GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1109
ANSWERED ON 09.12.2025

INTEGRATED ROADMAP TO PROMOTE GREEN HYDROGEN

1109. SHRI KARTIKEYA SHARMA

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether the Ministry is developing an integrated roadmap to promote green hydrogen and electric mobility as clean-transport solutions, particularly long-haul freight, public transport and industrial logistics;
(b) the progress achieved during the current financial year in establishing renewable-linked EV charging corridors, green hydrogen refuelling pilots and hybrid clean-transport demonstration projects; and
(c) whether any States in northern India, including State of Haryana, have been considered for pilot initiatives that combine green hydrogen mobility, electric buses and renewable-powered charging infrastructure?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) MNRE is not developing an integrated roadmap to promote green hydrogen and electric mobility as clean-transport solutions, particularly long-haul freight, public transport and industrial logistics.

(b) The Government of India is implementing the National Green Hydrogen Mission (NGHM), with an objective to make India a global hub of production, usage and export of green hydrogen and its derivatives.

The Ministry of New and Renewable Energy (MNRE) has issued the scheme guidelines for implementation of pilot projects for use of green hydrogen in the transport sector under NGHM. Five (5 nos.) pilot projects have been sanctioned for deployment of 37 hydrogen - fuelled vehicles with 9 Hydrogen Refuelling Stations on 10 different routes across India.

The Government of India is also implementing a number of schemes including the following to increase the number of Electric Vehicles (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. PLI Scheme for Advanced Chemistry Cell (ACC): The Government on 9th June, 2021 notified the PLI Scheme for manufacturing of ACC in the country with a budgetary outlay of ₹ 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 EDRIVE) Scheme: This scheme with an outlay of ₹ 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 & 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 28th October 2024, has an outlay of ₹ 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 ₹ 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.

(c) One of the pilot projects in the transport sector under NGHM has been awarded for the deployment of two hydrogen fuel-based vehicles on the Sahibabad – Faridabad - Delhi NCR route.

NTPC Ltd has also commissioned a green hydrogen mobility project in Leh, Ladakh which comprises of 1.7 MW solar plant, green hydrogen filling station of capacity 80 kg/day and 5 hydrogen fuelled intra – city buses.

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