

# What is **Electric Mobility**?

According to the National Development Plan for Electric Mobility (NEP), electric mobility includes **all street vehicles that are driven by an electric motor and extract their energy largely from the power grid – in simple words, can be recharged externally.**

This includes purely electric vehicles, vehicles with a combination of electric motor and **a small combustion engine** (range extended electric vehicles – REEV) and **hybrid vehicles that can be recharge via the power grid** (plug-in hybrid electric vehicles – PHEV).

## **WHY Go For Electric?**

Climate change is one of the main reasons why countries are being obliged to adopt an electric as an alternative.

The push for electric vehicles has been one of the tactics used to fight this. Not only will this benefit the environment, but it will also benefit India's general economic health.

**(India now imports crude oil, which results in a \$60 billion trade deficit.)**

# How it will be **beneficial** for the **economy**?

The automobile industry contributes 49 percent of India's manufacturing GDP and 7.1 percent of the country's overall GDP. The government's second AMP (Automotive Mission Plan) lays out the strategy for elevating the automotive industry to world-class levels.

In reality, the number of electric cars running in the medium and heavy passenger vehicle category climbed from 124 in 2018 to 1,356 as of August 6, 2021, and this figure is expected to rise further in the future. Furthermore, as of August 2021, the FAME India Scheme had sold approximately 3.87 lakh electric vehicles and 6,740 electric buses in India. Finally, it will reduce the deficit and assist the Indian economy in improving.

## Challenges

There will undoubtedly be significant hurdles along the route to obtain huge numbers in the EV market or to encourage existing populations to participate in EV's. The challenges EV might go through such as **the market is highly price sensitive**. The higher capital cost of EVs as compared to an ICE is a challenge.

Secondly, **there is a lack of a fast charging infrastructure around the country**.

Thirdly, many of the Poepple like to travel long distances with a single charge, which is not feasible with **the current battery technology installed in electric cars**. This is particularly important for current population because of the limited charging infrastructure in India.

Lastly, **customers are keen to charge** as quickly as they can refuel a petrol tank, which is not feasible with the current charging technologies.

## Road Ahead

India has enough reasons to electrify its road transportation system. The government wants to reduce **oil imports and pollution**, while businesses in India are attempting to **lower the cost of mobility services**. Carmakers are attempting to gain a **competitive advantage** in new automotive technologies, and investors in the mobility space are looking for **innovative technologies** and business models to invest in.

From the first electric car in 1837 to the present, we have witnessed massive changes, particularly in terms of technology, but also in people's attitudes toward the environmental impacts of cars and other mobility solutions. Although the electric vehicle market is currently a lucrative target for Indian companies and start-ups, several obstacles must be overcome before EVs are ready for mass adoption. However, **we believe that growth will be rapid and that it will begin to make a significant impact within the next 5-10 years.**

# List of Top EV Stocks in India for Investors

01



Olectra greentech  
Industry - Buses

**CMP - 624**

M.cap - 5.1K , P/E - 98

02



Exide Industry  
Industry - Batteries

**CMP - 157**

M.cap - 13K , P/E - 2.99

03



Amara Raja Batteries Ltd.  
Industry - Batteries

**CMP - 505**

M.cap - 8.6K , P/E - 16.9

04



Mahindra Electric  
Industry - Passenger Cars

**CMP - 1258**

M.cap - 156K , P/E - 24.9

05



Tata Motors LTD  
Industry - Trucks/Lcv

**CMP - 467**

M.cap - 166K , P/E - -

06



Ashok Leyland  
Industry - Trucks/Lcv

**CMP - 146**

M.cap - 42K , P/E - 561

07



Bajaj Auto  
Industry - Scooters And 3 - Wheelers

**CMP - 4000**

M.cap - 115K , P/E - 21

08



Sona BLW LTD  
Industry - Castings & Forgings

**CMP - 570**

M.cap - 33K , P/E - 97.6

09



Himadri Speciality  
Chemical Ltd  
Industry - Chemicals

**CMP - 96**

M.cap - 4K , P/E - 70.7

**Note** - We have also included related Industries & Stocks in the electric vehicle Segment. and there could be additional stocks as well.

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