

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION No. 1401
ANSWERED ON 14/12/2023

R&D strategy for emerging technologies

1401 Shri Sujeet Kumar :

Will the Minister of Science and Technology be pleased to state:

- (a) whether, for the progressive revision and timely achievement of Nationally Determined Contributions (NDCs) and given the low levels of expenditure on R& D in India, Government proposes to develop a targeted R&D strategy for the emerging technologies that hold promise beyond 2030;
- (b) if so, the details thereof; and
- (c) if not, the reasons therefor?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE)
FOR THE MINISTRY OF SCIENCE AND TECHNOLOGY
(DR. JITENDRA SINGH)

(a) & (b) Yes, the Government is planning to develop a targeted R&D strategy for the emerging technologies that hold promise beyond 2030, for the progressive revision and timely achievement of Nationally Determined Contributions (NDCs). In this regard, an independent study report on 'Decarbonising India: Charting a pathway for sustainable growth' has been brought out by McKinsey Sustainability in October 2022. To achieve India's NDCs and net-zero targets, the report identifies some of the key sectors for intervention such as Power, Transport, Cement, Steel and Agriculture. All the key ministries and Government departments are systematically catalyzing their investments to boost Research & Development (R&D) on emerging technologies to attain India's ambitious journey towards a net-zero future. Department of Science and Technology is also working on some of the key enabling technologies of decarbonising such as Green hydrogen, Carbon Capture, Utilisation and Storage (CCUS) and Energy materials for harvesting and storage. Overall, India's journey towards a net-zero future demands a deep understanding of sector-specific challenges, selection of low carbon technologies, innovation, and appropriate commercial pathways for energy transition with harmonious blend of traditional and modern approaches for a sustainable future.

(c) Does not arise.
