

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 935
ANSWERED ON 03/12/2024

NATIONAL GREEN HYDROGEN MISSION

935. SHRI ADITYA PRASAD
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Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the features and objectives of the National Green Hydrogen Mission;
- (b) the time limit fixed for achieving the targets set under this scheme; and
- (c) the specific initiatives undertaken by the Ministry to implement and achieve its goal of making India a global hub for green hydrogen production, usage and export under the National Green Hydrogen Mission?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) to (b) The Ministry of New and Renewable Energy is implementing the National Green Hydrogen Mission, with an objective to make India a global hub of production, usage and export of Green Hydrogen and its derivatives. This Mission has an approved overall outlay of Rs. 19,744 crore, with the following features :-

- i. Strategic Interventions for Green Hydrogen Transition (SIGHT) programme, which includes incentives for manufacturing of electrolysers and production of green hydrogen;
- ii. Pilot Projects for green steel, mobility and shipping sector;
- iii. Development of Green Hydrogen Hubs;
- iv. Establishing a robust framework of regulations and standards;
- v. Research & Development projects; and
- vi. Skill development initiatives.

The targets set under the Mission, by 2030, are as follows:

- i. India's Green Hydrogen production capacity to reach approximately 5 Million Metric Tonnes (MMT) per annum.
- ii. Mission to leverage over ₹8 lakh crore total investments and create over 6 lakh jobs.
- iii. Nearly 50 MMT per annum of CO₂ emissions are expected to be averted.

(c) The following initiatives have been launched under the Mission till 15th November, 2024:-

- i. Scheme Guidelines for implementation of "Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component I: Incentive Scheme for Electrolyser Manufacturing" issued on 28th June 2023. Under this scheme, 8

- companies have been allocated a cumulative capacity of 1.5 GW per annum of electrolyser manufacturing capacity.
- ii. Scheme Guidelines for implementation of “Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component II: Incentive Scheme for Green Hydrogen Production (under Mode 1)” issued on 28th June 2023. Under this scheme, 10 companies have been allocated a cumulative production capacity of 4,12,000 Tonnes per annum of Green Hydrogen.
 - iii. Scheme Guidelines for implementation of “Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component II: Incentive for Procurement of Green Ammonia Production (under Mode 2A)” issued on 16th January 2024.
 - iv. Scheme Guidelines for implementation of “Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component II: Incentive for Procurement of Green Hydrogen production (under Mode 2B)” issued on 16th January 2024.
 - v. Scheme Guidelines for implementation of Pilot projects for use of Green Hydrogen in the Shipping Sector issued on 1st February 2024.
 - vi. Scheme Guidelines for implementation of Pilot projects for use of Green Hydrogen in the Steel Sector issued on 2nd February 2024.
 - vii. Scheme Guidelines for implementation of Pilot projects for use of Green Hydrogen in the Transport Sector issued on 14th February 2024.
 - viii. Scheme Guidelines for the implementation of the Research & Development scheme issued on 15th March 2024.
 - ix. Scheme Guidelines for setting up Hydrogen Hubs in India issued on 15th March 2024.
 - x. Scheme Guidelines for scheme on skilling, up – skilling and re – skilling issued on 16th March 2024.
 - xi. Scheme Guidelines for implementation of “Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component I: Incentive Scheme for Electrolyser Manufacturing Tranche – II” issued on 16th March 2024. Under this scheme, 11 companies have been shortlisted for allocation of a cumulative capacity of 1.5 GW per annum of electrolyser manufacturing capacity on 27th August 2024.
 - xii. Scheme Guidelines for implementation of “Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme – Component II: Incentive Scheme for Green Hydrogen Production (under Mode 1) – Tranche II” issued on 3rd July 2024.
 - xiii. Scheme Guidelines for funding of testing facilities, infrastructure, and institutional support for development of Standards and Regulatory framework issued on 4th July 2024.
