

Ready Reckoner

Snapshot of India's Oil & Gas data

November, 2019



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

As on 20.12.2019

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Highlights for the month

- Indigenous crude oil and condensate production during November 2019 was lower by 5.8% than that of November 2018 as compared to a de-growth of 5.1% during October 2019. OIL, ONGC and PSC registered lower production of 3.2%, 1.9% and 15.1% respectively during November 2019 as compared to November 2018. On cumulative basis indigenous crude oil and condensate production of the country was lower by 5.8% during April-November 2019 as compared to the corresponding period of the previous year.
- Crude oil processed during November 2019 was 21.9 MMT, which was 3.8% higher than November 2018 as compared to a growth of 0.2% during October 2019. On cumulative basis total crude oil processed was lower by 1.2% during April-November 2019 as compared to the corresponding period of the previous year. Indian refineries processed 76.0% high sulphur crude during November 2019 as compared to 75.1% during November 2018.
- Production of petroleum products saw a growth of 3.1% during November 2019 and de-growth of 1.1% during April-November 2019 as compared to the corresponding period of the previous year
- Crude oil imports increased by 12.7% during November 2019 and decreased by 0.7% during April-November 2019 as compared to the corresponding period of the previous year.
- POL products imports increased by 45.4% and 36.3% during November 2019 and April-November 2019 respectively as compared to the corresponding period of the previous year. Increase in POL products imports during April-November 2019 was due to increase in imports of all products except naphtha and aviation turbine fuel (ATF).
- Exports of POL products increased by 16.4% and 4.5% during November 2019 and April-November 2019 as compared to the corresponding period of the previous year. Increase in POL products exports during April-November 2019 was mainly due to increase in exports of naphtha and high speed diesel (HSD).
- Petroleum product consumption registered a growth of 10.5% during November 2019 and a cumulative growth of 2.2% during April-November 2019. Except for SKO and FO/LSHS all other products registered growth during November 2019.

<ul style="list-style-type: none"> • Total LPG consumption recorded a growth of 23.5% during November 2019 and a cumulative growth of 7.5% during April-November 2019. During November 2019, out of the five regions, Northern region had the highest share in total LPG consumption of 32.4% followed by Southern region at 27.6%, Western region at 21.7%, Eastern region at 15.6% and North Eastern region at 2.6%.
<ul style="list-style-type: none"> • Total consumption of petrol registered a growth of 9.2% during November 2019 and a cumulative growth of 9.1% during April-November 2019.
<ul style="list-style-type: none"> • Ethanol blending percentage as on 30th November 2019 during supply year 2018-19 has increased to 5 % as compared to 4.2% during supply year 2017-18.
<ul style="list-style-type: none"> • SKO consumption registered a drop of 32.2% during November 2019 and cumulative drop of 25.8% during April-November 2019. This was mainly because of reduced Q1, Q2 & Q3 2019-20 PDS SKO allocations to the states and voluntary surrender of some of the allocation by the states.
<ul style="list-style-type: none"> • Gross production of natural gas for the month of November 2019 was 2574 MMSCM which was lower by 5.8% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 21221 MMSCM for the current financial year till November 2019 was lower by 2.6% compared with the corresponding period of the previous
<ul style="list-style-type: none"> • LNG import for the month of November 2019 was 2641 MMSCM which was 19% higher than the corresponding month of the previous year. The cumulative import of 21743 MMSCM for the current year till November 2019 was higher by 9.9% compared with the corresponding period of the previous year.
<ul style="list-style-type: none"> • The price of Brent Crude averaged \$63.02/bbl during November 2019 as against \$59.72/bbl during October 2019 and \$64.74/bbl during November 2018. The Indian basket crude price averaged \$62.54/bbl during November 2019 as against \$59.70/bbl during October 2019 and \$65.40 /bbl during November 2018.

