

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

## Abridged Ready Reckoner

**Petroleum Planning & Analysis Cell**

(Ministry of Petroleum & Natural Gas)

**March 2022**



Analysis • Knowledge • Information

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As on 18.04.2022

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](http://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-March 2022 with a volume of 202.7 MMT reported a growth of 4.3% compared to the volume of 194.3 MMT during the same period of the previous year. Except SKO, petcoke & others, all petroleum products reported a growth in consumption during April-March 2022 compared to the same period of the previous year. The consumption of petroleum products during March 2022 recorded a growth of 4.2% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during March 2022 was lower by 3.4 % than that of March 2021 as compared to a de-growth of 2.2 % during February 2021. OIL registered a growth of 3.1 % and ONGC registered a de-growth of 1.8 % during March 2022 as compared to March 2021. PSC registered de-growth of 9.9 % during March 2022 as compared to March 2021. De-growth of 2.6 % was registered in the total crude oil and condensate production during April - March 2022 over the corresponding period of the previous year.
- Total Natural Gas Consumption (including internal consumption) for the month of March 2022 was 5426 MMSCM which was 0.4% lower than the corresponding month of the previous year. The cumulative consumption of 65307 MMSCM for the current year till March 2022 was higher by 6.9% compared with the corresponding period of the previous year.
- Crude oil processed during March 2022 was 22.3 MMT, which was 6.4 % higher than March 2021 as compared to a growth of 9.8 % during February 2021. Growth of 9.0 % was registered in the total crude oil processing during April- March 2022 over the corresponding period of the previous year.
- Production of petroleum products registered a growth of 5.8 % during March 2022 over March 2021 as compared to a growth of 8.8 % during February 2021. Growth of 8.9 % was registered in the total POL production during April- March 2022 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 10.67% during March 2022 and cumulative ethanol blending during December 2021- March 2022 was 9.65%.

•	Gross production of natural gas for the month of March 2022 was 2886 MMSCM which was higher by 7.5% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 34024 MMSCM for the current financial year till March 2022 was higher by 18.7% compared with the corresponding period of the previous year.
•	LNG import for the month of March 2022 (P) was 2613 MMSCM which was 7.8 % lower than the corresponding month of the previous year. The cumulative import of 31906 MMSCM for the current year till March 2022 was lower by 3.4% compared with the corresponding period of the previous year.
•	Crude oil imports increased by 5.4% and 8% during March 2022 and April-March 2022 respectively as compared to the corresponding period of the previous year.
•	POL products imports decreased by 17.4% and 7% during March 2022 and April-March 2022 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-March 2022 were due to decrease in imports of petcoke, motor sprit (MS), high speed diesel (HSD) and superior kerosene oil (SKO) etc.
•	Exports of POL products decreased by 4.4% and increased by 8.9% during March 2022 and April-March 2022 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-March 2022 (P) were due to increase in exports of all products except LOBS/Lubes oil, Bitumen, petcoke/CBFS and superior kerosene oil (SKO) etc.
•	The price of Brent Crude averaged \$118.81/bbl during March 2022 as against \$98.19/bbl during Februray 2022 and \$65.63/bbl during March 2021. The Indian basket crude price averaged \$112.87/bbl during March 2022 as against \$94.07/bbl during February 2022 and \$64.73 /bbl during March 2021.



GROSS DOMESTIC PRODUCT

**GDP**

# ***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)	March		April-March		
				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	-3.2*	1.7* QE	-11.1#	12.5#
6	Imports <sup>^</sup>	\$ Billion	474.7	394.4	48.9	60.7	394.4	611.9
7	Exports <sup>^</sup>	\$ Billion	313.4	291.8	35.3	42.2	291.8	419.7
8	Trade Balance	\$ Billion	-161.3	-102.6	-13.6	-18.5	-102.6	-192.2
9	Foreign Exchange Reserves <sup>@</sup>	\$ Billion	475.6	579.3	579.3	617.6	-	-

IIP is for the month of \*February and #April-February; @2019-20-as on March 27, 2020, 2020-21-as on March 26, 2021, March 2021- as on March 26, 2021 and March 2022-as on March 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

