

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

Abridged Ready Reckoner

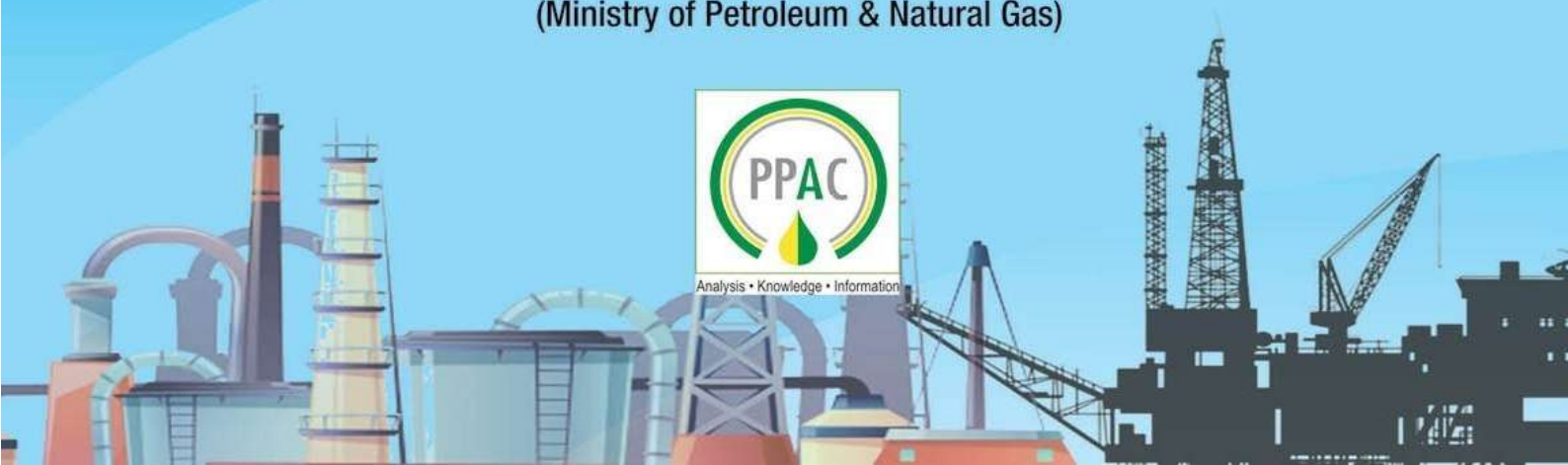
September 2021

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)



Analysis • Knowledge • Information



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As on 20.10.2021

Petroleum Planning & Analysis Cell (PPAC), an attached office of the Ministry of Petroleum & Natural Gas (MoPNG), Government of India, collects and analyses data on the Oil and Gas sector. It disseminates many reports on the Oil & Gas sector to the various stakeholders. The data is obtained from the Public Sector companies, Government agencies as well as the Private companies. Given the ever-increasing demand for energy and transition of energy demand to renewables and Biofuels, Policy makers and Analysts need to be well informed about the updated trends in the Oil & Gas industry.

The PPAC's Snapshot of India's Oil & Gas data (Abridged Ready Reckoner) provides a comprehensive compilation of the latest data/information in a single volume for the latest month and historical time series. The Snapshot of India's Oil & Gas data is also published on PPAC's website (www.ppac.gov.in) and is accessible on mobile app-PPACE.

This publication is a concerted effort by all divisions of PPAC. The cooperation of the oil and gas industry is acknowledged for their timely inputs.

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Highlights for the month

- The consumption of petroleum products during April-September 2021 with a volume of 95.6 MMT reported a growth of 11.3% compared to the volume of 85.9 MMT during the same period of the previous year. Except SKO & petcoke all other petroleum products reported a growth in consumption during April-September 2021 compared to the same period of the previous year. The consumption of petroleum products during September 2021 recorded a growth of 5.2% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during September 2021 was lower by 1.7 % than that of September 2020 as compared to a de-growth of 2.3% during August 2021. OIL registered a growth of 0.22 % and ONGC registered a de-growth of 3.3 % during September 2021 as compared to September 2020. PSC registered growth of 1.8 % during September 2021 as compared to September 2020. De-growth of 2.9 % was registered in the total crude oil and condensate production during April- September 2021 over the corresponding period of the previous year.
- Total consumption of natural gas (including internal consumption) for the month of September 2021 was 5485 MMSCM which was 7.9% higher than the corresponding month of the previous year. The cumulative consumption of 32147 MMSCM for the current year till September 2021 was higher by 9.8% compared with the corresponding period of the previous year.
- Crude oil processed during September 2021 was 18.2 MMT, which was 2.9 % higher than September 2020 as compared to a growth of 14.2 % during August 2021. Growth of 13.1 % was registered in the total crude oil processing during April-September 2021 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 6.1 % during September 2021 over September 2020 as compared to a growth of 9.1 % during August 2021. Growth of 11.0 % was registered in the total POL production during April- September 2021 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 6.6% during September 2021 and cumulative during December 2020- September 2021 was 7.9%.

•	Gross production of natural gas for the month of September 2021 was 2902 MMSCM which was higher by 26.5% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 16891 MMSCM for the current financial year till September, 2021 was higher by 21% compared with the corresponding period of the previous year.
•	Crude oil imports increased by 14.7% and 12.9% during September 2021 and April-September 2021 respectively as compared to the corresponding period of the previous year.
•	POL products imports increased by 22.4% and decreased by 4.8% during September 2021 and April-September 2021 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-September 2021 was due to decrease in imports of petcoke, high speed diesel (HSD), superior kerosene oil (SKO) and aviation turbine fuel (ATF).
•	LNG import for the month of September, 2021(P) was 2645 MMSCM which was 7.4% lower than the corresponding month of the previous year. The cumulative import of 15678 MMSCM for the current year till September, 2021 was lower by 0.8% compared with the corresponding period of the previous year.
•	Exports of POL products increased by 0.9% during September 2021 as compared to the corresponding period of the previous year. The total POL products exports during April-September 2021 remained approximately the same as compared to the corresponding period of the previous year. However, there was a decrease in exports of high-speed diesel (HSD), petcoke/CBFS and LOBS/Lube oil etc. during April-September 2021 as compared to the corresponding period of the previous year.
•	The price of Brent Crude averaged \$74.58/bbl during September,2021 as against \$70.81/bbl during August 2021 and \$40.81/bbl during September 2020. The Indian basket crude price averaged \$73.13/bbl during September 2021 as against \$69.80/bbl during August 2021 and \$41.35 /bbl during September 2020.