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 1 st May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	7.4	8.0 3 rd RE	8.2 2 nd RE	7.2 1 st RE	6.8 PE	4.8 E (H1)
3	Agricultural Production (Food grains)	MMT	252.0	251.5	275.1	285.0 FE	285.0 4 th AE	140.6 1 st AE (Kharif [®])
		Growth %	-4.9	-0.2	9.4	3.6	0.0	-0.7
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	November		April-November	
					2018-19	2019-20	2018-19	2019-20
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.4	3.6	8.4*	-3.8* QE	5.7 [#]	0.5 [#]
6	Imports	\$ Billion	465.6	514.1	43.7	38.1	350.0	318.8
7	Exports	\$ Billion	303.5	330.1	26.1	26.0	216.2	211.9
8	Trade Balance	\$ Billion	-162.1	-184.0	-17.6	-12.1	-133.7	-106.9
9	Foreign Exchange Reserves [@]	\$ Billion	424.4	411.9	393.7	451.1	-	-

[®]Kharif 2018-19- 141.59 (1st AE); IIP is for the month of *October, [#]April-October; [@]2017-18-as on March 30, 2018, 2018-19-as on March 29, 2019, November 2018- as on November 30, 2018 and November 2019-as on November 29, 2019; 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	November		April-November	
					2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Crude oil production in India	MMT	35.7	34.2	2.8	2.6	23.1	21.7
2	Consumption of petroleum products	MMT	206.2	213.2	17.0	18.8	138.9	142.0
3	Production of petroleum products	MMT	254.3	262.4	21.8	22.5	175.3	173.4
4	Gross natural gas production	MMSCM	32,649	32,875	2,732	2,574	21,784	21,221
5	Natural gas consumption	MMSCM	59,170	60,798	4,886	5,148	41,034	42,359
6	Imports & exports:							
Crude oil imports		MMT	220.4	226.5	17.0	19.2	151.0	149.9
		\$ Billion	87.8	111.9	8.3	8.6	78.6	69.5
Petroleum products (POL) imports		MMT	35.5	33.3	2.3	3.3	20.3	27.6
		\$ Billion	13.6	16.3	1.2	1.3	10.9	11.3
Gross petroleum imports (Crude + POL)		MMT	255.9	259.8	19.3	22.5	171.2	177.5
		\$ Billion	101.4	128.3	9.5	9.9	89.5	80.9
Petroleum products exports		MMT	66.8	61.1	5.2	6.1	41.7	43.6
		\$ Billion	34.9	38.2	3.1	3.5	27.5	24.9
LNG imports		MMSCM	27,439	28,740	2,219	2,641	19,781	21,743
		\$ Billion	8.1	10.3	0.9	0.8	7.1	6.3
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.8	24.9	21.8	26.1	25.6	25.4
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.5	11.6	11.8	13.3	12.7	11.7
9	Import dependency of crude (on consumption basis)	%	82.9	83.8	83.3	86.2	83.3	84.7

October - November 2019 private import (POL) quantity is prorated on the basis of October 2018 - September 2019 actual 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.

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2017-18	2018-19	November			April-November		
			2018-19	2019-20 (Target)*	2019-20 (P)	2018-19	2019-20 (Target)*	2019-20 (P)
ONGC	20.8	19.6	1.6	1.8	1.6	13.2	14.2	12.7
Oil India Limited (OIL)	3.4	3.3	0.3	0.3	0.3	2.2	2.3	2.2
Private / Joint Ventures (JVs)	9.9	9.6	0.8	0.8	0.7	6.5	6.5	5.8
Total Crude Oil	34.0	32.5	2.6	2.9	2.5	21.9	23.0	20.6
ONGC condensate	1.5	1.5	0.1		0.1	1.0		0.9
PSC condensate	0.2	0.2	0.02		0.02	0.2		0.2
Total condensate	1.6	1.7	0.1		0.1	1.1		1.1
Total (Crude + Condensate) (MMT)	35.7	34.2	2.8	2.9	2.6	23.1	23.0	21.7
Total (Crude + Condensate) (Million Bbl)	261.6	250.7	20.4	21.0	19.2	169.1	168.3	159.3

*Target is inclusive of condensate.

