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

Abridged Ready Reckoner

December 2021

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

PPAC

Analysis • Knowledge • Information

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As on 17.01.2022

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-December 2021 with a volume of 148.32 MMT reported a growth of 4.93% compared to the volume of 141.355 MMT during the same period of the previous year. Except SKO & petcoke all other petroleum products reported a growth in consumption during April-December 2021 compared to the same period of the previous year. The consumption of petroleum products during December 2021 recorded a growth of 0.4% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during December 2021 was lower by 1.8 % than that of December 2020 as compared to a de-growth of 2.2 % during November 2021. OIL registered a growth of 5.4 % and ONGC registered a de-growth of 2.8 % during December 2021 as compared to December 2020. PSC registered de-growth of 1.9 % during December 2021 as compared to December 2020. De-growth of 2.6 % was registered in the total crude oil and condensate production during April- December 2021 over the corresponding period of the previous year.
- Total Consumption (including internal consumption) for the month of December 2021 was 5357 MMSCM which was 5% higher than the corresponding month of the previous year. The cumulative consumption of 49414 MMSCM for the current year till December 2021 was higher by 8.7% compared with the corresponding period of the previous year.
- Crude oil processed during December 2021 was 21.5 MMT, which was 2.2 % higher than December 2020 as compared to a growth of 3.4 % during November 2021. Growth of 10.5 % was registered in the total crude oil processing during April-December 2021 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 5.9 % during December 2021 over December 2020 as compared to a growth of 4.3 % during November 2021. Growth of 9.4 % was registered in the total POL production during April- December 2021 over the corresponding period of the previous year.
- Ethanol Blending with Petrol during December 2021, the first month of the Ethanol Supply Year(ESY) 2021-22, achieved 8.17% as compared to 8.1% during the ESY December 2020- November 2021

- Gross production of natural gas for the month of December 2021 was 2897 MMSCM which was higher by 19.5% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 25674 MMSCM for the current financial year till December, 2021 was higher by 21.5% compared with the corresponding period of the previous year.
- LNG import for the month of December, 2021(P) was 2543 MMSCM which was 7.5 % lower than the corresponding month of the previous year. The cumulative import of 24378 MMSCM for the current year till December, 2021 was lower by 2.4% compared with the corresponding period of the previous year.
- Crude oil imports decreased by 4.7% during December 2021 and increased by 9.1% during April-December 2021 respectively as compared to the corresponding period of the previous year.
- POL products imports decreased by 11.4% during December 2021 and 8.5% during April-December 2021 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-December 2021 was due to decrease in imports of petcoke, high speed diesel (HSD), motor sprit (MS), naphtha and superior kerosene oil (SKO).
- Exports of POL products increased by 24.4% during December 2021 and 9% during April-December 2021 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-December 2021 (P) was due to increase in exports of all products except LOBS/Lubes oil, Bitumen and petcoke/CBFS.
- The price of Brent Crude averaged $74.10/bbl during December 2021 as against $81.44/bbl during November 2021 and $49.86/bbl during December 2020. The Indian basket crude price averaged $73.30/bbl during December 2021 as against $80.64/bbl during November 2021 and $49.84 /bbl during December 2020.

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	308.7 4th AE	150.5 1st AE (Kharif)
		Growth %	9.4	3.6	0.1	4.3	3.7	-
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 (P)	December		April-December	
					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	-1.6*	1.4* QE	-15.3#	17.4#
6	Imports^	$ Billion	474.7	394.4	42.9	59.5	262.8	443.8
7	Exports^	$ Billion	313.4	291.8	27.2	37.8	201.4	301.4
8	Trade Balance	$ Billion	-161.3	-102.6	-15.7	-21.7	-61.4	-142.4
9	Foreign Exchange Reserves @	$ Billion	475.6	579.3	585.3	633.6	-	-

