

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM AND NATURAL GAS

RAJYA SABHA
UNSTARRED QUESTION NO. 2862
ANSWERED ON.- 18/08/2025

PROGRESS OF HYDROGEN BLENDING IN CGD NETWORKS

2862. SMT. REKHA SHARMA:

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

- (a) whether pilot hydrogen blending has been initiated in City Gas Distribution (CGD) networks;
- (b) the locations where blending is underway; and
- (c) whether safety and efficiency parameters have been codified?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS

(SHRI SURESH GOPI)

(a) to (b) Government have been promoting blending of Hydrogen in City Gas Distribution (CGD) networks in line with the objectives of the National Green Hydrogen Mission (NGHM). Petroleum and Natural Gas Regulatory Board (PNGRB) has authorised five pilot projects for hydrogen blending in CGD networks, with blending ranges between 2% and 5% volume/volume (v/v).

At present, blending is operational at three locations — NTPC Kavas Township in Surat (Gujarat); Shantigram area in Ahmedabad (Gujarat) and in M/s OIL Township in Jorhat (Assam).

(c) Oil Industry Safety Directorate (OISD), a technical directorate under MoPNG, has brought out a standard on “Safety in the Production, Storage and Transportation of Hydrogen and Hydrogen blends”. The standard has guidelines related to safety aspects, like prescribing requirement of quantitative risk assessment, hazard area classification, hazard and operability study, odorization, following management of change etc, to be considered for hydrogen blending.
