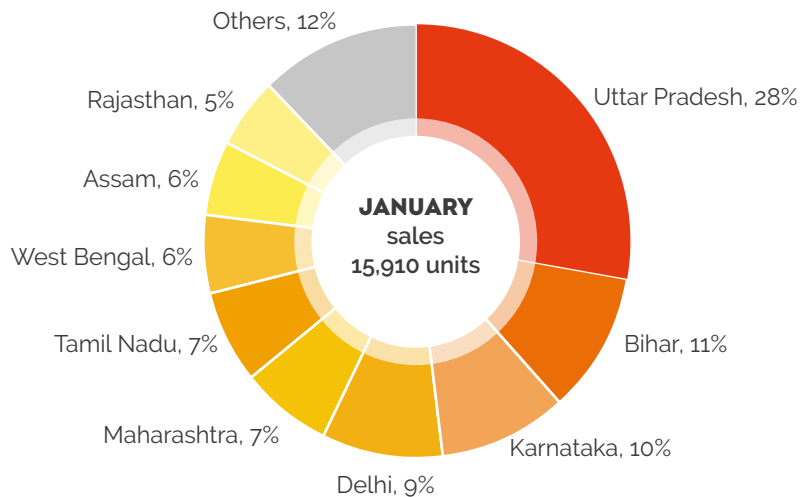
**Fig 3.1: Registered EV sales in India (Jan 2020 –Jan 2021)**



Source: Vahan Dashboard, JMK Research  
 Note: Sales figure represent EVs registered across 1273 RTOs in 33 states/ UTs.

In the region-wise category, in January 2021, Uttar Pradesh has the maximum registered EV sales (28%) in India followed by both Bihar (11%) and Karnataka (10%).

**Fig 3.2: (State/ UT) Region-wise registered EV sales - January 2021**

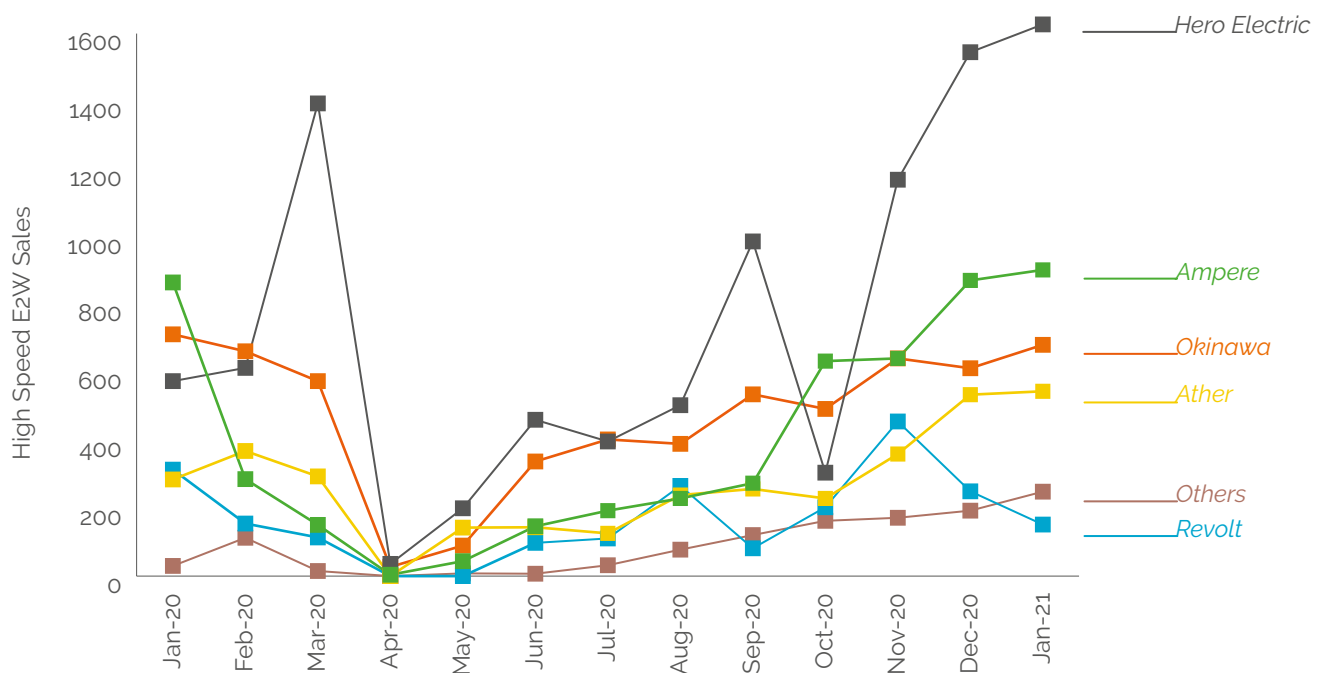


Source: Vahan Dashboard, JMK Research  
 Note: Sales figure represent EVs registered across 1273 RTOs in 33 states/ UTs.

