

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 448
ANSWERED ON 27/11/2024

PROMOTION OF GREEN HYDROGEN

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

- (a) whether it is a fact that the Government has decided to promote green hydrogen and solar energy as new renewable source of energy;
- (a) if so, the details thereof; and
- (b) the steps being taken to establish more electrolyzer and green hydrogen manufacturing units in the country?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a)& (b) The Ministry of New and Renewable Energy is already promoting solar energy as a renewable energy source. Total solar energy installed capacity in the country has already reached about 92.12 GW as on 31st October 2024.

Additionally, 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 was approved by the Union Cabinet in January 2023 with an overall outlay of Rs. 19,744 crore. The Mission has following components :

- 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. Establishing a robust framework of regulations and standards;
- v. Research and Development projects;
- vi. Skill development initiatives; and
- vii. Public awareness and outreach activities.

(c) Strategic Interventions for Green Hydrogen Transition (SIGHT) programme, is a key component under the Mission, which provides financial incentives for Green Hydrogen production and indigenous manufacturing of electrolyzers.

- i. Incentive scheme for electrolyser manufacturing:
 - 1) The financial support is extended for domestic manufacturing of electrolyzers based on various criteria including performance quotient of electrolyzers and local value addition

- 2) Scheme Guidelines for implementation of SIGHT Programme – Component I: Incentive Scheme for Electrolyser Manufacturing (Tranche – I), issued on 28th June 2023. Under this scheme, 8 companies have been allocated 1500 MW per annum of electrolyser manufacturing capacity.
 - 3) Scheme Guidelines for implementation of 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 1500 MW per annum of electrolyser manufacturing capacity on 27th August 2024.
- ii. Incentive scheme for Green Hydrogen production:
- 1) Scheme Guidelines for implementation of 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 4,12,000 Tonnes per annum of Green Hydrogen production capacity.
 - 2) Financial incentive is provided for production of Green Hydrogen for 3 years at the rate of Rs. 50/kg, Rs. 40/kg and Rs. 30/kg respectively.
