



COMPANY OVERVIEW

Welcome to JBM, a dynamic \$2.6 billion global Indian conglomerate having its presence in 37 countries with a rich four-decade legacy. Our mission is to serve a global audience with a special focus on the electrifying future of mobility. We are dedicated to driving innovation and delivering exceptional value across diverse industries, including automotive, buses, electric vehicles, EV charging infrastructure, renewable energy, and artificial intelligence.

At JBM Cadmium, we are at the forefront of the electric vehicle revolution, offering a comprehensive, in-house EV ecosystem aligned to our 'Well-to-Wheel' philosophy. As a one-stop solution provider in E-mobility, we specialize in manufacturing Electric Vehicles, R&D in Battery Technology, Fast Charging Infrastructure Solutions, and Power Electronics. We specialise in customizing solutions to meet the unique needs of global markets.

Our commitment to innovation is driven by embracing smart, connected, autonomous, and shared mobility solutions. Clean mobility is our guiding principle, and we are dedicated to driving EV adoption while creating an end-to-end electric mobility ecosystem. Our mission is to provide intelligent electric vehicles with robust infrastructure support, making EVs the most sustainable mode of public commuting. As a global corporate citizen, we are fully committed to contributing to the Net Zero targets of COP nations.

Our electric buses introduced in 2018, have redefined the public commuting experience. These best-in-class electric buses have set new standards for passenger comfort, safety, affordability, and innovation. They are a testament to our unwavering commitment to excellence. Under our 1 Billion e-km promise, we have already achieved 100 million e-kms, having served 1 Billion bus commuters, thereby, saving 50 million litres of fossil fuel with our zero-emission electric buses. And this is just a touchstone for newer milestones we have planned for our ongoing journey.



With our global leadership team strategically actioning our Net Zero 2040 agenda, JBM Cadmium is well poised to take a paradigm shift in redefining new benchmarks of customer trust & delight. Leveraging cutting-edge technology, we optimize customers' total cost of ownership (TCO), providing customized solutions to meet diverse needs. Our state-of-the-art electric bus manufacturing facility in India, one of the world's largest, reflects our unwavering dedication to our Net Zero targets.

Inclusivity is at the core of our values. We empower communities and promote social and economic inclusivity. Our sustainable practices and investments in renewable energy underscore our dedication to a fairer society. For us, the green economy is not just a buzzword; it's a responsibility. By investing in renewables and eco-friendly practices, we minimize our environmental impact and foster a green economy that generates jobs and supports sustainable development.

At JBM Cadmium, our commitment to inclusivity and the green economy is not just a strategic choice; it is our moral imperative. In our E-VERSE-of-Things, we are not just a participant but a pioneer in shaping the future of transportation. Join us in shaping a sustainable, innovative future for all, as we serve global customers and lead the way at Bus World 2023 with EV ECOSYSTEM as a core agenda and embrace the electrifying E-VERSE of mobility.



NISHANT ARYA

Vice-Chairman & Managing Director

The global automotive industry is at the cusp of an extraordinary revolution, and JBM Cadmium is at the forefront of this transformative journey. The green energy transition taking place globally is powering a new growth momentum, with path breaking technological advancements in electric vehicles. This transition coupled with the massive investments taking place in alternative clean energy solutions the world over, is fuelling the auto sector to align itself with speed and dexterity to the transforming ecosystem. The demand for sustainable and clean mobility is taking the centerstage, necessitating a sharper focus on adoption of new technologies and adaptation to the emerging trends. This, in turn, is driving a new level of innovation by the industry to match the evolving consumer preferences and aspirations.

In this dynamic landscape, the G20 presidency of India has emerged as a motivating force, inspiring us to be catalysts of change. India's leadership in the G20, with a focus on green hydrogen and climate financing, aligns perfectly with our vision at JBM Electric Vehicles. We believe in the G20 theme, "One Earth, One Family, One Future" which underscores the importance of collective global efforts to address pressing issues such as pollution and climate change. It resonates with our commitment to sustainability and innovation, and we are ready to seize the future.