## High-Speed Electric Two Wheeler (E2W)

In the high-speed (HS) E2W segment, the cumulative sales of Ampere, Ather, Hero Electric, Okinawa and Revolt in January 2021 is 3,909 units, increasing just 2% from the corresponding December 2020 sales mark. With respect to January sales, Hero Electric has taken significant lead, followed by Ampere and Okinawa in the HS-E2W segment.

Fig 3.3: Player-wise high-speed E2W sales trend



Source: Vahan Dashboard, JMK Research

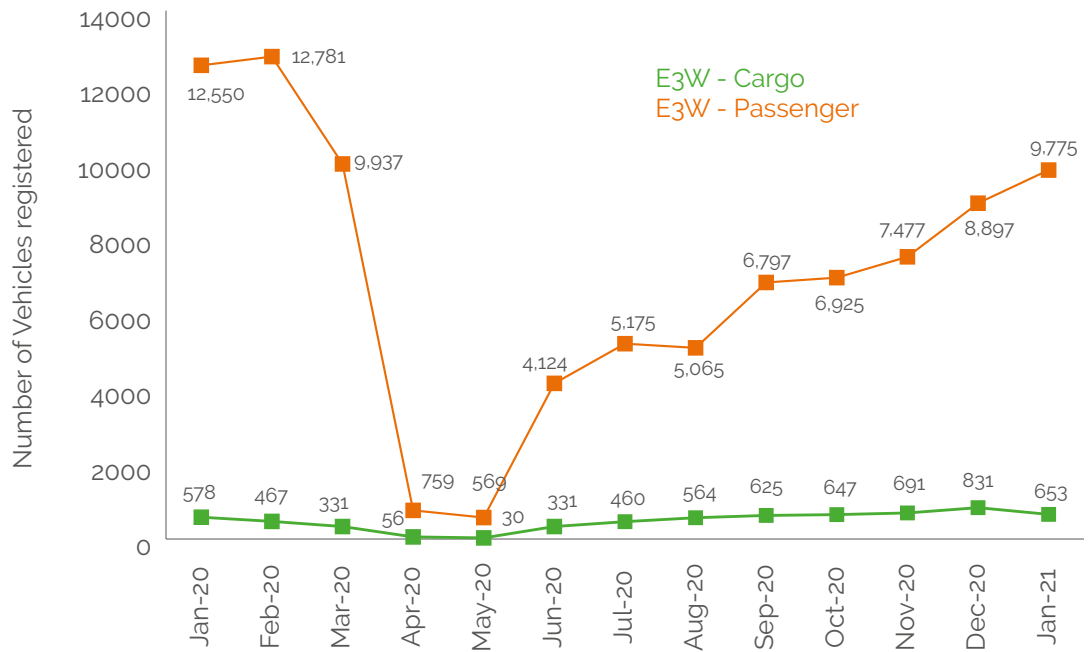
Note: Sales figure are for only high range E2W models with speed higher than 25kmph. Sales figure represent E2Ws registered across 1273 RTOs in 33 states/ UTs.



## Electric Three Wheelers (E3W)

The combined sales of both passenger and goods-type (registered) E3Ws in January have grown by about 7% over December 2020 sales to reach 10,428 units. The passenger-type E3W accounted for 93.7% of the total E3W sales for January.

Fig 3.4: Sales trend of cargo E3W and passenger E3W



Source: Vahan Dashboard, JMK Research

Note: Sales figure represent E3Ws registered across 1273 RTOs in 33 states/ UTs.

# 4. POLICIES AND REGULATIONS

## E-vehicles get UP CM's push, road tax may go

During a review of EVs by the department of infrastructure and industrial development, the CM, Yogi Adityanath, proposed an exemption in road tax and registration fees in order to promote EVs. The CM has already directed his officials to make policy efforts to encourage manufacturing of electric vehicles in the state for a better future.

