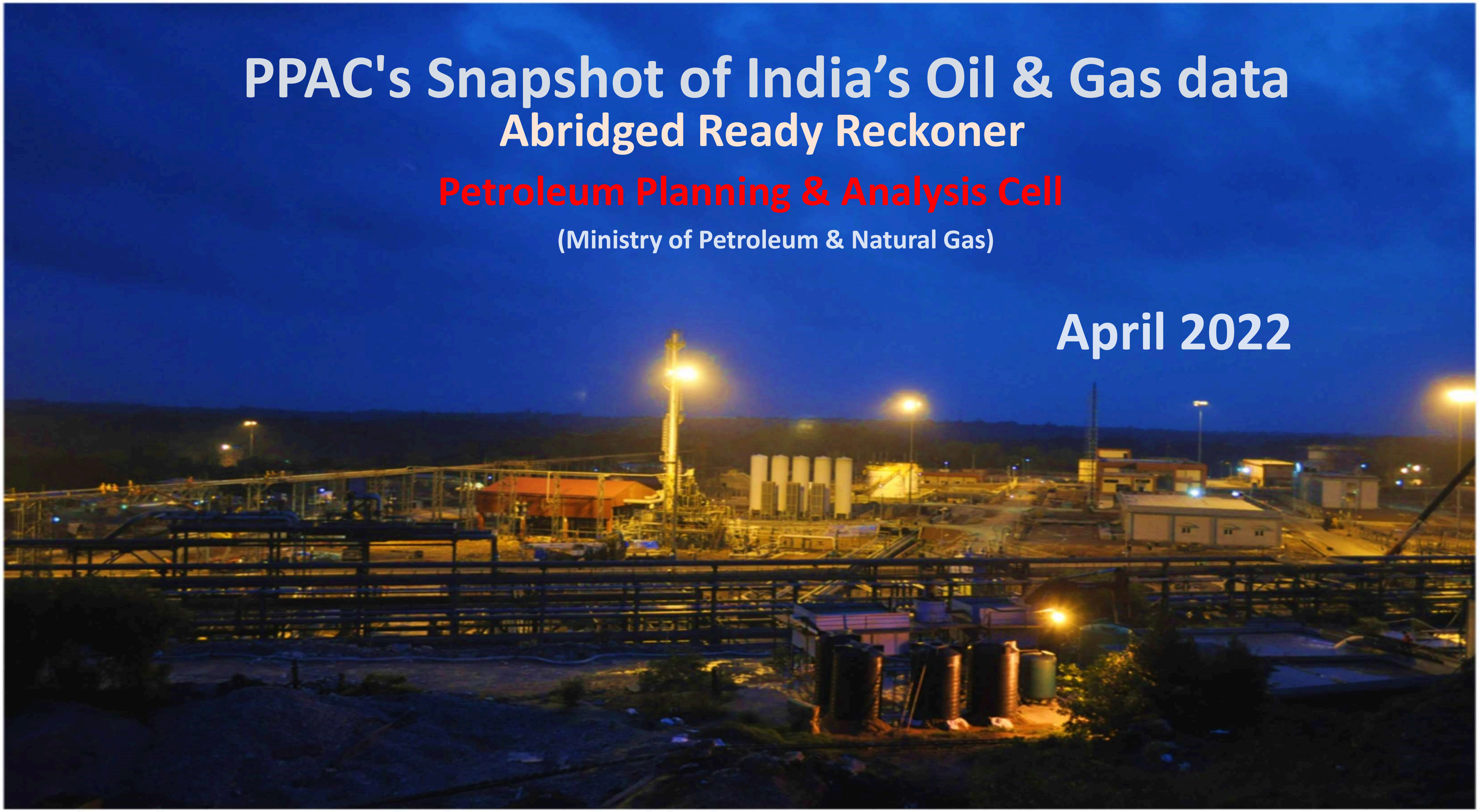
PPAC's Snapshot of India's Oil & Gas data

Abridged Ready Reckoner

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

April 2022



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Abridged Ready Reckoner

April, 2022

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 23.05.2022

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 2022 with a volume of 18.7 MMT reported a growth of 12.3% compared to the volume of 16.6 MMT during the same period of the previous year. Except SKO, Naptha, LDO & bitumen, all petroleum products reported a growth in consumption during April 2022 compared to the same period of the previous year.
- Indigenous crude oil and condensate production during April 2022 was lower by 0.9 % than that of April 2021 as compared to a de-growth of 3.4 % during March 2021. OIL registered a growth of 3.6 % and ONGC registered a growth of 0.9 % during April 2022 as compared to April 2021. PSC registered de-growth of 7.6 % during April 2022 as compared to the same period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of April 2022 was 5218 MMSCM which was 3.9% lower than the corresponding month of the previous year.
- Crude oil processed during April 2022 was 21.6 MMT, which was 8.5 % higher than April 2021 as compared to a growth of 6.4 % during March 2021.
- Production of petroleum products saw a growth of 9.2 % during April 2022 over April 2021 as compared to a growth of 5.8 % during March 2021.
- Ethanol blending with Petrol was 10.7% during March 2022 and cumulative ethanol blending during December 2021- March 2022 was 9.9%.

•	Gross production of natural gas for the month of April 2022 was 2827 MMSCM which was higher by 6.6% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 2827 MMSCM for the current financial year till April 2022 was higher by 6.6% compared with the corresponding period of the previous year.
•	LNG import for the month of April 2022 (P) was 2471 MMSCM which was 13.2 % lower than the corresponding month of the previous year. The cumulative import of 2471 MMSCM for the current year till March 2022 was lower by 13.2% compared with the corresponding period of the previous year.
•	Crude oil imports increased by 14.3% during April 2022 as compared to the corresponding period of the previous year.
•	POL products imports increased by 23.7% during April 2022 as compared to the corresponding period of the previous year. Increase in POL products imports during April 2022 were due to increase in imports all products except motor spirit (MS), LOBS/Lubes oil and bitumen etc.
•	Exports of POL products increased by 36.9% during April 2022 as compared to the corresponding period of the previous year. Increase in POL products exports during April 2022 were due to increase in exports of all products except fuel oil (FO), bitumen, vacuum gas oil (VGO) etc.
•	The price of Brent Crude averaged $104.39/bbl during April 2022 as against $118.81/bbl during March 2022 and $64.70/bbl during April 2021. The Indian basket crude price averaged $102.97/bbl during April 2022 as against $112.87/bbl during March 2022 and $63.40 /bbl during April 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

