Snapshot of India's Oil & Gas data

Monthly Ready Reckoner

April-2024

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Petroleum Planning & Analysis Cell (PPAC), an attached office of the Ministry of Petroleum & Natural Gas (MoPNG), Government of India, collects and analyses data on the Oil and Gas sector. It disseminates many reports on the Oil & Gas sector to the various stakeholders. The data is obtained from the Public Sector companies, Government agencies as well as the Private companies. Given the ever-increasing demand for energy and transition of energy demand to renewables and Biofuels, Policy makers and Analysts need to be well informed about the updated trends in the Oil & Gas industry.

The Snapshot of India's Oil & Gas data (Monthly Ready Reckoner), released by PPAC, provides monthly data/information in a single volume for the latest month and historical time series. The Snapshot of India's Oil & Gas data is also published on PPAC's website (www.ppac.gov.in) and is accessible on mobile app-PPACE.

This publication is a concerted effort by all divisions of PPAC. The cooperation of the Oil and Gas industry is acknowledged for their timely inputs.

Note: Reported data may undergo change on receipt of actuals

Table of contents

Highlights for the month

- Indigenous crude oil and condensate production during April 2024 was 2.4 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.6 MMT whereas PSC/RSC registered production of 0.5 MMT during April 2024. There is a growth of 1.6% in crude oil and condensate production during April 2024 as compared to April 2023.
- Total Crude oil processed during April 2024 was 21.6 MMT which is 0.8% higher than April 2023, where PSU/JV refiners processed 14.5 MMT and private refiners processed 7.1 MMT of crude oil. Total indigenous crude oil processed was 2.2 MMT and total Imported crude oil processed was 19.4 by all Indian refineries (PSU+JV+PVT).
- Crude oil imports increased by 7.0% during April 2024 as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for April 2023 of $ 10.1 billion, the net import bill for Oil & Gas for April 2024 was $ 12.3 billion. Out of which, crude oil imports constitutes $ 13.0 billion, LNG imports $1.1 billion and the exports were $ 3.7 billion during April 2024.
- The price of Brent Crude averaged $90.15/bbl during April 2024 as against $85.48/bbl during March 2024 and $84.94/bbl during April 2023. The Indian basket crude price averaged $89.46/bbl during April 2024 as against $84.49/bbl during March 2024 and $83.76 /bbl during April 2023.
- Production of petroleum products was 23.4 MMT during April 2024 which is 3.9% higher than April 2023. Out of 23.4 MMT, 23.1 MMT was from refinery production & 0.3 MMT was from fractionator. Out of total POL production, in April 2024, share of HSD is 42.0 %, MS 15.7 %, Naphtha 6.7 %, ATF 6.6 %, Pet Coke 5.2 %, LPG 4.4% which are of major products and rest are shared by Bitumen, FO/LSHS, LDO, Lubes & others.
- POL products imports increased by 35.3% during April 2024 as compared to the corresponding period of the previous year. Increase in POL products imports during April 2024 were mainly due to increase in imports of liquified petroleum gas (LPG), petcoke etc.

•	Exports of POL products increased by 9.6% during April 2024 as compared to the corresponding period of the previous year. Increase in POL products exports during April 24 were mainly due to increase in exports of fuel oil (FO), naphtha and high-speed diesel (HSD) etc,.
•	The consumption of petroleum products during April 2024, with a volume of 19.9 MMT, reported a growth of 6.1 % compared to the volume of 18.7 MMT during the same period of the previous year. This growth was led by 14.1% growth in MS, 1.3% in HSD & 13.1% in ATF, 9.4% in LPG & 3.9% in Naptha consumption besides Lubes, and Petcoke during the period.
•	Ethanol blending with Petrol was 12.7% during April 2024 and cumulative ethanol blending during November2023- April 2024 was 12.1%. As on 30.04.2024, 13,569 PSU outlets out of 81,529 total PSU Retail Outlets are dispensing E20 Ethanol Blended MS.
•	Total Natural Gas Consumption (including internal consumption) for the month of April 2024 (P) was 5515 MMSCM which was 6.4 % higher than the corresponding month of the previous year.
•	Gross production of natural gas for the month of April 2024 (P) was 2958 MMSCM which was higher by 7.8 % compared with the corresponding month of the previous year.
•	LNG import for the month of April 2024 (P) was 2608 MMSCM which was 3.7 % higher than the corresponding month of the previous year.

PART-A

Economic Indicators

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Population (basis RGI projections)	Billion	1.309	1.337	1.351	1.365	1.377	1.388
2	GDP at constant (2011-12 Prices)	Growth %	6.5 2nd RE	4.0 1st RE	-6.6 1st RE	9.1 1st RE	7.2 PE	7.6 (E)
3	Agricultural Production (Food grains)	MMT	285.2	297.5	310.7	315.7 4th AE	323.6 2nd AE	323.6
		Growth %	0.1	4.3	4.5	1.6	2.5	0.0
4	Gross Fiscal Deficit (as percent of GDP)	%	3.4	4.6	9.5 RE	6.7 RE	6.4 RE	5.9 RE

	Economic indicators	Unit/ Base	2021-22	2022-23	April-March		April	
					2022-23	2023-24 (P)	2023-24	2024-25 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	5.2#	5.8#	1.9#	4.9
6	Imports^	$ Billion	611.9	714.2	716.0	677.2	49.1	54.1
7	Exports^	$ Billion	422.0	451.0	451.1	437.1	34.6	35.0
8	Trade Balance	$ Billion	-189.9	-263.2	-264.9	-240.2	-14.4	-19.1
9	Foreign Exchange Reserves @	$ Billion	617.6	578.4	578.4	645.6	588.7	637.9

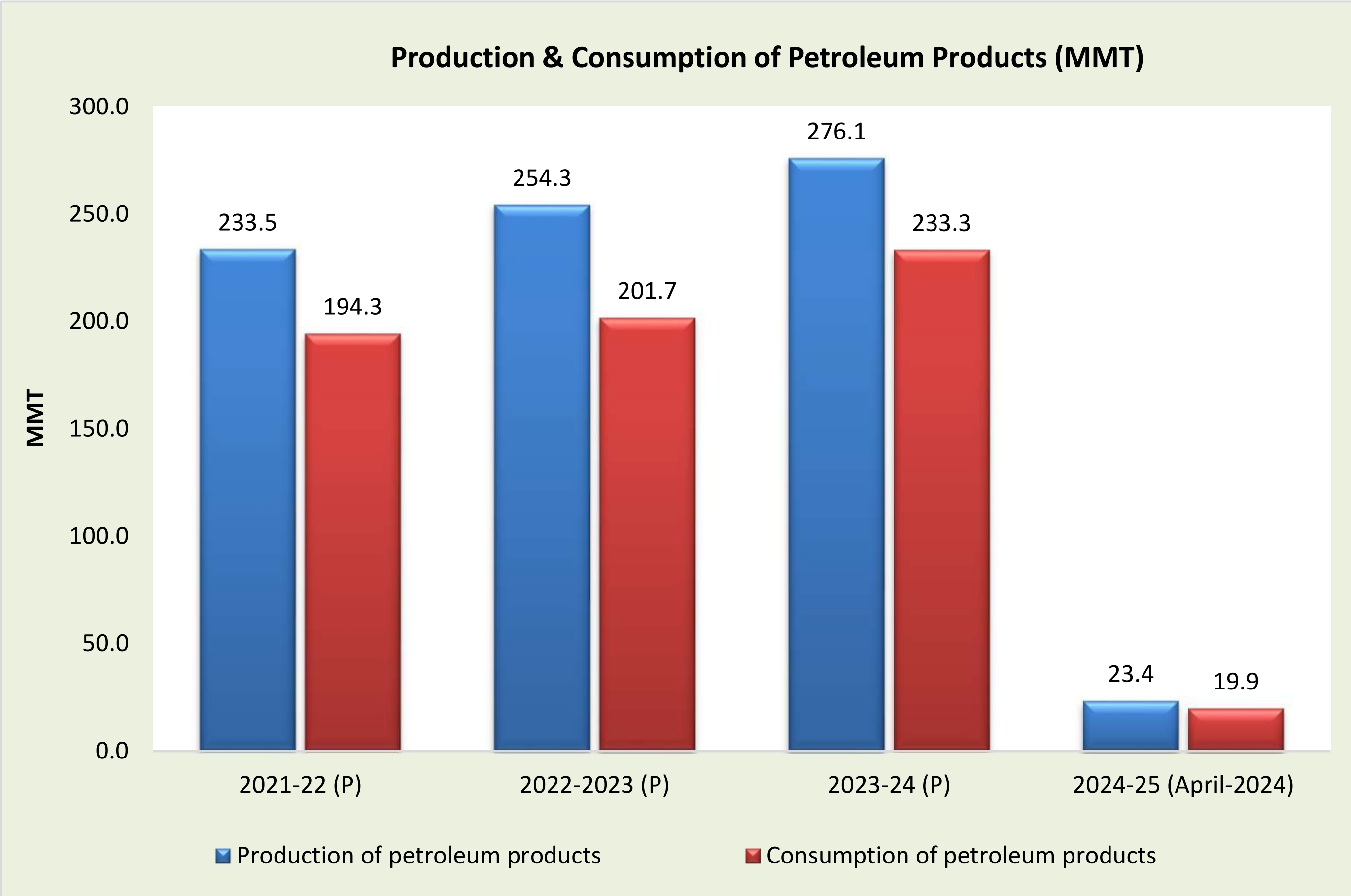
Population projection by RGI is taken as on 1st July for the year. IIP is for the month of *Mar'24 and #April-Mar'24; @ 2021-22 - as on March 25,2022, 2022-23 as on March 31, 2023,2023-24 as on March 29,2024,April 2023 as on April 28, 2023 and April, 2024 as on April 26, 2024; ^Imports & Exports are for Merchandise for the month of April 2023 and April 2024.; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

