



EDUCATE | AWARE | PROMOTE

May 2024



Battery Recycling & Repurposing

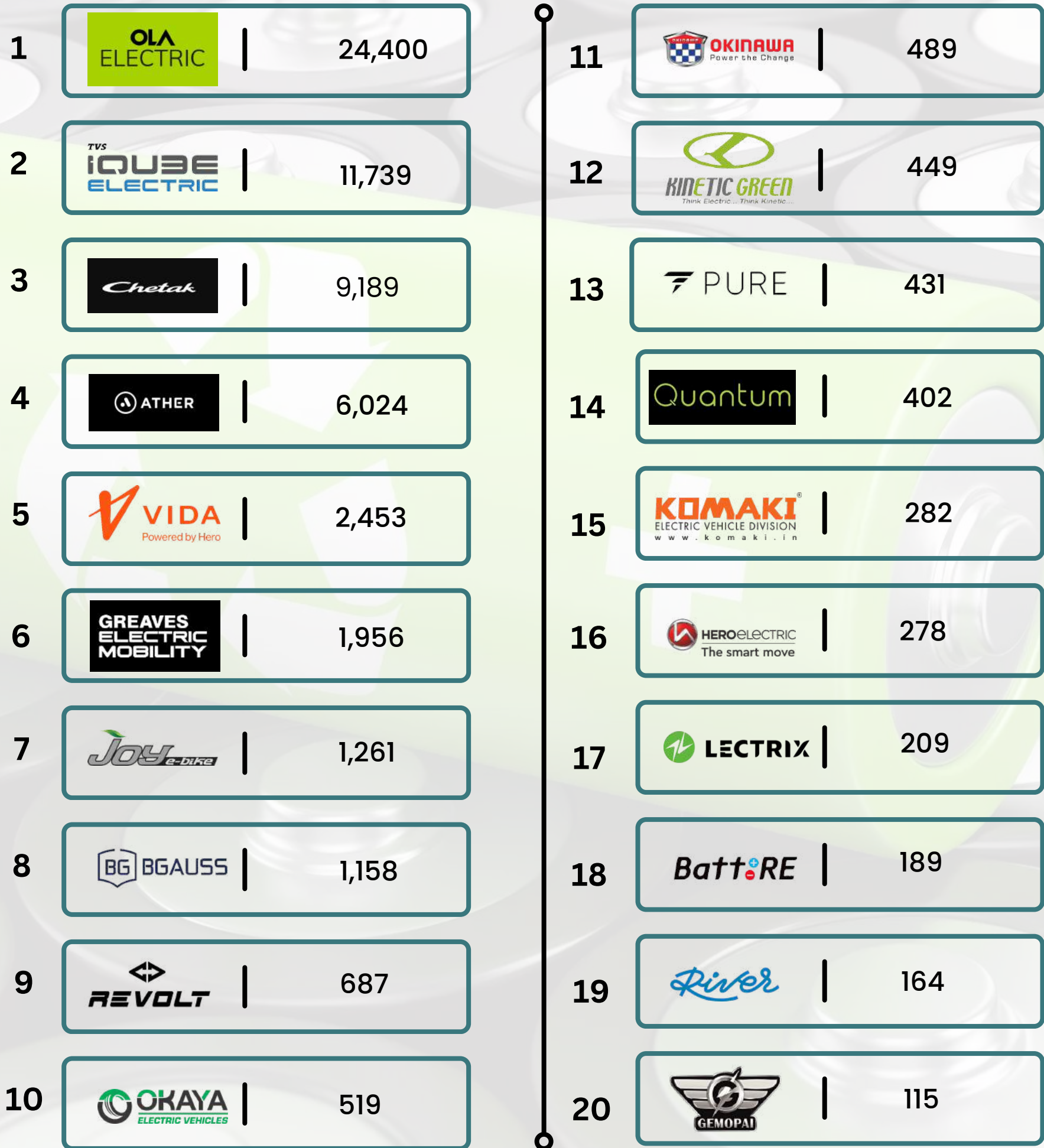
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Top EV 2W Manufacturers in India

May 2024 Sales Data



Top EV 3W Manufacturers in India

May 2024 Sales Data

1	mahindra LAST MILE MOBILITY	4,063	11	ATUL	940
2	yc Solving for the best!	3,689	12	उस्ता	930
3	MAYURI	2,474	13	JSA THREE WHEELERS	906
4	BAJAJ BAJAJ AUTO LTD.	2,358	14	ALLFINE	852
5	CITY LIFE Electric Vehicles	1,582	15	SKS Arzoo	851
6	PIAGGIO	1,379	16	KHALSA ^{EV}	823
7	Panther MOST TRUSTED EV BRAND	1,325	17	VB VANDE BHARAT ELECTRIC VEHICLE	786
8	Mini Metro TM	1,296	18	TERRA MOTORS	720
9	SAARTHI ride with trust...	993	19	JEZZA TM	653
10	BADSHAH	940	20	ZEOPPLUS	545

EV Rockstar

Mr. A L N Rao

Consultant Circularity &
Sustainability

E-Waste/Plastic/Li-ion Battery/Critical
Minerals



Could you share your journey and how you became involved in the recycling sector? What motivated you to focus on sustainable solutions?

