

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 6012
ANSWERED ON 01.04.2026

MOBILISING INVESTMENT FOR GREEN HYDROGEN PRODUCTION

6012. SHRI SELVAGANAPATHI T.M.

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

- (a) whether it is a fact that the National Green Hydrogen Mission (NGHM) targets 5 million tonnes of production by the year 2030 and if so, the details thereof;
- (b) whether it is also a fact that the country's plan to reach 500 GW of non-fossil capacity by the year 2030 would require an investment of around Rs. 30 lakh crore and if so, the details thereof;
- (c) whether it is also a fact that the Government plans to mobilize the required investment through green bonds, blended finance structures and multilateral participation alongside growing interest from global investors seeking long term stable returns; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) 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 aims to establish Green Hydrogen production capacity of 5 Million Metric Tonnes (MMT) per annum by 2030.

(b) to (d) As per the Indian Renewable Energy Development Agency (IREDA) report "*Investment and Financing in Renewable Energy and Associated Infrastructure*", an estimated investment of Rs.30.54 Lakh Crores is envisaged from year 2023-24 till year 2029-30, for achieving the target of 500 GW non-fossil based power capacity by 2030. The details of estimated total investment requirement, including generation, transmission, and manufacturing infrastructure are at **Annexure**.

The Government has adopted a multi-pronged strategy to mobilize the required investment, leveraging a mix of green bonds, blended finance mechanisms, multilateral and bilateral climate finance, along with increasing participation from domestic and global investors seeking stable long-term returns.

These measures have contributed to sustained investor interest, with foreign direct investment (FDI) inflows of about USD 19.3 Billion received in renewable energy sector from year 2013-14 till year 2024-25. During the same period, total capital deployed in the sector is estimated at around ₹ 10.79 lakh crore, reflecting the strong momentum in the investment and sectoral growth.

Overall expected investments in RE & enabling infrastructure (including Manufacturing & Transmission) by 2030

To achieve India's 2030 ambitions, India needs to massively scale up funding for renewables. Below are the projections for Investments in-line with India's 500 GW ambition:

Sector	Capacity Additions Expected	Expected Investment (Crores)
<u>Renewable Energy Estimates</u>		
Solar	226 GW	~1,147,000
Wind (Onshore + Offshore)	57 GW	~419,500
Large Hydro	12 GW	~146,000
Small Hydro	0.4 GW	~2,700
PSP	14 GW	~121,000
BESS	42 GW	~308,000
Biomass and WTE	4 GW	~38,000
<u>Other Key technologies</u>		
Bioethanol	1,701 Cr liter pa	~41,000
Bio-Diesel	695 Cr liter pa	
Compressed Biogas	15 MMT	~92,000
Manufacturing Investments (Solar, Electrolyzer, Wind & Battery)	Under Solar PLI -48 GW Electrolyzer - 10 GW	~199,000
Transmission	50,890 cKM + 433,575 MVA + Green Energy Corridors	~260,000
Green Hydrogen (excluding Renewables)	5 MTPA	~280,000
Total expected investments (excluding large hydro)		~2,908,200
Total expected investments (including large hydro)		~3,054,200

This data has been compiled from multiple reports/documents published by Ministries (MNRE and others), their respective agencies including CEA and secondary research on various topics.