

Ready Reckoner

Snapshot of India's Oil & Gas data

February, 2019



Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

As on 20.03.2019

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Highlights for the month

- Indigenous crude oil and condensate production during February 2019 was lower by 6.1% than that of February 2018. On cumulative basis de-growth of 4% was registered during April 2018 to February 2019 over the corresponding period of the previous year.
- Total crude oil processed during February 2019 was 20.1 MMT, which was at the same level as during February 2018. PSU/JV refineries registered an increase of 5% while private refineries registered a decrease of 9%. On cumulative basis an increase of 1.7% was registered in the total crude oil processed during April 2018 to February 2019 over the corresponding period of the previous year. Refineries processed 73.9% high sulphur crude oil during February 2019 against 77% during February 2018
- Production of petroleum products during February 2019 saw a de-growth of 0.7% over February 2018. On cumulative basis an increase of 3.1% was registered in the total production of petroleum products during April 2018 to February 2019 over the corresponding period of the previous year.
- Crude oil imports decreased by 2.9% during February 2019 and increased by 2.6% during April 2018 to February 2019 as compared to the same period of the previous year.
- Exports of products decreased by 21% and 9.7% during February 2019 and April 2018 to February 2019 respectively over the corresponding period of the previous year. Decrease in POL product exports during April 2018 to February 2019 was mainly due to decrease in exports of MS, naphtha, HSD, FO and VGO.
- Petroleum product consumption registered a growth of 3.8% during February 2019 and a cumulative growth of 3.2% during the period April 2018 to February 2019. Except for SKO (-12%), lubes & greases (-17.4%), bitumen (-3.8) and petcoke (-15.3%), all other products registered a growth during February 2019.

	<ul style="list-style-type: none"> Total LPG consumption recorded a positive growth of 14.2% during February 2019 and a cumulative growth of 6.4% for the period April 2018 to February 2019. During the period April 2018 to February 2019, 47.7 lakh DBCs and 418.9 lakh new connections were released out of which 333.1 lakh were released under PMUY. Under PMUY, nearly 189.4 lakh new connections have been released more during the current year in this period as compared to last year. A total of 689.2 lakh connections have been released under PMUY till 28.02.2019 since inception. During February 2019, out of the five regions, Northern region had the highest share in total LPG consumption of 32.5% followed by Southern region at 27.2%, Western region at 22%, Eastern region at 15.6% and North Eastern region at 2.7%. North Eastern region had the highest growth of 25.4% in total LPG consumption during February 2019.
	<ul style="list-style-type: none"> SKO consumption registered a de-growth of 12% during February 2019 and cumulative de-growth of 11.1% during the period April 2018 to February 2019. The cumulative reduction in PDS SKO allocation was 11.7% during FY 2018-19 compared to the same period of the previous year.
	<ul style="list-style-type: none"> Gross production of natural gas during February 2019 was 2565.8 MMSCM which was higher by 3.3% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 30057.4 MMSCM for the current financial year till February 2019 was higher by 0.6% compared with the corresponding period of the previous year.
	<ul style="list-style-type: none"> LNG import during February 2019 was 1916.6 MMSCM which was 9.2% lower than the corresponding month of the previous year. The cumulative import of 24765.4 MMSCM for the current year till February 2019 was higher by 4.3% compared with the corresponding period of the previous year.
	<ul style="list-style-type: none"> The price of Brent Crude averaged \$64.03/bbl during February 2019 as against \$59.46/bbl during January 2019 and \$65.19/bbl during February 2018. The Indian basket crude price averaged \$64.53/bbl during February 2019 as against \$59.27/bbl during January 2019 and \$ 63.54/bbl during February 2018.
	<ul style="list-style-type: none"> The import bill of crude oil is estimated to increase by 27% from \$88 billion in 2017-18 to \$112 billion in 2018-19 considering actuals upto December 2018 and Indian basket crude oil price at \$57.77/bbl and exchange rate at Rs. 70.73/\$ for January 2019 to March 2019.