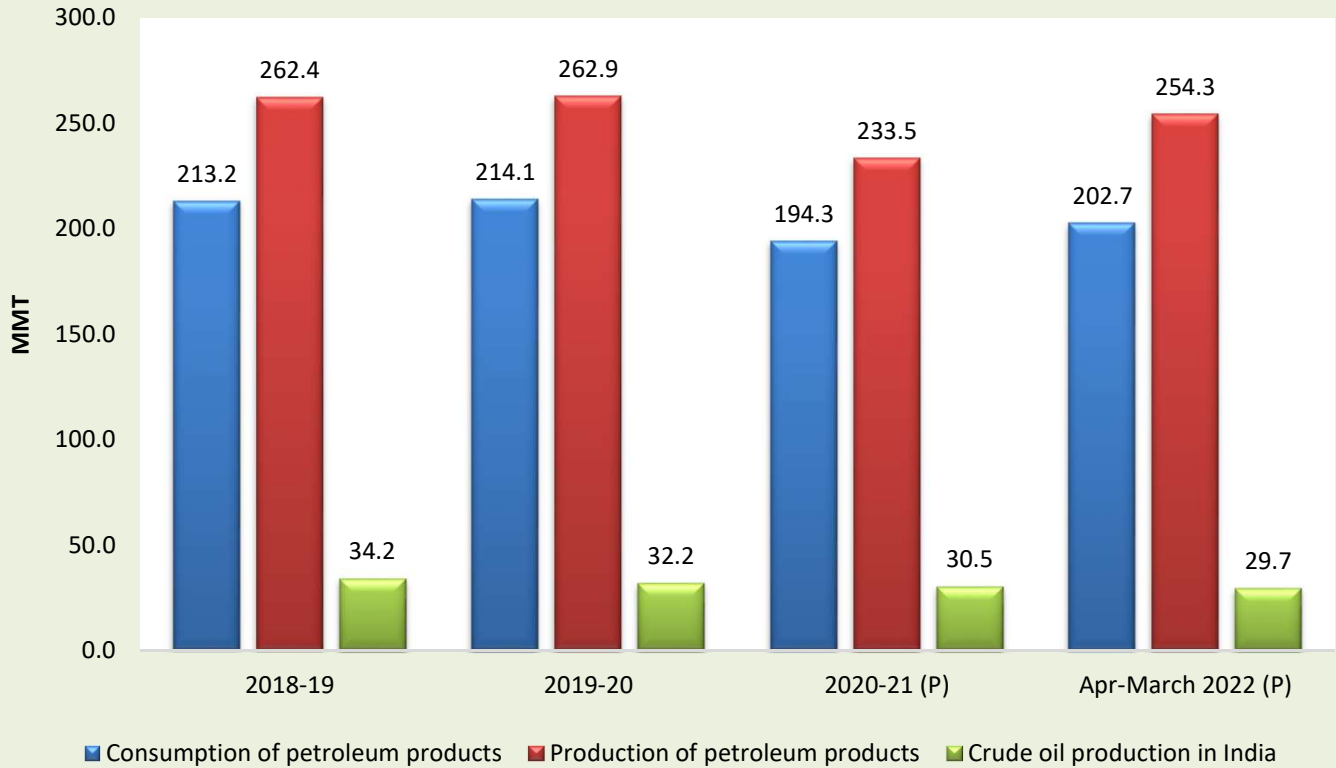


## 2. Crude oil, LNG and petroleum products at a glance

Details		Unit/ Base	2019-20	2020-21 (P)	March		April-March	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Crude oil production in India <sup>#</sup>	MMT	32.2	30.5	2.6	2.5	30.5	29.7
2	Consumption of petroleum products*	MMT	214.1	194.3	18.6	19.4	194.3	202.7
3	Production of petroleum products	MMT	262.9	233.5	22.8	24.1	233.5	254.3
4	Gross natural gas production	MMSCM	31,184	28,672	2,686	2,886	28,673	34,024
5	Natural gas consumption	MMSCM	64,144	60,815	5,592	5,426	60,815	65,037
6	Imports & exports:							
	Crude oil imports	MMT	227.0	196.5	18.3	19.2	196.5	212.2
		\$ Billion	101.4	62.2	8.4	13.7	62.2	119.2
	Petroleum products (POL) imports*	MMT	43.8	43.2	4.0	3.3	43.2	40.2
		\$ Billion	17.7	14.8	1.9	2.2	14.8	24.2
	Gross petroleum imports (Crude + POL)	MMT	270.7	239.7	22.3	22.6	239.7	252.4
		\$ Billion	119.1	77.0	10.3	15.9	77.0	143.4
	Petroleum products (POL) export	MMT	65.7	56.8	6.1	5.8	56.8	61.8
		\$ Billion	35.8	21.4	3.4	4.8	21.4	42.3
	LNG imports*	MMSCM	33,887	33,031	2,978	2,613	33,031	31,906
		\$ Billion	9.5	7.9	0.8	1.0	7.9	11.9
	Net oil & gas imports	\$ Billion	92.7	63.5	7.8	12.1	63.5	113.1
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	21.1	26.2	19.5	23.4
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	9.5	11.4	7.3	10.1
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	85.4	87.3	84.4	85.5

<sup>#</sup>Includes condensate; \*Private direct imports are prorated for the period Dec'21 to Mar'22 for POL & Jul'20 to Mar'22 for Natural Gas & RIL data for Mar'22;

### Crude Oil & Petroleum Products (MMT)





## ***PART-B***

# ***Crude Oil, Refining & Production***

### 3. Indigenous crude oil production (Million Metric Tonnes)

Details	2019-20	2020-21	March			April-March		
			2020-21	2021-22 Target*	2021-22 (P)	2020-21	2021-22 Target*	2021-22 (P)
ONGC	19.2	19.1	1.6	1.9	1.6	19.1	22.6	18.5
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.3	2.9	3.3	3.0
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.7	0.6	7.1	7.7	7.0
<b>Total Crude Oil</b>	<b>30.5</b>	<b>29.1</b>	<b>2.5</b>	<b>2.9</b>	<b>2.4</b>	<b>29.1</b>	<b>33.6</b>	<b>28.4</b>
ONGC condensate	1.4	1.1	0.08	0.0	0.1	1.1	0.0	0.9
PSC condensate	0.3	0.3	0.03	0.0	0.02	0.27	0.0	0.30
<b>Total condensate</b>	<b>1.6</b>	<b>1.4</b>	<b>0.11</b>	<b>0.0</b>	<b>0.1</b>	<b>1.4</b>	<b>0.0</b>	<b>1.2</b>
<b>Total (Crude + Condensate) (MMT)</b>	<b>32.2</b>	<b>30.5</b>	<b>2.6</b>	<b>2.9</b>	<b>2.5</b>	<b>30.5</b>	<b>33.6</b>	<b>29.7</b>
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.62	0.68	0.60	0.61	0.68	0.60

\*Provisional targets inclusive of condensate.

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

Details	2019-20	2020-21	March		April-March	
			2020-21	2021-22 (P)	2020-21	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	5.3	5.4	59.2	63.7
Overseas production (MMTOE)	24.5	21.9	1.9	1.7	21.9	21.7
<b>Overseas production as percentage of domestic production</b>	<b>38.7%</b>	<b>37.0%</b>	<b>35.1%</b>	<b>31.8%</b>	<b>37.0%</b>	<b>34.1%</b>

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

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

Details		2019-20	2020-21	March		April-March	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	High Sulphur crude	192.4	161.4	15.3	17.2	161.4	185.0
2	Low Sulphur crude	62.0	60.3	5.7	5.1	60.3	56.7
<b>Total crude processed (MMT)</b>		<b>254.4</b>	<b>221.8</b>	<b>21.0</b>	<b>22.3</b>	<b>221.8</b>	<b>241.7</b>
Total crude processed (Million Bbl/Day)		5.09	4.45	4.96	5.28	4.45	4.85
<b>Percentage share of HS crude in total crude oil processing</b>		<b>75.6%</b>	<b>72.8%</b>	<b>72.9%</b>	<b>77.1%</b>	<b>72.8%</b>	<b>76.5%</b>

### 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-March 2021-22(P)	212.2	119,236	8,89,774

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

Particulars		2019-20	2020-21	March		April-March	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	Indigenous crude oil processing	29.3	28.0	2.5	2.3	28.0	27.1
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.4	2.1	26.1	25.3
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.4	0.3	4.2	4.1
4	Total production from indigenous crude & condensate (2 + 3)	32.1	30.3	2.7	2.5	30.3	29.3
5	Total domestic consumption	214.1	194.3	18.6	19.4	194.3	202.7
<b>% Self-sufficiency (4 / 5)</b>		<b>15.0%</b>	<b>15.6%</b>	<b>14.6%</b>	<b>12.7%</b>	<b>15.6%</b>	<b>14.5%</b>