Source: Registrar General India**,** Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

2. Crude oil, LNG and petroleum products at a glance

	Details	Unit/ Base	2021-22 (P)	2022-23 (P)	April-March		April	
					2022-23 (P)	2023-24 (P)	2023-24 (P)	2024-24 (P)
1	Crude oil production in India#	MMT	29.7	29.2	29.2	29.4	2.4	2.4
2	Consumption of petroleum products*	MMT	194.3	201.7	223.0	233.3	18.7	19.9
3	Production of petroleum products	MMT	233.5	254.3	266.5	276.1	22.5	23.4
4	Gross natural gas production	MMSCM	34,024	34,450	34,450	36,438	2,745	2,958
5	Natural gas consumption	MMSCM	64,159	59,969	59,969	67,067	5,185	5,515
6	Imports & exports:							
	Crude oil imports	MMT	212.4	232.7	232.7	233.1	20.0	21.4
		$ Billion	120.7	157.5	157.5	132.8	10.9	13.0
	Petroleum products (POL) imports*	MMT	39.0	44.6	44.6	48.2	3.2	4.3
		$ Billion	23.7	26.9	26.9	23.1	1.5	2.1
	Gross petroleum imports (Crude + POL)	MMT	251.4	277.3	277.3	281.3	23.2	25.7
		$ Billion	144.3	184.4	184.4	156.0	12.4	15.2
	Petroleum products (POL) export	MMT	62.8	61.0	61.0	62.4	4.4	4.8
		$ Billion	44.4	57.3	57.3	47.7	3.3	3.7
	LNG imports*	MMSCM	31,028	26,304	26,304	31,350	2,514	2,608
		$ Billion	13.5	17.1	17.1	13.3	1.1	1.1
	Net oil & gas imports	$ Billion	113.4	144.2	144.2	121.6	10.1	12.6
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	302.8	272.3	20.3	26.5
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	12.7	10.9	7.9	8.9
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	86.0	87.4	87.8	88.6	88.4

#Includes condensate; *Private direct imports are prorated for the period March'24 to April'24 for POL. LNG Imports figure from DGCIS are prorated for Mar'24 to Apr'24.Total may not tally due to rounding off.


Production & Consumption of Petroleum Products (MMT)
MMT
300.0
250.0
200.0
150.0
100.0
50.0
0.0
233.5
194.3
254.3
201.7
276.1
233.3
23.4
19.9
2021-22 (P)
2022-2023 (P)
2023-24 (P)
2024-25 (April-2024)
Production of petroleum products
Consumption of petroleum products

PART-B

Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2021-22	2022-23 (P)	April-March			April		
			2022-23 (P)	2023-24 Target*	2023-24 (P)	2023-24 (P)	2024-25 Target*	2024-25 (P)
ONGC	18.5	18.4	18.4	19.2	18.1	1.5	1.6	1.5
Oil India Limited (OIL)	3.0	3.2	3.2	3.4	3.3	0.3	0.3	0.3
Private / Joint Ventures (JVs)	7.0	6.2	6.2	7.4	5.7	0.5	0.5	0.5
Total Crude Oil	**28.4**	**27.8**	**27.8**	**30.0**	**27.2**	**2.3**	**2.4**	**2.2**
ONGC condensate	0.9	1.0	1.0	0.0	1.1	0.1	0.0	0.1
PSC condensate	0.3	0.3	0.3	0.0	1.1	0.0	0.0	0.1
Total condensate	**1.2**	**1.4**	**1.4**	**0.0**	**2.2**	**0.1**	**0.0**	**0.2**
Total (Crude + Condensate) (MMT)	**29.7**	**29.2**	**29.2**	**30.0**	**29.4**	**2.4**	**2.4**	**2.4**
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.59	0.60	0.59	0.58	0.59	0.59

*Provisional targets inclusive of condensate. Targets are of FY 2023-24.

4. Domestic and overseas oil & gas production (by Indian Companies)

Details	2021-22	2022-23 (P)	April-March		April	
			2022-23 (P)	2023-24 (P)	2023-24 (P)	2024-25 (P)
Total domestic production (MMTOE)	63.7	63.6	63.6	65.8	36.8	38.9
Overseas production (MMTOE)	21.8	19.5	19.5	19.9	1.7	1.6

Source: ONGC Videsh, GAIL, OIL , IOCL, HPCL & BPRL

5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)

	Details	2021-22	2022-23 (P)	April-March		April	
				2022-23 (P)	2023-24 (P)	2023-24 (P)	2024-25 (P)
1	High Sulphur crude	185.0	197.9	197.9	205.3	16.8	17.3
2	Low Sulphur crude	56.7	57.4	57.4	56.3	4.7	4.3
Total crude processed (MMT)		**241.7**	**255.2**	**255.2**	**261.5**	**21.5**	**21.6**
Total crude processed (Million Bbl/Day)		4.85	5.13	60.35	61.84	0.43	0.43
Percentage share of HS crude in total crude oil processing		**76.6%**	**77.5%**	**77.5%**	**78.5%**	**78.2%**	**80.2%**

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	$ Million	Rs. Crore
2021-22	212.4	1,20,675	9,01,262
2022-23	232.7	1,57,531	12,60,372
2023-24 (P)	233.1	1,32,838	11,00,589
April-2024(P)	21.4	13,010	1,08,580

7. Self-sufficiency in petroleum products (Million Metric Tonnes)

Particulars		2021-22	2022-23 (P)	April-March		April	
				2022-23 (P)	2023-24 (P)	2023-24 (P)	2024-25 (P)
1	Indigenous crude oil processing	27.0	26.5	26.5	26.9	2.0	2.2
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	24.7	25.1	1.8	2.0
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	3.5	3.5	0.3	0.3
4	Total production from indigenous crude & condensate **(2 + 3)**	29.3	28.2	28.2	28.5	2.1	2.3
5	Total domestic consumption	201.7	201.7	223.0	233.3	18.7	19.9
% Self-sufficiency (4 / 5)		**14.5%**	**14.0%**	**12.6%**	**12.2%**	**11.4%**	**11.6%**

