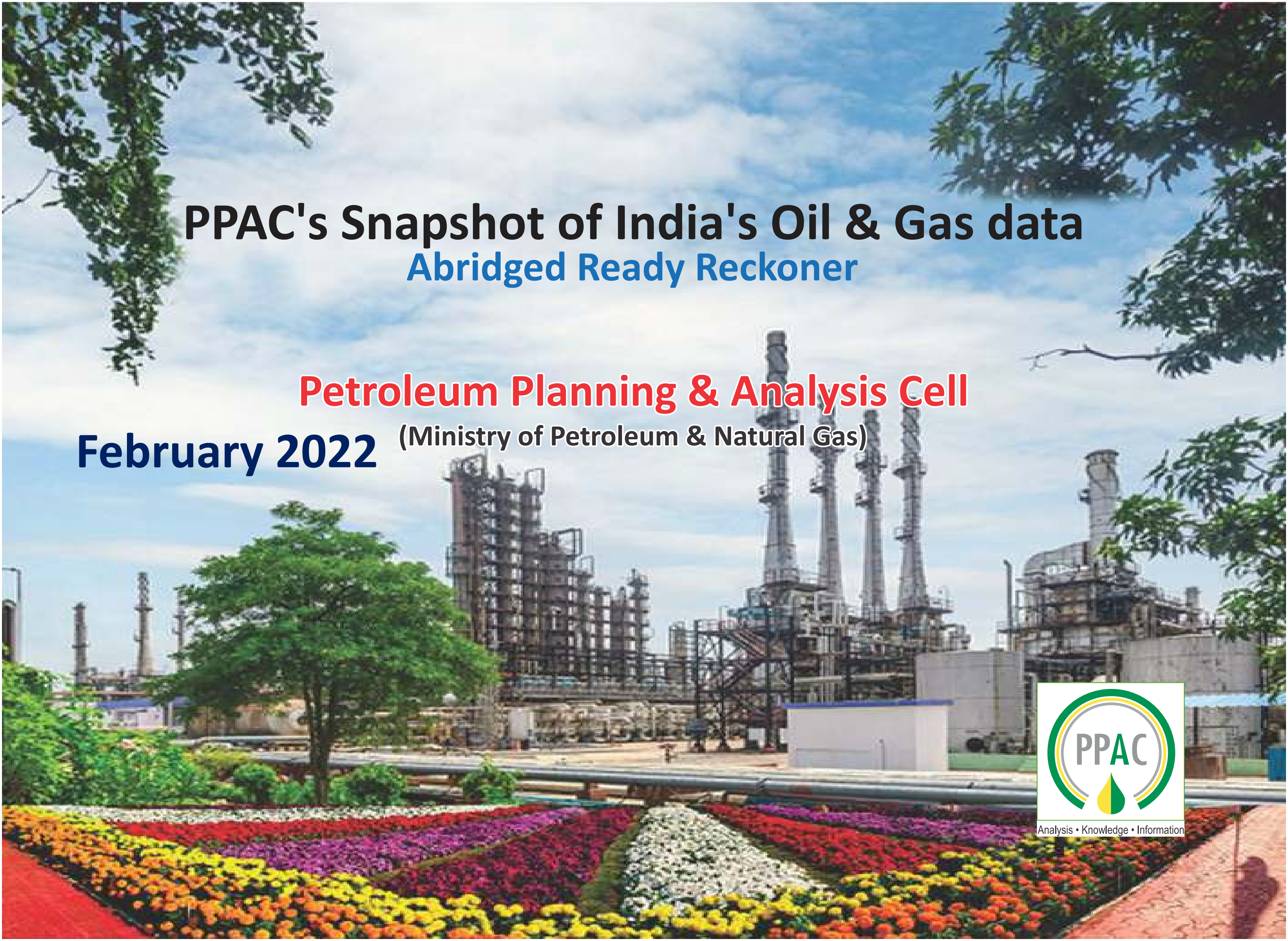

PPAC's Snapshot of India's Oil & Gas data

Abridged Ready Reckoner

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

February 2022

“Credits (Cover Page Photo) : Gujarat Refinery, Indian Oil Corporation Limited”

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

Abridged Ready Reckoner

February, 2022

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 17.03.2022

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.

Note: Reported data may undergo change on receipt of actuals

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Highlights for the month

- The consumption of petroleum products during April-February 2022 with a volume of 183.3 MMT reported a growth of 4.3% compared to the volume of 175.7 MMT during the same period of the previous year. Except SKO, petcoke & others, all other petroleum products reported a growth in consumption during April-February 2022 compared to the same period of the previous year. The consumption of petroleum products during February 2022 recorded a growth of 5.4% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during February 2022 was lower by 2.2 % than that of February 2021 as compared to a de-growth of 2.4 % during January 2021. OIL registered a growth of 5.4 % and ONGC registered a de-growth of 2.2 % during February 2022 as compared to February 2021. PSC registered de-growth of 5.1 % during February 2022 as compared to February 2021. De-growth of 2.6 % was registered in the total crude oil and condensate production during April - February 2022 over the corresponding period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of February 2022 was 5023 MMSCM which was 5.6% higher than the corresponding month of the previous year. The cumulative consumption of 59611 MMSCM for the current year till February 2022 was higher by 7.7% compared with the corresponding period of the previous year.
- Crude oil processed during February 2022 was 20.4 MMT, which was 9.8 % higher than February 2021 as compared to a de-growth of 0.5 % during January 2021. Growth of 9.3 % was registered in the total crude oil processing during April- February 2022 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 8.8 % during February 2022 over February 2021 as compared to a growth of 3.7 % during January 2021. Growth of 9.1 % was registered in the total POL production during April- February 2022 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 10.49% during February 2022 and cumulative ethanol blending during December 2021-February 2022 was 9.27%.

