



भारत 2023 INDIA

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Snapshot of India's Oil & Gas data

Monthly Ready Reckoner

July 2023



Analysis • Knowledge • Information

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.

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Highlights for the month

- Indigenous crude oil and condensate production during July 2023 was 2.50 MMT. OIL registered a production of 0.28 MMT, ONGC registered a production of 1.62 MMT whereas PSC registered production of 0.60 MMT during July 2023. A growth of 2.1% in total Crude Oil & Condensate Production has been achieved in July 2023 as compared to July 2022.
- Total Crude oil processed during July 2023 was 21.9 MMT which is 2.2% higher than July 2022. Where PSU/JV Refiners processed 14.7 MMT and PVT Refiners Processed 7.2 MMT of Crude Oil. Total Indigenous Crude Oil processed was 2.4 MMT and total Imported Crude oil processed was 19.5 by all Indian Refineries (PSU+JV+PVT).
- Crude oil imports decreased by 6.3% and 2.4% during July 2023 and April-July 2023 respectively as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for July 2022 of \$15.8 billion, the net import bill for Oil & Gas for July 2023 was \$9.8 billion. Out of which, crude oil imports constitutes \$10.2 billion, LNG imports \$2.1 billion and the exports were \$4.1 billion during June 2023.
- The price of Brent Crude averaged \$80.05/bbl during July 2023 as against \$74.70/bbl during June 2023 and \$112.70/bbl during July 2022. The Indian basket crude price averaged \$80.37/bbl during July 2023 as against \$74.93/bbl during June 2023 and \$105.49 /bbl during July 2022.
- Production of petroleum products was 22.8 MMT during July 2023 which is 3.6% higher than July 2022. Out of above 22.5 MMT, was from Refinery production & 0.3 MMT was from Fractionator. There was 2.4 % growth in Production of petroleum products in Apr July, 2023 – 24 as compared to same period of 2022 – 23. Out of total POL production, in July 2023, HSD has 41.8 % share, MS has 16.7 %, Naphtha has 6.5 %, ATF has 6.3 %, Pet Coke has 5.8, % LPG has 4.8 % which are the major products and rest is shared by Bitumen, FO/LSHS, LDO, Lubes & others.
- POL products imports decreased by 4.8% and increased by 2.0% during July 2023 and April-July 2023 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-July 2023 were mainly due to increase in imports of vacuum gas oil (VGO), bitumen and naphtha.

•	Exports of POL products increased by 14.3% and decreased by 6.0% during July 2023 and April-July 2023 respectively as compared to the corresponding period of the previous year. Decrease in POL products exports during April-July 2023 were mainly due to decrease in exports of high-speed diesel (HSD) and naphtha.
•	The consumption of petroleum products during April-July 2023 with a volume of 76.8 MMT reported a growth of 5.1% compared to the volume of 73.1 MMT during the same period of the previous year. This growth was led by 6.7% growth in MS, 7.1% in HSD & 13.7% in ATF & 10.5% in Naptha consumption besides LPG, FO/LSHS, Lubes, Bitumen and LDO during the period. The consumption of petroleum products during July 2023 recorded a growth of 1.9% with a volume of 18.1 MMT compared to the same period of the previous year.
•	Ethanol blending with Petrol was 11.9% during July 2023 and cumulative ethanol blending during December 2022- July 2023 was 11.8%.
•	Total Natural Gas Consumption (including internal consumption) for the month of July 2023 was 5297 MMSCM which was 4.5% higher than the corresponding month of the previous year. The cumulative consumption of 21398 MMSCM for the current financial year till July 2023 was higher by 3.9% compared with the corresponding period of the previous year.
•	Gross production of natural gas for the month of July 2023 (P) was 3123 MMSCM which was higher by 8.3% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 11687 MMSCM for the current financial year till July 2023 was higher by 2.2% compared with the corresponding period of the previous year.
•	LNG import for the month of July 2023 (P) was 2234 MMSCM which was 1.1% lower than the corresponding month of the previous year. The cumulative import of 9982 (P) MMSCM for the current financial year till July 2023 was higher by 4.7% compared with the corresponding period 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	1.323	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	6.5 BE
3	Agricultural Production (Food grains)	MMT	285.2	297.5	310.7	315.7 4th AE	323.6 2nd AE	-
		Growth %	0.1	4.3	4.5	1.6	2.5	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.4	4.6	9.5 RE	6.7 RE	6.4 RE	5.9 E

Economic indicators		Unit/ Base	2021-22	2022-23	July		April-July	
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	12.6*	3.7* QE	12.9#	4.5#
6	Imports^	\$ Billion	611.9	714.2	67.8	77.8	306.4	272.4
7	Exports^	\$ Billion	422.0	451.0	59.4	62.6	259.7	244.2
8	Trade Balance	\$ Billion	-189.9	-263.2	-8.4	-15.2	-46.7	-28.3
9	Foreign Exchange Reserves @	\$ Billion	617.6	578.4	573.9	603.9	-	-

