



Snapshot of India's Oil & Gas data



Monthly Ready Reckoner February-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.

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Highlights for the month

- Indigenous crude oil and condensate production during February 2024 was 2.3 MMT. OIL registered a production of 0.3 MMT, ONGC registered a production of 1.4 MMT whereas PSC/RSC registered production of 0.6 MMT during February 2024. There is a growth of 7.9% in crude oil and condensate production during February 2024 as compared to February 2023.
- Total Crude oil processed during February 2024 was 20.9 MMT which is 0.14% higher than February 2023, where PSU/JV refiners processed 14.4 MMT and private refiners processed 6.5 MMT of crude oil. Total indigenous crude oil processed was 2.1 MMT and total Imported crude oil processed was 18.8 MMT by all Indian refineries (PSU+JV+PVT). There was a growth of 2.6 % in total crude oil processed in April February FY 2023 – 24 as compared to same period of FY 2022 – 23.
- Crude oil imports decreased by 6.6% and increased by 0.4% during February 2024 and April-February 2023-24 respectively as compared to the corresponding period of the previous year. As compared to net import bill for Oil & Gas for February 2023 of \$9.6 billion, the net import bill for Oil & Gas for February 2024 was \$9.2 billion. Out of which, crude oil imports constitutes \$10.2 billion, LNG imports \$1.1 billion and the exports were \$4.1 billion during February 2023.
- The price of Brent Crude averaged \$83.93/bbl during February 2024 as against \$80.32/bbl during January 2024 and \$82.49/bbl during February 2023. The Indian basket crude price averaged \$81.62/bbl during February 2024 as against \$79.22/bbl during January 2024 and \$82.28 /bbl during February 2023.
- Production of petroleum products was 22.4 MMT during February 2024 which is 2.6% higher than that of February 2023. Out of 22.4 MMT, 22.1 MMT was from refinery production & 0.3 MMT was from fractionator. There was a growth of 3.8 % in production of petroleum products during April February FY 2023 – 24 as compared to same period of FY 2022 – 23. Out of total POL production in February 2024, share of major products, HSD is 42.3 %, MS 16.4 %, Naphtha 7.3 %, ATF 6.5 %, Pet Coke 5.3 %, LPG 4.5% and balance is Bitumen, FO/LSHS, LDO, Lubes & others.
- POL products imports increased by 8.7% and 8.8% during February 2024 and April-February 2023-24 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-February 2023-24 were mainly due to increase in imports of petcoke, fuel oil (FO) and bitumen.

<ul style="list-style-type: none"> Exports of POL products increased by 14.8% and 4.2% during February 2024 and April-February 2023-24 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-February 2023-24 were mainly due to increase in exports of aviation turbine fuel (ATF), vacuum gas oil (VGO) and motor-spirit (MS).
<ul style="list-style-type: none"> The consumption of petroleum products during April-February 2024, with a volume of 212.2 MMT, reported a growth of 5.2 % compared to the volume of 201.8 MMT during the same period of the previous year. This growth was led by 6.4% growth in MS, 4.5% in HSD & 11.9% in ATF & 15.1% in Naptha consumption besides LPG, Lubes, Bitumen, Petcoke and LDO during the period. The consumption of petroleum products during February 2024 recorded growth of 5.7% with a volume of 19.7 MMT compared to the same period of the previous year.
<ul style="list-style-type: none"> Ethanol blending with Petrol was 12.9% during February 2024 and cumulative ethanol blending during November2023-February 2024 was 11.6%. As on 29.02.2024, 11,444 PSU outlets out of 80,751 total PSU Retail Outlets are dispensing E20 Ethanol Blended MS.
<ul style="list-style-type: none"> Total Natural Gas Consumption (including internal consumption) for the month of February 2024 was 5332 MMSCM which was 20.4 % higher than the corresponding month of the previous year. The cumulative consumption of 60578 MMSCM for the current financial year till February 2024 was higher by 11.1 % compared with the corresponding period of the previous year.
<ul style="list-style-type: none"> Gross production of natural gas for the month of February 2024 (P) was 2947 MMSCM which was higher by 11.1 % compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 33299 MMSCM for the current financial year till February 2024 was higher by 5.7 % compared with the corresponding period of the previous year.
<ul style="list-style-type: none"> LNG import for the month of February 2024 (P) was 2445 MMSCM which was 33.3 % higher than the corresponding month of the previous year. The cumulative import of 27933 (P) MMSCM for the current financial year till February 2024 is higher by 17.6 % 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	7.6 (E)
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	5.8 RE

Economic indicators		Unit/ Base	2021-22	2022-23	February		April-February	
					2022-23	2023-24 (P)	2022-23	2023-24 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	11.4	5.5#	6.5*	-0.3* QE	-0.2#	4.6#
6	Imports^	\$ Billion	611.9	714.2	52.8	54.4	601.5	561.1
7	Exports^	\$ Billion	422.0	451.0	35.8	36.9	372.1	353.9
8	Trade Balance	\$ Billion	-189.9	-263.2	-17.0	-17.5	-229.4	-207.2
9	Foreign Exchange Reserves @	\$ Billion	617.6	578.4	560.9	619.1	-	-

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

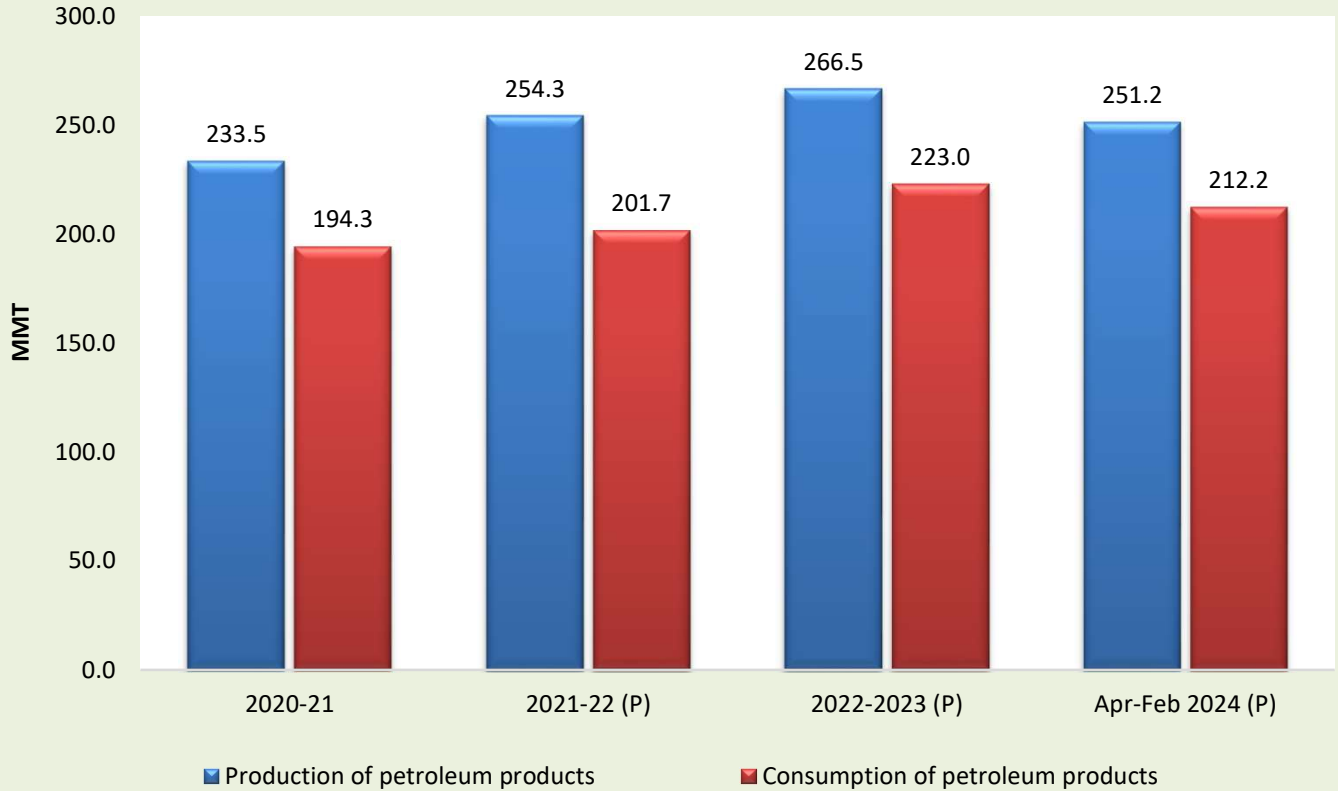
Source: Registrar General India, Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