## 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	March			April-March		
					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	5.5	5.7	5.6
2	Koyali (1965)	13.7	13.1	11.6	0.9	1.3	1.3	11.6	13.4	13.5
3	Haldia (1975)	8.0	6.5	6.8	0.7	0.7	0.7	6.8	7.8	7.3
4	Mathura (1982)	8.0	8.9	8.9	0.9	0.9	0.9	8.9	9.2	9.1
5	Panipat (1998)	15.0	15.0	13.2	1.2	1.4	1.3	13.2	15.4	14.8
6	Guwahati (1962)	1.0	0.9	0.8	0.09	0.1	0.1	0.85	0.7	0.7
7	Digboi (1901)	0.65	0.7	0.6	0.02	0.06	0.06	0.6	0.7	0.7
8	Bongaigaon(1979)	2.70	2.0	2.5	0.2	0.2	0.2	2.5	2.6	2.6
9	Paradip (2016)	15.0	15.8	12.5	1.4	1.5	1.4	12.5	13.5	13.2
	<b>IOCL-TOTAL</b>	<b>70.1</b>	<b>69.4</b>	<b>62.4</b>	<b>5.9</b>	<b>6.8</b>	<b>6.6</b>	<b>62.4</b>	<b>69.1</b>	<b>67.7</b>
10	Manali (1969)	10.5	10.2	8.2	1.0	1.0	1.1	8.2	9.1	9.0
11	CBR (1993)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	<b>CPCL-TOTAL</b>	<b>10.5</b>	<b>10.2</b>	<b>8.2</b>	<b>1.0</b>	<b>1.0</b>	<b>1.1</b>	<b>8.2</b>	<b>9.1</b>	<b>9.0</b>
12	Mumbai (1955)	12.0	15.0	12.9	1.4	1.3	1.3	12.9	14.5	14.4
13	Kochi (1966)	15.5	16.5	13.3	1.4	1.5	1.5	13.3	15.3	15.4
14	Bina (2011)	7.8	7.9	6.2	0.6	0.6	0.7	6.2	7.1	7.4
	<b>BPCL-TOTAL</b>	<b>35.3</b>	<b>39.4</b>	<b>32.4</b>	<b>3.4</b>	<b>3.4</b>	<b>3.5</b>	<b>32.4</b>	<b>36.9</b>	<b>37.2</b>
15	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.2	2.7	2.8	2.6

Sl. no.	Refinery	Installed capacity (1.01.2022) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21	March			Apr-March		
					2020-21	2021-22 (Target)	2021-22 (P)	2020-21	2021-22 (Target)	2021-22 (P)
16	Tatipaka (2001)	0.066	0.087	0.081	0.008	0.006	0.006	0.081	0.063	0.075
17	MRPL-Mangalore (1996)	15.0	14.0	11.5	1.4	1.4	1.5	11.5	14.6	14.9
	<b>ONGC-TOTAL</b>	<b>15.1</b>	<b>14.0</b>	<b>11.6</b>	<b>1.4</b>	<b>1.4</b>	<b>1.5</b>	<b>11.6</b>	<b>14.7</b>	<b>14.9</b>
18	Mumbai (1954)	7.5	8.1	7.4	0.7	0.7	0.7	7.4	7.3	5.6
19	Visakh (1957)	8.3	9.1	9.1	0.9	1.2	0.8	9.1	10.5	8.4
20	HMEL-Bathinda (2012)	11.3	12.2	10.1	1.0	0.9	1.1	10.1	11.0	13.0
	<b>HPCL- TOTAL</b>	<b>27.1</b>	<b>29.4</b>	<b>26.5</b>	<b>2.6</b>	<b>2.9</b>	<b>2.6</b>	<b>26.5</b>	<b>28.8</b>	<b>27.0</b>
21	RIL-Jamnagar (DTA) (1999)	33.0	33.0	34.1	2.8	2.8	3.1	34.1	34.1	34.8
22	RIL-Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.1	2.1	2.1	26.8	26.8	28.3
23	NEL-Vadinar (2006)	20.0	20.6	17.1	1.6	1.6	1.7	17.1	17.1	20.2
<b>All India (MMT)</b>		<b>249.2</b>	<b>254.4</b>	<b>221.8</b>	<b>21.0</b>	<b>22.3</b>	<b>22.3</b>	<b>221.8</b>	<b>239.4</b>	<b>241.7</b>
<b>All India (Million Bbl/Day)</b>		<b>5.02</b>	<b>5.09</b>	<b>4.45</b>	<b>4.96</b>	<b>5.27</b>	<b>5.28</b>	<b>4.45</b>	<b>4.81</b>	<b>4.85</b>

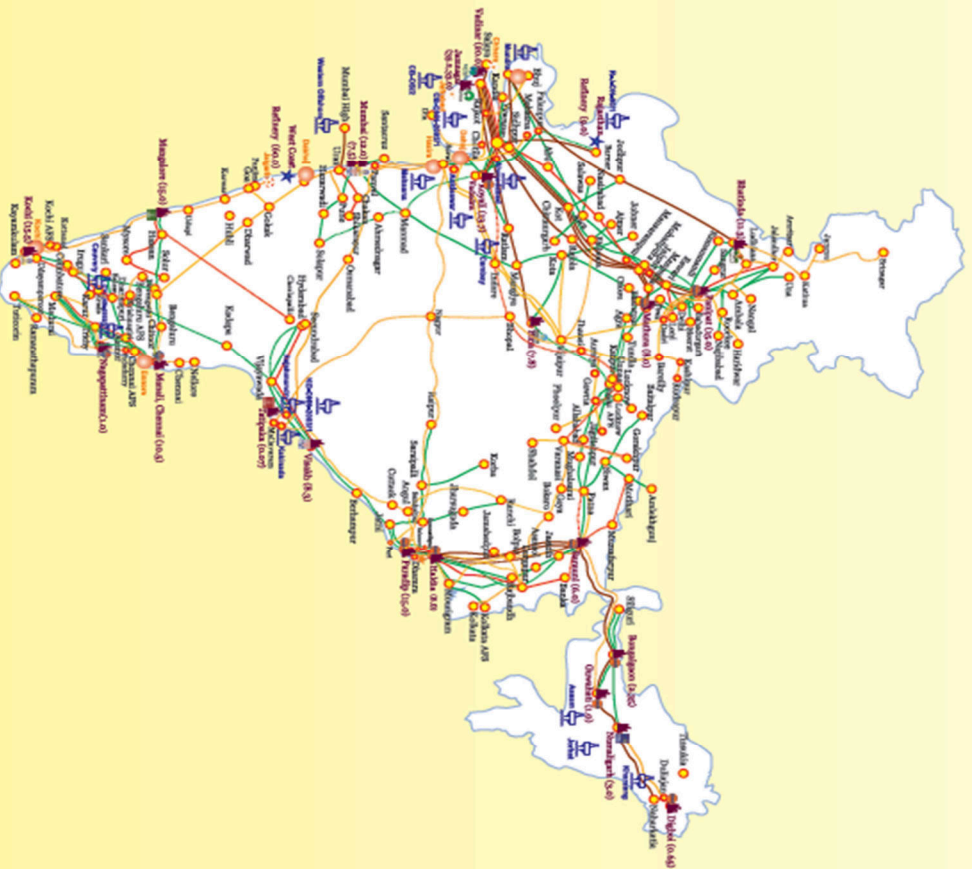
Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

