

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2440
ANSWERED ON 03.08.2023

PRODUCTION OF GREEN HYDROGEN

2440. DR. BHARATIBEN DHIRUBHAI SHIYAL

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

- (a) the steps being taken by the Government to increase the production of green hydrogen;
- (b) whether any target related to production of green hydrogen has been fixed in the country and if so, the details thereof;
- (c) the expected/estimated demand of green hydrogen in the country by the year 2030; and
- (d) whether the Government would take the assistance of private companies for producing green hydrogen and if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)

(a) to (d) On 4th January 2023, the Union Cabinet approved the National Green Hydrogen Mission with an outlay of ₹ 19,744 crore. The overarching objective of the Mission is to make India a global hub for production, usage and export of Green Hydrogen and its derivatives. The Mission is expected to lead to development of 5 MMT Green Hydrogen production capacity per annum by 2030.

The Mission strategy *inter-alia* includes interventions for demand creation by making Green Hydrogen produced in India competitive for exports and through domestic consumption.

Other financial and non-financial measures announced under the Mission, to support development of green hydrogen projects by public and private sector, include *inter-alia*, the following: -

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

The demand of Green Hydrogen and its derivatives in the country by 2030 would depend on various factors, including technological readiness of potential sectors, relative costs, other economic factors, etc.

Several entities have announced plans to set up production facilities for Green Hydrogen/ Green Ammonia in India. These projects are expected to be implemented largely through private investments.