From being an electronics retailer offering electronic products and services thru a organised retail chain of stores in india, switched to services industry – offering refurbishing used mobile phones and thereby recycling services for multiple electronic products. Since the 1st set of Ewaste rules were announced in 2012, it was challenging to do business in Ewaste industry in India.

With no awareness, lack of interest by relevant stakeholders to adhere to environment friendly disposals, ewaste definitions not clear, no accountability and dominance of kabbadiwala's made ewaste recycling industry survival very difficult.

Ewaste management and handling rules in 2016 was announced alongwith Extended producer responsibility(EPR) on "Polluters pay Principle".

A new lifeline was given to the Ewaste recycling industry and thereby the industry grew phenomenally.Since ewaste was collected and recycled continuously, environment friendly solutions leading to sustainability were discussed and implemented at basic levels.

As industry grew,so were the demands of multiple stakeholders to offer sustainable solutions. With the advent of such challenges, technical knowhow, R&D, machinery and materials understanding became very important and were the steps towards sustainability

E-Waste: India's rapid technological advancements have led to a significant increase in e-waste, which poses environmental and health risks. Huge opportunity was available to pioneer sustainable recycling and disposal solutions to transform e-waste into valuable resources.

Lithium-Ion Batteries: The Indian government is taking proactive steps to establish a Li-ion battery recycling ecosystem, enforcing Extended Producer Responsibility (EPR) to make producers accountable for battery collection and recycling. This is crucial as India expands its renewable energy infrastructure.

Plastics: India is adopting collaborative solutions to tackle plastic waste, with initiatives aimed at reducing the use of problematic plastics, fostering collaboration across the value chain, and enabling a transition to a circular plastics economy.

Critical Minerals: Ensuring sustainable and responsible supply chains for critical minerals is essential for India's clean energy transitions. Policies are being crafted to promote sustainable mining practices and establish self-reliance in critical minerals

These initiatives reflect India's commitment to environmental sustainability and the efficient use of resources in line with global standards and the country's development goals.

How do you envision the recycling industry contributing to India's circular economy? What role can plastic, polymer, solar, and lithium recycling play in achieving this goal?

The recycling industry is pivotal to India's transition towards a circular economy, which emphasizes the reduction, reuse, and recycling of materials. Here's how different recycling sectors can contribute:

- **Plastic Recycling:** By converting waste into reusable materials, plastic recycling can significantly reduce the need for virgin plastic production, which is energy-intensive. It can also help in minimizing environmental pollution and conserving natural resources.
- **Polymer Recycling:** Advanced recycling technologies enable the use of mixed waste streams and allow for more thorough purification, facilitating an unlimited number of recycle loops. This aligns with the circular economy's goal of keeping materials in use for as long as possible.
- **Solar Recycling:** Recycling in the solar industry can help recover valuable materials like silicon, silver, and aluminium from solar panels. This not only reduces waste but also decreases the dependency on raw material imports for domestic solar module manufacturing.
- **Lithium Recycling:** Given the surge in demand for lithium-ion batteries, recycling these batteries is essential to recover precious metals and reduce the environmental impact of mining new materials. It supports the circular economy by enabling internal material flows and reducing resource consumption associated with the production of primary raw materials.

Overall, these recycling efforts can help India achieve a more sustainable and self-reliant economy, with reduced waste and lower dependency on raw material imports. The recycling industry's growth is expected to reach a market size worth approximately USD 20 billion by 2030, indicating its significant role in driving India's circular economy agenda

What challenges does the Indian recycling industry face, and how are Indian companies addressing them? Are there any innovative technologies or processes that you believe will revolutionize recycling?

The Indian recycling industry faces several challenges, including:

- **Infrastructure Deficit:** There is a significant lack of waste collection and recycling facilities.
- **R&D Labs :** sufficient high quality testing labs with sampling facilities not available.

- **Inefficient Collection Systems:** The existing systems for waste collection are not efficient enough to handle the volume of waste generated.
- **Low Consumer Awareness:** Many consumers are not fully aware of the importance of recycling and proper waste segregation.
- **Inadequate Policy Implementation:** Policies related to waste management and recycling are not always implemented effectively.
- **Technological Gaps:** There is a need for more advanced technologies in the recycling process.
- **Competition with Low-cost Virgin Plastic:** Recycled materials often compete with low-cost virgin plastics, which can be a disincentive for recycling.
- **Global Price Fluctuations:** The recycling industry is also affected by global price fluctuations, which can impact profitability.

Indian companies are addressing these challenges through various initiatives:

- **Extended Producer Responsibility (EPR) schemes,** where producers are responsible for the lifecycle of their products, including waste disposal.
- **Battery Waste Management Rule,** which regulates the disposal of batteries and promotes their recycling, refining and recover commodities and critical minerals.
- **National Resource Efficiency Policy (NREP),** focusing on sustainable production, consumption, waste management, and recycling of waste materials.
- **Swachh Bharat Abhiyan (Clean India Mission),** which promotes proper waste management and recycling.

In terms of innovative technologies that could revolutionize recycling:

- **Indigenously designed technologies for high yield, low cost and modular plants** are developed currently by recycler's
- **Multi-sensor-based AI and blockchain technology** for plastic waste recycling management.
- **Robotic waste sorting using artificial intelligence and machine learning** to improve waste separation efficiency.
- **Biodegradable and compostable materials development** to reduce waste generation.
- **Smart Waste Bins** that use AI-based object recognition to automatically sort recyclables.
- **Waste Level Sensors and AI Recycling Robots** to optimize waste collection and processing.