### 9. Major crude oil and product pipeline network (as on 01.04.2022)

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

\*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



★ (Booming Terminal) Durgam, Jethwal, Jhijhyn, Chivem

## LEGENDS

### Pipelines Network

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



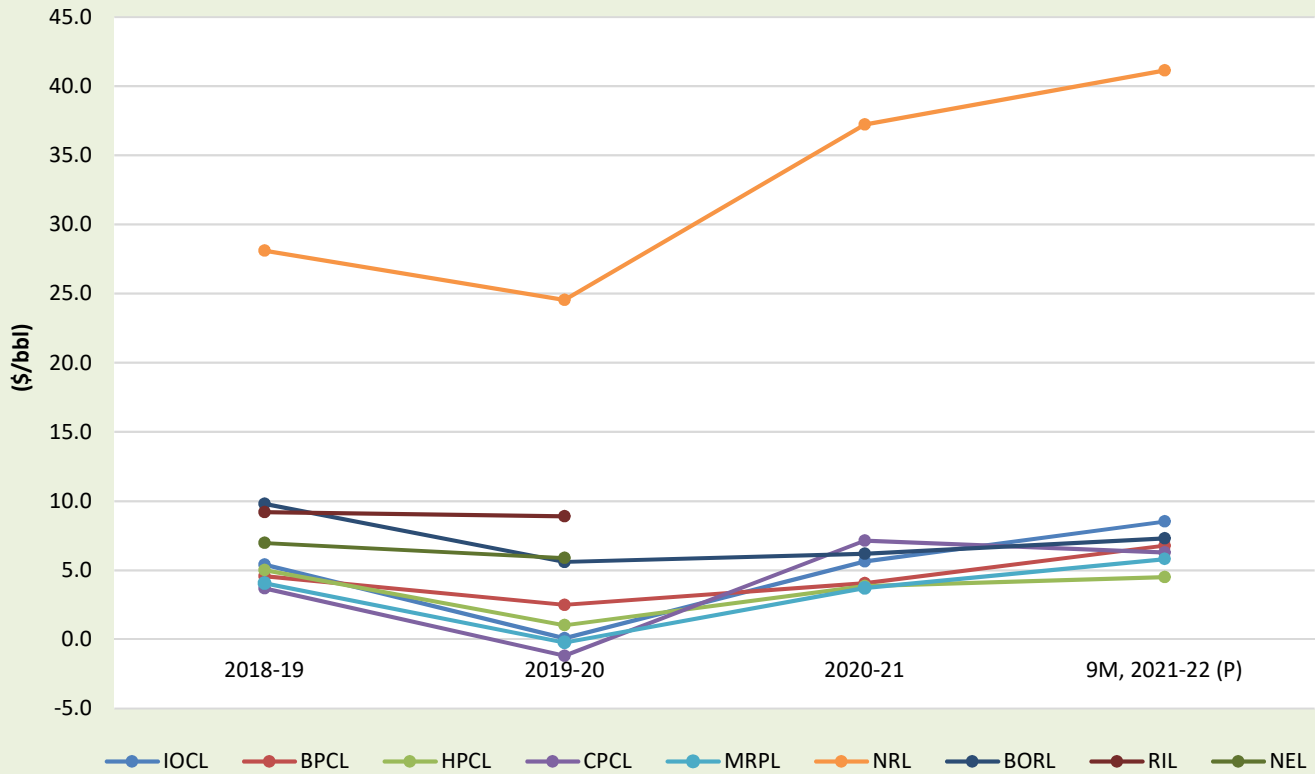
### 10. Gross Refining Margins (GRM) of refineries (\$/bbl)

Company	2018-19	2019-20	2020-21	9M, 2021-22 (P)
IOCL <sup>#</sup>	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 <sup>#</sup>	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***