- Gross production of natural gas for the month of February 2022 was 2602 MMSCM which was higher by 12.8% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 31137 MMSCM for the current financial year till February 2022 was higher by 19.8% compared with the corresponding period of the previous year.
- LNG import for the month of February 2022 (P) was 2507 MMSCM which was 0.5 % lower than the corresponding month of the previous year. The cumulative import of 29293 MMSCM for the current year till February 2022 was lower by 3.0% compared with the corresponding period of the previous year.
- Crude oil imports increased by 15.5% and 8.6% during February 2022 and April-February 2022 respectively as compared to the corresponding period of the previous year.
- POL products imports decreased by 1.2% and 5.9% during February 2022 and April-February 2022 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-February 2022 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 18.4% and 10.5% during February 2022 and April-February 2022 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-February 2022 (P) was due to increase in exports of all products except LOBS/Lubes oil, Bitumen, petcoke/CBFS and superior kerosene oil (SKO).
- The price of Brent Crude averaged $98.19/bbl during February 2022 as against $87.22/bbl during January 2022 and $62.22/bbl during February 2021. The Indian basket crude price averaged $94.07/bbl during February 2022 as against $84.67/bbl during January 2022 and $61.22 /bbl during February 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	-6.6 1st RE	8.9 2nd AE (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	1.7
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)	February		April-February	
					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	-0.6*	1.3* QE	-12.0#	13.7#
6	Imports^	$ Billion	474.7	394.4	40.8	55.5	345.5	550.6
7	Exports^	$ Billion	313.4	291.8	27.6	34.6	256.6	374.8
8	Trade Balance	$ Billion	-161.3	-102.6	-13.1	-20.9	-89.0	-175.8
9	Foreign Exchange Reserves @	$ Billion	475.6	579.3	584.6	631.5	-	-

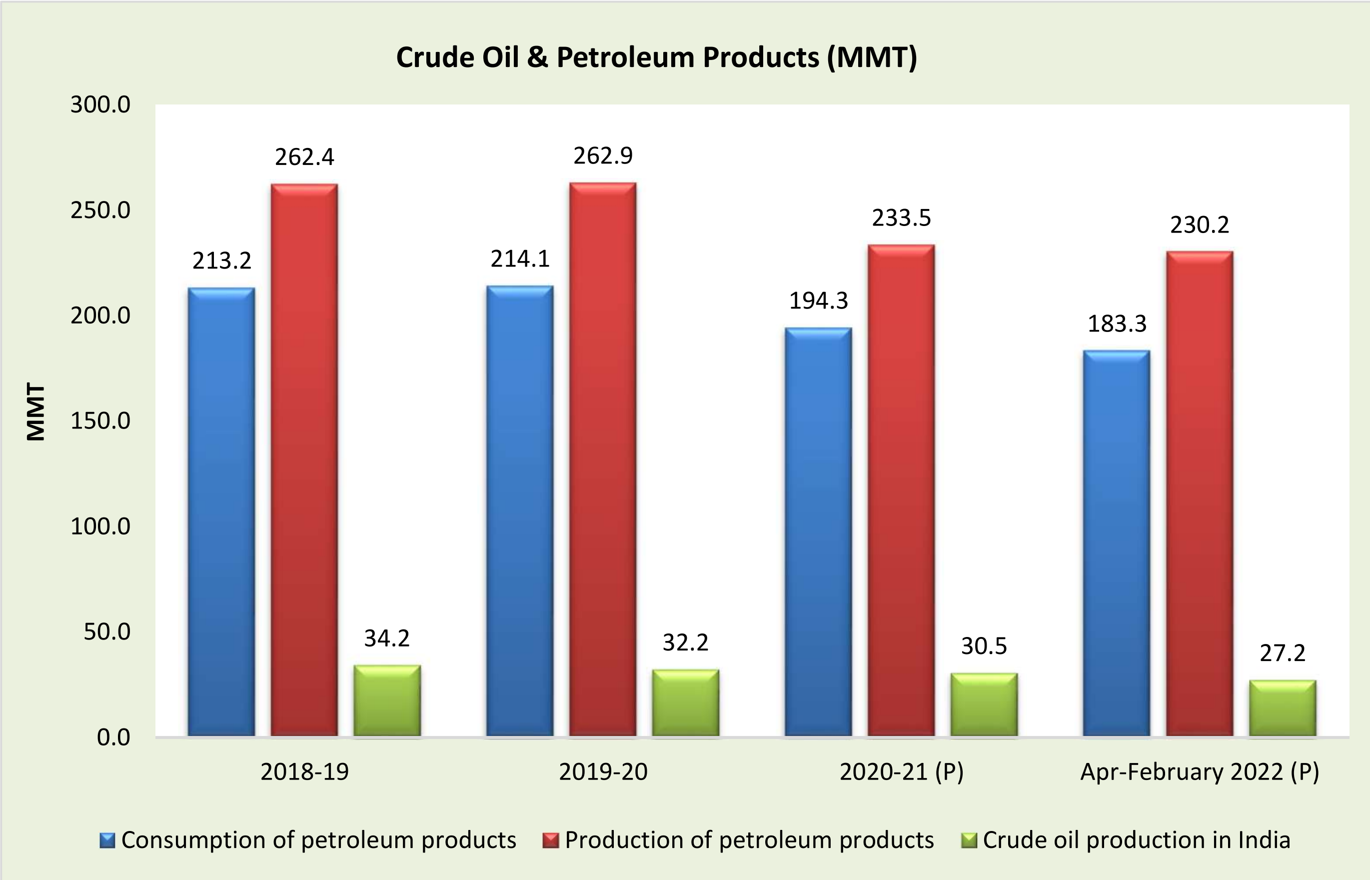
IIP is for the month of *January and #April-January; @2019-20-as on March 27, 2020, 2020-21-as on March 26, 2021, February 2021- as on February 26, 2021 and February 2022-as on February 25, 2022; ^Imports & Exports are for Merchandise; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised 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)	February		April-February	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Crude oil production in India#	MMT	32.2	30.5	2.3	2.3	27.9	27.2
2	Consumption of petroleum products*	MMT	214.1	194.3	16.7	17.6	175.7	183.3
3	Production of petroleum products	MMT	262.9	233.5	19.4	21.2	211.0	230.2
4	Gross natural gas production	MMSCM	31,184	28,672	2,307	2,602	25,987	31,137
5	Natural gas consumption	MMSCM	64,144	60,815	4,755	5,023	55,368	59,611
6	Imports & exports:							
	Crude oil imports	MMT	227.0	196.5	15.2	17.6	178.2	193.5
		$ Billion	101.4	62.2	6.6	11.6	53.8	105.9
	Petroleum products (POL) imports*	MMT	43.8	43.2	3.4	3.3	39.2	36.9
		$ Billion	17.7	14.8	1.8	2.1	12.9	21.9
	Gross petroleum imports (Crude + POL)	MMT	270.7	239.7	18.6	20.9	217.4	230.4
		$ Billion	119.1	77.0	8.4	13.7	66.7	127.8
	Petroleum products (POL) export	MMT	65.7	56.8	4.1	4.9	50.7	56.0
		$ Billion	35.8	21.4	2.2	4.1	18.0	37.5
	LNG imports*	MMSCM	33,887	33,031	2,520	2,507	30,198	29,293
		$ Billion	9.5	7.9	0.8	1.0	7.0	10.9
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	20.5	24.6	19.3	23.2
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	8.1	11.8	7.0	10.0
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	86.9	87.4	84.1	85.4