These technologies and processes have the potential to significantly improve the efficiency and effectiveness of recycling, leading to a more sustainable future.

How important is government policy in promoting recycling practices? What steps can individuals and businesses take to raise awareness about responsible recycling?

The Indian government's policy plays a crucial role in promoting recycling practices. Initiatives like the Extended Producer Responsibility (EPR) scheme, Battery Waste Management Rule, and the National Resource Efficiency Policy (NREP) are designed to enhance resource efficiency and promote a circular economy. The Swachh Bharat Abhiyan has been instrumental in increasing public awareness about waste management and encouraging sustainable practices.

Individuals and businesses can take several steps to raise awareness about responsible recycling:

- **Place Recycling Bins:** Position recycling bins in public spaces to encourage proper disposal of recyclable waste.
- **Educate the Community:** Use social media and other platforms to inform about recycling programs and share success metrics.
- **Implement Volume-Based Waste Disposal:** Motivate residents to recycle by implementing a system where they pay less for disposing less waste.
- **Target Non-Recyclers:** Identify and address the reasons why some community members do not recycle, and use targeted messaging to encourage them.
- **Set Goals and Benefits:** Establish clear recycling goals and communicate the benefits and successes to the community.
- **Focus on Schools:** Educate young students about recycling to install these values from an early age.
- **Adjust Collection Techniques:** Optimize waste collection routes and consider adding new materials to the recycling program. By implementing these strategies, individuals and businesses can significantly contribute to a more sustainable and environmentally friendly recycling system

What advice you would like to give to someone who is in their 2nd/3rd/4th year of engineering and looking at the energy market as a potential career option also what sort of benefits they can get if they join the Indian recycling industry as their first job?

For engineering students eyeing the energy market, here are some pieces of advice:

1. **Refine Soft Skills:** Engineering isn't just about technical know-how; communication and teamwork are equally important.
2. **Stay Flexible:** Be open to learning and adapting to new technologies and trends in the circularity and sustainability sector.
3. **Global Opportunities:** The energy sector offers global career opportunities, so be prepared to possibly work abroad, learn, gain good knowledge and come back to India and provide your expertise.
4. **Understand Business:** Grasp how business decisions are influenced by engineering costs and try to add value commensurate with your cost to the firm.
5. **Continuous Learning:** Seek diverse assignments and make the most of company-paid education benefits and training programs.

Joining the Indian recycling industry can offer the following benefits:

1. **Job Creation:** The recycling industry has the potential to create numerous jobs.
2. **Environmental Impact:** Working in this sector contributes to reducing waste's environmental impact.
3. **Economic Contribution:** The industry plays a significant role in the country's economic growth.
4. **Sustainability:** It's an opportunity to be part of sustainable practices and circular economy initiatives.

These insights should help guide your career decisions towards a fulfilling and impactful journey in the energy and recycling sectors

Milestones

Altigreen Marks Milestone: 50 Million Kilometers Covered, 5300 Tonnes Of CO2 Saved



With a fleet of approximately 5000 vehicles traversing roads registered in over 173 RTO jurisdictions nationwide, Altigreen has reached an impressive milestone of covering 50 million kilometers, resulting in a noteworthy reduction of 5300 metric tonnes of eCO2 emissions. This achievement underscores Altigreen's steadfast dedication to fostering a sustainable and cleaner future for India.

India Unveils Inaugural Electric Flying Taxi Prototype: A Milestone In Sustainable Air Mobility



Developed by the ePlane Company, an initiative housed within the esteemed Indian Institute of Technology (IIT) Madras, the prototype is slated for operational readiness by the coming year, showcasing India's strides in pioneering transportation solutions.

The ePlane e200, a two-seater aircraft crafted by the ePlane Company, showcases a travel range of 200 kilometers, rendering it well-suited for intra-city travel and cargo transportation.

NSE Indices Introduces Nifty EV & New Age Automotive Index



NSE Indices Limited, the index services subsidiary of the National Stock Exchange (NSE), has introduced a new thematic index called the Nifty EV & New Age Automotive Index. This innovative index is designed to track the performance of companies involved in the electric vehicle (EV) ecosystem or those engaged in the development of new age automotive vehicles and related technologies.

Transforming Mobility: Battery Smart Achieves 1000th Swap Station Milestone In Delhi

