

PPAC's Snapshot of India's Oil & Gas data

Abridged Ready Reckoner

January 2022

Petroleum Planning & Analysis Cell
(Ministry of Petroleum & Natural Gas)



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As on 17.02.2022

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 PPAC's Snapshot of India's Oil & Gas data (Abridged Ready Reckoner) provides a comprehensive compilation of the latest 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

- The consumption of petroleum products during April-January 2022 with a volume of 165.719 MMT reported a growth of 4.23% compared to the volume of 158.997 MMT during the same period of the previous year. Except SKO, petcoke & others, all other petroleum products reported a growth in consumption during April-January 2022 compared to the same period of the previous year. The consumption of petroleum products during January 2022 recorded a de-growth of 0.16% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during January 2022 was lower by 2.4 % than that of January 2021 as compared to a de-growth of 1.8 % during December 2021. OIL registered a growth of 5.3 % and ONGC registered a de-growth of 3.1 % during January 2022 as compared to January 2021. PSC registered de-growth of 3.5 % during January 2022 as compared to January 2021. De-growth of 2.6 % was registered in the total crude oil and condensate production during April - January 2022 over the corresponding period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of January 2022 was 5175 MMSCM which was 0.1% higher than the corresponding month of the previous year. The cumulative consumption of 54589 MMSCM for the current year till January 2022 was higher by 7.9% compared with the corresponding period of the previous year.
- Crude oil processed during January 2022 was 21.7 MMT, which was 0.5 % lower than January 2021 as compared to a growth of 2.2 % during December 2021. Growth of 9.2 % was registered in the total crude oil processing during April- January 2022 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 3.7 % during January 2022 over January 2021 as compared to a growth of 5.9 % during December 2021. Growth of 8.9 % was registered in the total POL production during April- January 2022 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 9.26% during January 2022 and cumulative ethanol blending during December 2021- January 2022 was 8.68%.

<ul style="list-style-type: none"> Gross production of natural gas for the month of January 2022 was 2861 MMSCM which was higher by 12.2% compared to the corresponding month of the previous year. The cumulative gross production of natural gas of 28535 MMSCM for the current financial year till January 2022 was higher by 20.5% compared with the corresponding period of the previous year.
<ul style="list-style-type: none"> LNG import for the month of January 2022 (P) was 2408 MMSCM which was 10.6 % lower than the corresponding month of the previous year. The cumulative import of 26785 MMSCM for the current year till January 2022 was lower by 3.2% compared with the corresponding period of the previous year.
<ul style="list-style-type: none"> Crude oil imports decreased by 1.7% and increased by 7.9% during January 2022 and April-January 2022 respectively as compared to the corresponding period of the previous year.
<ul style="list-style-type: none"> POL products imports increased by 12.4% and decreased by 6.4% during January 2022 and April-January 2022 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-January 2022 was due to decrease in imports of petcoke, high speed diesel (HSD), motor sprit (MS) and superior kerosene oil (SKO).
<ul style="list-style-type: none"> Exports of POL products increased by 14.4% and 9.8% during January 2022 and April-January 2022 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-January 2022 (P) was due to increase in increase in exports of all products except LOBS/Lubes oil, Bitumen and petcoke/CBFS.
<ul style="list-style-type: none"> The price of Brent Crude averaged \$87.22/bbl during January 2022 as against \$74.10/bbl during December 2021 and \$54.84/bbl during January 2021. The Indian basket crude price averaged \$84.67/bbl during January 2022 as against \$73.30/bbl during December 2021 and \$54.79 /bbl during January 2021.

Part A: Economic Indicators

1. Selected indicators of the Indian economy

Economic indicators		Unit/ Base	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Population (Census 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	8.3	6.8 3rd RE	6.5 2nd RE	4.0 1st RE	-7.3 PE	13.7 E (H1, 2021-22)
3	Agricultural Production (Food grains)	MMT	275.1	285.0	285.2	297.5	310.7	316.1 2nd AE
		Growth %	9.4	3.6	0.1	4.3	4.5	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.5	3.5	3.4	4.6	9.5 RE	6.8 BE

Economic indicators		Unit/ Base	2019-20	2020-21	January		April-January	
				(P)	2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	-0.8	-8.4	2.2*	0.4* QE	-13.3#	15.2#
6	Imports [^]	\$ Billion	474.7	394.4	42.0	51.9	304.8	495.8
7	Exports [^]	\$ Billion	313.4	291.8	27.5	34.5	228.9	335.9
8	Trade Balance	\$ Billion	-161.3	-102.6	-14.5	-17.4	-75.9	-159.9
9	Foreign Exchange Reserves [@]	\$ Billion	475.6	579.3	590.2	629.8	-	-

IIP is for the month of *December and #April-December; @2019-20-as on March 27, 2020, 2020-21-as on March 26, 2021, January 2021- as on January 29, 2021 and January 2022-as on January 28, 2022; ^Imports & Exports are for Merchandise; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