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

Details	2017-18	2018-19	November		April-November	
			2018-19	2019-20 (P)	2018-19	2019-20 (P)
Total domestic production (MMTOE)	68.3	67.1	5.5	5.2	44.9	42.9
Overseas production (MMTOE)	22.7	24.7	2.1	2.0	16.2	16.5
Overseas production as percentage of domestic production	33.2%	36.8%	37.6%	38.8%	36.0%	38.3%

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

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

Details		2017-18	2018-19	November		April-November	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	High Sulphur crude	188.4	194.2	15.9	16.7	130.2	126.3
2	Low Sulphur crude	63.6	63.0	5.3	5.3	41.4	43.2
Total crude processed		251.9	257.2	21.1	21.9	171.6	169.6
Percentage share of HS crude in total crude oil processing		74.8%	75.5%	75.1%	76.0%	75.9%	74.5%

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2018-19	226.5	111,915	7,83,183
2019-20 (Estimated)	233.0	111,348	7,84,418

Note: 2019-20 imports are estimated based on April 2019- September 2019 at actuals and for October 2019- 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 October 2019 - March 2020 :

If crude prices changes by one \$/bbl - Crude oil import bill changes by Rs. 6,328 crores

If exchange rate of Rs./\$ changes by Rs. 1/\$ - Crude oil import bill changes by Rs. 5,883 crores

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

Particulars		2017-18	2018-19	November		April-November	
				2018-19	2019-20 (P)	2018-19	2019-20 (P)
1	Indigenous crude oil processing	32.8	31.7	2.6	2.3	21.4	19.9
2	Products from indigenous crude (93.3% of crude oil processed)	30.6	29.6	2.5	2.2	20.0	18.5
3	Products from fractionators (Including LPG and Gas)	4.6	4.9	0.4	0.4	3.3	3.2
4	Total production from indigenous crude & condensate (2 + 3)	35.2	34.5	2.8	2.6	23.2	21.7
5	Total domestic consumption	206.2	213.2	17.0	18.8	138.9	142.0
% Self-sufficiency (4 / 5)		17.1%	16.2%	16.7%	13.8%	16.7%	15.3%

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

Company	Refinery	Installed capacity (1.12.2019) MMTPA	Crude oil processing (MMT)							
			2017-18	2018-19	November			April-November		
					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	4.3	4.4	4.3
	Koyali (1965)	13.7	13.8	13.5	1.2	1.3	1.3	9.1	8.3	8.1
	Haldia (1975)	7.5	7.7	8.0	0.6	0.4	0.4	5.3	4.7	4.6
	Mathura (1982)	8.0	9.2	9.7	0.8	0.0	0.8	6.6	5.9	6.9
	Panipat (1998)	15.0	15.7	15.3	1.3	1.4	1.3	10.9	10.1	9.7
	Guwahati (1962)	1.0	1.0	0.9	0.08	0.09	0.09	0.7	0.7	0.7
	Digboi (1901)	0.65	0.7	0.7	0.06	0.06	0.06	0.5	0.4	0.4
	Bongaigaon(1979)	2.35	2.4	2.5	0.2	0.1	0.2	1.6	1.4	1.6
	Paradip (2016)	15.0	12.7	14.6	1.3	1.2	1.4	9.2	10.4	10.5
	IOCL-TOTAL	69.2	69.0	71.8	6.2	5.0	6.1	48.1	46.3	47.0
CPCL	Manali (1969)	10.5	10.3	10.3	0.6	0.9	0.8	6.6	6.7	6.7
	CBR (1993)	1.0	0.5	0.4	0.05	0.0	0.0	0.3	0.0	0.0
		CPCL-TOTAL	11.5	10.8	10.7	0.6	0.9	0.8	6.8	6.7
BPCL	Mumbai (1955)	12.0	14.1	14.8	1.2	1.3	1.3	9.7	9.6	9.7
	Kochi (1966)	15.5	14.1	16.1	1.4	1.0	1.4	10.8	10.7	10.9
BORL	Bina (2011)	7.8	6.7	5.7	0.5	0.6	0.7	3.1	5.2	5.1
NRL	Numaligarh (1999)	3.0	2.8	2.9	0.3	0.1	0.1	1.9	1.9	1.8
	BPCL-TOTAL	38.3	37.7	39.4	3.3	3.0	3.5	25.6	27.4	27.4