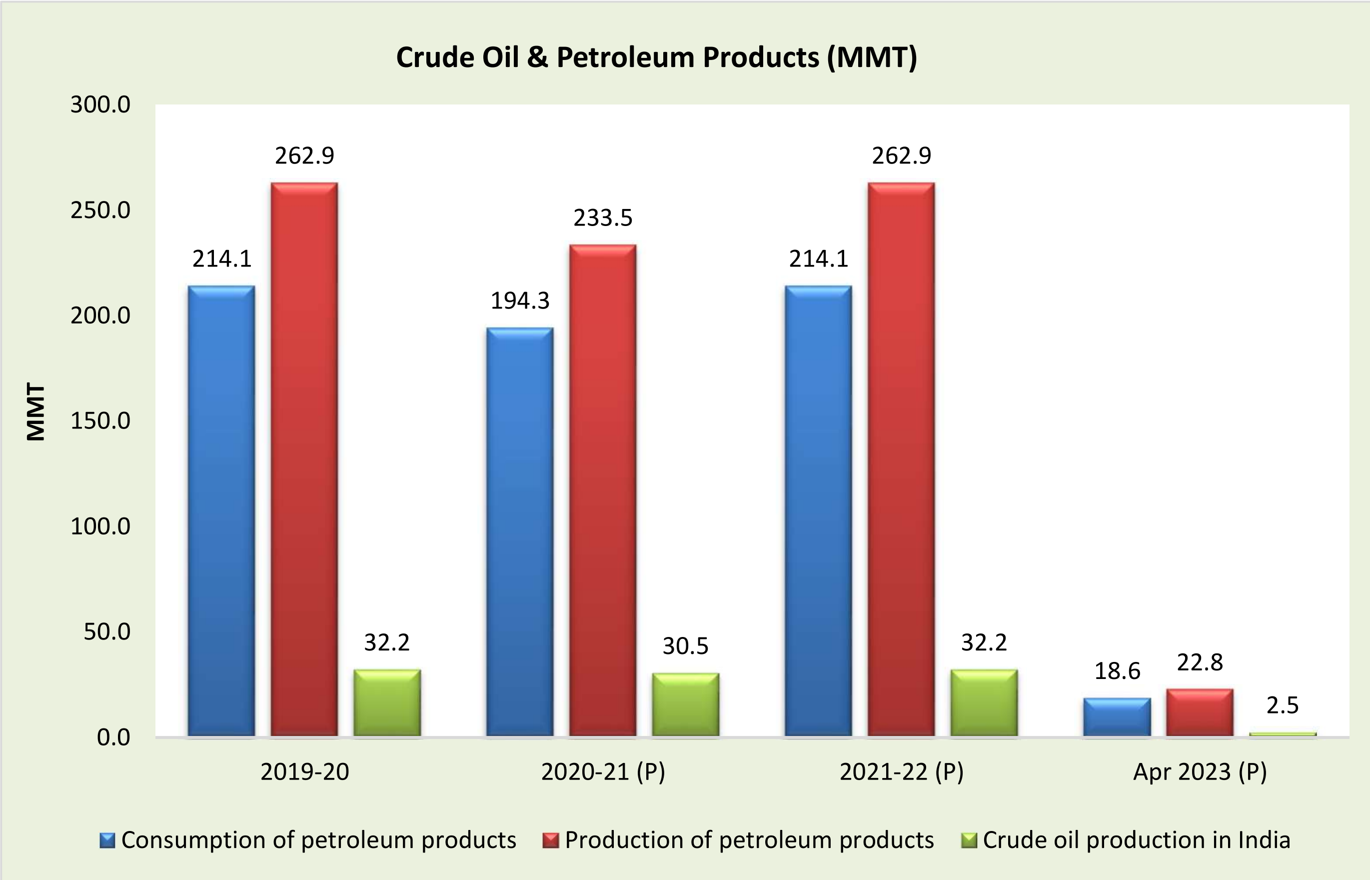
	Economic indicators	Unit/ Base	2018-19	2019-20	2020-21	2021-22 (P)	April	
							2021-22	2022-23 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	3.8	-0.8	-8.4	11.3# QE	24.2*	1.9* QE
6	Imports^	$ Billion	514.1	474.7	394.4	60.7	46.0	60.3
7	Exports^	$ Billion	330.1	313.4	291.8	42.2	30.8	40.2
8	Trade Balance	$ Billion	-184.0	-161.3	-102.6	-18.5	-15.3	-20.1
9	Foreign Exchange Reserves @	$ Billion	411.9	475.6	579.3	617.6	588.0	597.7

IIP is for the month of *March and #April-March; @2019-20-as on March 27, 2020, 2020-21-as on March 26, 2021, 2021-22 as on March 26, 2021, April 2021 as on April 30, 2021 and April 2022-as on April 29, 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)	2021-22 (P)	April	
						2021-22 (P)	2022-23 (P)
1	Crude oil production in India#	MMT	32.2	30.5	29.7	2.5	2.5
2	Consumption of petroleum products*	MMT	214.1	194.3	202.7	16.6	18.6
3	Production of petroleum products	MMT	262.9	233.5	254.2	20.9	22.8
4	Gross natural gas production	MMSCM	31,184	28,672	34,024	2,652	2,827
5	Natural gas consumption	MMSCM	64,143	60,815	65,037	5,431	5,218
6	Imports & exports:						
	Crude oil imports	MMT	227.0	196.5	212.0	18.3	20.9
		$ Billion	101.4	62.2	120.4	8.6	16.2
	Petroleum products (POL) imports*	MMT	43.8	43.2	40.5	3.1	3.8
		$ Billion	17.7	14.8	24.5	1.6	2.8
	Gross petroleum imports (Crude + POL)	MMT	270.7	239.7	252.5	21.3	24.7
		$ Billion	119.1	77.0	145.0	10.1	19.0
	Petroleum products (POL) export	MMT	65.7	56.8	62.7	3.9	5.4
		$ Billion	35.8	21.4	44.4	2.2	5.7
	LNG imports*	MMSCM	33,887	33,031	31,906	2,847	2,471
		$ Billion	9.5	7.9	13.7	0.8	1.3
	Net oil & gas imports	$ Billion	92.7	63.5	114.2	8.7	14.6
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	238.7	22.0	31.5
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	105.2	7.0	14.3
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	85.6	85.9	86.4