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

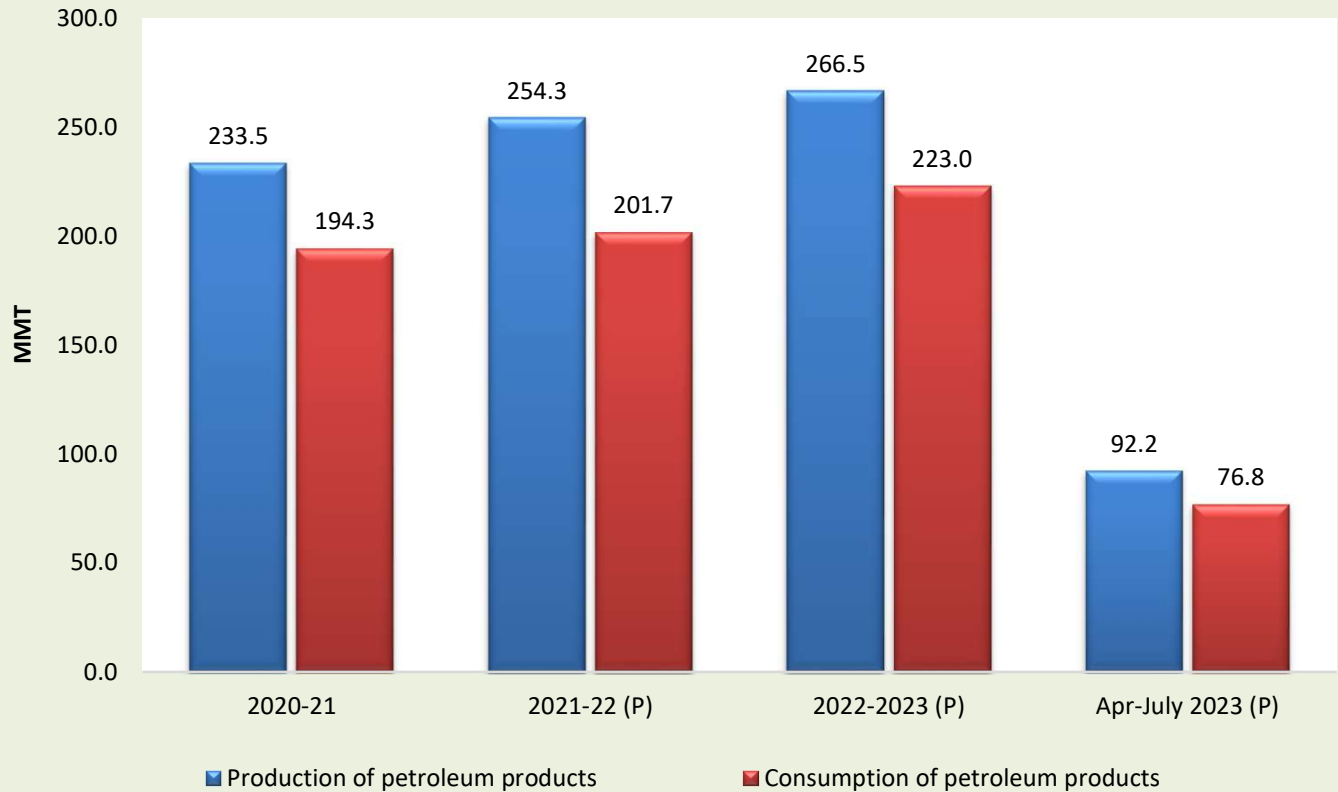
Source: Registrar General India, Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

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

Details		Unit/ Base	2021-22 (P)	2022-23 (P)	July		April-July	
					2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	Crude oil production in India [#]	MMT	29.7	29.2	2.5	2.5	9.9	9.8
2	Consumption of petroleum products*	MMT	201.7	223.0	17.7	18.1	73.1	76.8
3	Production of petroleum products	MMT	254.3	266.5	22.0	22.8	90.1	92.2
4	Gross natural gas production	MMSCM	34,024	34,450	2,883	3,123	11,436	11,687
5	Natural gas consumption	MMSCM	64,159	59,969	5,311	5,297	20,925	21,398
6	Imports & exports:							
Crude oil imports		MMT	212.4	232.7	20.6	19.3	81.3	79.4
		\$ Billion	120.7	157.6	16.3	10.2	64.3	41.6
Petroleum products (POL) imports*		MMT	39.0	44.5	3.7	3.6	14.3	14.6
		\$ Billion	23.7	26.8	2.5	1.5	10.1	6.7
Gross petroleum imports (Crude + POL)		MMT	251.4	277.3	24.4	22.9	95.7	94.0
		\$ Billion	144.3	184.4	18.8	11.8	74.4	48.3
Petroleum products (POL) export		MMT	62.8	61.0	4.7	5.4	21.3	20.0
		\$ Billion	44.4	57.3	4.9	4.1	23.7	14.4
LNG imports*		MMSCM	31,028	26,304	2,500	2,234	9,773	9,982
		\$ Billion	13.5	17.1	1.9	2.1	6.6	6.7
Net oil & gas imports		\$ Billion	113.4	144.2	15.8	9.8	57.3	40.6
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	27.7	15.1	24.3	17.7
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	8.2	6.5	9.1	5.9
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	86.3	86.1	86.4	87.8

[#]Includes condensate; *Private direct imports are prorated for the period June'23 to July'23 for POL. LNG Imports figure from DGCIS are prorated for July 2023. Total may not tally due to rounding off.

Production & Consumption of Petroleum Products (MMT)





PART-B

Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2021-22	2022-23 (P)	July			April-July		
			2022-23 (P)	2023-24 Target*	2023-24 (P)	2022-23 (P)	2023-24 Target*	2023-24 (P)
ONGC	18.5	18.4	1.6	1.6	1.53	6.3	6.5	6.1
Oil India Limited (OIL)	3.0	3.2	0.3	0.3	0.28	1.0	1.1	1.1
Private / Joint Ventures (JVs)	7.0	6.2	0.5	0.6	0.50	2.2	2.3	2.0
Total Crude Oil	28.4	27.8	2.3	2.5	2.3	9.5	9.9	9.2
ONGC condensate	0.9	1.0	0.08	0.0	0.09	0.3	0.0	0.4
PSC condensate	0.3	0.31	0.03	0.0	0.10	0.09	0.0	0.28
Total condensate	1.2	1.4	0.11	0.0	0.2	0.4	0.0	0.6
Total (Crude + Condensate) (MMT)	29.7	29.2	2.5	2.5	2.5	9.9	9.9	9.8
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.58	0.60	0.59	0.60	0.60	0.59

*Provisional targets inclusive of condensate.

