

**LOK SABHA**  
**UNSTARRED QUESTION NO. 3310**  
TO BE ANSWERED ON 20<sup>th</sup> MARCH, 2025

**GLOBAL ENERGY PARTNERSHIPS**

†3310. SHRI MANISH JAISWAL  
SHRI BIBHU PRASAD TARAI:

पेट्रोलियम और प्राकृतिक गैस मंत्री

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) the manner in which Global Energy partnerships align with India's long-term energy security and transition goals;
- (b) the role of renewable energy and clean fuels in India's global energy cooperation;
- (c) the manner in which India plans to attract foreign investment in green hydrogen, biofuels and carbon capture technologies; and
- (d) whether there are any collaborative efforts with global energy firms on research and development in energy efficiency and digital transformation, if so, the details thereof?

**ANSWER**

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्य मंत्री  
(श्री सुरेश गोपी)

**MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS**  
**(SHRI SURESH GOPI)**

**(a) to (d):** India's leadership and participation in global energy partnerships such as Global Biofuels Alliance (GBA), International Solar Alliance (ISA), International Renewable Energy Agency (IRENA), Indo-Pacific Economic Framework for Prosperity (IPEF), Clean Energy Ministerial, Clean Cooking Ministerial, Energy Transition Working Group of the G20, Energy Ministers Dialogue under QUAD, Voice of Global South Summit & Shanghai Cooperation Organisation (SCO) amongst others, enable India to put across its views and influence outcomes/deliberations in respect of energy security, access & sustainability.

India's strong advocacy in such global energy partnerships provide opportunity for sharing of best practices, fostering resilient value chains, advancing technology development, exploring low cost financing for deployment of renewable energy projects and clean fuels.

Government have opened the hydrocarbon sector to 100% foreign direct investment (FDI) under the automatic route, which eliminates prior approval requirements. To support Net Zero by 2070, Government is also supporting setting up of advanced biofuel production plants, especially using non-edible biomass, and accelerating carbon capture, utilization, and storage (CCUS) infrastructure. 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. To foster National Green Hydrogen Mission, Oil Companies are actively working on development of hydrogen value chain including Hydrogen production, storage, transportation, and utilization. These initiatives have opened up opportunities for partnership & foreign investments.

Oil and Gas PSUs have signed Memorandum of Understandings (MoUs) with global energy companies on R&D activities such as AI-air battery integration in Electric Vehicles, finalizing the Proof-of-concept for electro-biocatalytic conversion of CO<sub>2</sub> to alcohols, decarbonization, and low-carbon opportunities, leveraging joint expertise for sustainable growth, clean fuel technologies, process automation, streamlining vendor payment system, wave energy, offshore exploration, emission monitoring and energy efficiency solutions, etc. to enhance energy efficiency and promote digital transformation.

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