

Building the World of **ELECTRIC** **MOBILITY**



PIONEERING EV TECHNOLOGY, FROM INDIA FOR THE WORLD

Mahindra Group is a federation of companies, bound by one purpose – to Rise. Inspired by this spirit, our goal to always positively impact our partners, stakeholders, communities and the world at large, remains unshakeable. With Mahindra Electric, the group ventured into the paradigm of alternative technologies to enable clean, connected & convenient mobility solutions for tomorrow.

Mahindra Electric today stands as a global pioneer in the development and production of electric vehicles. In addition, it is India's only EV manufacturer that is also a full service provider for e-systems and electric powertrains, including battery technology, power-electronics, drivetrain components, testing facilities and integration services.

Under the ME brand, the electric powertrains used in various vehicles have already crossed over 200 million electric kilometres, proving their mettle. And to propel this entire ecosystem further, the company offers software based mobility solutions that drive unique models for connected, shared and electric mobility.



As pioneers in the country, Mahindra Electric is committed to developing an electric mobility ecosystem. The company is already in the process of putting up facilities to support this vision:



- Electric Vehicle technology innovation hub
- EV technology manufacturing hub for low voltage powertrains
- Facilities coming up - Global R&D centre with individual development and testing labs for all major components; and EV technology manufacturing hub for high voltage powertrains.

The future is going to be
clean, connected and convenient!

ELECTRIC VEHICLES

2013

Mahindra e₂o

A compact two door electric hatch, launched as India's first electric vehicle, perfect for the city. With unique design and colours, latest battery technology and exceptional features for connectivity & convenience, the vehicle became an instant favourite of the country's EV enthusiasts. Today, it is revered as the first icon for electric mobility in India.



2016

Mahindra e₂oPlus

Developed over the e2o platform, the Mahindra e2oPlus is a four door electric city smart vehicle. Compact, zippy and with zero emission, the vehicle is a perfect solution for a family to drive around the city. The vehicle also boasts of a 72 V variant with higher range and better performance. This vehicle is not only appreciated in the retail market, but also found ready acceptance in the fleet segment.



2016

Mahindra eVerito

India's first electric sedan, the Mahindra eVerito is a silent, smooth and suave favourite of the fleet segment. Fully equipped with fast charging capabilities and plush interiors, the vehicle is apt for executive commute. In fact, it is one of the vehicle which is a part of India's largest EV tender for 10,000 vehicles by EESL for the government of India.



2016

Mahindra eSupro

After the success of the Supro, India got its first electric commercial range of vehicles in the form of eSupro cargo and passenger vans. This is the first foray of electric mobility in the commercial segment for India and with all the goodness of EVs bundled in, it makes for a great opportunity for this segment to go electric.



2018

Mahindra Treo

With the unique market that is India, the change to electric mobility has to be led by public transportation. This electric three wheeler range is built on the Treo electric platform which was developed indigenously. Boosting of low maintenance, superior lithium-ion technology and great earnability for the driver, the Treo electric auto and Treo Yaari electric rickshaw are there to change the way India travels.



MOBILITY SOLUTIONS

Branded under the aegis of NEMO – “Next-Generation Mobility”, Mahindra Electric offers cloud based mobility solutions that enable a new generation of shared, connected & electric services to revolutionize urban mobility. The offerings enable new and unique business models to be developed around shared and electric mobility.