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

Details		Unit/ Base	2021-22 (P)	2022-23 (P)	February		April-February	
					2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	Crude oil production in India [#]	MMT	29.7	29.2	2.2	2.3	26.7	26.9
2	Consumption of petroleum products*	MMT	201.7	223.0	18.7	19.7	201.8	212.2
3	Production of petroleum products	MMT	254.3	266.5	21.9	22.4	242.0	251.2
4	Gross natural gas production	MMSCM	34,024	34,450	2,651	2,947	31,494	33,299
5	Natural gas consumption	MMSCM	64,159	59,969	4,430	5,332	54,530	60,578
6	Imports & exports:							
	Crude oil imports	MMT	212.4	232.7	19.3	18.0	211.8	212.6
		\$ Billion	120.7	157.5	10.4	10.2	146.6	120.8
	Petroleum products (POL) imports*	MMT	39.0	44.6	3.7	4.0	40.2	43.8
		\$ Billion	23.7	26.9	2.2	2.1	24.7	21.2
	Gross petroleum imports (Crude + POL)	MMT	251.4	277.3	23.0	22.1	252.0	256.4
		\$ Billion	144.3	184.4	12.6	12.2	171.4	142.1
	Petroleum products (POL) export	MMT	62.8	61.0	5.1	5.8	55.0	57.3
		\$ Billion	44.4	57.3	4.1	4.1	52.8	43.3
	LNG imports*	MMSCM	31,028	26,304	1,834	2,445	23,755	27,933
		\$ Billion	13.5	17.1	1.1	1.1	15.9	12.0
	Net oil & gas imports	\$ Billion	113.4	144.2	9.6	9.2	134.4	110.8
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	23.6	25.8	23.8	22.5	28.5	25.3
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	12.7	11.4	11.1	14.2	12.2
9	Import dependency of crude oil (on POL consumption basis)	%	85.5	87.4	89.3	88.8	87.2	87.7

[#]Includes condensate; *Private direct imports are prorated for the period Dec'23 to Feb'24 for POL. LNG Imports figure from DGCIS are prorated for Jan'24 to Feb'24. 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)	February			April-February		
			2022-23 (P)	2023-24 Target*	2023-24 (P)	2022-23 (P)	2023-24 Target*	2023-24 (P)
ONGC	18.5	18.4	1.4	1.5	1.4	16.9	17.6	16.6
Oil India Limited (OIL)	3.0	3.2	0.2	0.3	0.3	2.9	3.1	3.1
Private / Joint Ventures (JVs)	7.0	6.2	0.4	0.6	0.4	5.7	6.8	5.2
Total Crude Oil	28.4	27.8	2.1	2.4	2.1	25.5	27.5	24.9
ONGC condensate	0.9	1.0	0.1	0.0	0.1	1.0	0.0	1.0
PSC condensate	0.3	0.31	0.03	0.0	0.1	0.3	0.0	1.0
Total condensate	1.2	1.4	0.11	0.0	0.2	1.2	0.0	2.0
Total (Crude + Condensate) (MMT)	29.7	29.2	2.2	2.4	2.3	26.7	27.5	26.9
Total (Crude + Condensate) (Million Bbl/Day)	0.60	0.59	0.55	0.60	0.59	0.58	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)	February		April-February	
			2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
Total domestic production (MMTOE)	63.7	63.6	4.8	5.3	58.2	60.2
Overseas production (MMTOE)	21.8	19.5	1.6	1.6	17.8	18.2

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)	February		April-February	
				2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	High Sulphur crude	185.0	197.9	16.7	16.7	179.9	186.4
2	Low Sulphur crude	56.7	57.4	4.2	4.2	52.3	51.8
Total crude processed (MMT)		241.7	255.2	20.8	20.9	232.2	238.2
Total crude processed (Million Bbl/Day)		4.85	5.13	5.27	5.28	5.08	5.21
Percentage share of HS crude in total crude oil processing		76.6%	77.5%	79.9%	79.8%	77.5%	78.3%

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
April-Feb 2023-24(P)	212.6	1,20,848	10,00,765

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

Particulars		2021-22	2022-23 (P)	February		April-February	
				2022-23 (P)	2023-24 (P)	2022-23 (P)	2023-24 (P)
1	Indigenous crude oil processing	27.0	26.4	1.9	2.1	24.3	24.5
2	Products from indigenous crude (93.3% of crude oil processed)	25.2	24.7	1.8	1.9	22.6	22.9
3	Products from fractionators (Including LPG and Gas)	4.1	3.5	0.2	0.3	3.2	3.2
4	Total production from indigenous crude & condensate (2 + 3)	29.3	28.2	2.0	2.2	25.8	26.1
5	Total domestic consumption	201.7	223.0	18.7	19.7	201.8	212.2
% Self-sufficiency (4 / 5)		14.5%	12.6%	10.7%	11.2%	12.8%	12.3%

