Ready Reckoner

Snapshot of India's Oil & Gas data

February, 2018

Analysis • Knowledge • Information

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)

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Highlights for the month

- Indigenous crude oil and condensate production during February 2018 was lower by 2.4% than that of February 2017. While there was a marginal growth of 0.1% in OIL's production, ONGC registered de-growth of 3.3% during the month over February 2017. PSC fields registered de-growth of 1.1% during the month over February 2017. On cumulative basis, a decrease of 0.8% was registered in crude oil & condensate production over the period April 2016- February 2017.
- Total crude oil processed during February 2018 was 20.1 MMT, which was an increase of 5.4% over February 2017 mainly due to increase in crude oil processed by PSU refineries. On cumulative basis crude oil processed was higher by 3.0 % over the period April 2016- February 2017.
- Production of petroleum products during February 2018 saw a growth of 7.8% over February 2017. On cumulative basis a growth of 4.8% was recorded in production over the period April 2016- February 2017.
- Crude oil imports increased by 6.5% during February 2018 as compared to February 2017. On cumulative basis crude oil imports increased by 3.2% over the corresponding period of the previous year. Product imports increased by 6.2% during February 2018 as compared to February 2017. On cumulative basis, product imports decreased by 0.5% over the corresponding period of previous year.
- Export of POL products increased by 14.9% during February 2018 as compared to February 2017. On cumulative basis, an increase of 4.3% was recorded in product exports over the period April- February 2016-17.
- Petroleum product consumption registered a growth of 7.7% during February 2018 as compared to -4.9% de-growth during February 2017. Except for naphtha & SKO all other products registered positive growth during February 2018. The higher growth during February 2018 was mainly due to low base volume in the month of February 2017 because of demonetization. During the period April 2017 to February 2018, petroleum product consumption registered a growth of 5.1% as compared to 6.0% growth during the same period last year. During the period April 2017 to February 2018, SKO (-28.5%), naphtha (-7.3%) and FO/LSHS (-6.6%) witnessed high de-growth in consumption.

•	Total LPG consumption continuously for the last fifty four months in a row recorded a positive growth. Growth of 7.9% during February 2018 and a cumulative growth of 7.9 % for the period April 2017 to February 2018 was observed. Out of the five regions, Northern region had the highest share in consumption of 31.4% followed by Southern region at 28.5%, Western region at 22.2%, Eastern region at 15.6% and North Eastern region at 2.4% during the period April 2017 to February 2018. During the period April 2017 to February 2018, 63.2 lakh DBCs and 263.7 lakh new connections were released out of which 143.7 lakh were released under PMUY. Total 344.1 lakh connections were released under PMUY till 28.02.2018 since inception.
•	SKO consumption registered a de-growth of -16.7 % during February 2018 and cumulative de-growth of -28.5% during the period April 2017 to February 2018. This was mainly because of reduced allocation to the states and voluntary surrender of PDS SKO quota by Haryana, Punjab, Dadra & Nagar Haveli, Daman & Diu, Puducherry and Andhra Pradesh.
•	Gross production of natural gas for the month of February 2018 was 2484.1 MMSCM which was lower by 1.5% compared with the corresponding month of the previous year. The cumulative gross production of natural gas of 29866.7 MMSCM for the current financial year till February 2018 was higher by 2.5% compared with the corresponding period of the previous year (29146.4 MMSCM).
•	LNG import for the month of February 2018 was 2110.0 MMSCM which was 1.0% lower than the corresponding month of the previous year. The cumulative import of 23910.2 MMSCM for the current year till February 2018 was higher by 6.1% compared with the corresponding period of the previous year (22531.4 MMSCM).
•	The price of Brent Crude averaged $65.19/bbl during February 2018 as against $69.18/bbl during January 2018. The Indian basket crude averaged $63.54/bbl during February 2018 as against $67.06/bbl during the previous month.
•	The import bill of crude oil is estimated to increase by 25% from $70 billion in 2016-17 to $88 billion in 2017-18 considering Indian basket crude oil price of $65/bbl and $/Rs = 65 for the balance part of the year.