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

Details	2021-22	2022-23 (P)	July		April-July	
			2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
Total domestic production (MMTOE)	63.7	63.6	5.3	5.6	21.3	21.5
Overseas production (MMTOE)	21.8	19.5	1.6	1.6	6.5	6.6

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)	July		April-July	
				2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	High Sulphur crude	185.0	197.9	17.1	16.9	68.2	68.4
2	Low Sulphur crude	56.7	57.4	4.3	5.0	19.0	19.2
Total crude processed (MMT)		241.7	255.2	21.4	21.9	87.2	87.6
Total crude processed (Million Bbl/Day)		4.85	5.13	5.07	5.17	5.24	5.26
Percentage share of HS crude in total crude oil processing		76.6%	77.5%	79.8%	77.3%	78.2%	78.0%

6. Quantity and value of crude oil imports			
Year	Quantity (MMT)	\$ Million	Rs. Crore
2021-22 (P)	212.4	120,675	9,01,262
2022-23 (P)	232.7	157,597	12,60,910
April-July 2023-24(P)	79.4	41,637	3,42,180

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		2021-22	2022-23 (P)	July		April-July	
				2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	Indigenous crude oil processing	27.0	26.4	2.2	2.4	9.3	8.8
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	2.1	2.2	8.7	8.2
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.3	0.3	1.2	1.2
4	Total production from indigenous crude & condensate (2 + 3)	29.3	28.2	2.4	2.5	9.9	9.4
5	Total domestic consumption	201.7	223.0	17.7	18.1	73.1	76.8
% Self-sufficiency (4 / 5)		14.5%	12.6%	13.7%	13.9%	13.6%	12.2%

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)										
Sl. no.	Refinery	Installed capacity (01.04.2023) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23 (P)	July			April-July		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
1	Barauni (1964)	6.0	5.6	6.8	0.6	0.6	0.6	2.3	2.2	2.2
2	Koyali (1965)	13.7	13.5	15.6	1.3	1.2	1.3	5.3	4.3	5.1
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.6	0.7	2.8	2.7	2.8
4	Mathura (1982)	8.0	9.1	9.6	0.7	0.3	0.4	3.2	2.8	2.9
5	Panipat (1998)	15.0	14.8	13.8	1.2	1.2	1.2	4.8	4.9	5.0
6	Guwahati (1962)	1.0	0.7	1.1	0.09	0.1	0.1	0.37	0.4	0.4
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.03	0.06	0.2	0.2	0.2
8	Bongaigaon(1979)	2.70	2.6	2.8	0.2	0.3	0.2	0.8	1.0	1.0
9	Paradip (2016)	15.0	13.2	13.6	1.3	1.3	1.4	5.3	5.0	5.2
	IOCL-TOTAL	70.1	67.7	72.4	6.2	5.6	6.0	25.1	23.5	24.8
10	Manali (1969)	10.5	9.0	11.3	1.0	0.9	1.0	3.9	3.7	3.7
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	1.0	0.9	1.0	3.9	3.7	3.7
12	Mumbai (1955)	12.0	14.4	14.5	0.7	1.3	1.4	4.1	5.0	5.3
13	Kochi (1966)	15.5	15.4	16.0	1.4	1.3	1.4	5.5	5.4	5.7
14	Bina (2011)	7.8	7.4	7.8	0.6	0.5	0.0	2.6	1.8	1.9
	BPCL-TOTAL	35.3	37.2	38.4	2.7	3.0	2.8	12.3	12.1	12.9
15	Numaligarh (1999)	3.0	2.6	3.1	0.3	0.3	0.2	1.0	0.6	0.3

Sl. no.	Refinery	Installed capacity (01.04.2023) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23	July			April-July		
					2022-23	2023-24 (Target)	2023-24 (P)	2022-23	2023-24 (Target)	2023-24 (P)
16	Tatipaka (2001)	0.066	0.075	0.073	0.005	0.006	0.005	0.025	0.019	0.024
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.4	1.5	1.4	5.8	5.7	5.9
	ONGC-TOTAL	15.1	14.9	17.2	1.4	1.5	1.4	5.8	5.7	5.9
18	Mumbai (1954)	9.5	5.6	9.8	0.9	0.8	0.9	3.3	3.1	3.3
19	Visakh (1957)	11.0	8.4	9.3	0.7	0.9	1.1	3.1	3.6	4.1
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.1	1.0	1.1	4.3	3.9	4.3
	HPCL- TOTAL	31.8	27.0	31.8	2.7	2.7	3.1	10.7	10.7	11.7
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.9	2.9	3.0	12.0	12.0	11.5
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	2.5	2.5	2.6	9.6	9.6	10.1
23	NEL-Vadinar (2006)	20.0	20.2	18.7	1.7	1.7	1.7	6.8	6.8	6.7
All India (MMT)		253.9	241.7	255.2	21.4	21.2	21.9	87.2	84.8	87.6
All India (Million Bbl/Day)		5.02	4.85	5.13	5.07	5.00	5.17	5.24	5.10	5.26

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.

9. Major crude oil and product pipeline network (as on 01.08.2023)										
Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,819	937			10,938
	Cap (MMTPA)	60.6	9.0	10.7	11.3	53.8	7.8			153.1
Products	Length (KM)		654			11,861	2,599	5,121	2,399	22,634
	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