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)	February			April-February		
					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	0.5	0.5	0.5	6.2	6.1	6.0
2	Koyali (1965)	13.7	13.5	15.6	1.2	1.2	1.2	14.2	13.1	13.8
3	Haldia (1975)	8.0	7.3	8.5	0.7	0.7	0.7	7.8	6.9	7.3
4	Mathura (1982)	8.0	9.1	9.6	0.7	0.7	0.8	8.7	8.3	8.3
5	Panipat (1998)	15.0	14.8	13.8	1.2	1.3	0.7	12.5	13.3	13.2
6	Guwahati (1962)	1.0	0.7	1.1	0.09	0.09	0.1	1.0	0.9	0.9
7	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.06	0.7	0.6	0.6
8	Bongaigaon(1979)	2.70	2.6	2.8	0.2	0.2	0.2	2.5	2.5	2.8
9	Paradip (2016)	15.0	13.2	13.6	1.2	1.2	1.3	12.2	14.0	13.8
	IOCL-TOTAL	70.1	67.7	72.4	5.9	6.0	5.6	65.7	65.8	66.7
10	Manali (1969)	10.5	9.0	11.3	0.9	0.9	1.0	10.3	9.3	10.6
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	0.9	0.9	1.0	10.3	9.3	10.6
12	Mumbai (1955)	12.0	14.4	14.5	1.3	1.2	1.3	13.2	13.2	13.6
13	Kochi (1966)	15.5	15.4	16.0	1.4	1.3	1.2	14.5	14.4	15.8
14	Bina (2011)	7.8	7.4	7.8	0.7	0.6	0.7	7.1	6.3	6.5
	BPCL-TOTAL	35.3	37.2	38.4	3.4	3.1	3.2	34.8	34.0	35.8
15	Numaligarh (1999)	3.0	2.6	3.1	0.2	0.3	0.3	2.9	2.5	2.2

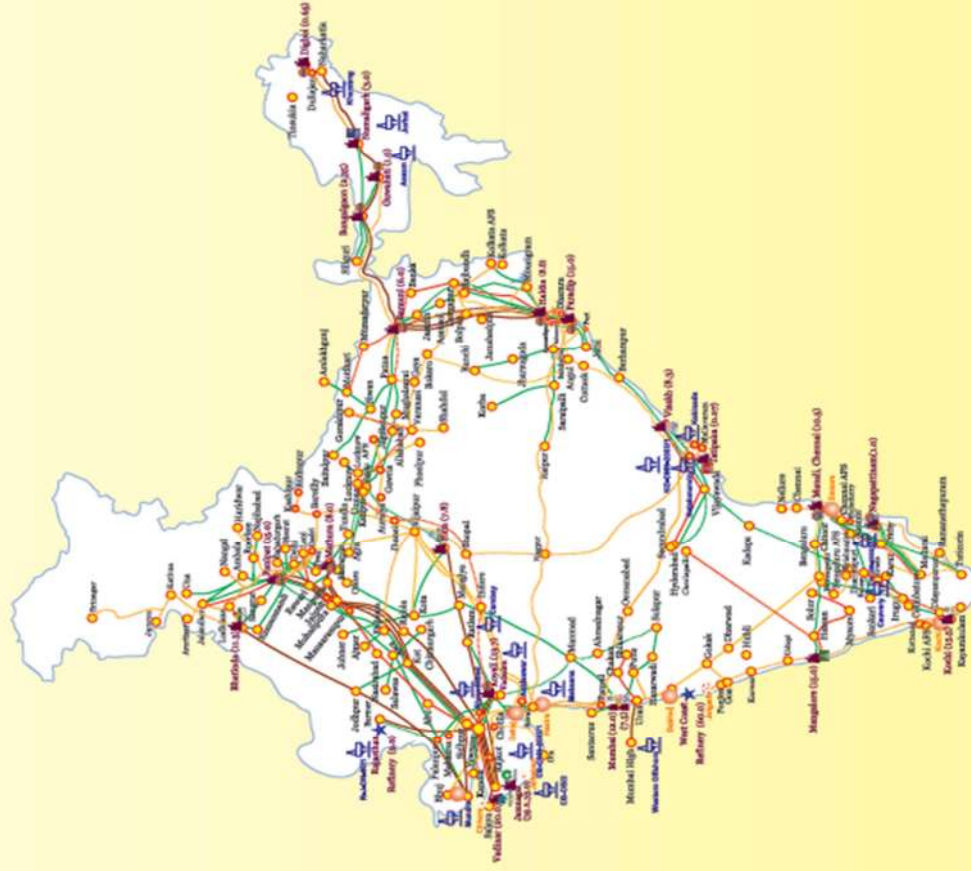
Sl. no.	Refinery	Installed capacity (01.04.2023) MMTPA	Crude oil processing (MMT)							
			2021-22	2022-23	February			April-February		
					2022-23 (P)	2023-24 (Target)	2023-24 (P)	2022-23 (P)	2023-24 (Target)	2023-24 (P)
16	Tatipaka (2001)	0.07	0.08	0.07	0.01	0.005	0.006	0.07	0.06	0.06
17	MRPL-Mangalore (1996)	15.0	14.9	17.1	1.4	1.3	1.5	15.6	14.4	15.0
	ONGC-TOTAL	15.1	14.9	17.2	1.4	1.4	1.5	15.7	14.5	15.1
18	Mumbai (1954)	9.5	5.6	9.8	0.8	0.8	0.7	8.9	8.2	9.1
19	Visakh (1957)	11.0	8.4	9.3	0.7	1.0	1.3	8.4	10.8	11.4
20	HMEL-Bathinda (2012)	11.3	13.0	12.7	1.0	0.9	0.9	11.6	10.4	11.5
	HPCL- TOTAL	31.8	27.0	31.8	2.6	2.7	2.8	29.0	29.5	32.0
21	RIL-Jamnagar (DTA) (1999)	33.0	34.8	34.4	2.6	2.6	2.7	31.6	31.6	31.4
22	RIL-Jamnagar (SEZ) (2008)	35.2	28.3	27.9	2.3	2.3	2.2	25.3	25.3	25.7
23	NEL-Vadinar (2006)	20.0	20.2	18.7	1.6	1.6	1.6	17.0	17.0	18.6
All India (MMT)		253.9	241.7	255.2	20.8	20.7	20.9	232.2	229.4	238.2
All India (Million Bbl/Day)		5.02	4.85	5.13	5.27	5.23	5.28	5.08	5.02	5.21

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 01.03.2024)										
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	5,123	2,399	23,357
	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



Debbal (Dabhol), Hazira, Kochi, Mundra, Ennore
 ★ (Upcoming Terminals) Dhamra, Jafarabad, Jajigarh, Chikranthi

LEGENDS

Pipeline Network



- Crude Oil Pipeline
- Ongoing Crude Oil Pipeline
- Product Pipeline
- Ongoing Product Pipeline
- LNG Pipeline
- Ongoing LNG Pipeline
- Gas Pipeline
- Ongoing Gas Pipeline