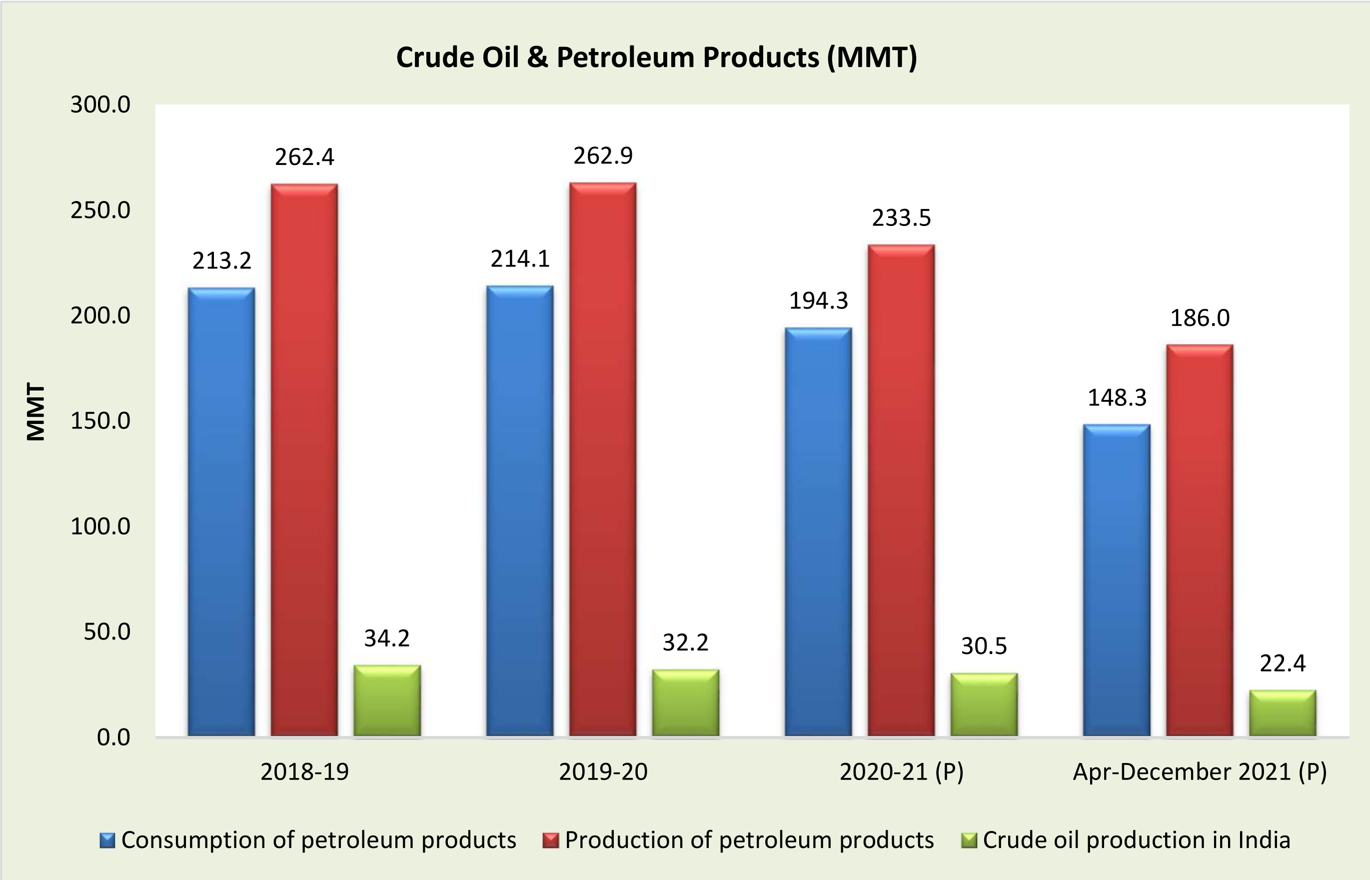
IIP is for the month of *November and #April-November; @2019-20-as on March 27, 2020, 2020-21-as on March 26, 2021, December 2020- as on December 25, 2020 and December 2021-as on December 31, 2021; ^Imports & Exports are for Merchandise; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; 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)	December 2020-21 (P)	December 2021-22 (P)	April-December 2020-21 (P)	April-December 2021-22 (P)
1	Crude oil production in India#	MMT	32.2	30.5	2.6	2.5	23.0	22.4
2	Consumption of petroleum products*	MMT	214.1	194.3	18.4	18.4	141.4	148.3
3	Production of petroleum products	MMT	262.9	233.5	21.5	22.8	170.1	186.0
4	Gross natural gas production	MMSCM	31,184	28,672	2,425	2,897	21,129	25,674
5	Natural gas consumption	MMSCM	64,144	60,815	5,102	5,357	45,445	49,414
6	Imports & exports:							
	Crude oil imports	MMT	227.0	196.5	20.5	19.5	143.4	156.4
		$ Billion	101.4	62.2	7.1	10.7	39.6	82.4
	Petroleum products (POL) imports*	MMT	43.8	43.2	4.0	3.5	32.8	30.0
		$ Billion	17.7	14.8	1.7	2.0	9.6	17.3
	Gross petroleum imports (Crude + POL)	MMT	270.7	239.7	24.5	23.1	176.2	186.4
		$ Billion	119.1	77.0	8.8	12.7	49.2	99.8
	Petroleum products (POL) export	MMT	65.7	56.8	4.7	5.8	42.1	45.9
		$ Billion	35.8	21.4	2.0	3.8	13.7	29.2
	LNG imports*	MMSCM	33,887	33,031	2,748	2,543	24,987	24,378
		$ Billion	9.5	7.9	0.7	0.9	5.4	8.7
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	20.4	21.3	18.7	22.5
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	7.3	10.0	6.8	9.7
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	85.1	86.1	83.1	85.1

#Includes condensate; *Private direct imports are prorated for the period Nov-2021 to Dec-2021; RIL data prorated for Dec-2021



Crude Oil & Petroleum Products (MMT)
MMT
300.0
250.0
200.0
150.0
100.0
50.0
0.0
213.2
262.4
34.2
214.1
262.9
32.2
194.3
233.5
30.5
148.3
186.0
22.4
2018-19
2019-20
2020-21 (P)
Apr-December 2021 (P)
Consumption of petroleum products
Production of petroleum products
Crude oil production in India

PART-B

Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2019-20	2020-21	December			April-December		
			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	14.4	15.3	13.9
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.3	2.2	2.4	2.2
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.6	0.6	5.4	5.8	5.3
Total Crude Oil	**30.5**	**29.1**	**2.4**	**2.6**	**2.4**	**21.9**	**23.4**	**21.4**
ONGC condensate	1.4	1.1	0.09	0.0	0.1	0.9	0.0	0.7
PSC condensate	0.3	0.3	0.03	0.0	0.02	0.20	0.0	0.23
Total condensate	**1.6**	**1.4**	**0.12**	**0.0**	**0.1**	**1.1**	**0.0**	**0.9**
Total (Crude + Condensate) (MMT)	**32.2**	**30.5**	**2.6**	**2.6**	**2.5**	**23.0**	**23.4**	**22.4**
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.60	0.63	0.59	0.61	0.62	0.60

*Provisional targets inclusive of condensate.

