

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 2704**  
ANSWERED ON 12/08/2025

**NATIONAL GREEN HYDROGEN MISSION AND INDIGENOUS ENERGY SELF-SUFFICIENCY**

2704.SHRI TEJVEER SINGH

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

- (a) the number of industrial institutes or projects which have been given financial incentives or approval so far under the recently launched "National Green Hydrogen Mission";
- (a) whether India has included any global technological partnership or investment support in this mission; and
- (b) whether any scientific regulatory mechanism is in place to monitor water consumption, land use and carbon footprint in hydrogen production?

**ANSWER**

**THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER**

**(SHRI SHRIPAD YESSO NAIK)**

(a) & (b) The Government of India is implementing the National Green Hydrogen Mission (NGHM), with an objective to make India a global hub of production, usage and export of green hydrogen and its derivatives.

The Mission promotes global partnerships in the research, development and deployment of green hydrogen technologies and also facilitates investments in projects related to green hydrogen and its derivatives.

- Strategic Interventions for Green Hydrogen Transition (SIGHT) is a key component of the Mission which provides financial incentives for production of green hydrogen and electrolyser manufacturing. A production capacity of 8,62,000 tonnes per annum of green hydrogen has been allocated to 18 companies, while electrolyser manufacturing capacity of 3,000 MW per annum has been allocated to 15 companies.
- Total seven pilot projects have been sanctioned for use of green hydrogen in the steel sector.
- Five pilot projects are sanctioned for use of green hydrogen in road transport sector consisting total of 37 vehicles (buses and trucks), and 9 hydrogen refueling stations, on 10 different routes across the country.
- There are 23 projects awarded to various research institutions under the research & development scheme of NGHM for technological research, innovation and development on specific topics covering hydrogen production, applications and safety.

(c) The Green Hydrogen Certification Scheme of India (GHCI) has been published by the Ministry of New and Renewable Energy in April 2025 to establish a transparent and credible mechanism for the certification of Green Hydrogen produced in the country. GHCI aims to provide a holistic framework for the measurement, monitoring, and certification of green hydrogen production in India.

Green Hydrogen is defined as hydrogen that has a carbon footprint of 2 kgCO<sub>2</sub> equivalent or less per kg, measured from production to the factory gate (well – to – gate approach). As part of compliance procedure, hydrogen producers maintain daily records of hydrogen production, its parameters (physical and chemical) and energy consumption from various sources, both aggregated and disaggregated figures. In addition to fuel and electricity consumption, Hydrogen producers also maintain data of water consumption, feedstock consumption, losses, and other relevant information pertaining to the Hydrogen production process.

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