1. Selected indicators of the Indian economy

Economic indicators		Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Population (as on 1 st May, 2011)	Billion	1.2	-	-	-	-	-
2	GDP at constant (2011-12 Prices)	Growth %	6.4	7.4	8.0 3 rd RE	8.2 2 nd RE	7.2 1 st RE	7.0 2 nd AE
3	Agricultural Production (Food grains)	MMT	265.1	252.0	251.5	275.1	277.5 2 nd AE	281.4 2 nd AE
		Growth %	3.1	-4.9	-0.2	9.4	0.9	1.4
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5	-3.4 RE

Economic indicators		Unit/ Base	2016-17	2017-18	February		April-February	
					2017-18	2018-19 (P)	2017-18	2018-19 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	4.6	4.4	[#] 7.5	[#] 1.7 QE	*4.1	*4.4
6	Imports	\$ Billion	384.4	465.6	38.3	36.3	422.8	464.0
7	Exports	\$ Billion	275.9	303.5	26.0	26.7	274.2	298.5
8	Trade Balance	\$ Billion	-108.5	-162.1	-12.3	-9.6	-148.6	-165.5
9	Foreign Exchange Reserves [@]	\$ Billion	370.0	424.4	420.6	399.2	-	-

IIP is for the month of [#]January and *April-January; [@]2016-17-as on March 31, 2017, 2017-18-as on March 30, 2018, February 2018- as on February 23, 2018 and January 2019-as on February 22, 2019; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

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

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

Details		Unit/ Base	2016-17	2017-18	February		April-February	
					2017-18	2018-19 (P)	2017-18	2018-19 (P)
1	Crude oil production in India	MMT	36.0	35.7	2.7	2.6	32.6	31.3
2	Consumption of petroleum products	MMT	194.6	206.2	16.8	17.4	187.5	193.5
3	Production of petroleum products	MMT	243.5	254.3	20.5	20.3	232.3	239.3
4	Gross natural gas production	MMSCM	31,897	32,648	2,484	2,566	29,867	30,057
5	Natural gas consumption	MMSCM	55,534	58,059	4,514	4,413	52,779	54,082
6	Imports & exports:							
	Crude oil imports	MMT	213.9	220.4	17.6	17.1	202.0	207.3
		\$ Billion	70.2	87.8	8.1	7.7	79.5	102.9
	Petroleum products (POL) imports	MMT	36.3	35.5	2.5	3.3	32.6	30.5
		\$ Billion	10.6	13.6	1.1	1.5	12.3	14.8
	Gross petroleum imports (Crude + POL)	MMT	250.2	255.9	20.1	20.4	234.6	237.8
		\$ Billion	80.8	101.4	9.2	9.2	91.8	117.7
	Petroleum products exports	MMT	65.5	66.8	5.2	4.1	61.5	55.6
		\$ Billion	29.0	34.9	3.1	2.4	31.8	34.9
	LNG imports	MMSCM	24,686	26,328	2,110	1,917	23,750	24,765
		\$ Billion	6.1	7.7	0.8	0.6	6.8	8.9
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	21.0	21.8	24.1	25.3	21.7	25.4
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	10.5	11.5	11.8	8.9	11.6	11.7
9	Import dependency of crude (on consumption basis)	%	81.7	82.9	83.9	84.4	82.9	83.8

October 2018 to February 2019 private import (POL) quantity prorated on the basis of October 2017-September 2018 actual data provided by DGCIS.

Crude oil imports (\$ Billion) during 2018-19 does not include value of crude oil quantity of 0.8 MMT imported at ISPRIL, Mangalore.

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2016-17	2017-18	February			April-February		
			2017-18	2018-19 (Target)*	2018-19 (P)	2017-18	2018-19 (Target)*	2018-19 (P)
ONGC	20.9	20.8	1.6	1.9	1.5	19.1	21.0	17.9
Oil India Limited (OIL)	3.3	3.4	0.3	0.3	0.2	3.1	3.4	3.0
Private / Joint Ventures (JVs)	10.4	9.9	0.8	0.8	0.7	9.0	9.4	8.8
Total Crude Oil	34.5	34.0	2.6	3.0	2.4	31.2	33.7	29.8
ONGC condensate	1.4	1.5	0.1		0.1	1.3		1.4
PSC condensate	0.1	0.2	0.02		0.02	0.2		0.2
Total condensate	1.5	1.6	0.1		0.1	1.5		1.6
Total (Crude + Condensate) (MMT)	36.0	35.7	2.7	3.0	2.6	32.6	33.7	31.3
Total (Crude + Condensate) (Million Bbl)	263.9	261.6	20.0	21.7	18.8	239.3	247.3	229.8

*Target is inclusive of condensate. **Note:** Some sub-totals/ totals may not add-up due to rounding off at individual levels

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

Details	2016-17	2017-18	February		April-February	
			2017-18	2018-19 (P)	2017-18	2018-19 (P)
Total domestic production (MMTOE)	67.9	68.3	5.2	5.1	62.5	61.4
Overseas production (MMTOE)	17.4	21.7	1.7	2.0	19.8	22.5
Overseas production as percentage of domestic production	25.6%	31.8%	32.5%	38.4%	31.6%	36.7%

Source: ONGC Videsh, GAIL, OIL, IOCL, HPCL & BPRL; **Note:** IOCL data for 2016-17 & 2017-18 revised.