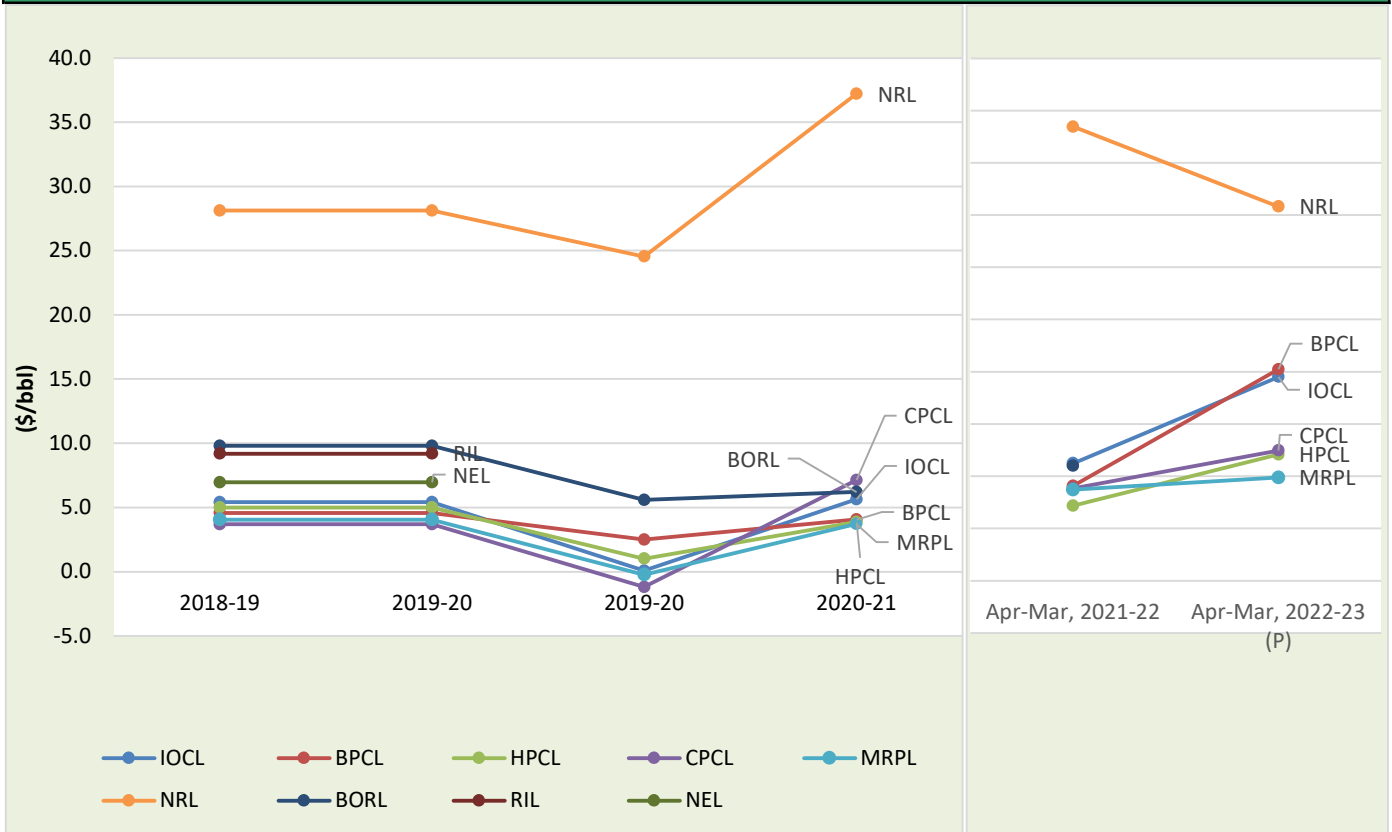
10. Gross Refining Margins (GRM) of refineries (\$/bbl)					
Company	2018-19	2019-20	2020-21	Apr - Mar	
				2021-22	2022-23
IOCL	5.41	0.08	5.64	11.25	19.52
BPCL	4.58	2.50	4.06	9.09	20.24
HPCL	5.01	1.02	3.86	7.19	12.09
CPCL	3.70	-1.18	7.14	8.85	12.48
MRPL	4.06	-0.23	3.71	8.72	9.88
NRL	28.11	24.55	37.23	43.46	35.82
BORL	9.80	5.60	6.20	11.00	#
RIL	9.20	8.90	*	*	*
NEL	6.97	5.88	*	*	*

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

Gross Refining Margins (GRM) of refineries (\$/bbl)



GRM of North Eastern refineries are including excise duty benefit



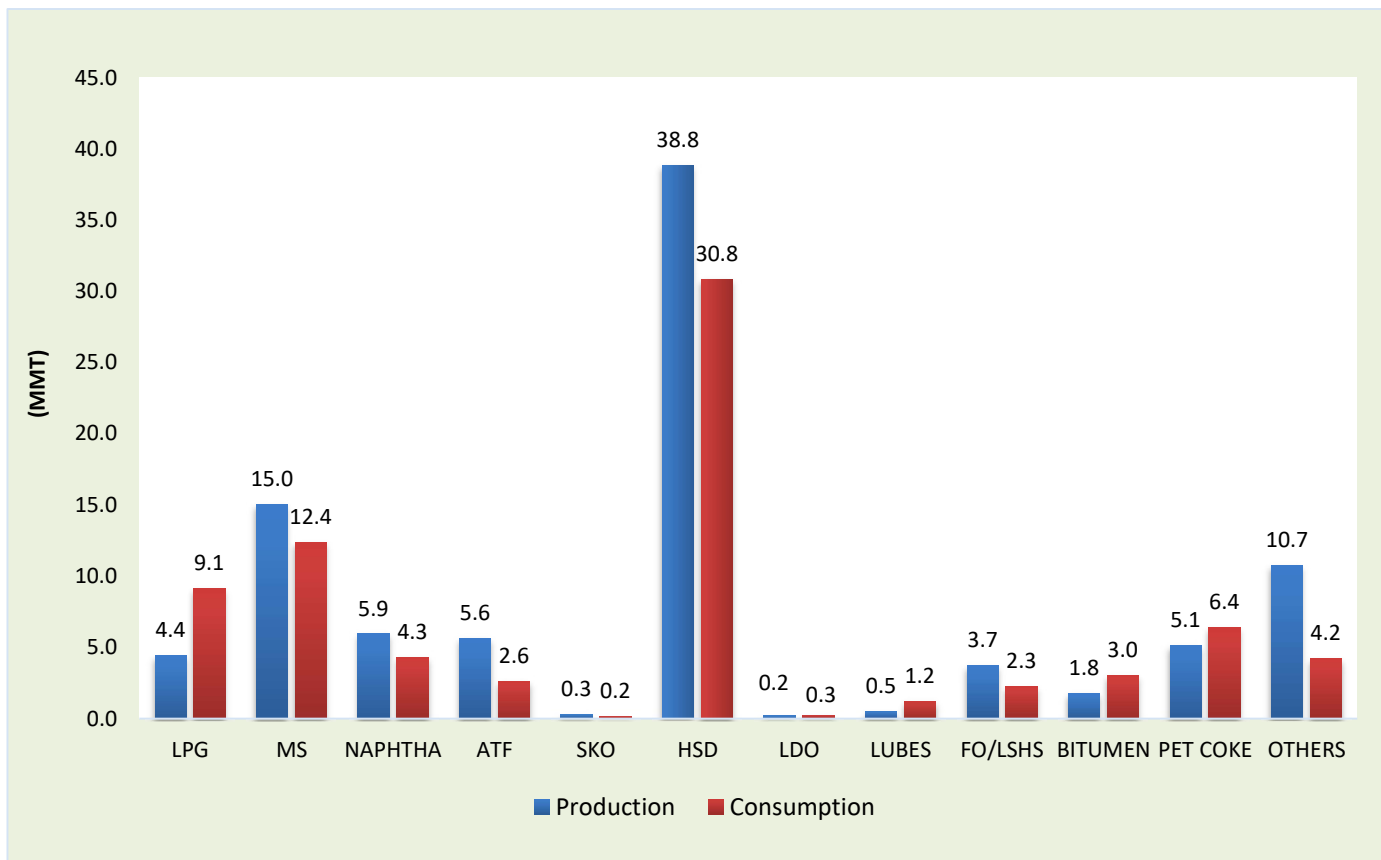
PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Products	2021-22		2022-23 (P)		July 2022		July 2023 (P)		Apr-July 2022		Apr-July 2023 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.2	28.3	12.8	28.5	1.1	2.4	1.1	2.4	4.4	8.9	4.4	9.1
MS	40.2	30.8	42.8	35.0	3.6	2.8	3.8	3.0	14.7	11.6	15.0	12.4
NAPHTHA	20.0	13.2	17.0	12.2	1.4	1.2	1.5	1.1	6.0	3.9	5.9	4.3
ATF	10.3	5.0	15.0	7.4	1.2	0.6	1.4	0.7	4.5	2.3	5.6	2.6
SKO	1.9	1.5	0.9	0.5	0.1	0.0	0.1	0.0	0.4	0.2	0.3	0.2
HSD	107.2	76.7	113.8	85.9	9.3	6.6	9.5	6.9	38.8	28.8	38.8	30.8
LDO	0.8	1.0	0.6	0.7	0.08	0.1	0.05	0.1	0.2	0.2	0.2	0.3
LUBES	1.2	4.5	1.3	3.7	0.1	0.3	0.1	0.3	0.4	1.2	0.5	1.2
FO/LSHS	8.9	6.3	10.4	7.0	0.9	0.6	1.0	0.6	3.3	2.2	3.7	2.3
BITUMEN	5.1	7.8	4.9	8.0	0.2	0.3	0.3	0.5	1.7	2.6	1.8	3.0
PET COKE	15.5	14.3	15.4	18.3	1.3	1.7	1.3	1.6	5.2	6.2	5.1	6.4
OTHERS	30.9	12.3	31.5	15.8	2.6	1.2	2.6	1.0	10.4	5.0	10.7	4.2
ALL INDIA	254.3	201.7	266.5	223.0	22.0	17.7	22.8	18.1	90.1	73.1	92.2	76.8
Growth (%)	-3.1%	-5.4%	4.8%	10.6%	6.2%	8.64%	3.6%	1.9%	11.6%	16.2%	2.4%	5.1%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-July 2023 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)								
Product	2020-21		2021-22		2022-23		2023-24 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	23,15,008	20,38,790	17,83,344	16,59,906	12,43,644	3,96,115	529,572	150,827