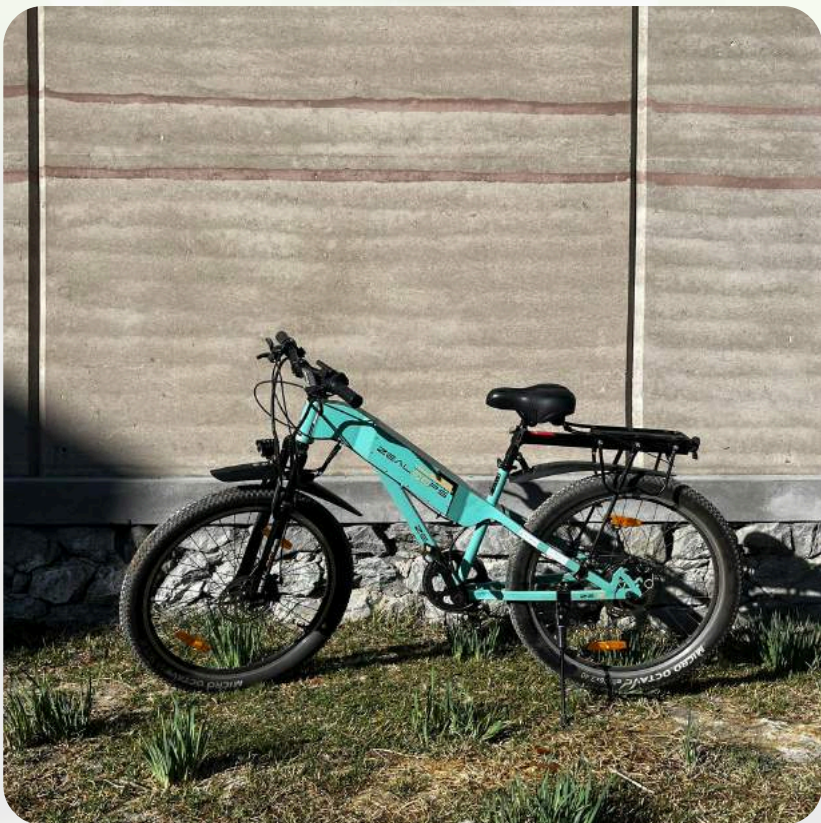


Battery Smart celebrated the inauguration of its 1000th swap station in Delhi today. This milestone underscores its dedication to establishing the most extensive network of swap stations, ensuring that EV users are always within a one-kilometer radius of a station, with no waiting time, according to the company.

Lithium Battery Recycling Companies in India



ZEALOOPS





ZE ECO



Back to Basics

Contact Zealooops

New Product Launch



Tata Motors Introduces Ace EV 1000, Redefining Last-Mile Mobility with Enhanced Payload and Range

Powered by the EVOGEN powertrain, the Ace EV offers an unparalleled driving experience with a 7-year battery warranty and a 5-year comprehensive maintenance package. Its advanced battery cooling system and regenerative braking system ensure safe, all-weather operations while boosting the driving range.

TVS Motor Company Expands TVS iQube Portfolio with New Variants, Making Electric Mobility Accessible to All

TVS Motor Company launched a new variant of the TVS iQube with a 2.2 kWh battery, in line with its commitment to providing sustainable mobility options. The TVS iQube ST will now be available in two variants, featuring 3.4 kWh and 5.1 kWh batteries, making it the largest battery pack in its segment.



GT Force Unveils New Range of Electric Two-Wheelers, Redefining Urban Commuting



The new range includes four distinct models: GT Vegas, GT Ryd Plus, GT One Plus Pro, and GT Drive Pro. Each model is designed to offer unparalleled performance and efficiency, coupled with cutting-edge features to enhance the urban commuting experience.

Exicom Unveils India's Fastest DC Chargers, Pioneering Next-Gen EV Charging Experience

Exicom, a prominent provider of EV charging and Critical Power solutions, has launched Harmony Gen 1.5 DC Fast Chargers. These chargers, boasting speeds up to 400kW, represent a milestone in EV charging technology, promising unmatched efficiency, user-centric design, and enhanced reliability.



Elevating Urban Commuting: Jitendra EV Launches PRIMO S And PRIMO PLUS E-Scooters



Jitendra EV has introduced fresh editions of its PRIMO electric scooter series, namely the PRIMO S and PRIMO PLUS. Priced from INR 79,999 both models boast an array of advanced features.



Kia Unveils the EV3: A Revolutionary Compact EV SUV Setting New Standards

Based on the Electric Global Modular Platform (E-GMP), the EV3 is available in Standard and Long Range variants, featuring a 58.3kWh and 81.4kWh battery, respectively. With a driving range of up to 600km (WLTP) and ultra-fast charging capability, the EV3 addresses common concerns about electric vehicles, making it an attractive option for those considering a switch to electric mobility.

Introducing Thunder Plus: Fujiyama's Next-Gen Electric Scooter For Indian Roads

Fujiyama has introduced the Thunder Plus electric scooter. Available in two versions, Thunder VLRA and Thunder LI, the company caters to both the high and low-speed segments of the market.



New MINI Cooper SE: A Game Changer in Electric Mobility with 402 km Range



MINI has unveiled the new MINI Cooper SE, boasting an impressive range of up to 402 kilometers according to the WLTP test cycle. This all-electric vehicle promises a long and locally emission-free driving experience, all while maintaining the brand's iconic go-kart feeling.

Bounce Infinity Launches Ground breaking Battery-Swappable E1X Scooter In India

The Infinity E1X is priced between INR 55,000 to INR 59,000 ex-showroom and features an energy cost of just INR 1 to INR 1.5 per km, depending on usage and the swapping operator. This will significantly lower the acquisition cost and provide a very low running cost, the release stated.



Zelio Ebikes Unveils GRACY Series of Low-Speed Electric Two-Wheelers



Zelio Ebikes has launched its GRACY series, a new lineup of low-speed EV two-wheelers. The series includes the GRACYi, GRACY Pro, and GRACY+ models, with prices ranging from INR 59,273 to 83,073 ex-showroom. This launch follows the inauguration of Zelio's new manufacturing unit in Ladwa, Hisar, Haryana, which has an annual production capacity of 150,000 vehicles.