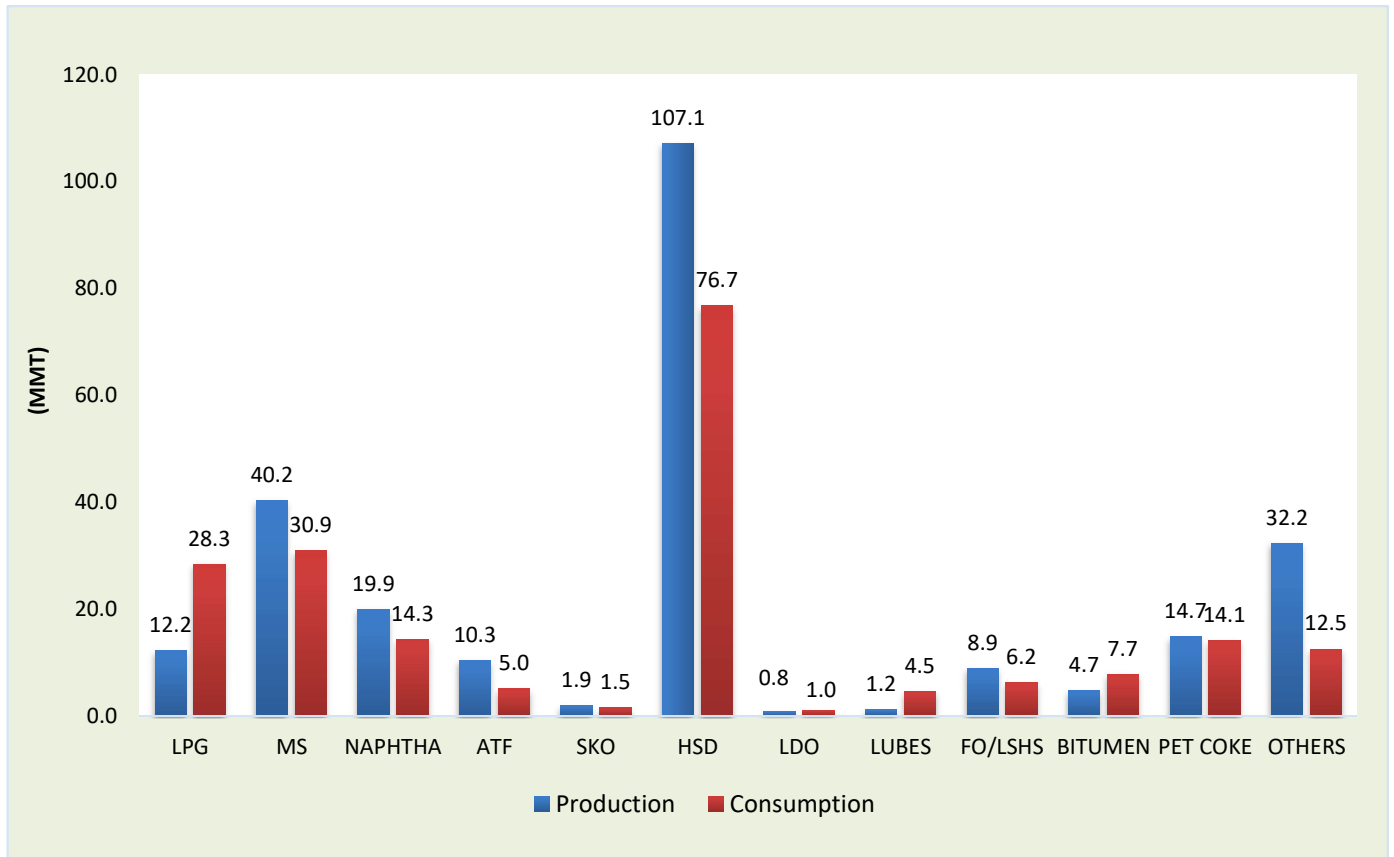
***Consumption***

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

Products	2019-20		2020-21		March 2021		March 2022 (P)		Apr-Mar 2021		Apr-Mar 2022 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	26.3	12.1	27.6	1.1	2.3	1.1	2.5	12.1	27.6	12.2	28.3
MS	38.6	30.0	35.8	28.0	3.6	2.7	3.9	2.9	35.8	28.0	40.2	30.9
NAPHTHA	20.6	14.3	19.4	14.1	1.9	1.3	1.8	1.1	19.4	14.1	19.9	14.3
ATF	15.2	8.0	7.1	3.7	0.9	0.5	1.0	0.5	7.1	3.7	10.3	5.0
SKO	3.2	2.4	2.4	1.8	0.2	0.2	0.1	0.1	2.4	1.8	1.9	1.5
HSD	111.1	82.6	100.4	72.7	9.6	7.2	10.5	7.7	100.4	72.7	107.1	76.7
LDO	0.6	0.6	0.7	0.9	0.08	0.11	0.10	0.08	0.7	0.9	0.8	1.0
LUBES	0.9	3.8	1.1	4.1	0.1	0.4	0.1	0.5	1.1	4.1	1.2	4.5
FO/LSHS	9.3	6.3	7.4	5.6	0.8	0.5	0.7	0.6	7.4	5.6	8.9	6.2
BITUMEN	4.9	6.7	4.9	7.5	0.7	1.0	0.6	0.9	4.9	7.5	4.7	7.7
PET COKE	14.6	21.7	12.0	15.6	1.1	1.3	1.4	1.3	12.0	15.6	14.7	14.1
OTHERS	31.0	11.4	30.2	12.8	2.8	1.2	2.8	1.2	30.2	12.8	32.2	12.5
<b>ALL INDIA</b>	<b>262.9</b>	<b>214.1</b>	<b>233.5</b>	<b>194.3</b>	<b>22.8</b>	<b>18.6</b>	<b>24.1</b>	<b>19.4</b>	<b>233.5</b>	<b>194.3</b>	<b>254.3</b>	<b>202.7</b>
<b>Growth (%)</b>	<b>0.2%</b>	<b>0.4%</b>	<b>-11.2%</b>	<b>-9.3%</b>	<b>-0.3%</b>	<b>16.9%</b>	<b>5.8%</b>	<b>4.2%</b>	<b>-11.2%</b>	<b>-9.3%</b>	<b>8.9%</b>	<b>4.3%</b>

**Note:** Prod - Production; Cons - Consumption

## Petroleum Products: April-March 2022 (P) (MMT)



## 12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2018-19		2019-20		2020-21		2021-22 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	44,32,994	41,52,112	31,21,328	27,93,217	23,15,008	20,38,790	17,83,344	16,59,906

\* For 2022-21 allocation & upliftment is for Apr-Mar 2022.

## 13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2018-19	2019-20	2020-21	2021-22 (P)	
				Mar-22	Dec'21-Mar'22
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	188.6	173.0	296.1	43.0	138.9
Ethanol blended under EBP Program (in Cr. Litrs)	191.2	170.5	302.3	40.3	132.0
Average Percentage of Blending Sales (EBP%)	5.0%	5.0%	8.1%	10.7%	9.7%

\*Ethanol Supply Year : Ethanol supplies take place between 1<sup>st</sup> 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 01.04.2022) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) <sup>§</sup>	120	81	81	18	3		6	309
Aviation Fuel Stations (Nos.) <sup>@</sup>	126	61	47	30			1	265
Retail Outlets (total) (Nos.) <sup>^</sup>	34,559	20,063	20,025	1,457	6,568	323	32	83,027
out of which Rural ROs	11,026	4,868	4,932	130	2,141	83	3	23,183
SKO/LDO agencies (Nos.)	3,871	927	1,638					6,436
LPG Distributors (total) (Nos.) (PSUs only)	12,813	6,213	6,243					25,269
LPG Bottling plants (Nos.) (PSUs only) <sup>#</sup>	92	54	53				3	202
LPG Bottling capacity (TMTPA) (PSUs only) <sup>&amp;</sup>	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

<sup>§</sup>(Others=4 MRPL & 2 NRL); <sup>@</sup>(Others=ShellMRPL); <sup>^</sup>(Others=31 MRPL); <sup>#</sup>(Others=NRL-1, OIL-1, CPCL-1); <sup>&</sup>(Others=NRL-60, OIL-23, CPCL-120); RBML- Reliance BP Mobility Limited; RSIL-RBML Solutions India Ltd.



अपना धन पाओ,  
जन धन बचाओ.

**पहला**  
... एक नई दिशा  
प्रत्यक्ष हस्तान्तरित लाभ



**#GiveItUp**  
Feel the Joy of Giving



उज्ज्वला  
... एक नई दिशा  
प्रत्यक्ष हस्तान्तरित लाभ

**PART-D**

**LPG**

15. LPG consumption (Thousand Metric Tonne)								
LPG category	2019-20	2020-21	March			April-March		
			2020-21	2021-22 (P)	Growth (%)	2020-21	2021-22 (P)	Growth (%)
<b>1. PSU Sales :</b>								
LPG-Packed Domestic	23,076.0	25,128.1	1,993.1	2,215.1	11.1	25,128.1	25,501.6	1.5
LPG-Packed Non-Domestic	2,614.4	1,886.0	202.6	206.6	2.0	1,886.0	2,238.8	18.7
LPG-Bulk	263.5	361.9	40.6	39.6	-2.6	361.9	390.9	8.0
Auto LPG	171.9	118.4	12.5	11.0	-12.0	118.4	122.0	3.0
<b>Sub-Total (PSU Sales)</b>	<b>26,125.7</b>	<b>27,494.3</b>	<b>2,248.7</b>	<b>2,472.3</b>	<b>9.9</b>	<b>27,494.4</b>	<b>28,253.3</b>	<b>2.8</b>
<b>2. Direct Private Imports*</b>	<b>204.0</b>	<b>64.2</b>	<b>7.7</b>	<b>6.8</b>	<b>-11.7</b>	<b>64.2</b>	<b>82.0</b>	<b>27.7</b>
<b>Total (1+2)</b>	<b>26,329.8</b>	<b>27,558.4</b>	<b>2,256.4</b>	<b>2,479.1</b>	<b>9.9</b>	<b>27,558.6</b>	<b>28,335.3</b>	<b>2.8</b>