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

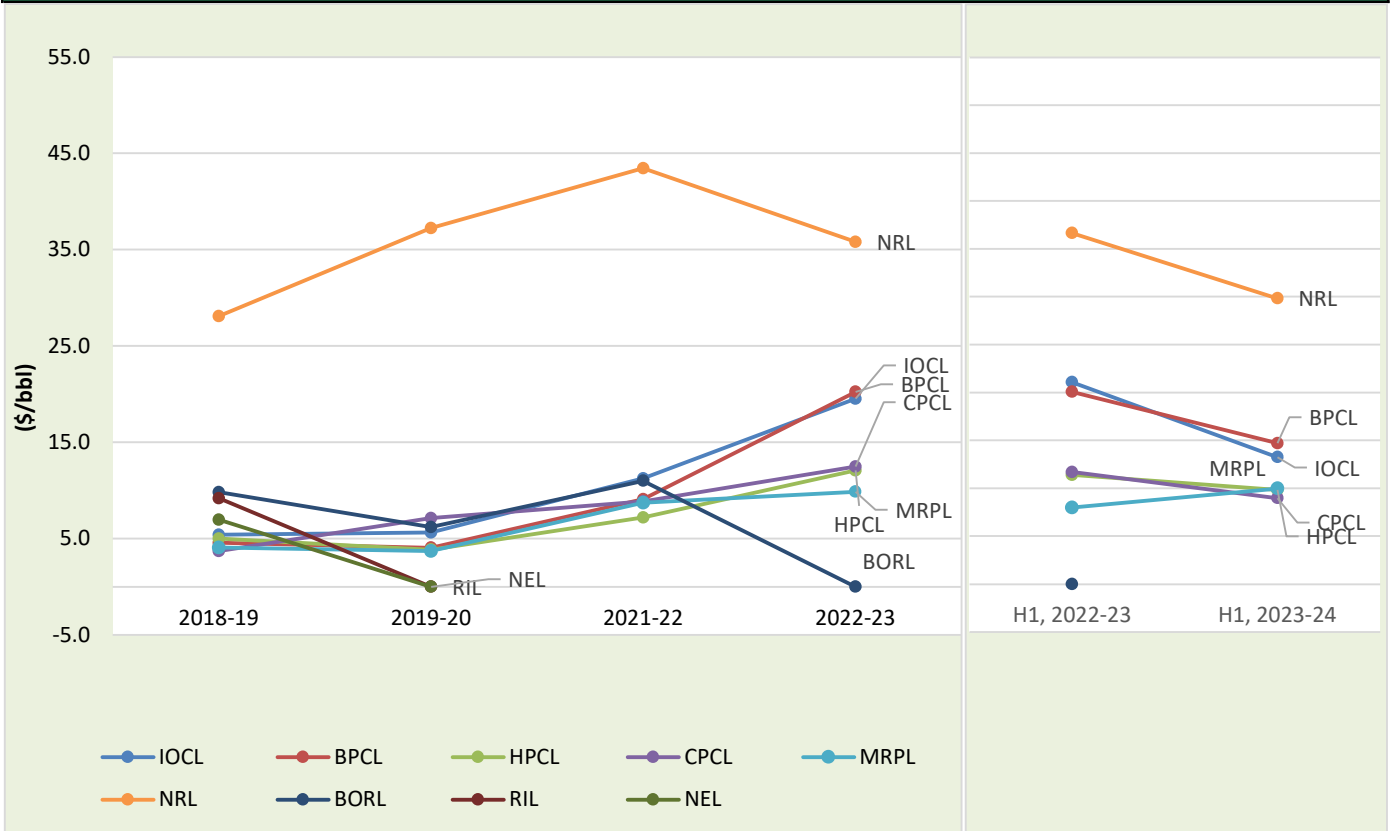
Company	2020-21	2021-22	2022-23	Apr - Dec	
				2022-23	2023-24
IOCL	5.64	11.25	19.52	21.08	13.26
BPCL	4.06	9.09	20.24	20.08	14.72
HPCL	3.86	7.19	12.09	11.40	9.84
CPCL	7.14	8.85	12.48	11.70	8.98
MRPL	3.71	8.72	9.88	8.00	9.98
NRL	37.23	43.46	35.82	36.65	29.84
BORL	6.20	11.00	#	#	#
RIL	*	*	*	*	*
NEL	*	*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

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

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



GRM of North Eastern refineries are including excise duty benefit



PART-C

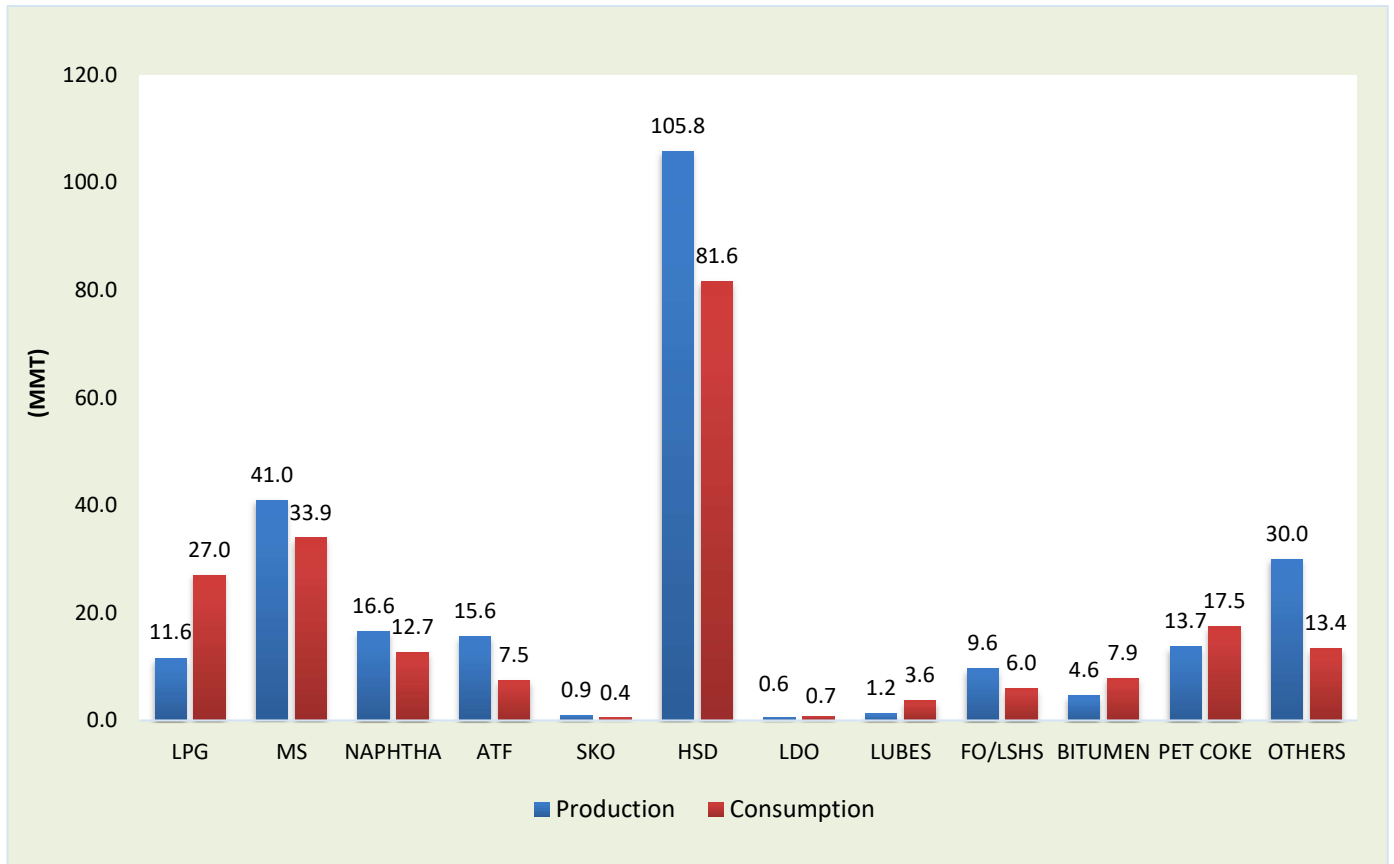
Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)