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


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
183.3
230.2
27.2
2018-19
2019-20
2020-21 (P)
Apr-February 2022 (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	February			April-February		
			2020-21	2021-22 Target*	2021-22 (P)	2020-21	2021-22 Target*	2021-22 (P)
ONGC	19.2	19.1	1.5	1.6	1.4	17.4	18.5	16.9
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.2	2.7	2.9	2.7
Private / Joint Ventures (JVs)	8.2	7.1	0.5	0.6	0.5	6.5	7.1	6.4
Total Crude Oil	**30.5**	**29.1**	**2.2**	**2.4**	**2.2**	**26.6**	**28.5**	**26.0**
ONGC condensate	1.4	1.1	0.08	0.0	0.1	1.0	0.0	0.9
PSC condensate	0.3	0.3	0.02	0.0	0.02	0.24	0.0	0.28
Total condensate	**1.6**	**1.4**	**0.10**	**0.0**	**0.1**	**1.3**	**0.0**	**1.1**
Total (Crude + Condensate) (MMT)	**32.2**	**30.5**	**2.3**	**2.4**	**2.3**	**27.9**	**28.5**	**27.2**
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	February		April-February	
			2020-21	2021-22 (P)	2020-21	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	4.6	4.9	53.9	58.3
Overseas production (MMTOE)	24.5	21.9	1.7	1.6	20.0	20.0
Overseas production as percentage of domestic production	**38.7%**	**37.0%**	**35.8%**	**33.8%**	**37.2%**	**34.3%**

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

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

Details		2019-20	2020-21	February		April-February	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	High Sulphur crude	192.4	161.4	13.0	15.9	146.1	167.7
2	Low Sulphur crude	62.0	60.3	5.6	4.6	54.6	51.6
Total crude processed (MMT)		**254.4**	**221.8**	**18.6**	**20.4**	**200.8**	**219.4**
Total crude processed (Million Bbl/Day)		5.09	4.45	4.87	5.35	4.41	4.81
Percentage share of HS crude in total crude oil processing		**75.6%**	**72.8%**	**69.8%**	**77.7%**	**72.8%**	**76.5%**

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-February 2021-22(P)	193.5	105,871	7,88,442

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		**2019-20**	**2020-21**	**February**		**April-February**	
				2020-21	**2021-22 (P)**	**2020-21**	**2021-22 (P)**
1	Indigenous crude oil processing	29.3	28.0	2.0	2.1	25.5	24.8
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	1.9	1.9	23.8	23.1
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.3	0.3	4.2	3.7
4	Total production from indigenous crude & condensate **(2 + 3)**	32.1	30.3	2.2	2.2	28.0	26.8
5	Total domestic consumption	214.1	194.3	16.7	17.6	175.7	183.3
% Self-sufficiency (4 / 5)		**15.0%**	**15.6%**	**13.1%**	**12.6%**	**15.9%**	**14.6%**

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	February			April-February		
					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	0.5	0.6	0.5	4.9	5.1	5.0
2	Koyali (1965)	13.7	13.1	11.6	0.9	1.2	1.2	10.7	12.1	12.1
3	Haldia (1975)	8.0	6.5	6.8	0.7	0.7	0.6	6.1	7.0	6.6
4	Mathura (1982)	8.0	8.9	8.9	0.8	0.8	0.8	8.1	8.4	8.2
5	Panipat (1998)	15.0	15.0	13.2	1.0	1.3	1.1	12.0	13.9	13.6
6	Guwahati (1962)	1.0	0.9	0.8	0.08	0.1	0.1	0.76	0.6	0.6
7	Digboi (1901)	0.65	0.7	0.6	0.02	0.06	0.05	0.6	0.7	0.6
8	Bongaigaon(1979)	2.70	2.0	2.5	0.2	0.2	0.2	2.2	2.4	2.4
9	Paradip (2016)	15.0	15.8	12.5	1.2	1.3	1.2	11.1	12.1	11.8
	IOCL-TOTAL	**70.1**	**69.4**	**62.4**	**5.4**	**6.1**	**5.8**	**56.4**	**62.3**	**61.0**
10	Manali (1969)	10.5	10.2	8.2	0.8	1.0	0.9	7.3	8.1	8.0
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**	**0.8**	**1.0**	**0.9**	**7.3**	**8.1**	**8.0**
12	Mumbai (1955)	12.0	15.0	12.9	1.3	1.2	1.2	11.6	13.2	13.2
13	Kochi (1966)	15.5	16.5	13.3	1.4	1.4	1.4	11.9	13.8	13.9
14	Bina (2011)	7.8	7.9	6.2	0.6	0.5	0.6	5.6	6.5	6.7
	BPCL-TOTAL	**35.3**	**39.4**	**32.4**	**3.3**	**3.1**	**3.2**	**29.1**	**33.4**	**33.8**
15	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.2	2.5	2.6	2.4