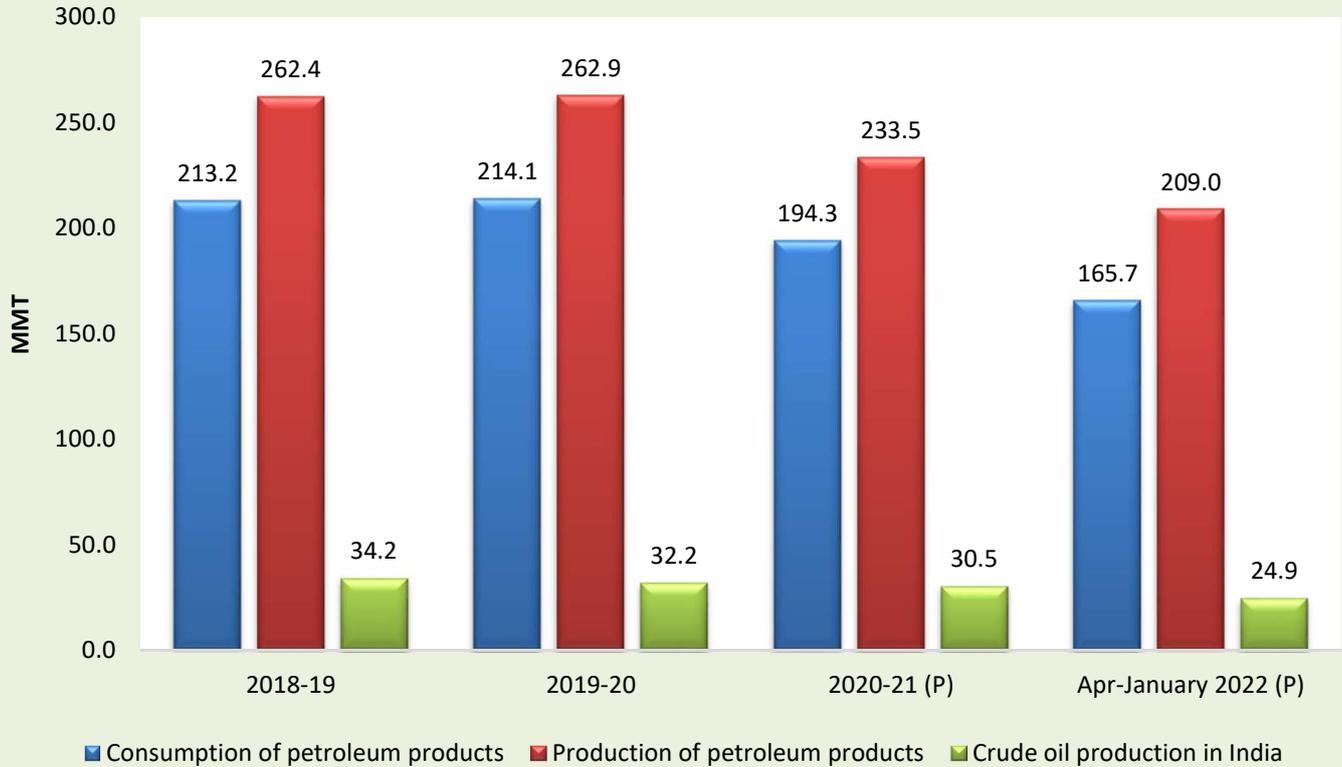
Source: Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

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

Details		Unit/ Base	2019-20	2020-21 (P)	January		April-January	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Crude oil production in India [#]	MMT	32.2	30.5	2.6	2.5	25.6	24.9
2	Consumption of petroleum products*	MMT	214.1	194.3	17.6	17.6	159.0	165.7
3	Production of petroleum products	MMT	262.9	233.5	22.2	23.0	191.9	209.0
4	Gross natural gas production	MMSCM	31,184	28,672	2,551	2,861	23,680	28,535
5	Natural gas consumption	MMSCM	64,144	60,815	5,169	5,175	50,614	54,589
6	Imports & exports:							
	Crude oil imports	MMT	227.0	196.5	19.6	19.3	163.0	175.9
		\$ Billion	101.4	62.2	7.7	11.6	47.2	94.3
	Petroleum products (POL) imports*	MMT	43.8	43.2	3.0	3.4	35.9	33.6
		\$ Billion	17.7	14.8	1.5	2.1	11.1	19.9
	Gross petroleum imports (Crude + POL)	MMT	270.7	239.7	22.6	22.7	198.8	209.5
		\$ Billion	119.1	77.0	9.1	13.6	58.3	114.1
	Petroleum products (POL) export	MMT	65.7	56.8	4.4	5.1	46.5	51.1
		\$ Billion	35.8	21.4	2.1	3.8	15.8	33.4
	LNG imports*	MMSCM	33,887	33,031	2,692	2,408	27,679	26,785
		\$ Billion	9.5	7.9	0.8	0.9	6.2	9.9
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	21.7	26.2	19.1	23.0
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	7.5	11.1	6.9	9.9
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	85.7	85.3	83.6	85.1

#Includes condensate; *Private direct imports are prorated for the period Dec'21 to Jan'22 for POL & Jul'20 to Jan'22 for Natural Gas;

Crude Oil & Petroleum Products (MMT)



Part B: Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2019-20	2020-21	January			April-January		
			2020-21	2021-22 Target*	2021-22 (P)	2020-21	2021-22 Target*	2021-22 (P)
ONGC	19.2	19.1	1.6	1.7	1.6	16.0	17.0	15.5
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.3	2.5	2.6	2.5
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.7	0.6	5.9	6.5	5.9
Total Crude Oil	30.5	29.1	2.5	2.7	2.4	24.4	26.1	23.8
ONGC condensate	1.4	1.1	0.09	0.0	0.1	0.9	0.0	0.8
PSC condensate	0.3	0.3	0.03	0.0	0.02	0.22	0.0	0.26
Total condensate	1.6	1.4	0.12	0.0	0.1	1.2	0.0	1.0
Total (Crude + Condensate) (MMT)	32.2	30.5	2.6	2.7	2.5	25.6	26.1	24.9
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.61	0.63	0.59	0.61	0.63	0.60

*Provisional targets inclusive of condensate.

4. Domestic oil & gas production vis-à-vis overseas production

Details	2019-20	2020-21	January		April-January	
			2020-21	2021-22 (P)	2020-21	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	5.1	5.4	49.2	53.4
Overseas production (MMTOE)	24.5	21.9	1.9	1.8	18.4	18.4
Overseas production as percentage of domestic production	38.7%	37.0%	36.2%	34.2%	37.3%	34.4%

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

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

Details		2019-20	2020-21	January		April-January	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	High Sulphur crude	192.4	161.4	15.8	17.1	133.1	151.9
2	Low Sulphur crude	62.0	60.3	6.0	4.6	49.0	47.1
Total crude processed (MMT)		254.4	221.8	21.8	21.7	182.2	198.9
Total crude processed (Million Bbl/Day)		5.09	4.45	5.16	5.13	4.86	5.30
Percentage share of HS crude in total crude oil processing		75.6%	72.8%	72.5%	78.7%	73.1%	76.3%

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2019-20	227.0	1,01,376	7,17,001
2020-21	196.5	62,248	4,59,779
April-January 2021-22(P)	175.9	94,267	7,01,078

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

Particulars		2019-20	2020-21	January		April-January	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	Indigenous crude oil processing	29.3	28.0	2.3	2.4	23.5	22.7
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.2	2.3	21.9	21.2
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.4	0.3	4.2	3.4
4	Total production from indigenous crude & condensate (2 + 3)	32.1	30.3	2.5	2.6	26.1	24.6
5	Total domestic consumption	214.1	194.3	17.6	17.6	159.0	165.7
% Self-sufficiency (4 / 5)		15.0%	15.6%	14.3%	14.7%	16.4%	14.9%