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)										
Sl. no.	Refinery	Installed capacity (01.04.2024) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23 (P)	April-March			April		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2023-24 (P)	2024-25 (Target)	2024-25 (P)
1	Barauni (1964)	6.0	5.6	6.8	6.8	6.6	6.6	0.5	0.5	0.5
2	Koyali (1965)	13.7	13.5	15.6	15.6	14.4	15.2	1.1	1.1	1.3
3	Haldia (1975)	8.0	7.3	8.5	8.5	7.6	8.1	0.7	0.7	0.7
4	Mathura (1982)	8.0	9.1	9.6	9.6	9.2	9.2	0.8	0.8	0.9
5	Panipat (1998)	15.0	14.8	13.8	13.8	14.3	14.3	1.3	1.3	1.3
6	Guwahati (1962)	1.2	0.7	1.1	1.1	1.0	1.0	0.1	0.1	0.1
7	Digboi (1901)	0.65	0.7	0.7	0.7	0.7	0.7	0.0	0.1	0.1
8	Bongaigaon(1979)	2.70	2.6	2.8	2.8	2.8	3.0	0.2	0.2	0.2
9	Paradip (2016)	15.0	13.2	13.6	13.6	15.3	15.2	1.2	1.3	1.1
	IOCL-TOTAL	**70.3**	**67.7**	**72.4**	**72.4**	**72.0**	**73.3**	**6.0**	**6.1**	**6.1**
10	Manali (1969)	10.5	9.0	11.3	11.3	10.2	11.6	0.9	0.9	0.9
11	CBR (1993)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL-TOTAL	**10.5**	**9.0**	**11.3**	**11.3**	**10.2**	**11.6**	**0.9**	**0.9**	**0.9**
12	Mumbai (1955)	12.0	14.4	14.5	14.5	14.5	15.1	1.3	1.3	1.4
13	Kochi (1966)	15.5	15.4	16.0	16.0	15.8	17.3	1.4	1.4	1.4
14	Bina (2011)	7.8	7.4	7.8	7.8	7.0	7.1	0.6	0.6	0.7
	BPCL-TOTAL	**35.3**	**37.2**	**38.4**	**38.4**	**37.3**	**39.5**	**3.2**	**3.2**	**3.4**
15	Numaligarh (1999)	3.0	2.6	3.1	3.1	2.8	2.5	0.0	0.0	0.2

Sl. no.	Refinery	Installed capacity (01.04.2024) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23	April-March			April		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2023-24 (P)	2024-25 (Target)	2024-25 (P)
16	Tatipaka (2001)	0.07	0.08	0.07	0.073	0.063	0.065	0.01	0.01	0.01
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	17.1	15.9	16.5	1.5	1.3	1.3
	ONGC-TOTAL	**15.1**	**14.9**	**17.2**	**17.2**	**16.0**	**16.6**	**1.5**	**1.4**	**1.3**
18	Mumbai (1954)	9.5	5.6	9.8	9.8	9.0	9.6	0.8	0.8	0.5
19	Visakh (1957)	13.7	8.4	9.3	9.3	12.0	12.7	0.8	0.9	0.9
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	12.7	11.5	12.6	1.1	1.0	1.1
	HPCL- TOTAL	**34.5**	**27.0**	**31.8**	**31.8**	**32.5**	**35.0**	**2.8**	**2.7**	**2.5**
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	34.4	34.4	34.4	2.8	3.0	2.9
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	27.9	27.9	28.3	2.5	2.1	2.5
23	NEL-Vadinar (2006)	20.0	20.2	18.7	18.7	18.7	20.3	1.7	1.7	1.7
All India (MMT)		**256.8**	**241.7**	**255.2**	**255.2**	**251.7**	**261.5**	**21.5**	**21.1**	**21.6**
All India (Million Bbl/Day)		**5.02**	**4.85**	**5.13**	**5.13**	**5.04**	**5.24**	**0.43**	**0.42**	**0.43**

Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels. The Inputs to Refinery includes both Crude Oil and Other Inputs (OI), however Other Inputs (OI) do not form part of the above data. Targets are of FY 2023-24.

9. Major crude oil and product pipeline network (as on 01.05.2024)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,822	937			**10,941**
	Cap (MMTPA)	60.6	9.0	10.7	11.3	53.8	7.8			**153.1**
Products	Length (KM)		654			12,581	2,600	5,133	2,399	**23,367**
	Cap (MMTPA)		1.7			70.6	22.6	35.2	10.2	**140.3**

*Others include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

OIL & GAS MAP OF INDIA

LEGENDS

Refineries

Refineries (Capacity in MMTPA)

Producing Fields

Major Producing Fields

LNG Terminals

Dabhol, Dahej, Hazira, Kochi, Mundra, Ennore

(Upcoming Terminals) Dhamra, Jafrabad, Jaigarh, Chhara

LEGENDS

Pipelines Network

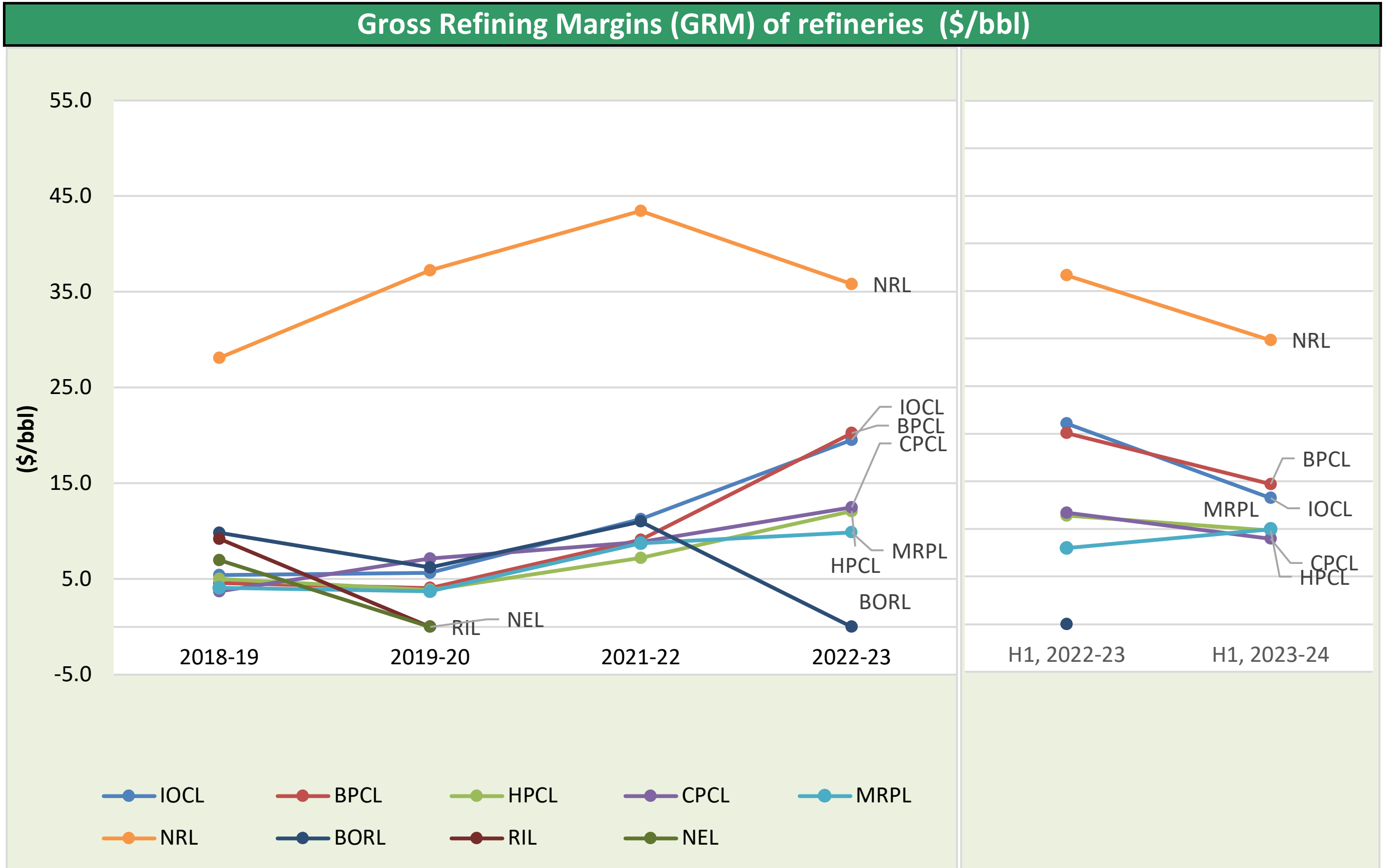
- Crude Oil Pipeline
- Ongoing Crude Oil Pipeline
- Product Pipeline
- Ongoing Product Pipeline
- LPG Pipeline
- Ongoing LPG Pipeline
- Gas Pipeline
- Ongoing Gas Pipeline