1. Selected indicators of the Indian economy

	Economic indicators	Unit/ Base	2013-14	2014-15	2015-16	2016-17	2017-18
1	Population (as on 1st May, 2011)	Billion	1.2	-	-	-	-
2	GDP at Factor Cost (Constant prices)*	Growth %	6.4	7.4 3rd RE	8.2 2nd RE	7.1 1st RE	6.6 2nd AE
3	Agricultural Production (Food grains)	MMT	265.0	252.0	251.6	275.7 4th AE	277.5 2nd AE
		Growth %	3.1	-4.9	-0.2	9.6	0.7
4	Gross Fiscal Deficit	%	-4.5	-4.1	-3.9	-3.5	-3.5 RE

	Economic indicators	Unit/ Base	2015-16	2016-17	February (P)		April-February (P)	
					2017	2018	2016-17	2017-18
5	Index of Industrial Production#	Growth %	3.3	4.6	3.5	7.5	5.0	4.1
6	Imports	$ Billion	381.0	384.4	34.2	37.8	344.4	416.9
7	Exports	$ Billion	262.3	275.9	24.7	25.8	246.6	273.7
8	Trade Balance	$ Billion	-118.7	-108.5	-9.5	-12.0	-97.9	-143.1
9	Foreign Exchange Reserves @	$ Billion	355.6	370.0	362.8	420.6		-

*Revised on account of using new series of IIP and WPI with base 2011-12; #IIP is for the month of January 2018 & cumulative for Apr'17-Jan'18, Base year of IIP changed to 2011-12; @2015-16-as on Mar 25, 2016; 2016-17-as on Mar 31, 2017, February 2017- as on February 24, 2017 and February 2018-as on February 23, 2018; E-Estimates; AE-Advanced Estimates; BE-Budget Estimates; RE-Revised Estimates.

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

Details		Unit/ Base	2015-16	2016-17	February		April-February	
					2017	2018 (P)	2016-17	2017-18 (P)
1	Crude oil production in India	MMT	36.9	36.0	2.8	2.7	32.9	32.6
2	Consumption of petroleum products	MMT	184.7	194.6	15.5	16.7	177.2	186.2
3	Production of petroleum products	MMT	231.9	243.5	19.0	20.5	221.7	232.3
4	Imports & exports:							
	Crude oil imports	MMT	202.9	213.9	16.5	17.5	195.7	202.0
		$ Billion	64.0	70.2	6.3	8.1	63.5	79.5
	Petroleum products (POL) imports	MMT	29.5	36.3	2.6	2.7	33.1	32.9
		$ Billion	10.0	10.6	1.0	1.0	9.4	12.0
	Gross petroleum imports (Crude + POL)	MMT	232.3	250.2	19.0	20.3	228.8	234.9
		$ Billion	73.9	80.8	7.3	9.1	73.0	91.5
	Petroleum products exports	MMT	60.5	65.5	4.6	5.2	58.9	61.5
		$ Billion	27.1	29.0	2.3	3.1	25.9	31.7
	LNG imports	$ Billion	6.7	6.1	0.7	0.8	5.5	6.9
5	Petroleum imports as percentage (%) of India's gross imports (in value)	%	19.4	21.0	21.4	24.0	21.2	22.0
6	Petroleum exports as percentage (%) of India's gross exports (in value)	%	10.3	10.5	9.3	11.9	10.5	11.6
7	Import dependency of crude (on consumption basis)	%	80.6%	81.7%	82.2%	83.9%	81.7%	82.8%

