



INCREASING ADOPTION OF ELECTRIC VEHICLES IN INDIA

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As per inputs received from BHEL, the project implementation agency for EV public charging stations (EVPCS) under the PM E-DRIVE Scheme, there are 39,485 EV chargers installed, out of which 8,414 are fast EV chargers for cars.

To address the issue of range anxiety of EV users, Ministry of Power has issued “Guidelines for installation and operation of Electric Vehicle Charging Infrastructure 2024” which outline the standards and protocols to create connected and interoperable EV charging infrastructure network including Battery Swapping /Charging Stations. Further, setting up of electric vehicle charging stations is an unlicensed activity and private entrepreneurs can also participate in it. In addition to this, an allocation of Rs.2,000 crore has been made under the PM E-DRIVE Scheme, for setting up of electric vehicle public charging stations (EV PCS).

MHI has notified Scheme for Promotion of Manufacturing of Electric Passenger Cars in India for promotion of manufacturing of electric cars. In addition to this, PLI Auto & Auto Component scheme also incentivizes EVs including electric cars.

The PM E-DRIVE Scheme was notified on 29/09/2024. Under the scheme, procurement of e-buses through an aggregation model based on competitive bidding is undertaken by Convergence Energy Services Limited (CESL). In Phase I, 10,900 e-buses have been allocated to five cities, and the bids for selection of e-bus operators for these 10,900 e-buses have been opened on 14.11.2025. Further, an additional 2,900 e-buses have been allocated under Phase II of allotment of e-buses.

As such no target has been set for EVs in India. However, Government is implementing a number of schemes including the following to increase the number of EVs :-

- i. **Production Linked Incentive (PLI) Scheme for Automobile and Auto Component Industry in India (PLI-Auto):** The Government notified this scheme for Automobile and Auto Component Industry in India, on 23rd September, 2021, for enhancing India's manufacturing capabilities for Advanced Automotive Technology (AAT) products, including EVs, with a budgetary outlay of ₹25,938 crore.
- ii. **Production Linked Incentive (PLI) Scheme for National Programme on Advanced Chemistry Cell (ACC) Battery Storage :** The Government on 9th June, 2021 notified the PLI Scheme for manufacturing of ACC in the country with a budgetary outlay of Rs.18,100 crore. The scheme aims to establish a competitive domestic manufacturing ecosystem for 50 GWh of ACC batteries.
- iii. **PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) Scheme:** This scheme with an outlay of Rs.10,900 crore has been notified on 29th September, 2024. This

scheme includes support for electric vehicles including e-2W, e-3W, e-Trucks, e-buses and e-Ambulances. Further, EV public charging stations and upgradation of testing agencies is also included in this scheme.

iv. **PM e-Bus Sewa-Payment Security Mechanism (PSM) Scheme:** This Scheme notified on 28.10.2024, has an outlay of Rs. 3,435.33 crore and aims to support deployment of more than 38,000 electric buses. The objective of scheme is to provide payment security to e-bus operators in case of default by Public Transport Authorities (PTAs).

v. **Scheme for Promotion of Manufacturing of Electric Passenger Cars in India (SPMEPCI)** was notified on 15th March, 2024 to promote the manufacturing of electric cars in India. This requires applicants to invest a minimum of Rs.4,150 crore and to achieve a minimum DVA of 25% at the end of the third year and DVA of 50% at the end of the fifth year.

This information was given by the Minister of State for Heavy Industries, Shri Bhupathiraju Srinivasa Varma in a written reply in the Rajya Sabha today.

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