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

Details		2016-17	2017-18	February		April-February	
				2017-18	2018-19 (P)	2017-18	2018-19 (P)
1	High Sulphur crude	177.4	188.4	15.5	14.8	172.9	177.5
2	Low Sulphur crude	67.9	63.6	4.6	5.2	57.9	57.2
Total crude processed		245.4	251.9	20.1	20.1	230.8	234.7
Percentage share of HS crude in total crude oil processing		72.3%	74.8%	77.0%	73.9%	74.9%	75.6%

6. Quantity and value of crude oil imports

Year	Quantity (MMT)	\$ Million	Rs. Crore
2017-18 (P)	220.4	87,803	5,66,450
2018-19 (Estimated)	228.6	111,525	7,81,171

Note: April - December, 2018 Imports are based on actuals and for January-March 2019 imports are estimated at average price of Indian basket crude oil for December 2018 i.e. \$57.77/bbl and average exchange rate for December 2018 i.e. Rs.70.73/\$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for January-March 2019 :

If crude price changes by one \$/bbl - Crude oil import bill changes by Rs. 3,029 crores

If exchange rate of Rs./\$ changes by Rs. 1/\$ - Crude oil import bill changes by Rs. 2,473 crores

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

Particulars		2016-17	2017-18	February		April-February	
				2017-18	2018-19 (P)	2017-18	2018-19 (P)
1	Indigenous crude oil processing	33.5	32.8	2.5	2.5	29.8	28.9
2	Products from indigenous crude (93.3% of crude oil processed)	31.3	30.6	2.3	2.3	27.8	26.9
3	Products from fractionators (Including LPG and Gas)	4.3	4.6	0.4	0.4	4.2	4.5
4	Total production from indigenous crude & condensate (2 + 3)	35.6	35.2	2.7	2.7	32.0	31.4
5	Total domestic consumption	194.6	206.2	16.8	17.4	187.5	193.5
% Self-sufficiency (4 / 5)		18.3%	17.1%	16.1%	15.6%	17.1%	16.2%

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

Company	Refinery	Installed capacity (1.3.2019) (MMTPA)	Crude oil processing (MMT)							
			2016-17	2017-18	February			April-February		
					2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)	2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)
IOCL	Barauni (1964)	6.0	6.5	5.8	0.5	0.5	0.5	5.2	5.9	6.1
	Koyali (1965)	13.7	14.0	13.8	1.2	1.1	1.1	12.6	12.3	12.5
	Haldia (1975)	7.5	7.7	7.7	0.7	0.7	0.6	7.0	7.3	7.3
	Mathura (1982)	8.0	9.2	9.2	0.7	0.7	0.8	8.4	8.5	8.9
	Panipat (1998)	15.0	15.6	15.7	1.3	1.2	0.9	14.2	14.7	14.6
	Guwahati (1962)	1.0	0.9	1.0	0.07	0.08	0.07	0.9	1.0	0.8
	Digboi (1901)	0.65	0.5	0.7	0.05	0.05	0.05	0.6	0.6	0.6
	Bongaigaon(1979)	2.35	2.5	2.4	0.2	0.2	0.2	2.2	2.0	2.3
	Paradip (2016)	15.0	8.2	12.7	0.8	1.2	1.3	12.3	13.1	13.2
	IOCL-TOTAL	69.2	65.2	69.0	5.3	5.7	5.5	63.4	65.5	66.2
CPCL	Manali (1969)	10.5	9.8	10.3	0.8	0.8	0.9	9.4	9.4	9.3
	CBR (1993)	1.0	0.5	0.5	0.03	0.00	0.01	0.5	0.3	0.4
		CPCL-TOTAL	11.5	10.3	10.8	0.9	0.8	0.9	9.8	9.7
BPCL	Mumbai (1955)	12.0	13.5	14.1	1.2	1.1	1.2	12.8	12.4	13.4
	Kochi (1966)	15.5	11.8	14.1	1.2	1.2	1.3	12.7	14.1	14.6
BORL	Bina (2011)	7.8	6.4	6.7	0.5	0.6	0.6	6.1	5.7	5.0
NRL	Numaligarh (1999)	3.0	2.7	2.8	0.2	0.2	0.2	2.6	2.6	2.7
	BPCL-TOTAL	38.3	34.4	37.7	3.1	3.1	3.4	34.2	34.9	35.7