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)

Sl. no.	Refinery	Installed capacity (01.01.2022) MMTPA	Crude oil processing (MMT)							
			2019-20	2020-21	January			April-January		
					2020-21	2021-22 (Target)	2021-22 (P)	2020-21	2021-22 (Target)	2021-22 (P)
1	Barauni (1964)	6.0	6.5	5.5	0.6	0.6	0.6	4.4	4.5	4.5
2	Koyali (1965)	13.7	13.1	11.6	1.2	1.3	1.3	9.7	11.0	10.9
3	Haldia (1975)	8.0	6.5	6.8	0.7	0.7	0.3	5.4	6.4	5.9
4	Mathura (1982)	8.0	8.9	8.9	0.9	0.9	0.7	7.3	7.6	7.5
5	Panipat (1998)	15.0	15.0	13.2	1.3	1.4	1.2	10.9	12.6	12.4
6	Guwahati (1962)	1.0	0.9	0.8	0.09	0.1	0.1	0.68	0.6	0.6
7	Digboi (1901)	0.65	0.7	0.6	0.06	0.06	0.06	0.6	0.6	0.6
8	Bongaigaon(1979)	2.70	2.0	2.5	0.2	0.2	0.2	2.0	2.2	2.2
9	Paradip (2016)	15.0	15.8	12.5	1.2	1.5	1.3	10.0	10.8	10.6
	IOCL-TOTAL	70.1	69.4	62.4	6.3	6.8	5.8	51.0	56.2	55.2
10	Manali (1969)	10.5	10.2	8.2	0.9	1.0	0.9	6.5	7.1	7.0
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	10.2	8.2	0.9	1.0	0.9	6.5	7.1	7.0
12	Mumbai (1955)	12.0	15.0	12.9	1.3	1.3	1.3	10.3	12.0	11.9
13	Kochi (1966)	15.5	16.5	13.3	1.6	1.4	1.5	10.5	12.4	12.5
14	Bina (2011)	7.8	7.9	6.2	0.7	0.6	0.7	5.0	6.0	6.1
	BPCL-TOTAL	35.3	39.4	32.4	3.6	3.3	3.5	25.8	30.3	30.5
15	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.3	2.2	2.4	2.2

Sl. no.	Refinery	Installed capacity (1.01.2022) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21	January			Apr-January		
					2020-21	2021-22 (Target)	2021-22 (P)	2020-21	2021-22 (Target)	2021-22 (P)
16	Tatipaka (2001)	0.066	0.087	0.081	0.008	0.006	0.007	0.066	0.052	0.063
17	MRPL-Mangalore (1996)	15.0	14.0	11.5	1.4	1.4	1.4	8.8	11.9	12.0
	ONGC-TOTAL	15.1	14.0	11.6	1.4	1.4	1.4	8.9	11.9	12.0
18	Mumbai (1954)	7.5	8.1	7.4	0.6	0.7	0.9	6.0	5.9	4.1
19	Visakh (1957)	8.3	9.1	9.1	0.8	0.8	0.8	7.4	8.2	6.8
20	HMEL-Bathinda (2012)	11.3	12.2	10.1	0.8	0.9	1.1	9.0	9.2	10.9
	HPCL- TOTAL	27.1	29.4	26.5	2.2	2.5	2.7	22.5	23.3	21.8
21	RIL-Jamnagar (DTA) (1999)	33.0	33.0	34.1	2.9	2.9	3.0	28.6	28.6	28.9
22	RIL-Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.6	2.6	2.2	22.6	22.6	24.2
23	NEL-Vadinar (2006)	20.0	20.6	17.1	1.5	1.5	1.7	14.0	14.0	16.9
All India (MMT)		249.2	254.4	221.8	21.8	22.4	21.7	182.2	196.5	198.9
All India (Million Bbl/Day)		5.02	5.09	4.45	5.16	5.29	5.13	4.36	4.71	4.77

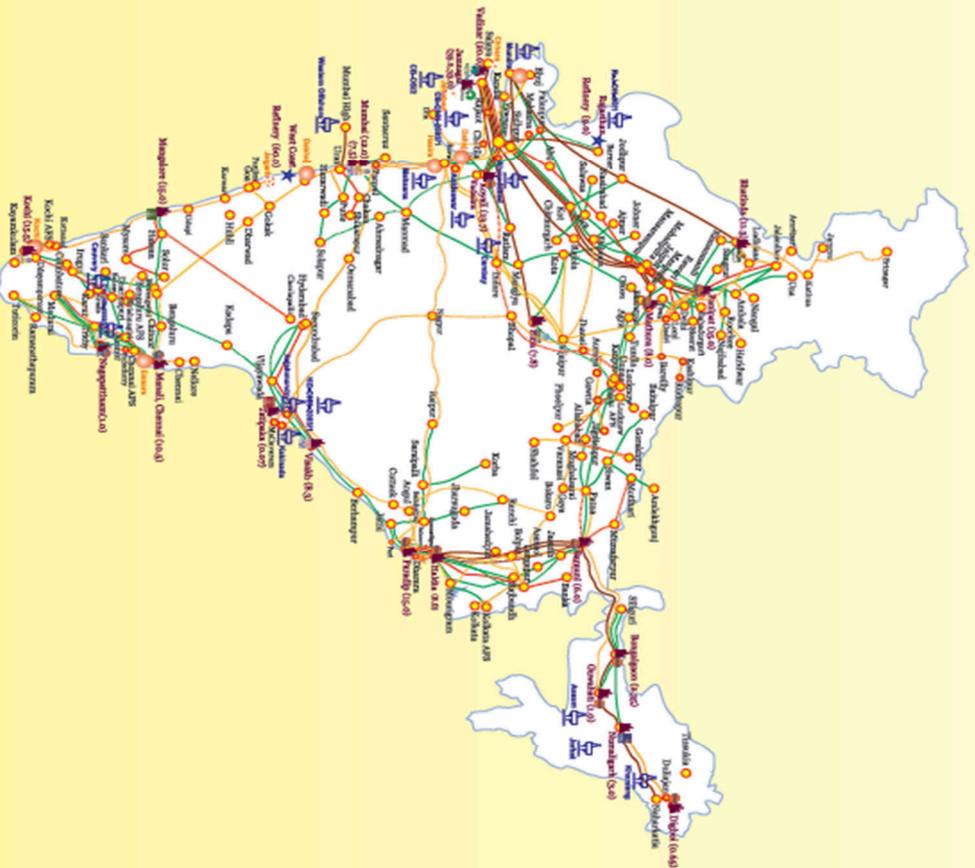
Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network (as on 01.02.2022)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,283	1,193	688	1,017	5,301	937			10,419
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8			147.9
Products	Length (KM)		654			9,400	2,596	3,775	2,395	18,820
	Cap (MMTPA)		1.7			47.5	23.0	34.1	9.4	115.7