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	2020-21	2021-22	2022-23	Apr - Dec	
				2022-23	2023-24
IOCL	5.64	11.25	19.52	21.08	13.26
BPCL	4.06	9.09	20.24	20.08	14.72
HPCL	3.86	7.19	12.09	11.40	9.84
CPCL	7.14	8.85	12.48	11.70	8.98
MRPL	3.71	8.72	9.88	8.00	9.98
NRL	37.23	43.46	35.82	36.65	29.84
BORL	6.20	11.00	#	#	#
RIL	*	*	*	*	*
NEL	*	*	*	*	*

GRM of North Eastern refineries are including excise duty benefit

BPCL figures effective 2022-23 includes BORL also after its merger with BPCL

*Not available



GRM of North Eastern refineries are including excise duty benefit

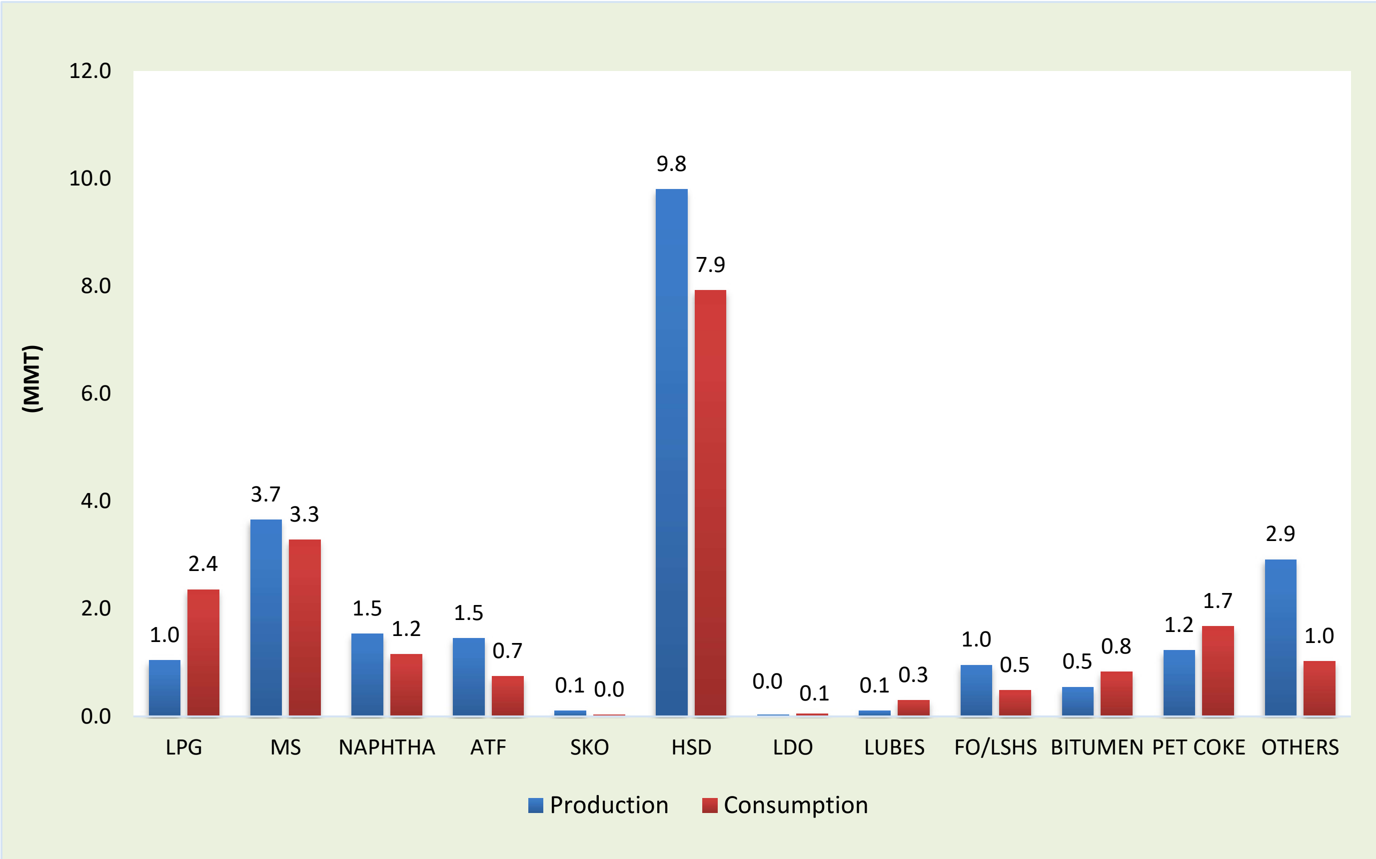
PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Products	**2020-21**		**2021-22**		**2022-23**		**2023-24 (P)**		**Apr 2023 (P)**		**Apr 2024 (P)**	
	Prod	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**
LPG	12.1	27.6	12.2	28.3	12.8	28.5	12.8	29.6	1.1	2.2	1.0	2.4
MS	35.8	28.0	40.2	30.8	42.8	35.0	45.1	37.2	3.6	2.9	3.7	3.3
NAPHTHA	19.4	14.1	20.0	13.2	17.0	12.2	18.3	13.9	1.4	1.1	1.5	1.2
ATF	7.1	3.7	10.3	5.0	15.0	7.4	17.1	8.2	1.3	0.7	1.5	0.7
SKO	2.4	1.8	1.9	1.5	0.9	0.5	1.0	0.5	0.03	0.03	0.1	0.03
HSD	100.4	72.7	107.2	76.7	113.8	85.9	115.9	89.7	9.5	7.8	9.8	7.9
LDO	0.7	0.9	0.8	1.0	0.6	0.7	0.7	0.8	0.04	0.1	0.0	0.1
LUBES	1.1	4.1	1.2	4.5	1.3	3.7	1.4	4.1	0.1	0.3	0.1	0.3
FO/LSHS	7.4	5.6	8.9	6.3	10.4	7.0	10.3	6.5	1.1	0.6	1.0	0.5
BITUMEN	4.9	7.5	5.1	7.8	4.9	8.0	5.2	8.8	0.5	0.9	0.5	0.8
PET COKE	12.0	15.6	15.5	14.3	15.4	18.3	15.1	19.1	1.2	1.4	1.2	1.7
OTHERS	30.2	12.8	30.9	12.3	31.5	15.8	33.3	14.8	2.6	0.9	2.9	1.0
ALL INDIA	**233.5**	**194.3**	**254.3**	**201.7**	**266.5**	**223.0**	**276.1**	**233.3**	**22.5**	**18.7**	**23.4**	**19.9**
Growth (%)	**-11.2%**	**-9.3%**	**8.9%**	**3.8%**	**4.8%**	**10.6%**	**3.6%**	**4.6%**	**-1.4%**	**1.4%**	**3.9%**	**6.1%**

Note: Prod - Production; Cons - Consumption

Petroleum Products: April 2024 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2021-22		2022-23		2023-24 (P)*		2024-25 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	17,83,344	16,59,906	12,43,644	3,96,115	9,71,796	3,83,479	97,195	20,553

* Allocation is for Apr-Jun 2024 and upliftment is for Apr 2024

13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2020-21	2021-22	2022-23 (Dec'22- Oct'23)	Apr'24	Nov'23-Apr'24
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	296.1	408.1	494.0	50.4	274.9
Ethanol blended under EBP Program (in Cr. Litrs)	302.3	433.6	508.8	51.5	284.0
Average Percentage of Blending Sales (EBP%)	8.1%	10.0%	12.1%	12.7%	12.1%

*Ethanol Supply Year : Ethanol supply year for 2022-23 taken for Dec'22-Oct'23 & thereafter changed to ethanol supplies between 1st November of current year to 31st October of the following year.