3. Indigenous crude oil production (Million Metric Tonnes)

Details	2015-16	2016-17	February			April-February		
			2017 (Actual)	2018 (P) (Target)*	2018 (P)	2016-17 (Actual)	2017-18 (P) (Target)*	2017-18 (P)
ONGC	21.1	20.9	1.6	1.8	1.6	19.0	21.1	19.1
Oil India Limited (OIL)	3.2	3.3	0.3	0.3	0.3	3.0	3.4	3.1
Private / Joint Ventures (JVs)	11.2	10.4	0.8	0.8	0.8	9.5	9.7	9.0
Total Crude Oil	**35.5**	**34.5**	**2.7**	**2.9**	**2.6**	**31.5**	**34.2**	**31.2**
Condensate	1.4	1.5	0.1		0.1	1.4		1.5
Total (Crude + Condensate) (MMT)	**36.9**	**36.0**	**2.8**	**2.9**	**2.7**	**32.9**	**34.2**	**32.6**
Total (Crude + Condensate) (Million Bbl)	**270.8**	**263.9**	**20.5**	**21.2**	**20.0**	**241.3**	**250.7**	**239.3**

*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	2015-16	2016-17	February		April-February	
			2017	2018 (P)	2016-17	2017-18 (P)
Total domestic production (MMTOE)	69.2	67.9	5.3	5.2	62.1	62.5
Overseas production (MMTOE)	10.1	16.2	1.6	1.5	14.2	17.7
Overseas production as percentage (%) of domestic production	**14.6%**	**23.9%**	**30.4%**	**29.6%**	**22.8%**	**28.3%**

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

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

Details		2015-16	2016-17	February		April-February	
				2017	2018 (P)	2016-17	2017-18 (P)
1	High Sulphur crude	166.1	177.4	13.7	15.5	162.1	172.9
2	Low Sulphur crude	66.7	67.9	5.4	4.6	61.9	57.9
Total crude processed		**232.9**	**245.4**	**19.1**	**20.1**	**224.0**	**230.8**
Share of HS crude in total crude oil processing		**71.3%**	**72.3%**	**71.8%**	**77.0%**	**72.4%**	**74.9%**

6. Quantity and value of crude oil imports			
Year	Quantity (MMT)	$ Million	Rs. Crore
2016-17	213.93	70,196	4,70,159
2017-18 (Estimated)	219.15	87,725	5,65,418

Note: April 2017-February 2018 crude oil imports are based on actuals and for March 2018, crude oil imports are estimated at crude oil price $ 65/bbl and exchange rate Rs. 65/$.

Impact of variation in crude oil price & exchange rate on value of crude oil imports for March 2018 :

If crude prices changes by one $/bbl - Crude oil Import bill changes by Rs. 823 crores ($0.13 bn)

If exchange rate of Rs./$ changes by Rs. 1/$ - Crude oil Import bill changes by Rs. 823 crores ($0.13 bn)

7. Self-sufficiency in petroleum products (Million Metric Tonnes)							
Particulars		2015-16	2016-17	February		April-February	
				2017	2018 (P)	2016-17	2017-18 (P)
1	Indigenous crude oil processing	34.1	33.5	2.6	2.5	30.6	29.8
2	Products from indigenous crude (93.3% of crude oil processed)	31.8	31.3	2.4	2.3	28.6	27.8
3	Products from fractionators (Including LPG and Gas)	4.0	4.3	0.3	0.4	3.9	4.2
4	Total production from indigenous crude & condensate **(2 + 3)**	35.8	35.6	2.8	2.7	32.5	32.0
5	Total domestic consumption	184.7	194.6	15.5	16.7	177.2	186.2
% Self-sufficiency (4 / 5)		**19.4%**	**18.3%**	**17.8%**	**16.1%**	**18.3%**	**17.2%**

