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

Abridged Ready Reckoner

January, 2020

Petroleum Planning & Analysis Cell
(Ministry of Petroleum & Natural Gas)

As on 12.03.2020

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Highlights for the month

- Petroleum product consumption during the month of January 2020 registered a drop of 0.6%, as compared to January 2019. Except for SKO, HSD, LDO, FO/LSHS, bitumen, petcoke and products in ‘others’ category all other products registered a growth during January 2020. A growth of 1.4% was recorded in consumption for the period April 2019-January 2020 as compared to same period last year. While SKO, ATF, bitumen, FO/LSHS and naphtha recorded a drop, all others products recorded a growth during the period April 2019-January 2020.
- Top gainers in petroleum product consumption during the current month of January 2020 were naphtha 16.9%, Lubes & Greases 11.9%, LPG 6.1%, MS 3.5% and ATF 2.5%. Top gainers in consumption during the period April 2019 to January 2020 were MS 7.9%, LPG 7.4%,LDO 6.8%, Lubes & greases 4.8% and Petcoke 3.4%.
- Blending ethanol with MS during January 2020 was 4.5% and cumulative ethanol blending during December 2019 to January 2020 (supply year 2019-20) was 3.8%.
- SKO consumption registered a drop of 38.3% during January 2020 and a cumulative drop of 28.9% during April 2019-January 2020. This was mainly because of reduced PDS SKO allocations to the states and voluntary surrender of the allocation by some of the states. As of january 2020, state of Punjab, Haryana, Andhra Pradesh and all the UTs except UT of Jammu & Kashmir and UT of Ladakh have become kerosene (PDS) free.
- Total natural gas consumption (including internal consumption) for the month of January, 2020 was 5306 MMSCM which was 6.3% higher than the corresponding month of the previous year. The cumulative consumption of 53104 MMSCM for the current year till January, 2020 was higher by 3.9% compared with the corresponding period of the previous year.
- Indigenous crude oil and condensate production during January 2020 was lower by 5.3% than that of January 2019 as compared to a de-growth of 7.4% during December 2019. OIL and ONGC registered growth of 1.1% and 1.2% respectively during January 2020 as compared to January 2019. PSC fields registered a de-growth of 21.3% during January 2020 as compared to January 2019. On cumulative basis indigenous crude oil and condensate production of the country was lower by 6% during April 2019 - January 2020 as compared to the corresponding period of the previous year.
- Crude oil processed in refineries during January 2020 was 21.7 MMT, which was 1.2% lower than January 2019. On cumulative basis total crude oil processed was also lower by 1.2% during April - January 2020 as compared to the corresponding period of the previous year. Indian refineries processed 76.5% high Sulphur crude during January 2020 as compared to 74.4% during January 2019.

- Production of petroleum products saw a growth of 1.9% during January 2020 over January 2019 as compared to a growth of 3% during December 2019. On cumulative basis production of petroleum products saw a de-growth of 0.4% during April - January 2020 as compared to the corresponding period of the previous year.
- Gross production of natural gas for the month of January, 2020 was 2607 MMSCM which was lower by 8.3% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 26427 MMSCM for the current financial year till January, 2020 was lower by 3.9% compared with the corresponding period of the previous year.
- Crude oil imports increased by 0.9% during January 2020 as compared to January 2019. However, crude oil imports decreased by 0.9% during April 2019 - January 2020 as compared to the corresponding period of the previous year.
- POL products imports increased by 51.7% and 35.7% during January 2020 and April 2019 - January 2020 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April 2019 - January 2020 was due to increase in imports of all POL products except naphtha and aviation turbine fuel (ATF).
- LNG import for the month of January, 2020 was 2778 MMSCM which was 25.1% higher than the corresponding month of the previous year. The cumulative import of 27433 MMSCM for the current year till January, 2020 was higher by 12.9% compared with the corresponding period of the previous year.
- Exports of POL products increased by 2.3% and 6.4% during January 2020 and April 2019 - January 2020 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April 2019 - January 2020 was mainly due to increase in exports of naphtha and high speed diesel (HSD).
- The price of Brent Crude averaged $63.50/bbl during January, 2020 as against $67.02/bbl during December 2019 and $59.46/bbl during January 2019. The Indian basket crude price averaged $64.31/bbl during January 2020 as against $65.50/bbl during December 2019 and $59.27 /bbl during January 2019.

Part A: Economic Indicators

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	7.4	8.0 3rd RE	8.2 2nd RE	7.2 1st RE	6.8 PE	4.8 E (H1)
3	Agricultural Production (Food grains)	MMT	252.0	251.5	275.1	285.0	285.2	292.0 2nd AE
		Growth %	-4.9	-0.2	9.4	3.6	0.1	2.4
4	Gross Fiscal Deficit (as percent of GDP)	%	4.1	3.9	3.5	3.5	3.4 RE	3.4 BE

	Economic indicators	Unit/ Base	2017-18	2018-19	January		April-January	
					2018-19	2019-20	2018-19	2019-20
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.4	3.8	2.5*	-0.3* QE	4.7[#]	0.5[#]
6	Imports	$ Billion	465.6	514.1	41.5	41.1	433.8	398.5
7	Exports	$ Billion	303.5	330.1	26.4	26.0	270.5	265.3
8	Trade Balance	$ Billion	-162.1	-184.0	-15.1	-15.2	-163.3	-133.3
9	Foreign Exchange Reserves [@]	$ Billion	424.4	411.9	398.2	471.3	-	-

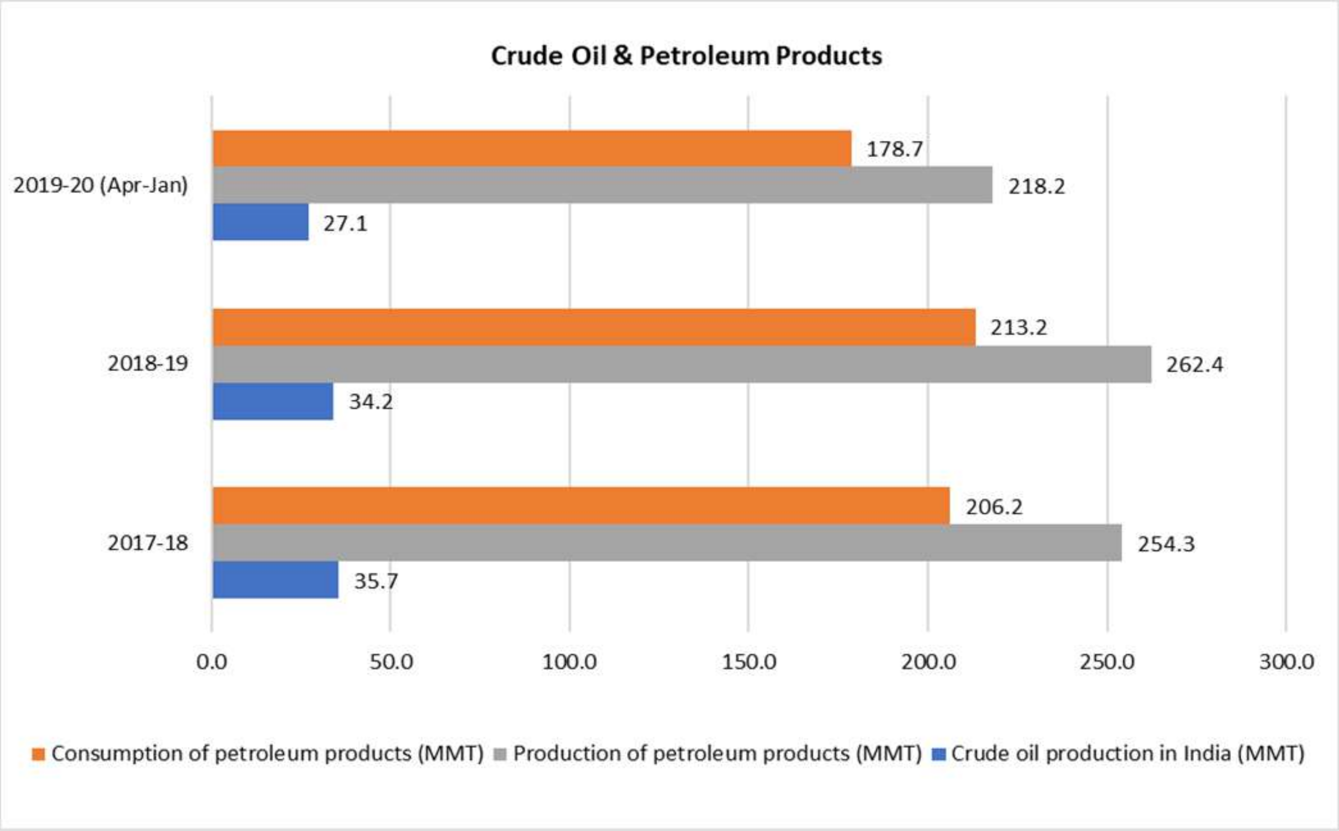
[@]Kharif 2018-19- 141.59 (1st AE); IIP is for the month of *December, [#]April-December; [@]2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, January 2019- as on January 25, 2019 and January 2020-as on January 31, 2020; E-Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates; FE: Final Estimates; PE: Provisional Estimates.