Company	Refinery	Installed capacity (1.12.2019) (MMTPA)	Crude oil processing (MMT)							
			2017-18	2018-19	November			April-November		
					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	0.004	0.004	0.008	0.038	0.030	0.059
MRPL	Mangalore (1996)	15.0	16.1	16.2	1.4	1.4	1.3	10.6	9.6	8.8
	ONGC-TOTAL	15.1	16.2	16.3	1.4	1.4	1.4	10.6	9.7	8.9
HPCL	Mumbai (1954)	7.5	8.6	8.7	0.8	0.3	0.7	5.8	4.7	5.4
	Visakh (1957)	8.3	9.6	9.8	0.8	0.8	0.8	6.5	5.9	6.0
HMEL	Bathinda (2012)	11.3	8.8	12.5	1.0	0.9	1.1	8.3	7.3	8.0
	HPCL- TOTAL	27.1	27.1	30.9	2.6	2.0	2.6	20.7	18.0	19.4
RIL	Jamnagar (DTA) (1999)	33.0	33.2	31.8	2.7	2.7	2.8	21.9	21.9	21.2
	Jamnagar (SEZ) (2008)	35.2	37.3	37.4	3.2	3.2	3.1	24.6	24.6	25.1
NEL [#]	Vadinar (2006)	20.0	20.7	18.9	1.0	1.0	1.7	13.3	13.3	13.8
All India		249.4	251.9	257.2	21.1	19.2	21.9	171.6	168.0	169.6

#Nayara Energy Limited (formerly Essar Oil Limited). 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 01.12.2019)

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	3,371	2,395	17,765
	Cap (MMTPA)	-	1.7	-	-	46.0	19.5	33.7	9.4	110.3

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

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; ** GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit, refer table 11; # Commissioned in February, 2016; @Nayara Energy Limited (formerly Essar Oil Limited)

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

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

Products	2018-19		November 2018		November 2019 (P)		April-November 2018		April-November 2019 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	24.9	1.0	1.8	1.1	2.3	8.4	16.0	8.4	17.2
MS	38.0	28.3	3.1	2.3	3.2	2.5	25.4	18.7	25.8	20.4
NAPHTHA	19.6	14.1	1.7	1.2	1.9	1.3	13.3	9.3	13.0	8.7
ATF	15.5	8.3	1.2	0.7	1.3	0.7	10.2	5.5	10.2	5.4
SKO	4.1	3.5	0.3	0.3	0.2	0.2	2.7	2.4	2.1	1.7
HSD	110.6	83.5	9.4	6.9	9.0	7.6	73.9	54.9	73.4	55.4
LDO	0.7	0.6	0.10	0.0	0.07	0.1	0.5	0.4	0.5	0.4
LUBES	0.9	3.7	0.06	0.3	0.06	0.3	0.6	2.3	0.6	2.5
FO/LSHS	10.0	6.6	0.8	0.5	0.8	0.5	6.7	4.3	6.6	4.0
BITUMEN	5.6	6.7	0.4	0.5	0.4	0.6	3.3	3.9	3.0	3.9
PET COKE	13.7	21.3	1.1	1.4	1.3	1.8	9.5	13.6	9.4	14.5
OTHERS	31.0	11.7	2.6	1.0	3.0	1.0	20.7	7.6	20.4	7.9
ALL INDIA	262.4	213.2	21.8	17.0	22.5	18.8	175.3	138.9	173.4	142.0
Growth (%)	3.2%	3.4%	2.4%	-3.4%	3.1%	10.5%	5.4%	2.4%	-1.1%	2.2%

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)								
LPG category	2017-18	2018-19	November			April-November		
			2018-19	2019-20 (P)	Gr (%)	2018-19	2019-20 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	20,351.8	21,728.0	1,613.2	1,976.6	22.5	13,926.2	14,965.9	7.5
LPG-Packed Non-Domestic	2,085.8	2,364.4	167.2	236.3	41.3	1,482.4	1,711.1	15.4
LPG-Bulk	355.4	318.1	19.9	21.0	5.5	210.4	184.6	-12.3
Auto LPG	184.4	180.3	13.9	15.2	9.5	120.9	117.7	-2.7
Sub-Total (PSU Sales)	22,977.4	24,590.8	1,814.2	2,249.1	24.0	15,740.0	16,979.3	7.9
2. Direct Private Imports*	364.5	316.0	26.4	23.7	-10.1	221.4	184.2	-16.8
Total (1+2)	23,341.8	24,906.8	1,840.6	2,272.8	23.5	15,961.4	17,163.5	7.5