## Chandigarh all set to go green with new electric vehicle policy

The Chandigarh administration is all set to introduce a wide range of incentives, changes in building bylaws, and infrastructure upgrade to promote electric vehicles in the city under its new policy. Under the proposed plan, the registration fee, road tax and 50% parking charges for all electric vehicles will be waived in order to incentivise their purchase.

## Scrapage policy approved, to come into effect from April 2022

The Ministry of Road Transport and Highways (MoRTH), in its vehicle scrappage policy released on January 25, approved the scrapping of government vehicles older than 15 years. The policy is slated to come into effect from April 1, 2022. The vehicle scrappage policy for personal, transport, commercial vehicles is yet to be finalised. Finance Minister Nirmala Sitharaman had in August 2019 said a scrappage policy is in the works, when the slowdown began in the auto industry in the aftermath of the COVID-19 pandemic. On July 26, 2019, the government had proposed amendments to motor vehicle rules to allow the scrapping of vehicles older than 15 years in a bid to spur the adoption of electrical vehicles.

## Green tax to be imposed on older vehicles soon, to clean up the environment by phasing out unfit and polluting vehicles

MoRTH on January 25 approved a proposal for Green Tax on old vehicles. Under the new norms, the transport vehicles which are older than eight years could be taxed at the rate of 10-25 percent of road tax. These taxes will be imposed at the time of renewal of fitness certificate. A higher green tax of 50 percent will be imposed on vehicles being registered in highly polluted cities while public transport vehicles, such as city buses, will be charged a lower green tax. However, the government exempted vehicles used for farming, such as tractors, harvesters and tillers. In addition, vehicles like strong hybrids, electric vehicles and those using alternative fuels like CNG, ethanol and LPG will be exempted from green tax.

# 5. CHARGING INFRASTRUCTURE

## Zypp plans 5k battery swapping stations in 100 cities in 3 years

The EV startup Zypp plans to set up 5,000 battery swapping stations for two-wheelers and three-wheelers across the nation by 2023. The Company will be investing INR 50 crore over the defined time in setting up these stations. The last-mile delivery company, now operational in six cities, has already set up 50 battery swapping stations across Delhi NCR, and Jaipur.

## MG Motor, Tata Power install 60 kW Superfast EV charging station in Mangaluru

MG Motor, in collaboration with Tata Power, deployed the first 60 kW superfast public EV charging station in Mangaluru under the company's initiative to enhance the national EV charging ecosystem with 50 kW and 60 kW DC superfast charging stations. The latest public EV charging station is available to all vehicles compatible with CCS fast-charging standard. MG ZS EV can be charged from zero to 80% in 50 minutes at a superfast charging station. MG has now installed 15 superfast charging stations across ten cities in India.

## Okaya Power gets contract to set up 4,244 EV charging stations from state-run REIL

Okaya Power bagged a contract from state-owned Rajasthan Electronics and Instruments Limited (REIL) for setting up 4,244 multi-standard EV charging stations across the country. This is the second such contract won by the company from REIL in a year. The earlier contract was for the supply, installation and commissioning of over 200 multi-standard EV chargers in all metro cities and major highways across India.

## Green Drive: EESL to set-up 500 more EV charging stations in FY21

Power PSUs' joint venture EESL plans to install at least 500 more electric vehicle (EV) charging stations in the country during fiscal 2020-21. Around 207 charging stations have already been installed across India. Eventually, the company plans to set up 10,000 charging stations by 2023-24 across the country.

# 6. PARTNERSHIPS & JVS

## **Hero Electric to convert Shree Maruti Courier's fleet across 5 cities to electric scooters**

Electric two-wheeler maker, Hero Electric, partnered with Ahmedabad-based Shree Maruti Courier Services Pvt Ltd to convert the latter's fleet across five cities to electric scooters. The partnership is part of a pilot project by the logistics firm across Ahmedabad, New Delhi, Mumbai, Pune, and Chennai. Shree Maruti Courier Services plans to expand this service to 20 cities and add more than 500 E-bikes in future.

## **Ola partners with Siemens for Rs 2,400 crore EV manufacturing facility**

Ride-hailing major Ola partnered with Siemens to leverage the latter's technology at its upcoming EV manufacturing facility in Tamil Nadu. The factory, which will have almost 5,000 robots deployed across various functions, will be artificial intelligence-powered with Ola's proprietary AI Engine and tech stack deeply integrated into every aspect of the manufacturing process. As part of the partnership, Ola will have access to Siemens' integrated 'Digital Twin' design and manufacturing solutions to digitalise and validate product and production ahead of actual operations.