PART-A

Economic Indicators

1. Selected indicators of the Indian economy

Economic indicators		Unit/ Base	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Population (Census 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	8.3	6.8 3rd RE	6.5 2nd RE	4.0 1st RE	-7.3 PE	20.1 E (Q1, 2021-22)
3	Agricultural Production (Food grains)	MMT	275.1	285.0	285.2	297.5	308.7 4th AE	150.5 1st AE (Kharif)
		Growth %	9.4	3.6	0.1	4.3	3.7	-
4	Gross Fiscal Deficit (as percent of GDP)	%	3.5	3.5	3.4	4.6	9.5 RE	6.8 BE

Economic indicators		Unit/ Base	2019-20	2020-21 (P)	September		April-September	
					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	-7.1*	11.9* QE	-25.0 [#]	28.6 [#]
6	Imports	\$ Billion	474.7	394.4	30.5	56.4	151.9	276.0
7	Exports	\$ Billion	313.4	291.8	27.6	33.8	125.6	197.9
8	Trade Balance	\$ Billion	-161.3	-102.6	-3.0	-22.6	-26.3	-78.1
9	Foreign Exchange Reserves [@]	\$ Billion	475.6	579.3	542.0	638.6	-	-

IIP is for the month of *August and #April-August; @2019-20-as on March 27, 2019, 2020-21-as on March 26, 2021, September 2020- as on September 25, 2020 and September 2021-as on September 24, 2021; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

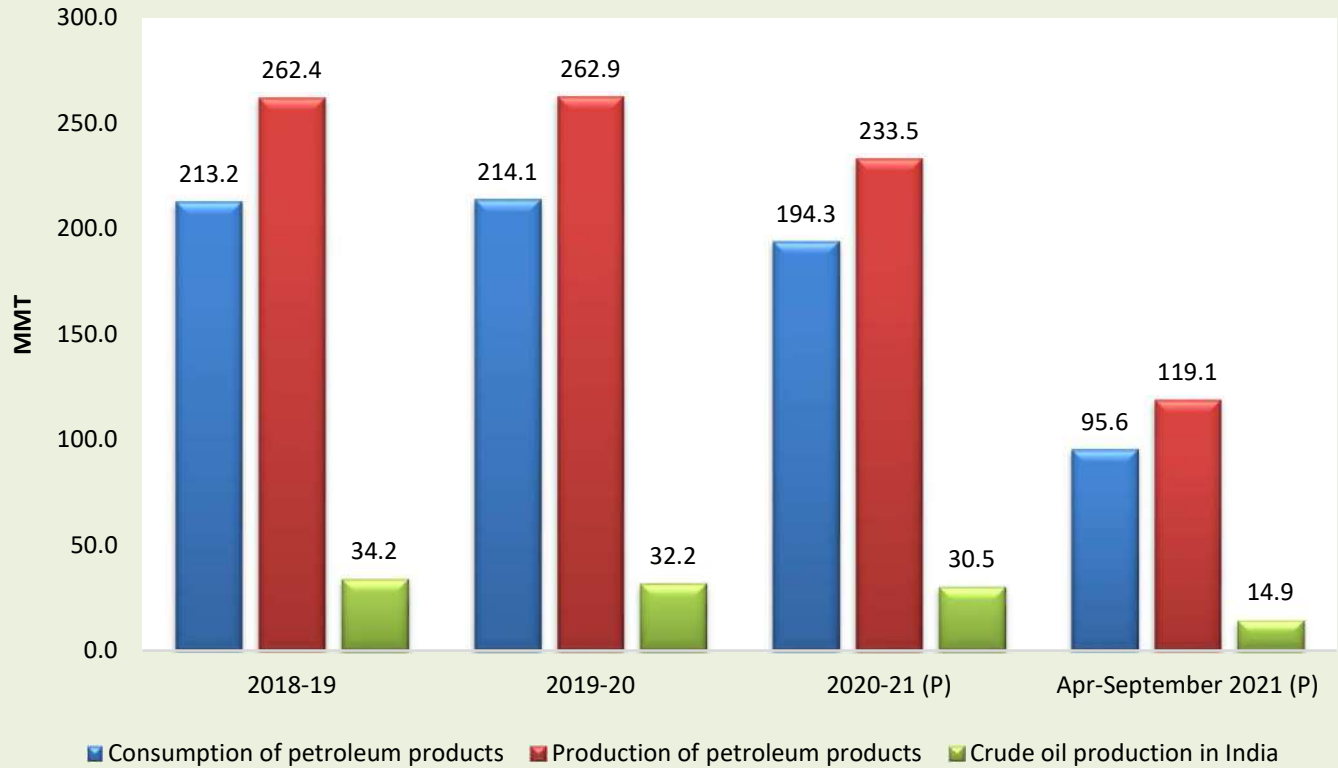
Source: Ministry of Commerce & Industry, Ministry of Statistics and Programme Implementation, Ministry of Agriculture & Farmer's Welfare, Ministry of Finance, Reserve Bank of India

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

Details		Unit/ Base	2019-20	2020-21 (P)	September		April-September	
					2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
1	Crude oil production in India [#]	MMT	32.2	30.5	2.5	2.4	15.4	14.9
2	Consumption of petroleum products*	MMT	214.1	194.3	15.1	15.9	85.9	95.6
3	Production of petroleum products	MMT	262.9	233.5	18.0	19.1	107.3	119.1
4	Gross natural gas production	MMSCM	31,184	28,672	2,294	2,902	13,954	16,891
5	Natural gas consumption	MMSCM	64,144	60,645	5,083	5,485	29,290	32,147
6	Imports & exports:							
	Crude oil imports	MMT	227.0	196.5	15.2	17.4	89.2	100.7
		\$ Billion	101.4	62.2	4.7	9.2	22.4	51.0
	Petroleum products (POL) imports*	MMT	43.8	43.2	3.1	3.8	20.9	19.9
		\$ Billion	17.7	14.8	1.0	1.9	5.7	10.2
	Gross petroleum imports (Crude + POL)	MMT	270.7	241.6	18.3	21.2	110.1	120.6
		\$ Billion	119.1	76.9	5.7	11.1	28.2	61.2
	Petroleum products (POL) export	MMT	65.7	56.8	4.8	4.8	29.5	29.5
		\$ Billion	35.8	21.4	1.8	3.0	8.9	17.7
	LNG imports*	MMSCM	33,887	32,861	2,855	2,645	15,798	15,678
		\$ Billion	9.5	7.4	0.6	1.1	3.1	5.3
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	18.6	19.6	18.5	22.2
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	6.4	8.8	7.1	8.9
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	83.8	84.1	82.4	84.8

[#]Includes condensate; *Private direct imports are prorated for the period Aug-2021 to Sep-2021; RIL data prorated for Sep-2021

Crude Oil & Petroleum Products (MMT)





PART-B

Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2019-20	2020-21	September			April-September		
			2020-21	2021-22 Target*	2021-22 (P)	2020-21	2021-22 Target*	2021-22 (P)
ONGC	19.2	19.1	1.6	1.7	1.5	9.6	10.1	9.2
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.2	1.5	1.5	1.5
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.6	0.6	3.6	3.8	3.6
Total Crude Oil	30.5	29.1	2.4	2.6	2.3	14.7	15.5	14.3
ONGC condensate	1.4	1.1	0.1		0.1	0.6		0.5
PSC condensate	0.3	0.3	0.02		0.03	0.12		0.16
Total condensate	1.6	1.4	0.1		0.1	0.7		0.6
Total (Crude + Condensate) (MMT)	32.2	30.5	2.5	2.6	2.4	15.4	15.5	14.9
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.61		0.60	0.62		0.60

*Provisional targets inclusive of condensate.