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

Company	Refinery	Installed capacity (1.03.2018) (MMTPA)	Crude oil processing (MMT)							
			2015-16	2016-17	February			April-February		
					2017 (Actual)	2018 (P) (Target)	2018 (P)	2016-17 (Actual)	2017-18 (P) (Target)	2017-18 (P)
IOCL	Barauni (1964)	6.0	6.5	6.5	0.5	0.5	0.5	6.0	5.2	5.2
	Koyali (1965)	13.7	13.8	14.0	1.0	1.1	1.2	12.8	11.6	12.6
	Haldia (1975)	7.5	7.8	7.7	0.6	0.6	0.7	7.0	6.7	7.0
	Mathura (1982)	8.0	8.9	9.2	0.7	0.6	0.7	8.4	7.7	8.4
	Panipat (1998)	15.0	15.3	15.6	1.2	1.2	1.3	14.2	13.9	14.2
	Guwahati (1962)	1.0	0.9	0.9	0.07	0.07	0.07	0.8	0.8	0.9
	Digboi (1901)	0.65	0.6	0.5	0.04	0.04	0.05	0.5	0.5	0.6
	Bongaigaon(1979)	2.35	2.4	2.5	0.2	0.2	0.2	2.3	2.1	2.2
	Paradip (2016)	15.0	1.8	8.2	0.9	1.2	0.8	7.0	11.7	12.3
	IOCL TOTAL	**69.2**	**58.0**	**65.2**	**5.3**	**5.5**	**5.3**	**58.9**	**60.1**	**63.4**
CPCL	Manali (1969)	10.5	9.1	9.8	0.4	0.8	0.8	9.0	8.9	9.4
	CBR (1993)	1.0	0.5	0.5	0.04	0.04	0.03	0.5	0.5	0.5
	CPCL-TOTAL	**11.5**	**9.6**	**10.3**	**0.5**	**0.8**	**0.9**	**9.5**	**9.4**	**9.8**
BPCL	Mumbai (1955)	12.0	13.4	13.5	0.9	1.1	1.2	12.9	12.1	12.8
	Kochi (1966)	15.5	10.7	11.8	1.1	1.2	1.2	10.7	12.4	12.7
BORL	Bina (2011)	6.0	6.4	6.4	0.5	0.5	0.5	5.7	5.5	6.1
NRL	Numaligarh (1999)	3.0	2.5	2.7	0.2	0.2	0.2	2.5	2.4	2.6
	BPCL-TOTAL	**36.5**	**33.0**	**34.4**	**2.7**	**3.0**	**3.1**	**31.8**	**32.4**	**34.2**

Company	Refinery	Installed capacity (1.3.2018) (MMTPA)	Crude oil processing (MMT)							
			2015-16	2016-17	February			April-February		
					2017 (Actual)	2018 (P) (Target)	2018 (P)	2016-17 (Actual)	2017-18 (P) (Target)	2017-18 (P)
ONGC	Tatipaka (2001)	0.1	0.07	0.09	0.007	0.005	0.006	0.08	0.06	0.07
MRPL	Mangalore (1996)	15.0	15.5	16.0	1.2	1.3	1.2	14.5	14.6	14.7
	ONGC TOTAL	**15.1**	**15.6**	**16.1**	**1.2**	**1.3**	**1.2**	**14.6**	**14.6**	**14.7**
HPCL	Mumbai (1954)	7.5	8.0	8.5	0.7	0.7	0.7	7.8	7.8	7.9
	Visakh (1957)	8.3	9.2	9.3	0.8	0.8	0.8	8.5	8.7	8.8
HMEL	Bathinda (2012)	11.3	10.7	10.5	0.8	0.9	0.9	9.8	8.3	7.9
	HPCL- TOTAL	**27.1**	**27.9**	**28.3**	**2.3**	**2.3**	**2.4**	**26.0**	**24.8**	**24.6**
RIL*	Jamnagar (DTA) (1999)	33.0	32.4	32.8	2.5	2.5	2.7	30.0	30.0	30.3
	Jamnagar (SEZ) (2008)	35.2	37.1	37.4	2.9	2.9	2.9	34.1	34.1	34.9
EOL	Vadinar (2006)	20.0	19.1	20.9	1.6	1.7	1.6	19.2	18.6	18.9
All India		**247.6**	**232.9**	**245.4**	**19.1**	**20.0**	**20.1**	**224.0**	**224.0**	**230.8**

* RIL target for 2017-18 is previous year crude processing. **Note:** Some sub-totals/ totals may not add up due to rounding off at individual levels.