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



Crude Oil & Petroleum Products (MMT)
MMT
300.0
250.0
200.0
150.0
100.0
50.0
0.0
214.1
262.9
32.2
194.3
233.5
30.5
214.1
262.9
32.2
18.6
22.8
2.5
2019-20
2020-21 (P)
2021-22 (P)
Apr 2023 (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	2021-22	April		
				2021-22 (P)	2022-23 Target*	2022-23 (P)
ONGC	19.2	19.1	18.5	1.5	1.6	1.6
Oil India Limited (OIL)	3.1	2.9	3.0	0.2	0.3	0.3
Private / Joint Ventures (JVs)	8.2	7.1	7.0	0.6	0.6	0.5
Total Crude Oil	**30.5**	**29.1**	**28.4**	**2.4**	**2.4**	**2.4**
ONGC condensate	1.4	1.1	0.9	0.09	0.0	0.1
PSC condensate	0.3	0.3	0.30	0.02	0.0	0.02
Total condensate	**1.6**	**1.4**	**1.2**	**0.11**	**0.0**	**0.1**
Total (Crude + Condensate) (MMT)	**32.2**	**30.5**	**29.7**	**2.5**	**2.4**	**2.5**
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.60	0.61	0.58	0.60

*Provisional targets inclusive of condensate.

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

Details	2019-20	2020-21	2021-22 (P)	April	
				2021-22 (P)	2022-23 (P)
Total domestic production (MMTOE)	63.4	59.2	63.7	5.1	5.3
Overseas production (MMTOE)	24.5	21.9	21.7	1.8	1.7
Overseas production as percentage of domestic production	**38.7%**	**37.0%**	**34.1%**	**35.4%**	**32.8%**

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

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

Details		2019-20	2020-21	2021-22 (P)	April	
					2021-22 (P)	2022-23 (P)
1	High Sulphur crude	192.4	161.4	185.0	15.0	16.5
2	Low Sulphur crude	62.0	60.3	56.7	4.8	5.1
Total crude processed (MMT)		**254.4**	**221.8**	**241.7**	**19.9**	**21.6**
Total crude processed (Million Bbl/Day)		5.09	4.45	4.85	4.86	5.27
Percentage share of HS crude in total crude oil processing		**75.6%**	**72.8%**	**76.6%**	**75.6%**	**76.6%**

6. Quantity and value of crude oil imports			
Year	**Quantity (MMT)**	**$ Million**	**Rs. Crore**
2020-21	196.5	62,248	4,59,779
2021-22	212.0	120,445	8,99,312
April 2022(P)	20.9	16,202	1,23,586

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		**2018-19**	**2019-20**	**2020-21**	**2021-22 (P)**	**April**	
						2021-22	**2022-23 (P)**
1	Indigenous crude oil processing	31.7	29.3	28.0	27.0	2.1	2.4
2	Products from indigenous crude (93.3% of crude oil processed)	29.6	27.3	26.1	25.2	2.0	2.3
3	Products from fractionators (Including LPG and Gas)	4.9	4.8	4.2	4.1	0.4	0.3
4	Total production from indigenous crude & condensate **(2 + 3)**	34.5	32.1	30.3	29.3	2.3	2.5
5	Total domestic consumption	214.1	214.1	194.3	202.7	16.6	18.6
% Self-sufficiency (4 / 5)		**16.1%**	**15.0%**	**15.6%**	**14.4%**	**14.1%**	**13.6%**

8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)									
Sl. no.	Refinery	Installed capacity (01.01.2022) MMTPA	Crude oil processing (MMT)						
			2018-19	2019-20	2020-21	2021-22 (P)	April		
							2021-22 (P)	2022-23 (Target)	2022-23 (P)
1	Barauni (1964)	6.0	6.7	6.5	5.5	5.6	0.5	0.5	0.6
2	Koyali (1965)	13.7	13.5	13.1	11.6	13.5	1.0	1.2	1.3
3	Haldia (1975)	8.0	8.0	6.5	6.8	7.3	0.7	0.7	0.7
4	Mathura (1982)	8.0	9.7	8.9	8.9	9.1	0.8	0.8	0.8
5	Panipat (1998)	15.0	15.3	15.0	13.2	14.8	1.3	1.2	1.2
6	Guwahati (1962)	1.0	0.9	0.9	0.8	0.7	0.06	0.1	0.1
7	Digboi (1901)	0.65	0.7	0.7	0.6	0.7	0.1	0.1	0.1
8	Bongaigaon(1979)	2.70	2.5	2.0	2.5	2.6	0.2	0.2	0.2
9	Paradip (2016)	15.0	14.6	15.8	12.5	13.2	1.3	1.3	1.3
	IOCL-TOTAL	**70.1**	**71.8**	**69.4**	**62.4**	**67.7**	**6.0**	**6.1**	**6.2**
10	Manali (1969)	10.5	10.3	10.2	8.2	9.0	0.8	0.9	0.9
11	CBR (1993)	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL-TOTAL	**10.5**	**10.7**	**10.2**	**8.2**	**9.0**	**0.8**	**0.9**	**0.9**
12	Mumbai (1955)	12.0	14.8	15.0	12.9	14.4	1.2	1.3	1.3
13	Kochi (1966)	15.5	16.1	16.5	13.3	15.4	1.4	1.4	1.3
14	Bina (2011)	7.8	5.7	7.9	6.2	7.4	0.6	0.7	0.7
	BPCL-TOTAL	**35.3**	**36.5**	**39.4**	**32.4**	**37.2**	**3.2**	**3.3**	**3.3**
15	Numaligarh (1999)	3.0	2.9	2.4	2.7	2.6	0.2	0.2	0.3

Sl. no.	Refinery	Installed capacity (01.01.2022) MMTPA	Crude oil processing (MMT)						
			2018-19	2019-20	2020-21	2021-22 (P)	April		
							2021-22 (P)	2022-23 (Target)	2022-23 (P)
16	Tatipaka (2001)	0.066	0.066	0.087	0.081	0.075	0.007	0.005	0.006
17	MRPL-Mangalore (1996)	15.0	16.2	14.0	11.5	14.9	1.1	1.4	1.5
	ONGC-TOTAL	**15.1**	**16.3**	**14.0**	**11.6**	**14.9**	**1.1**	**1.4**	**1.5**
18	Mumbai (1954)	7.5	8.7	8.1	7.4	5.6	0.0	0.7	0.7
19	Visakh (1957)	8.3	9.8	9.1	9.1	8.4	0.8	0.8	0.8
20	HMEL-Bathinda (2012)	11.3	12.5	12.2	10.1	13.0	1.1	1.0	1.0
	HPCL- TOTAL	**27.1**	**30.9**	**29.4**	**26.5**	**27.0**	**1.9**	**2.5**	**2.6**
21	RIL-Jamnagar (DTA) (1999)	33.0	31.8	33.0	34.1	34.8	2.8	2.8	3.0
22	RIL-Jamnagar (SEZ) (2008)	35.2	37.4	35.9	26.8	28.3	2.2	2.2	2.1
23	NEL-Vadinar (2006)	20.0	18.9	20.6	17.1	20.2	1.6	1.6	1.7
All India (MMT)		**249.2**	**257.2**	**254.4**	**221.8**	**241.7**	**19.9**	**21.0**	**21.6**
All India (Million Bbl/Day)		**5.01**	**5.17**	**5.09**	**4.45**	**4.85**	**4.86**	**5.14**	**5.27**