## **cKers Finance partners with OTO Capital for E2W leasing**

cKers Finance, an NBFC focused on financing sustainability and clean energy projects, entered into a debt financing tie-up with OTO Capital for its electric two-wheeler leasing programme. cKers has set up an initial line of INR3 crore for OTO. OTO will use this facility to purchase electric two-wheelers in India, which will then be deployed to OTO customers on flexible leasing models. The minimum tenure for the leasing programme is 12 months. It can be increased up to 36 months.

## **Electric Vehicles: Tata Motors Collaborates With Haryana Renewable Agency**

Tata Motors entered into partnership with Haryana Renewable Agency to deploy EVs in the state of Haryana. The automaker, under the partnership, will deploy 150 Nexon EV cars in the state. The partnership is the outcome of a tender floated by EESL in July 2020 for procurement of 250 electric cars. The tender was won by Tata Motors and Hyundai as per which Hyundai will also be deploying 100 Kona EVs in Haryana.

### eBikeGo ties up with SKS CleanTech for installation of solar powered batteries

The EV mobility solutions provider eBikeGo announced its tie-up with SKS CleanTech to convert its complete fleet to solar energy-charged batteries. Under this partnership, the companies will be installing solar panels in buildings where the vehicles can swap batteries. Installation of Solar panels has started in Mumbai on a pilot basis.

# 7. INVESTMENTS

Table 7.1: Investments in January 2021

Company name	Company type	Deal type	Investor(s)	Deal value (in US\$ Mn)	Details
Simple Energy	Electric Scooter OEM	Equity	Vel Kanniappan and four other investors	Undisclosed	<a href="#">Simple Energy Raises Undisclosed Amount, Plans To Raise Rs 51 Crore To Rs 74 Crore In The Second Quarter Of 2021</a>
Tresmoto	Electric Scooter OEM	Equity	Angel Investor and professional CEO Raaj Kumar	Undisclosed	<a href="#">Shell backed smart EV startup, TresMoto raises additional round of seed funds</a>
Lohum Cleantech	EV Battery Manufacturer	Equity	Baring Private Equity Partners (BPEP)	\$7 Million	<a href="#">EV Battery Startup Lohum Raises \$7 Mn From Baring Private Equity Partners</a>
Gegadyne	EV Battery Manufacturer	Equity	V-Guard	\$5 Million	<a href="#">EV Battery Startup Gegadyne Raises \$5 Mn From V-Guard</a>

# 8. OTHER INTERESTING READS

## **Wardwizard Innovations & Mobility inaugurates new electric two-wheeler manufacturing facility in Vadodara**

Wardwizard Innovations & Mobility inaugurated a new electric two-wheeler manufacturing facility in Vadodara, Gujarat. Built with an investment of close to Rs 45 crore, the plant has a claimed production capacity of over 1 lakh units per year in the first phase in a single shift. In full capacity, it can produce 3-4 lakh units per year. The Company also launched four new electric bikes - Beast, Thunderbolt, Hurricane and Skyline - under the Joy e-bike brand.

## **MG to offer ZS EV for subscription at inaugural price of INR 49,999 per month**

MG Motor India's electric SUV ZS EV is now available for subscription at an inaugural offer of INR 49,999 a month with Zoomcar and ORIX under MG Subscribe. As a part of the tie-up, MG Motor India will leverage Zoomcar's end-to-end technology solution for its vehicle subscription platform called 'MG Subscribe'. ORIX, as its vehicle deployment partner and India's largest shared mobility platform, will make the ZS EV available for subscription. Under the programme, MG ZS EV will come with 12, 24, 18, 30 or 36-month subscription options.

## **Ola Electric begins testing of electric scooter; to be launched very soon**

Bengaluru-based EV manufacturer, Ola Electric, has started testing its electric scooter and soon it will be commercially launched. The electric scooter is being tested on tracks camouflaged in black and white. The scooter is considered to go up to 100 kmph speed and have a range of 100 km in a single charge.