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

Details	2019-20	2020-21	December		April-December	
			2020-21	2021-22 (P)	2020-21	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	5.0	5.4	44.1	48.1
Overseas production (MMTOE)	24.5	21.9	1.9	1.9	16.5	16.5
Overseas production as percentage of domestic production	**38.7%**	**37.0%**	**37.5%**	**34.3%**	**37.4%**	**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	December		April-December	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	High Sulphur crude	192.4	161.4	15.3	17.0	117.3	134.7
2	Low Sulphur crude	62.0	60.3	5.7	4.5	43.0	42.5
Total crude processed (MMT)		**254.4**	**221.8**	**21.0**	**21.5**	**160.4**	**177.2**
Total crude processed (Million Bbl/Day)		5.09	4.45	4.97	5.08	4.27	4.72
Percentage share of HS crude in total crude oil processing		**75.6%**	**72.8%**	**72.9%**	**79.2%**	**73.2%**	**76.0%**

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

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

Particulars		2019-20	2020-21	December		April-December	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	Indigenous crude oil processing	29.3	28.0	2.5	2.4	21.1	20.4
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.4	2.2	19.7	19.0
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.4	0.3	4.2	3.1
4	Total production from indigenous crude & condensate **(2 + 3)**	32.1	30.3	2.7	2.6	23.9	22.1
5	Total domestic consumption	214.1	194.3	18.4	18.4	141.4	148.3
% Self-sufficiency (4 / 5)		**15.0%**	**15.6%**	**14.9%**	**13.9%**	**16.9%**	**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	December			April-December		
					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	3.8	4.5	3.9
2	Koyali (1965)	13.7	13.1	11.6	1.2	1.2	1.3	8.6	10.6	9.7
3	Haldia (1975)	8.0	6.5	6.8	0.7	0.6	0.3	4.7	6.0	5.6
4	Mathura (1982)	8.0	8.9	8.9	0.9	0.8	0.8	6.4	6.7	6.7
5	Panipat (1998)	15.0	15.0	13.2	1.4	1.3	1.3	9.6	11.9	11.2
6	Guwahati (1962)	1.0	0.9	0.8	0.08	0.1	0.1	0.59	0.6	0.5
7	Digboi (1901)	0.65	0.7	0.6	0.06	0.06	0.06	0.5	0.5	0.5
8	Bongaigaon(1979)	2.35	2.0	2.5	0.2	0.2	0.2	1.8	1.9	2.0
9	Paradip (2016)	15.0	15.8	12.5	1.0	1.3	1.3	8.8	9.9	9.3
	IOCL-TOTAL	**69.7**	**69.4**	**62.4**	**6.0**	**6.2**	**5.9**	**44.8**	**52.5**	**49.4**
10	Manali (1969)	10.5	10.2	8.2	0.8	0.9	0.8	5.6	7.3	6.1
11	CBR (1993)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL-TOTAL	**11.5**	**10.2**	**8.2**	**0.8**	**0.9**	**0.8**	**5.6**	**7.3**	**6.1**
12	Mumbai (1955)	12.0	15.0	12.9	1.2	1.1	1.3	9.0	10.6	10.6
13	Kochi (1966)	15.5	16.5	13.3	1.3	1.4	1.4	8.9	12.0	11.0
14	Bina (2011)	7.8	7.9	6.2	0.6	0.6	0.7	4.3	5.3	5.4
	BPCL-TOTAL	**35.3**	**39.4**	**32.4**	**3.2**	**3.0**	**3.3**	**22.2**	**27.9**	**27.1**
15	Numaligarh (1999)	3.0	2.4	2.7	0.3	0.2	0.1	2.0	2.1	1.9

Sl. no.	Refinery	Installed capacity (1.01.2022) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21	December			Apr-December		
					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	0.007	0.006	0.007	0.059	0.047	0.055
17	MRPL-Mangalore (1996)	15.0	14.0	11.5	1.3	1.4	1.4	7.4	10.9	10.5
	ONGC-TOTAL	**15.1**	**14.0**	**11.6**	**1.3**	**1.4**	**1.4**	**7.5**	**10.9**	**10.6**
18	Mumbai (1954)	7.5	8.1	7.4	0.6	0.7	0.7	5.4	5.0	3.2
19	Visakh (1957)	8.3	9.1	9.1	0.7	0.8	0.8	6.6	6.9	6.0
20	HMEL-Bathinda (2012)	11.3	12.2	10.1	1.0	0.9	1.1	8.2	8.3	9.8
	HPCL- TOTAL	**27.1**	**29.4**	**26.5**	**2.3**	**2.5**	**2.6**	**20.3**	**20.2**	**19.1**
21	RIL-Jamnagar (DTA) (1999)	33.0	33.0	34.1	3.0	3.0	3.0	25.7	25.7	25.9
22	RIL-Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.7	2.7	2.5	19.9	19.9	21.9
23	NEL-Vadinar (2006)	20.0	20.6	17.1	1.5	1.5	1.7	12.5	12.5	15.2
All India (MMT)		**249.9**	**254.4**	**221.8**	**21.0**	**21.6**	**21.5**	**160.4**	**179.0**	**177.2**
All India (Million Bbl/Day)		**5.02**	**5.09**	**4.45**	**4.97**		**5.08**	**4.27**		**4.72**

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 01.01.2022)