Products	2021-22		2022-23 (P)		Feb- 2023 (P)		Feb-2024 (P)		Apr-Feb 2023 (P)		Apr-Feb 2024 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.2	28.3	12.8	28.5	1.0	2.4	1.0	2.6	11.7	26.1	11.6	27.0
MS	40.2	30.8	42.8	35.0	3.5	2.8	3.7	3.0	38.8	31.9	41.0	33.9
NAPHTHA	20.0	13.2	17.0	12.2	1.4	1.1	1.6	1.2	15.5	11.0	16.6	12.7
ATF	10.3	5.0	15.0	7.4	1.3	0.6	1.4	0.7	13.6	6.7	15.6	7.5
SKO	1.9	1.5	0.9	0.5	0.1	0.0	0.0	0.0	0.8	0.5	0.9	0.4
HSD	107.2	76.7	113.8	85.9	9.3	7.0	9.5	7.4	103.5	78.1	105.8	81.6
LDO	0.8	1.0	0.6	0.7	0.05	0.1	0.03	0.1	0.6	0.6	0.6	0.7
LUBES	1.2	4.5	1.3	3.7	0.1	0.3	0.1	0.3	1.2	3.3	1.2	3.6
FO/LSHS	8.9	6.3	10.4	7.0	0.8	0.6	0.8	0.5	9.6	6.4	9.6	6.0
BITUMEN	5.1	7.8	4.9	8.0	0.4	0.9	0.5	0.9	4.3	7.0	4.6	7.9
PET COKE	15.5	14.3	15.4	18.3	1.2	1.6	1.2	1.5	14.0	16.4	13.7	17.5
OTHERS	30.9	12.3	31.5	15.8	2.5	1.4	2.5	1.4	28.5	13.9	30.0	13.4
ALL INDIA	254.3	201.7	266.5	223.0	21.9	18.7	22.4	19.7	242.0	201.8	251.2	212.2
Growth (%)	-3.1%	-5.4%	4.8%	10.6%	3.3%	-2.1%	2.6%	5.7%	5.2%	24.6%	3.8%	5.2%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-February 2024 (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	9,71,796	3,59,401

* Allocation is for Apr-Mar 2023-24 and upliftment is for Apr-Feb' 2024

13. Ethanol blending programme					
Particulars	Ethanol Supply Year *				
	2020-21	2021-22	2022-23 (Dec'22- Oct'23)	Feb'24	Nov'23-Feb'24
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	296.1	408.1	494.0	52.5	169.2
Ethanol blended under EBP Program (in Cr. Litrs)	302.3	433.6	508.8	48.7	177.6
Average Percentage of Blending Sales (EBP%)	8.1%	10.0%	12.1%	12.9%	11.6%

*Ethanol Supply Year : Ethanol supply year for 2022-23 taken for Dec'22-Oct'23 & thereafter changed to ethanol supplies between 1st February of the present 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 01.03.2024) (Provisional)								
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	MRPL & Others	Total
POL Terminal/ Depots (Nos.) [§]	126	80	81	17	3		6	313
Aviation Fuel Stations (Nos.) [@]	129	62	55	31			10	287
Retail Outlets (total) (Nos.), out of which Rural ROs	37,224	21,676	21,762	1,703	6,599	343	89	89,396
SKO/LDO agencies (Nos.)	12,106	5,470	5,388	130	2,114	89	31	25,328
LPG Distributors (total) (Nos.) (PSUs only)	3,830	927	1,638					6,395
LPG Bottling plants (Nos.) (PSUs only) [#]	12,874	6,247	6,339					25,460
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	98	53	56				3	210
LPG active domestic consumers (Nos. crore) (PSUs only)	10,973	5,100	6,470				203	22,746
	15.1	8.3	8.9					32.3

[§](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 01.03.2024) (Provisional)								
Alternate fuel	IOCL	BPCL	HPCL	RBML/RSIL	NEL	SHELL	MRPL	Total
CNG LNG	2091	1817	1631	27	37	0	2	5605
EV Charging	8760	2642	3050	55	438	290	10	15245
Auto LPG	319	44	105	55	51	0	0	574
Compressed Bio-Gas outlets	73	41	1	4	0	0	0	119
Total Retail outlets with at least one	10405	4068	4363	32	526	290	12	19696
Solarization at Retail outlets	25932	8113	14548	74	1000	0	0	49667



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PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)								
LPG category	2021-22	2022-23	February			April-February		
			2022-23	2023-24 (P)	Growth (%)	2022-23	2023-24 (P)	Growth (%)
1. PSU Sales :								
LPG-Packed Domestic	25,501.6	25,381.5	2,083.9	2,292.0	10.0%	23,200.3	23,862.3	2.9%
LPG-Packed Non-Domestic	2,238.8	2,606.0	253.0	234.7	-7.2%	2,413.5	2,544.1	5.4%
LPG-Bulk	390.9	408.9	46.1	60.4	31.1%	384.1	548.9	42.9%
Auto LPG	122.0	106.7	8.1	6.5	-20.3%	98.9	81.6	-17.5%
Sub-Total (PSU Sales)	28,253.3	28,503.1	2,391.2	2,593.6	8.5%	26,096.8	27,036.9	3.6%
2. Direct Private Imports*	0.1	0.1	0.03	0.01	-74.4%	0.08	0.06	-21.1%
Total (1+2)	28,253.4	28,503.2	2,391.3	2,593.6	8.5%	26,096.8	27,037.0	3.6%