APPLICATIONS OF NEMO

For personal use customers

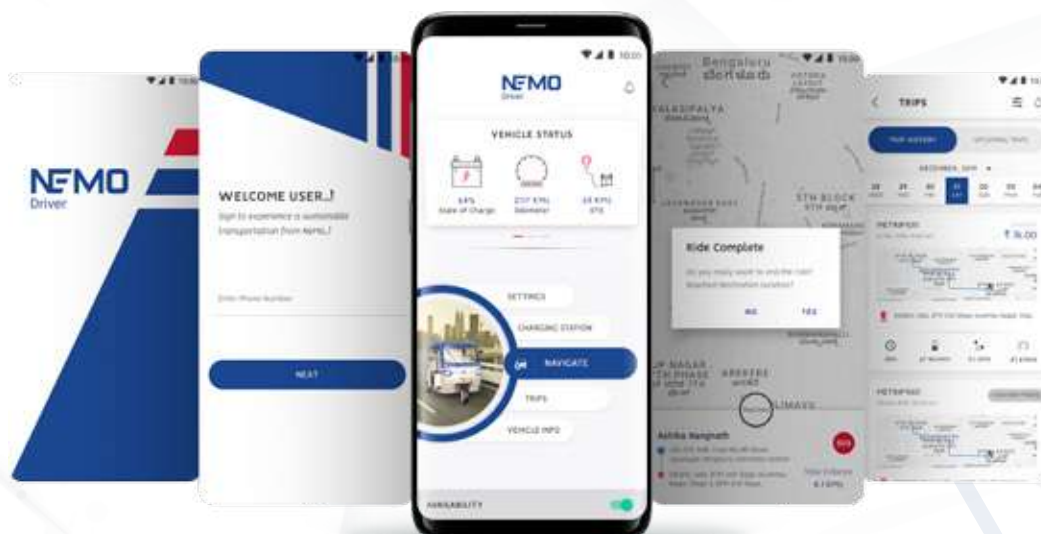
With NEMO Life, customers can access a host of convenient features such as remote control on a few features, vehicle range, trip planning, data on driving efficiency and many more. These directly address barriers to adoption like range anxiety.

For fleet owners

NEMO Driver and Commuter app enables operators to seamlessly plan, manage and automate end-to-end transportation needs for customers. NEMO also offers Integrated Mobility Centre (IMC) as a key platform which converges information from all the vehicles connected to the particular platform, and presents usable dashboards for tracking and decision making.

And many more!

The future applications of the NEMO platform present endless opportunities to better the way we look at e-mobility. It is not only limited to fleet owners and personal users, but the entire ecosystem of electric shared mobility.



BENEFITS



Leveraging EV data warehouse of over 200 million electric kms for contextual analytics, advanced algorithms for trip planning, vehicle prognostics, optimisation of vehicle performance & utilisation



Single platform for multiple shared mobility applications and stakeholders, spanning the entire EV ecosystem



Real-time data transmission over secure communication, supporting multiple hardware variants for cloud-based deployment



Customised mobility experiences to end users and proven business value to B2B fleet customers through cutting-edge technology

POWERTRAIN SOLUTIONS

Mahindra Electric is a pioneer not only in electric vehicles but also in the development and manufacturing of electric vehicle technology components. Powertrain solutions for the likes of eVerito and eSupro have come from Mahindra Electric's Innovation Centre at Bengaluru. Taking this forward, Mahindra Electric is now developing cutting-edge powertrain solutions across vehicle segments, ranging from three wheelers to passenger cars to heavy commercial vehicles, all branded under the ME technology.

BENEFITS OF CHOOSING ME FOR ELECTRIC POWERTRAINS

- ◆ One-stop solution for hardware, software & IoT integration - full systems supplier
 - ◆ Cost effective, high quality localised manufacturing
 - ◆ Global strategic partners & quality suppliers
 - ◆ Powertrains proven on own products
 - ◆ Test facilities from lab level to on-road
 - ◆ Strong R&D team with multiple patents held and filed
 - ◆ Consistent investment in people competencies and plant capacity
 - ◆ Synergies with Mahindra's Formula E team to leverage race capabilities for application on the road

Vehicle Control Unit

- Hardware and software integration
- Plant model simulations
- VCU functionalities

Power Electronics

- DC - DC integration
- OBC design & packaging

Energy System

- Battery box design packaging
- Thermal management
- Simulations & Cell characterisation

Drivetrain System

- Drivetrain design and development
- System integration
 - Dyno testing
 - Drive shaft support

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