* Allocation is for H1, 2023-24 and upliftment is for Apr-July 2023

13. Ethanol blending programme					
Particulars	Ethanol Supply Year *				
	2019-20	2020-21	2021-22	2022-23 (P)	
				July-23	Dec'22-July'23
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	173.0	296.1	408.1	51.5	391.2
Ethanol blended under EBP Program (in Cr. Litrs)	170.5	302.3	433.6	45.8	366.1
Average Percentage of Blending Sales (EBP%)	5.0%	8.1%	10.0%	11.9%	11.8%

*Ethanol Supply Year : Ethanol supplies take place between 1st December of the present year to 30th November 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 01.08.2023) (Provisional)								
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots (Nos.) ^S	120	82	81	18	3		6	310
Aviation Fuel Stations (Nos.) [@]	132	65	54	30			2	283
Retail Outlets (total) (Nos.), out of which Rural ROs	36,527	21,209	21,290	1,603	6,414	344	71	87,458
	11,832	5,309	5,263	130	2,082	89	24	24,729
SKO/LDO agencies (Nos.)	3,849	927	1,638					6,414
LPG Distributors (total) (Nos.) (PSUs only)	12,864	6,245	6,297					25,406
LPG Bottling plants (Nos.) (PSUs only) [#]	97	53	55				3	208
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	10,722	4,890	6,410				203	22,225
LPG active domestic consumers (Nos. crore) (PSUs only)	14.7	8.1	8.6					31.4

^S(Others=4 MRPL & 2 NRL); [@](Others=Shell|MRPL); ⁽(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 01.08.2023) (Provisional)								
Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG LNG	1872	1613	1484	22	36	0	1	5028
EV Charging	5776	790	2159	33	175	227	6	9166
Auto LPG	325	44	126	62	52	0	0	609
Compressed Bio-Gas outlets	46	45	30	1	0	0	0	122
Total Retail outlets with at least one	7451	2208	3596	111	270	227	7	13870
Solarization at Retail outlets	21145	4820	10719	0	912	0	0	37596



PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)								
LPG category	2021-22	2022-23	July			April-July		
			2022-23	2023-24 (P)	Growth (%)	2022-23	2023-24 (P)	Growth (%)
1. PSU Sales :								
LPG-Packed Domestic	25,501.6	25,381.5	2,157.1	2,121.8	-1.6%	8,087.5	8,113.4	0.3%
LPG-Packed Non-Domestic	2,238.8	2,606.0	202.0	224.9	11.3%	703.6	858.4	22.0%
LPG-Bulk	390.9	408.9	35.3	34.7	-1.7%	117.0	120.4	2.9%
Auto LPG	122.0	106.7	9.2	7.9	-14.2%	37.2	31.0	-16.7%
Sub-Total (PSU Sales)	28,253.3	28,503.1	2,403.6	2,389.2	-0.6%	8,945.3	9,123.1	2.0%
2. Direct Private Imports*	0.1	0.1	0.00	0.01	-	0.02	0.05	170.8%
Total (1+2)	28,253.4	28,503.2	2,403.6	2,389.2	-0.6%	8,945.3	9,123.2	2.0%