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

Details	2019-20	2020-21	September		April-September	
			2020-21	2021-22 (P)	2020-21	2021-22 (P)
Total domestic production (MMTOE)	63.4	59.2	4.8	5.3	29.3	31.8
Overseas production (MMTOE)	24.5	21.9	1.7	1.8	11.0	11.0
Overseas production as percentage of domestic production	38.7%	37.0%	36.2%	33.4%	37.5%	34.6%

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

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

Details		2019-20	2020-21	September		April-September	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	High Sulphur crude	192.4	161.4	13.2	13.8	73.1	85.1
2	Low Sulphur crude	62.0	60.3	4.5	4.4	27.1	28.2
Total crude processed (MMT)		254.4	221.8	17.7	18.2	100.2	113.3
Total crude processed (Million Bbl/Day)		5.09	4.45	4.33	4.45	4.01	4.54
Percentage share of HS crude in total crude oil processing		75.6%	72.8%	74.4%	75.9%	73.0%	75.1%

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2019-20	227.0	1,01,376	7,17,001
2020-21	196.5	62,248	4,59,779

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

Particulars		2019-20	2020-21	September		April-September	
				2020-21	2021-22 (P)	2020-21	2021-22 (P)
1	Indigenous crude oil processing	29.3	28.0	2.3	2.3	13.9	13.3
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.1	2.2	13.0	12.4
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.3	0.3	2.1	2.1
4	Total production from indigenous crude & condensate (2 + 3)	32.1	30.3	2.4	2.5	15.1	14.5
5	Total domestic consumption	214.1	194.3	15.1	15.9	85.9	95.6
% Self-sufficiency (4 / 5)		15.0%	15.6%	16.2%	15.9%	17.6%	15.2%

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

Company	Refinery	Installed capacity (1.10.2021) MMTPA	Crude oil processing (MMT)							
			2019-20	2020-21	September			April-September		
					2020-21	2021-22 (Target)	2021-22 (P)	2020-21	2021-22 (Target)	2021-22 (P)
IOCL	Barauni (1964)	6.0	6.5	5.5	0.4	0.6	0.1	2.2	2.8	2.4
	Koyali (1965)	13.7	13.1	11.6	0.9	1.2	1.0	5.2	7.3	6.3
	Haldia (1975)	8.0	6.5	6.8	0.4	0.7	0.6	2.7	4.2	3.9
	Mathura (1982)	8.0	8.9	8.9	0.6	0.7	0.7	4.0	4.5	4.2
	Panipat (1998)	15.0	15.0	13.2	1.0	1.3	1.1	5.7	7.9	7.3
	Guwahati (1962)	1.0	0.9	0.8	0.07	0.1	0.1	0.34	0.3	0.2
	Digboi (1901)	0.65	0.7	0.6	0.05	0.06	0.06	0.3	0.3	0.4
	Bongaigaon(1979)	2.35	2.0	2.5	0.2	0.2	0.2	1.2	1.3	1.4
	Paradip (2016)	15.0	15.8	12.5	1.0	0.6	0.8	5.2	5.9	6.0
	IOCL-TOTAL	69.7	69.4	62.4	4.7	5.4	4.7	26.9	34.5	32.0
CPCL	Manali (1969)	10.5	10.2	8.2	0.8	0.9	0.5	3.4	4.5	4.0
	CBR (1993)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CPCL-TOTAL	11.5	10.2	8.2	0.8	0.9	0.5	3.4	4.5	4.0
BPCL	Mumbai (1955)	12.0	15.0	12.9	0.9	1.3	1.0	5.5	7.6	6.9
	Kochi (1966)	15.5	16.5	13.3	1.0	1.3	1.3	5.2	8.3	6.8
BORL	Bina (2011)	7.8	7.9	6.2	0.5	0.6	0.6	2.5	3.5	3.4
	BPCL-TOTAL	35.3	39.4	32.4	2.4	3.2	2.9	13.2	19.3	17.1
NRL	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.2	1.3	1.3	1.3

Company	Refinery	Installed capacity (1.10.2021) (MMTPA)	Crude oil processing (MMT)							
			2019-20	2020-21	September			Apr-September		
					2020-21	2021-22 (Target)	2021-22 (P)	2020-21	2021-22 (Target)	2021-22 (P)
ONGC	Tatipaka (2001)	0.066	0.087	0.081	0.007	0.005	0.007	0.038	0.030	0.036
MRPL	Mangalore (1996)	15.0	14.0	11.5	0.8	1.1	1.0	4.3	6.6	6.2
	ONGC-TOTAL	15.1	14.0	11.6	0.8	1.1	1.0	4.4	6.6	6.2
HPCL	Mumbai (1954)	7.5	8.1	7.4	0.7	0.7	0.4	3.7	2.8	1.5
	Visakh (1957)	8.3	9.1	9.1	0.7	0.5	0.5	4.3	4.4	3.5
HMEL	Bathinda (2012)	11.3	12.2	10.1	1.0	0.9	1.1	5.1	5.5	6.5
	HPCL- TOTAL	27.1	29.4	26.5	2.4	2.1	2.0	13.2	12.8	11.6
RIL	Jamnagar (DTA) (1999)	33.0	33.0	34.1	2.8	2.8	2.8	16.8	16.8	16.8
	Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.2	2.2	2.4	12.2	12.2	14.3
NEL	Vadinar (2006)	20.0	20.6	17.1	1.5	1.5	1.7	8.9	8.9	10.0
All India (MMT)		249.9	254.4	221.8	17.7	19.4	18.2	100.2	117.0	113.3
All India (Million Bbl/Day)		5.02	5.09	4.45	4.33		4.45	4.01		4.54

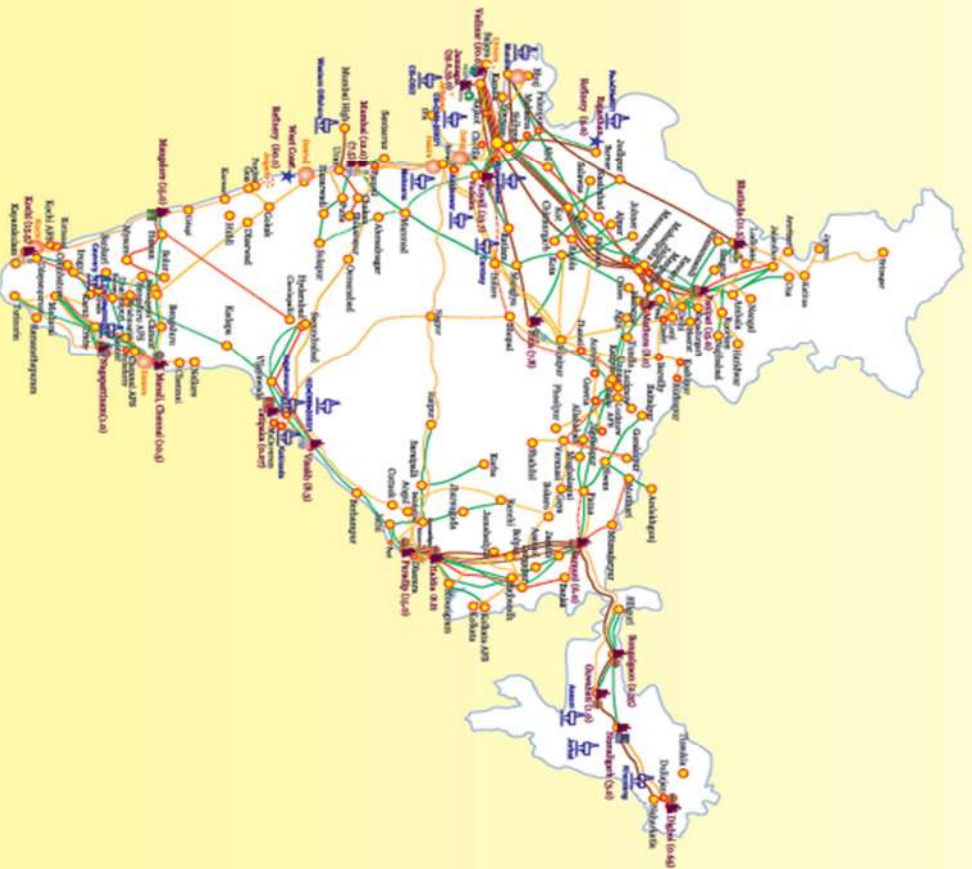
Note: Provisional Targets; Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network (as on 01.10.2021)