JBM Cadmium Business is spearheading the electric vehicle revolution through JBM E-Verse, an ecosystem solution designed to revolutionize electric mobility from end to end. Our mission is to set new global benchmarks for sustainable public mobility. We envision a world where public transport is not merely a necessity but a preferred choice for travellers. JBM Cadmium has been a pioneer in the e-mobility segment, redefining public transportation with our best-in-class, modern, and technologically superior electric buses. These vehicles have set industry benchmarks in passenger comfort, safety, affordability, and innovation, reflecting the core values of our products.

At the core of JBM Cadmium is our belief in our ability to celebrate our customers by delivering reliable and everlasting experiences. Our journey is steered by a robust nucleus of world-class customer experience, built on a foundation of expertise and experience. Our continuous investments in Technology, Innovative business models, and People (TIP) have consistently propelled our growth trajectory.

As we align ourselves with emerging trends and strive to set new benchmarks, we are enhancing our strength by incorporating frugal manufacturing and digitalization. These initiatives are reducing time to market for our customers and reinforcing our commitment to innovation and efficiency.

I welcome you to the JBM e-verse, the complete EV ecosystem universe, and invite you to partner with us in creating accelerating experiences. Together, we can redefine the future of mobility and make a positive impact on our world and future generations.



S T E P B Y S T E M

INNOVATION THROUGH SCIENCE, TECHNOLOGY & RESEARCH	01
ENERGY & SUSTAINABILITY	03
RENEWABLE ENERGY	05
LEADING THE WAY IN SUSTAINABLE E-MOBILITY	07
EMPOWERING GLOBAL MOBILITY	09
ENERGIZING THE FUTURE OF EV CHARGING	11
ACCELERATING E-MOBILITY WITH DIGITAL INNOVATION	13

WORLD WIDE FOOTPRINT	15
LUXURY ENVISIONED AND COMFORT REDEFINED	17
MAKING YOUR EVERYDAY COMMUTE COMFORTABLE	19
PRODUCT TECHNOLOGY ECOSYSTEM	21
APPLICATION	23
PRODUCT PRODUCT SYSTEM	25

INNOVATION THROUGH SCIENCE, TECHNOLOGY & RESEARCH

Technology, Innovative business models and People (TIP), happen to be JBM's springboard for achieving leadership position. As an organisation, JBM Electric Vehicles has swiftly aligned itself to these emerging trends and has become more robust by adopting frugal engineering practices, digitalizing production and enabling enhanced processes, thereby reducing the time to market. Consistent innovation, constant learning and benchmarking best technology in all its endeavours has been the cornerstone for JBM's sustained and consistent growth over the decades. JBM believes in acting as a one-stop shop encapsulating end to end solutions to attain and sustain customer delight.

At JBM Cadmium, we are at the forefront of the electric vehicle revolution, offering a comprehensive, in-house EV ecosystem aligned to our 'Well-to-Wheel' philosophy. As a one-stop solution provider in E-mobility, we specialize in manufacturing Electric Vehicles,

Battery Technology, Power Infra, Fast Charging Infrastructure Solutions and Power Electronics. We specialise in customizing solutions to meet the unique needs of global markets.

Our commitment to innovation is driven by embracing smart, connected, autonomous, and shared mobility solutions. Clean mobility is our guiding principle, and we are dedicated to driving EV adoption by way of our electric mobility ecosystem – E-Verse. Our mission is to provide intelligent electric vehicles with robust infrastructure support, making EVs the most sustainable mode of public transport. As a global corporate citizen, we are fully committed to contributing to the Net Zero targets of COP nations.





ENERGY & SUSTAINABILITY

At JBM Cadmium, we are dedicated to driving the energy transition and fostering a cleaner world for future generations. Our mission is to play an even more significant role in this transformative landscape by utilizing technical applications, research and technology to make a lasting impact.

Beyond electric transport, we focus on renewable energy, energy storage and the development of charging infrastructure to empower green transportation systems. Our commitment extends to manufacturing electric batteries, creating holistic electric mobility systems (comprising vehicles and chargers) as exemplified by our E-Verse theme, building and converting hybrid energy systems, harnessing solar power and wind turbines as renewable energy sources, and efficiently recovering industrial residual heat. These solutions are integral to our commitment to sustainable and clean energy and forms part of our e-Mobility ecosystem mantra.