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

Dabhol, Dahej, Hazira, Kochi, Mundra, Ennore

★ (Upcoming Terminals) Dhamra, Jafrabad, Jaigarh, Chhara

LEGENDS

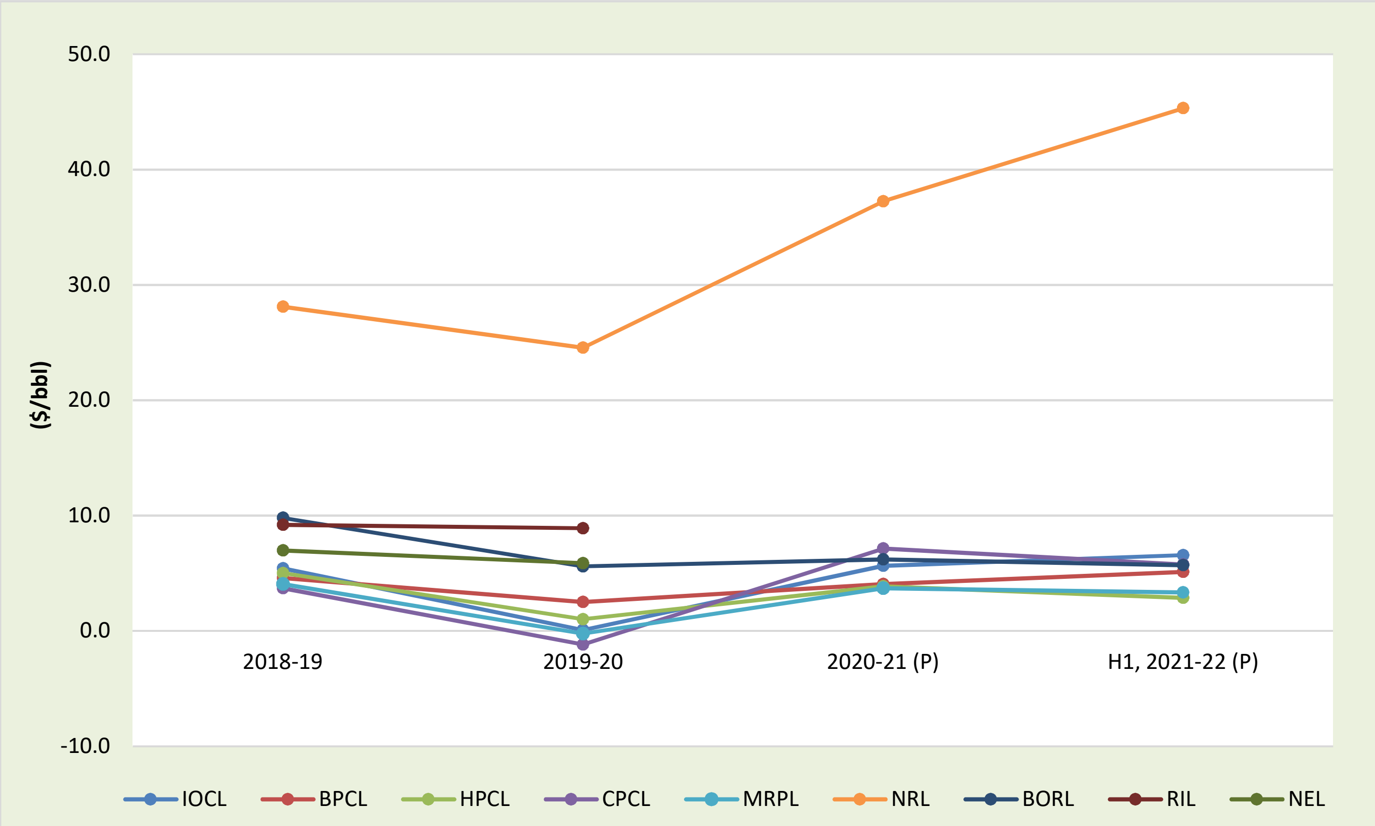
Pipelines Network

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

10. Gross Refining Margins (GRM) of refineries ($/bbl)				
Company	**2018-19**	**2019-20**	**2020-21 (P)**	**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