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	2,241	3,775	2,395	18,465
	Cap (MMTPA)		1.7			47.5	19.5	34.1	9.4	112.2

*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



Oilfield, Dabhol, Hazira, Kochi, Mundra, Ennore

★ (Upcoming Terminals) Durgam, Jambhal, Jijiga, Chivras

LEGENDS

Pipelines Network

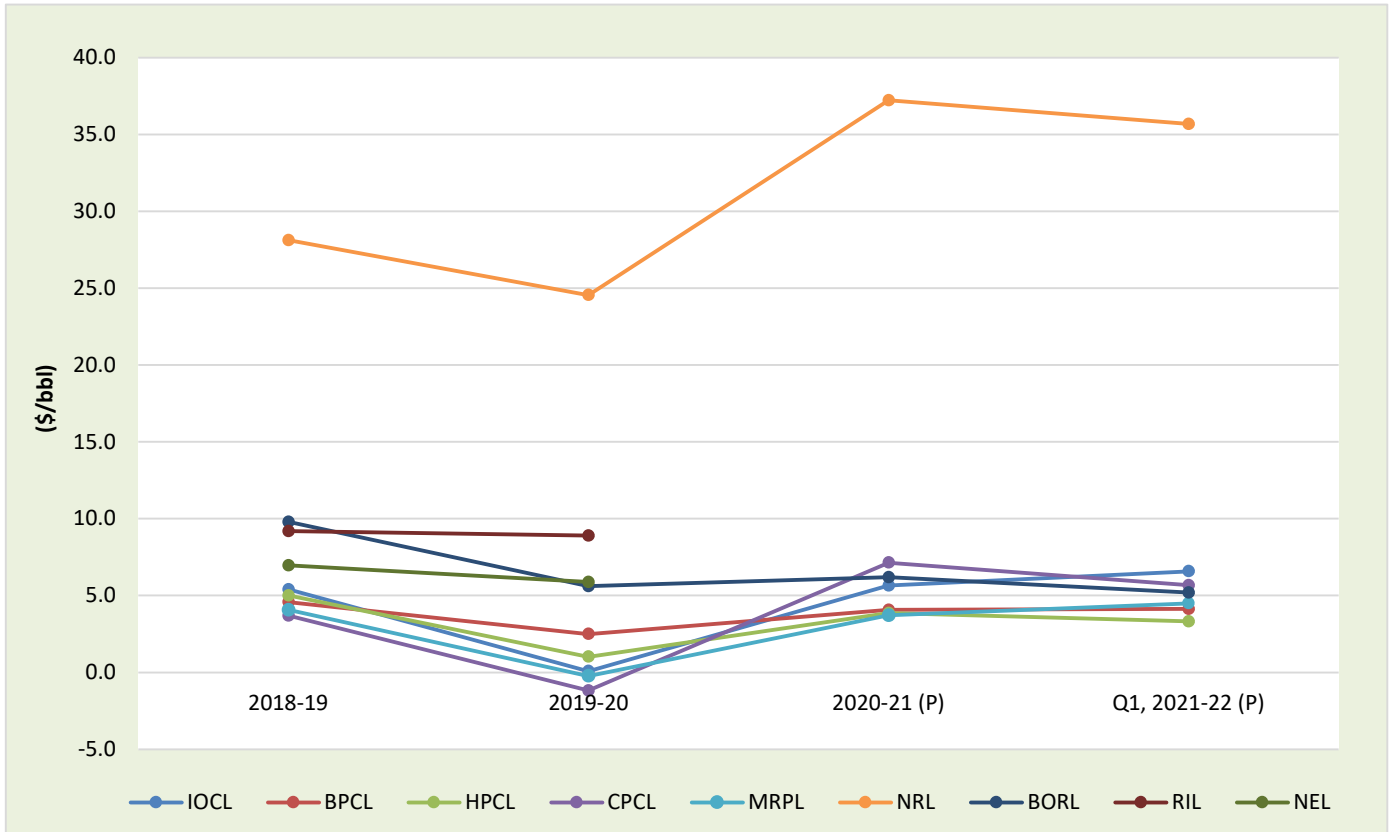
- Crude Oil Pipeline
- Output Crude Oil Pipeline
- Product Pipeline
- Output Product Pipeline
- LNG Pipeline
- Output LNG Pipeline
- Gas Pipeline
- Output Gas Pipeline

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

Company	2018-19	2019-20	2020-21 (P)	Q1, 2021-22 (P)
IOCL	5.41	0.08	5.64	6.58
BPCL	4.58	2.50	4.06	4.12
HPCL	5.01	1.02	3.86	3.31
CPCL	3.70	-1.18	7.14	5.68
MRPL	4.06	-0.23	3.71	4.50
NRL	28.11	24.55	37.23	35.68
BORL	9.80	5.60	6.20	5.20
RIL	9.20	8.90	*	*
NEL [@]	6.97	5.88	*	*

*Not available; [@]Nayara Energy Limited (formerly Essar Oil Limited)