Sl. no.	Refinery	Installed capacity (1.01.2022) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21	February			Apr-February		
					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	0.005	0.006	0.073	0.058	0.069
17	MRPL-Mangalore (1996)	15.0	14.0	11.5	1.3	1.3	1.4	10.1	13.2	13.4
	ONGC-TOTAL	**15.1**	**14.0**	**11.6**	**1.3**	**1.3**	**1.4**	**10.2**	**13.2**	**13.4**
18	Mumbai (1954)	7.5	8.1	7.4	0.6	0.7	0.7	6.7	6.5	4.8
19	Visakh (1957)	8.3	9.1	9.1	0.7	1.1	0.8	8.2	9.3	7.6
20	HMEL-Bathinda (2012)	11.3	12.2	10.1	0.0	0.8	1.0	9.0	10.1	11.9
	HPCL- TOTAL	**27.1**	**29.4**	**26.5**	**1.4**	**2.6**	**2.5**	**23.9**	**25.9**	**24.4**
21	RIL-Jamnagar (DTA) (1999)	33.0	33.0	34.1	2.7	2.7	2.8	31.3	31.3	31.7
22	RIL-Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.2	2.2	2.0	24.8	24.8	26.2
23	NEL-Vadinar (2006)	20.0	20.6	17.1	1.4	1.4	1.6	15.4	15.4	18.5
All India (MMT)		**249.2**	**254.4**	**221.8**	**18.6**	**20.6**	**20.4**	**200.8**	**217.1**	**219.4**
All India (Million Bbl/Day)		**5.02**	**5.09**	**4.45**	**4.87**	**5.40**	**5.35**	**4.41**	**4.76**	**4.81**

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 01.03.2022)

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

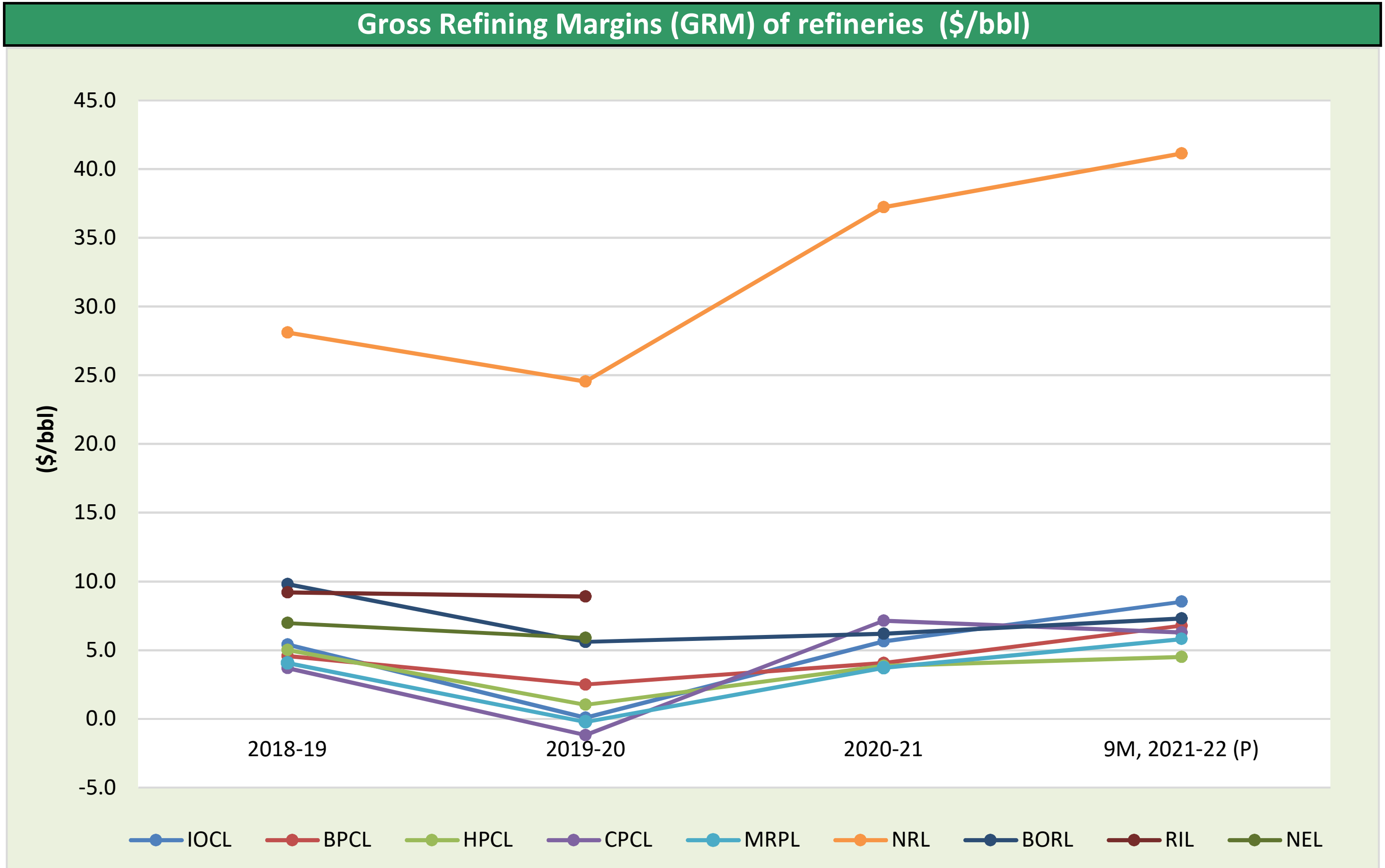
Pipelines Network

- 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**	**9M, 2021-22 (P)**
IOCL#	5.41	0.08	5.64	8.52
BPCL	4.58	2.50	4.06	6.78
HPCL	5.01	1.02	3.86	4.50
CPCL	3.70	-1.18	7.14	6.28
MRPL	4.06	-0.23	3.71	5.80
NRL#	28.11	24.55	37.23	41.14
BORL	9.80	5.60	6.20	7.30
RIL	9.20	8.90	*	*
NEL	6.97	5.88	*	*