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 01.05.2022)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,284	1,193	688	1,017	5,301	937			**10,420**
	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

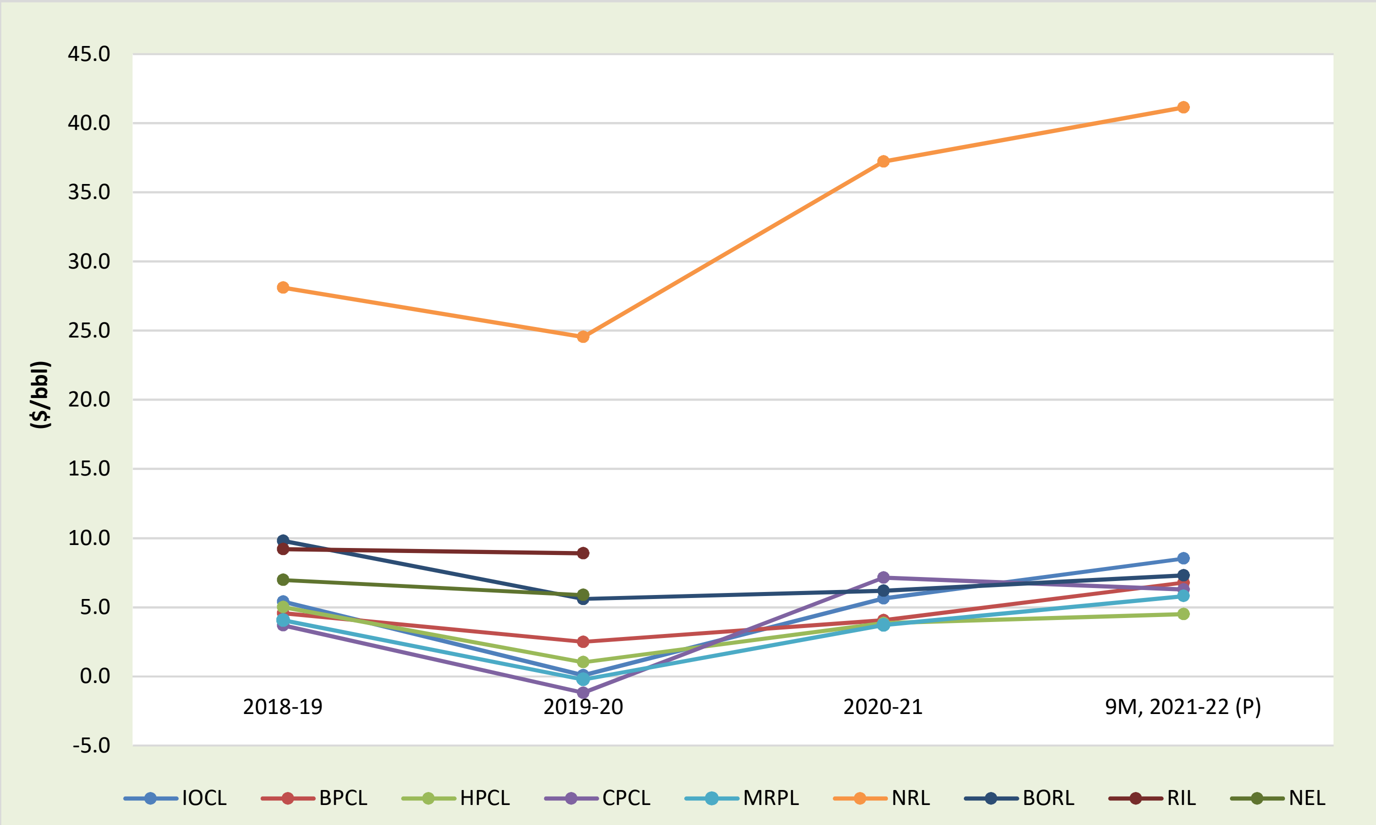
10. Gross Refining Margins (GRM) of refineries ($/bbl)