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





PART-C

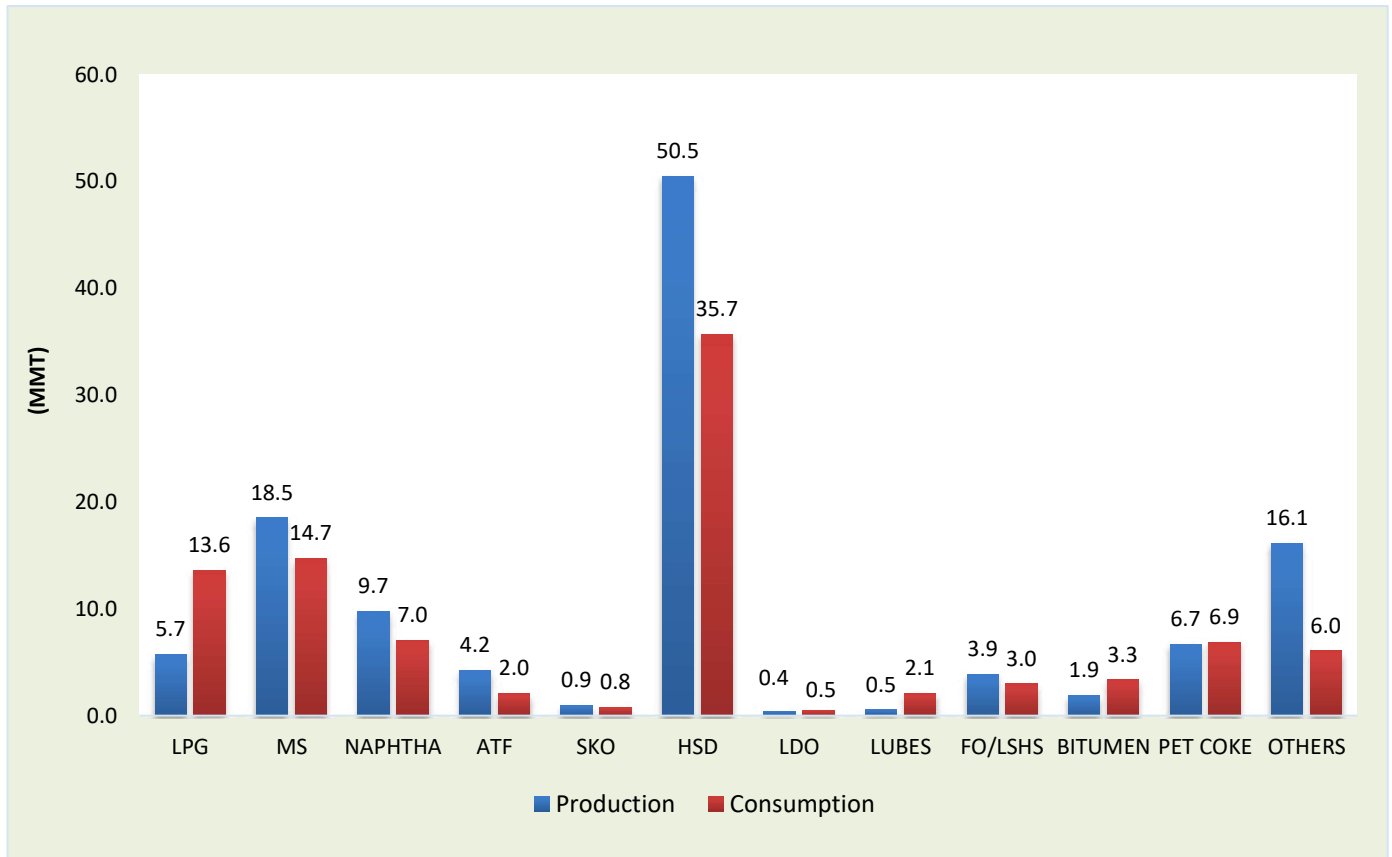
Consumption

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

Products	2019-20		2020-21		September 2020		September 2021 (P)		Apr-Sep 2020		Apr-Sep 2021 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	26.3	12.1	27.6	0.9	2.3	0.9	2.4	5.7	13.3	5.7	13.6
MS	38.6	30.0	35.8	28.0	3.0	2.5	3.1	2.6	15.9	12.1	18.5	14.7
NAPHTHA	20.6	14.3	19.4	14.1	1.5	1.1	1.6	1.1	9.0	6.4	9.7	7.0
ATF	15.2	8.0	7.1	3.7	0.5	0.3	0.7	0.4	2.7	1.2	4.2	2.0
SKO	3.2	2.4	2.4	1.8	0.2	0.2	0.2	0.1	1.3	0.9	0.9	0.8
HSD	111.1	82.6	100.4	72.7	7.6	5.5	7.8	5.5	45.7	30.9	50.5	35.7
LDO	0.6	0.6	0.7	0.9	0.05	0.07	0.05	0.09	0.3	0.4	0.4	0.5
LUBES	0.9	3.8	1.1	4.1	0.1	0.4	0.1	0.4	0.4	1.7	0.5	2.1
FO/LSHS	9.3	6.3	7.4	5.6	0.5	0.5	0.7	0.5	3.7	2.6	3.9	3.0
BITUMEN	4.9	6.7	4.9	7.5	0.3	0.4	0.2	0.4	1.6	2.6	1.9	3.3
PET COKE	14.6	21.7	12.0	15.6	0.9	1.1	1.1	1.1	5.8	8.8	6.7	6.9
OTHERS	31.0	11.4	30.2	12.8	2.4	0.9	2.7	1.2	15.1	5.0	16.1	6.0
ALL INDIA	262.9	214.1	233.5	194.3	18.0	15.1	19.1	15.9	107.3	85.9	119.1	95.6
Growth (%)	0.2%	0.4%	-11.2%	-9.3%	-9.5%	-6.5%	6.1%	5.2%	-16.3%	-19.3%	11.0%	11.3%

Note: Prod - Production; Cons - Consumption

Petroleum Products: April-September 2021 (P) (MMT)



12. Kerosene allocation vs upliftment (Kilo Litres)

Product	2018-19		2019-20		2020-21		2021-22 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	44,32,994	41,52,112	31,21,328	27,93,217	23,15,008	20,38,790	8,91,408	8,55,392

* Allocation and upliftment are for Apr-Sep 2021.

13. Ethanol blending programme

Particulars	Ethanol Supply Year *				
	2017-18	2018-19	2019-20	2020-21 (P)	
				Sep-21	Dec'20-Sep'21
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	150.5	188.6	173.0	20.9	255.9
Average Percentage of Blending Sales (EBP%)	4.2%	5.0%	5.0%	6.6%	7.9%

*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 01.10.2021) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL/RBML	NEL	SHELL	Others	Total
POL Terminal/ Depots (Nos.) [§]	117	80	80	18	3		6	304
Aviation Fuel Stations (Nos.) [@]	122	61	47	31			1	262
Retail Outlets (total) (Nos.) [^]	32,888	19,251	19,216	1,431	6,313	291	37	79,427
out of which Rural ROs	10,312	4,510	4,716	130	2,020	68	3	21,759
SKO/LDO agencies (Nos.)	3,871	930	1,638					6,439
LPG Distributors (total) (Nos.) (PSUs only)	12,766	6,182	6,208					25,156
LPG Bottling plants (Nos.) (PSUs only) [#]	92	53	51				3	199
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	10,304	4,890	5,912				203	21,309
LPG active domestic consumers (Nos. crore) (PSUs only)	13.8	7.6	8.1					29.6

[§](Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL); [^](Others=27 MRPL & 10 RSIL); [#](Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-60, OIL-23, CPCL-120); RBML-Reliance BP Mobility Limited; RSIL-RBML Solutions India Ltd.