Moreover, we prioritize reuse and recycling. Our research and development efforts center on repurposing used batteries to give them a second life as energy storage resources for our clients worldwide.

JBM Cadmium remains committed to expanding and advancing these initiatives to shape a better world, both today and for generations to come.

RENEWABLE ENERGY: FROM GENERATION TO EMPOWERING THE E-MOBILITY ECOSYSTEM

At JBM Cadmium Pvt Ltd, we understand that renewable energy is not just a choice; it's a vital catalyst for driving the e-mobility ecosystem. We are committed to harnessing renewable energy sources, with a primary emphasis on solar and wind energy, to power our journey toward a cleaner and more sustainable future.

Solar Power: We have invested significantly in solar energy infrastructure. Our solar project investments harness the abundant energy from the sun, converting it into clean, sustainable power. This renewable energy source not only reduces our carbon footprint but also plays a crucial role in energizing our manufacturing operations and contribute to electric grids for us to draw energy for our electric vehicle (EV) ecosystem. From charging infrastructure to electrifying our buses, solar power is integral to our vision of a greener and more efficient future.

Wind Energy: Windmills are another cornerstone of our renewable energy efforts. Harnessing the power of the wind, we generate clean electricity and contribute to the National Grids. The credits assist us to use this renewable energy source to drive our operations and charge our EV infrastructure solutions. Wind energy aligns seamlessly with our commitment to sustainability, offering a reliable and environmentally friendly source of power

Waste-to-Energy Investment: In addition to solar and wind energy, we actively invest in waste-to-energy projects. These projects transform waste materials into valuable energy resources, further diversifying our renewable energy portfolio. By efficiently managing waste and converting it into clean energy, we not only minimize environmental impact but also bolster our e-mobility ecosystem in lieu of our sustainable renewable power contribution

Our dedication to renewable energy is not just an investment; it's a pledge to reduce our environmental footprint and promote sustainable practices. By integrating solar, wind, and waste-to-energy sources into our operations, we are actively advancing the growth and success of the e-mobility ecosystem while contributing to a cleaner, greener world for present and future generations.





LEADING THE WAY IN SUSTAINABLE E-MOBILITY

In an era where mobility is the lifeblood of society's economic functions, JBM Electric Vehicles Pvt Ltd stands as a formidable force in pioneering sustainable e-mobility solutions. Our unwavering commitment to cleaner, more accessible, and healthier transportation aligns with our mission to leave a lasting positive impact on our world.

We embarked on this journey as a component supplier, but our expertise in assembling automobiles for global Original Equipment Manufacturers (OEMs) has propelled us to the forefront of the e-mobility revolution. Today, we are leaders in the development and production of electric buses and the comprehensive EV ecosystem that supports them. With our immense potential and scale, we are poised to play a pivotal role in driving the widespread adoption of electric buses on a global scale.

As we move forward with boundless energy, we are not merely focused on building vehicles; we are at the forefront of addressing intelligent mobility challenges. Our expertise spans

a spectrum of smart mobility issues, including vehicle design, electrification, connectivity, autonomous driving, and the concept of mobility as a service. These innovations are shaping the future of transportation, making it not only cleaner but also smarter.

In-house design capabilities empower us to create mobility solutions that extend beyond buses to other forms of transport. Moreover, our vehicles are evolving into data collectors, providing valuable insights not only on their own performance but also on their broader environmental impact. This forward-thinking approach contributes to the creation of liveable smart cities where sustainability and continuity are paramount.

In essence, everything we do in the realm of mobility is guided by a commitment to smart, sustainable solutions. Our aim is to set new benchmarks in sustainability and continuity, ensuring that we pass on a cleaner and better world to the next generation. At JBM Cadmium Pvt Ltd, we are leading the way in sustainable e-mobility, shaping a future where mobility is not just a necessity but a catalyst for positive change.

EMPOWERING GLOBAL MOBILITY: JBM ELECTRIC VEHICLES PVT LTD'S ELECTRIC VEHICLE ECOSYSTEM

In an era marked by a collective global shift towards sustainable transportation, JBM Cadmium Pvt Ltd stands as a driving force behind the Electric Vehicle (EV) revolution. Spearheading this transformative journey is our flagship initiative, JBM E-Verse—an ecosystem solution that embodies end-to-end convergence for electric mobility.