*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



Delhi, Dabul, Hazira, Kochi, Mundra, Emrore
 (Booming terminals) Durgam, Jethwal, Jhijhyn, Chivem

LEGENDS

Pipelines Network

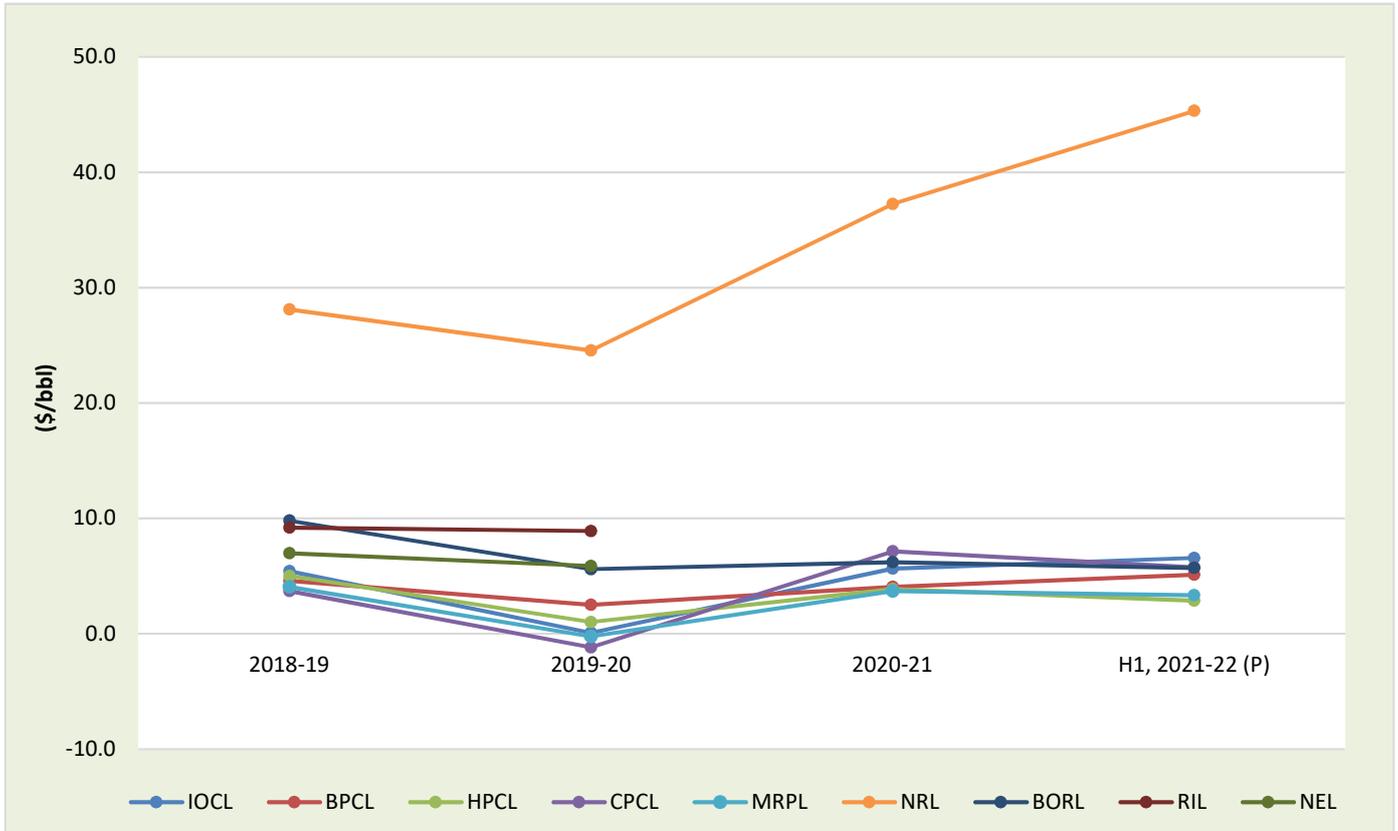
- Crude Oil Pipeline
- Outgoing Crude Oil Pipeline
- Product Pipeline
- Outgoing Product Pipeline
- LNG Pipeline
- Outgoing LNG Pipeline
- Gas Pipeline
- Outgoing Gas Pipeline

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

Company	2018-19	2019-20	2020-21	H1, 2021-22 (P)
IOCL	5.41	0.08	5.64	6.57
BPCL	4.58	2.50	4.06	5.11
HPCL	5.01	1.02	3.86	2.87
CPCL	3.70	-1.18	7.14	5.75
MRPL	4.06	-0.23	3.71	3.33
NRL	28.11	24.55	37.23	45.31
BORL	9.80	5.60	6.20	5.70
RIL	9.20	8.90	*	*
NEL	6.97	5.88	*	*