Note: With effect from 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman and Nicobar Islands and Lakshadweep.

14. Industry marketing infrastructure (as on 01.05.2024) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots **(Nos.)**$	126	80	78	17	3		6	**310**
Aviation Fuel Stations **(Nos.)**@	129	64	55	31			10	**289**
Retail Outlets (total) **(Nos.)**,^	37,511	21,865	22,050	1,709	6,587	340	103	**90,165**
out of which Rural ROs	12,216	5,539	5,464	130	2,102	85	36	**25,572**
SKO/LDO agencies **(Nos.)**	3,830	927	1,638					**6,395**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,881	6,255	6,353					**25,489**
LPG Bottling plants **(Nos.) (PSUs only)**#	98	53	56				3	**210**
LPG Bottling capacity **(TMTPA) (PSUs only)**&	10,950	5,100	6,590				203	**22,843**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	15.2	8.4	8.9					**32.6**

$(Others=4 MRPL & 2 NRL); @(Others=ShellMRPL); ^(Others=MRPL); #(Others=NRL-1, OIL-1, CPCL-1); &(Others=NRL-60, OIL-23, CPCL-120); RBML- Reliance BP Mobility Limited; RSIL- RBML Solutions India Ltd.

Industry Alternate fuel infrastructure at Retail outlets (Nos. of ROs as on 01.05.2024) (Provisional)

Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG_LNG	2114	2038	1705	30	37	0	2	**5926**
EV Charging	9847	3141	3603	81	518	255	21	**17466**
Auto LPG	319	44	105	53	51	0	0	**572**
Compressed Bio-Gas outlets	87	40	1	20	0	0	0	**148**
Total RO's with at least one Alternate fuel	11457	4661	4993	50	604	255	23	**22043**
Solarization at Retail outlets	32401	17262	17747	74	1001	0	0	**68485**

पहल
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प्रत्यक्ष हस्तांतरित लाभ

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प्रधानमंत्री उज्ज्वला योजना

PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)

LPG category	2021-22	2022-23	April-March 2022-23	April-March 2023-24 (P)	April-March Growth (%)	April 2023-24	April 2024-25 (P)	April Growth (%)
1. PSU Sales :								
LPG-Packed Domestic	25,501.6	25,381.5	25,381.5	26,207.5	3.3%	1,938.0	2,114.1	9.1%
LPG-Packed Non-Domestic	2,238.8	2,606.0	2,606.0	2,760.2	5.9%	191.4	195.1	1.9%
LPG-Bulk	390.9	408.9	408.9	593.8	45.2%	17.5	41.2	136.1%
Auto LPG	122.0	106.7	106.7	88.0	-17.6%	7.1	6.2	-12.6%
Sub-Total (PSU Sales)	28,253.3	28,503.1	**28,503.1**	**29,649.4**	**4.0%**	**2,154.0**	**2,356.7**	**9.4%**
2. Direct Private Imports*	0.1	0.1	0.00	0.01	-	0.03	1.17	3699.7%
Total (1+2)	28,253.4	28,503.2	**28,503.1**	**29,649.4**	**4.0%**	**2,154.0**	**2,357.9**	**9.5%**

*Mar'24-Apr'24 DGCIS data is prorated.

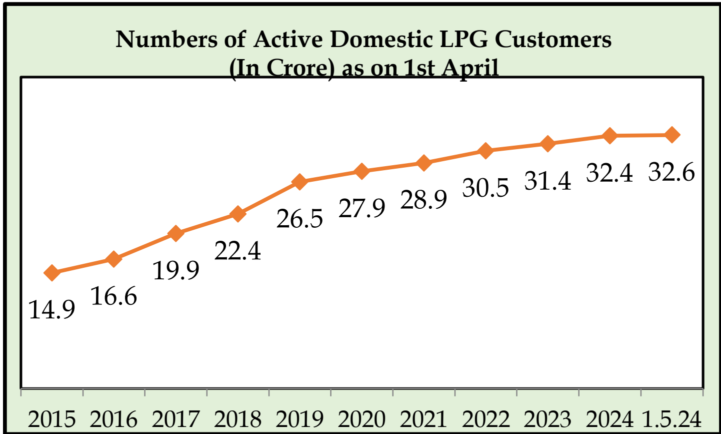
16. LPG marketing at a glance

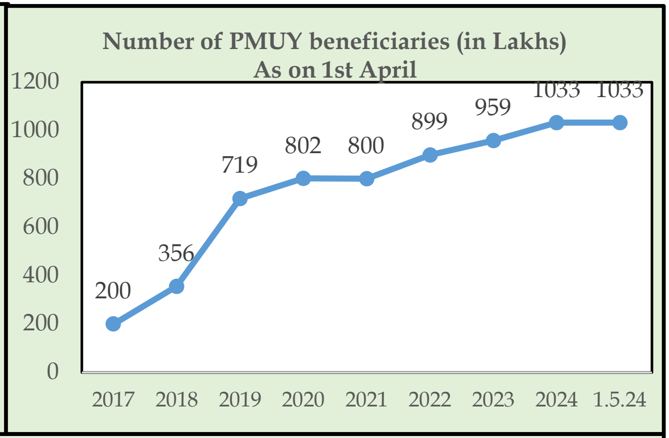
Particulars (As on 1st of April)	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	01.05.24 (P)
LPG Active Domestic Customers	(Lakh)			1486	1663	1988	2243	2654	2787	2895	3053	3140	3242	3255.7
	Growth				11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	3.2%	3.6%
LPG Coverage (Estimated)	(Percent)			56.2	61.9	72.8	80.9	94.3	97.5	99.8	-	-	-	-
	Growth				10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-	-	-	-
PMUY Beneficiaries	(Lakh)					200.3	356	719	802	800	899.0	958.6	1032.7	1033
	Growth						77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	7.7%	7.7%
LPG Distributors	(No.)	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25481	25487
	Growth	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.5%	0.4%	0.4%
Auto LPG Dispensing Stations	(No.)	667	678	681	676	675	672	661	657	651	601	526	468	468
	Growth	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-12.5%	-11.0%	-10.9%
Bottling Plants	(No.)	185	187	187	188	189	190	192	196	200	202	208	210	210
	Growth	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	4.5%	1.0%	1.0%

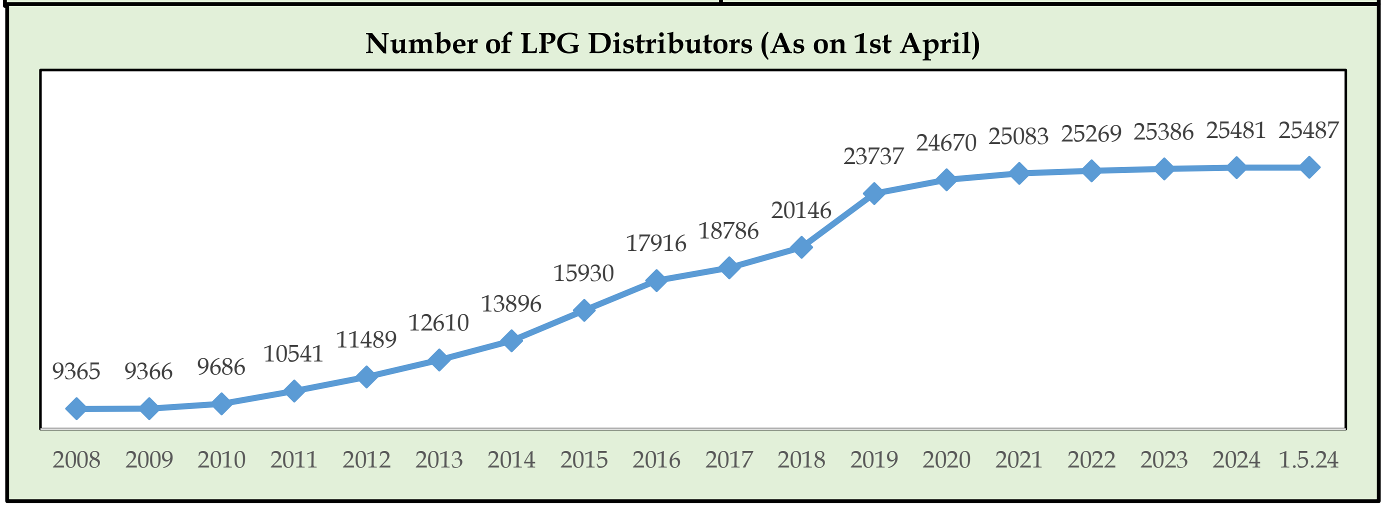
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.Growth rates as on 01.04.2024 are with respect to figs as on 01.04.2023. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

2. The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families due to urbanization and reduction in average size of households etc. impact the growth of number of households. Due to these factors, the estimated no. of households through projection of 2011 census data may slightly differ from the actual no. of households in a State/UT. Further, this methodology does not include PNG (domestic) connections.