GRM of North Eastern refineries are including excise duty benefit

*Not available



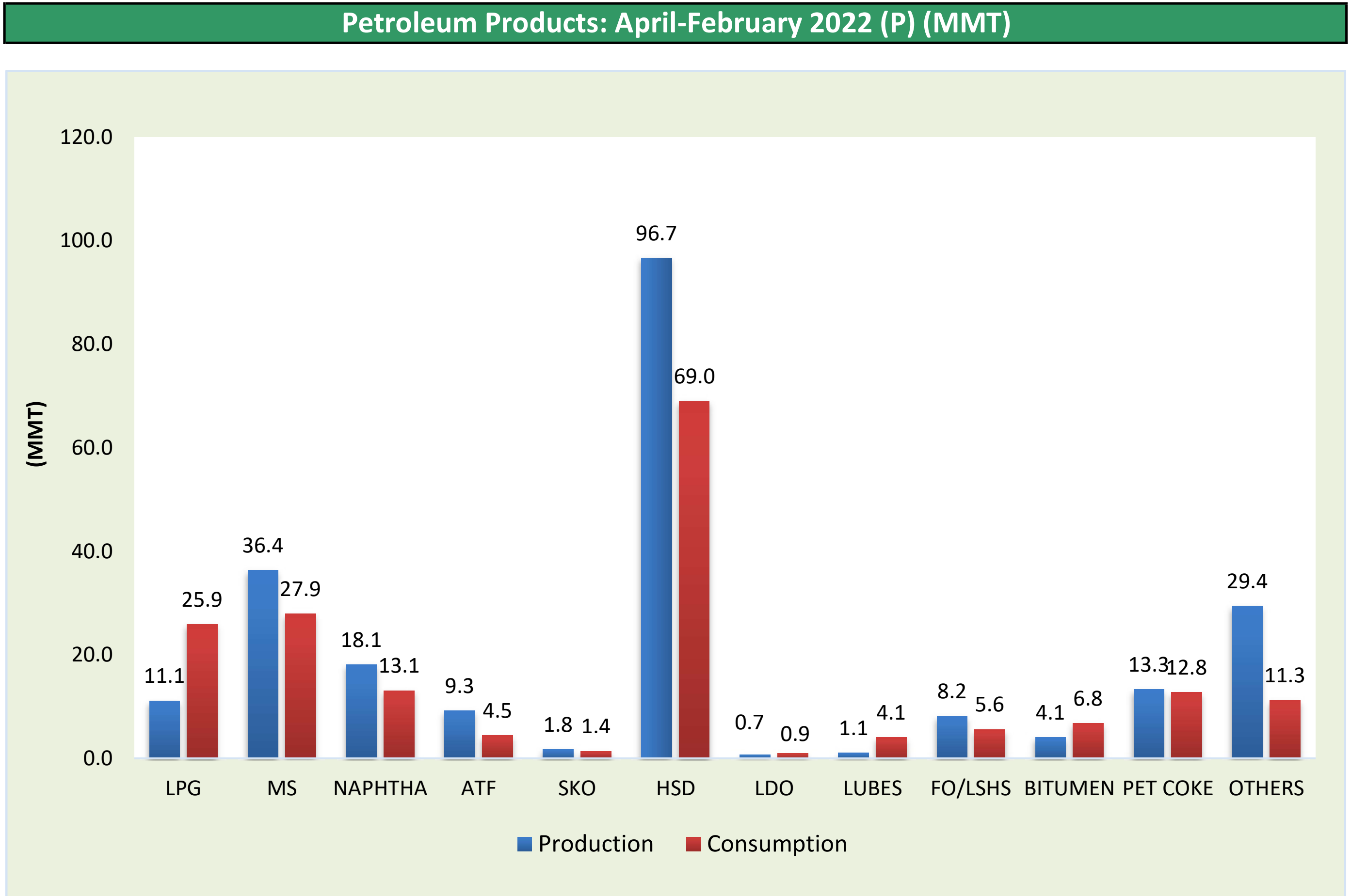
GRM of North Eastern refineries are including excise duty benefit

PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Products	**2019-20**		**2020-21**		**February 2021**		**February 2022 (P)**		**Apr-Feb 2021**		**Apr-Feb 2022 (P)**	
	Prod	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**
LPG	12.8	26.3	12.1	27.6	1.0	2.3	1.0	2.4	11.1	25.3	11.1	25.9
MS	38.6	30.0	35.8	28.0	3.0	2.5	3.3	2.5	32.2	25.2	36.4	27.9
NAPHTHA	20.6	14.3	19.4	14.1	1.6	1.2	1.7	1.2	17.5	12.8	18.1	13.1
ATF	15.2	8.0	7.1	3.7	0.8	0.4	0.9	0.4	6.2	3.2	9.3	4.5
SKO	3.2	2.4	2.4	1.8	0.1	0.1	0.2	0.1	2.2	1.6	1.8	1.4
HSD	111.1	82.6	100.4	72.7	8.4	6.6	8.8	6.5	90.9	65.5	96.7	69.0
LDO	0.6	0.6	0.7	0.9	0.06	0.08	0.08	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	0.9	3.7	1.1	4.1
FO/LSHS	9.3	6.3	7.4	5.6	0.6	0.5	0.7	0.5	6.6	5.1	8.2	5.6
BITUMEN	4.9	6.7	4.9	7.5	0.6	0.9	0.5	0.9	4.2	6.5	4.1	6.8
PET COKE	14.6	21.7	12.0	15.6	1.0	0.8	1.2	1.4	10.9	14.3	13.3	12.8
OTHERS	31.0	11.4	30.2	12.8	2.1	1.0	2.6	1.1	27.5	11.6	29.4	11.3
ALL INDIA	**262.9**	**214.1**	**233.5**	**194.3**	**19.4**	**16.7**	**21.2**	**17.6**	**211.0**	**175.7**	**230.2**	**183.3**
Growth (%)	**0.2%**	**0.4%**	**-11.2%**	**-9.3%**	**-10.9%**	**-7.9%**	**8.8%**	**5.4%**	**-12.1%**	**-11.4%**	**9.1%**	**4.3%**