9. Major crude oil and product pipeline network

Details		ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total
Crude Oil	Length (KM)	1,191	1,193	660	1,017	5,301	937	-	-	10299
(as on 1.3.2018)	Cap (MMTPA)	58.5	8.4	8.7	9.0	48.6	6.0	-	-	139.2
Products	Length (KM)	-	654	-	-	7,950	1,948	3,371	2,688	16611
(as on 1.3.2018)	Cap (MMTPA)	-	1.7	-	-	46.2	16.2	37.1	9.3	110.5

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

10. Gross Refining Margins (GRM) of refineries ($/bbl)					
Company	**Refinery**	**2014-15**	**2015-16**	**2016-17**	**Apr-Dec'2017**
IOCL	Barauni	-1.20	2.93	6.52	6.10
	Koyali	4.79	6.80	7.55	9.44
	Haldia	-1.51	3.96	6.80	6.12
	Mathura	-2.19	3.30	7.01	6.72
	Panipat	-1.97	4.15	7.95	7.59
	Guwahati **	8.68	15.88	22.14	22.04
	Digboi **	13.73	16.17	24.49	25.00
	Bongaigaon **	-0.26	11.09	20.15	20.19
	Paradip #	-	-0.65	4.22	7.14
	Weighted average	**0.27**	**5.06**	**7.77**	**8.28**
BPCL	Kochi	3.17	6.87	5.16	6.49
	Mumbai	3.97	6.37	5.36	7.44
	Weighted average	**3.62**	**6.59**	**5.26**	**6.97**
HPCL	Mumbai	4.88	8.09	6.95	8.40
	Visakhapatnam	1.12	5.46	5.51	6.71
	Weighted average	**2.84**	**6.68**	**6.20**	**7.51**
CPCL	Chennai	1.97	5.27	6.05	6.64
MRPL	Mangalore	-0.64	5.20	7.75	7.42
NRL	Numaligarh **	16.67	23.68	28.56	31.20
BORL	Bina	6.10	11.70	11.80	11.60
RIL	Jamnagar	8.60	10.80	11.00	11.90
Essar	Vadinar	8.37	10.81	9.14	*

*Being unlisted company, quarterly results are not declared; ** GRM of North Eastern refineries are including excise duty benefit. For GRM excluding excise duty benefit refer table 11; # Commissioned in February 2016.

11. GRM of North-East refineries excluding excise duty benefit ($/bbl)					
Company	**Refinery**	**2014-15**	**2015-16**	**2016-17**	**Apr-Dec'2017**
IOCL	Guwahati	0.96	1.26	1.12	3.76
	Digboi	5.42	4.16	7.73	7.68
	Bongaigaon	-6.51	0.08	6.03	5.81
NRL	Numaligarh	9.46	8.06	8.50	10.69

