

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 691
ANSWERED ON 07/12/2023

NATIONAL GREEN HYDROGEN MISSION

691. SHRI RAJIV PRATAP RUDY

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

- (a) whether it is a fact that India's National green hydrogen mission aims for at least five million metric tons of annual production capacity by 2030 using renewable energy as the source;
- (b) if so, the progress made so far in this regard;
- (c) whether it is a fact that the country is committed to its Green hydrogen mission and desires global contribution in it;
- (d) whether it is a fact that India and Saudi Arabia have started preliminary discussion on green hydrogen cooperation, including exploring investment opportunities through companies, sharing of technology and joint research and development in the segment;
- (e) if so, the details thereof and the manner in which the country would strategically benefit from it;
- (f) whether it is a fact that both countries have been discussing a broader agreement on undersea cable grid connectivity; and
- (g) if so, the details thereof and progress made so far in this regard?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) & (b) National Green Hydrogen Mission (NGHM) launched on 4th January 2023, is expected to lead to development of 5 Million Metric Tons per annum of Green Hydrogen production capacity by 2030.

Request for Selection (RfS) has also been issued for Selection of Green Hydrogen Producers for Setting up Production Facilities of 450,000 tons for Green Hydrogen in India under the Strategic Interventions for Green Hydrogen Transition (SIGHT) Scheme (Mode-1-Tranche-I) on 10th July 2023. Last date for submission of bids is 12th December 2023.

Request for Selection (RfS) has been issued for the Selection of Electrolyser Manufacturers (EM) for Setting up 1.5 GW annual Electrolyser Manufacturing Capacities under SIGHT Scheme (Tranche-I) on 7th July 2023. Last date for submission of bids is 12th December 2023.

(c) Yes,

The National Green Hydrogen Mission aims to develop India as a global hub for production, usage and exports of Green Hydrogen and its derivatives. The Mission is expected to promote multilateral engagement and collaboration with various international efforts in Hydrogen and fuel cells. Cooperation among Academia, universities, technical institutions, industry and research laboratories is likely to be facilitated under bilateral and multilateral collaboration programmes for result-oriented technology development, knowledge creation and dissemination.

G20 New Delhi Leaders' Declaration affirmed 'G20 High Level Voluntary Principles on Hydrogen' to build a sustainable and equitable global hydrogen ecosystem that benefits all nations. The Declaration also emphasised a free and fair trade of hydrogen in line with WTO rules supported by resilient and diversified supply chains.

(h)&(e) India and Saudi Arabia signed an MoU in the field of Energy on 10th September, 2023. The MoU, *inter-alia*, envisages cooperation in the field of Hydrogen, Electricity and Grid Interconnection between the two countries, Renewable Energy, Energy Efficiency, Petroleum, Natural Gas, Strategic Petroleum Reserves and Energy Security.

Further, India and Saudi Arabia signed an MoU in the fields of Electrical Interconnection, Green/Clean Hydrogen and Supply Chains on 8th October 2023.

This strategic collaboration is expected to be advantageous for both countries, as they can leverage each other's capabilities to foster the growth of Green Hydrogen ecosystem within their respective nations.

(f) & (g) The areas of cooperation under the aforesaid MoU signed on 08th October 2023, includes:-

“Conducting necessary feasibility studies (technical, economic and environmental) for the purpose of electrical interconnection between the two countries and co – development of projects and co – production of Green/Clean Hydrogen and renewable energy in both countries.”
