

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 3025
ANSWERED ON 21/12/2023

NATIONAL GREEN HYDROGEN MISSION

3025. SHRI MOHANBHAI KALYANJI KUNDARIYA
SHRI DIPSINH SHANKARSINH RATHOD
DR. BHARATIBEN DHIRUBHAI SHIYAL
SHRI SHANKAR LALWANI
SHRI RAVI KISHAN
SHRI JAMYANG TSERING NAMGYAL

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

- (a) the aims and objectives of the National Green Hydrogen Mission;
- (b) whether the Mission is likely to have any impact on augmenting India's energy needs;
- (c) if so, the details thereof; and
- (d) the details on the financial resources earmarked by the Government for the successful execution of the Mission?

ANSWER

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

(a) to (d) The Ministry of New and Renewable Energy is implementing the National Green Hydrogen Mission, approved by the Union Cabinet on 4th January 2023. The overarching objective of the Mission is to make India the Global Hub for production, usage and export of Green Hydrogen and its derivatives.

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 electrolyzers 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 including through a public-private partnership framework for R&D.
- viii. Skill development programme; and
- ix. Public awareness and outreach programme.

The expected impact of the Mission on augmenting India's energy needs, by 2030, are as follows:

- i. India's Green Hydrogen production capacity is likely to reach 5 MMT per annum, with an associated renewable energy capacity addition of about 125 GW, 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. Nearly 50 MMT per annum of CO₂ emissions are expected to be averted through production and use of the targeted quantum of Green Hydrogen.

The Government has earmarked a financial outlay of ₹ 19,744 crore till Financial Year 2029 - 30 for successful execution of the Mission.