## **OGL, EVEY receive order for 350 electric buses from Pune Mahanagar Parivahan Mahamandal**

Electric bus manufacturer Olectra Greentech (OGL) and its sister concern Evey Trans Private Limited (EVEY) received the letter of award from Pune Mahanagar Parivahan Mahamandal Ltd. for 350 electric buses. The order is under the FAME-II scheme (Faster Adoption and Manufacturing of Electric Vehicles) for supply of 350 electric buses on Gross Cost Contract (GCC) / OPEX model basis for a period of 12 years. Evey Trans will procure these 350 electric buses from Olectra Greentech, which shall be delivered

over a period of 7 months. The maintenance of these buses shall also be undertaken by the company during the contract period.

### **Lt Governor of Andaman & Nicobar Islands flags off 14 electric buses**

Lieutenant Governor of Andaman and Nicobar Islands, Admiral (Retd) D K Joshi flagged-off a fleet of 14 electric buses (e-buses) in the union territory. This is part of the turnkey project for the supply of 40 e-buses and charging stations by NTPC Vidyut Vyapar Nigam (NVVN), a subsidiary of state-run generation utility NTPC. In this regard, NVVN had signed an agreement with Department of Transport of Andaman and Nicobar Islands to deploy the e-buses.

### **Kerala's EV sector revs up as registrations soar 64 per cent in 2020**

Kerala witnessed a 64% increase in EV registrations in 2020 (1,321 EVs) compared with 2019 (468 EVs), according to data from the central road transport and highways ministry. This compares with the 29.9% drop in overall vehicle registrations in the state over the same period. This switch to EVs is due to more brands being available in the market, lower taxes and increased awareness.

### **Electrifying run of Electric Vehicles in Gujarat, 500% rise in registrations**

Registrations of EVs in the state have risen by 500% since 2017. The state had registered 176 vehicles in 2017; the figure jumped to 1,104 in 2020. The registrations of EVs in 2020 in the state were the highest in the past four years. About 37% of the total EVs registered were from Tier II cities and even rural Gujarat.

### **Ampere Electric opens 300th dealership outlet in Panvel, Maharashtra**

Ampere Electric, a wholly-owned electric mobility subsidiary of Greaves Cotton Ltd, opened its 300th dealership outlet in Panvel, Maharashtra. Ampere has added 80 dealership outlets post-unlock expanding its retail network

### **TN govt plan to buy 525 e-buses goes off track**

The Tamil Nadu government's plan to buy 525 electric buses, approved by the Union heavy industries ministry in August 2020, has hit a roadblock. The first two e-buses, which were being operated in Chennai on a

trial basis by Ashok Leyland in 2019, have been grounded without any announcement. The air-conditioned buses that cost Rs 1.5 crore each were being run on Thiruvannamiyur-Central Railway Station and Koyambedu-Broadway routes. However, a month before the lockdown, the bus services were stopped.

### **EV startup Simple Energy plans to invest Rs 45 cr for setting up production facility**

Bengaluru-based EV start-up Simple Energy, which is gearing up to roll out its maiden product (electric scooter) in the first half of 2021, is planning to invest around Rs 45 crore in setting up a production facility near Hosur in Tamil Nadu. The plant will initially have a capacity to produce 50,000 vehicles in the first year of the commissioning.

### **Tesla registers its Indian entity in Bengaluru; appoints three directors**

Palo Alto-based EV manufacturer Tesla Inc has registered its Indian entity in the name of Tesla India Motors And Energy Private Limited in Bengaluru Karnataka, according to documents filed in the Ministry of Corporate Affairs (MCA). According to the information accessed from MCA, the company has currently appointed three directors - David Jon Feinstein, Vaibhav Taneja and Venkatrangam Sreeram. The entity has been classified as a private subsidiary of a foreign company and its authorized share capital is INR 15.00 lakh and the total paid-up capital is INR 1.00 lakh.

### **50% dealers claim electric 2W sales declined post-FAME-II: ICRA survey**

According to 50% of the 16 electric two-wheeler dealers who responded in a nationwide survey conducted by ICRA, sales declined post-FAME-II because of the reduced number of models eligible for subsidy under the policy. During the halfway mark of its three-year tenure till September 30, 2020, the scheme achieved only 2% of its target sales. The minimum localisation requirement and exclusion of lead-acid-based electric two-wheelers from subsidy were the major deterrents.

### **JLR's all-electric SUV I-Pace reaches India for testing and validation**

The first unit of Jaguar Land Rover's electric performance SUV, I-Pace, has landed in India at JNPT, near Mumbai, for extensive testing and validation across the country. It is to be launched in India in February 2021 and is



likely to be priced from INR 1 crore to INR 1.5 crore. The luxury carmaker is expected to start deliveries by March 2021.

