

LOK SABHA
UNSTARRED QUESTION No. 2306
TO BE ANSWERED ON 13th March, 2025

ENVIRONMENTAL IMPACT OF ETHANOL BLENDING

†2306. SHRI DARSHAN SINGH CHOUDHARY:

पेट्रोलियम और प्राकृतिक गैस मंत्री

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

- (a) the details of the steps/measures being taken to achieve broad clean energy targets in the country;
- (b) whether the Government has a plan to assess the long-term environmental impact of ethanol blending, if so, the details thereof; and
- (c) the additional measures being taken by the Government to further reduce the carbon footprint in the country?

ANSWER

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

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

(a) to (c): Government have taken a number of initiatives to achieve clean energy targets. These, *inter-alia*, include support for investing in solar and wind power through initiatives like PM-KUSUM, National Green Hydrogen Mission, scheme for setting up Solar Parks and ultra-mega solar power projects, Energy Conservation and Sustainable Building Code (ECSBC) for commercial and residential buildings, Unnat Jyoti by Affordable LEDs for All (UJALA) etc. Apart from this, to reduce emissions from the transport sector, the Government has been implementing Ethanol Blending programme, SATAT, introduction of the FAME scheme to promote electric vehicles (EVs) through subsidies and infrastructure development and building an extensive network of EV charging stations.

To create a market-based mechanism that incentivizes reduction in carbon emissions and to facilitate investment in clean technologies and promote renewable energy sources, Government has notified the Carbon Credit Trading Scheme (CCTS) in June, 2023 and amended in December, 2023, under the Energy Conservation Act, 2001.

As per the “Roadmap for Ethanol Blending in India 2020-25”, prepared by an inter-Ministerial Committee, a successful E20 (20% ethanol blending in petrol) is estimated to result in reduction of carbon monoxide emission of about 50% in two wheelers and 30% in four wheelers through using E20 compared to E0 (neat petrol). Hydrocarbon emissions are estimated to reduce by 20% in both two wheelers and passenger cars.