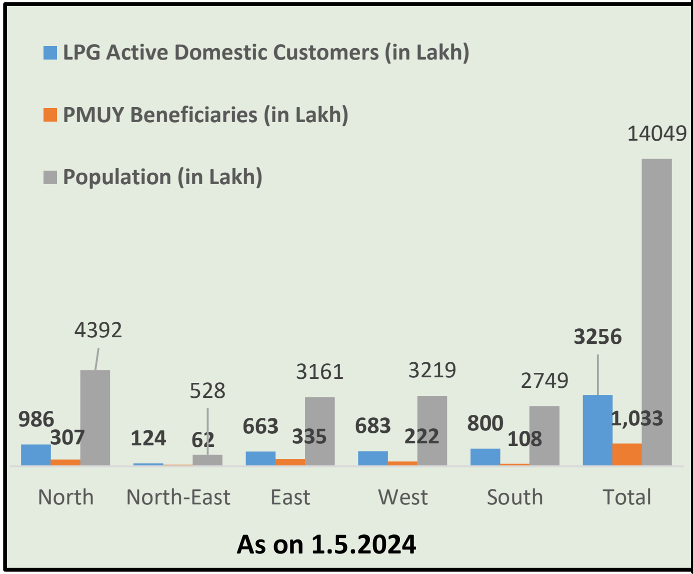

Numbers of Active Domestic LPG Customers
(In Crore) as on 1st April
14.9
16.6
19.9
22.4
26.5
27.9
28.9
30.5
31.4
32.4
32.6
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
1.5.24

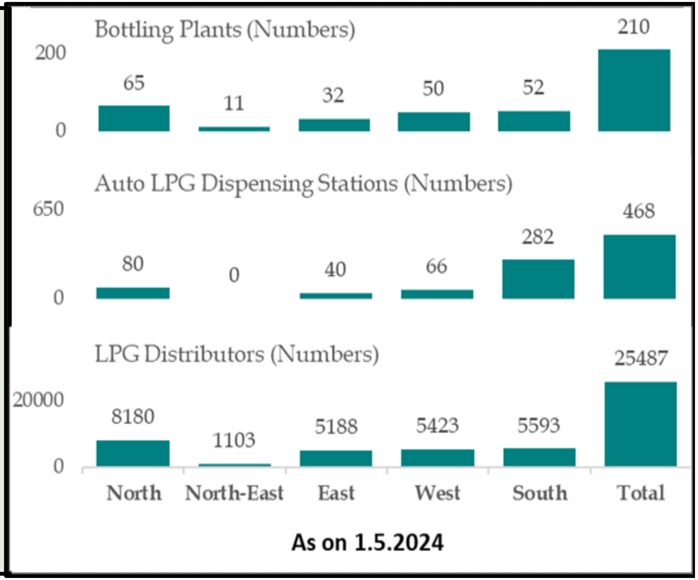

Number of PMUY beneficiaries (in Lakhs)
As on 1st April
1200
1000
800
600
400
200
0
200
356
719
802
800
899
959
1033
1033
2017
2018
2019
2020
2021
2022
2023
2024
1.5.24


Number of LPG Distributors (As on 1st April)
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24670
25083
25269
25386
25481
25487
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
1.5.24

17-Region-wise data on LPG marketing (As on 01.05.2024)						
Particulars	**North**	**North-East**	**East**	**West**	**South**	**Total**
LPG Active Domestic Customers (in Lakh)	985.9	123.9	662.7	683.0	800.1	3255.7
Population^ (in Lakh)	4392.3	527.9	3161.2	3219.0	2748.7	14049.1
PMUY Beneficiaries (in Lakh)	306.6	61.8	334.5	221.6	108.0	1032.6
LPG Distributors (Numbers)	8180	1103	5188	5423	5593	25487
Auto LPG Dispensing Stations (Numbers)	80	0	40	66	282	468
Bottling Plants* (Numbers)	65	11	32	50	52	210

*Includes Numaligarh BP, Duliajan BP and CPCL BP. ^Population as on 1st July 2023 taken from RGI POPULATION PROJECTIONS 2011 – 2036





PART-E

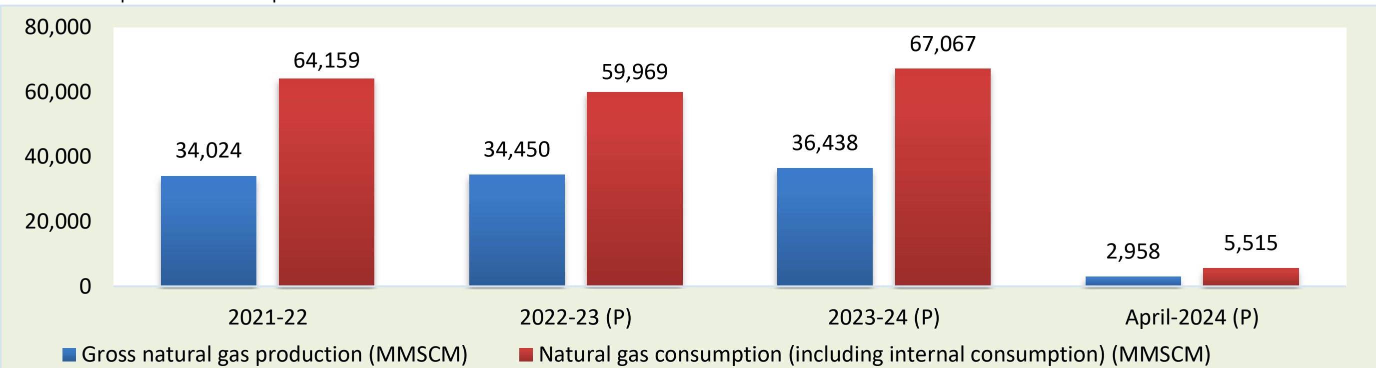
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2021-22 (P)	2022-23 (P)	April-March			April		
			2022-23 (P)	2023-24 (Target)	2023-24 (P)	2023-24 (P)	2023-24 (Target)	2024-25 (P)
(a) Gross production	34,024	34,450	34,450	38,181	36,438	2,745	2,852	2,958
- ONGC	20,629	19,969	19,969	20,559	19,316	1,607	1,721	1,524
- Oil India Limited (OIL)	2,893	3,041	3,041	3,155	3,090	237	228	261
- Private / Joint Ventures (JVs)	10,502	11,440	11,440	14,466	14,032	901	903	1,174
(b) Net production (excluding flare gas and loss)	33,131	33,664	33,664		35,717	2,671		2,907
(c) LNG import#	31,028	26,304	26,304		31,350	2,514		2,608
(d) Total consumption including internal consumption (b+c)	64,159	59,969	59,969		67,067	5,185		5,515
(e) Total consumption **(in BCM)**	64.2	60.0	60.0		67.1	5.2		5.5
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	43.9		46.7	48.5		47.282

Mar'24 to Apr'24 DGCIS data prorated.



19. Coal Bed Methane (CBM) gas development in India

Prognosticated CBM resources		91.8	TCF
Established CBM resources		10.4	TCF
CBM Resources (33 Blocks)		62.8	TCF
Total available coal bearing areas (India)		32760	Sq. KM
Total available coal bearing areas with MoPNG/DGH		12254*	Sq. KM
Area awarded		21,177**	Sq. KM
Blocks awarded*		39	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)		11008	Sq. KM
Production of CBM gas	April-Mar 2025 (P)	54.77	MMSCM
Production of CBM gas	Apr 2024 (P)	54.77	MMSCM

*ST CBM Block awarded & relinquished twice- in CBM Round II and Round IV -Area considered if any boreholes were drilled in the awarded block. **MoPNG awarded 04 new CBM Blocks (Area 3862 sq. km) under Special CBM Bid Round 2021 in September 2022. ***Area considered if any boreholes were drilled in the awarded block.