*Not available

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



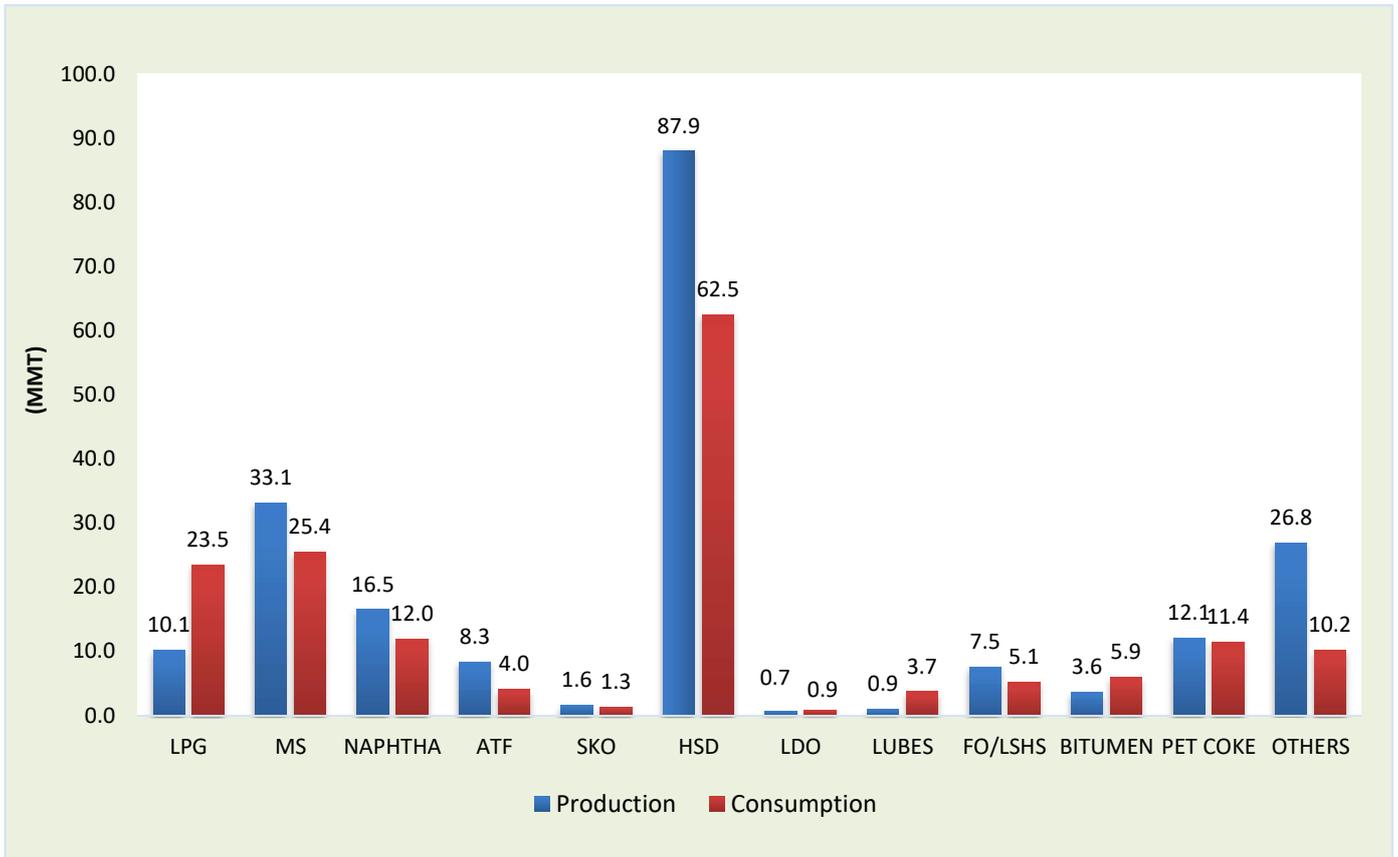
Part C: Consumption

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

Products	2019-20		2020-21		January 2021		January 2022 (P)		Apr-Jan 2021		Apr-Jan 2022 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	26.3	12.1	27.6	1.1	2.5	1.1	2.6	10.2	23.0	10.1	23.5
MS	38.6	30.0	35.8	28.0	3.4	2.6	3.7	2.5	29.2	22.8	33.1	25.4
NAPHTHA	20.6	14.3	19.4	14.1	1.8	1.2	1.7	1.3	16.0	11.6	16.5	12.0
ATF	15.2	8.0	7.1	3.7	0.8	0.4	1.0	0.5	5.4	2.8	8.3	4.0
SKO	3.2	2.4	2.4	1.8	0.2	0.1	0.2	0.1	2.0	1.5	1.6	1.3
HSD	111.1	82.6	100.4	72.7	9.8	6.8	9.5	6.4	82.5	58.9	87.9	62.5
LDO	0.6	0.6	0.7	0.9	0.08	0.09	0.07	0.09	0.6	0.7	0.7	0.9
LUBES	0.9	3.8	1.1	4.1	0.1	0.4	0.1	0.4	0.8	3.3	0.9	3.7
FO/LSHS	9.3	6.3	7.4	5.6	0.7	0.5	0.8	0.5	6.0	4.6	7.5	5.1
BITUMEN	4.9	6.7	4.9	7.5	0.5	0.8	0.5	0.8	3.7	5.7	3.6	5.9
PET COKE	14.6	21.7	12.0	15.6	1.1	1.0	1.4	1.4	9.9	13.5	12.1	11.4
OTHERS	31.0	11.4	30.2	12.8	2.5	1.1	2.9	1.1	25.5	10.6	26.8	10.2
ALL INDIA	262.9	214.1	233.5	194.3	22.2	17.6	23.0	17.6	191.9	159.0	209.0	165.7
Growth (%)	0.2%	0.4%	-11.2%	-9.3%	-2.5%	-5.9%	3.7%	-0.2%	-12.1%	-11.7%	8.9%	4.2%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-January 2022 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2018-19		2019-20		2020-21		2021-22 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	44,32,994	41,52,112	31,21,328	27,93,217	23,15,008	20,38,790	17,83,344	14,00,726

* For 2022-21 allocation is for Apr-Mar 2022 and upliftment is for Apr-Jan 2022.

13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2018-19	2019-20	2020-21	2021-22 (P)	
				Jan-22	Dec'21-Jan'22
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	32.0	60.0
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	28.9	58.0
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	9.3%	8.7%

*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 01.02.2022) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) [§]	117	81	81	18	3		6	306
Aviation Fuel Stations (Nos.) [@]	125	61	47	30			1	264
Retail Outlets (total) (Nos.) [^]	33,789	19,839	19,764	1,454	6,510	313	30	81,699
out of which Rural ROs	10,721	4,715	4,880	130	2,103	76	3	22,628
SKO/LDO agencies (Nos.)	3,871	927	1,638					6,436
LPG Distributors (total) (Nos.) (PSUs only)	12,791	6,196	6,222					25,209
LPG Bottling plants (Nos.) (PSUs only) [#]	92	54	53				3	202
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	10,358	4,950	6,062				203	21,573
LPG active domestic consumers (Nos. crore) (PSUs only)	14.2	7.9	8.4					30.4

[§](Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL); [^](Others=30 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.