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

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



GRM of North Eastern refineries are including excise duty benefit

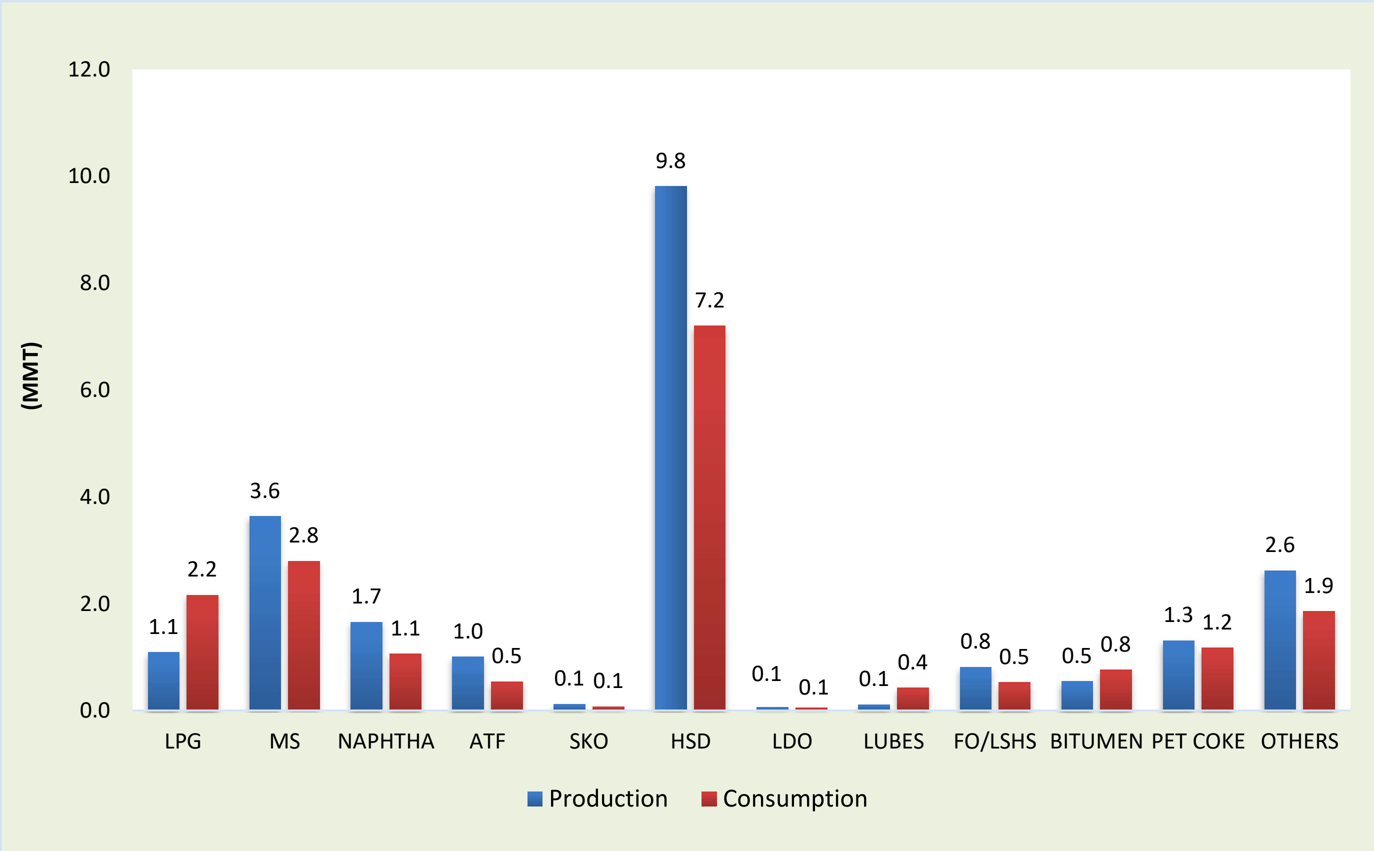
PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Products	**2018-19**		**2019-20**		**2020-21 (P)**		**2021-22 (P)**		**Apr 2021**		**Apr 2022 (P)**	
	Prod	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**	**Prod**	**Cons**
LPG	12.8	24.9	12.8	26.3	12.1	27.6	12.2	28.3	1.0	2.1	1.1	2.2
MS	38.0	28.3	38.6	30.0	35.8	28.0	40.2	30.9	3.2	2.4	3.6	2.8
NAPHTHA	19.6	14.1	20.6	14.3	19.4	14.1	19.9	14.3	1.7	1.2	1.7	1.1
ATF	15.5	8.3	15.2	8.0	7.1	3.7	10.3	5.0	0.8	0.4	1.0	0.5
SKO	4.1	3.5	3.2	2.4	2.4	1.8	1.9	1.5	0.2	0.1	0.1	0.1
HSD	110.6	83.5	111.1	82.6	100.4	72.7	107.1	76.7	8.8	6.7	9.8	7.2
LDO	0.7	0.6	0.6	0.6	0.7	0.9	0.8	1.0	0.1	0.1	0.1	0.1
LUBES	0.9	3.7	0.9	3.8	1.1	4.1	1.2	4.5	0.1	0.4	0.1	0.4
FO/LSHS	10.0	6.6	9.3	6.3	7.4	5.6	8.9	6.2	0.5	0.5	0.8	0.5
BITUMEN	5.6	6.7	4.9	6.7	4.9	7.5	4.7	7.7	0.5	0.8	0.5	0.8
PET COKE	13.7	21.3	14.6	21.7	12.0	15.6	14.7	14.1	1.1	1.0	1.3	1.2
OTHERS	31.0	11.7	31.0	11.4	30.2	12.8	32.1	12.5	2.9	0.9	2.6	1.9
ALL INDIA	**262.4**	**213.2**	**262.9**	**214.1**	**233.5**	**194.3**	**254.2**	**202.7**	**20.9**	**16.6**	**22.8**	**18.6**
Growth (%)	**3.2%**	**3.4%**	**0.2%**	**0.4%**	**-11.2%**	**-9.3%**	**8.9%**	**4.3%**	**30.9%**	**77.1%**	**9.2%**	**12.3%**

Note: Prod - Production; Cons - Consumption

Petroleum Products: April 2022 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2019-20		2020-21		2021-22 (P)*		2022-23 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	31,21,328	27,93,217	23,15,008	20,38,790	17,83,344	16,59,906	3,74,244	78,970

* Allocation is for Q1, 2022-23 and upliftment is for April 2022

13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2018-19	2019-20	2020-21	2021-22 (P)	
				Apr-22	Dec'21-Apr'22
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	40.1	179.1
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	38.5	170.5
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	10.7%	9.9%

***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 01.05.2022) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**$	119	81	81	18	3		6	**308**
Aviation Fuel Stations **(Nos.)**@	126	60	52	30			2	**270**
Retail Outlets (total) **(Nos.),**^	34,616	20,088	20,083	1,459	6,604	324	34	**83,208**
out of which Rural ROs	11,057	4,883	4,942	130	2,148	84	3	**23,247**
SKO/LDO agencies **(Nos.)**	3,871	927	1,638					**6,436**
LPG Distributors (total) **(Nos.) (PSUs only)**	12,819	6,220	6,243					**25,282**
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)**	14.3	7.9	8.5					**30.7**

$(Others=4 MRPL & 2 NRL); @(Others=ShellMRPL); ^(Others=34 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	2018-19	2019-20	2020-21	2021-22 (P)	April 2021-22	April 2022-23 (P)	April Growth (%)
1. PSU Sales :							
LPG-Packed Domestic	21,728.0	23,076.0	25,128.1	25,501.6	1,923.6	1,954.9	1.6
LPG-Packed Non-Domestic	2,364.4	2,614.4	1,886.0	2,238.8	143.4	162.4	13.2
LPG-Bulk	318.1	263.5	361.9	390.9	25.7	30.8	19.8
Auto LPG	180.3	171.9	118.4	122.0	9.4	9.4	-0.1
Sub-Total (PSU Sales)	24,590.8	**26,125.7**	**27,494.3**	**28,253.3**	**2,102.1**	**2,157.5**	**2.6**
2. Direct Private Imports*	316.0	204.0	64.2	82.0	11.8	6.8	-42.4
Total (1+2)	24,906.8	**26,329.8**	**27,558.4**	**28,335.3**	**2,113.9**	**2,164.3**	**2.4**