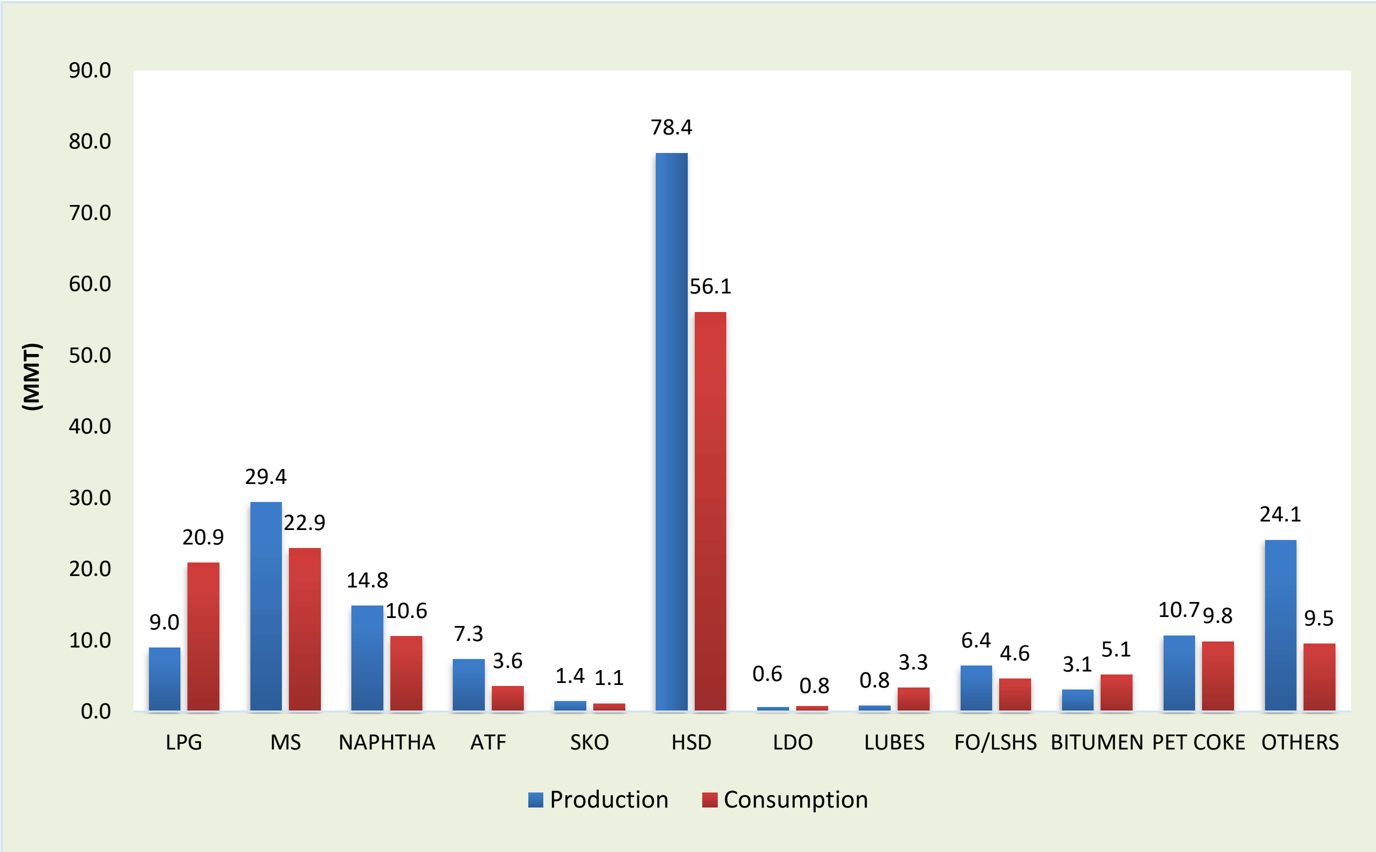
Consumption

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

Products	2019-20		2020-21		December 2020		December 2021 (P)		Apr-Dec 2020		Apr-Dec 2021 (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	2.5	9.3	20.5	9.0	20.9
MS	38.6	30.0	35.8	28.0	3.3	2.7	3.7	2.8	25.8	20.1	29.4	22.9
NAPHTHA	20.6	14.3	19.4	14.1	1.6	1.2	1.7	1.2	14.2	10.4	14.8	10.6
ATF	15.2	8.0	7.1	3.7	0.7	0.4	1.1	0.6	4.7	2.4	7.3	3.6
SKO	3.2	2.4	2.4	1.8	0.2	0.1	0.2	0.1	1.8	1.4	1.4	1.1
HSD	111.1	82.6	100.4	72.7	9.5	7.2	9.4	7.3	72.8	52.1	78.4	56.1
LDO	0.6	0.6	0.7	0.9	0.08	0.09	0.06	0.09	0.5	0.6	0.6	0.8
LUBES	0.9	3.8	1.1	4.1	0.1	0.4	0.1	0.4	0.7	2.9	0.8	3.3
FO/LSHS	9.3	6.3	7.4	5.6	0.6	0.5	0.7	0.5	5.3	4.1	6.4	4.6
BITUMEN	4.9	6.7	4.9	7.5	0.6	0.9	0.4	0.7	3.1	4.8	3.1	5.1
PET COKE	14.6	21.7	12.0	15.6	1.1	1.2	1.4	1.1	8.8	12.5	10.7	9.8
OTHERS	31.0	11.4	30.2	12.8	2.6	1.0	2.9	1.2	23.1	9.5	24.1	9.5
ALL INDIA	**262.9**	**214.1**	**233.5**	**194.3**	**21.5**	**18.4**	**22.8**	**18.4**	**170.1**	**141.4**	**186.0**	**148.3**
Growth (%)	**0.2%**	**0.4%**	**-11.2%**	**-9.3%**	**-2.8%**	**-3.1%**	**5.9%**	**0.4%**	**-13.0%**	**-12.4%**	**9.4%**	**4.9%**

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-December 2021 (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	13,38,876	12,63,656

* For 2022-21 allocation is for Apr-Dec 2021 and upliftment is for Apr-Dec 2021.

13. Ethanol blending programme

Particulars	Ethanol Supply Year *			
	2018-19	2019-20	2020-21	2021-22 (P) Dec-21
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	28.0
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	8.2%

***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 01.01.2022) (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.),**^	33,546	19,668	19,602	1,448	6,496	310	29	**81,099**
out of which Rural ROs	10,608	4,655	4,835	130	2,101	75	3	**22,407**
SKO/LDO agencies **(Nos.)**	3,871	927	1,638					**6,436**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,784	6,191	6,217					**25,192**
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)**	14.4	7.8	8.3					**30.5**

$(Others=4 MRPL & 2 NRL); @(Others=ShellMRPL); ^(Others=29 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.

पहल

अपना धन पाओ, जन धन बचाओ.