Part D: LPG

15. LPG consumption (Thousand Metric Tonne)								
LPG category	2019-20	2020-21	January			April-January		
			2020-21	2021-22 (P)	Gr (%)	2020-21	2021-22 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	23,076.0	25,128.1	2,199.6	2,312.1	5.1	21,129.3	21,151.6	0.1
LPG-Packed Non-Domestic	2,614.4	1,886.0	227.9	194.4	-14.7	1,481.8	1,818.5	22.7
LPG-Bulk	263.5	361.9	40.9	46.2	13.1	284.1	316.9	11.5
Auto LPG	171.9	118.4	13.2	9.4	-28.9	94.0	100.6	7.0
Sub-Total (PSU Sales)	26,125.7	27,494.3	2,481.5	2,562.2	3.3	22,989.2	23,387.6	1.7
2. Direct Private Imports*	204.0	64.2	8.6	6.8	-21.1	50.9	68.5	34.6
Total (1+2)	26,329.8	27,558.4	2,490.1	2,568.9	3.2	23,040.1	23,456.1	1.8

*Dec-Jan 2022 DGCIIS data are prorated

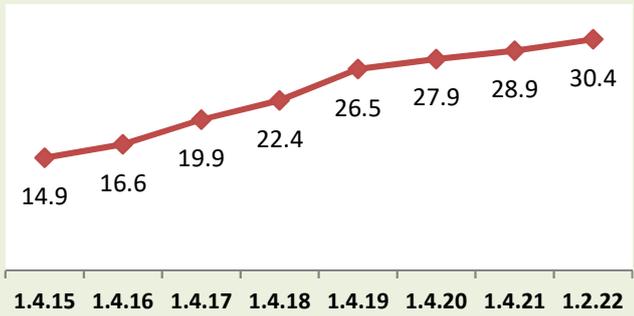
16. LPG marketing at a glance														
Particulars (As on 1st of April)	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1.02.22 (P)
LPG Active Domestic Customers	(Lakh)						1486	1663	1988	2243	2654	2787	2895	3045
	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.6%
LPG Coverage (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	356	719	802	800.4	899.5
	Growth									77.7%	101.9%	11.5%	-0.2%	12.2%
LPG Distributors	(No.)	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25209
	Growth	3.4%	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	1.0%
Auto LPG Dispensing Stations	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	634
	Growth	19.9%	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-3.5%
Bottling Plants	(No.)	182	183	184	185	187	187	188	189	190	192	196	200	202
	Growth	0.0%	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.5%

Source: PSU OMCs (IOCL, BPCL and HPCL)

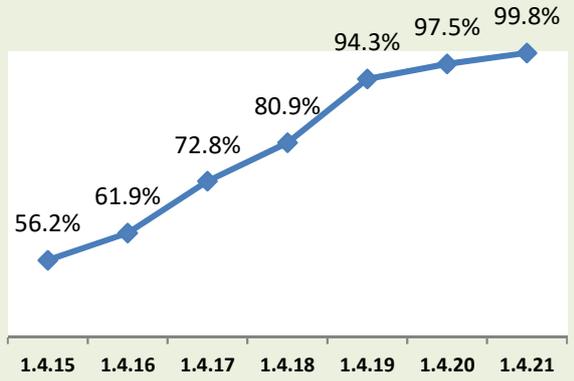
1. Growth rates as on 01.02.2022 are w.r.t. figs as on 01.02.2021. Growth rates as on 1 April of any year are w.r.t. figs as on 1 April of previous year.

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.

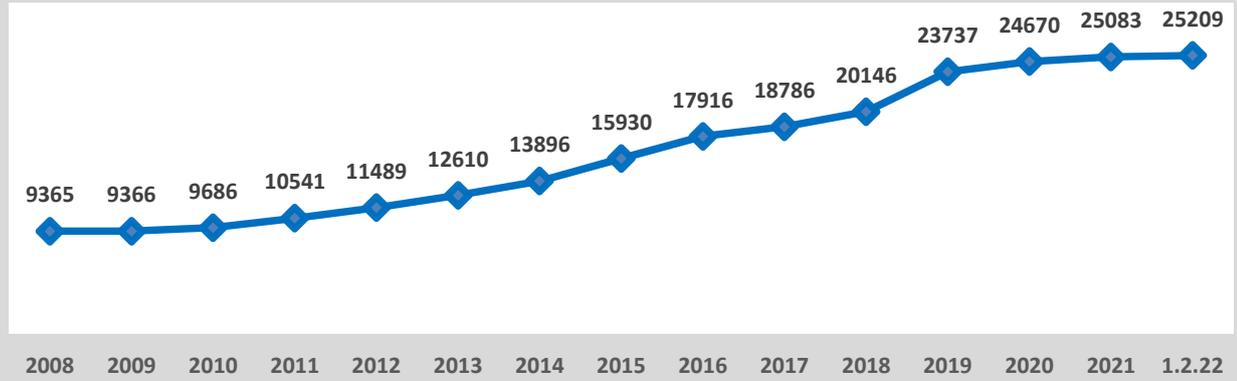
Number of active LPG domestic customers (In Crore)



LPG coverage



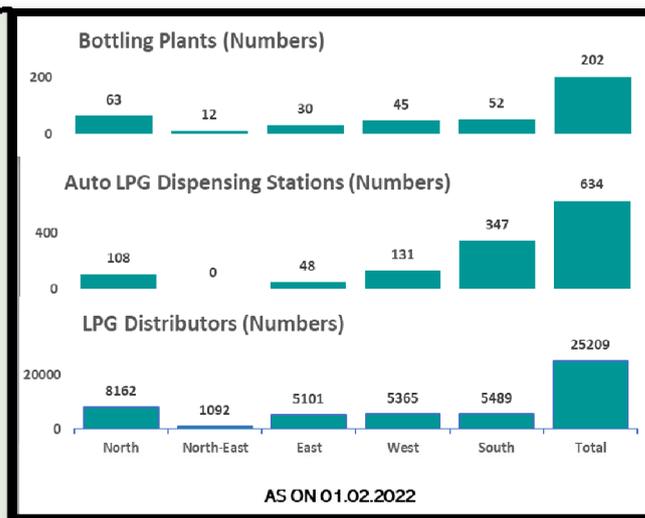
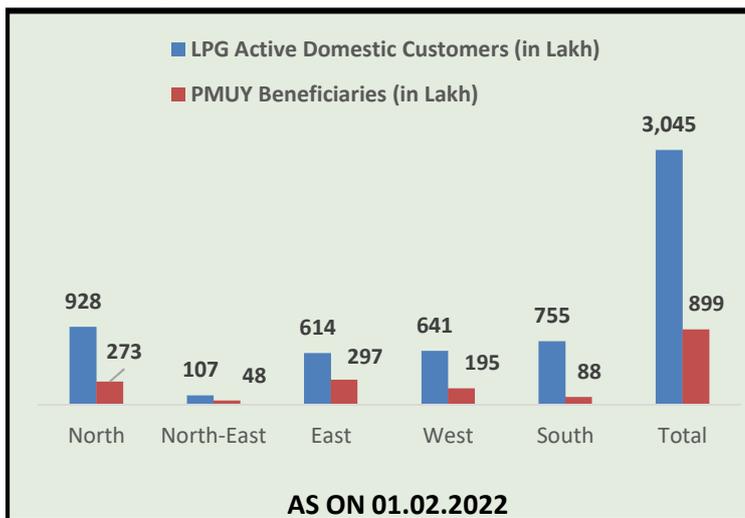
Number of LPG distributors