Note: Prod - Production; Cons - Consumption



Petroleum Products: April-February 2022 (P) (MMT)
(MMT)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
11.1
25.9
36.4
27.9
18.1
13.1
9.3
4.5
1.8
1.4
96.7
69.0
0.7
0.9
1.1
4.1
8.2
5.6
4.1
6.8
13.3
12.8
29.4
11.3
LPG
MS
NAPHTHA
ATF
SKO
HSD
LDO
LUBES
FO/LSHS
BITUMEN
PET COKE
OTHERS
Production
Consumption

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	15,29,622

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

13. Ethanol blending programme					
Particulars	**Ethanol Supply Year ***				
	2018-19	**2019-20**	**2020-21**	**2021-22 (P)**	
				Feb-22	**Dec'21-Feb'22**
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	35.9	95.9
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	33.7	91.7
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	10.5%	9.3%

***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 01.03.2022) (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.),**^	34,039	19,904	19,895	1,454	6,533	320	31	**82,176**
out of which Rural ROs	10,821	4,736	4,911	130	2,109	81	3	**22,791**
SKO/LDO agencies **(Nos.)**	3,871	927	1,638					**6,436**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,792	6,199	6,227					**25,218**
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					**30.5**

$(Others=4 MRPL & 2 NRL); @(Others=ShellMRPL); ^(Others=31 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	February			April-February		
			2020-21	2021-22 (P)	Gr (%)	2020-21	2021-22 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	23,076.0	25,128.1	2,005.8	2,134.8	6.4	23,135.0	23,286.4	0.7
LPG-Packed Non-Domestic	2,614.4	1,886.0	201.6	213.6	6.0	1,683.4	2,032.2	20.7
LPG-Bulk	263.5	361.9	37.1	34.5	-7.1	321.2	351.4	9.4
Auto LPG	171.9	118.4	11.9	10.5	-11.6	105.9	111.1	4.9
Sub-Total (PSU Sales)	26,125.7	27,494.3	**2,256.4**	**2,393.4**	**6.1**	**25,245.5**	**25,781.1**	**2.1**
2. Direct Private Imports*	204.0	64.2	5.6	6.8	19.9	56.5	75.3	33.3
Total (1+2)	26,329.8	27,558.4	**2,262.0**	**2,400.2**	**6.1**	**25,302.0**	**25,856.4**	**2.2**

*Dec -Feb 2022 DGCIS data is prorated

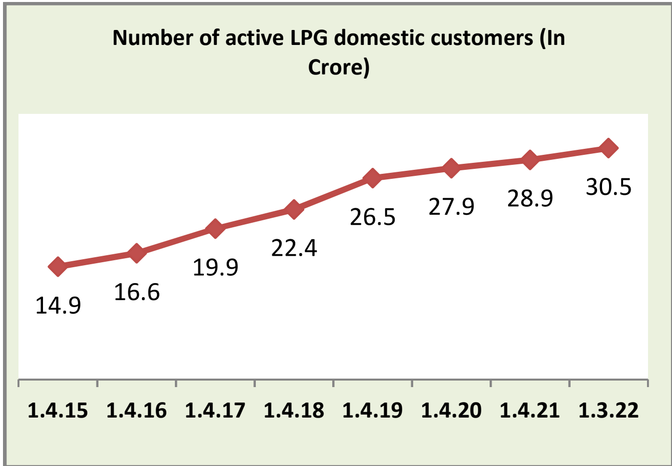
16. LPG marketing at a glance

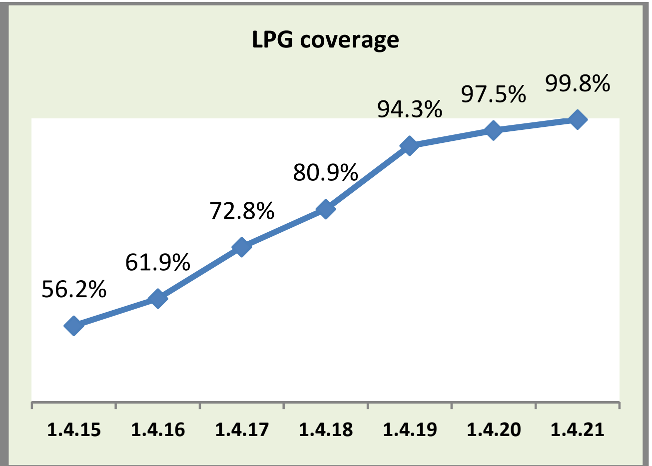
Particulars (As on 1st of April)	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1.03.22 (P)
LPG Active Domestic Customers	(Lakh)						1486	1663	1988	2243	2654	2787	2895	3049
	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%
LPG Coverage (Estimated)	(Percent)						56.2	61.9	72.8	80.9	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	25218
	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%	0.9%
Auto LPG Dispensing Stations	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	600
	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%	-8.7%
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%

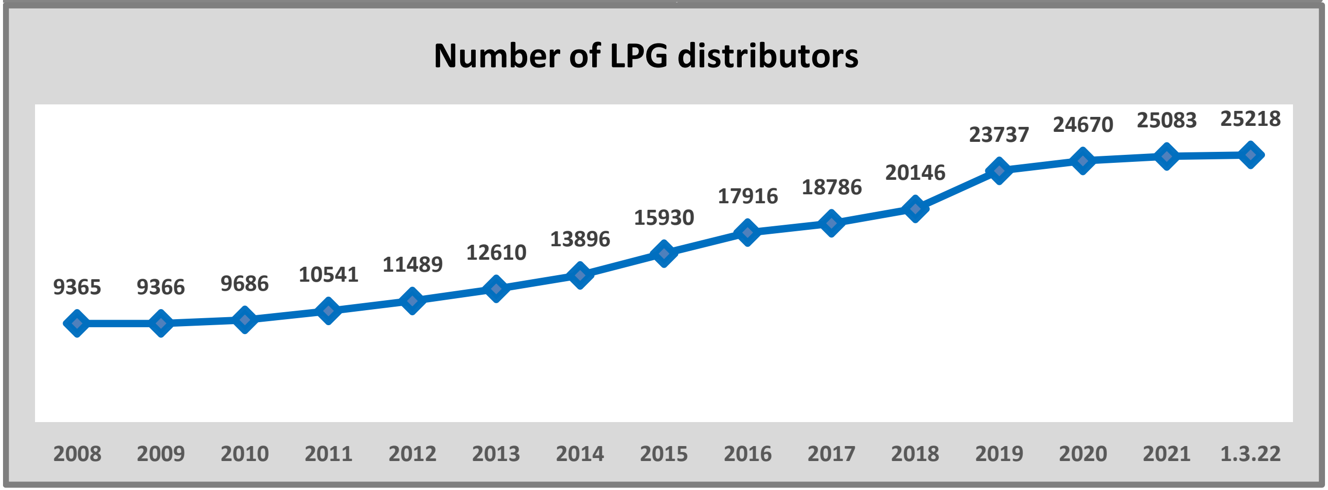
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.Growth rates as on 01.03.2022 are w.r.t. figs as on 01.03.2021. 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.