Our mission is ambitious yet clear: to transform public mobility on a global scale by creating innovative and sustainable benchmarks. We envision a world where public transportation transcends necessity and becomes the preferred choice for travelers. As a testament to our commitment, JBM Cadmium Pvt Ltd has emerged as a pathbreaker in the e-mobility segment, reshaping how people commute.

At the core of our transformational journey are our best-in-class, modern, and technologically superior electric buses—a testament to our unwavering dedication to innovation and sustainability. These buses have not only redefined public transportation but have also established industry benchmarks in passenger comfort, safety, affordability, and innovation.

A Global Perspective: JBM Cadmium Pvt Ltd is proud to hold over 50% market share in the bus segment in India, the world's fifth-largest economy. This remarkable achievement is propelled by our pioneering thinking and status as a first mover in the EV ecosystem. Our electric buses, part of the JBM E-Verse ecosystem, are poised to make an even more significant impact on a global scale.

Innovative Capabilities: Our electric buses are not just vehicles; they are innovatively crafted around our in-house capabilities. These capabilities encompass fast charging infrastructure, high-efficiency Li-ion EV batteries, robust power infrastructure, and an extensive service network ensuring round-the-clock support with negligible downtime. These strengths position us perfectly to achieve our ambitious goal of clocking 1 billion e-kilometers by 2025-26, building upon the 50 million green kilometers already achieved by JBM e-buses—a journey that continues to unfold.

As we chart this transformative path, JBM Cadmium Pvt Ltd remains steadfast in its commitment to shaping a sustainable and innovative future for global mobility. Our electric vehicle ecosystem represents not just the future of transportation but a promise of a cleaner, greener, and more connected world, where public mobility is a choice that makes a difference.

ENERGIZING THE FUTURE OF EV CHARGING: SAAS SOLUTION

In our relentless pursuit of digitization and enhancing the customer E-Verse experience, we proudly introduce our cutting-edge application for EV chargers. The goal is to revolutionize the way one charges the electric vehicle, to make it seamless and efficient. **Locate Chargers Anytime, Anywhere:** With a user-friendly mobile application, finding JBM chargers is a breeze. Whether you're on the road or planning your next journey, our app puts the power of charging in your hands, literally. So goodbye to range anxiety as one can effortlessly locate JBM's charging stations

Choose Your Charger, Your Way: Our application empowers end-users to select charging that best suit their preferences. Whether one is looking for a rapid charge or prefer a slower, steadier pace, the app provides with the flexibility to make a choice.

Complete Charger Details: Transparency is key. The application not only offers the

convenience of finding chargers but also provides comprehensive details about each charger in the network. This information helps the dedicated team proactively maintain and manage services, ensuring the chargers are always in top-notch condition.

For Businesses and Beyond: While the application currently caters to the business-to-business (B2B) segment, JBM Cadmium has the broader consumer market (B2C) firmly in sight.

The platform are primed and ready to extend its benefits to individual users as well, so everyone can experience the future of EV charging.

At JBM Cadmium Pvt Ltd, we are charging ahead into a future where EV charging is not just a necessity but a seamless part of your journey. Our SaaS solution is designed to energize your electric vehicle experience, one charge at a time. Get ready to embrace a smarter, more efficient, and eco-friendly way to power your travels.



ACCELERATING E-MOBILITY WITH DIGITAL INNOVATION

In the rapidly evolving landscape of e-mobility, digitization has become more than a choice—it's a necessity. At JBM Cadmium, we're fully committed to digitization and automation across the entire vehicle development journey.

AI Advancements: We employ artificial intelligence to enhance vehicle safety, reduce costs, and optimize efficiency, ensuring safer and more efficient vehicles.

Data-Driven Ecosystem: Utilizing big data analytics, connectivity, and cloud computing, we've created a seamless EV ecosystem for our electric buses, benefiting operators and passengers alike.

Knowledge Empowerment: In FY24, we're digitizing knowledge management, bringing digital tools to every level of our organization for widespread benefits.

Our digitization efforts span key areas:

SAP Upgrade: We've streamlined e-invoicing, e-waybill, and GST returns with an upgraded SAP platform, ensuring GST compliance and enhancing critical functions.