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

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

Details		Unit/ Base	2017-18	2018-19	January		April-January	
					2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Crude oil production in India	MMT	35.7	34.2	2.8	2.7	28.8	27.1
2	Consumption of petroleum products	MMT	206.2	213.2	18.5	18.4	176.2	178.7
3	Production of petroleum products	MMT	254.3	262.4	22.3	22.8	219.1	218.2
4	Gross natural gas production	MMSCM	32,649	32,875	2,841	2,607	27,492	26,427
5	Natural gas consumption	MMSCM	59,170	60,798	4,992	5,306	51,120	53,104
6	Imports & exports:							
	Crude oil imports	MMT	220.4	226.5	19.7	19.9	190.2	188.4
		$ Billion	87.8	111.9	8.3	9.4	95.3	87.7
	Petroleum products (POL) imports	MMT	35.5	33.3	3.0	4.6	26.4	35.8
		$ Billion	13.6	16.3	1.1	2.1	13.4	15.0
	Gross petroleum imports (Crude + POL)	MMT	255.9	259.8	22.7	24.4	216.6	224.2
		$ Billion	101.4	128.3	9.5	11.5	108.7	102.7
	Petroleum products exports	MMT	66.8	61.1	4.5	4.7	51.4	54.7
		$ Billion	34.9	38.2	2.4	2.6	32.6	31.3
	LNG imports	MMSCM	27,439	28,740	2,220	2,778	24,300	27,433
		$ Billion	8.1	10.3	0.8	0.8	8.8	7.9
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.8	24.9	22.8	28.1	25.1	25.8
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.5	11.6	8.9	10.2	12.0	11.8
9	Import dependency of crude (on consumption basis)	%	82.9	83.8	84.8	84.9	83.6	84.9

December 2019-January 2020 data prorated on the basis of December 2018 to November 2019 actual provisional data provided by DGCIS.
Note: Crude oil imports ($ Billion) during 2018-19 does not include value of crude oil quantity of 0.8 MMT imported at ISPRL, Mangalore.


Crude Oil & Petroleum Products
2019-20 (Apr-Jan)
178.7
218.2
27.1
2018-19
213.2
262.4
34.2
2017-18
206.2
254.3
35.7
0.0
50.0
100.0
150.0
200.0
250.0
300.0
Consumption of petroleum products (MMT)
Production of petroleum products (MMT)
Crude oil production in India (MMT)

Part B: Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2017-18	2018-19	January			April-January		
			2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	20.8	19.6	1.6	2.0	1.7	16.4	18.2	16.0
Oil India Limited (OIL)	3.4	3.3	0.3	0.3	0.3	2.8	2.9	2.6
Private / Joint Ventures (JVs)	9.9	9.6	0.8	0.8	0.6	8.1	8.0	7.1
Total Crude Oil	**34.0**	**32.5**	**2.7**	**3.1**	**2.6**	**27.3**	**29.0**	**25.7**
ONGC condensate	1.5	1.5	0.1		0.1	1.3		1.2
PSC condensate	0.2	0.2	0.03		0.03	0.2		0.2
Total condensate	**1.6**	**1.7**	**0.2**		**0.1**	**1.4**		**1.4**
Total (Crude + Condensate) (MMT)	**35.7**	**34.2**	**2.8**	**3.1**	**2.7**	**28.8**	**29.0**	**27.1**
Total (Crude + Condensate) (Million Bbl)	**261.6**	**250.7**	**20.9**	**22.6**	**19.8**	**211.0**	**212.7**	**198.4**

*Target is inclusive of condensate.

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

Details	2017-18	2018-19	January		April-January	
			2018-19	2019-20 (P)	2018-19	2019-20 (P)
Total domestic production (MMTOE)	68.3	67.1	5.7	5.3	56.3	53.5
Overseas production (MMTOE)	22.7	24.7	2.2	2.0	20.6	20.6
Overseas production as percentage of domestic production	**33.2%**	**36.8%**	**38.9%**	**38.3%**	**36.5%**	**38.4%**

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

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

Details		2017-18	2018-19	January		April-January	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	High Sulphur crude	188.4	194.2	16.3	16.6	162.5	159.5
2	Low Sulphur crude	63.6	63.0	5.6	5.1	52.2	52.6
Total crude processed		**251.9**	**257.2**	**21.9**	**21.7**	**214.6**	**212.1**
Percentage share of HS crude in total crude oil processing		**74.8%**	**75.5%**	**74.4%**	**76.5%**	**75.7%**	**75.2%**

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	$ Million	Rs. Crore
2018-19	226.5	1,11,915	7,83,183
2019-20 (Estimated)	225.0	105,580	7,43,894

Note: 2019-20 imports are estimated based on April 2019- December 2019 at actuals and for January 2020- March 2020 at average price of Indian basket crude oil $66/bbl and average exchange rate for Rs.71/$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for January 2020 - March 2020 :

If crude prices changes by one $/bbl	- Crude oil import bill changes by Rs. 2,936 crores
If exchange rate of Rs./$ changes by Rs. 1/$	- Crude oil import bill changes by Rs. 2,729 crores

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

Particulars		2017-18	2018-19	January		April-January	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Indigenous crude oil processing	32.8	31.7	2.6	2.6	26.6	24.6
2	Products from indigenous crude (93.3% of crude oil processed)	30.6	29.6	2.4	2.4	24.8	23.0
3	Products from fractionators (Including LPG and Gas)	4.6	4.9	0.4	0.4	4.1	4.0
4	Total production from indigenous crude & condensate **(2 + 3)**	35.2	34.5	2.8	2.8	28.9	26.9
5	Total domestic consumption	206.2	213.2	18.5	18.4	176.2	178.7
% Self-sufficiency (4 / 5)		**17.1%**	**16.2%**	**15.2%**	**15.1%**	**16.4%**	**15.1%**