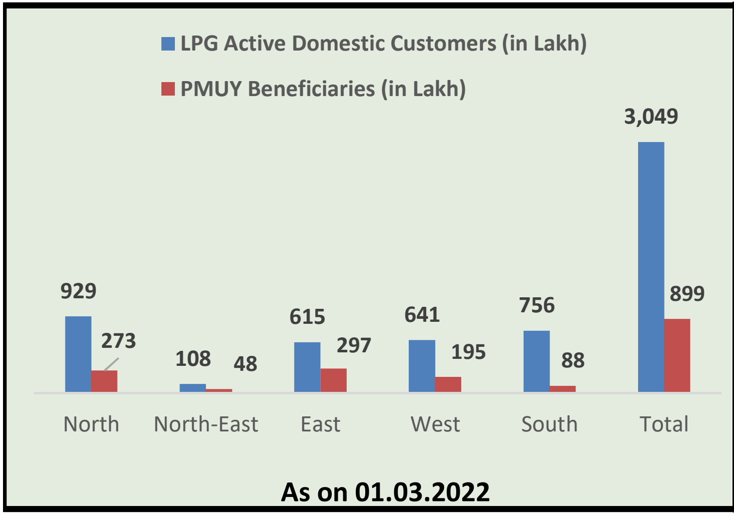

Number of active LPG domestic customers (In Crore)
14.9
16.6
19.9
22.4
26.5
27.9
28.9
30.5
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.4.20
1.4.21
1.3.22

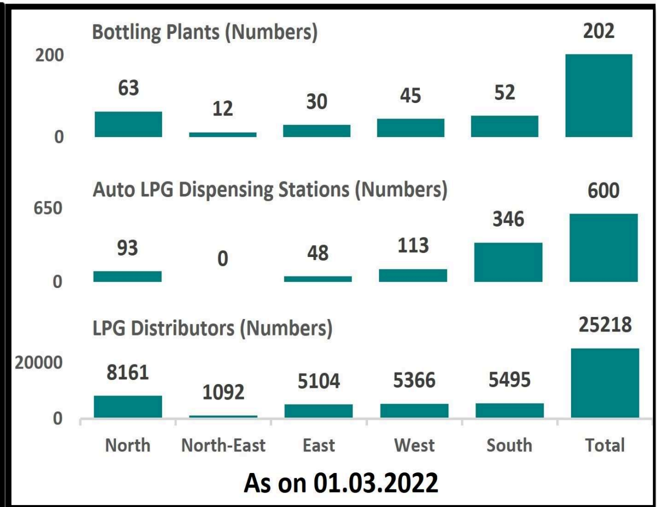

LPG coverage
56.2%
61.9%
72.8%
80.9%
94.3%
97.5%
99.8%
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.4.20
1.4.21


Number of LPG distributors
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24670
25083
25218
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
1.3.22

17-Region-wise data on LPG marketing (As on 01.03.2022)						
Particulars	**North**	**North-East**	**East**	**West**	**South**	**Total**
LPG Active Domestic Customers (in Lakh)	929.4	107.6	614.9	641.4	755.8	3049.1
PMUY Beneficiaries (in Lakh)	272.5	47.8	296.9	194.5	87.7	899.5
LPG Distributors (Numbers)	8161	1092	5104	5366	5495	25218
Auto LPG Dispensing Stations (Numbers)	93	0	48	113	346	600
Bottling Plants* (Numbers)	63	12	30	45	52	202

*Includes Numaligarh BP, Duliajan BP and CPCL BP.





PART-E

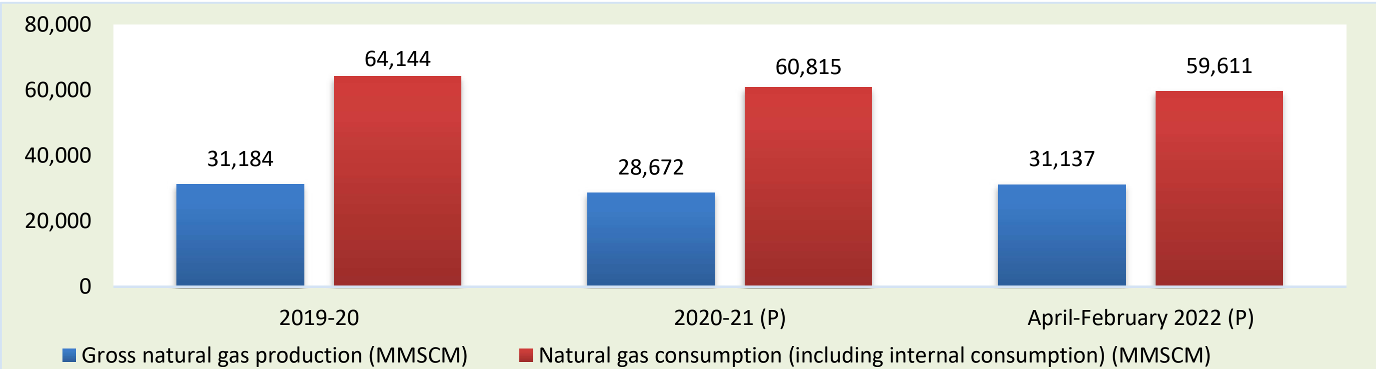
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2019-20	2020-21 (P)	February			April-February		
			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	2,307	3,105	2,602	25,987	34,667	31,137
- ONGC	23,746	21,872	1,630	1,820	1,582	20,041	21,309	18,873
- Oil India Limited (OIL)	2,668	2,480	188	226	219	2,270	2,699	2,642
- Private / Joint Ventures (JVs)	4,770	4,321	489	1,059	801	3,677	10,659	9,622
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,235		2,515	25,170		30,319
(c) LNG import#	33,887	33,031	2,520		2,507	30,198		29,293
(d) Total consumption including internal consumption (b+c)	64,144	60,815	4,755		5,023	55,368		59,611
(e) Total consumption **(in BCM)**	64.1	60.8	4.8		5.0	55.4		59.6
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.3	53.0		49.9	54.5		49.1