Company	Refinery	Installed capacity (1.3.2019) (MMTPA)	Crude oil processing (MMT)							
			2016-17	2017-18	February			April-February		
					2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)	2017-18 (Actual)	2018-19 (Target)*	2018-19 (P)
ONGC	Tatipaka (2001)	0.066	0.09	0.08	0.006	0.005	0.007	0.07	0.05	0.06
MRPL	Mangalore (1996)	15.0	16.0	16.1	1.2	1.3	1.3	14.7	14.8	14.8
	ONGC-TOTAL	15.1	16.1	16.2	1.2	1.3	1.3	14.7	14.8	14.9
HPCL	Mumbai (1954)	7.5	8.5	8.6	0.7	0.7	0.7	7.9	7.7	7.9
	Visakh (1957)	8.3	9.3	9.6	0.8	0.7	0.8	8.8	8.7	8.9
HMEL	Bathinda (2012)	11.3	10.5	8.8	0.9	0.8	1.0	7.9	9.9	11.4
	HPCL- TOTAL	27.1	28.3	27.1	2.4	2.2	2.5	24.6	26.4	28.2
RIL	Jamnagar (DTA) (1999)	33.0	32.8	33.2	2.7	2.7	2.0	30.3	30.3	28.9
	Jamnagar (SEZ) (2008)	35.2	37.4	37.3	2.9	2.9	2.9	34.9	34.9	34.1
NEL [#]	Vadinar (2006)	20.0	20.9	20.7	1.6	1.7	1.6	18.9	16.7	17.1
	All India	249.4	245.4	251.9	20.1	20.4	20.1	230.8	233.1	234.7

*Targets are as received from MOPNG, #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 01.03.2019)

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,283	1,193	688	1,017	5,301	937	-	-	10419
	Cap (MMTPA)	60.6	8.4	10.7	11.3	48.6	6.0	-	-	145.6
Products	Length (KM)	-	654	-	-	8,748	2,241	3,371	2,395	17409
	Cap (MMTPA)	-	1.7	-	-	45.6	19.5	38.1	9.4	114.3

*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	2015-16	2016-17	2017-18	2018-19 (9M)
IOCL	Barauni	2.93	6.52	6.60	3.39
	Koyali	6.80	7.55	9.44	6.12
	Haldia	3.96	6.80	6.86	4.89
	Mathura	3.30	7.01	7.09	5.53
	Panipat	4.15	7.95	7.74	5.36
	Guwahati **	15.88	22.14	21.88	17.80
	Digboi **	16.17	24.49	24.86	23.63
	Bongaigaon **	11.09	20.15	20.62	17.84
	Paradip #	-0.65	4.22	7.02	4.22
	Weighted average	5.06	7.77	8.49	5.83
BPCL	Kochi	6.87	5.16	6.44	5.12
	Mumbai	6.37	5.36	7.26	5.38
	Weighted average	6.59	5.26	6.85	5.25
HPCL	Mumbai	8.09	6.95	8.35	6.00
	Visakhapatnam	5.46	5.51	6.55	4.44
	Weighted average	6.68	6.20	7.40	5.17
CPCL	Chennai	5.27	6.05	6.42	3.92
MRPL	Mangalore	5.20	7.75	7.54	3.72
NRL	Numaligarh **	23.68	28.56	31.92	26.76
BORL	Bina	11.70	11.80	11.70	10.10
RIL	Jamnagar	10.80	11.00	11.60	9.50
NEL [@]	Vadinar	10.81	9.14	8.95	*

*Data 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	2015-16	2016-17	2017-18	2018-19 (9M)
IOCL	Guwahati	1.26	1.12	3.70	1.40
	Digboi	4.16	7.73	8.27	9.43
	Bongaigaon	0.08	6.03	6.22	4.83
NRL	Numaligarh	8.06	8.50	11.43	10.67