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

Company	Refinery	Installed capacity (1.01.2020) MMTPA	Crude oil processing (MMT)							
			2017-18	2018-19	January			April-January		
					2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
IOCL	Barauni (1964)	6.0	5.8	6.7	0.6	0.6	0.6	5.5	5.6	5.5
	Koyali (1965)	13.7	13.8	13.5	1.2	1.3	1.3	11.4	11.0	10.7
	Haldia (1975)	7.5	7.7	8.0	0.6	0.7	0.3	6.6	5.8	5.4
	Mathura (1982)	8.0	9.2	9.7	0.7	0.8	0.4	8.1	7.2	7.4
	Panipat (1998)	15.0	15.7	15.3	1.4	1.4	1.4	13.7	12.9	12.5
	Guwahati (1962)	1.0	1.0	0.9	0.00	0.00	0.08	0.7	0.8	0.8
	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.06	0.6	0.6	0.5
	Bongaigaon(1979)	2.35	2.4	2.5	0.2	0.2	0.1	2.1	1.9	1.8
	Paradip (2016)	15.0	12.7	14.6	1.4	1.4	1.4	11.9	13.2	13.3
	IOCL-TOTAL	**69.2**	**69.0**	**71.8**	**6.2**	**6.6**	**5.6**	**60.6**	**59.0**	**58.0**
CPCL	Manali (1969)	10.5	10.3	10.3	1.0	0.9	0.9	8.5	8.6	8.6
	CBR (1993)	1.0	0.5	0.4	0.05	0.0	0.0	0.4	0.0	0.0
	CPCL-TOTAL	**11.5**	**10.8**	**10.7**	**1.0**	**0.9**	**0.9**	**8.8**	**8.6**	**8.6**
BPCL	Mumbai (1955)	12.0	14.1	14.8	1.2	1.3	1.4	12.2	12.2	12.4
	Kochi (1966)	15.5	14.1	16.1	1.5	1.4	1.5	13.3	13.5	13.8
BORL	Bina (2011)	7.8	6.7	5.7	0.7	0.7	0.7	4.4	6.5	6.5
NRL	Numaligarh (1999)	3.0	2.8	2.9	0.2	0.3	0.2	2.4	2.3	1.9
	BPCL-TOTAL	**38.3**	**37.7**	**39.4**	**3.7**	**3.6**	**3.7**	**32.3**	**34.5**	**34.6**

Company	Refinery	Installed capacity (1.1.2020) (MMTPA)	Crude oil processing (MMT)							
			2017-18	2018-19	January			April-January		
					2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	Tatipaka (2001)	0.066	0.080	0.066	0.007	0.004	0.009	0.051	0.038	0.075
MRPL	Mangalore (1996)	15.0	16.1	16.2	1.5	1.5	1.3	13.5	12.6	11.5
	ONGC-TOTAL	**15.1**	**16.2**	**16.3**	**1.5**	**1.5**	**1.3**	**13.5**	**12.6**	**11.5**
HPCL	Mumbai (1954)	7.5	8.6	8.7	0.7	0.8	0.7	7.2	5.8	6.6
	Visakh (1957)	8.3	9.6	9.8	0.8	0.8	0.8	8.1	7.6	7.5
HMEL	Bathinda (2012)	11.3	8.8	12.5	1.0	0.9	1.1	10.4	9.2	10.2
	HPCL- TOTAL	**27.1**	**27.1**	**30.9**	**2.5**	**2.5**	**2.6**	**25.7**	**22.6**	**24.4**
RIL	Jamnagar (DTA) (1999)	33.0	33.2	31.8	2.2	2.2	3.1	26.9	26.9	27.1
	Jamnagar (SEZ) (2008)	35.2	37.3	37.4	3.2	3.2	2.6	31.1	31.1	30.6
NEL	Vadinar (2006)	20.0	20.7	18.9	1.7	1.7	1.8	15.5	15.5	17.3
All India		**249.4**	**251.9**	**257.2**	**21.9**	**22.3**	**21.7**	**214.6**	**210.9**	**212.1**

Note: 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 01.02.2020)

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			9,104	2,241	3,775	2,395	**18,169**
	Cap (MMTPA)		1.7			46.0	19.5	34.7	9.4	**111.3**

*Others include GAIL and Petronet India. HPCL and BPCL lubes pipeline included in products pipeline data

Pipeline Network

Legend

━━━━	Crude Oil Pipeline
┅┅┅┅	Ongoing Crude Oil Pipeline
━━━━	Product Pipeline
┅┅┅┅	Ongoing Product Pipeline
━━━━	LPG Pipeline
┅┅┅┅	Ongoing LPG Pipeline
━━━━	Gas Pipeline
🏭	Refinery (Capacity in MMTPA)

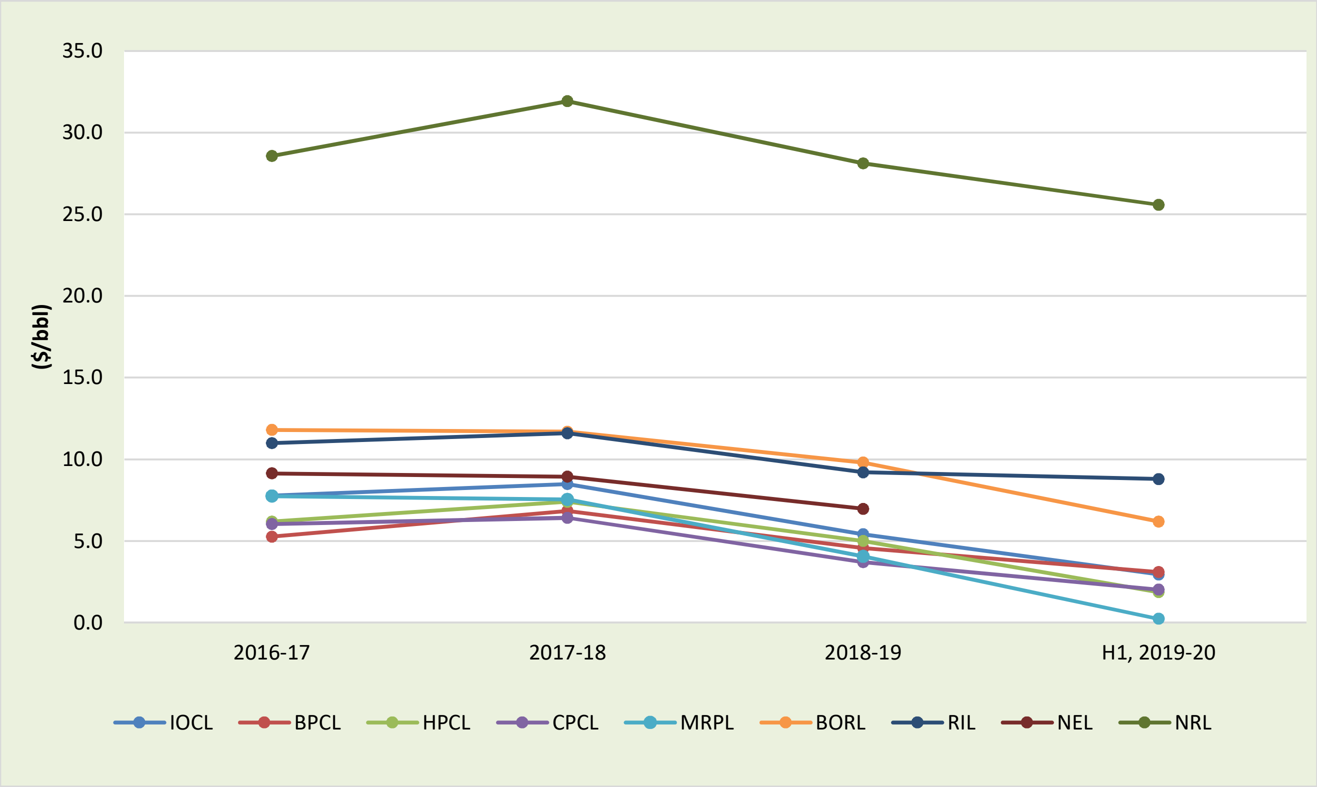
As of 1.10.2019

Note: Pipelines shown are indicative only.