*Dec -Apr 2022 DGCIS data is prorated

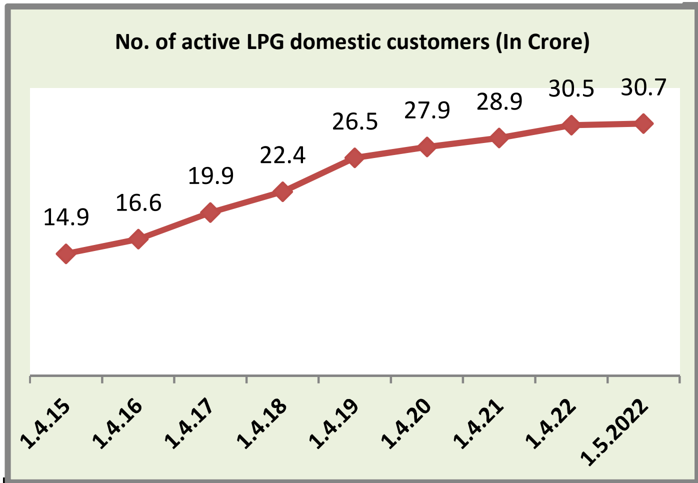
16. LPG marketing at a glance

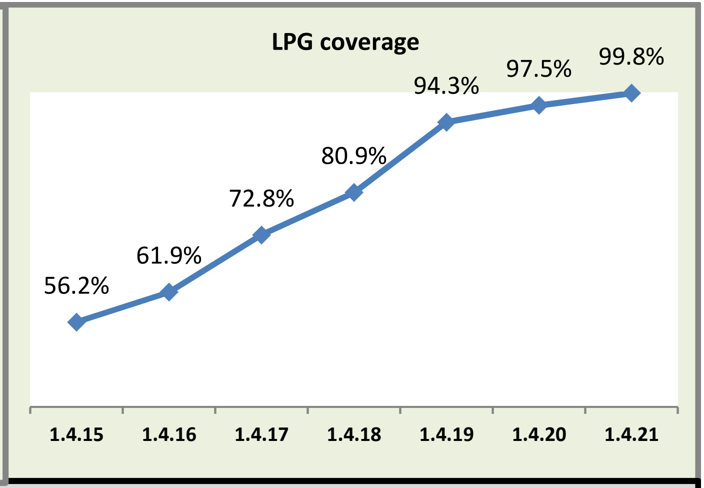
Particulars (As on 1st of April)	Unit	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1.05.22 (P)
LPG Active Domestic Customers	(Lakh)					1486	1663	1988	2243	2654	2787	2895	3053	3071
	Growth						11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.5%	5.9%
LPG Coverage (Estimated)	(Percent)					56.2	61.9	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	899.0	921.0
	Growth								77.7%	101.9%	11.5%	-0.2%	12.2%	14.9%
LPG Distributors	(No.)	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25269	25282
	Growth	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	0.7%	0.7%
Auto LPG Dispensing Stations	(No.)	604	652	667	678	681	676	675	672	661	657	651	601	601
	Growth	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-8.5%	-8.5%
Bottling Plants	(No.)	183	184	185	187	187	188	189	190	192	196	200	202	202
	Growth	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	1.0%	1.0%

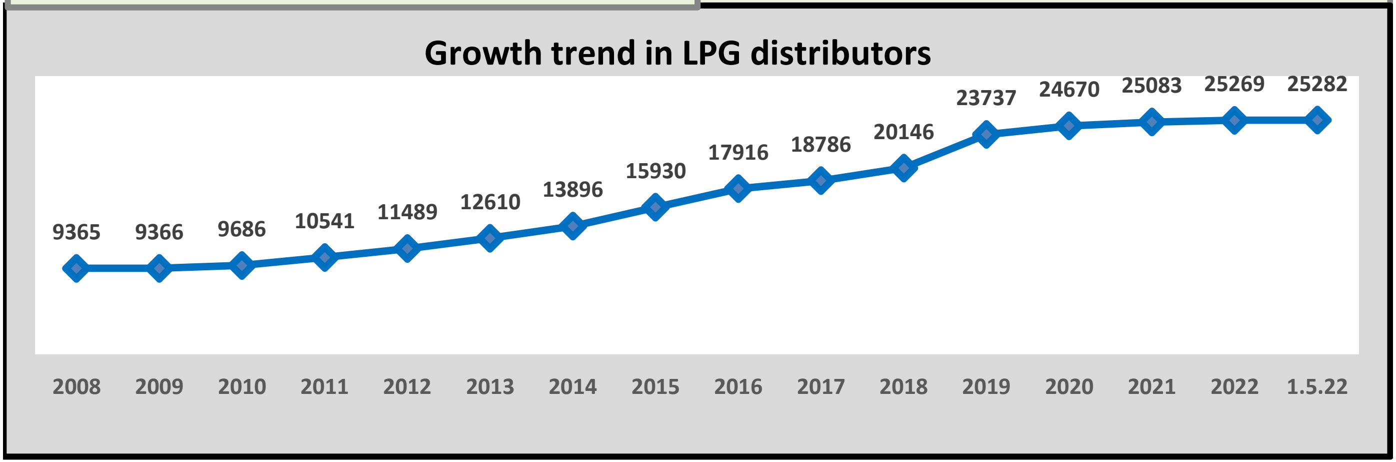
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.Growth rates as on 01.05.2022 are with respect to figs as on 01.05.2021. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

2. The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families due to urbanization and reduction in average size of households etc. impact the growth of number of households. Due to these factors, the estimated no. of households through projection of 2011 census data may slightly differ from the actual no. of households in a State/UT. Further, this methodology does not include PNG (domestic) connections.