\*Dec-Mar 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	1.04.22 (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%	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	899.0
	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	25269
	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%	0.7%
Auto LPG Dispensing Stations	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	601
	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%	-8.5%
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%	1.0%

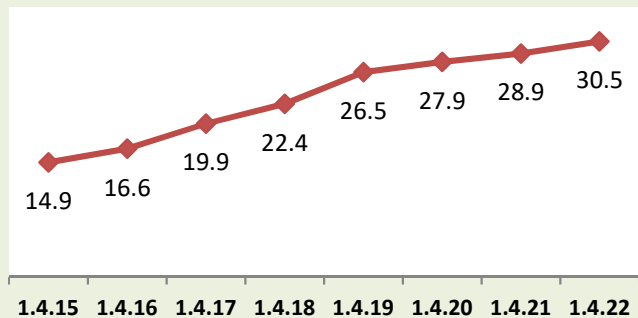
Source: PSU OMCs (IOCL, BPCL and HPCL)

1. Growth rates as on 01.04.2022 are with respect to figs as on 01.04.2021. Growth rates as on 1 April of any year are with respect to figs as on 1 April of previous year.

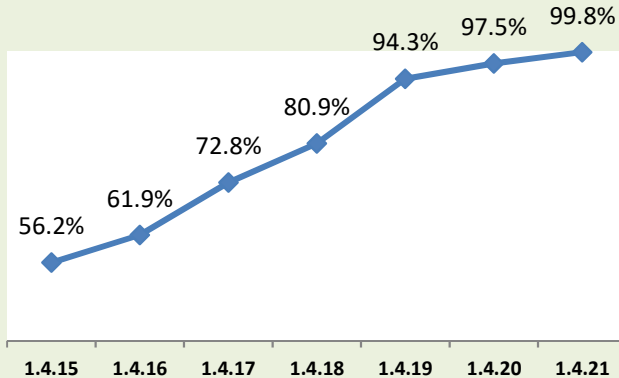
2. The LPG coverage is calculated by PSU OMCs based upon the active LPG domestic connections and the estimated number of households. The number of households has been projected by PSU OMCs based on 2011 census data. Factors like increasing nuclearization of families, migration of individuals/ families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



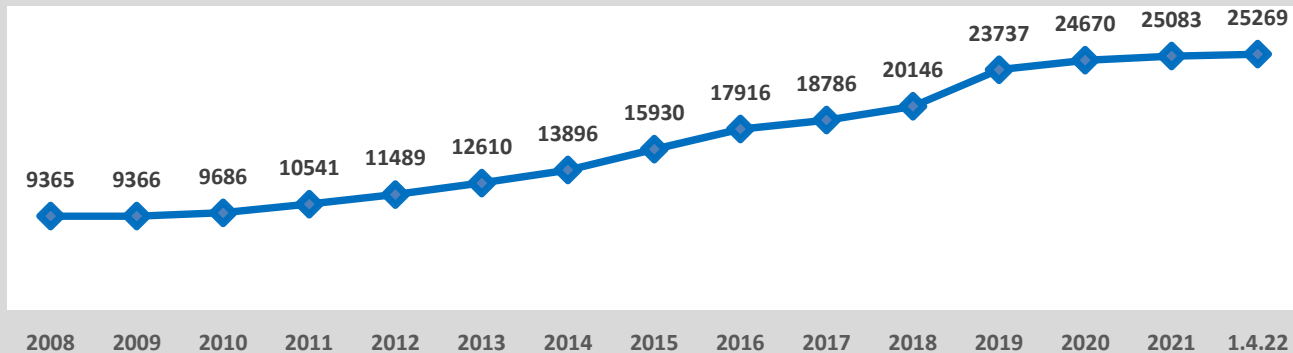
**Number of active LPG domestic customers (In Crore)**



**LPG coverage**



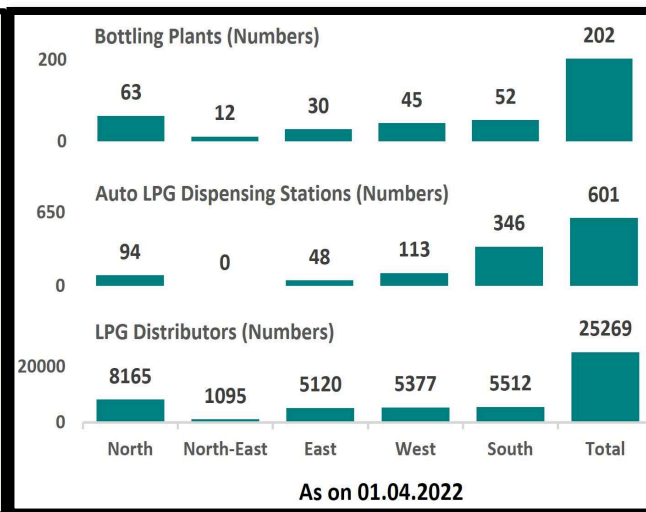
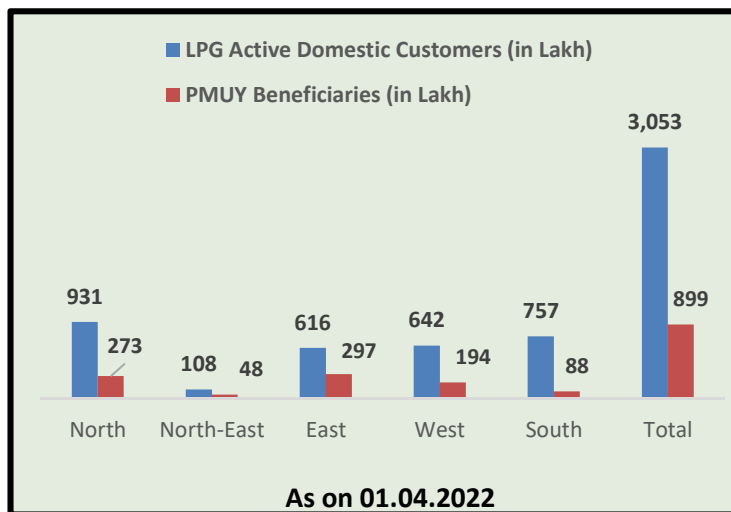
**Number of LPG distributors**



### 17-Region-wise data on LPG marketing (As on 01.04.2022)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	930.8	107.9	615.6	641.9	757.0	3053.2
PMUY Beneficiaries (in Lakh)	272.5	47.7	296.8	194.4	87.6	899.0
LPG Distributors (Numbers)	8165	1095	5120	5377	5512	25269
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.