BMW Rolls Out First-Ever All-Electric i5 Touring



Leading the charge is the BMW i5 M60 xDrive Touring, boasting up to 601 hp and a range of 441 to 503 kilometers (274 to 313 miles) according to the WLTP cycle. Its sibling, the BMW i5 eDrive40 Touring, offers up to 340 hp and a range of 483 to 560 kilometers (300 to 348 miles).

Revolutionizing Urban Mobility: Introducing Odysse Electric's SNAP High-Speed Scooter And E2 Low-Speed Model

Odysse Electric released of two groundbreaking models: the SNAP High-Speed Scooter and the E2 Low-Speed Model. The SNAP high-speed scooter offers an exhilarating riding experience while maintaining a focus on sustainability. E2 Low-Speed Model is designed for urban commuters prioritizing safety and sustainability.



Revolutionizing Urban Mobility: Introducing Virtus Motors BH1M Electric Two-Wheeler



Virtus Motors revealed its latest offering, the BH1M electric two-wheeler, during an Expo at Pragati Maidan, New Delhi from April 19th to 21st, 2024. Tailored for B2B users, livelihood-oriented individuals, and gig economy workers, the BH1M is an economical and agile electric two-wheeler ideally suited for gig workers, local deliveries, and urban cargo transport.

Okaya EV Introduces Ferrato Disruptor: Revolutionizing Electric Sports Bikes

Okaya EV unveiled its new premium subsidiary brand, Ferrato, in March this year. Now, the indigenous EV startup has introduced the inaugural model under this brand, named Disruptor. Priced at Rs 1.60 lakh (ex-showroom), deliveries for the Ferrato Disruptor are set to commence from August.





iVOOMi Debuts JeetX ZE E-Scooter With Extended Range And Enhanced Performance

iVOOMi, a prominent player in the electric vehicle sector, has introduced the JeetX ZE e-scooter, starting at a competitive price of INR 79,999. The JeetX ZE is meticulously designed and developed in India, with over 18 months of rigorous research and development and extensive testing covering more than 100,000 kilometers.

Cygni launches Sodium-ion battery packs for e-2Ws

Hyderabad-based Cygni Energy Private Limited has announced the release of a new sodium ion battery pack specifically designed for electric 2W. This innovative product is ready for certification and aims to enhance the performance and reliability of electric vehicles.



The global battery recycling market, which includes lithium-ion batteries, will reach approximately USD 17.08 billion by 2030, growing at a compound annual growth rate (CAGR) of 37.6% from 2024 to 2030

Government initiatives and schemes implemented that help the battery recycling industry in India

Author: M. Prassann Daphal

CEO: Recyclekaro

Recyclekaro is a leading Indian lithium battery recycler with a focus on environmental responsibility. They utilize hydrometallurgy for recycling most lithium-ion batteries and are expanding their capabilities with a plasma furnace to handle LiFePO4 batteries. The company is committed to a circular economy by diverting waste from landfills and recovering valuable materials for battery production. The Zero Discharge Facility and use of MEE technology minimize water usage and environmental impact. Recyclekaro actively promotes sustainability through practices like increasing greenery and adopting renewable energy. Recyclekaro is one of 4 registered lithium-ion battery recyclers on India's EPR portal. 90% metal extraction efficiency from scrap batteries. Purity levels exceeding 99% for recovered materials.



In recent years, India has witnessed a surge in the adoption of electric vehicles (EVs) and electronic devices, leading to a proportional increase in battery consumption. Recognizing the environmental challenges posed by battery waste and the potential of recycling to mitigate them, the Indian government has implemented various initiatives and schemes to support and boost the battery recycling industry. These measures not only address environmental concerns but also promote sustainable development and economic growth.

One of the key initiatives is the National E-Mobility Programme launched by the Ministry of Power in 2018. This program aims to accelerate the adoption of EVs in the country and includes provisions for the establishment of charging infrastructure and battery-swapping stations. As EV adoption increases, so does the need for effective battery recycling to manage end-of-life batteries.

The program thus indirectly supports the battery recycling industry by creating a demand for recycled materials. Furthermore, the Ministry of New and Renewable Energy (MNRE) introduced the Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India (FAME India) scheme. Under this scheme, financial incentives are provided to EV manufacturers and buyers to promote the adoption of EVs. Additionally, the FAME India scheme supports the setting up of EV charging infrastructure, which complements the efforts to promote battery recycling.

The government has also introduced policies to regulate the handling and disposal of electronic waste (e-waste), which includes batteries. The E-Waste (Management) Rules, 2016 mandate producers to take back and recycle e-waste generated from their products. This Extended Producer Responsibility (EPR) framework encourages manufacturers to design products with recycling in mind and invest in recycling infrastructure. As batteries constitute a significant portion of e-waste, these regulations indirectly support the battery recycling industry.

Moreover, the Ministry of Environment, Forest and Climate Change (MoEFCC) launched the Green Skill Development Programme (GSDP) to train youth in various aspects of environmental conservation, including e-waste management and recycling. By building a skilled workforce, the government ensures the availability of trained personnel for the battery recycling industry, addressing the sector's human resource needs.

In addition to these national initiatives, several state governments have also taken proactive steps to promote battery recycling.