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

14. Kerosene allocation vs upliftment (Kilo Litres)								
Product	2016-17		2017-18		2018-19		H1, 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	18,02,848	16,40,431

15. Ethanol blending programme				
Particulars	Ethanol Supply Year *			
	2015-16	2016-17	2017-18	2018-19 (P) (Dec 2018-November 2019)
Ethanol received by PSU OMCs under EBP Program (in Cr. Litres)	111.4	66.5	150.5	188.6
Average Percentage of Blending Sales (EBP%)	3.5%	2.0%	4.2%	5.0%

* **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.

16. Industry marketing infrastructure (as on 01.12.2019) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL ^{##}	SHELL	Others	Total
POL Terminal/ Depots (Nos.) [§]	125	78	83	18	3	-	6	313
Aviation Fuel Stations (Nos.) [@]	118	58	43	31	-	-	1	251
Retail Outlets (total) (Nos.), [^]	28,420	15,421	15,875	1,400	5,525	169	7	66,817
out of which Rural ROs	8,208	2,431	3,645	127	1,948	26	-	16,385
SKO/LDO agencies (Nos.)	3,886	1,001	1,638	-	-	-	-	6,525
LPG Distributors (total) (Nos.) (PSUs only)	12,233	6,042	6,013	-	-	-	-	24,288
LPG Bottling plants (Nos.) (PSUs only) [#]	90	51	50	-	-	-	3	194
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	9,726	4,242	4,377	-	-	-	173	18,518
LPG active domestic consumers* (Nos. crore) (PSUs only)	13.0	7.0	7.6	-	-	-	-	27.6

[§](RIL= 5 terminals and 13 depots, Others=4 MRPL & 2 NRL); [@](Others=ShellMRPL -1); [^](Others=MRPL-7); [#](Others=NRL-1, OIL-1, CPCL-1); [&](Others=NRL-30, OIL-23, CPCL-120); ^{##}Nayara Energy Limited (formerly Essar Oil Limited).

17. Natural gas at a glance

Details	2017-18	2018-19	November			April-November		
			2018-19	2019-20	2019-20	2018-19	2019-20	2019-20
				(Target)	(P)		(Target)	(P)
(a) Gross production	32,649	32,875	2,732	2,744	2,574	21,784	22,661	21,221
- ONGC	23,429	24,677	2,091	2,030	1,894	16,219	16,751	15,920
- Oil India Limited (OIL)	2,881	2,722	227	274	239	1,828	2,260	1,863
- Private / Joint Ventures (JVs)	6,338	5,477	413	439	441	3,736	3,650	3,438
(b) Net production (excluding flare gas and loss)	31,731	32,058	2,667		2,507	21,253		20,615
(c) LNG import	27,439	28,740	2,219		2,641	19,781		21,743
(d) Total consumption including internal consumption (b+c)	59,170	60,798	4,886		5,148	41,034		42,359
(e) Total consumption (in BCM)	59.2	60.8	4.9		5.1	41.0		42.4
(f) Import dependency based on consumption (%), {c/d*100}	46.4	47.3	45.4		51.3	48.2		51.3

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

18. 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	November 2019 (P)	52.2	MMSCM
Production of CBM gas	April-November 2019 (P)	432.1	MMSCM

19. Major natural gas pipeline network as on 01.12.2019

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

20. Existing LNG terminals

Location	Promoters	Capacity as on 01.11.2019	Capacity utilisation in % April-October 2019 (P)
Dahej	Petronet LNG Ltd (PLL)	16.3 MMTPA	107.3
Hazira	Shell Energy India Pvt. Ltd.	5 MMTPA	100.0
Dabhol	RGPPL (GAIL - NTPC JV)	5 MMTPA	9.1
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	15.1
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	6.1
Total Capacity		36.3 MMTPA	