## ***PART-E***

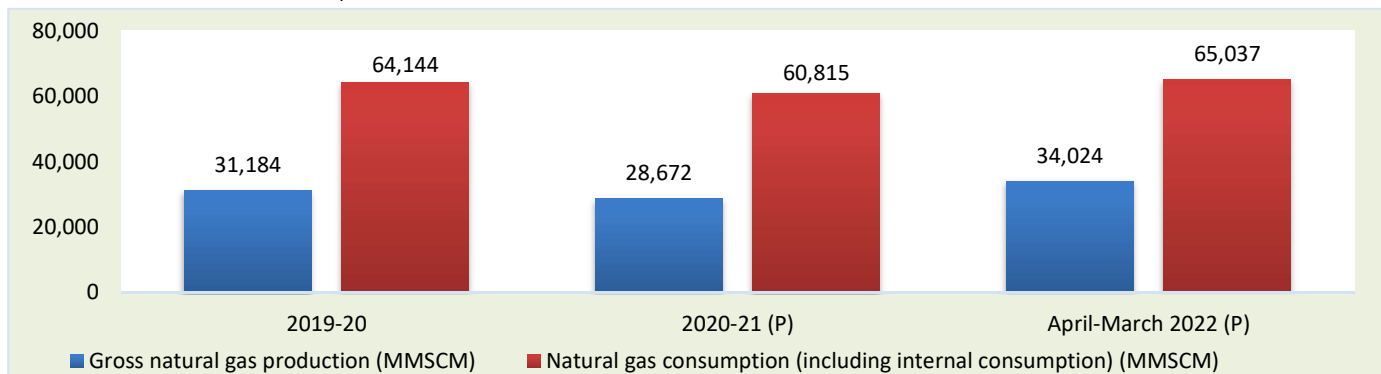
## *Natural Gas*

## 18. Natural gas at a glance

(MMSCM)

Details	2019-20	2020-21 (P)	March			April-March		
			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	2,686	3,415	2,886	28,673	37,657	34,024
- ONGC	23,746	21,872	1,832	1,962	1,756	21,872	22,600	20,629
- Oil India Limited (OIL)	2,668	2,480	210	278	250	2,480	3,223	2,893
- Private / Joint Ventures (JVs)	4,770	4,321	644	1,175	880	4,321	11,835	10,502
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,614		2,813	27,784		33,131
(c) LNG import <sup>#</sup>	33,887	33,031	2,978		2,613	33,031		31,906
(d) Total consumption including internal consumption (b+c)	64,144	60,815	5,592		5,426	60,815		65,037
(e) Total consumption (in BCM)	64.1	60.8	5.6		5.4	60.8		65.0
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.3	53.3		48.2	54.3		49.1

#Jul 2020-Mar 2022 DGCI&S & RIL data prorated for Mar'22



## 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	March 2022 (P)	56.58	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 <sup>#</sup>	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 01.04.2022	% Capacity utilisation (Apr-Feb 2022)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	88.5
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	50.0
Dabhol	Konkan LNG Limited	*5 MMTPA	79.9
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	20.9
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	13.0
Mundra	GSPC LNG Limited	5 MMTPA	19.4
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 28.02.2022(P)**

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	112	225,822	354	26
Andhra Pradesh, Karnataka & Tamil Nadu	6	0	0	1
Assam	1	41,736	1,261	413
Bihar	38	69,810	28	1
Bihar & Jharkhand	0	4,995	0	0
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	22	22,484	80	15
Dadra & Nagar Haveli (UT)	7	8,482	50	52
Daman & Diu (UT)	4	4,888	32	35
Daman and Diu & Gujarat	13	360	1	0
Goa	10	9,845	11	21
Gujarat	899	2,651,947	21,095	5,683
Haryana	240	240,036	652	1,120
Haryana & Himachal Pradesh	9	0	0	0
Haryana & Punjab	12	0	0	0
Himachal Pradesh	7	2,125	0	0
Jharkhand	40	74,244	0	0
Karnataka	126	325,341	389	225
Kerala	60	17,412	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	150	142,167	218	326
Madhya Pradesh and Chhattisgarh	2	0	0	0
Madhya Pradesh and Rajasthan	19	0	0	0
Madhya Pradesh and Uttar Pradesh	11	0	0	0
Maharashtra	521	2,282,970	4,666	500
Maharashtra & Gujarat	45	101,723	0	2
National Capital Territory of Delhi (UT)	449	1,230,997	3,048	1,695
Odisha	31	53,318	1	0
Puducherry & Tamil Nadu	4	0	0	0
Punjab	140	32,421	175	105
Rajasthan	154	124,407	25	148
Tamil Nadu	90	0	0	2
Telangana	114	158,991	50	75
Tripura	18	54,103	501	62
Uttar Pradesh	565	1,131,925	1,789	2,162
Uttar Pradesh & Rajasthan	31	18,958	6	338
Uttar Pradesh and Uttrakhand	10	800	0	0
Uttrakhand	21	58,606	39	59
West Bengal	30	0	0	0
<b>Total</b>	<b>4,013</b>	<b>9,090,913</b>	<b>34,486</b>	<b>13,078</b>