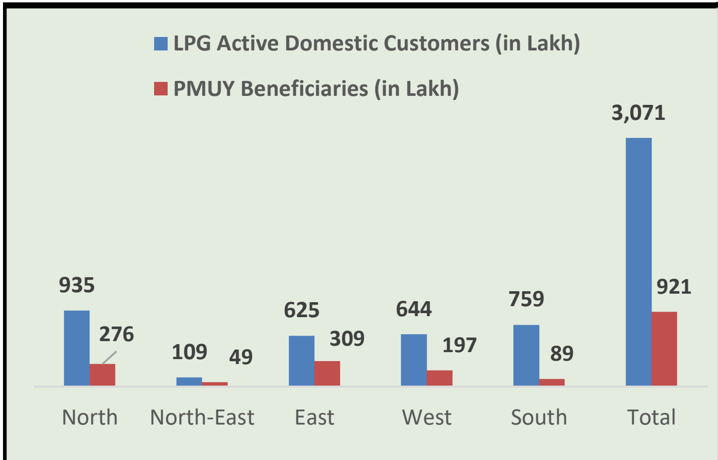

No. of active LPG domestic customers (In Crore)
14.9
16.6
19.9
22.4
26.5
27.9
28.9
30.5
30.7
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.4.20
1.4.21
1.4.22
1.5.2022


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

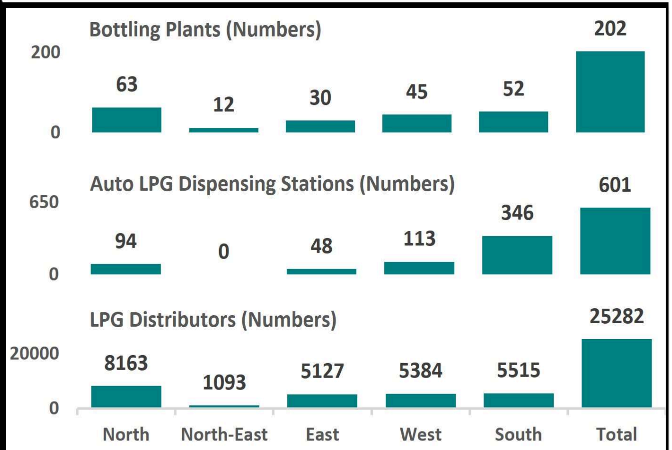

Growth trend in LPG distributors
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24670
25083
25269
25282
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
1.5.22

17-Region-wise data on LPG marketing (As on 01.05.2022)						
Particulars	**North**	**North-East**	**East**	**West**	**South**	**Total**
LPG Active Domestic Customers (in Lakh)	934.5	109.0	624.7	643.9	759.2	3071.3
PMUY Beneficiaries (in Lakh)	276.3	49.2	309.3	196.9	89.3	921.0
LPG Distributors (Numbers)	8163	1093	5127	5384	5515	25282
Auto LPG Dispensing Stations (Numbers)	94	0	48	113	346	601
Bottling Plants* (Numbers)	63	12	30	45	52	202

*Includes Numaligarh BP, Duliajan BP and CPCL BP.



As on 01.05.2022



As on 01.05.2022

PART-E

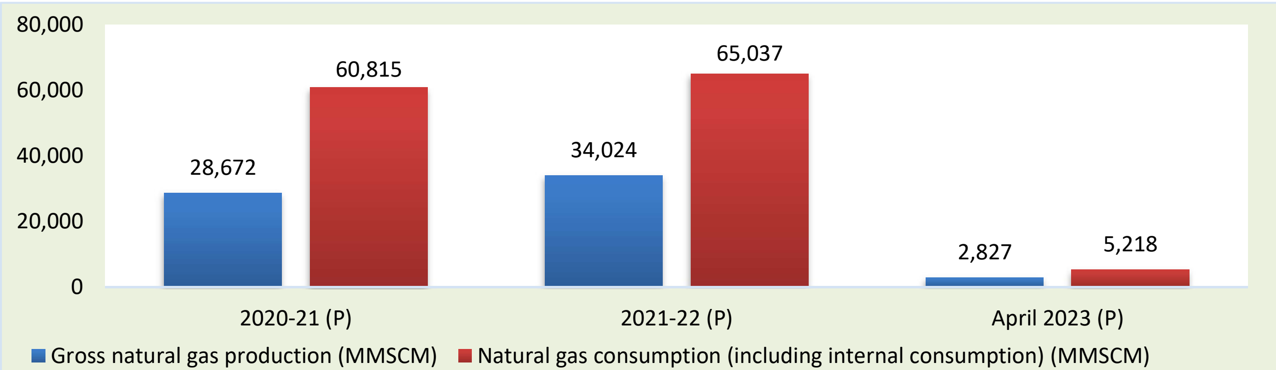
Natural Gas

18. Natural gas at a glance

(MMSCM)

Details	2018-19	2019-20	2020-21 (P)	2021-22 (P)	April 2021-22 (P)	April 2022-23 (Target)	April 2022-23 (P)
(a) Gross production	32,875	31,184	28,672	34,024	2,652	2,893	2,827
- ONGC	24,677	23,746	21,872	20,629	1,725	1,697	1,708
- Oil India Limited (OIL)	2,722	2,668	2,480	2,893	215	304	245
- Private / Joint Ventures (JVs)	5,477	4,770	4,321	10,502	711	892	874
(b) Net production (excluding flare gas and loss)	32,058	30,257	27,784	33,131	2,583		2,748
(c) LNG import#	28,740	33,887	33,031	31,906	2,847		2,471
(d) Total consumption including internal consumption (b+c)	60,798	64,143	60,815	65,037	5,431		5,218
(e) Total consumption **(in BCM)**	60.8	64.1	60.8	65.0	5.4		5.2
(f) Import dependency based on consumption (%), {c/d*100}	47.3	52.8	54.3	49.1	52.4		47.3

#Jul 2020- March -2021 and January- April 2022 DGCIS data prorated



19. Coal Bed Methane (CBM) gas development in India (March 2022)

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		16598	Sq. KM
Blocks awarded*		32	Nos.
Exploration initiated (Area considered if any boreholes were drilled in the awarded block)		10669.55	Sq. KM
Production of CBM gas	April-March 2022 (P)	683.40	MMSCM
Production of CBM gas	April 2022 (P)	55.21	MMSCM

*ST CBM Block awarded & relinquished twice- in CBM Round II and Round IV

20. Common Carrier Natural Gas pipeline network as on 31.12.2021

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	8,937	2,695	1,459	143	107	304	73	42	24				**13,784**
	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				**337.3**
Partially commissioned#	Length	4,643			166						441	365		**5,615**
	Capacity				-						-	-		-
Total operational length		**13,580**	**2,695**	**1,459**	**309**	**107**	**304**	**73**	**42**	**24**	**441**	**365**	**0**	**19,398**
Under construction	Length	5,945	100		1,265						1,891	1,666	3,550	**14,417**
	Capacity	-	3.0		-						-	-	149.0	-
Total length		**19,525**	**2,795**	**1,459**	**1,574**	**107**	**304**	**73**	**42**	**24**	**2,332**	**2,031**	**3,550**	**33,816**