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PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)

LPG category	2019-20	2020-21	September			April-September		
			2020-21	2021-22 (P)	Gr (%)	2020-21	2021-22 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	23,076.0	25,128.1	2,053.9	2,110.5	2.8	12,414.1	12,308.1	-0.9
LPG-Packed Non-Domestic	2,614.4	1,886.0	155.1	204.0	31.5	636.8	994.9	56.2
LPG-Bulk	263.5	361.9	35.0	29.6	-15.4	141.0	176.9	25.5
Auto LPG	171.9	118.4	11.1	11.6	4.1	43.4	56.7	30.6
Sub-Total (PSU Sales)	26,125.7	27,494.3	2,255.2	2,355.8	4.5	13,235.3	13,536.6	2.3
2. Direct Private Imports*	204.0	64.2	6.2	6.8	9.6	19.1	43.8	129.3
Total (1+2)	26,329.8	27,558.4	2,261.4	2,362.5	4.5	13,254.4	13,580.4	2.5

*Aug -Sep 2021 DGCIS data are prorated

16. LPG marketing at a glance

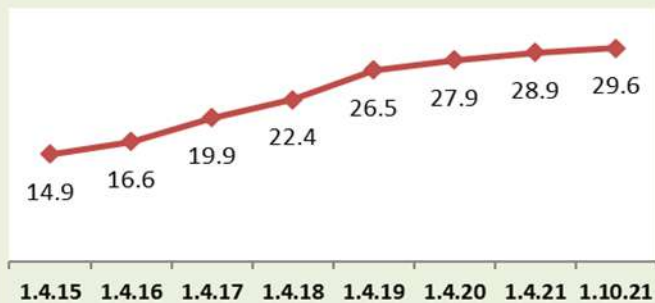
Particulars (As on 1st of April)	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1.10.21 (P)
LPG Active Domestic Customers	(Lakh)						1486	1663	1988	2243	2654	2787	2895	2957
	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	3.9%
LPG Coverage (Estimated)	(Percent)						56.2	61.9	72.8	80.9	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	832.9
	Growth									77.7%	101.9%	11.5%	-0.2%	3.9%
LPG Distributors	(No.)	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25156
	Growth	3.4%	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	1.3%
Auto LPG Dispensing Stations	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	634
	Growth	19.9%	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-3.5%
Bottling Plants	(No.)	182	183	184	185	187	187	188	189	190	192	196	200	199
	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%	0.5%

Source: PSU OMCs (IOCL, BPCL and HPCL)

1. Growth rates as on 1.10.2021 are w.r.t. figures as on 1.10.2020. All growth rates as on 1 April of any year are w.r.t. figures as on 1 April of previous year.

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

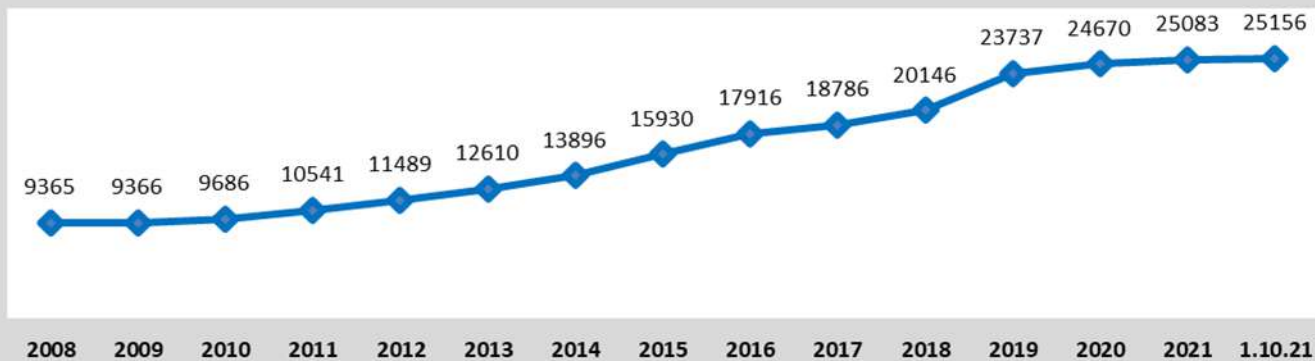
**Growth trend in active LPG domestic customers
(In Crore)**



Growth trend in LPG coverage



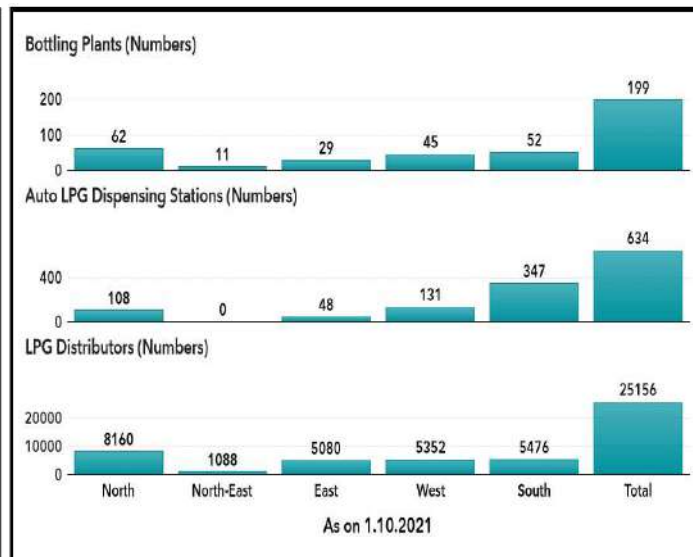
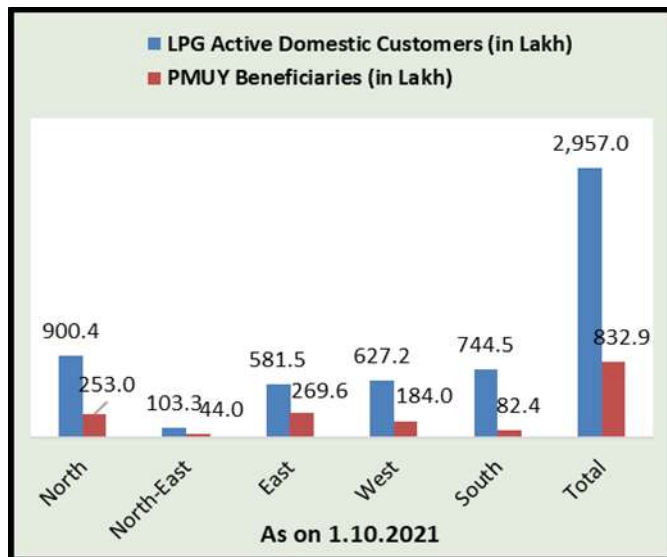
Growth trend in LPG distributors



17-Region-wise data on LPG marketing (As on 01.10.2021)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	900.4	103.3	581.5	627.2	744.5	2957.0
PMUY Beneficiaries (in Lakh)	253.0	44.0	269.6	184.0	82.4	832.9
LPG Distributors (Numbers)	8160	1088	5080	5352	5476	25156
Auto LPG Dispensing Stations (Numbers)	108	0	48	131	347	634
Bottling Plants* (Numbers)	62	11	29	45	52	199

*Includes Numaligarh BP, Duliajan BP and CPCL BP.