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

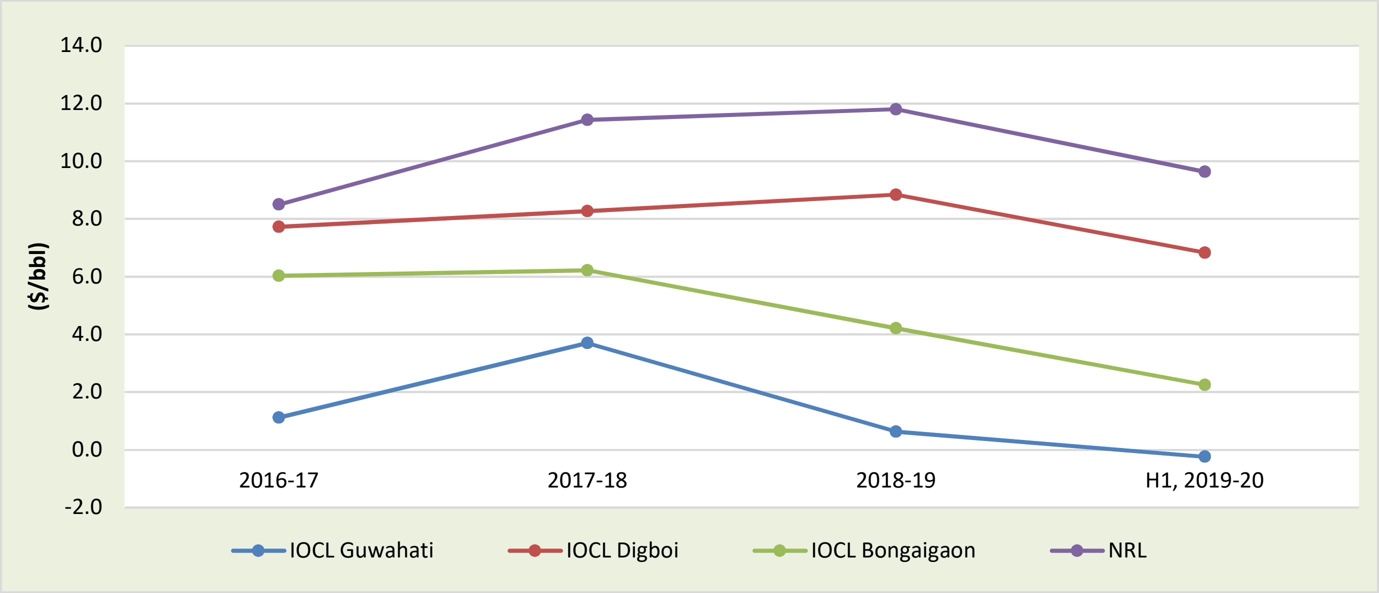
Company	Refinery	2016-17	2017-18	2018-19	H1, 2019-20
IOCL	Barauni	6.52	6.60	3.86	1.75
	Koyali	7.55	9.44	4.87	2.32
	Haldia	6.80	6.86	5.36	2.21
	Mathura	7.01	7.09	4.65	2.12
	Panipat	7.95	7.74	4.66	2.42
	Guwahati **	22.14	21.88	16.35	17.06
	Digboi **	24.49	24.86	22.74	20.55
	Bongaigaon **	20.15	20.62	16.94	16.77
	Paradip #	4.22	7.02	4.46	1.57
	Weighted average	**7.77**	**8.49**	**5.41**	**2.96**
BPCL	Kochi	5.16	6.44	4.27	2.68
	Mumbai	5.36	7.26	4.92	3.58
	Weighted average	**5.26**	**6.85**	**4.58**	**3.10**
HPCL	Mumbai	6.95	8.35	5.79	3.33
	Visakhapatnam	5.51	6.55	4.31	0.67
	Weighted average	**6.20**	**7.40**	**5.01**	**1.87**
CPCL	Chennai	6.05	6.42	3.70	2.03
MRPL	Mangalore	7.75	7.54	4.06	0.23
NRL	Numaligarh **	28.56	31.92	28.11	25.58
BORL	Bina	11.80	11.70	9.80	6.20
RIL	Jamnagar	11.00	11.60	9.20	8.80
NEL	Vadinar	9.14	8.95	6.97	*

*Not available; # Commissioned in February, 2016; HMEL data not available; ** GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit, refer table 11.


35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
($/bbl)
2016-17
2017-18
2018-19
H1, 2019-20
IOCL
BPCL
HPCL
CPCL
MRPL
BORL
RIL
NEL
NRL

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)

Company	Refinery	2016-17	2017-18	2018-19	H1, 2019-20
IOCL	Guwahati	1.12	3.70	0.63	-0.24
	Digboi	7.73	8.27	8.84	6.83
	Bongaigaon	6.03	6.22	4.21	2.25
NRL	Numaligarh	8.50	11.43	11.80	9.63