For instance, the Government of Karnataka launched the Karnataka Electric Vehicle & Energy Storage Policy 2017, which offers incentives and subsidies for EV and battery manufacturing, recycling, and research and development activities. Similarly, the Government of Maharashtra announced the Maharashtra Electric Vehicle Policy 2018, which includes provisions for battery recycling and disposal.

Furthermore, the Indian government has been actively promoting research and development in battery technologies and recycling processes through various funding schemes and collaborations with research institutions and industry partners. These efforts aim to improve the efficiency and sustainability of battery recycling processes, making them economically viable and environmentally friendly.

Undoubtedly these government initiatives and schemes play a crucial role in driving the growth of the battery recycling industry in India. By creating a conducive regulatory environment, providing financial incentives, promoting skill development, and supporting research and development, the government lays the foundation for a sustainable and thriving battery recycling ecosystem. As India strives towards its sustainability goals, the battery recycling industry is poised to play a significant role in achieving a greener and cleaner future.

Recycling Technologies

- **Hydrometallurgy:** This is Recyclekaro's primary method for lithium-ion battery recycling. It uses aqueous solutions to extract valuable metals from the battery materials.
- **Plasma Furnace:** Recyclekaro is investing in a plasma furnace for Phase I of its expansion. This technology uses extremely high temperatures (over 5000°C) to break down even high melting point materials like Lithium iron phosphate (LiFePO₄) batteries.

Environmental Sustainability related implementations

- **Zero Discharge Facility (ZDF):** Recyclekaro employs a multi-pronged approach to minimize waste. They treat wastewater for reuse and convert sludge into usable byproducts.
- **Multiple Effect Evaporator (MEE):** This technology efficiently concentrates solutions during the recycling process, reducing energy consumption and water usage.

- **Renewable Energy:** Recyclekaro plans to increase its adoption of solar panels to reduce reliance on fossil fuels.
- **Greenery:** A significant portion of their 20-acre facility is covered in greenery, promoting a sustainable environment.



Funding and Investment

- **Mobility and Energy Solutions Startup Matel Secures \$4 Million Series A Funding from Transition VC and Gruhas**

Matel, a homegrown mobility and energy solutions company, has secured \$4 million in a Series A funding round led by Transition VC. The round also included investments from Gruhas and Haresh Abichandani, the founder of Millenium Semiconductor.



- **BEENEXT Leads \$2 Million Pre-Seed Investment in ProsParity to Transform Electric Vehicle Financing in India**

ProsParity, a fintech platform revolutionizing credit distribution in the electric mobility sector, has secured \$2 million in pre-seed funding from a consortium of global institutional investors, including BEENEXT, Sparrow Capital, All In Capital, DeVC, and Huddle Ventures.



- **Mahindra & Mahindra Ltd. Pumps Rs. 12,000 Cr. Into MEAL For EV Expansion**

Mahindra & Mahindra Ltd., a leading Indian automaker, has announced a massive investment of ₹12,000 crore (US\$1.5 billion) in a new subsidiary, Mahindra Electric Automobile Limited (MEAL). MEAL will focus on the development and production of electric vehicles, a rapidly growing segment of the automotive industry.



- **Zypp Electric Secures \$15 Million in Series C1 Funding, Plans Major Expansion**

Zypp Electric, India's leading EV-as-a-service platform, has successfully launched its Series C funding round, raising \$15 million. This round was spearheaded by Japanese major ENEOS. The Series C1 funding includes \$15 million in equity, part of an ongoing \$50 million round divided into \$40 million in equity and \$10 million in debt.



- **CHARGE ZONE Secures \$19 Million Investment to Accelerate Expansion of EV Charging Network in India**

CHARGE ZONE announced a significant milestone with a \$19 million commitment from British International Investment (BII), a UK-based development finance institution.



- **Atul Greentech's Electric Three-Wheeler Expansion Fueled By Rs. 32.50 Crore Funding**

Atul Greentech Private Limited successfully raised Rs. 32.50 crore (\$4.1 million) through various fundraising endeavors. This financing has led to the company being valued at Rs. 950 crore (\$121.3 million).



- **Tube Investments' TI Clean Mobility To Secure Rs 580 Crore From GEF Capital Partners**

Tube Investments of India (TII), a subsidiary of the Murugappa Group, announced on Monday that its division TI Clean Mobility has entered into a definitive agreement to secure Rs 580 crore from GEF Capital Partners LLC, a private equity firm.



- **SMBC Provides Green Financing Of INR 300 Crore For GreenCell Mobility's UP Electric Bus Project**

GreenCell Mobility, a leader in electric mass transportation, has secured over INR 300 crore in Green Financing from Sumitomo Mitsui Banking Corporation (SMBC) of Japan for its electric bus initiative in Uttar Pradesh.



- **Indian Ministry Of Heavy Industries Backs Creatara With INR 3.9 Crores Grant**

The Ministry of Heavy Industries has granted Creatara, an innovative startup in the electric two-wheeler sector, INR 3.9 crores under the Capital Goods Scheme to develop indigenous technology.