Product Lifecycle Management: Adopting PLM software ensures detailed version control and product management, reducing compliance risks.

Manufacturing Efficiency: Our MES deployment improves product tracking and transparency, vital for compliance and quality.

SaaS Transition: We're migrating audits, assessments, and business processes to digital SaaS platforms for greater efficiency and flexibility.

At JBM Cadmium Pvt Ltd, digitization drives our journey toward a cleaner, smarter, and more connected e-mobility future.

WORLD WIDE FOOTPRINT

10+ POWER PLANTS

5 ENGINEERING & DESIGN CENTRES

37 GLOBAL LOCATIONS

60 MANUFACTURING FACILITIES

25 EXPORTS TO 25 COUNTRIES

LUXURY ENVISIONED AND
COMFORT REDEFINED.

GALAXY 

KEY FEATURES

 1000~ 1500 KMS PER DAY

 ULTRAFAST CHARGING ~ 60 MINS

 LUXURY ON WHEELS

 40~60 PASSENGERS

 BEST IN CLASS HV SAFETY

 ~95% UPTIME



MAKING YOUR EVERYDAY
COMMUTE COMFORTABLE.

ECO-LIFE e12

KEY FEATURES

 400~500 KMS PER DAY

 ULTRAFAST CHARGING ~ 60 MINS

 CONVENIENT ON THE GO

 50~60 PASSENGERS

 BEST IN CLASS HV SAFETY

 ~95% UPTIME



PRODUCT TECHNOLOGY ECOSYSTEM



Energy Efficient

Energy optimization using a direct drive configuration and a sophisticated vector control system.

Minimizing losses through IGBT-based liquid-cooled inverter.

Most efficient EBS for maximizing regeneration.



Power Electronics

Efficient and safer operation using industry-proven IGBT and Silicon Carbide (SiC)-based technology.

Converters fitted with EMC filters to eliminate interface disturbances.

Components with low conduction losses leads to higher electrical efficiency.



Efficient Thermal Management

Active cooling system to protect thermal runaways.

Energy efficient scroll compressor for efficient battery cooling.

Coolant flow optimized using integrated electric pump.



Embedded System

Better control over vehicle aggregates through optimized and accurate monitoring.

User friendly Interactive GUI dashboard with thin-film transistor technology.

Unparalleled flexibility for customization through model based software.



Ultrafast Charging

Dual gun charging up to 500 kW power.

Safe charging with dedicated isolation management.

Highly efficient European-standard CCS2 charging system.

EXTENDED RANGE ELECTRIC BUSES



APPLICATION



Supporting the launch of various models

With "high energy density, high safety, long life, fast charging / high power, all climate" as the core competitiveness, our products can fully support the first line brand OEM models. We have cooperated with leading Chinese and foreign passenger car enterprises on the launch of many models, thanks to our incomparable advantages in mass production and delivery capacity in the support.



Full application scenario coverage

With "long life, high energy density, high safety, all climate, standardization and scalability" as the core competitiveness, our products cover all fields of commercial vehicles like pure electric bus, commuter, logistics vehicle, engineering machinery, etc. The vehicles supported by our products have been widely used in the scenarios such as high temperature, high humidity, remote plateau, high cold and low pressure, and our delivery of supporting quantity is leading in the industry.



Industry leading in total installation capacity

With "high safety, long life, high economic efficiency and high integration rate" as the core competitiveness, our energy storage integrated system services are provided to meet various needs, covering the application fields of power generation side wind optical storage, grid side peak shaving and frequency regulation, user side peak load sharing, standby power supply and marine energy storage. As one of the first national energy storage demonstration projects, the energy storage products delivered by CALB have been widely used in the scenarios such as offshore islands, remote plateau, high cold and low pressure, and the total installation capacity of energy storage projects is leading in the industry.