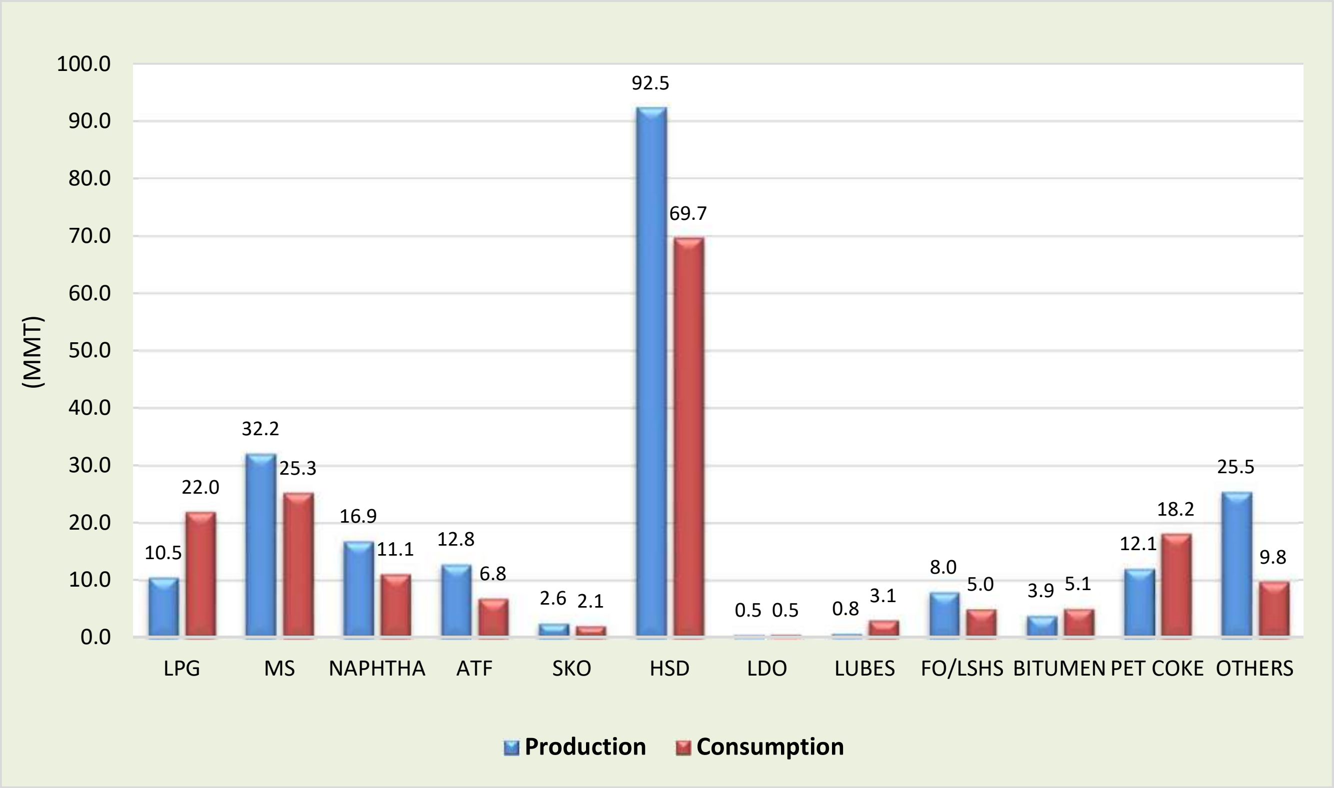
Part C: Consumption

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

Products	2018-19		January 2019		January 2020 (P)		Apr 2018-Jan 2019		Apr2019-Jan 2020 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	24.9	1.1	2.3	1.1	2.4	10.6	20.4	10.5	22.0
MS	38.0	28.3	3.3	2.4	3.2	2.5	31.7	23.5	32.2	25.3
NAPHTHA	19.6	14.1	1.6	1.1	2.0	1.3	16.6	11.7	16.9	11.1
ATF	15.5	8.3	1.4	0.7	1.3	0.7	12.9	6.9	12.8	6.8
SKO	4.1	3.5	0.4	0.3	0.3	0.2	3.4	2.9	2.6	2.1
HSD	110.6	83.5	9.3	7.1	9.4	6.9	92.1	69.3	92.5	69.7
LDO	0.7	0.6	0.06	0.06	0.06	0.06	0.6	0.5	0.5	0.5
LUBES	0.9	3.7	0.07	0.3	0.07	0.3	0.8	2.9	0.8	3.1
FO/LSHS	10.0	6.6	1.0	0.5	0.7	0.5	8.6	5.5	8.0	5.0
BITUMEN	5.6	6.7	0.6	0.7	0.5	0.6	4.4	5.2	3.9	5.1
PET COKE	13.7	21.3	1.0	2.0	1.4	1.9	11.5	17.6	12.1	18.2
OTHERS	31.0	11.7	2.6	1.1	2.8	1.0	26.0	9.8	25.5	9.8
ALL INDIA	**262.4**	**213.2**	**22.3**	**18.5**	**22.8**	**18.4**	**219.1**	**176.2**	**218.2**	**178.7**
Growth (%)	**3.2%**	**3.4%**	**-2.6%**	**7.5%**	**1.9%**	**-0.6%**	**3.4%**	**3.2%**	**-0.4%**	**1.4%**

Note: Prod - Production; Cons - Consumption

Petroleum Products: April 2019-January 2020 (MMT)



13. Kerosene allocation vs upliftment (Kilo Litres)

Product	2016-17		2017-18		2018-19		2019-20 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment*
PDS Kerosene	69,33,030	66,78,447	50,21,828	46,69,160	44,32,994	41,52,112	31,21,328	24,12,706

*Upliftment of PDS kerosene for duraton April 2019 to January 2020; whole allocation is for April/March'20

14. Ethanol blending programme

Particulars	Ethanol Supply Year *			
	2016-17	2017-18	2018-19 (P)	2019-20 (P) (Dec 2019-Jan 2020)
Ethanol received by PSU OMCs under EBP Program (in Cr. Litrs)	66.5	150.5	188.6	24.1
Average Percentage of Blending Sales (EBP%)	2.0%	4.2%	5.0%	3.8%

*** 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.

15. Industry marketing infrastructure (as on 01.02.2020) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**[$]	125	78	84	18	3	-	6	**314**
Aviation Fuel Stations **(Nos.)**[@]	119	58	43	31	-	-	1	**252**
Retail Outlets (total) **(Nos.),**[^]	28,790	15,814	16,194	1,400	5,649	178	7	**68,032**
out of which Rural ROs	8,386	2,586	3,774	127	1,955	26	-	**16,854**
SKO/LDO agencies **(Nos.)**	3,882	1,001	1,638	-	-	-	-	**6,521**

[$] (RIL= 5 terminals and 13 depots, Others=4 MRPL & 2 NRL); [@] (Others=ShellMRPL -1); [^] (Others=MRPL-7)

Part D: LPG

16. LPG consumption (Thousand Metric Tonne)

LPG category	2017-18	2018-19	January			April-January		
			2018-19	2019-20 (P)	Gr (%)	2018-19	2019-20 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	20,351.8	21,728.0	2,011.8	2,121.9	5.5	17,825.7	19,132.1	7.3
LPG-Packed Non-Domestic	2,085.8	2,364.4	227.9	268.3	17.7	1,925.2	2,235.7	16.1
LPG-Bulk	355.4	318.1	29.5	23.2	-21.5	259.4	229.9	-11.4
Auto LPG	184.4	180.3	15.3	15.1	-1.3	151.0	148.3	-1.8
Sub-Total (PSU Sales)	**22,977.4**	**24,590.8**	**2,284.6**	**2,428.5**	**6.3**	**20,161.4**	**21,746.0**	**7.9**
2. Direct Private Imports*	364.5	316.0	24.2	21.4	-11.8	273.8	204.7	-25.2
Total (1+2)	**23,341.8**	**24,906.8**	**2,308.8**	**2,449.9**	**6.1**	**20,435.1**	**21,950.7**	**7.4**

*December 2019-January 2020 import data are prorated on the basis of December 2018 to November 2019 actual data provided by DGCIS.

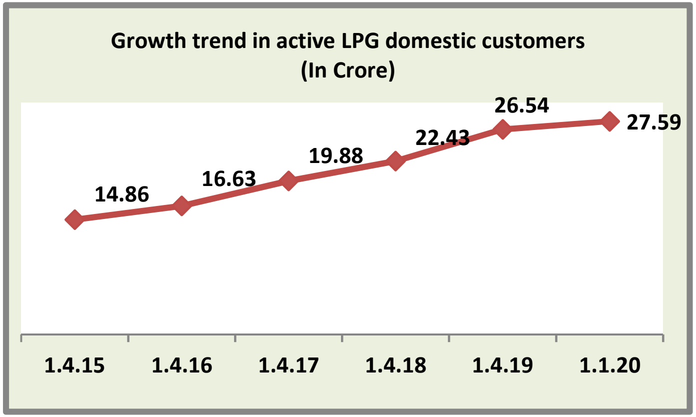
17. LPG marketing at a glance

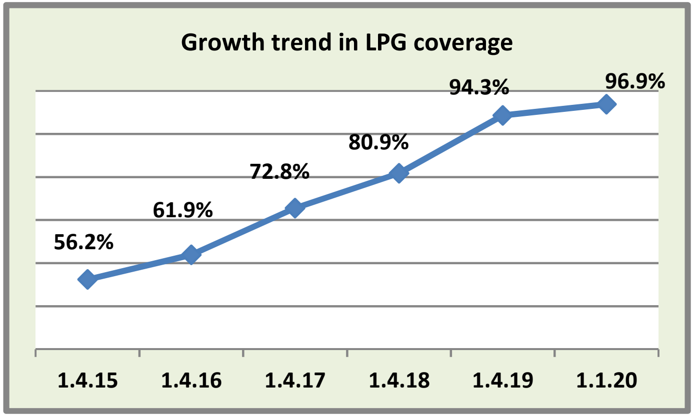
Particulars (As on 1st of April)	Unit	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1.1.2020 (P)
LPG Active Domestic Customers	(Lakh)								1486	1663	1988	2243	2654	2759
	Growth									11.9%	19.6%	12.8%	18.3%	9.4%
LPG Coverage (Estimated)	(Percent)								56.2	61.9	72.8	80.9	94.3	96.9
	Growth									10.1%	17.6%	11.1%	16.5%	7.8%
PMUY Beneficiaries	(Lakh)										200.3	356	719	802.9
	Growth											77.7%	101.9%	35.1%
LPG Distributors	(No.)	9365	9366	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24382
	Growth	0.0%	0.0%	3.4%	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	7.6%
Auto LPG Dispensing Stations	(No.)	327	447	536	604	652	667	678	681	676	675	672	661	658
	Growth	48.6%	36.7%	19.9%	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.8%
Bottling Plants	(No.)	181	182	182	183	184	185	187	187	188	189	190	192	195
	Growth	0.0%	0.6%	0.0%	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%