### **Mahindra Logistics launches electric last-mile delivery service**

Mahindra Logistics Limited (MLL), an integrated third-party logistics (3PL) service provider announced the launch of its cargo last-mile delivery service under the brand name 'EDel'. MLL entered the new service line of sustainable last-mile logistics for customers in e-commerce, FMCG, and other markets. In Phase 1, EDel is focused on deploying a fleet of 1,000 vehicles. The initial focus will be on 3W cargo applications, and EDel will primarily utilise the Treo Zor EV by Mahindra Electric.

### **JBM officially ventures into EV space forms a new company JBM Ecolife Mobility**

JBM, a Tier-1 supplier of key systems and assemblies to the automotive OEMs, formed a new company, JBM Ecolife Mobility Private Limited, to leverage growth opportunities in the EV segment including e-buses and to expand electric charging infrastructure. The Company will manufacture nine and 12-metre electric buses equipped with fast-charging batteries from Microvast (a Chinese provider of fast-charging battery power systems) which can run up to 300 km daily.

### **Target of selling 10 lakh electric 2-wheelers under FAME-II 'nowhere in sight': SMEV**

As per the Society of Manufacturers of Electric Vehicles (SMEV), with just 25,735 units of high speed electric two-wheelers sold in 2020 against 27,224 units sold in 2019, the ambitious target of generating a sale of 10 lakh such vehicles by March 2022 under FAME-II is nowhere in sight. The actual cumulative sale since January 2019 has been 52,959, however, sale under the scheme has remained only 31,813 units.

### **Hyderabad startup Pure EV's AI tech to auto repair Li-Ion batteries**

Pure EV, the electric vehicle vertical of Indian Institute of Technology - Hyderabad (IIT-H) incubated city startup Pureenergy, developed BaTrics Faraday, an artificial intelligence (AI)-based hardware which can automatically identify and repair defects in Lithium Ion (Li-Ion) batteries of electric vehicles. The AI repair technology will be launched in the first quarter of 2021.

### **Mainstream electric vehicles face speed bumps, close to a dozen vehicles delayed**

The nascent yet fast-evolving mainstream electric vehicles segment in India has hit a major speed bump due to the pandemic with key projects either getting dropped or facing a delay of one to six quarters. Disruptions to research and development and the supply chain, and changes to capital expenditure plans amid the pandemic are causing automakers to delay their projects. Close to a dozen mass-market EVs priced below Rs 10 lakh planned until 2023 are expected to see a delay including a compact sedan and an SUV mooted by Hyundai Motor under its Smart Car project, a premium hatchback and a sub-compact SUV by Tata Motors, the E-XUV 300 and Atom quadricycle by Mahindra & Mahindra, and the Kwid EV by Renault India. On the other hand, models like WagonR EV planned for 2020 by Maruti Suzuki, have altogether been dropped due to higher cost of imports and longer lead time needed to localise the electric vehicle.

### **Mahindra to focus on SUVs, electric versions after ending Ford JV talks**

Mahindra & Mahindra Ltd is developing a new strategy for its automotive business which will focus mainly on large sport-utility vehicles (SUVs) for its core India market in the short term and their electric version in the medium term. The Company plans to invest about 30 billion rupees (\$410.68 million), earlier earmarked for its now called-off automotive JV with Ford, in electric vehicles.

### **PMPML to get 150 more electric buses in 2021**

The Pune Mahanagar Parivahan Mahamandal Limited (PMPML) will have a fleet of 650 electric buses by 2022, out of which 150 of 12 metre length each are expected to join the fleet between April and December in 2021. Each of the 150 buses, to be procured by PMPML under the the second phase of the Faster Adaption and Manufacturing of Electric Vehicles (FAME), will carry a subsidy of Rs55 lakh. Olectra, a Hyderabad-based company, has been given the work order for the new buses.

# 9. GLOBAL MARKET UPDATES

## General Motors sets goal of going largely electric by 2035

General Motors (GM) has set a goal of making the vast majority of the vehicles, including all new light-duty vehicles, it produces electric by 2035, and the entire company carbon neutral, including operations, by 2040. The Company will source 100% renewable energy to power its U.S. sites by 2030 and global sites by 2035.