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

Products	2017-18		February-2018		February-2019 (P)		Apr 2017-Feb 2018		Apr 2018-Feb 2019 (P)	
	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.4	23.3	1.0	1.9	1.0	2.2	11.3	21.3	11.6	22.7
MS	37.8	26.2	3.0	1.0	3.0	2.3	34.5	11.7	34.7	25.7
NAPHTHA	20.0	12.9	1.5	2.1	1.4	1.3	18.3	23.8	18.0	13.1
ATF	14.7	7.6	1.2	0.6	1.2	0.7	13.3	6.9	14.1	7.6
SKO	4.3	3.8	0.4	0.3	0.3	0.3	3.9	3.6	3.7	3.2
HSD	108.1	81.1	8.6	6.5	8.5	6.7	98.9	73.7	100.6	75.9
LDO	0.6	0.5	0.06	0.05	0.06	0.06	0.5	0.5	0.6	0.5
LUBES	1.0	3.9	0.1	0.4	0.1	0.3	0.9	3.5	0.8	3.6
FO/LSHS	10.3	6.7	0.7	0.5	0.8	0.5	9.5	6.2	9.3	6.0
BITUMEN	5.3	6.1	0.5	0.7	0.5	0.7	4.7	5.3	4.9	5.9
PET COKE	13.9	25.7	1.1	1.9	1.0	1.6	12.8	23.7	12.4	19.9
OTHERS	26.2	8.3	2.2	0.8	2.4	0.8	23.7	7.5	28.4	9.6
ALL INDIA	254.3	206.2	20.5	16.8	20.3	17.4	232.3	187.5	239.3	193.5
Growth (%)	4.4%	5.9%	7.8%	7.9%	-0.7%	3.8%	4.8%	5.8%	3.1%	3.2%

Note: Prod - Production; Cons - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2016-17	2017-18	February			April-February		
			2017-18	2018-19 (P)	Gr (%)	2017-18	2018-19 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	18871.4	20,351.8	1699.4	1921.5	13.1	18,556.8	19,750.8	6.4
LPG-Packed Non-Domestic	1775.9	2,085.8	177.8	223.1	25.5	1,904.3	2,143.9	12.6
LPG-Bulk	364.3	355.4	24.4	29.8	22.3	323.0	292.4	-9.5
Auto LPG	167.3	184.4	14.1	14.2	1.2	168.9	165.3	-2.2
Sub-Total (PSU Sales)	21,178.9	22,977.4	1,915.6	2,188.7	14.3	20,953.0	22,352.3	6.7
2. Direct Private Imports*	429.3	364.5	24.7	27.5	11.2	329.9	301.0	-8.8
Total (1+2)	21,608.2	23,341.8	1,940.3	2,216.2	14.2	21,283.0	22,653.4	6.4

*April to September 2018 import data are actuals provided by DGCIS and October 2018-February 2019 import data are prorated on the basis of October 2017 to September 2018 actual data provided by DGCIS.

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2015-16		2016-17		2017-18		April-December 2018 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	86,85,384	85,36,752	69,33,030	66,78,447	50,21,828	46,69,164	33,77,852	31,69,405

15. Industry marketing infrastructure (as on 01.03.2019) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	NEL ^{##}	SHELL	Others	Total
POL Terminal/ Depots (Nos.) [§]	125	78	83	18	2	-	6	312
Aviation Fuel Stations (Nos.) [@]	116	56	42	30	-	-	1	245
Retail Outlets (total) (Nos.) [^]	27,556	14,721	15,440	1,400	5,107	145	7	64,376
out of which Rural ROs	7,798	2,683	3,459	127	1,821	19	-	15,907
SKO/LDO agencies (Nos.)	3,889	1,001	1,638	-	-	-	-	6,528
LPG Distributors (total) (Nos.) (PSUs only)	11,802	5,851	5,764	-	-	-	-	23,417
LPG Bottling plants (Nos.) (PSUs only) [#]	89	51	48	-	-	-	3	191
LPG Bottling capacity (TMTPA) (PSUs only) ^{&}	9,246	3,942	4,197	-	-	-	173	17,558
LPG active domestic consumers (Nos. crore) (PSUs only)	12.2	6.7	7.2	-	-	-	-	26.2

[§](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).