* To increase to 5 MMTPA with breakwater

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.12.2019

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, Vijaywada, East/West Godavari, Krishna district GA (excluding areas already authorized)	54	25,173	87,971	165	7
Assam	Assam Gas Co. Ltd	Upper Assam GA	1	36	34,486	1,122	404
Bihar	GAIL (India) Ltd.	Patna	2	2,501	609	2	0
Chandigarh	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh	11	7,500	17,113	8	1
Daman and Diu	Indian Oil-Adani Gas Pvt. Ltd.	Daman	3	1,000	786	21	14
Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	493	10,76,461	12,47,091	2,925	2,230
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.	Gandhinagar, Mehsana & Sabarkanta GA, Patan district GA, Surat-Bharuch-Ankleswar GA, Nadiad GA, Navsari GA, Rajkot GA, Surendranagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, Amreli District GA, Dahej Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (excluding area authorised) district GA, Ahmedabad city and Daskroi area (excluding area already authorised) GA, Vadodara district, Vadodara Rural, Ahmedabad district GA, Anand area including Kanjari and Vadtal villages GA and Palanpur, Dadra and Nagar Haveli-Silvassa	581	9,89,777	21,74,397	19,158	5,055

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.12.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Haryana	Haryana City Gas Distribution Ltd., Adani Gas Ltd., GAIL Gas Ltd., Indraprastha Gas Ltd., Indian Oil-Adani Gas Pvt. Ltd.	Sonapat, Faridabad, Gurgaon, Rewari, Panipat, Nuh & Palwal, Karnal	86	1,62,360	124,416	299	585
Jharkhand	GAIL (India) Ltd.	Ranchi	2	613	466	0	0
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd.	Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad	21	1,495	32,637	195	108
Kerala	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	7	1100	1,245	10	4
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaiapur, Gwalior GA, Indore GA including Ujjain city	47	36,760	72,250	140	220
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited, Mahesh Gas Ltd, Unison Enviro Private Limited	Mumbai, Greater Mumbai, Thane Urban, Mira Bhayender, Navi Mumbai, Ambernath, Bhiwandi, Kalyan, Dombivli, Badlapur, Ulhasnagar, Panvel, Kharghar & Taloja, Pune City including Pimpri-Chinchwad along with adjoining contiguous areas of Hinjewadi, Chakan & Talegaon GA, Raigarh District GA excl. areas already authorized, Palghar district and Thane Rural GA, Pune (excluding area already authorised), Ratnagiri	343	9,88,172	16,17,823	4,257	286

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.12.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Odisha	GAIL (India) Ltd.	Khordha district GA, Cuttack district GA	7	3,405	415	0	0
Punjab	IRM Energy Pvt. Ltd., GSPL	Fatehgarh Sahib, Amritsar	13	3,030	1516	7	16
Rajasthan	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	8	12,308	6,807	17	16
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	54	26,194	25,688	13	26
Tripura	Tripura Natural Gas Co. Ltd	Agartala	11	12,260	43,007	430	51
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	Meerut, Dibiyaapur, Mathura, Agra, Kanpur ga, Bareilly GA, Lucknow district, Moradabad GA, Firozabad Geographical Area (TTZ), Khurja GA, Allahabad, Varanasi and Auraiya, Kanpur Dehat & Etawah, Gorakhpur, Sant Kabir Nagar & Kushinagar, Bulandshahr, Jhansi	153	1,63,400	2,15,041	470	808
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd.	Udham Singh Nagar, Haridwar district GA	2	150	6,475	14	15
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,957	0	0	0
Total			1,906	35,17,652	57,10,239	29,253	9,846