प्रत्यक्ष हस्तांतरित लाभ

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PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)

LPG category	2019-20	2020-21	December			April-December		
			2020-21	2021-22 (P)	Gr (%)	2020-21	2021-22 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	23,076.0	25,128.1	2,253.4	2,235.3	-0.8	18,929.7	18,839.5	-0.5
LPG-Packed Non-Domestic	2,614.4	1,886.0	218.5	196.6	-10.0	1,253.9	1,624.1	29.5
LPG-Bulk	263.5	361.9	33.9	26.4	-22.1	243.2	270.6	11.3
Auto LPG	171.9	118.4	13.1	11.1	-15.3	80.8	91.2	12.9
Sub-Total (PSU Sales)	26,125.7	27,494.3	**2,518.9**	**2,469.3**	**-2.0**	**20,507.6**	**20,825.4**	**1.5**
2. Direct Private Imports*	204.0	64.2	4.4	6.6	50.2	42.3	57.2	35.2
Total (1+2)	26,329.8	27,558.4	**2,523.3**	**2,475.9**	**-1.9**	**20,549.9**	**20,882.6**	**1.6**

*Nov -Dec 2021 DGCIS data are prorated

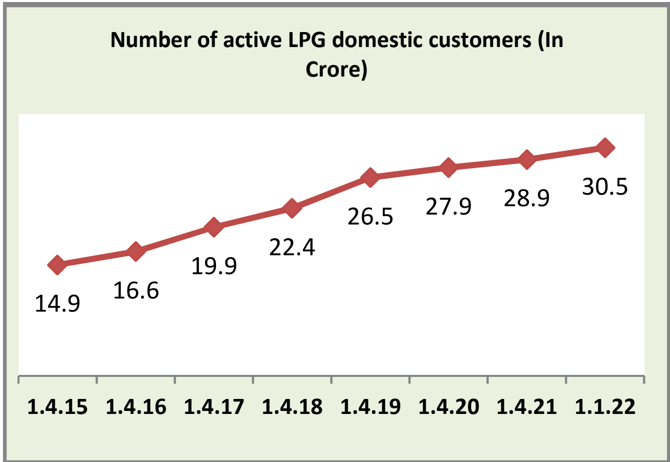
16. LPG marketing at a glance

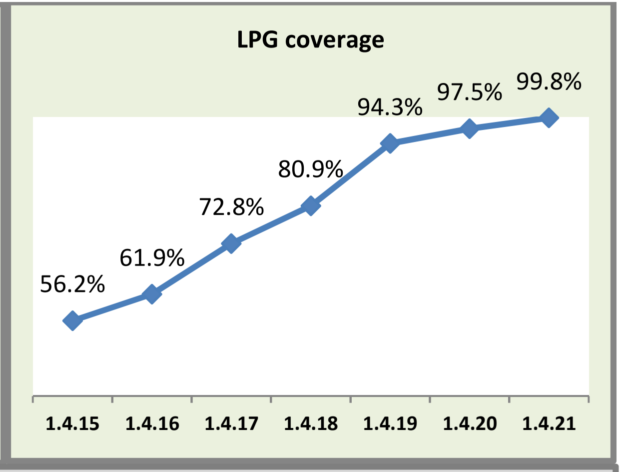
Particulars (As on 1st of April)	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1.01.22 (P)
LPG Active Domestic Customers	(Lakh)						1486	1663	1988	2243	2654	2787	2895	3053
	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	6.2%
LPG Coverage (Estimated)	(Percent)						56.2	61.9	72.8	80.9	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	896.4
	Growth									77.7%	101.9%	11.5%	-0.2%	11.8%
LPG Distributors	(No.)	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25192
	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%	1.1%
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%

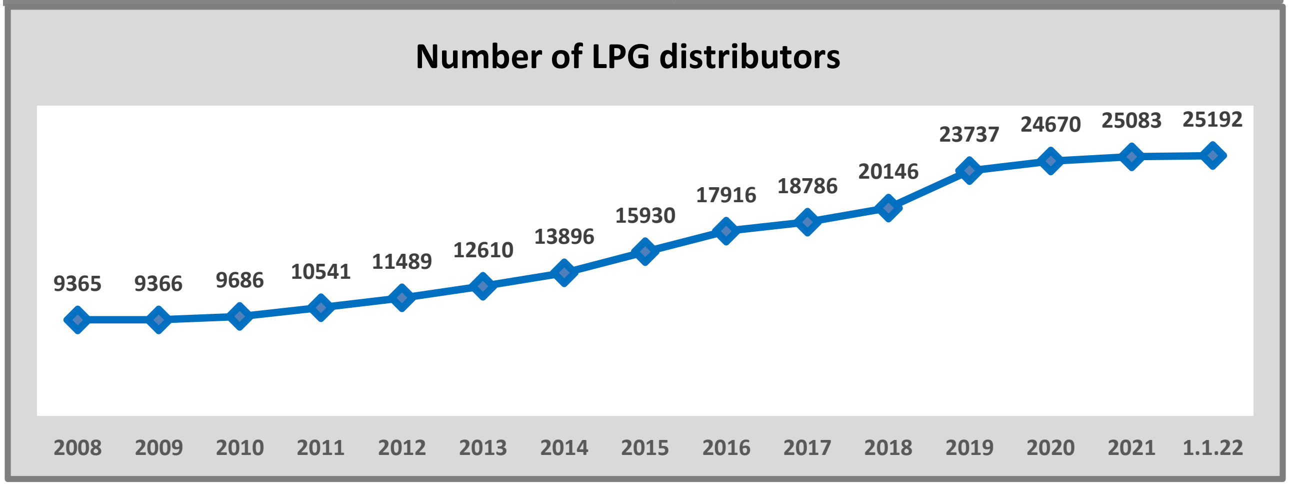
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.Growth rates as on 01.01.2022 are w.r.t. figs as on 01.01.2021. Growth rates as on 1 April of any year are w.r.t. figs as on 1 April of previous year.