19a. Status of Compressed Bio Gas (CBG) projects under SATAT (as on 01.04.2024) (Provisional)

Particulars	Units	IOCL	HPCL	BPCL	GAIL#	IGL	Total
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	32*	9	8	15	6	**68***
Start of CBG sale from retail outlet(s)	Nos.	88	50	55	1	0	**194**
Sale of CBG in 2022-23	Tons	5,822	77	6	5322		**11,227**
Sale of CBG in 2023-24	Tons	6500	309	102	12813		**19724**
Sale of CBG in 2024-25 (up to April 2024)	Tons	604	22	163	2250		**3039**
Sale of CBG in CGD network	GA Nos.				26		**26**

Sale of CBG sourced under CBG-CGD synchronization scheme by GAIL through its own marketing channels as well as other CGDs/OMCs..*2 LOI holders of IndianOil are supplying CBG produced at their plants to two other OGMCs and hence they are counted only once in cumulative CBG plants commissioned on industry basis.

20. Common Carrier Natural Gas pipeline network as on 31.12.2023

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	11,009	2,716	1,483	143	107	304	73	42	24	0	0	0	**15,901**
	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				-
Partially commissioned[#]	Length	4,743	0	0	1,080	0	0	0	0	0	1,302	0	365	**7,490**
	Capacity	55.0	0.0	0.0	84.7	0.0	0.0	0.0	0.0	0.0	122.5	0.0	0.0	-
Total operational length		**15,752**	**2,716**	**1,483**	**1,223**	**107**	**304**	**73**	**42**	**24**	**1,302**	**0**	**365**	**23,391**
Under construction	Length	1,347	3	0	352	0	0	0	0	0	899	36	1,488	**4,125**
	Capacity	26.3	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0	-
Total length		**17,099**	**2,719**	**1,483**	**1,575**	**107**	**304**	**73**	**42**	**24**	**2,201**	**36**	**1,853**	**27,516**

Source: PNGRB; Length in KMs ; Authorized Capacity in MMSCMD (Arithmetic sum taken for each entity -capacity may vary from pipeline to pipeline); *Others-APGDC, , IGGL, IMC,GTIL,HPPL Consortium of H-Energy. Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 33,347 Kms (P),however total operational and Under Construction Pipeline length is 35,217 Kms (P)

21. Existing LNG terminals

Location	Promoters	Capacity as on 01.05.2024	% Capacity utilisation (April-Mar 2024)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	95.1
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	30.3
Dabhol	Konkan LNG Limited	*5 MMTPA	42.7
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.6
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	18.3
Mundra	GSPC LNG Limited	5 MMTPA	14.6
Dhamra	Adani Total Private Limited	5 MMTPA	27.4

22. Status of PNG connections and CNG stations across India (Nos.), as on 31.03.2024(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	189	2,71,585	470	39
Andhra Pradesh, Karnataka & Tamil Nadu	43	9,648	6	6
Assam	22	58,474	1,393	456
Bihar	129	1,55,826	127	10
Bihar & Jharkhand	15	8,527	4	0
Bihar & Uttar Pradesh	27	4,400	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	27	26,845	165	46
Chhattisgarh	18	3,499	0	0
Dadra & Nagar Haveli (UT)	6	12,154	57	62
Daman & Diu (UT)	5	5,240	73	51
Daman and Diu & Gujarat	15	6,407	23	0
Goa	12	13,598	30	43
Gujarat	1,002	32,82,257	23,534	5,812
Haryana	409	3,68,917	955	2,331
Haryana	25	26,706	137	62
Haryana & Himachal Pradesh	10	48	0	0
Haryana & Punjab	27	1,181	0	0
Himachal Pradesh	13	7,715	22	0
Jharkhand	100	1,37,832	28	4
Karnataka	370	4,40,737	581	362
Kerala	133	73,961	57	22
Kerala & Puducherry	13	2,933	0	0
Madhya Pradesh	296	2,38,605	472	519
Madhya Pradesh and Chhattisgrah	9	0	0	0
Madhya Pradesh and Rajasthan	35	863	0	0
Madhya Pradesh and Uttar Pradesh	20	0	0	3
Maharashtra	890	34,29,926	4,864	999
Maharashtra & Gujarat	71	1,87,645	10	33
Maharashtra and Madhya Pradesh	16	0	0	0

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
National Capital Territory of Delhi (UT)	491	15,64,294	4,046	1,916
Odisha	105	1,21,446	10	0
Puducherry	2	0	0	0
Puducherry & Tamil Nadu	8	329	0	0
Punjab	216	85,572	622	293
Punjab & Rajasthan	20	4,842	0	0
Rajasthan	317	3,08,973	207	1,702
Tamil Nadu	313	25,175	9	15
Telangana	181	2,11,820	111	117
Telangana and Karnataka	5	120	0	1
Tripura	18	62,136	508	62
UT of Jammu and Kashmir	1	0	0	0
Uttar Pradesh	973	16,19,858	2,675	3,325
Uttar Pradesh	28	6,640	13	7
Uttar Pradesh & Rajasthan	45	22,700	51	348
Uttar Pradesh and Uttrakhand	29	15,141	0	0
Uttarakhand	35	73,297	97	109
West Bengal	127	24,644	3	1
Grand Total	**6,861**	**1,29,22,516**	**41,360**	**18,756**

Source: PNGRB

Note: 1. All the GAs where PNG connections/CNG Stations have been established are considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

23. Domestic natural gas price and gas price ceiling (GCV basis)

Period	Domestic Natural Gas price in	Gas price ceiling in US$/MMBTU
April 2015 - September 2015	4.66	-
October 2015 - March 2016	3.82	-
April 2016 - September 2016	3.06	6.61
October 2016 - March 2017	2.5	5.3
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.3
April 2018 - September 2018	3.06	6.78
October 2018 - March 2019	3.36	7.67
April 2019 - September 2019	3.69	9.32
October 2019 - March 2020	3.23	8.43
April 2020 - September 2020	2.39	5.61
October 2020 - March 2021	1.79	4.06
April 2021 - September 2021	1.79	3.62
October 2021 - March 2022	2.9	6.13
April 2022 - September 2022	6.1	9.92
October 2022 - March 2023	8.57	12.46
1 April 2023 - 7 April 2023	9.16	12.12

Period	Domestic Gas calculated	Domestic Gas ceiling price for	Period	HP-HT Gas price ceiling in
8 April 2023- 30 April 2023	7.92	6.50	April 2023-September 2023	12.12
1 May 2023 - 31May 2023	8.27	6.50		
1 June 2023 - 30 June 2023	7.58	6.50		
1 July 2023 - 31 July 2023	7.48	6.50		
1 Aug 2023 - 31 Aug 2023	7.85	6.50		
1 Sept 2023 - 30 Sept 2023	8.60	6.50		
1 Oct 2023 - 31 Oct 2023	9.20	6.50	October'2023 - March 2024	9.96
1 Nov 2023 - 30 Nov2023	9.12	6.50		
1 Dec 2023 - 31 Dec 2023	8.47	6.50		
1 Jan 2024 - 31 Jan 2024	7.82	6.50		
1 Feb 2024- 29 Feb 2024	7.85	6.50		
1 Mar 2024- 31 Mar 2024	8.17	6.50		
1 April 2024 - 30 April 2024	8.38	6.50	April 2024-September 2024	9.96
1 May 2024 - 31 May 2024	8.90	6.50		

Natural Gas prices are on GCV basis

24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	74.09	48.59	IGL website (13.05.2024)
Mumbai	73.50	47.00	MGL website (13.05.2024)

Indian Natural Gas Spot Price for Physical Delivery

IGX Price Index Month	Avg. Price		Volume (MMSCM)	Source
	INR/MMBtu	$/MMBtu		
`Mar 2024	754	9.00	73.50	As per IGX website:

*Prices are weighted average prices|$1=INR 83.40| 1 MMBtu=25.2 SCM (Data Excluding Ceiling Price Gas)

PART-F

Taxes & Duties on Petroleum Products

25. Information on Prices, Taxes and Under-recoveries/Subsidies

International FOB prices/ Exchange rates ($/bbl)

Particulars	2021-22	2022-23	Apr 2024
Crude oil (Indian Basket)	79.18	93.15	89.46
Petrol	89.66	107.00	102.13
Diesel	88.45	128.08	99.94
Kerosene	85.31	120.55	98.22
LPG ($/MT)	692.67	711.50	618.00
FO ($/MT)	445.25	452.66	482.42
Naphtha ($/MT)	698.25	666.53	641.70
Exchange (Rs./$)	74.51	80.39	83.41

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.90/Ltr	**
Diesel	2.50%	Rs 15.80/Ltr	**
PDS SKO	5.00%	Not Applicable	5.00%
Non-PDS SKO	5.00%		18.00%
Domestic LPG	Nil***		5.00%
Non Domestic LPG	5.00%		18.00%
Furnace Oil (Non-Fert)	2.50%		18.00%
Naphtha (Non-Fert)	2.50%		18.00%
ATF	5.00%	11% *	**
Crude Oil	Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD + Rs.8400/ MT SAED ^^^	**

Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST;
*2% for scheduled commuter airlines from regional connectivity scheme airports;
** GST Council shall recommend the date on which GST shall be levied on petroleum crude , HSD, MS, natural gas and ATF;
*** Basic Customs duty is Nil for import of domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Basic Customs duty rate is 5% for other importers of domestic LPG;
^^^ Effective 01.05.2024 SAED on crude oil.

Price buildup of petroleum products (Rs./litre/Cylinder) *

Particulars	Petrol	Diesel
Price charged to dealers (excluding Excise Duty and VAT)	55.66	56.42
Excise Duty	19.90	15.80
Dealers' Commission (Average)	3.77	2.58
VAT (incl VAT on dealers' commission)	15.39	12.82
Retail Selling Price	**94.72**	**87.62**

Particulars	PDS SKO	Subsidised Domestic LPG
Price before taxes and dealers'/distributors' commission	60.11	691.68
Dealers'/distributors' commission	2.66	73.08
GST (incl GST on dealers'/distributors' commission)	3.14	38.24
Retail Selling Price	**65.91**	**803.00**

*Petrol and Diesel at Delhi as per IOCL are as on 01st May 2024. PDS SKO at Mumbai as on 1st May 2024 and Subsidised Domestic LPG at Delhi as on 1st May 2024.

25. Information on Prices, Taxes and Under-recoveries/Subsidies

DBTL/ PMUY Subsidy

Domestic LPG under DBTL (Direct benefit transfer for LPG)

Product	2020-21	2021-22	2022-23 (P)
	Rs./Crore		
DBTL subsidy	3,559	0	823
PME &IEC^	99	242	32
Total	**3,658**	**242**	**855**

^ On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

Note: During FY 2022-23 Government of India has approved a one-time grant of Rs. 22,000 crores to PSU OMCs towards under-recoveries in Domestic LPG.

PMUY

Particulars	2020-21	2021-22	2022-23 (P)
	Rs./Crore		
PMUY	(34)	1,569	6,110
PME &IEC^	110	-	
Pradhan Mantri Gareeb Kalyan Yojana	8,162	-	
Total	**8,238**	**1,569**	**6,110**

^ On payment basis (PME & IEC - Project Management Expenditure & Information , Education and Communication)

Sales & profit of petroleum sector (Rs. Crores)

Particulars	2022-23		2023-24 (P) (Upto Q4)	
	TurDecer	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	3,21,099	50,941	2,17,314	39,950
Downstream Companies (PSU)	19,16,438	1,138	13,55,925	69,082
Standalone Refineries (PSU)	2,45,272	9,875	1,50,664	6,075
Private-RIL	5,78,088	44,190	4,15,650	30,759

Borrowings of OMCs (Rs. Crores), As on

Company	Mar'22	Mar'23	Dec'23
IOCL	1,10,799	1,32,495	1,06,190
BPCL	24,123	35,855	16,017
HPCL	43,193	64,517	49,999

Petroleum sector contribution to Central/State Govt.

Particulars	2020-21	2021-22	2022-23
Central Government	4,55,069	4,92,303	4,28,067
% of total revenue receipts	28%	23%	18%
State Governments	2,17,650	2,82,122	3,20,651
% of total revenue receipts	8%	8%	8%
Total (Rs. Crores)	**6,72,719**	**7,74,425**	**7,48,718**

Total Subsidy as a percentage of GDP (at current prices)

Particulars	2020-21	2021-22	2022-23 (P)
Petroleum subsidy	0.06	0.01	0.03

Note: GDP figure for 2020-21 & 2021-22 are Revised Estimates (RE) and 2022-23 are Second Advance Estimates (SAE).
**Totals may not tally due to roundoff.

PART-G

Miscellaneous

26. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2021-22	2022-23 (P)	2023-24 (P)	2024-25 (P)	
				Target (Annual)	Apr'24 (P)
ONGC Ltd	26,621	29,209	34,551	30,800	2,283
ONGC Videsh Ltd (OVL)	4,836	2,723	3,262	5,580	241
Oil India Ltd (OIL)	4,239	5,057	5,390	6,880	259
GAIL (India) Ltd	6,970	8,313	10,388	8,044	262
Indian Oil Corp. Ltd. (IOCL)	29,604	35,205	38,660	30,909	2,174
Bharat Petroleum Corp. Ltd (BPCL)	11,449	11,527	11,002	13,000	243
Hindustan Petroleum Corp. Ltd (HPCL)	16,205	13,847	13,842	12,500	800
Mangalore Refinery & Petrochem Ltd (MRPL)	604	641	1,513	820	9
Chennai Petroleum Corp. Ltd (CPCL)	575	609	561	501	30
Numaligarh Refinery Ltd (NRL)	3,403	6,615	8,585	9,375	367
Balmer Lawrie Co. Ltd (BL)	23	46	47	40	1
Engineers India Ltd (EIL)	67	60	108	50	1
Total	**1,04,596**	**1,13,853**	**1,27,908**	**1,18,499**	**6,669**

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

27. Conversion factors and volume conversion

Weight to volume conversion

Product	Weight (MT)	Volume (KL)	Barrel (bbl)
LPG	1	1.844	11.60
Petrol (MS)	1	1.411	8.88
Diesel (HSD)	1	1.210	7.61
Kerosene (SKO)	1	1.285	8.08
Aviation Turbine Fuel (ATF)	1	1.288	8.10
Light Diesel Oil (LDO)	1	1.172	7.37
Furnace Oil (FO)	1	1.0424	6.74
Crude Oil	1	1.170	7.33

Exclusive Economic Zone

200 Nautical Miles	370.4 Kilometers

Volume conversion

From	To
1 US Barrel (bbl)	159 litres
1 US Barrel (bbl)	20130.81
1 US Gallon	3.78 litres
1 Kilo litre (KL)	6.29 bbl
1 Million barrels per day	49.8 MMTPA

Energy conversion

1 Kilocalorie (kcal)	4.187 kJ
1 Kilocalorie (kcal)	3.968 Btu
1 Kilowatt-hour (kWh)	860 kcal
1 Kilowatt-hour (kWh)	3,412 Btu

Natural gas conversions

1 Standard Cubic Metre (SCM)	35.31 Cubic Feet	1 MMBTU	25.2 SCM @10000 kcal/SCM
1 Billion Cubic Metres (BCM)/year of Gas	2.74 MMSCMD	GCV (Gross Calorific Value)	10,000 kcal/SCM
1 Trillion Cubic Feet (TCF) of Gas Reserve	3.88 MMSCMD	NCV (Net Calorific Value)	90% of GCV
1 Million Metric Tonne Per Annum (MMTPA) of LNG	3.60 MMSCMD	Gas required for 1 MW power generation	4,541 SCM/day
1 MT of LNG	1,325 SCM	Power generation from 1 MMSCMD of gas	220 MW

PPAC

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