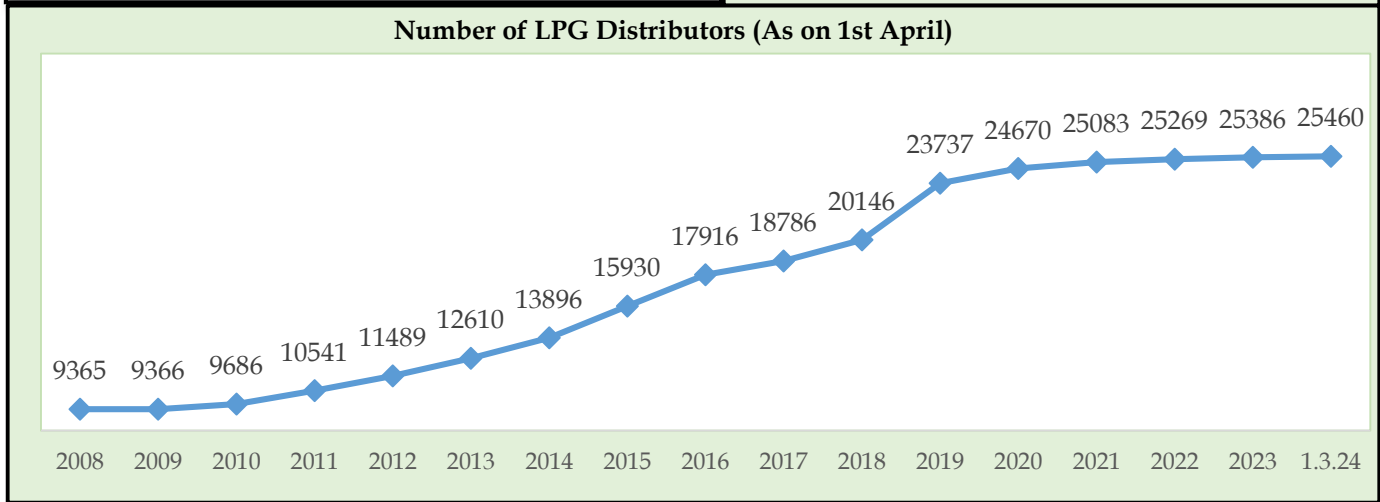
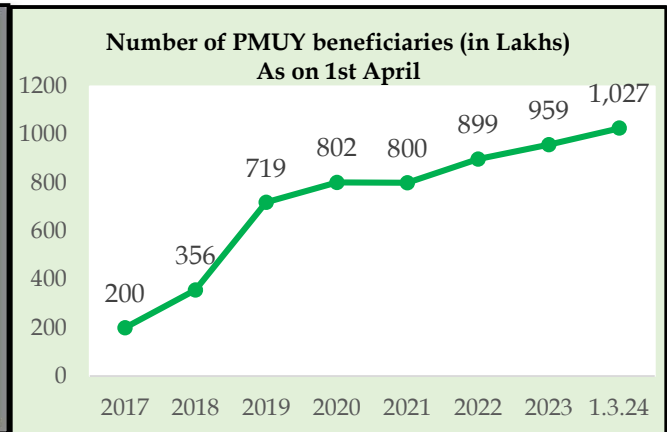
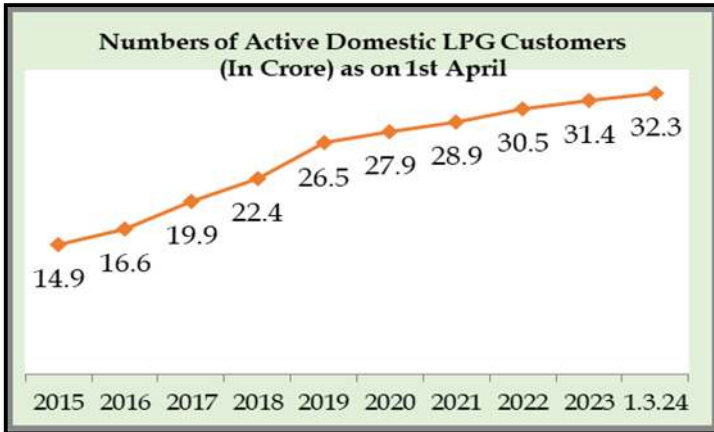
*Dec-23-Feb'24 DGCIS data is prorated

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	1.03.24 (P)
LPG Active Domestic Customers	(Lakh)				1486	1663	1988	2243	2654	2787	2895	3053	3140	3231
	Growth					11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	2.9%	3.0%
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	1026.6
	Growth							77.7%	101.9%	11.5%	-0.2%	12.2%	6.6%	7.1%
LPG Distributors	(No.)	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25386	25460
	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	468
	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%	-11.0%
Bottling Plants	(No.)	184	185	187	187	188	189	190	192	196	200	202	208	210
	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%	1.9%

Source: PSU OMCs (IOCL, BPCL and HPCL)

1. Growth rates as on 01.03.2024 are with respect to figs as on 01.03.2023. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

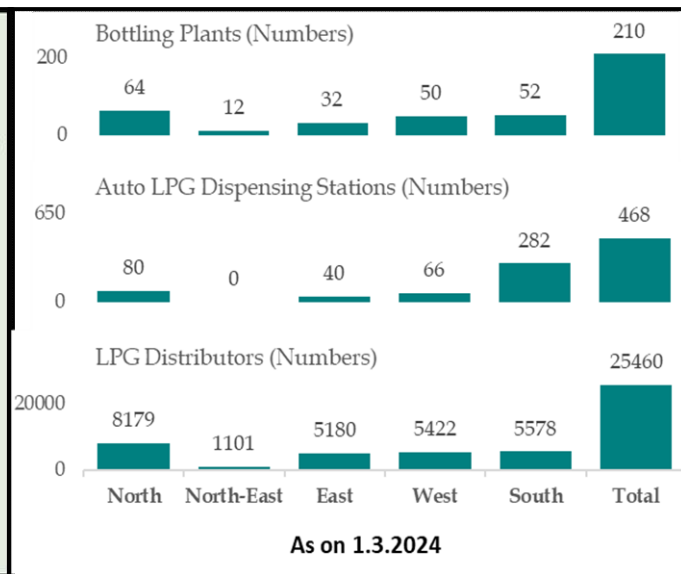
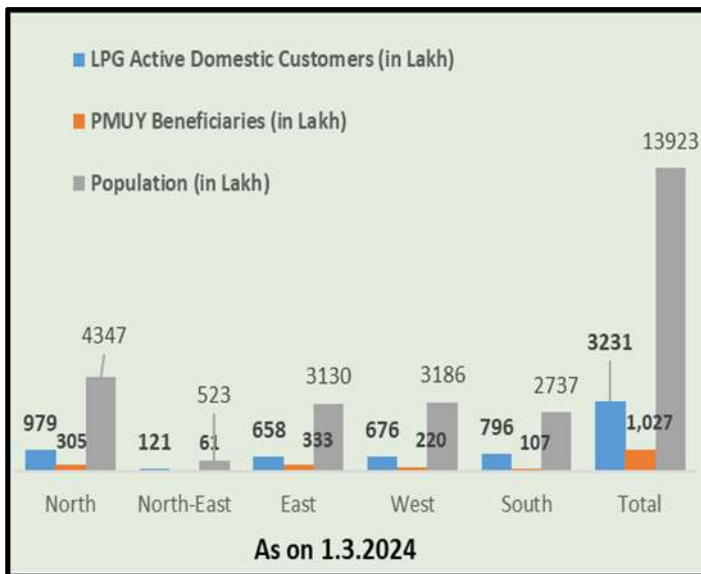
2. The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families 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.