*June -July'23 DGCIS data is prorated

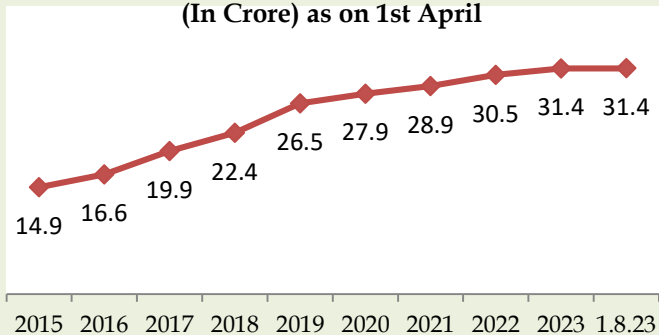
16. LPG marketing at a glance														
Particulars (As on 1st of April)	Unit	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	1.08.23 (P)
LPG Active Domestic Customers	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3143
	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	1.1%
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	958.6
	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	1.5%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25406
	Growth	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.5%	0.4%
Auto LPG Dispensing Stations	(No.)	652	667	678	681	676	675	672	661	657	651	601	526	496
	Growth	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-12.5%	-13.1%
Bottling Plants	(No.)	184	185	187	187	188	189	190	192	196	200	202	208	208
	Growth	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	4.5%	2.5%

Source: PSU OMCs (IOCL, BPCL and HPCL)

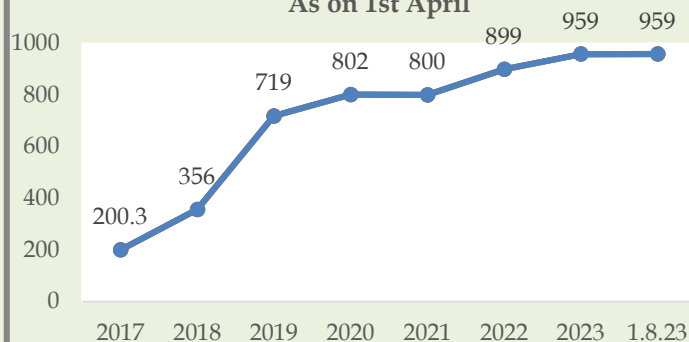
1. Growth rates as on 01.08.2023 are with respect to figs as on 01.08.2022. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

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.

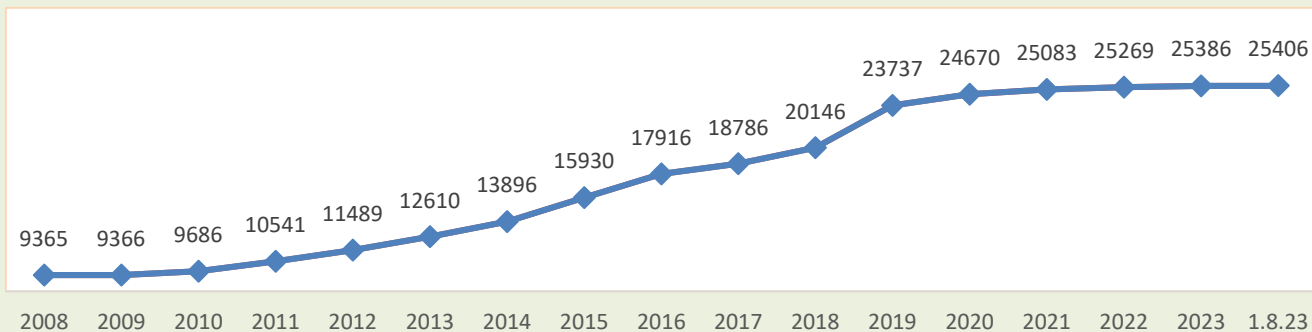
**Number of active domestic LPG customers
(In Crore) as on 1st April**



**Number of PMUY beneficiaries (in Lakhs)
As on 1st April**



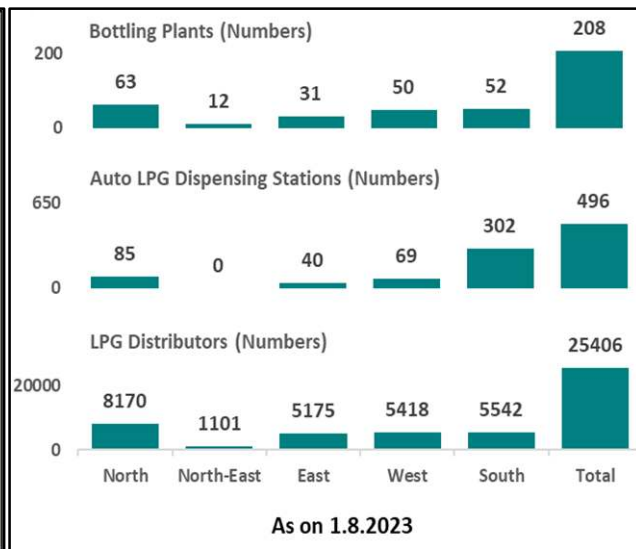
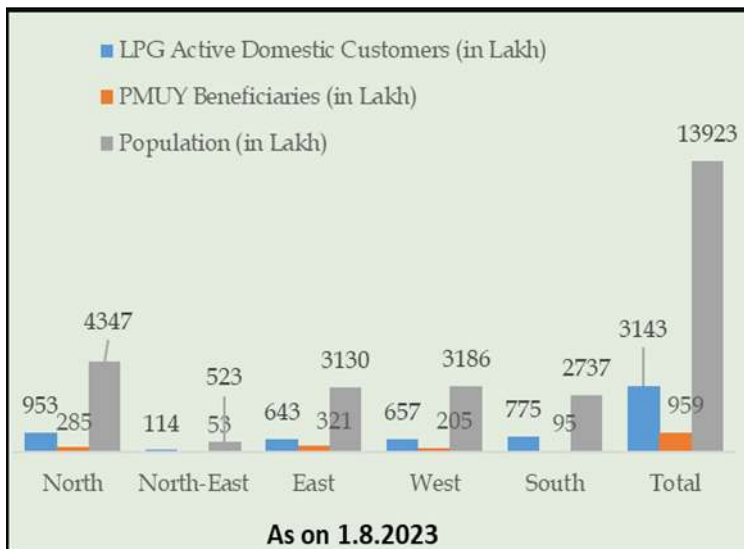
**Number of LPG distributors
(As on 1st April)**



17-Region-wise data on LPG marketing (As on 01.08.2023)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	953.2	114.2	643.2	657.3	775.1	3143.1
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3
PMUY Beneficiaries (in Lakh)	285.2	53.0	320.9	204.6	94.8	958.5
LPG Distributors (Numbers)	8170	1101	5175	5418	5542	25406
Auto LPG Dispensing Stations (Numbers)	85	0	40	69	302	496
Bottling Plants* (Numbers)	63	12	31	50	52	208