16. Natural gas at a glance

(MMSCM)								
Details	2016-17	2017-18	February			April-February		
			2017-18	2018-19 (Target)	2018-19 (P)	2017-18	2018-19 (Target)	2018-19 (P)
(a) Gross production	31,897	32,648	2,484	2,811	2,566	29,867	32,506	30,057
- ONGC	22,088	23,429	1,800	2,045	1,954	21,416	23,744	22,540
- Oil India Limited (OIL)	2,937	2,881	209	225	204	2,645	2,861	2,487
- Private / Joint Ventures (JVs)	6,872	6,338	475	542	408	5,806	5,901	5,031
(b) Net availability (excluding flare gas and loss)	30,848	31,731	2,404		2,496	29,029		29,316
(c) LNG import	24,686	26,328	2,110		1,917	23,750		24,765
(d) Total consumption including internal consumption (b+c)	55,534	58,059	4,514		4,413	52,779		54,082
(e) Total consumption (in BCM)	55.5	58.1	4.5		4.4	52.8		54.1
(f) Import dependency based on consumption (%), {c/d*100}	44.5	45.3	46.7		43.4	45.0		45.8

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

17. 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	February 2019 (P)	55.7
Production of CBM gas	April 2018-February 2019 (P)	652.4
		MMSCM
		MMSCM

18. Major natural gas pipeline network as on 01.03.2019

Nature of pipeline		GAIL	Reliance	GSPL	ARN [^]	IOCL	Total
Natural gas	Length (KM)	11,410	1,784	2,593	299	140	16,226
	Cap (MMSCMD)	229.6	83.5	43.0	2.9	9.5	368.5

[^]Excludes CGD pipeline network

19. Gas pipelines under execution / construction as on 01.03.2019

Network/ Region	Entity	Length sanctioned (KM)	Design capacity (MMSCMD)	Pipeline size
Kochi - Kottanad - Bengaluru - Mangalore	GAIL(India) Ltd.	1,056	16	24"/18"/12"
Dabhol -Bengaluru (DBPL) Spur Lines, Phase-2	GAIL(India) Ltd.	302	16	36"/30"/24"/18"
Jagdishpur- Haldia-Bokaro-Dhamra (JHBDPL)	GAIL(India) Ltd.	2,539	16	30"/24"/18"/12"/8"/4"
Mallavaram-Bhopal-Bhilwara-Vijaipur	GSPL India Transco Ltd.	1,881	78.25	42"/36"/30"/24"/18"/12"
Mehsana - Bathinda	GSPL India Gasnet Ltd.	2,052	77.1	36"/24"/18"/12"
Bathinda -Jammu-Srinagar	GSPL India Gasnet Ltd.	725	42.4	24"/18"/16"/12"/8"/6"
Kakinada - Vizag-Srikakulam	AP Gas Distribution	391	90	24"/18"/8"/4"
Ennore- Nellore	Gas Transmission India Pvt.	250	36	24"/18"
Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin	Indian Oil Corporation Ltd.	1,385	84.7	28"/24"/16"/12"/10"
Jaigarh-Mangalore	H-Energy Pvt. Ltd.	635	17	24"
Total		11,216		

20. Existing LNG terminals

Location	Promoters	Capacity (MMTPA) as on 01.02.2019	Capacity utilisation in % April 2018-January 2019 (P)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	106.8%
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	83.2%
Dabhol	RGPL (GAIL - NTPC JV)	1.692 MMTPA*	20.0%
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	9.3%
Total Capacity		26.7 MMTPA	

* To increase to 5 MMTPA with breakwater

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.03.2019

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 (excl. area already authorized)	31	19,703	27,033	113	5
Assam	Assam Gas Co. Ltd	Upper Assam GA	0	0	32,267	1,070	402
Chandigarh	Indian Oil-Adani Gas Pvt. Ltd.	Chandigarh	5	7,500	9,598	0	1
Dadra & Nagar Haveli	Gujarat Gas Ltd.	UT of Dadra & Nagar Haveli GA	3	876	2,218	16	15
Daman and Diu	Indian Oil-Adani Gas Pvt. Ltd.	Daman	3	1,000	506	22	9
Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	470	10,63,111	10,69,100	2,531	1,710
Gujarat	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 incl. Kanjari and Vadtal villages GA and Palanpur	496	9,08,319	20,17,481	18,548	4,818

