

GOVERNMENT OF INDIA  
MINISTRY OF PETROLEUM & NATURAL GAS

**RAJYA SABHA STARRED  
QUESTION NO.4  
ANSWERED ON 04.12.2023**

**Production of petroleum and natural gas in Assam**

**\*4.Shri Pabitra Margherita:**

Will the Minister of Petroleum and Natural Gas be pleased to state:

(a) the amount of production of petroleum and natural gas in the State of Assam specifically and also in the country as a whole by value and quantity from 2020-22 and the import figures of the same during the mentioned time period; and

(b) the steps taken by Government to reduce our import dependency on petroleum and natural gas?

**ANSWER**

**MINISTER OF PETROLEUM AND NATURAL GAS**  
**(SHRI HARDEEP SINGH PURI)**

(a) to (b): A statement is laid on the Table of the House.

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**Statement referred to in reply to parts (a) to (b) in respect of Rajya Sabha Starred Question No. 4 for reply on 04.12.2023 regarding production of petroleum and natural gas in Assam asked by Shri Pabitra Margherita.**

(a) Details of production of crude oil and natural gas in the State of Assam specifically and in the country as a whole from 2019-20 to 2022-23 are given below:

Financial Year	Production of Crude Oil and Natural Gas in Assam	Value of Crude Oil and Natural Gas production in Assam*	Production of Crude Oil and Natural Gas in India	Value of Crude Oil and Natural Gas production in the country*
	In MMTOE	Value in Rs. crore	In MMTOE	Value in Rs. crore
2019-20	7.49	18068.7	63.4	149314.4
2020-21	7.14	12314.2	59.2	99789.6
2021-22	7.60	21163.0	63.7	164220.4
2022-23	8.08	31224.7	63.7	241137.2

Source: DGH/PPAC, MMTOE: Million Metric Tonne Oil Equivalent

\* Estimated value based on prevailing Indian Basket Price

Details of imports of crude oil and natural gas from 2019-20 to 2022-23 are given below:

Financial Year	Import of Crude Oil		Imports of LNG(Natural Gas)	
	In MMT	Value in Rs. Crore	In MMT	Value in Rs. Crore
2019-20	226.95	717001	25.58	67383
2020-21	196.46	459779	25.06	58329
2021-22	212.38	901262	23.42	100521
2022-23	232.70	1260372	19.85	137210

Source: PPAC, MMT: Million Metric Tonne, LNG: Liquefied Natural Gas

- (b) To reduce imports and improve energy security, the Government has adopted a multi-pronged strategy comprising increasing domestic production of oil and gas, promoting energy efficiency and conservation measures, giving thrust on demand substitution, promoting biofuels and other alternate fuels/ renewables, EV charging facilities and refinery process improvements for reducing the country's oil dependence on imported crude oil.

➤ **Increasing Domestic Exploration and Production**

- Increase the net geographical area under exploration from 2.5 lakh square kilometre (SKM) to 5 lakh SKM.
- "No Go" areas in EEZ have been reduced by almost 99% due to which 10 lakh SKM area is now free in EEZ for E&P Activity.
- The Government of India has opened 99% of the "No-Go" area of the Exclusive Economic Zone (EEZ) for Hydrocarbon Exploration & Development.
- Total operational area (active) under various licensing regimes is 3,27,456 SKM which includes exploration and exploitation of unconventional hydrocarbons like Coal Bed Methane (CBM).
- Other initiatives like renewal, replacement and addition of facilities and infrastructure.
- Improved and enhanced oil recovery using suitable technologies, replacement and revival of sick and old wells.

- To attract foreign investment in the E&P sector in India, the data on Indian sedimentary basins has been made available on National Data Repository (NDR) for open viewing and purchase by interested parties and a data centre has been opened in the campus of University of Houston for ease of data viewing by the International Oil Companies (IOCs).
- Government has made transformational changes in Model Revenue Sharing Contract (MRSC) and terms of Notice Inviting Offer (NIO) to make them simpler and attractive to bidders.
- Indian National Oil Companies (NOCs) (ONGC and OIL) have executed several agreements with International Oil Companies (IOCs) (ExxonMobil, Chevron, TotalEnergies) for collaboration in E & P activities and are also in discussions with BAPCO, JAPEX and Mitsui.

➤ **Biofuel Blending Programmes like Ethanol, Compressed Bio Gas (CBG), etc**

- Ethanol blending in petrol has increased from 1.53% in 2013-14 to 12 % in ESY 2022-23. Ethanol procurement has been to the tune of 508.9 crore litres in ESY 2022-23. Total crude oil substitution achieved during 2014-2023 is 142 lakh MT.
- E20 was rolled out at 84 retail outlets in 11 States/UTs on 8<sup>th</sup> February 2023, ahead its roll-out target of April 2023. The number of retail outlets retailing E20 is now more than 6000.
- Promotion of second generation ethanol to supplement supply of ethanol through Pradhan Mantri JI-VAN Yojana.
- Promotion and increase production of CBG through Sustainable Alternative Towards Affordable Transportation (SATAT) and other initiatives like blending in Natural Gas to substitute Natural Gas. 50 CBG plants with an installed capacity of approximately 300 MT per day have already been commissioned under SATAT. Sale of CBG has been initiated from more than 130 Retail Outlets. During 2022-23, OGMCs have procured 11,227 Ton CBG. Further, during April, 2023 to October, 2023 OGMCs have procured 9548 Ton CBG.
- In a major step towards enhancing use and adoption of CBG, the National Biofuels Coordination Committee (NBCC) has approved the introduction of phase wise mandatory blending of CBG in CNG (Transport) & PNG (Domestic) segments of CGD sector. The key objectives of the CBG Blending Obligation (CBO) are to stimulate demand for CBG in CGD sector, import substitution for Liquefied Natural Gas (LNG), saving in Forex, promoting circular economy and to assist in achieving the target of net zero emission etc. CBO will be voluntary till FY 2024-2025 and mandatory blending obligation would start from FY 2025-26.

➤ **Adoption of Alternate Energy Sources like LNG, Hydrogen, EV**

- The authorized entities at their Retail Outlets are required to install facilities for marketing at least one new generation alternate fuels like Compressed Natural Gas (CNG), Biofuels, Liquefied Natural Gas (LNG), Electric Vehicle charging points, etc.
- As on 01.11.2023, 9487 EV charging station & 119 battery swapping stations have been installed. Recently, tender for procurement/installation of 8,000 number EVs stations has been floated by OMCs.
- The Green Hydrogen Mission announced by the Government to promote growth of green hydrogen. This *inter-alia* includes significant contribution of oil & gas companies through replacement of conventional hydrogen derived from Natural Gas with green hydrogen, use of Green Hydrogen for mobility, etc.

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