Source: PNGRB

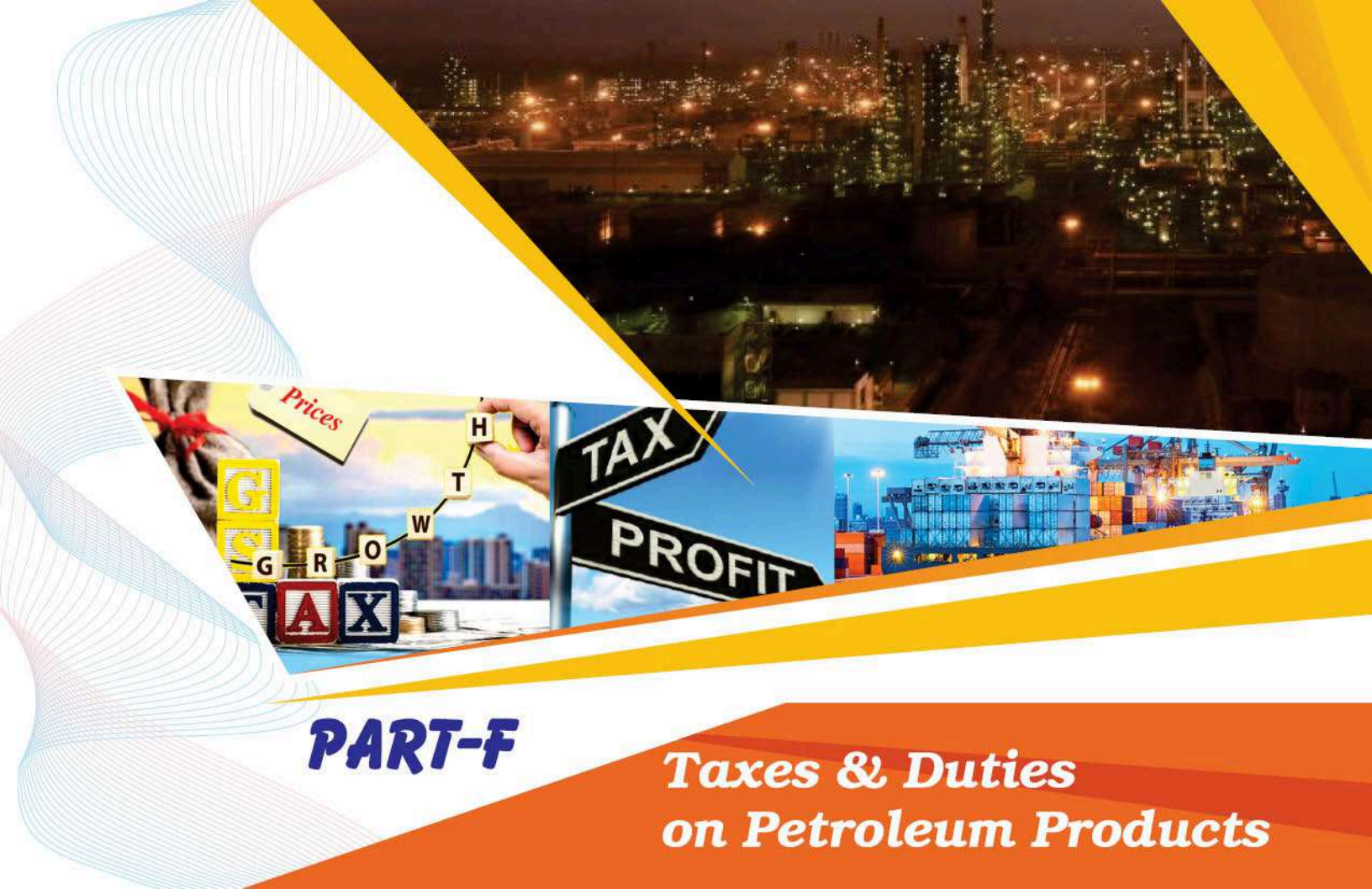
**Note:** 1. All the GAs where PNG connections/CNG Stations have been established are considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

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

Period	Domestic Natural Gas price in 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
April 2022 - September 2022	6.1	9.92

### 24. CNG/PNG prices

City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source
Delhi	71.61	45.46	IGL website (18.04.2022)
Mumbai	72.00	45.50	MGL website (18.04.2022)



## ***PART-F***

# *Taxes & Duties on Petroleum Products*



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

International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)		
Particulars	2019-20	2020-21	March 2022	Particulars	Petrol*	Diesel*
Crude oil (Indian Basket)	60.47	44.82	112.87	Price charged to dealers (excluding Excise Duty and VAT)	53.54	55.09
Petrol	66.94	47.68	127.44	Excise Duty	27.90	21.80
Diesel	71.78	47.86	138.12	Dealers' Commission (Average)	3.83	2.58
Kerosene	70.56	43.60	130.07	VAT (incl VAT on dealers' commission)	16.54	13.60
LPG (\$/MT)	453.75	415.17	910.00	<b>Retail Selling Price</b>	<b>101.81</b>	<b>93.07</b>
FO (\$/MT)	321.19	259.30	634.23			
Naphtha (\$/MT)	471.08	378.93	955.52			
Exchange (Rs./\$)	70.88	74.20	76.24			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO*	Subsidised Domestic LPG*
Petrol	2.50%	Rs 27.90/Ltr	**	Price before taxes and dealers'/distributors' commission	70.04	842.45
Diesel	2.50%	Rs 21.80/Ltr	**	Dealers'/distributors' commission	2.68	61.84
PDS SKO	5%^	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	3.64	45.21
Non-PDS SKO	5.00%		18.00%	<b>Retail Selling Price</b>	<b>76.36</b>	<b>949.50</b>
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 2.02.2022

\*Petrol and Diesel at Delhi as per IOCL are as on 1st April 2022. PDS SKO at Mumbai as on 1st April 2022 and Subsidised Domestic LPG at Delhi as on 1st April 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
<b>Total</b>	<b>6,048</b>	<b>1,875</b>	<b>0</b>

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

### Domestic LPG under DBTL (Direct benefit transfer for LPG)

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

^ 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%	
<b>Total (Rs. Crores)</b>	<b>5,55,370</b>	<b>6,72,719</b>	<b>561,922</b>

### 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-March
ONGC Ltd	28,738	30,115	26,441	29,800	26,621
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	4,836
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	4,239
GAIL (India) Ltd	5,958	4,381	5,560	5,861	6,970
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	29,604
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	16,205
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	11,449
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	604
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	575
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	3,403
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	23
Engineers India Ltd (EIL)	87	164	730	150	67
<b>Total</b>	<b>95,684</b>	<b>98,955</b>	<b>106,642</b>	<b>104,620</b>	<b>104,596</b>

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

## 27. Conversion factors and volume conversion

Weight to volume conversion				Volume conversion	
Product	Weight (MT)	Volume (KL)	Barrel (bbl)	From	To
LPG	1	1.844	11.60	1 US Barrel (bbl)	159 litres
Petrol (MS)	1	1.411	8.88	1 US Barrel (bbl)	42 US Gallons
Diesel (HSD)	1	1.210	7.61	1 US Gallon	3.78 litres
Kerosene (SKO)	1	1.285	8.08	1 Kilo litre (KL)	6.29 bbl
Aviation Turbine Fuel (ATF)	1	1.288	8.10	1 Million barrels per day	49.8 MMTPA
Light Diesel Oil (LDO)	1	1.172	7.37	<b>Energy conversion</b>	
Furnace Oil (FO)	1	1.0424	6.74	1 Kilocalorie (kcal)	4.187 kJ
Crude Oil	1	1.170	7.33	1 Kilocalorie (kcal)	3.968 Btu
<b>Exclusive Economic Zone</b>				1 Kilowatt-hour (kWh)	860 kcal
200 Nautical Miles	370.4 Kilometers			1 Kilowatt-hour (kWh)	3,412 Btu

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

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