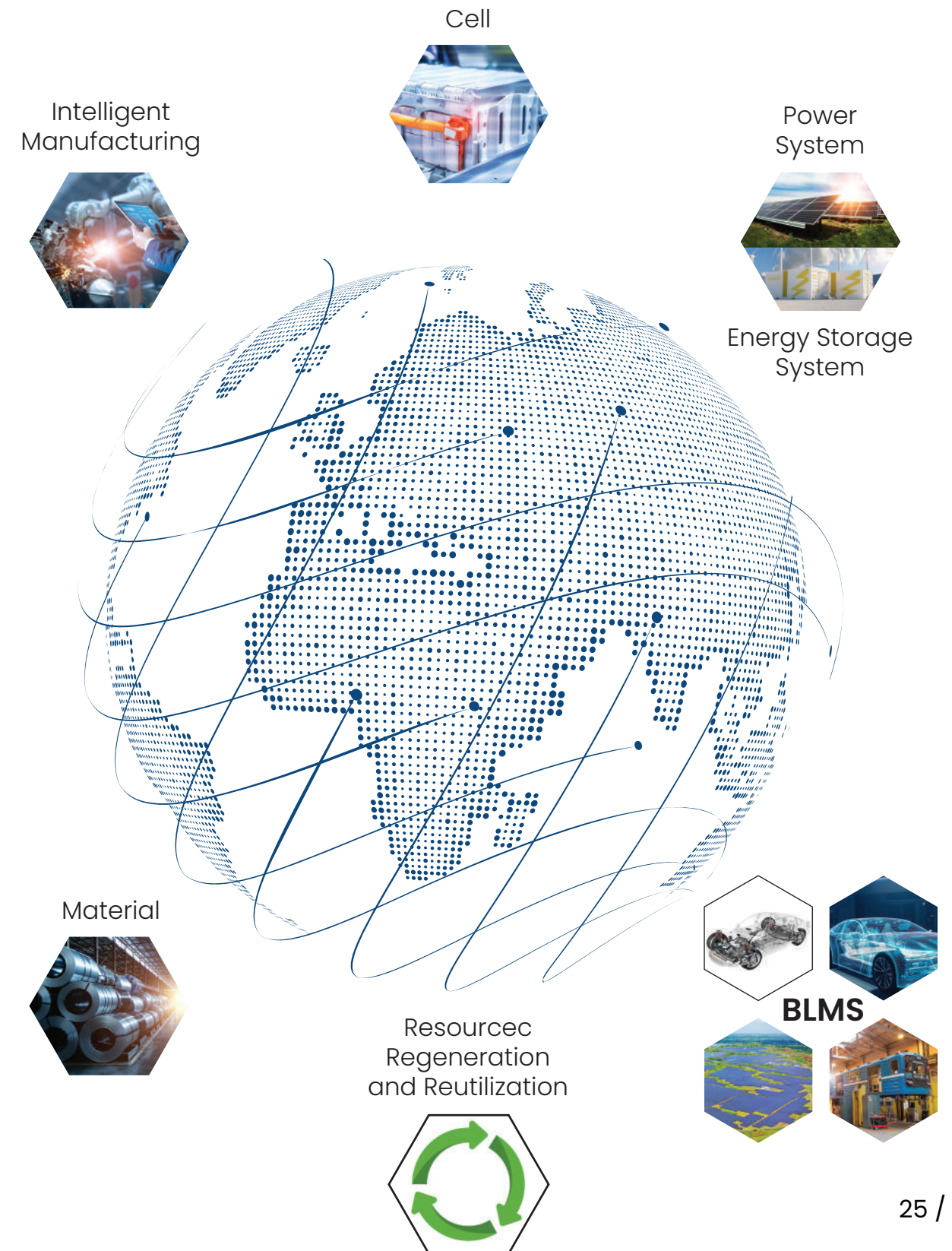
PRODUCT

Leading Product & Technology Strategy
Building the benchmark of advanced manufacturing industry



PRODUCT SYSTEM

Ultimate balance of energy and resource
Ultimate balance of energy and safety
High integration of design and manufacturing



**Corp. Office**

Plot No.9, Institutional Area,
Sector 44, Delhi-NCR - 122003

Sales & Marketing Office

JBM Cadmium Pvt. Ltd.
601, Hemkunt Chambers 89,
Nehru Place, Delhi-NCR - 110019

www.jbmtesco.com

corp.communications@jbmtesco.com

Enquiry No.
+91-9953110455 (East & South)
+91-9953993923 (North)
+91-8238144400 (West)

Landline No.
+91-11-26427104, 42099900