17-Region-wise data on LPG marketing (As on 01.02.2022)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	928.1	107.3	613.6	640.8	754.8	3044.5
PMUY Beneficiaries (in Lakh)	272.5	47.8	296.9	194.5	87.7	899.5
LPG Distributors (Numbers)	8162	1092	5101	5365	5489	25209
Auto LPG Dispensing Stations (Numbers)	108	0	48	131	347	634
Bottling Plants* (Numbers)	63	12	30	45	52	202

*Includes Numaligarh BP, Duliajan BP and CPCL BP.



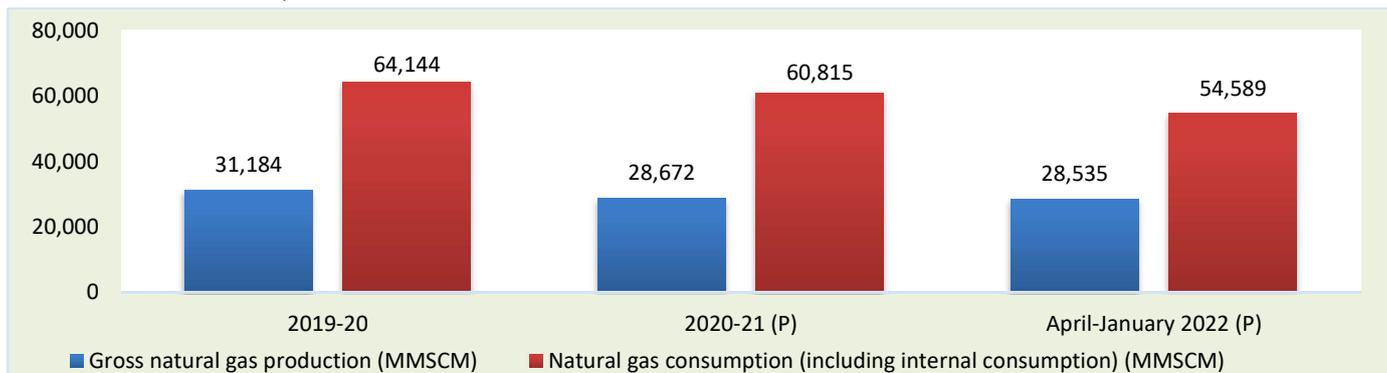
Part E: Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2019-20	2020-21 (P)	January			April-January		
			2020-21 (P)	2021-22 (Target)	2021-22 (P)	2020-21 (P)	2021-22 (Target)	2021-22 (P)
(a) Gross production	31,184	28,672	2,551	3,425	2,861	23,680	31,562	28,535
- ONGC	23,746	21,872	1,866	2,000	1,749	18,410	19,489	17,291
- Oil India Limited (OIL)	2,668	2,480	212	250	233	2,082	2,473	2,423
- Private / Joint Ventures (JVs)	4,770	4,321	473	1,175	879	3,188	9,601	8,821
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,477		2,767	22,935		27,803
(c) LNG import [#]	33,887	33,031	2,692		2,408	27,679		26,785
(d) Total consumption including internal consumption (b+c)	64,144	60,815	5,169		5,175	50,614		54,589
(e) Total consumption (in BCM)	64.1	60.8	5.2		5.2	50.6		54.6
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.3	52.1		46.5	54.7		49.1

#Jul 2020-Jan 2022 DGCI 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	21659	Sq. KM
Area awarded	16613	Sq. KM
Blocks awarded (ST CBM Block awarded twice in CBM Round II and Round IV)	32	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)	10669.55	Sq. KM
Production of CBM gas	April-January 2022 (P)	575.53
Production of CBM gas	January 2022 (P)	57.79
		MMSCM
		MMSCM

20. Common Carrier Natural Gas pipeline network as on 30.09.2021

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	8,918	2,700	1,459	143	107	304	73	42	24				13,770
	Capacity	171.5	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				337.3
Partially commissioned#	Length	4,543			166						441	365		5,515
	Capacity				-						-	-		-
Total operational length		13,461	2,700	1,459	309	107	304	73	42	24	441	365	0	19,285
Under construction	Length	5,973	100		1,265						1,891	1,446	3,550	14,225
	Capacity	23.2	3.0		-						3.0	-	153.5	-
Total length		19,434	2,800	1,459	1,574	107	304	73	42	24	2,332	1,811	3,550	33,510

Source: PNGRB; Length in KMs ; Authorized Capacity in MMSCMD; *Others-APGDC, HEPL, IGGL, IMC, Consortium of H-Energy

21. Existing LNG terminals

Location	Promoters	Capacity as on 01.02.2022	% Capacity utilisation (Apr-Dec 2021)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	90.0
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	57.2
Dabhol	Konkan LNG Limited	*5 MMTPA	71.8
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	21.4
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	14.0
Mundra	GSPC LNG Limited	5 MMTPA	19.9
Total Capacity		42.7 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 31.12.2021(P)