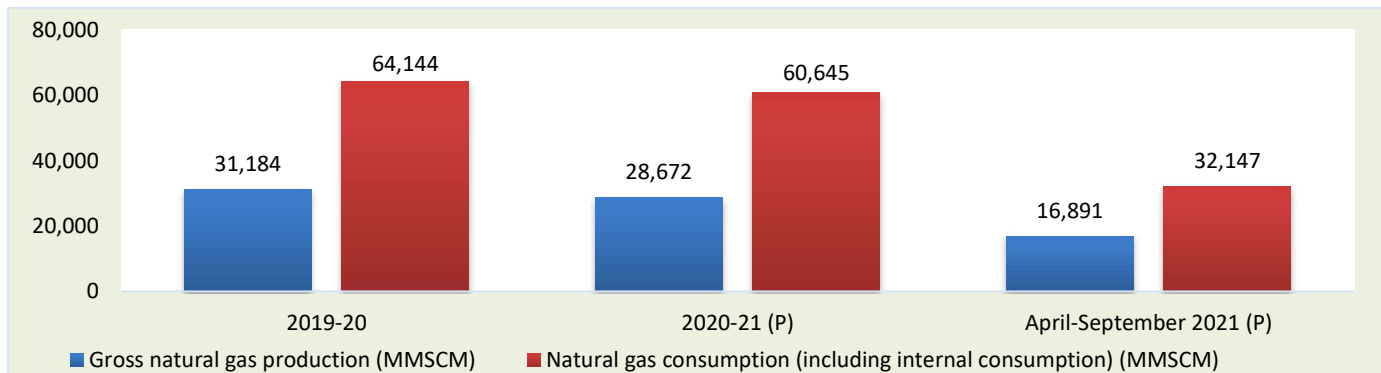
PART-E

Natural Gas

18. Natural gas at a glance

Details	2019-20	2020-21 (P)	September			April-September		
			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	2,294	3,171	2,902
- ONGC	23,746	21,872	1,783	1,934	1,730	10,979	11,530	10,256
- Oil India Limited (OIL)	2,668	2,480	201	243	254	1,242	1,478	1,434
- Private / Joint Ventures (JVs)	4,770	4,321	310	994	918	1,733	5,105	5,200
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,228		2,840	13,492		16,469
(c) LNG import [#]	33,887	32,861	2,855		2,645	15,798		15,678
(d) Total consumption including internal consumption (b+c)	64,144	60,645	5,083		5,485	29,290		32,147
(e) Total consumption (in BCM)	64.1	60.6	5.1		5.5	29.3		32.1
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.2	56.2		48.2	53.9		48.8

#Jul 2020-Aug 2021 DGCIS data prorated; RIL 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-September 2021 (P)	344.62
Production of CBM gas	September 2021 (P)	57.04
		MMSCM
		MMSCM

20. Natural gas pipeline network as on 31.03.2021

Nature of pipeline		GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	8,242	2,265	1,459	132	105	312	73	42	24				12,653
	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				337.3
Partially commissioned#	Length	8,071			1,431						2,590	365		12,457
	Capacity	121.0												-
Total operational length		16,313	2,265	1,459	1,563	105	312	73	42	24	2,590	365	0	25,110
Under construction	Length	2,445									90	1,446	3,550	7,531
	Capacity	23.2											149.0	-
Total length		18,758	2,265	1,459	1,563	105	312	73	42	24	2,680	1,811	3,550	32,641

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 01.10.2021	% Capacity utilisation (Apr-Aug 2021)
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	92.1
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	74.0
Dabhol	Konkan LNG Limited	*5 MMTPA	42.8
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	22.7
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	15.0
Mundra	GSPC LNG Limited	5 MMTPA	21.2
Total Capacity		42.5 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 31.08.2021(P)

State/UT (State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	PNG connections		
		Domestic	Commercial	Industrial
Andhra Pradesh	89	2,18,592	309	20
Andhra Pradesh, Karnataka & Tamil Nadu	0	0	0	1
Assam	1	37,990	1,212	412
Bihar	17	36,851	11	1
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	20	21,124	52	12
Dadra & Nagar Haveli (UT)	7	6,807	43	45
Daman & Diu (UT)	4	4,862	32	31
Daman and Diu & Gujarat	10	1	1	0
Goa	8	6,781	6	15
Gujarat	823	24,97,495	20,592	5,604
Haryana	182	2,03,671	585	1,064
Haryana & Himachal Pradesh	5	0	0	0
Haryana & Punjab	9	0	0	0
Himachal Pradesh	1	1,000	0	0
Jharkhand	34	50,051	0	0
Karnataka	85	2,81,627	435	219
Kerala	33	16,609	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	115	1,09,420	190	292
Madhya Pradesh and Rajasthan	13	0	0	0
Madhya Pradesh and Uttar Pradesh	7	0	0	0
Maharashtra	478	20,70,683	4,533	436
Maharashtra & Gujarat	38	46,621	0	0
National Capital Territory of Delhi (UT)	434	10,90,705	2,789	1,639
Odisha	25	35,534	0	0
Puducherry & Tamil Nadu	3	0	0	0
Punjab	102	14,163	87	80
Rajasthan	82	72,790	19	98
Tamil Nadu	57	0	0	0
Telangana	104	1,53,247	39	57
Tripura	18	50,821	497	62
Uttar Pradesh	487	9,80,282	1,619	1,950
Uttar Pradesh & Rajasthan	31	18,330	1	341
Uttar Pradesh and Uttrakhand	9	0	0	0
Uttrakhand	16	48,206	35	52
West Bengal	21	0	0	0
Total	3,370	80,74,263	33,102	12,443