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.03.2019

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	63	1,57,289	95,361	278	472
Karnataka	Gail Gas Ltd., Megha Engineering & Infrastructures Ltd., Indian Oil-Adani Gas Pvt. Ltd.	Bengaluru rural and urban districts GA, Tumkur district GA, Belgaum district GA, Dharwad	12	1,079	15,430	116	72
Kerala	Indian Oil-Adani Gas Pvt. Ltd.	Ernakulam	4	900	1,032	10	1
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Gwalior GA, Indore GA including Ujjain city	38	35,853	52,605	124	184
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas 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	293	9,08,324	14,23,839	4,032	248
Odisha	GAIL (India) Ltd.	Khordha district GA, Cuttack district GA	6	2,346	225	0	0
Punjab	IRM Energy Pvt. Ltd., GSPL	Fatehgarh Sahib, Amritsar	3	1,735	335	1	11

21. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.03.2019

State	Entity operating	Geographical area/City	CNG stations	No. of CNG vehicles	PNG connections		
					Domestic	Commercial	Industrial
Rajasthan	Rajasthan State Gas Limited	Kota, Neemrana & Kukas	5	8,162	1,910	12	14
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	39	24,804	10,032	12	17
Tripura	Tripura Natural Gas Co. Ltd	Agartala	8	11,556	39,437	415	49
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.	Meerut, Dibrayapur, Mathura, Agra, Kanpur ga, Bareilly GA, Lucknow district, Moradabad GA, Firozabad Geographical Area (TTZ), Khurja GA, Allahabad, Varanasi	109	1,51,074	1,47,149	456	682
Uttarakhand	Indian Oil-Adani Gas Pvt. Ltd., Haridwar Natural Gas Pvt. Ltd.	Udham Singh Nagar, Haridwar district GA	1	100	783	2	4
West Bengal	Great Eastern Energy Corporation Ltd.	Kultora, Asansol, Raniganj, Durgapur	7	3,735	0	0	0
Total			1,596	33,07,466	49,46,341	27,758	8,714

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	2.50	5.30
April 2017 - September 2017	2.48	5.56
October 2017 - March 2018	2.89	6.30
April 2018 - September 2018	3.06	6.78
October 2018 - March 2019	3.36	7.67

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

International FOB prices/ Exchange rates (\$/bbl)				Price buildup of petroleum products (Rs./litre/Cylinder)		
Particulars	2016-17	2017-18	Apr'18-Feb'19	Particulars	Petrol*	Diesel*
Crude oil (Indian Basket)	47.56	56.43	70.17	Price charged to dealers (excluding Excise Duty and VAT)	35.65	40.94
Petrol	58.10	67.83	75.83	Excise Duty	17.98	13.83
Diesel	56.59	68.19	82.85	Dealer Commission (Average)	3.56	2.50
Kerosene	56.81	67.65	82.65	VAT (incl VAT on dealer commission)	15.44	9.88
LPG (\$/MT)	393.17	485.92	527.64	Retail selling price (RSP) -Rounded	72.63	67.15
FO (\$/MT)	258.92	327.50	421.26	Particulars	PDS SKO*	Sub. Dom LPG*
Naphtha (\$/MT)	415.17	494.73	578.16	Price before taxes and dealer/distributor commission (after rounding off adjustment)	26.55	617.20
Exchange (Rs./\$)	67.09	64.45	69.92	Dealer/distributor commission	2.59	50.88
Customs, excise duty & GST rates (as on 01.12.2018)				GST (incl GST on dealer/distributor commission)	1.46	33.42
Product	Basic customs duty #	Excise duty	GST rates	Retail Selling Price	30.60	701.50
Petrol	2.50%	Rs 17.98/Ltr	**	Less: Cash Compensation on LPG to consumers under DBTL		205.89
Diesel	2.50%	Rs 13.83/Ltr	**	Effective cost to consumer after subsidy		495.61
PDS SKO	Nil	Not Applicable	5.00%	*Petrol and diesel at Delhi as per IOCL are as on 16th March 2019. PDS SKO at Mumbai and Sub. Dom LPG at Delhi are as on 16th March 2019 & 1st March 2019 respectively.		
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)	5.00%		18.00%			
ATF	5.00%	11% *	**	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 \$		
Crude Oil	Nil+Rs.50/-MT as NCCD	Nil+Cess@ 20% +Rs.50 /-MT NCCD	**	Product	Impact of change in product price by \$1per bbl / \$10per MT	Impact of change in exchange rate by ₹ 1/\$
*2% for scheduled commuter airlines from regional connectivity scheme airports; ** Crude oil, Petrol, Diesel, ATF and Natural Gas are outside GST levy; # 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.				Per unit impact (₹/lit./cyl.)	Annualised financial impact (₹crore)	Per unit impact (₹/lit./cyl.)
PDS SKO				0.45	190	0.49
Domestic LPG				10.21	1370	6.68
Total				-	1,560	-
				Note: The above calculations are based on RTP for March 2019.		