22. 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

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

International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)			
Particulars	2017-18	2018-19	November 2019	Particulars	Petrol*	Diesel*	
Crude oil (Indian Basket)	56.43	69.88	62.54	Price charged to dealers (excluding Excise Duty and VAT)	35.24	37.98	
Petrol	67.83	75.58	71.33	Excise Duty	19.98	15.83	
Diesel	68.19	82.51	72.98	Dealers' Commission (Average)	3.59	2.51	
Kerosene	67.65	82.24	72.32	VAT (incl VAT on dealers' commission)	15.88	9.72	
LPG (\$/MT)	485.92	526.00	439.00	Retail Selling Price	74.69	66.04	
FO (\$/MT)	327.50	420.93	229.85				
Naphtha (\$/MT)	494.73	573.72	502.31				
Exchange (Rs./\$)	64.45	69.89	71.45				
Customs, excise duty & GST rates							
Product	Basic customs duty #	Excise duty	GST rates	Particulars	PDS SKO*	Subsidised Domestic LPG*	
Petrol	2.50%	Rs 19.98/Ltr	**	Price before taxes and dealers'/distributors' commission	31.05	600.05	
Diesel	2.50%	Rs 15.83/Ltr	**	Dealers'/distributors' commission	2.60	61.84	
PDS SKO	Nil	Not Applicable	5.00%	GST (incl GST on dealers'/distributors' commission)	1.68	33.11	
Non-PDS SKO	5.00%		18.00%	Retail Selling Price	35.33	695.00	
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 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.							
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	0.47	150			
Domestic LPG	10.23	1430	6.30	880			
Total	-	1,570	-	1,030			
Note: The above calculations are based on RTP for December 2019.							

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

Under-recoveries/subsidy & burden sharing			
PDS Kerosene			
Product	2017-18	2018-19	H1, 2019-20
	Rs./Crore		
Under recovery	4,672	5,950	1,349
Subsidy under DBTK #	113	117	0
Total	4,785	6,067	1,349
#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanism for direct transfer of subsidy paid to States/UTs.			
Domestic LPG under DBTL (Direct benefit transfer for LPG)			
Particulars	2017-18	2018-19	H1, 2019-20
	Rs./Crore		
DBTL subsidy	20,880	31,447	11,249
PME & IEC^	25	92	30
Total	20,905	31,539	11,279
PMUY (Pradhan Mantri Ujjwala Yojana)			
Particulars	2017-18	2018-19	H1, 2019-20
	Rs./Crore		
PMUY claims	2,496	5,647	1,284
PME & IEC^	63	34	43
Total	2,559	5,681	1,327
^ on payment basis (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)	197,468	35,332	93,501	15,771
Downstream Companies (PSU)	12,33,019	30,055	5,81,353	8,807
Standalone Refineries (PSU)	140,614	2,087	59,464	-715
Private-RIL	400,986	35,163	190,830	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	3,36,163	3,49,290	
% of total revenue receipts	24%	23%	20%	
State Governments	1,89,770	2,06,863	2,27,591	
% of total revenue receipts	9%	8%	8%	
Total (Rs. Crores)	5,24,945	5,43,026	5,76,881	
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				

24. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2016-17 (P)	2017-18 (P)	2018-19 (P)	2019-20 (P)	
				Target	April-November
ONGC Ltd	28,010	72,383	28,738	32,921	16,112
ONGC Videsh Ltd (OVL)	18,360	6,240	6,013	5,161	3,753
Oil India Ltd (OIL)	10,514	8,395	3,702	4,105	2,362
GAIL (India) Ltd	2,180	3,613	5,958	5,339	2,176
Indian Oil Corp. Ltd. (IOCL)	21,918	20,345	26,548	25,084	16,578
Hindustan Petroleum Corp. Ltd (HPCL)	5,861	7,134	11,689	9,500	8,014
Bharat Petroleum Corp. Ltd (BPCL)	16,810	8,161	10,084	7,900	5,054
Mangalore Refinery & Petrochem Ltd (MRPL)	614	1,281	1,072	818	892
Chennai Petroleum Corp. Ltd (CPCL)	1,293	963	1,208	1,105	730
Numaligarh Refinery Ltd (NRL)	500	387	459	455	204
Balmer Lawrie Co. Ltd (BL)	73	78	125	40	18
Engineers India Ltd (EIL) #	-	-	87	1212	43
Total	106,133	128,981	95,684	93,639	55,936

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional;

Included from 2018-19.

25. 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