## Nissan says all new vehicle offerings in key markets to be electrified by early 2030s

Nissan Motor Co said that all its "new vehicle offerings" in key markets would be electrified by the early 2030s, as part of the Japanese automaker's efforts to achieve carbon neutrality by 2050. The plan covers markets in Japan, China, the United States and Europe. The Company's goal is in sync with Japan's goal of replacing new gasoline-powered vehicles with EVs by mid-2030s to help achieve 2050 carbon-neutral goal.

## Mercedes unveils electric compact SUV in bid to outdo Tesla

Daimler AG's Mercedes-Benz unveiled the EQA, a new electric compact SUV as part of plans to take on rival Tesla Inc and offer more emission-free vehicles to consumers to meet targets in Europe and China. The SUV, which will go on sale in Europe on Feb 4, will initially have a range of 426 kilometres (265 miles), with a 500km model coming later.

## GM teams up with Microsoft as electric car market revs

General Motors entered into an alliance with Microsoft on its Cruise autonomous driving venture. Through the alliance, Microsoft will sync GM EVs with Azure computing and artificial intelligence capabilities and also provide hardware and software engineering support to GM.

## Volkswagen triples electric car sales ahead of climate rules

Automaker Volkswagen tripled sales of battery-only cars in 2020 as its new electric compact ID.3 came on the market ahead of tough new European Union limits on auto emissions. The brand sold 134,000 battery-powered cars in 2020, up from 45,000 in 2019. Europe's push into electric cars is gathering speed despite the pandemic. Germany, long a laggard in adopting electric vehicles, saw more people buy electrics in December

than those who opted for previously dominant diesel vehicles.

### **China and electric cars offer automakers hope after a dire 2020**

Sales of luxury cars in China and electric drives in Europe were the two bright spots for European automakers in a 2020 blighted by the COVID-19 pandemic. China's auto industry rebounded swiftly following its shutdown to tackle the COVID-19 outbreak, while in Europe manufacturers' battle to meet tough new emissions targets helped EVs move from the margins to the mainstream. While Volkswagen (VW) brand sales fell nearly 10% in China, its luxury Audi brand's full-year sales in China rose 5.4%. In addition, VW witnessed global sales of fully-electric cars jump 197% from 2019 to 134,000 in 2020. Similarly, while global sales fell 7.5% for Daimler's Mercedes-Benz brand, sales in China increased by 11.7%. While Renault's group sales fell more than 21%, its EV sales in Europe leapt more than 101%.

### **Nio launches first electric sedan model as Tesla delivers China-built SUV**

Chinese EV maker Nio Inc launched its first sedan model, ET7, at an event in the western city of Chengdu. Nio's new battery technology will give the ET7 a drive range of over 1,000 kilometres (621 miles) between charges. The starting price will be 378,000 yuan (\$58,378) for the car without the battery pack, one of the most expensive EV components, which can then be leased from the company. With the battery pack, the starting price is 448,000 yuan.

### **Sales of battery-electric vehicles in Germany triple in 2020**

Sales of battery-electric vehicles in Germany tripled to more than 194,000 units in 2020 owing to the appeal of a more diversified product offering and of more reliable technology. Battery-electric vehicles made up 1.2% of all registered passenger cars in Germany at the end of 2020, up from 0.5% in 2019. Vehicles with full or partial electric propulsion reached a market share of 22% in the fourth quarter of 2020 and has made the German government confident of reaching its goal of having 7 million to 10 million registered EVs on German roads by 2030.

### **Electric cars rise to record 54% market share in Norway in 2020**

The sale of electric cars in Norway overtook those powered by petrol, diesel and hybrid engines in 2020, with German auto-maker Volkswagen replacing Tesla as the top battery-vehicle producer. The battery electric vehicles (BEV) made up 54.3% of all new cars sold in the Nordic country in 2020, a global record, up from 42.4% in 2019 and from a mere 1% of the

overall market in 2010. Seeking to become the first nation to end the sale of petrol and diesel cars by 2025, oil-producing Norway exempts fully electric vehicles from taxes imposed on those relying on fossil fuels.

### **Enel pens deal with China's Weltmeister to boost electric car exports**

Italian utility Enel inked a deal with Chinese-owned electric car brand Weltmeister to develop the brand's charging infrastructure globally and help boost exports. Enel X, Enel's advanced energy services unit will offer smart charging solutions and one-stop after-sales services for Weltmeister products exported to overseas markets including Europe, China, South East Asia, the Middle East, and South America.



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