Source: PNGRB & GEECL

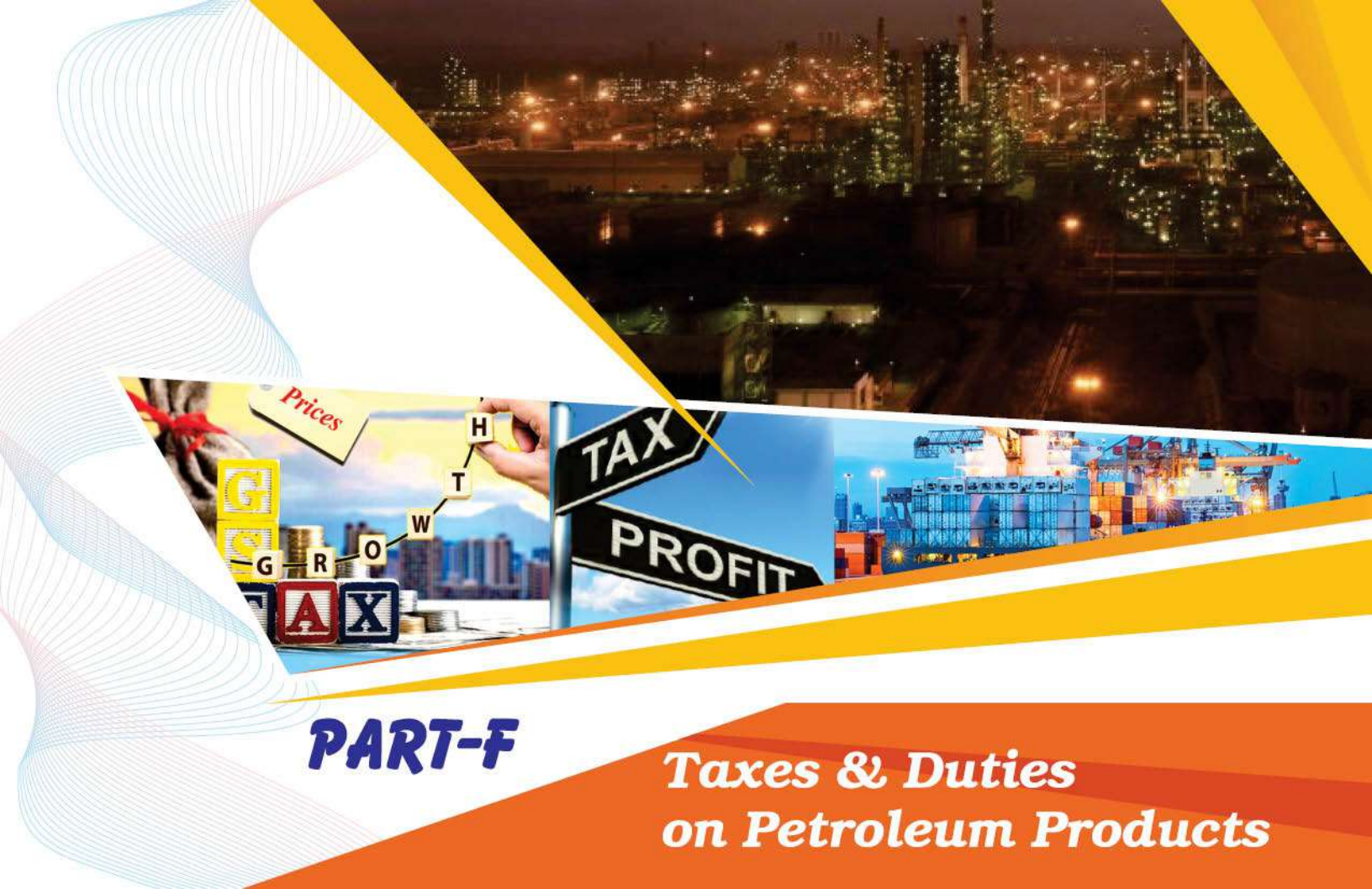
Note: 1. All the GAs where PNG connections/CNG Stations have been established is considered as Operational, 2. Under normal conditions. Operation of any particular GA commences within around one year of authorization. 3. State/UTs wherever clubbed are based on the GAs authorised by PNGRB.

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	49.76	35.11	W.E.F FROM 13.10.2021
Mumbai	57.54	33.93 39.53	SLAB-1(0.0-0.60 SCMD) SLAB-2(0.61-1.50 SCMD) W.E.F FROM 14.10.2021



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)		
International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)		
Particulars	2019-20	2020-21	September 2021	Particulars	Petrol*	Diesel*
Crude oil (Indian Basket)	60.47	44.82	73.13	Price charged to dealers (excluding Excise Duty and VAT)	41.63	42.58
Petrol	66.94	47.68	82.08	Excise Duty	32.90	31.80
Diesel	71.78	47.86	80.79	Dealers' Commission (Average)	3.85	2.60
Kerosene	70.56	43.60	77.85	VAT (incl VAT on dealers' commission)	23.51	13.19
LPG (\$/MT)	453.75	415.17	665.00	Retail Selling Price	101.89	90.17
FO (\$/MT)	321.19	259.30	455.13			
Naphtha (\$/MT)	471.08	378.93	661.83			
Exchange (Rs./\$)	70.88	74.20	73.56			
Customs, excise duty & GST rates						
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO*	Subsidised Domestic LPG*
Petrol	2.50%	Rs 32.90/Ltr [^]	**	Price before taxes and dealers'/distributors' commission	38.47	780.52
Diesel	2.50%	Rs 31.80/Ltr [^]	**	Dealers'/distributors' commission	2.64	61.84
PDS SKO	Nil	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	2.06	42.14
Non-PDS SKO	5.00%		18.00%	Retail Selling Price	43.17	884.50
Domestic LPG	Nil***		5.00%			
Non Domestic LPG	5.00%		18.00%			
Furnace Oil (Non-Fert)	5.00%		18.00%			
Naphtha (Non-Fert)	2.5% [^]		18.00%			
ATF	5.00%		11% *	**		
Crude Oil	Rs.1/MT+ Rs.50/-MT as NCCD	Rs.1/MT+ Cess@20% + Rs.50 /-MT NCCD	**			

*2% for scheduled commuter airlines from regional connectivity scheme airports

** GST Council shall recommend the date on which GST shall be levied on petroleum crude, HSD, MS, natural gas and ATF; # Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST.*** Customs duty is Nil for import of Domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Customs duty rate is 5% for other importers of domestic LPG.[^]Effective 2.2.2021

*Petrol and Diesel at Delhi as per IOCL are as on 1st October 2021. PDS SKO at Mumbai as on 1st October 2021 and Subsidised Domestic LPG at Delhi as on 1st October 2021.

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

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

#DBTK subsidy excludes cash incentive/ assistance for establishment of institutional 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 (P)
	Rs./Crore		
DBTL subsidy	31,447	22,635	3,559
PME & IEC [^]	92	91	99
Total	31,539	22,726	3,658

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

Sales & profit of petroleum sector (Rs. Crores)				
Particulars	2020-21		Q1-2021-22 (P)	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	1,32,830	17,878	43,268	6,373
Downstream Companies (PSU)	10,80,618	51,542	3,21,050	9,238
Standalone Refineries (PSU)	1,11,330	3,033	32,793	646
Private-RIL	2,78,940	31,944	94,803	8,595

Borrowings of OMCs (Rs. Crores), As on

Company	Mar`20	Mar`21	June`21 (P)
IOCL	1,16,545	1,02,327	85,720
BPCL	41,875	26,315	21,577
HPCL	43,021	40,009	35,197

Petroleum sector contribution to Central/State Govt.

Particulars	2019-20	2020-21 (P)	Q1-2021-22 (P)
Central Government	3,34,315	4,55,069	90,750
% of total revenue receipts	20%	29%	
State Governments	2,21,056	2,17,650	61,614
% of total revenue receipts	8%	7%	
Total (Rs. Crores)	5,55,370	6,72,719	1,52,364

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

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

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



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-September
ONGC Ltd	28,738	30,115	26,441	29,800	10,689
ONGC Videsh Ltd (OVL)	6,013	5,363	5,351	8,380	2,513
Oil India Ltd (OIL)	3,702	3,724	12,802	4,108	1,979
GAIL (India) Ltd	5,958	4,381	5,560	5,861	2,823
Indian Oil Corp. Ltd. (IOCL)	26,548	28,316	27,195	28,547	10,824
Hindustan Petroleum Corp. Ltd (HPCL)	11,689	13,773	14,036	14,500	6,301
Bharat Petroleum Corp. Ltd (BPCL)	10,084	10,255	10,697	10,000	6,690
Mangalore Refinery & Petrochem Ltd (MRPL)	1,072	1,318	2,218	850	300
Chennai Petroleum Corp. Ltd (CPCL)	1,208	969	592	384	207
Numaligarh Refinery Ltd (NRL)	459	536	981	2,000	828
Balmer Lawrie Co. Ltd (BL)	125	40	42	40	10
Engineers India Ltd (EIL)	87	164	730	150	47
Total	95,684	98,955	1,06,642	1,04,620	43,211

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Totals may not tally due to roundoff.

27. Conversion factors and volume conversion

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

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

Petroleum Planning & Analysis Cell

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