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	105	222,211	337	24
Andhra Pradesh, Karnataka & Tamil Nadu	2	0	0	1
Assam	1	39,822	1,251	413
Bihar	29	59,176	17	1
Bihar & Jharkhand	0	3,814	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	21	22,031	69	13
Dadra & Nagar Haveli (UT)	7	7,779	49	47
Daman & Diu (UT)	4	4,888	32	34
Daman and Diu & Gujarat	12	355	1	0
Goa	10	9,714	8	20
Gujarat	877	2,594,767	20,906	5,664
Haryana	212	223,698	656	1,170
Haryana & Himachal Pradesh	8	0	0	0
Haryana & Punjab	11	0	0	0
Himachal Pradesh	4	1,719	0	0
Jharkhand	38	63,995	0	0
Karnataka	107	315,141	476	242
Kerala	49	16,993	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	128	121,236	211	336
Madhya Pradesh and Rajasthan	17	0	0	0
Madhya Pradesh and Uttar Pradesh	9	0	0	0
Maharashtra	504	2,212,853	4,608	480
Maharashtra & Gujarat	43	81,501	0	0
National Capital Territory of Delhi (UT)	441	1,175,458	2,984	1,670
Odisha	28	45,564	0	0
Puducherry & Tamil Nadu	4	0	0	0
Punjab	132	19,248	158	95
Rajasthan	136	98,127	20	204
Tamil Nadu	81	0	0	0
Telangana	111	155,141	42	68
Tripura	18	52,245	501	62
Uttar Pradesh	535	1,076,071	1,735	2,081
Uttar Pradesh & Rajasthan	31	18,925	2	341
Uttar Pradesh and Uttrakhand	10	800	0	0
Uttrakhand	17	56,093	39	56
West Bengal	27	0	0	0
Total	3,771	8,699,365	34,117	13,034

Source: PNGRB

Note: 1. All the GAs where PNG connections/CNG Stations have been established is 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 US\$/MMBTU	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

24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	56.51	35.61	IGL website
Mumbai	66.00	39.50	MGL website

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	2019-20	2020-21	January 2022	Particulars	Petrol*	Diesel*
Crude oil (Indian Basket)	60.47	44.82	84.67	Price charged to dealers (excluding Excise Duty and VAT)	48.24	49.62
Petrol	66.94	47.68	96.16	Excise Duty	27.90	21.80
Diesel	71.78	47.86	97.09	Dealers' Commission (Average)	3.77	2.57
Kerosene	70.56	43.60	93.74	VAT (incl VAT on dealers' commission)	15.50	12.68
LPG (\$/MT)	453.75	415.17	722.00	Retail Selling Price	95.41	86.67
FO (\$/MT)	321.19	259.30	469.06			
Naphtha (\$/MT)	471.08	378.93	743.66			
Exchange (Rs./\$)	70.88	74.20	74.44			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO*	Subsidised Domestic LPG*
Petrol	2.50%	Rs 27.90/Ltr [^]	**	Price before taxes and dealers'/distributors' commission	49.19	794.83
Diesel	2.50%	Rs 21.80/Ltr [^]	**	Dealers'/distributors' commission	2.64	61.84
PDS SKO	5%^	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	2.59	42.83
Non-PDS SKO	5.00%		18.00%	Retail Selling Price	54.42	899.50
Domestic LPG	Nil***		5.00%			
Non Domestic LPG	5.00%		18.00%			
Furnace Oil (Non-Fert)	2.5%^		18.00%			
Naphtha (Non-Fert)	2.5%^		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	**			

*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.*** Customs duty is Nil for import of Domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Customs duty rate is 5% for other importers of domestic LPG.[^]Effective 4.11.2021. ^{^^} Effective 2.02.2022

Particulars	Petrol*	Diesel*
Price before taxes and dealers'/distributors' commission	49.19	794.83
Dealers'/distributors' commission	2.64	61.84
GST (incl GST on dealers'/distributors' commission)	2.59	42.83
Retail Selling Price	54.42	899.50

*Petrol and Diesel at Delhi as per IOCL are as on 1st February 2022. PDS SKO at Mumbai as on 2nd February 2022 and Subsidised Domestic LPG at Delhi as on 1st February 2022.

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

PDS Kerosene /DBTL Subsidy

PDS Kerosene			
Product	2018-19	2019-20	2020-21
	Rs./Crore		
Under recovery	5,950	1,833	0
Subsidy under DBTK #	98	42	0
Total	6,048	1,875	0

#DBTK subsidy excludes cash incentive/ assistance for establishment of institutional mechanism for direct transfer of subsidy paid to States/UTs. DBTK subsidy for 2019-20 is till Oct 2019.

Domestic LPG under DBTL (Direct benefit transfer for LPG)

Particulars	2018-19	2019-20	2020-21
	Rs./Crore		
DBTL subsidy	31,447	22,635	3,559
PME & IEC^	92	91	99
Total	31,539	22,726	3,658

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

Sales & profit of petroleum sector (Rs. Crores)

Particulars	2020-21		2021-22 (H1)	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	132,830	17,878	92,234	28,088
Downstream Companies (PSU)	1,080,618	51,542	6,78,641	20,216
Standalone Refineries (PSU)	111,330	3,033	69,269	1,426
Private-RIL	278,940	31,944	203,553	17,823

Borrowings of OMCs (Rs. Crores), As on

Company	Mar`20	Mar`21	Sep`21
IOCL	116,545	102,327	84,002
BPCL	41,875	26,315	21,001
HPCL	43,021	40,009	37,724

Petroleum sector contribution to Central/State Govt.

Particulars	2019-20	2020-21 (P)	2021-22 (H1)
Central Government	3,34,315	455,069	216,794
% of total revenue receipts	20%	29%	
State Governments	2,21,056	217,650	133,130
% of total revenue receipts	8%	7%	
Total (Rs. Crores)	5,55,370	6,72,719	349,923

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

Particulars	2018-19	2019-20	2020-21
Petroleum subsidy	0.23	0.13	0.06

Note: GDP figure for 2018-19 & 2019-20 are Revised Estimates and 2020-21 are Provisional Estimates

**Totals may not tally due to roundoff.

Part G: Miscellaneous

26. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2018-19	2019-20	2020-21 (P)	2021-22 (P)	
				Target (Annual)	April-January
ONGC Ltd	28,738	30,115	26,441	29,800	19,389
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	4,326
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	3,524
GAIL (India) Ltd	5,958	4,381	5,560	5,861	5,298
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	21,410
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	11,853
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	9,716
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	460
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	528
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	2,139
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	15
Engineers India Ltd (EIL)	87	164	730	150	59
Total	95,684	98,955	106,642	104,620	78,716

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	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

Petroleum Planning & Analysis Cell

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