17-Region-wise data on LPG marketing (As on 01.03.2024)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	979.4	121.5	658.1	676.5	795.9	3231.4
Population^ (in Lakh)	4347.5	523.0	3130.2	3185.9	2736.7	13923.3
PMUY Beneficiaries (in Lakh)	304.9	61.0	333.4	220.0	107.3	1026.6
LPG Distributors (Numbers)	8179	1101	5180	5422	5578	25460
Auto LPG Dispensing Stations (Numbers)	80	0	40	66	282	468
Bottling Plants* (Numbers)	64	12	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

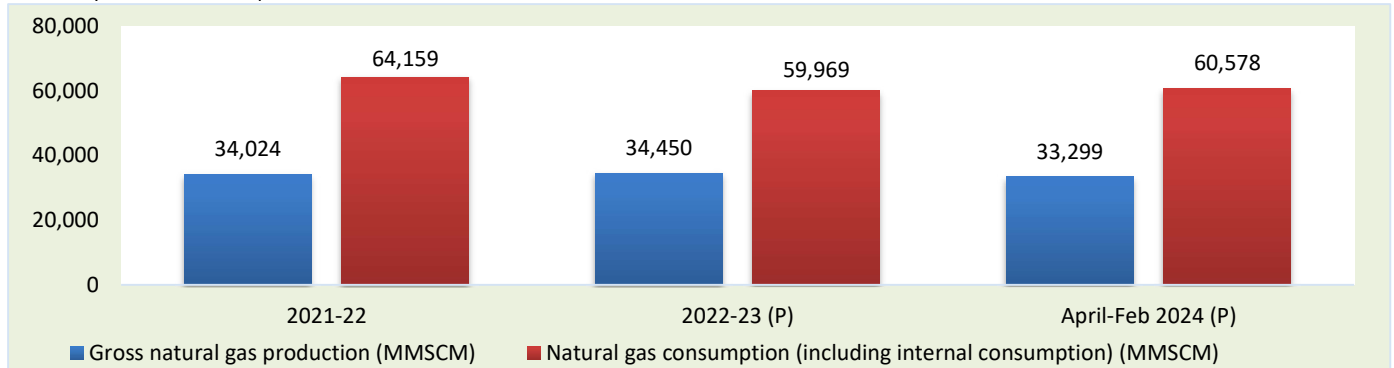
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2021-22 (P)	2022-23 (P)	February			April-February		
			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	2,651	3,143	2,947	31,494	34,851	33,299
- ONGC	20,629	19,969	1,512	1,634	1,510	18,273	18,828	17,699
- Oil India Limited (OIL)	2,893	3,041	233	251	246	2,780	2,887	2,813
- Private / Joint Ventures (JVs)	10,502	11,440	907	1,258	1,191	10,441	13,136	12,787
(b) Net production (excluding flare gas and loss)	33,131	33,664	2,595		2,887	30,775		32,646
(c) LNG import [#]	31,028	26,304	1,834		2,445	23,755		27,933
(d) Total consumption including internal consumption (b+c)	64,159	59,969	4,430		5,332	54,530		60,578
(e) Total consumption (in BCM)	64.2	60.0	4.4		5.3	54.5		60.6
(f) Import dependency based on consumption (%), {c/d*100}	48.4	43.9	41.4		45.9	43.6		46.110

February 2024 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)		10670	Sq. KM
Production of CBM gas	April-Feb 2024 (P)	593.65	MMSCM
Production of CBM gas	Feb 2024 (P)	52.73	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 01.03.2024) (Provisional)

Particulars	Units	IOCL	HPCL	BPCL	GAIL#	IGL	Total
No. of CBG plants commissioned and initiated sale of CBG	No. of plants	25	7	6	10	5	53
Start of CBG sale from retail outlet(s)	Nos.	76	37	47	1	3	164
Sale of CBG in 2022-23	Tons	5,822	77	6	5322		11,227
Sale of CBG in 2023-24 (up to February, 2023)	Tons	5834	234	49	9156*		15273
Sale of CBG in CGD network	GA Nos.				25		25

#Sale of CBG sourced under CBG-CGD synchronization by GAIL through its own marketing channels and other CGDs/OMCs. *GAIL data is upto Jan-24

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,GITL,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 01.03.2024	% Capacity utilisation (April-Jan 2024)
Dahei	Petronet LNG Ltd (PLL)	17.5 MMTPA	95.3
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	32.6
Dabhol	Konkan LNG Limited	*5 MMTPA	39.4
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.6
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	17.5
Mundra	GSPC LNG Limited	5 MMTPA	12.2
Dhamra	Adani Total Private Limited	5 MMTPA	24.6
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 31.01.2024(P)

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	174	2,67,651	465	37
Andhra Pradesh, Karnataka & Tamil Nadu	43	8,780	3	6
Assam	14	54,156	1,387	453
Bihar	122	1,25,322	113	8
Bihar & Jharkhand	6	7,723	4	0
Bihar & Uttar Pradesh	19	57	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	28	26,651	163	43
Chhattisgarh	14	22	0	0
Dadra & Nagar Haveli (UT)	6	12,032	57	62
Daman & Diu (UT)	5	5,177	62	47
Daman and Diu & Gujarat	15	5,035	23	0
Goa	12	13,084	30	39
Gujarat	996	32,23,718	23,285	5,788
Haryana	360	3,36,926	897	2,216
Haryana	22	21,819	136	59
Haryana & Himachal Pradesh	10	37	0	0
Haryana & Punjab	27	1,005	0	0
Himachal Pradesh	12	7,111	20	0
Jharkhand	91	1,26,571	24	4
Karnataka	355	4,22,168	566	354
Kerala	124	60,711	39	19
Kerala & Puducherry	11	793	0	0
Madhya Pradesh	272	2,25,750	450	503
Madhya Pradesh and Chhattisgarh	7	0	0	0
Madhya Pradesh and Rajasthan	34	677	0	0
Madhya Pradesh and Uttar Pradesh	16	0	0	3
Maharashtra	832	32,97,383	4,794	966
Maharashtra & Gujarat	64	1,87,645	9	29
Maharashtra and Madhya Pradesh	15	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)	481	15,43,737	3,901	1,906
Odisha	91	1,02,859	8	0
Puducherry	2	0	0	0
Puducherry & Tamil Nadu	8	311	0	0
Punjab	215	80,739	591	287
Punjab & Rajasthan	12	93	0	0
Rajasthan	278	2,60,477	174	1,678
Tamil Nadu	268	17,336	6	13
Telangana	171	1,98,986	104	110
Telangana and Karnataka	4	0	0	0
Tripura	18	61,219	508	62
Uttar Pradesh	873	15,43,884	2,561	3,167
Uttar Pradesh	28	5,785	11	7
Uttar Pradesh & Rajasthan	43	20,486	48	349
Uttar Pradesh and Uttrakhand	27	14,453	0	0
Uttarakhand	35	72,022	88	96
West Bengal	88	5,886	3	1
Grand Total	6,348	1,23,66,277	40,530	18,312

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
February 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		
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 Nov 2023	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		