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

Under-recoveries/subsidy & burden sharing				Sales & profit of petroleum sector (Rs. Crores)							
PDS Kerosene				Borrowings of OMCs (Rs. Crores), As on							
Product	2016-17	2017-18	2018-19 (9M)	2017-18		2018-19 (9M)					
				Turnover	PAT	Turnover	PAT				
Rs./Crore											
Under recovery	7,595	4,672	5,124	Upstream/midstream Companies (PSU)	1,48,473	27,231	149,106	30,373			
Subsidy under DBTK #	11	113	26	Downstream Companies (PSU)	10,20,395	35,622	9,33,153	17,861			
Total	7,605	4,785	5,150	Standalone Refineries (PSU)	1,20,430	5,181	106,158	1,215			
#DBTK subsidy excludes cash incentive/assistance for establishment of institutional mechanism for direct transfer of subsidy paid to States/UTs.				Private-RIL	3,15,357	33,612	310,965	26,607			
				Petroleum sector contribution to Central/State Govt.							
				Company		Mar`17	Mar`18	Dec`18			
				IOCL		54,820	58,030	64,573			
BPCL		23,159	23,351	22,767							
HPCL		21,250	20,991	20,618							
Domestic LPG under DBTL (Direct benefit transfer for LPG)				Subsidy as a percentage of GDP (at current prices)							
Particulars	2016-17	2017-18	2018-19 (9M)	2015-16		2016-17		2017-18			
				2015-16	2016-17	2016-17	2017-18	2017-18	2017-18		
Rs./Crore											
DBTL subsidy	12,905	20,880	25,700	Petroleum subsidy	0.25	0.18	0.17				
PME & IEC^	-	25	92	*Percentages are based on 9 month contribution vs 9 month adjusted annual budget							
Total	12,905	20,905	25,792								
PMUY (Pradhan Mantri Ujjwala Yojana)											
Particulars	2016-17	2017-18	2018-19 (9M)								
				Rs./Crore							
PMUY claims	2,999	2,496	3,754								
PME & IEC^	-	63	34								
Total	2,999	2,559	3,788								
^ on payment basis				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	2015-16 (P)	2016-17 (P)	2017-18 (P)	2018-19	
				Target	April-February (P)
ONGC Ltd	29,502	28,010	72,383	32,077	25,654
ONGC Videsh Ltd (OVL)	6,783	18,360	6,240	5,886	4,991
Oil India Ltd (OIL)	3,550	10,514	8,395	4,300	3,366
GAIL (India) Ltd	1,880	2,180	3,613	4,722	5,059
Indian Oil Corp. Ltd. (IOCL)	14,368	21,918	20,345	22,862	23,492
Hindustan Petroleum Corp. Ltd (HPCL)	5,459	5,861	7,134	8,425	8,938
Bharat Petroleum Corp. Ltd (BPCL)	10,926	16,810	8,161	7,400	8,993
Mangalore Refinery & Petrochem Ltd (MRPL)	1,550	614	1,281	744	876
Chennai Petroleum Corp. Ltd (CPCL)	1,318	1,293	963	1,010	848
Numaligarh Refinery Ltd (NRL)	237	500	387	428	296
Balmer Lawrie Co. Ltd (BL)	38	73	78	125	120
Engineers India Ltd (EIL) #	-	-	-	1356	78
Total	75,611	106,133	128,981	89,335	82,711

(P) Provisional; Includes expenditure on investment in JV/subsidiaries.

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
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	1.071	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	35.31 Cubic Feet	1 MMBTU	25.2 SCM @10000 kcal/SCM
1 BCM/year of Gas	2.74 MMSCMD	GCV (Gross Calorific Value)	10,000 kcal/SCM
1 TCF of Gas Reserve	3.88 MMSCMD	NCV (Net Calorific Value)	90% of GCV
1 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