

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1182
ANSWERED ON 09.02.2023

PRODUCTION OF GREEN HYDROGEN

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Will the Minister of New and Renewable Energy be pleased to state:

- (a) the total production of green hydrogen in the country, State/UT-wise;
- (b) the total production of green hydrogen from renewable and clean energy resources;
- (c) the steps taken/proposed to be taken by the Government to increase the production of green hydrogen through renewable and clean energy resources;
- (d) the quantum of funds released by the Government for improving the infrastructure for the production of green hydrogen; and
- (e) the steps taken/proposed to be taken by the Government to improve the infrastructure to store green hydrogen?

ANSWER

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

(a)&(b) Currently there is very limited production of Green Hydrogen in the country. Under Research and Development projects supported by Ministry of New and Renewable Energy, a 5 Nm³/h (normal cubic meter per hour) Green Hydrogen production plant based on solar energy and electrolysis has been established at Gurugram, Haryana and a 6 kg per hour Green Hydrogen production plant based on biomass gasification has been established at Bengaluru, Karnataka.

Details of some pilot projects set up in the country are as follows:

- (i) A Green Hydrogen manufacturing pilot plant of capacity 10 kg per day at Jorhat, Assam.
- (ii) A Green Hydrogen production plant of capacity 0.5 tonnes per annum at Kawas, Gujarat.
- (iii) A Green Ammonia plant in Bikaner, Rajasthan which produces Green Hydrogen at a rate of 500 Nm³ / hr - about 175 tonnes per annum.

(c) to (e) On 4th January 2023, the Union Cabinet approved the National Green Hydrogen Mission with an initial outlay of ₹ 19,744 crore, including ₹ 17,490 crore for the SIGHT programme, ₹ 1,466 crore for pilot projects and hydrogen hubs, ₹ 400 crore for R&D, and ₹ 388 crore towards other Mission components.

The following components have been announced as part of the Mission:

- I. Facilitating demand creation through exports and domestic utilization;
- II. Strategic Interventions for Green Hydrogen Transition (SIGHT) programme, which includes incentives for manufacturing of electrolysers and production of green hydrogen;
- III. Pilot Projects for 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.
