

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1093
ANSWERED ON 12/12/2023

GREEN HYDROGEN MISSION

1093. SHRI R. DHARMAR

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

- (a) the features of the green hydrogen mission;
- (b) the details of the funds sanctioned, allocated and utilized under this Mission during the last three years and the current year across the country;
- (c) the details of the target set and achievements made so far along with its response within the country;
- (d) whether Government has set a new target under this mission with regard to low carbon intensity and to reduce dependency on fossil fuel imports across the country; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) The Ministry is implementing the National Green Hydrogen Mission, approved by the Union Cabinet on 4th January 2023, with an outlay of ₹ 19,744 crore from FY 2023 – 24 to FY 2029 – 30. The overarching objective of the Mission is to make India a Global Hub for production, usage and export of Green Hydrogen and its derivatives. Various financial and non-financial measures have been announced under the Mission, including inter - alia, the following:

- i. Facilitating demand creation through exports and domestic utilization;
- ii. Strategic Interventions for Green Hydrogen Transition (SIGHT) programme, which includes incentives for manufacturing of electrolyzers and production of green hydrogen;
- iii. Pilot Projects for green steel, mobility, shipping, decentralized energy applications, hydrogen production from biomass, hydrogen storage, etc.;
- iv. Development of Green Hydrogen Hubs;
- v. Support for infrastructure development;
- vi. Establishing a robust framework of regulations and standards;
- vii. Research & Development programme;
- viii. Skill development programme; and
- ix. Public awareness and outreach programme.

(a) Mission was approved on 4th January 2023 with overall outlay of Rs. 19,744 crores till FY 2029-30

Revised estimates for the Mission for FY 2022-23 were Rs 1,00,000. There was no expenditure in FY 2022-23

Revised estimates for the Mission for FY 2023-24 are Rs 100 crore. Expenditure is Rs. 11 lakhs till date

(c) to (e) The expected outcomes of the Mission, by 2030, are as follows:

- i. India's Green Hydrogen production capacity is likely to reach 5 MMT per annum, contributing to reduction in dependence on import of fossil fuels. Achievement of Mission targets is expected to reduce a cumulative ₹ 1 lakh crore worth of fossil fuel imports by 2030.
- ii. This is likely to leverage over ₹8 lakh crore in total investments and create over 6 lakh jobs.
- iii. Nearly 50 MMT per annum of CO₂ emissions are expected to be averted through production and use of the targeted quantum of Green Hydrogen.