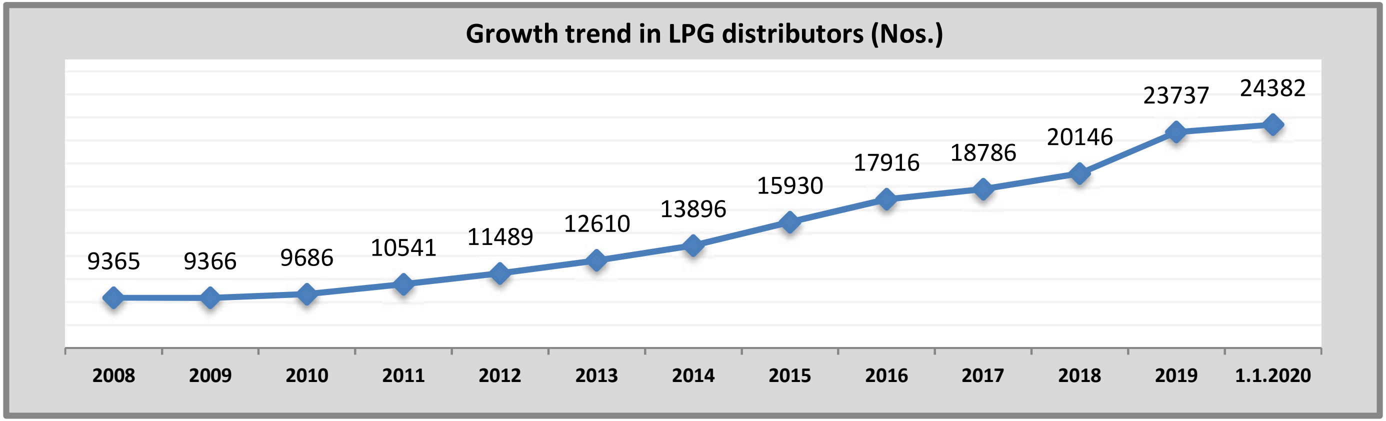
Source: PSU OMCs (IOCL,BPCL and HPCL)

1.All growth rates as on 1.1.2020 are w.r.t figures as on 1.1.2019.All growth rates as on 1 April of any year are w.r.t. figures as on 1 April of previous year.

2. LPG coverage has been estimated based on active domestic LPG connections of PSU OMCs divided by households estimated by extrapolating decadal growth of 2001-11 on households in 2011 as per Census 2011 figures.


Growth trend in active LPG domestic customers (In Crore)
14.86
16.63
19.88
22.43
26.54
27.59
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.1.20

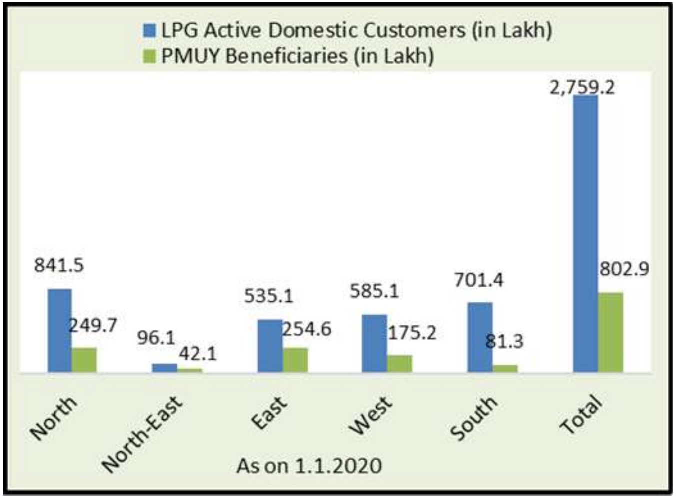

Growth trend in LPG coverage
56.2%
61.9%
72.8%
80.9%
94.3%
96.9%
1.4.15
1.4.16
1.4.17
1.4.18
1.4.19
1.1.20

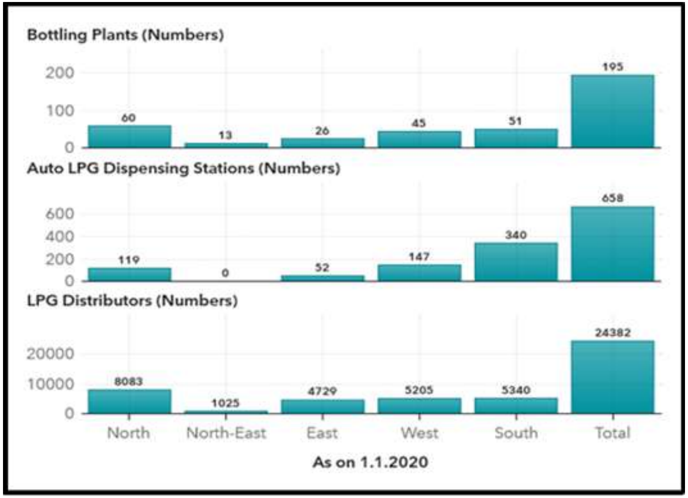

Growth trend in LPG distributors (Nos.)
9365
9366
9686
10541
11489
12610
13896
15930
17916
18786
20146
23737
24382
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
1.1.2020

18-Region-wise data on LPG marketing (As on 1.1.2020)

Particulars	North	North-East	East	West	South	Total
LPG Active Domestic Customers (in Lakh)	841.5	96.1	535.1	585.1	701.4	2759.2
LPG Coverage (Estimated)	110.7%	90.0%	83.5%	88.1%	103.8%	96.9%
PMUY Beneficiaries (in Lakh)	249.7	42.1	254.6	175.2	81.3	802.9
Non-domestic LPG customers (in Lakh)	6.2	0.7	3.1	8.0	13.6	31.7
LPG Distributors (Numbers)	8083	1025	4729	5205	5340	24382
Auto LPG Dispensing Stations (Numbers)	119	0	52	147	340	658
Bottling Plants* (Numbers)	60	13	26	45	51	195

*Includes Numaligarh BP, Duliajan BP and CPCL BP.