#Jul 2020-Feb 2022 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-February 2022 (P)	626.81	MMSCM
Production of CBM gas	February 2022 (P)	51.28	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 01.03.2022	% Capacity utilisation (Apr-Jan 2022)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	89.1
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	52.6
Dabhol	Konkan LNG Limited	*5 MMTPA	78.3
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	21.1
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	14.0
Mundra	GSPC LNG Limited	5 MMTPA	19.6
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 31.01.2022(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	108	223,416	343	25
Andhra Pradesh, Karnataka & Tamil Nadu	3	0	0	1
Assam	1	40,795	1,256	413
Bihar	33	64,576	22	1
Bihar & Jharkhand	0	4,143	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	21	22,316	77	14
Dadra & Nagar Haveli (UT)	7	8,127	49	50
Daman & Diu (UT)	4	4,888	32	34
Daman and Diu & Gujarat	13	355	1	0
Goa	10	9,763	9	21
Gujarat	884	2,621,564	20,942	5,679
Haryana	224	232,639	662	1,165
Haryana & Himachal Pradesh	9	0	0	0
Haryana & Punjab	11	0	0	0
Himachal Pradesh	5	1,995	0	0
Jharkhand	38	70,352	0	0
Karnataka	115	322,070	485	244
Kerala	56	17,092	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	133	136,140	213	323
Madhya Pradesh and Rajasthan	18	0	0	0
Madhya Pradesh and Uttar Pradesh	10	0	0	0
Maharashtra	516	2,247,283	4,641	494
Maharashtra & Gujarat	45	90,539	0	0
National Capital Territory of Delhi (UT)	444	1,200,776	3,033	1,676
Odisha	28	49,064	1	0
Puducherry & Tamil Nadu	4	0	0	0
Punjab	136	28,149	167	100
Rajasthan	146	109,334	24	142
Tamil Nadu	84	0	0	2
Telangana	112	156,309	43	70
Tripura	18	53,522	501	62
Uttar Pradesh	551	1,105,790	1,755	2,093
Uttar Pradesh & Rajasthan	31	18,958	6	337
Uttar Pradesh and Uttrakhand	10	800	0	0
Uttrakhand	18	57,377	39	58
West Bengal	30	0	0	0
Total	**3,878**	**8,898,132**	**34,316**	**13,016**

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	58.01	35.61	IGL website (16.03.2022)
Mumbai	66.00	39.50	MGL website (16.03.2022)

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	February 2022
Crude oil (Indian Basket)	60.47	44.82	94.07
Petrol	66.94	47.68	108.29
Diesel	71.78	47.86	108.70
Kerosene	70.56	43.60	104.25
LPG ($/MT)	453.75	415.17	775.00
FO ($/MT)	321.19	259.30	509.52
Naphtha ($/MT)	471.08	378.93	832.03
Exchange (Rs./$)	70.88	74.20	75.00

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	5%^^	Not Applicable	5.00%
Non-PDS SKO	5.00%		18.00%
Domestic LPG	Nil***		5.00%
Non Domestic LPG	5.00%		18.00%
Furnace Oil (Non-Fert)	2.5%^^		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

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

Particulars	Petrol*	Diesel*
Price charged to dealers (excluding Excise Duty and VAT)	48.24	49.62
Excise Duty	27.90	21.80
Dealers' Commission (Average)	3.77	2.57
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	55.82	794.81
Dealers'/distributors' commission	2.64	61.84
GST (incl GST on dealers'/distributors' commission)	2.92	42.85
Retail Selling Price	**61.38**	**899.50**

*Petrol and Diesel at Delhi as per IOCL are as on 1st March 2022. PDS SKO at Mumbai as on 1st March 2022 and Subsidised Domestic LPG at Delhi as on 1st March 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 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
	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 (9M)	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	132,830	17,878	149,920	41,384
Downstream Companies (PSU)	1,080,618	51,542	10,96,218	29,408
Standalone Refineries (PSU)	111,330	3,033	114,040	3,418
Private-RIL	278,940	31,944	326,364	27,990

Borrowings of OMCs (Rs. Crores), As on

Company	Mar`20	Mar`21	Dec`21
IOCL	116,545	102,327	88,323
BPCL	41,875	26,315	24,164
HPCL	43,021	40,009	37,250

Petroleum sector contribution to Central/State Govt.

Particulars	2019-20	2020-21	2021-22 (9M)
Central Government	3,34,315	455,069	354,264
% of total revenue receipts	20%	29%	
State Governments	2,21,056	217,650	207,658
% of total revenue receipts	8%	7%	
Total (Rs. Crores)	**5,55,370**	**6,72,719**	**561,922**

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-February
ONGC Ltd	28,738	30,115	26,441	29,800	22,197
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	4,535
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	3,864
GAIL (India) Ltd	5,958	4,381	5,560	5,861	5,881
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	25,698
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	12,941
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	10,360
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	494
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	548
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	2,708
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	17
Engineers India Ltd (EIL)	87	164	730	150	60
Total	**95,684**	**98,955**	**106,642**	**104,620**	**89,304**

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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