

GOVERNMENT OF INDIA
MINISTRY OF STEEL

LOK SABHA
UNSTARRED QUESTION NO. 5025
FOR ANSWER ON 01.04.2025

DECARBONIZATION IN THE STEEL SECTOR

5025. SHRI SHASHANK MANI:

Will the Minister of STEEL be pleased to state:

- (a) whether the Government has taken steps towards decarbonization and improving resource efficiency in the steel sector, if so, the details thereof;
- (b) whether specific technologies or practices, such as green hydrogen, carbon capture or recycling initiatives, to reduce carbon emissions in steel production, if so, the details thereof;
- (c) the details of collaborations with the private sector or international organizations to accelerate the transition to sustainable and low-carbon steel manufacturing; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE IN THE (SHRI BHUPATHIRAJU SRINIVASA VARMA)
MINISTRY OF STEEL

(a)&(b): The steps including adoption of green technologies, carbon capture and recycling initiatives taken by Government to decarbonize the steel sector in India are as under:-

- i. Ministry has released the Taxonomy for Green Steel to provide standards for defining and categorizing the low emission steel.
- ii. Ministry of Steel has released a report titled "Greening the Steel Sector in India: Roadmap and Action Plan" in alignment with the recommendations of the 14 Task Forces constituted by this Ministry for this purpose which provides the future roadmap for green steel and sustainability, towards net-zero target by 2070. The report is available on Ministry of Steel's website.
- iii. Ministry of Steel has awarded 07 pilot projects for implementation of pilot projects for use of hydrogen in steel sector under National Green Hydrogen Mission launched by Ministry of New & Renewable Energy.
- iv. National Solar Mission launched by Ministry of New and Renewable Energy in January, 2010 promotes the use of solar energy and also helps to reduce the emission of steel industry.
- v. The Ministry of Road Transport and Highways (MoRTH) has formulated the Vehicle Scrapping Policy that includes a system of incentives/disincentives for creation of an ecosystem to phase out older, unfit polluting vehicles. Under the policy, MoRTH has issued rules for Registration and Functions of Vehicle Scrapping Facility (RVSF), which provides the procedures and infrastructure facilities required for de-pollution and dismantling of End-of-Life Vehicles (ELVs) for further recovery of metal and other materials under environmental regulations.

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vi. Ministry of Mines has brought out 'National Non-ferrous Metal Scrap Recycling Framework, 2020' to promote a formal and well-organized recycling ecosystem. The Framework lays down standard procedures for recycling and processing of scrap and developing a mechanism for facilitating the Metal scrap recycling activities.

vii. Ministry of Environment, Forest & Climate Change has introduced the Environment Protection (End-of-Life Vehicles) Rules, 2025, which establishes a framework for managing End-of-Life Vehicles (ELVs) in an environmentally sound manner and mandates Extended Producer Responsibility (EPR), requiring vehicle producers to meet annual scrapping targets based on the type of vehicle and materials recovered.

viii. The Carbon Credit Trading Scheme (CCTS) has been notified by the Government (Ministry of Power) on 28th June, 2023, which provides an overall framework for the functioning of the Indian Carbon Market.

(c)&(d): CPSEs of Ministry of Steel are collaborating with eminent technology providers such as M/s BHP from Australia, M/s SMS from Germany, M/s Primetal Technologies from United Kingdom, M/s John Cockerill India Limited from Belgium, M/s Ram Charan Company Pvt. Ltd., Madras, National Centre of Excellence in Carbon Capture and Utilization (NCoE-CCU) of IIT, Bombay and Great Eastern Energy Corporation Ltd. to promote low carbon steel production.