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





PART-E

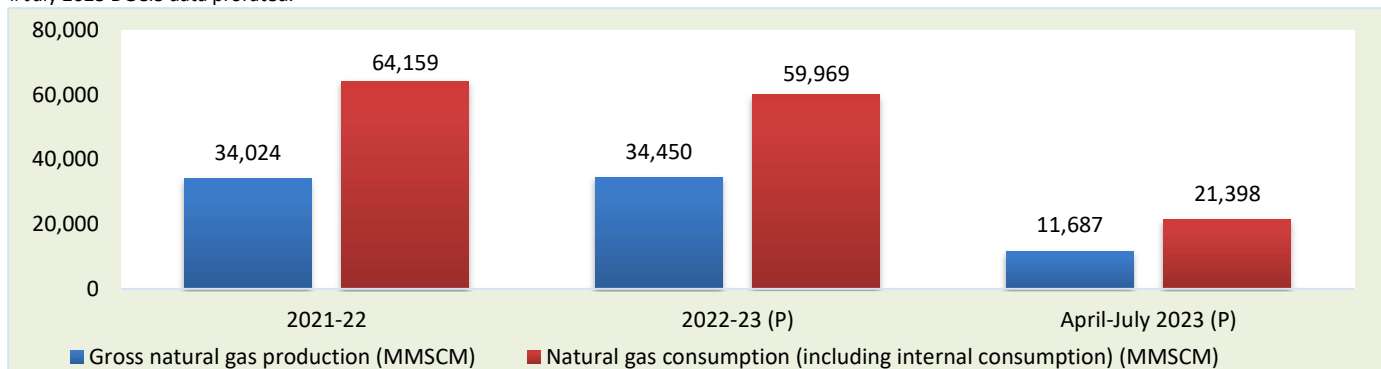
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2021-22 (P)	2022-23 (P)	July			April-July		
			2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
(a) Gross production	34,024	34,450	2,883	3,246	3,123	11,436	11,990	11,687
- ONGC	20,629	19,969	1,663	1,740	1,644	6,749	6,881	6,522
- Oil India Limited (OIL)	2,893	3,041	263	274	263	1,005	1,019	996
- Private / Joint Ventures (JVs)	10,502	11,440	957	1,232	1,217	3,681	4,091	4,169
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,811		3,063	11,152		11,417
(c) LNG import [#]	31,028	26,304	2,500		2,234	9,773		9,982
(d) Total consumption including internal consumption (b+c)	64,159	59,969	5,311		5,297	20,925		21,398
(e) Total consumption (in BCM)	64.2	60.0	5.3		5.3	20.9		21.4
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	47.1		42.2	46.7		46.6

July 2023 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		17652	Sq. KM
Area awarded		20460	Sq. KM
Blocks awarded*		36	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)		10670***	Sq. KM
Production of CBM gas		April-July 2023 (P)	216.18
Production of CBM gas		July 2023 (P)	55.06
			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 01.08.2023) (Provisional)								
Particulars	Units	IOCL	HPCL	BPCL	GAIL	IGL	Total	
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	22	6	2	9	3		42
Start of CBG sale from retail outlet(s)	Nos.	50	30	45	1	2		128
Sale of CBG in 2022-23	Tons	5,822	77	6	5322#			11,227
Sale of CBG in 2023-24 (up to July, 2023)	Tons	1746	8	20	2804#			4,578
Sale of CBG in CGD network	GA Nos.				18			18

Sale of CBG sourced under CBG-CGD synchronization scheme through its own marketing channels as well as other CGDs/OMCs.

20. Common Carrier Natural Gas pipeline network as on 31.03.2023															
Nature of pipeline		GAIL	GSPL	PIIL	IOCL	AGCL	RGPL	GGI	DFPCL	ONGC	GIGL	GITL	Others*	Total	
Operational	Length	10,930	2,716	1,484	143	107	304	73	42	24				15,823	
	Capacity	233.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				-	
Partially commissioned#	Length	4,173			282						1,279	365		6,099	
	Capacity				-						-	-		-	
Total operational length		15,103	2,716	1,484	425	107	304	73	42	24	1,279	365	0	21,921	
Under construction	Length	5,095	100		1,149						1,077	1,666	2,915	12,002	
	Capacity	-	3.0		-						-	-	-	-	
Total length		20,197	2,816	1,484	1,574	107	304	73	42	24	2,356	2,031	2,915	33,141	

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, Consortium of H-Energy. Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 35379 Kms (P)

21. Existing LNG terminals			
Location	Promoters	Capacity as on 01.08.2023	% Capacity utilisation (April-July 2023)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	95.7
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	33.3
Dabhol	Konkan LNG Limited	*5 MMTPA	49.4
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.2
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	14.7
Mundra	GSFC LNG Limited	5 MMTPA	11.1
Dhamra	Adani Total Private Limited	5 MMTPA	19.0
Total Capacity		47.7 MMTPA	

* To increase to 5 MMTPA with breakwater. Only HP stream of capacity of 2.9 MMTPA is commissioned

22. Status of PNG connections and CNG stations across India (Nos.), as on 30.06.2023(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	164	256,372	440	36
Andhra Pradesh, Karnataka & Tamil Nadu	40	382	0	5
Assam	5	50,913	1,354	448
Bihar	101	106,880	85	4
Bihar & Jharkhand	3	7,423	1	0
Bihar & Uttar Pradesh	14	0	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	25	25,977	125	25
Chhattisgarh	9	0	0	0
Dadra & Nagar Haveli (UT)	7	11,406	56	59
Daman & Diu (UT)	5	5,158	53	45
Daman and Diu & Gujarat	15	2,468	11	0
Goa	12	11,113	18	33
Gujarat	1,002	3,045,768	22,631	5,736
Haryana	346	326,356	872	1,830
Haryana & Himachal Pradesh	10	0	0	0
Haryana & Punjab	25	294	0	0
Himachal Pradesh	8	6,476	4	0
Jharkhand	79	113,157	5	1
Karnataka	307	391,264	537	318
Kerala	111	49,192	23	16
Kerala & Puducherry	9	419	0	0
Madhya Pradesh	236	212,313	365	458
Madhya Pradesh and Chhattisgarh	7	0	0	0
Madhya Pradesh and Rajasthan	32	454	0	0
Madhya Pradesh and Uttar Pradesh	16	0	0	2
Maharashtra	770	2,919,856	4,658	910
Maharashtra & Gujarat	60	160,219	6	24
Maharashtra and Madhya Pradesh	11	0	0	0
National Capital Territory of Delhi (UT)	480	1,453,894	3,631	1,815

