

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1415
ANSWERED ON 01/08/2023

BARRIERS ON MANUFACTURING OF GREEN HYDROGEN

1415. SHRI KARTIKEYA SHARMA

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

- a) the measures Government has taken or plans to take to counteract the adverse effects of barriers on the manufacturing of green hydrogen imposed by other countries and to promote a more inclusive and collaborative approach towards achieving a sustainable and low-carbon future;
- b) the steps Government is taking to raise awareness and garner support from the international community to address the issue of barriers on manufacturing green hydrogen and emphasize the importance of a collective effort in combating climate change; and
- c) the insights into the potential environmental benefits that can be derived from the widespread adoption and manufacturing of green hydrogen?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) to (c) On 4th January 2023, the Union Cabinet approved the National Green Hydrogen Mission with an outlay of Rs 19,744 crore. Various financial and non-financial measures have been announced under the Mission, including inter-alia, the following:-

- 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, 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.

The Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme, is a major financial measure with an outlay of ₹ 17,490 crore. The programme consists of two distinct financial incentive mechanisms to support domestic manufacturing of electrolyzers and production of Green Hydrogen. The Government has issued the Guidelines for incentive schemes for electrolyser manufacturing & production of Green Hydrogen.

The Mission is expected to lead to development of 5 MMT Green Hydrogen production capacity per annum by 2030.

It is estimated that nearly 50 MMT per annum of CO2 emissions can be averted through production and use of the targeted quantum of Green Hydrogen.

During G20 Energy Transitions Ministers Meeting held on 22nd July, 2023 under India's G20 Presidency, members discussed the importance of building a sustainable and equitable global hydrogen ecosystem that benefits all nations, and affirmed High level Voluntary Principles on Hydrogen, which inter-alia includes promotion of free and fair trade of hydrogen produced from zero and low emission technologies and its derivatives.

The Government is also cooperating with several countries bilaterally on development of green hydrogen sector.