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

Total authorized Natural Gas pipelines including Tie-in connectivity, dedicated & STPL is 35528 Kms

21. Existing LNG terminals

Location	Promoters	Capacity as on 01.05.2022	% Capacity utilisation (Apr-Mar 2022)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	87.5
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	47.2
Dabhol	Konkan LNG Limited	*5 MMTPA	85.1
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.7
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	13.0
Mundra	GSPC LNG Limited	5 MMTPA	19.3
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 31.03.2022(P)				
State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	**CNG Stations**	**PNG connections**		
		Domestic	**Commercial**	**Industrial**
Andhra Pradesh	128	228,606	366	28
Andhra Pradesh, Karnataka & Tamil Nadu	15	0	0	1
Assam	1	42,448	1,265	418
Bihar	47	73,738	34	1
Bihar & Jharkhand	0	5,139	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	23	22,603	85	17
Dadra & Nagar Haveli (UT)	7	8,787	51	53
Daman & Diu (UT)	4	4,889	32	37
Daman and Diu & Gujarat	13	452	1	0
Goa	10	9,890	11	22
Gujarat	937	2,677,063	21,220	5,686
Haryana	263	246,879	666	1,142
Haryana & Himachal Pradesh	9	0	0	0
Haryana & Punjab	16	0	0	0
Himachal Pradesh	7	2,260	0	0
Jharkhand	49	80,745	1	0
Karnataka	182	331,516	402	235
Kerala	80	17,734	15	12
Kerala & Puducherry	9	0	0	0
Madhya Pradesh	162	155,038	232	341
Madhya Pradesh and Chhattisgrah	3	0	0	0
Madhya Pradesh and Rajasthan	21	0	0	0
Madhya Pradesh and Uttar Pradesh	13	0	0	0
Maharashtra	571	2,327,389	4,713	508
Maharashtra & Gujarat	48	105,051	2	5
National Capital Territory of Delhi (UT)	456	1,261,605	3,134	1,708
Odisha	34	60,596	2	0
Puducherry & Tamil Nadu	7	0	0	0
Punjab	156	36,965	142	109
Rajasthan	168	139,338	26	153
Tamil Nadu	108	0	0	2
Telangana	117	162,257	60	83
Tripura	18	54,124	501	62
Uttar Pradesh	636	1,163,591	1,844	2,188
Uttar Pradesh & Rajasthan	36	18,958	9	339
Uttar Pradesh and Uttrakhand	16	4,872	0	0
Uttrakhand	26	60,134	40	65
West Bengal	37	0	0	0
Total	**4,433**	**9,302,667**	**34,854**	**13,215**

Source: PNGRB

Note: 1. All the GAs where PNG connections/CNG Stations have been established are considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

23. Domestic natural gas price and gas price ceiling (GCV basis)

Period	Domestic Natural Gas price in	Gas price ceiling in US$/MMBTU
November 2014 - March 2015	5.05	-
April 2015 - September 2015	4.66	-
October 2015 - March 2016	3.82	-
April 2016 - September 2016	3.06	6.61
October 2016 - March 2017	2.5	5.3
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.3
April 2018 - September 2018	3.06	6.78
October 2018 - March 2019	3.36	7.67
April 2019 - September 2019	3.69	9.32
October 2019 - March 2020	3.23	8.43
April 2020 - September 2020	2.39	5.61
October 2020 - March 2021	1.79	4.06
April 2021 - September 2021	1.79	3.62
October 2021 - March 2022	2.9	6.13
April 2022 - September 2022	6.1	9.92

24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	75.61	45.86	IGL website (23.05.2022)
Mumbai	76.00	45.50	MGL website (23.05.2022)

PART-F

Taxes & Duties on Petroleum Products

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2020-21	2021-22	April 2022
Crude oil (Indian Basket)	44.82	79.18	102.97
Petrol	47.68	89.66	123.50
Diesel	47.86	88.45	145.13
Kerosene	43.60	85.31	130.92
LPG ($/MT)	415.17	692.67	952.00
FO ($/MT)	259.30	445.25	681.18
Naphtha ($/MT)	378.93	698.25	852.64
Exchange (Rs./$)	74.20	74.51	76.17

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.90/Ltr^^	**
Diesel	2.50%	Rs 15.80/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)	2.50%		18.00%
ATF	5.00%	11% *	**
Crude Oil	Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD	**

*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 02.02.2022^^ Effective 22.05.2022

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

Particulars	Petrol	Diesel
Price charged to dealers (excluding Excise Duty and VAT)	57.33	58.14
Excise Duty	19.90	15.80
Dealers' Commission (Average)	3.78	2.57
VAT (incl VAT on dealers' commission)	15.71	13.11
Retail Selling Price	**96.72**	**89.62**

Particulars	PDS SKO	Domestic LPG
Price before taxes and dealers'/distributors' commission	72.47	890.39
Dealers'/distributors' commission	2.67	64.84
GST (incl GST on dealers'/distributors' commission)	3.76	47.77
Retail Selling Price	**78.90**	**1003.00**

*Petrol and Diesel at Delhi as per IOCL are as on 22nd May 2022. PDS SKO at Mumbai as on 1st May 2022 and Domestic LPG at Delhi as on 19th May 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	2019-20	2020-21	2021-22	2022-23 (P)	
				Target	April
ONGC Ltd	30,115	26,441	26,621	29,950	1,824
ONGC Videsh Ltd (OVL)	5,363	5,351	4,836	8,180	288
Oil India Ltd (OIL)	3,724	12,802	4,239	4,302	275
GAIL (India) Ltd	4,381	5,560	6,970	7,500	447
Indian Oil Corp. Ltd. (IOCL)	28,316	27,195	29,604	28,549	1,699
Hindustan Petroleum Corp. Ltd (HPCL)	13,773	14,036	16,205	14,500	523
Bharat Petroleum Corp. Ltd (BPCL)	10,255	10,697	11,449	10,000	548
Mangalore Refinery & Petrochem Ltd (MRPL)	1,318	2,218	604	815	17
Chennai Petroleum Corp. Ltd (CPCL)	969	592	575	584	15
Numaligarh Refinery Ltd (NRL)	536	981	3,403	6,774	169
Balmer Lawrie Co. Ltd (BL)	40	42	23	40	0
Engineers India Ltd (EIL)	164	730	67	160	1
Total	**98,955**	**106,642**	**104,596**	**111,354**	**5,808**

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

Petroleum Planning & Analysis Cell

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