- **Euler Motors closes Series C Funding round, raises additional INR 200 Crores**

Euler Motors, one of the leading manufacturers of electric commercial vehicles, has closed its Series C funding round by raising an additional Rs 200 crore by internal investors which include British International Investment, UK's development finance institution and impact investor, Blume Ventures



- **Exedy to Invest in OMEGA SEIKI to develop EV's with Exedy's proprietary drivetrain tech**

EXEDY Co., Ltd. announced a strategic investment in OMEGA SEIKI Pvt. Ltd., an Indian firm renowned for its electric mobility solutions. This collaboration is set to develop a cutting-edge electric vehicle (EV) incorporating EXEDY's proprietary electric drive unit technology, which includes an advanced motor and a continuously variable transmission (CVT) system.



- **Relux Electric secures INR 250 crore project funding to expand charging network on highways**

Relux Electric's Charging Station Expansion Gets INR 250 Crore Boost. Relux Electric, a charging stations company, has secured INR 250 crore in project funding from a consortium of private real estate and infrastructure investors



Joint Ventures and Partnerships

- **Kerala's chargeMOD Collaborates with A Plus Charge to Propel EV Charging Infrastructure in North East India**

Kerala's energy tech startup chargeMOD has joined forces with A Plus Charge, a Guwahati-based EV charging infrastructure company, to deploy over 1000 advanced charging stations across North East India. This strategic partnership aims to bolster electric vehicle adoption and sustainability in the region.

- **Roadcast and Mufin Green Finance Collaborate to Revolutionize Electric Vehicle Leasing in India**

Roadcast, a leading SaaS-based logistics automation platform in India, has announced a partnership with Mufin Green Finance, the country's first listed NBFC dedicated to electric vehicle (EV) financing.

- **Motovolt Mobility Partners with FuturElectra to Deploy 2,000 Electric Scooters in India**

Motovolt Mobility, an e-mobility brand in India, has teamed up with FuturElectra to roll out 2,000 of its flagship M7 electric scooters. This collaboration marks a significant stride in advancing sustainable transportation solutions across India.

- **ZEVO and Zen Mobility Partner to Revolutionize Last-Mile Deliveries in India**

ZEVO, a tech-enabled EV mobility platform, has announced a strategic partnership with Zen Mobility, a prominent Indian electric vehicle OEM. The collaboration aims to enhance delivery efficiency and reliability, particularly for services like Zomato and Swiggy, by deploying Zen Mobility's innovative electric vehicles.

- **Citroën And OHM E Logistics Join Forces To Revolutionize Indian Mobility With ë-C3 EVs**

Citroën, the renowned French automaker, has inked a memorandum of understanding (MoU) with OHM E Logistics, a prominent logistics firm in India, to introduce 1,000 Citroën ë-C3 electric vehicles (EVs) into OHM's electric shared mobility services gradually. Initially, 120 Citroën ë-C3 vehicles will be deployed in Hyderabad as part of the first fleet induction phase.

- **MG's Strategic Partnership With Vertelo To Supply 3,000 EVs And Enhance Charging Facilities**

MG (Morris Garages), a British automobile brand with a century-long legacy, has signed a memorandum of understanding (MoU) with Vertelo, an integrated fleet electrification platform managed by Macquarie and funded by the Green Climate Fund.

- **Neuron Energy Partners with Hexall Motors for Groundbreaking Double Front Wheel Electric Vehicle**

Neuron Energy, a leading manufacturer of lithium-ion batteries for electric two-wheelers and three-wheelers, has announced a strategic partnership with Hexall Motors. This collaboration marks a significant milestone in the electric vehicle (EV) industry, featuring the launch of Hexall Motors' innovative L5 category vehicle with a patented double front wheel design, the first of its kind in the world.

- **Incharz And 3ECO Partner To Establish Nationwide EV Charging Stations For Cargo Vehicles**

Incharz, an EV charge point operator, has entered into a Memorandum of Understanding (MoU) with 3ECO, a producer of L-3 and L-5 cargo vehicles and an EV cargo fleet operator, to establish exclusive EV charging stations for 3ECO's fleet throughout India. This initiative aims to create a nationwide EV charging network, strategically positioned to meet the needs of 3ECO's vehicles.

- **Lectrix EV Partners with Jumppers to Electrify India's Last-Mile Delivery with 500 Electric Vehicles**

In a groundbreaking move towards sustainable logistics, Lectrix EV, a leading name in India's electric two-wheeler sector, has announced a strategic partnership with FYC TECH PVT LTD, known as Jumppers. This collaboration will see Lectrix EV supply 500 electric vehicles to Jumppers, significantly bolstering their capacity to meet the surging demand for eco-friendly delivery services.

- **Quantum Energy and Green Drive Mobility Join Forces to Propel EV Adoption in Last-Mile Delivery**

Quantum Energy Limited, a prominent electric vehicle (EV) original equipment manufacturer (OEM), has announced a strategic partnership with Green Drive Mobility, a leading innovator in electric mobility solutions. This collaboration marks a pivotal step in accelerating the adoption of electric vehicles for last-mile delivery and connectivity services across India.

- **Kia Partners with Map My India to Revolutionize Navigation Experience for Customers**

Kia has announced a collaboration with Map My India. This partnership seeks to offer a cutting-edge, smart navigation solution integrated with My Kia and Kia Connect platforms.

- **Electric Mobility Leader Magenta Mobility Partners With Kuehne+Nagel For Sustainable Logistics**

Magenta Mobility, an integrated provider of electric mobility solutions, has forged a strategic alliance with Kuehne+Nagel, a global leader in logistics services. The partnership was formally inaugurated at a ceremony held at Magenta Mobility's headquarters in Bangalore.