2. The methodology used for estimating LPG coverage by PSU OMC's is under review.

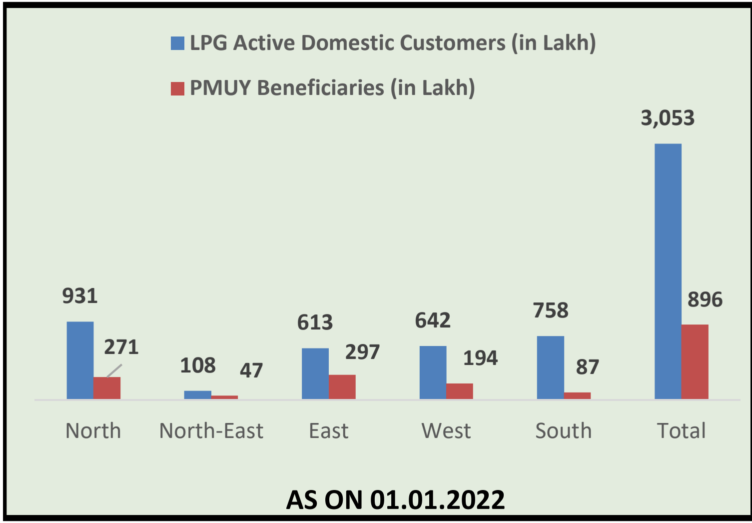

Number of active LPG domestic customers (In Crore)
14.9
16.6
19.9
22.4
26.5
27.9
28.9
30.5
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.4.20
1.4.21
1.1.22

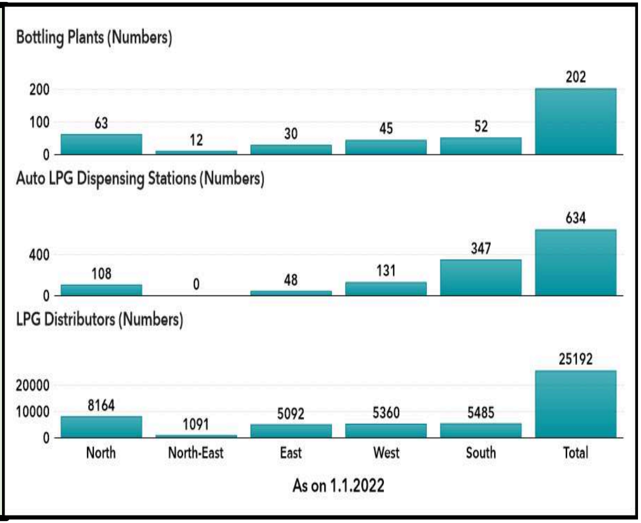

LPG coverage
56.2%
61.9%
72.8%
80.9%
94.3%
97.5%
99.8%
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.4.20
1.4.21


Number of LPG distributors
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24670
25083
25192
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
1.1.22

17-Region-wise data on LPG marketing (As on 01.01.2022)						
Particulars	**North**	**North-East**	**East**	**West**	**South**	**Total**
LPG Active Domestic Customers (in Lakh)	930.7	108.0	613.0	642.5	758.4	3052.6
PMUY Beneficiaries (in Lakh)	270.8	47.4	296.6	194.2	87.4	896.4
LPG Distributors (Numbers)	8164	1091	5092	5360	5485	25192.0
Auto LPG Dispensing Stations (Numbers)	108	0	48	131	347	634.0
Bottling Plants* (Numbers)	63	12	30	45	52	202.0

*Includes Numaligarh BP, Duliajan BP and CPCL BP.







PART-E

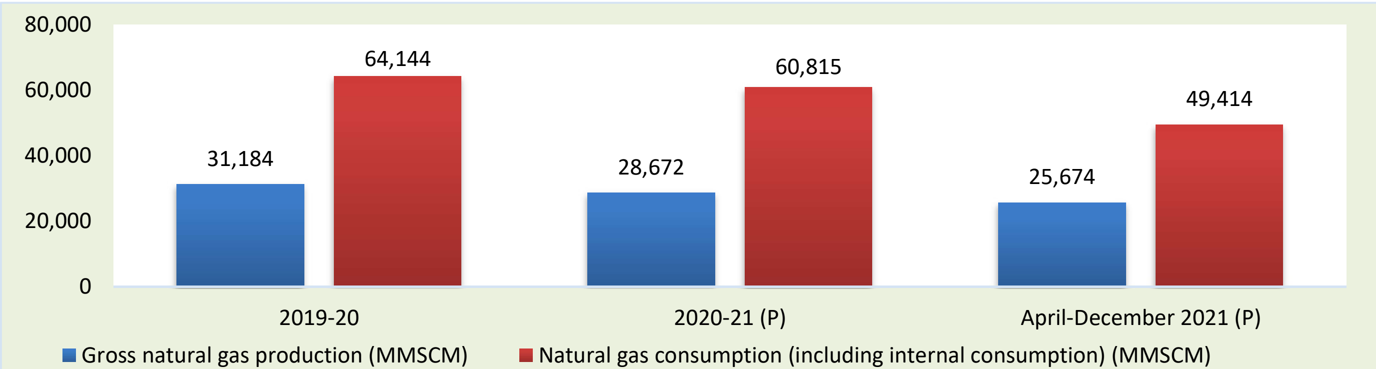
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2019-20	2020-21 (P)	December			April-December		
			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	2,425	3,405	2,897	21,129	28,137	25,674
- ONGC	23,746	21,872	1,858	2,009	1,757	16,544	17,489	15,542
- Oil India Limited (OIL)	2,668	2,480	202	251	240	1,870	2,223	2,190
- Private / Joint Ventures (JVs)	4,770	4,321	366	1,145	899	2,715	8,425	7,942
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,355		2,814	20,458		25,036
(c) LNG import#	33,887	33,031	2,748		2,543	24,987		24,378
(d) Total consumption including internal consumption (b+c)	64,144	60,815	5,102		5,357	45,445		49,414
(e) Total consumption **(in BCM)**	64.1	60.8	5.1		5.4	45.4		49.4
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.3	53.9		47.5	55.0		49.3