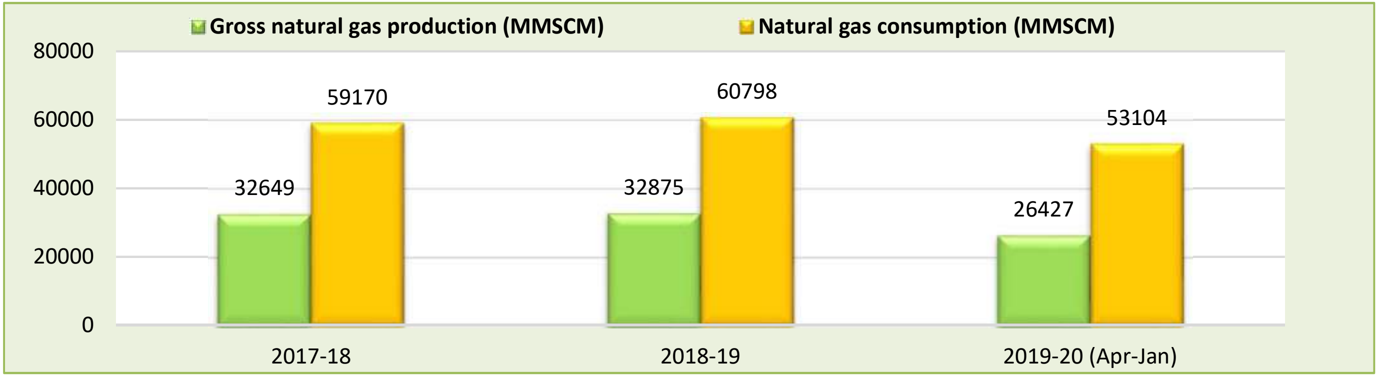
Part E: Natural Gas

19. Natural gas at a glance

(MMSCM)

Details	2017-18	2018-19	January			April-January		
			2018-19	2019-20 (Target)	2019-20 (P)	2018-19	2019-20 (Target)	2019-20 (P)
(a) Gross production	32,649	32,875	2,841	3,013	2,607	27,492	28,645	26,427
- ONGC	23,429	24,677	2,170	2,294	2,051	20,586	21,305	19,970
- Oil India Limited (OIL)	2,881	2,722	222	265	208	2,283	2,798	2,256
- Private / Joint Ventures (JVs)	6,338	5,477	449	455	347	4,623	4,542	4,202
(b) Net production (excluding flare gas and loss)	31,731	32,058	2,772		2,528	26,820		25,672
(c) LNG import	27,439	28,740	2,220		2,778	24,300		27,433
(d) Total consumption including internal consumption (b+c)	59,170	60,798	4,992		5,306	51,120		53,104
(e) Total consumption **(in BCM)**	59.2	60.8	5.0		5.3	51.1		53.1
(f) Import dependency based on consumption (%), {c/d*100}	46.4	47.3	44.5		52.4	47.5		51.7

Note: November-December 2019 private import (LNG) quantity is prorated on the basis of November 2018-October 2019 actual data provided by DGCIS. OIL's October 2019 production data has been considered for the month of November 2019.



20. Coal Bed Methane (CBM) gas development in India

Prognosticated CBM resources		92	TCF
Established CBM resources		9.9	TCF
Total available coal bearing areas		26,000	Sq. KM
Exploration initiated		16,613	Sq. KM
Blocks awarded		33	Nos.
Production of CBM gas	January 2019 (P)	55.6	MMSCM
Production of CBM gas	April-January 2019 (P)	540.7	MMSCM

21. Major natural gas pipeline network as on 01.02.2020

Nature of pipeline		GAIL	Reliance	GSPL	ARN^	IOCL	Total
Natural gas	Length (KM)	12,160	1,774	2,692	215	140	**16,981**
	Cap (MMSCMD)	246	84	43	5	10	**387**

^Excludes CGD pipeline network

22. Existing LNG terminals

Location	Promoters	Capacity as on 01.01.2020	Capacity utilisation in % April-December 2019 (P)
Dahej	Petronet LNG Ltd (PLL)	16.3 MMTPA	105.7
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	94.6
Dabhol	RGPPL (GAIL - NTPC JV)	5 MMTPA	17.0
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	15.7
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	7.0
Total Capacity		**36.3 MMTPA**	

* To increase to 5 MMTPA with breakwater

23. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2020

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd., Megha Engineering & Infrastructures Ltd.	Kakinada, Vijayawada, East Godavari District (excluding area already authorized), West Godavari District, Krishna District (excluding area already authorized)	59	25,186	100,461	177	11
Assam	Assam Gas Co. Ltd	Upper Assam	1	46	34,730	1,132	404
Bihar	GAIL (India) Ltd.	Patna District	4	3,624	736	5	0
Chandigarh	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh (UT) and Panchkula (part), SAS Nagar (part) & Solan (part) Districts	11	7,500	17,941	10	1
Daman and Diu	Indian Oil-Adani Gas Pvt. Ltd.	UT of Daman	4	1,000	1,474	23	13
Delhi	Indraprastha Gas Ltd .	NCT of Delhi	502	10,76,461	13,01,118	3,058	2,325
Gujarat & DNH	Sabarmati Gas Ltd, Gujarat Gas Ltd, Adani Gas Ltd, Vadodara Gas Ltd, Hindustan Petroleum Corporation Ltd, Charotar Gas Sahakari Mandal Ltd, IRM Energy Ltd.	Ahmedabad City and Daskroi Area , Porbandar District, Vadodara, Anand area including Kanjari & Vadtal Villages (in Kheda District), Bhavnagar, Jamnagar, Kutch West, Amreli District, Dahej Vagra Taluka, Dahod District, Anand District (excluding areas already authorized), Panchmahal District, Surat, Bharuch, Ankleshwar, Nadiad, Navsari (part) District, Rajkot, Surendranagar (part) District, Hazira, Valsad (part) District, Narmada (Rajpipla) District, Gandhinagar (excluding areas already authorized), Ahmedabad (excluding areas already authorized), Ahmedabad CNG Stations, Banaskantha District, Patan District, Gandhinagar, Mehsana, Sabarkantha, Kheda Districts (Except areas already authorized), Morbi District (except area already authorized) & Mahisagar District GA , UT of Dadra & Nagar Haveli	605	10,16,710	22,21,049	19,382	5,113

23. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2020

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Goa	Goa Natural Gas (P) Ltd.	North-Goa	1	0	3428	0	0
Haryana	Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd. , Indian Oil-Adani Gas Pvt. Ltd., HPOIL Gas Pvt Ltd.	Nuh & Palwal Districts, Faridabad, Sonipat (part) District, Gurgaon, Ambala and Kurukshetra Districts, Panipat District, Rewari District, Karnal District, Gurugram	89	1,62,801	133,598	312	613
Jharkhand	GAIL (India) Ltd.	Ranchi District , East Singhbhum District	3	1,112	775	0	0
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd., Indian Oil-Adani Gas Pvt. Ltd.	Bengaluru Rural and Urban Districts, Dharwad District, Tumkur District, Belgaum District	19	1,895	37,199	210	120
Kerala	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	7	1100	1,608	7	4
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd, Naveriya Gas Pvt Ltd, Think Gas	Bhopal & Rajgarh Districts , Indore (including Ujjain City) (part) District, Gwalior (part) District, Dewas (part)	52	37,027	78,051	148	226
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited, Mahesh Gas Ltd, Unison Enviro Private Limited, HPOIL Gas Pvt Ltd.	Palghar District and Thane Rural , Kolhapur District, Raigarh District (excluding areas already authorized), Mumbai & Greater Mumbai, Thane Urban and adjoining municipalities, Pune City including Pimpri-Chiechwad & adjoining contiguous areas Hinjewadi, Chakan, Talegaon, Pune District (excluding areas already authorized), Ratnagiri District	356	10,06,869	16,74,753	4,301	295

23. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2020

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Odisha	GAIL (India) Ltd.	Khordha District, Cuttack District, Sundargarh & Jharsuguda Districts, Ganjam, Nayagarh & Puri Districts	12	4,044	502	0	0
Punjab	IRM Energy Pvt. Ltd., GSPL, Bharat Gas Resources Limited, Think Gas	Amritsar District, Fatehgarh Sahib District, Ludhiana District (Except area already authorized), Barnala & Moga Districts, Jalandhar District (Except areas already authorized), Kapurthala & SBS Nagar Districts, SAS Nagar District (Except areas already authorized), Patiala & Sangrur Districts, Rupnagar District, Bhatinda District	26	6,735	2081	12	20
Rajasthan	Rajasthan State Gas Limited, Torrent Gas Private Limited	Kota (part) District, Neemrana, Kukas, Kota (except area already authorized), Baran & Chittontarh (Only Rawatbhata Taluka) Districts	10	12,580	8,464	17	16
Telangana	Bhagyanagar Gas Ltd., Torrent Gas Private Limited	Hyderabad , Medak, Siddipet & Sangareddy Districts	59	26,215	48,875	13	28
Tripura	Tripura Natural Gas Co. Ltd	Agartala	13	12,380	43,741	430	51

23. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2020

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Uttar Pradesh	GAIL Gas Ltd, Sanwariya Gas Ltd, Green Gas Ltd, Central U.P. Gas Ltd, Siti Energy Ltd, Adani Gas Ltd, Indian Oil-Adani Gas Pvt. Ltd.,Torrent Gas Pvt Ltd., GAIL (India) Ltd., IGL	Khurja, Jhansi (part) District, Bareilly (part) District, Kanpur (part) District, Varanasi District, Meerut (part) District, Firozabad (Taj Trapezium Zone), Agra, Lucknow, Bulandshahr (part) District, Allahabad (part) District, Meerut District (Except areas already authorized), Muzaffarnagar & Shamli Districts, Mathura (part) District, Moradabad (part) District, Auraiya, Kanpur Dehat & Etawah Districts , Gorakhpur, Sant Kabir Nagar & Kushinagar Districts, Moradabad (Except areas already authorized) District	161	1,62,304	2,35,795	482	760
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd. , HNGPL	Udham Singh Nagar, Haridwar district GA	3	150	8,542	21	23
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	4,040	0	0	0
Total			**2,004**	**3,569,779**	**5,954,921**	**29,740**	**10,023**

24. 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

Part F: Taxes & Duties on Petroleum Products

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2017-18	2018-19	January 2019
Crude oil (Indian Basket)	56.43	69.88	64.31
Petrol	67.83	75.58	69.11
Diesel	68.19	82.51	73.35
Kerosene	67.65	82.24	72.70
LPG ($/MT)	485.92	526.00	580.00
FO ($/MT)	327.50	420.93	301.61
Naphtha ($/MT)	494.73	573.72	514.70
Exchange (Rs./$)	64.45	69.89	71.31

Customs, excise duty & GST rates

Product	Basic customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.98/Ltr	**
Diesel	2.50%	Rs 15.83/Ltr	**
PDS SKO	Nil	Not Applicable	5.00%
Non-PDS SKO	5.00%		18.00%
Domestic LPG	Nil***		5.00%
Non Domestic LPG	5.00%		18.00%
Furnace Oil (Non-Fert)	5.00%		18.00%
Naphtha (Non-Fert)	4.00%		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 @ 3% on petrol and diesel and 10% on other products is levied on aggregate duties of Customs excluding CVD in liue 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.

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

Particulars	Petrol*	Diesel*
Price charged to dealers (excluding Excise Duty and VAT)	33.11	36.98
Excise Duty	19.98	15.83
Dealers' Commission (Average)	3.56	2.50
VAT (incl VAT on dealers' commission)	15.29	9.56
Retail Selling Price	**71.94**	**64.87**

Particulars	PDS SKO*	Subsidised Domestic LPG*
Price before taxes and dealers'/distributors' commission	31.80	755.77
Dealers'/distributors' commission	2.60	61.84
GST (incl GST on dealers'/distributors' commission)	1.72	40.89
Retail Selling Price	**36.12**	**858.50**

*Petrol and diesel at Delhi as per IOCL are as on 12th February 2020. PDS SKO at Mumbai as on 1st February 2020 and Subsidised Domestic LPG at Delhi as on 12th February 2020

Impact of changes in product price by $1 per bbl for PDS SKO and $10/MT for Domestic LPG & change in exchange rate by ₹1 per $

Product	Impact of change in product price by $1per bbl / $10per MT		Impact of change in exchange rate by ₹ 1/$	
	Per unit impact (₹/lit./cyl.)	Annualised financial impact (₹crore)	Per unit impact (₹/lit./cyl.)	Annualised financial impact (₹crore)
PDS SKO	0.45	140	0.49	150
Domestic LPG	10.22	1430	8.37	1,170
Total	-	**1,570**	-	**1,320**

Note: The above calculations are based on RTP for February 2020.

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

Under-recoveries/subsidy & burden sharing

PDS Kerosene

Product	2017-18	2018-19	9M, 2019-20 (P)
	Rs./Crore		
Under recovery	4,672	5,950	1,651
Subsidy under DBTK #	113	117	25
Total	**4,785**	**6,067**	**1,676**

#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanisam for direct transfer of subsidy paid to States/UTs.

Domestic LPG under DBTL (Direct benefit transfer for LPG)

Particulars	2017-18	2018-19	9M, 2019-20 (P)
	Rs./Crore		
DBTL subsidy	20,880	31,447	15,348
PME &IEC^	25	92	51
Total	**20,905**	**31,539**	**15,399**

PMUY (Pradhan Mantri Ujjwala Yojana)

Particulars	2017-18	2018-19	9M, 2019-20 (P)
	Rs./Crore		
PMUY claims	2,496	5,489	1,232
PME & IEC^	63	34	43
Total	**2,559**	**5,523**	**1,275**

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

Sales & profit of petroleum sector (Rs. Crores)

Particulars	2018-19		H1, 2019-20	
	Turnover	PAT	Turnover	PAT
Upstream/midstream Companies (PSU)	1,97,468	35,332	93,501	15,771
Downstream Companies (PSU)	12,33,019	30,055	5,81,353	8,807
Standalone Refineries (PSU)	1,40,614	2,087	59,464	-715
Private-RIL	4,00,986	35,163	1,90,830	18,738

Borrowings of OMCs (Rs. Crores), As on

Company	Mar\`18	Mar\`19	H1, Mar\`20
IOCL	58,030	86,359	80,382
BPCL	23,351	29,099	31,756
HPCL	20,991	27,240	29,759

Petroleum sector contribution to Central/State Govt.

Particulars	2016-17	2017-18	2018-19
Central Government	3,35,175	3,36,162	3,48,041
% of total revenue receipts	24%	23%	20%
State Governments	1,89,770	2,06,864	2,27,591
% of total revenue receipts	9%	9%	8%
Total (Rs. Crores)	**5,24,945**	**5,43,026**	**5,75,632**

Subsidy as a percentage of GDP (at current prices)

Particulars	2015-16	2016-17	2017-18
Petroleum subsidy	0.25	0.18	0.17

Note: GDP figure for 2015-16 and 2016-17 are Revised Estimates and 2017-18 are Provisional Estimates

Part G: Miscellaneous

26. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2016-17 (P)	2017-18 (P)	2018-19 (P)	2019-20 (P)	
				Target	April-January
ONGC Ltd	28,010	72,383	28,738	32,921	21,303
ONGC Videsh Ltd (OVL)	18,360	6,240	6,013	5,161	4,524
Oil India Ltd (OIL)	10,514	8,395	3,702	4,105	3,046
GAIL (India) Ltd	2,180	3,613	5,958	5,339	3,174
Indian Oil Corp. Ltd. (IOCL)	21,918	20,345	26,548	25,084	20,766
Hindustan Petroleum Corp. Ltd (HPCL)	5,861	7,134	11,689	9,500	10,703
Bharat Petroleum Corp. Ltd (BPCL)	16,810	8,161	10,084	7,900	7,905
Mangalore Refinery & Petrochem Ltd (MRPL)	614	1,281	1,072	818	1,073
Chennai Petroleum Corp. Ltd (CPCL)	1,293	963	1,208	1,105	891
Numaligarh Refinery Ltd (NRL)	500	387	459	455	376
Balmer Lawrie Co. Ltd (BL)	73	78	125	40	29
Engineers India Ltd (EIL) #	-	-	87	1212	79
Total	**1,06,133**	**1,28,981**	**95,684**	**93,639**	**73,869**

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional;

Included from 2018-19.

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