- **Statiq and Cube Stop Forge Alliance to Fuel India's EV Revolution on Highways**

In a bid to accelerate the adoption of electric vehicles (EVs) and bolster the EV charging infrastructure along India's highways, Statiq, the nation's leading EV charging network, has joined forces with Cube Stop Highway Rest Areas. This collaboration marks a pivotal step towards fostering sustainable mobility solutions across the country.

- **DGI and EVage Motors Forge Strategic Partnership to Revolutionize Electric Truck Market in India**

In a groundbreaking move poised to reshape the landscape of sustainable mobility in India, DG Innovate and EVage Motors have announced a strategic joint venture. This partnership aims to accelerate the commercialization of DG Innovate's Pareta electric drive system while bolstering EVage's position as a leading player in the electric truck market.

- **Magenta Mobility And Switch Mobility Forge Alliance To Boost Electric Vehicle Deployment**

Magenta Mobility, a provider of integrated electric mobility solutions, and Switch Mobility, the electric vehicle division of the Hinduja Group, have entered into a Memorandum of Understanding (MoU) for the procurement of 500 SWITCH IeV4 (Intelligent EV) over a span of two years.

- **PURE EV and Pragmatic Design Solutions Ltd (PDSL) Join Forces to Revolutionize Electric Mobility with High-Performance 2-Wheeler**

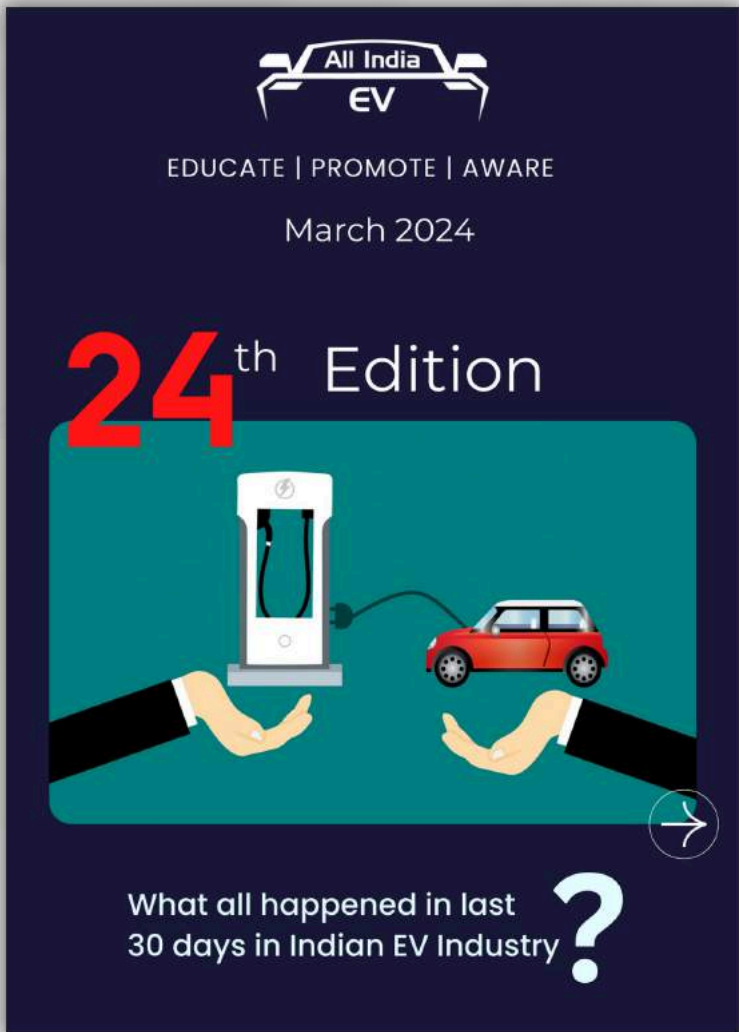
In a significant move towards advancing electric mobility, PURE EV, India's prominent electric 2-wheeler scooter OEM, has announced a strategic joint venture with Pragmatic Design Solutions Ltd (PDSL) based in the UK. With over 70,000 customers and a commitment to pushing the boundaries of electric mobility, PURE EV's collaboration with PDSL aims to cater to the evolving needs of consumers both domestically and internationally.

Other EV Updates

- Revamp Moto Secures Top Prize at AIM Congress 2024 Seed Startup Pitch
- Ola Electric Files Patent For Removable Battery, Revolutionizing EV Technology
- BluSmart's Remarkable Growth: Crossing Rs 500 Crore Annual Run Rate Milestone
- Unlocking Electric Mobility: Piaggio's New Battery Subscription Model For Three-Wheelers
- Accelerating EV Adoption: Statiq Rolls Out Free Charging Service In Karnataka
- ICCT To Spearhead Ministry Of Heavy Industries' Electric Truck Task Force
- EMotorad Revolutionizes Indian Electric Cycle Industry with World's Largest E-Cycle Gigafactory
- NCRTC Rolls Out First Electric Vehicle Charging Point In Ghaziabad
- Honda R&D Launches Solution Center in Bengaluru to Accelerate Electrified Vehicle Development



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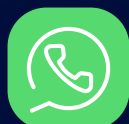
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8588906961



ankit.sharna@allindiaev.com /
allindiaev@gmail.com