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Odisha	68	91,688	5	0
Puducherry	2	0	0	0
Puducherry & Tamil Nadu	8	220	1	0
Punjab	206	73,112	414	264
Punjab & Rajasthan	12	0	0	0
Rajasthan	256	231,164	128	1,560
Tamil Nadu	206	3,586	4	10
Telangana	157	193,589	84	105
Telangana and Karnataka	3	0	0	0
Tripura	18	59,854	506	62
Uttar Pradesh	816	1,411,014	2,346	2,782
Uttar Pradesh & Rajasthan	40	18,958	39	344
Uttar Pradesh and Uttarakhand	26	9,974	0	0
Uttarakhand	31	69,831	68	86
West Bengal	72	622	1	1
Total	5,830	11,321,366	38,471	16,979

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
November 2014 - March 2015	5.05	-
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 price in US\$/MMBTU	Domestic Gas ceiling price for ONGC/OIL in US\$/MMBTU	Period	HP-HT Gas price ceiling in US\$/MMBTU
8 April 2023 - 30 April 2023	7.92	6.50	April 2023 - September 2023	12.12
1 May 2023 - 31 May 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		

Natural Gas prices are on GCV basis

24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	73.59	48.59	IGL website (09.08.2023)
Mumbai	79.00	49.00	MGL website (09.08.2023)

Indian Natural Gas Spot Price for Physical Delivery

IGX Price Index Month	Avg. Price		Volume (MMSCM)	Source
	INR/MMBTu	\$/MMBTu		
July 2023	866	10.55	45.24	As per IGX website: www.igxindia.com

*Prices are weighted average prices | \$1=INR 82.15 | 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)				Price buildup of petroleum products (Rs./litre/Cylinder) *		
Particulars	2021-22	2022-23	July 2023	Particulars	Petrol	Diesel
Crude oil (Indian Basket)	79.18	93.15	80.37	Price charged to dealers (excluding Excise Duty and VAT)	57.33	58.14
Petrol	89.66	107.00	93.20	Excise Duty	19.90	15.80
Diesel	88.45	128.08	98.76	Dealers' Commission (Average)	3.78	2.57
Kerosene	85.31	120.55	96.02	VAT (incl VAT on dealers' commission)	15.71	13.11
LPG (\$/MT)	692.67	711.50	385.00	Retail Selling Price	96.72	89.62
FO (\$/MT)	445.25	452.66	448.75			
Naphtha (\$/MT)	698.25	666.53	546.29			
Exchange (Rs./\$)	74.51	80.39	82.15			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates		PDS SKO	Subsidised Domestic LPG
Petrol	2.50%	Rs 19.90/Ltr	**	Price before taxes and dealers'/distributors' commission	56.77	985.62
Diesel	2.50%	Rs 15.80/Ltr	**	Dealers'/distributors' commission	2.65	64.84
PDS SKO	5.00%	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	2.97	52.54
Non-PDS SKO	5.00%		18.00%	Retail Selling Price	62.39	1103.00
Domestic LPG	Nil***		5.00%			
Non Domestic LPG	5% + 15% AIDC@		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.4250/ MT SAED ^^^	**			

*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; # Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST.*** 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% and AIDC 15% for other importers of domestic LPG, ^^ effective 02.02.2023 ,^^^ Effective 01.08.2023 SAED on crude oil.@ 15% AIDC effective 01.07.2023

*Petrol and Diesel at Delhi as per IOCL are as on 1st August 2023. PDS SKO at Mumbai as on 1st August 2023 and Subsidised Domestic LPG at Delhi as on 1st August 2023.

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	-	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	2021-22		2022-23	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	321,099	50,941	321,099	50,941
Downstream Companies (PSU)	19,16,438	1,138	19,16,438	1,138
Standalone Refineries (PSU)	245,272	9,875	245,272	9,875
Private-RIL	566,805	44,205	566,805	44,205

Borrowings of OMCs (Rs. Crores), As on

Company	Mar'21	Mar'22	Mar'23
IOCL	102,327	110,799	132,495
BPCL	26,315	24,123	35,855
HPCL	40,009	43,193	64,517

Petroleum sector contribution to Central/State Govt.

Particulars	2021-22	2022-23	Q1-2023-24 (P)
Central Government	4,55,069	4,92,303	428,067
% of total revenue receipts	28%	23%	18%
State Governments	2,17,650	2,82,122	320,651
% 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	2020-21	2021-22	2022-23 (P)	2023-24 (P)	
				Target (Annual)	Apr-July 23
ONGC Ltd	26,441	26,621	29,209	30,125	10,295
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	889
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	1,446
GAIL (India) Ltd	5,560	6,970	8,313	7,750	2,716
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	10,771
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	3,593
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	1,930
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	249
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	175
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	2,271
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	15
Engineers India Ltd (EIL)	730	67	60	98	13
Total	106,642	104,596	113,853	106,401	34,363

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				Volume conversion	
Product	Weight (MT)	Volume (KL)	Barrel (bbl)	From	To
LPG	1	1.844	11.60	1 US Barrel (bbl)	159 litres
Petrol (MS)	1	1.411	8.88	1 US Barrel (bbl)	42 US Gallons
Diesel (HSD)	1	1.210	7.61	1 US Gallon	3.78 litres
Kerosene (SKO)	1	1.285	8.08	1 Kilo litre (KL)	6.29 bbl
Aviation Turbine Fuel (ATF)	1	1.288	8.10	1 Million barrels per day	49.8 MMTPA
Light Diesel Oil (LDO)	1	1.172	7.37	Energy conversion	
Furnace Oil (FO)	1	1.0424	6.74	1 Kilocalorie (kcal)	4.187 kJ
Crude Oil	1	1.170	7.33	1 Kilocalorie (kcal)	3.968 Btu
Exclusive Economic Zone				1 Kilowatt-hour (kWh)	860 kcal
200 Nautical Miles	370.4 Kilometers			1 Kilowatt-hour (kWh)	3,412 Btu

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



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