Natural Gas prices are on GCV basis

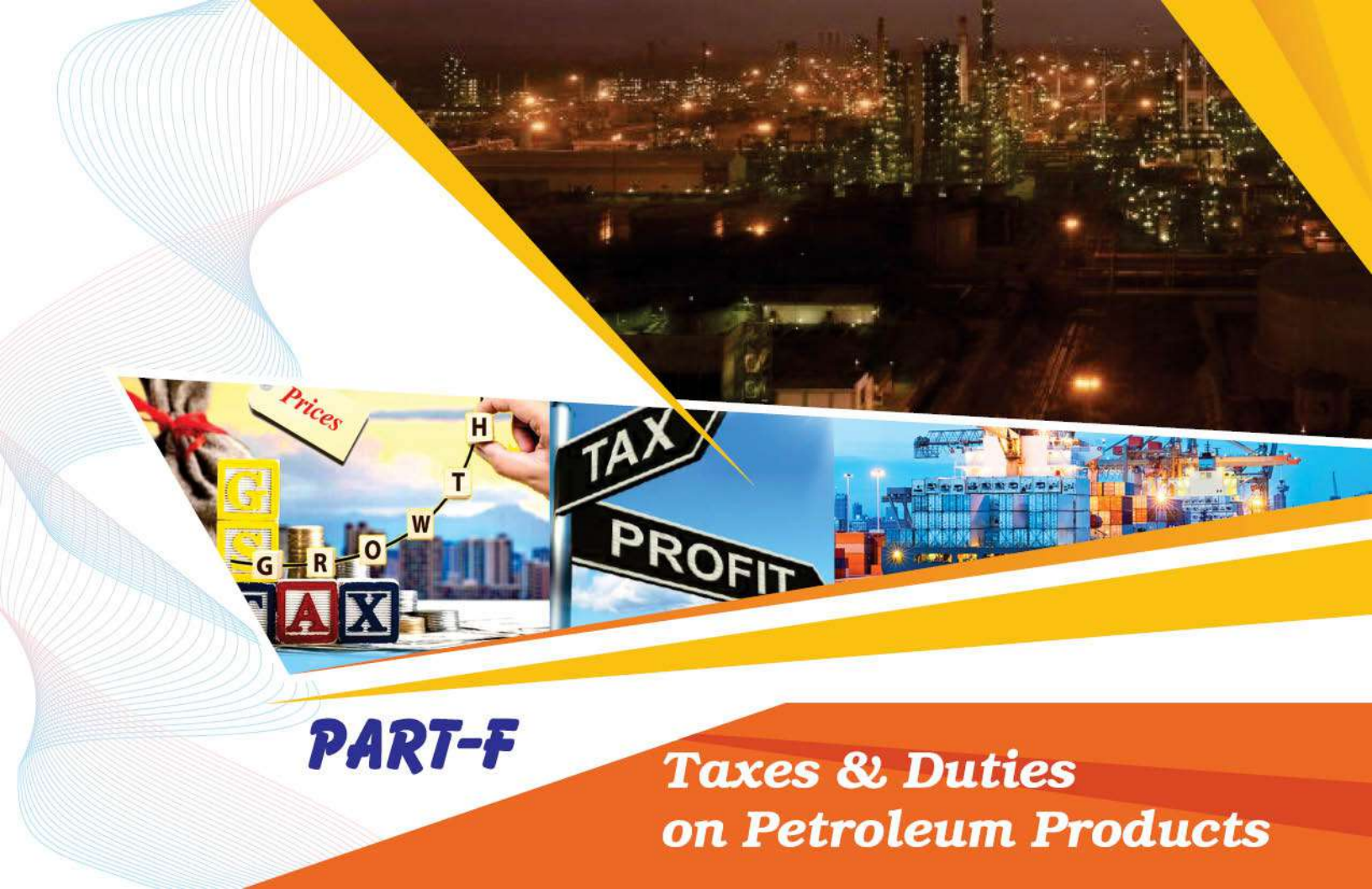
24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	74.09	48.59	IGL website (11.03.2024)
Mumbai	73.50	47.00	MGL website (11.03.2024)

Indian Natural Gas Spot Price for Physical Delivery

IGX Price Index Month	Avg. Price		Volume (MMSCM)	Source
	INR/MMBtu	\$/MMBtu		
Feb 2024	888	10.70	27.90	As per IGX website:

*Prices are weighted average prices | \$1=INR 82.96 | 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	Feb 2024	Particulars	Petrol	Diesel
Crude oil (Indian Basket)	79.18	93.15	81.62	Price charged to dealers (excluding Excise Duty and VAT)	55.62	56.38
Petrol	89.66	107.00	95.59	Excise Duty	19.90	15.80
Diesel	88.45	128.08	101.17	Dealers' Commission (Average)	3.81	2.62
Kerosene	85.31	120.55	98.25	VAT (incl VAT on dealers' commission)	15.39	12.82
LPG (\$/MT)	692.67	711.50	636.00	Retail Selling Price	94.72	87.62
FO (\$/MT)	445.25	452.66	417.21			
Naphtha (\$/MT)	698.25	666.53	606.35			
Exchange (Rs./\$)	74.51	80.39	82.96			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO	Subsidised Domestic LPG
Petrol	2.50%	Rs 19.90/Ltr	**	Price before taxes and dealers'/distributors' commission	59.78	691.68
Diesel	2.50%	Rs 15.80/Ltr	**	Dealers'/distributors' commission	2.65	73.08
PDS SKO	5.00%	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	3.12	38.24
Non-PDS SKO	5.00%		18.00%	Retail Selling Price	65.55	803.00
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.4600/ 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 01.03.2024 SAED on crude oil.						

*Petrol and Diesel at Delhi as per IOCL are as on 15th Mar 2024. PDS SKO at Mumbai as on 1st Mar 2024 and Subsidised Domestic LPG at Delhi as on 9th Mar 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	-	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 Q3)	
	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	2020-21	2021-22	2022-23 (P)	2023-24 (P)	
				Target (Annual)	Apr-Feb'24 (P)
ONGC Ltd	26,441	26,621	29,209	30,125	30,186
ONGC Videsh Ltd (OVL)	5,351	4,836	2,723	3,229	2,921
Oil India Ltd (OIL)	12,802	4,239	5,057	4,896	4,878
GAIL (India) Ltd	5,560	6,970	8,313	7,750	9,022
Indian Oil Corp. Ltd. (IOCL)	27,195	29,604	35,205	30,395	35,119
Bharat Petroleum Corp. Ltd (BPCL)	10,697	11,449	11,527	10,000	9,448
Hindustan Petroleum Corp. Ltd (HPCL)	14,036	16,205	13,847	10,210	11,812
Mangalore Refinery & Petrochem Ltd (MRPL)	2,218	604	641	820	1,435
Chennai Petroleum Corp. Ltd (CPCL)	592	575	609	548	530
Numaligarh Refinery Ltd (NRL)	981	3,403	6,615	8,290	7,593
Balmer Lawrie Co. Ltd (BL)	42	23	46	40	39
Engineers India Ltd (EIL)	730	67	60	98	106
Total	1,06,642	1,04,596	1,13,853	1,06,401	1,13,087

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)	20130.81
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	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



Analysis • Knowledge • Information

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