

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2211

ANSWERED ON 12/03/2025

STANDARDS FOR GREEN HYDROGEN

2211. SHRI BHARTRUHARI MAHTAB

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

- (a) the manner in which collaboration with the United Kingdom (UK) align with India's National Green Hydrogen Mission (NGHM);
- (b) the steps taken to ensure India develops globally harmonized Regulations, Codes and Standards (RCS) for green hydrogen;
- (c) whether any key gaps in India's current hydrogen standards were identified during the workshop; and
- (d) if so, the details thereof and the actions planned to address them?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) Under the Roadmap 2030 for India-UK future relations launched during India-UK Virtual Summit on 04 May, 2021, India and UK had agreed to deepen the India-UK Partnership on Green Hydrogen - including through promoting knowledge exchange, policy and regulation cooperation, research and innovation.

Under the India-UK Energy dialogue India and UK have cooperated for development of policies for Green Hydrogen.

(b) 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.

The Ministry of New and Renewable Energy had constituted a Working Group on Regulations and Standards in February 2022 for establishment of a supportive and robust framework of regulations, codes and standards for Green Hydrogen. The Working Group comprises of representatives from relevant Government agencies, regulatory agencies and industry stakeholders.

Six sub – groups have been constituted under the Working Group to work on different aspects of the Green Hydrogen value chain including

- i. Hydrogen Production and Use
- ii. Storage and Transportation of Hydrogen
- iii. Hydrogen Fuelled Mobility Applications
- iv. Aviation
- v. Shipping
- vi. Railways.

As on February 2025, 88 standards have been published/adopted by various regulatory organisations.

(c) & (d) Bureau of Indian Standards (BIS), in collaboration with BSI (British Standards Institution) hosted a "Workshop on Green Hydrogen" from 28 - 29th January 2025, which served as a knowledge exchange platform to strengthen standardization efforts in green hydrogen production, storage, transportation, and utilization, complementing the National Green Hydrogen Mission.

During the workshop, new subject areas were also identified to explore the possibility of further standardization, including blending hydrogen with piped natural gas (PNG) and its use in aviation and marine applications. The new subject identified for standardization is reviewed by the relevant Technical Committee (Sectional Committee) in BIS, and if accepted, the standard is then developed through multiple stages, including drafting, committee deliberations, stakeholder consultation through wide circulation, and finalization through consensus before publication.