#Jul 2020-Dec 2021 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		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-December 2021 (P)	517.75	MMSCM
Production of CBM gas	December 2021 (P)	58.13	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 01.01.2022	% Capacity utilisation (Apr-Nov 2021)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	90.2
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	63.2
Dabhol	Konkan LNG Limited	*5 MMTPA	63.3
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	21.9
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	14.0
Mundra	GSPC LNG Limited	5 MMTPA	20.2
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 30.11.2021(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	102	221,475	330	23
Andhra Pradesh, Karnataka & Tamil Nadu	2	0	0	1
Assam	1	39,093	1,244	413
Bihar	22	41,450	16	1
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	21	21,768	63	13
Dadra & Nagar Haveli (UT)	7	7,491	48	46
Daman & Diu (UT)	4	4,886	32	33
Daman and Diu & Gujarat	12	190	1	0
Goa	9	9,638	7	18
Gujarat	855	2,564,936	20,769	5,645
Haryana	201	215,442	633	1,140
Haryana & Himachal Pradesh	8	0	0	0
Haryana & Punjab	11	0	0	0
Himachal Pradesh	2	1,510	0	0
Jharkhand	36	61,457	0	0
Karnataka	101	308,698	466	234
Kerala	42	16,816	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	122	116,050	203	319
Madhya Pradesh and Rajasthan	17	0	0	0
Madhya Pradesh and Uttar Pradesh	8	0	0	0
Maharashtra	497	2,182,391	4,593	474
Maharashtra & Gujarat	43	75,321	0	0
National Capital Territory of Delhi (UT)	438	1,145,552	2,919	1,649
Odisha	25	42,616	0	0
Puducherry & Tamil Nadu	3	0	0	0
Punjab	121	17,767	148	93
Rajasthan	120	86,342	20	203
Tamil Nadu	68	0	0	0
Telangana	108	154,424	42	64
Tripura	18	51,809	501	62
Uttar Pradesh	518	1,044,411	1,699	2,036
Uttar Pradesh & Rajasthan	31	18,860	2	341
Uttar Pradesh and Uttrakhand	10	800	0	0
Uttrakhand	17	54,714	39	56
West Bengal	26	0	0	0
Total	**3,628**	**8,505,907**	**33,790**	**12,876**

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	54.02	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)

Particulars	2019-20	2020-21	December 2021
Crude oil (Indian Basket)	60.47	44.82	73.30
Petrol	66.94	47.68	85.67
Diesel	71.78	47.86	83.45
Kerosene	70.56	43.60	81.26
LPG ($/MT)	453.75	415.17	768.00
FO ($/MT)	321.19	259.30	404.47
Naphtha ($/MT)	471.08	378.93	671.18
Exchange (Rs./$)	70.88	74.20	75.37

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 27.90/Ltr^	**
Diesel	2.50%	Rs 21.80/Ltr^	**
PDS SKO	Nil	Not Applicable	5.00%
Non-PDS SKO	5.00%		18.00%
Domestic LPG	Nil***		5.00%
Non Domestic LPG	5.00%		18.00%
Furnace Oil (Non-Fert)	5.00%		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

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

Particulars	Petrol*	Diesel*
Price charged to dealers (excluding Excise Duty and VAT)	48.23	49.61
Excise Duty	27.90	21.80
Dealers' Commission (Average)	3.78	2.58
VAT (incl VAT on dealers' commission)	15.50	12.68
Retail Selling Price	**95.41**	**86.67**

Particulars	PDS SKO*	Subsidised Domestic LPG*
Price before taxes and dealers'/distributors' commission	41.28	794.82
Dealers'/distributors' commission	2.64	61.84
GST (incl GST on dealers'/distributors' commission)	2.20	42.84
Retail Selling Price	**46.12**	**899.50**

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

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

PDS Kerosene /DBTL Subsidy

PDS Kerosene

Product	2018-19	2019-20	2020-21 (P)
	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 mechanisam 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 (P)
	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-December
ONGC Ltd	28,738	30,115	26,441	29,800	16,929
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	3,711
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	3,152
GAIL (India) Ltd	5,958	4,381	5,560	5,861	4,721
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	18,560
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	10,939
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	9,203
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	387
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	488
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	1,835
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	13
Engineers India Ltd (EIL)	87	164	730	150	53
Total	**95,684**	**98,955**	**106,642**	**104,620**	**69,992**

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

27. Conversion factors and volume conversion

Weight to volume conversion

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

Exclusive Economic Zone

200 Nautical Miles	370.4 Kilometers

Volume conversion

From	To
1 US Barrel (bbl)	159 litres
1 US Barrel (bbl)	42 US Gallons
1 US Gallon	3.78 litres
1 Kilo litre (KL)	6.29 bbl
1 Million barrels per day	49.8 MMTPA

Energy conversion

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

Natural gas conversions

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

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