12. Production and consumption of petroleum products (Million Metric Tonnes)										
Products	**2016-17**		**February 2017**		**February 2018 (P)**		**April 2016-February 2017**		**April 2017-February 2018 (P)**	
	Prod^n	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**	**Prod^n**	**Consump^n**
LPG	11.3	21.6	0.9	1.8	1.0	1.9	10.2	19.7	11.3	21.3
MS	36.6	23.8	2.9	1.9	3.0	2.1	33.1	21.7	34.5	23.7
NAPHTHA	19.7	13.2	1.5	1.1	1.5	1.0	17.9	12.1	18.3	11.3
ATF	13.8	7.0	1.1	0.6	1.2	0.6	12.5	6.4	13.3	6.9
SKO	6.0	5.4	0.4	0.4	0.4	0.3	5.5	5.0	4.0	3.6
HSD	102.1	76.0	7.8	6.2	8.6	6.5	92.9	69.2	98.7	73.7
LDO	0.6	0.4	0.07	0.04	0.06	0.05	0.6	0.4	0.5	0.5
LUBES	1.0	3.5	0.08	0.3	0.09	0.3	1.0	3.2	0.9	3.4
FO/LSHS	12.0	7.2	0.7	0.5	0.7	0.5	11.3	6.6	9.5	6.2
BITUMEN	5.2	5.9	0.5	0.6	0.5	0.6	4.6	5.2	4.7	5.2
PET COKE	12.9	24.0	1.0	1.7	1.1	2.2	11.8	21.8	12.8	24.1
OTHERS	22.3	6.6	2.0	0.5	2.2	0.6	20.3	5.9	23.9	6.5
ALL INDIA	**243.5**	**194.6**	**19.0**	**15.5**	**20.5**	**16.7**	**221.7**	**177.2**	**232.3**	**186.2**
Growth (%)	**5.0%**	**5.4%**	**-4.9%**	**-4.9%**	**7.8%**	**7.7%**	**6.0%**	**6.0%**	**4.8%**	**5.1%**

Note: Prod^n - Production; Consump^n - Consumption

13. LPG consumption (Thousand Metric Tonne)

LPG category	2015-16	2016-17	February			April-February		
			2017	2018 (P)	Gr (%)	2016-17	2017-18 (P)	Gr (%)
1. PSU Sales :								
LPG-Packed Domestic	17,181.7	18,871.4	1,574.4	1,699.3	7.9	17,207.3	18,556.7	7.8
LPG-Packed Non-Domestic	1,464.4	1,775.9	157.3	177.8	13.0	1,630.0	1,904.3	16.8
LPG-Bulk	317.2	364.3	28.7	24.4	-15.1	336.3	322.1	-4.2
Auto LPG	170.9	167.3	13.7	14.1	2.2	152.5	168.8	10.7
Sub-Total (PSU Sales)	**19,134.2**	**21,178.9**	**1,774.1**	**1,915.5**	**8.0**	**19,326.1**	**20,951.9**	**8.4**
2. Direct Private Imports	489.0	358.4	30.0	30.9	3.0	394.1	334.9	-15.0
Total (1+2)	**19,623.2**	**21,537.3**	**1,804.1**	**1,946.4**	**7.9**	**19,720.2**	**21,286.7**	**7.9**

14. Kerosene allocation vs upliftment (Kilo Litres)

Product	2014-15		2015-16		2016-17		April-December 2016		April-December 2017 (P)	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
Kerosene	89,75,538	88,78,352	86,85,384	85,36,752	69,33,030	66,78,447	54,62,868	52,62,830	38,35,820	35,66,511

15. Industry marketing infrastructure (as on 01.3.2018) (Provisional)

Particulars	IOCL	BPCL	HPCL	RIL	ESSAR	SHELL	Others	Total
POL Terminal/ Depots **(Nos.)**	127	78	81	18$	2	-	6*	**312**
Aviation Fuel Stations **(Nos.)**	106	51	40	28	-	-	1@	**226**
Retail Outlets (total) **(Nos.)**	26,847	14,341	14,936	1,400	4,354	100	5^	**61,983**
out of which, Rural ROs	7,425	2,597	3,259	127	1,536	12	-	**14,956**
SKO/LDO agencies **(Nos.)**	3,899	1,001	1,638	-	-	-	-	**6,538**
LPG Distributors (total) **(Nos.) (PSUs only)**	10,009	4,926	4,782	-	-	-	-	**19,717**
LPG Bottling plants **(Nos.) (PSUs only)**	91	50	47	-	-	-	1#	**189**
LPG Bottling capacity **(TMTPA) (PSUs only)**	9,085	3,723	3,882	-	-	-	24~	**16,714**
LPG registered domestic consumers **(Nos. crore) (PSUs only)**	12.6	6.6	6.8	-	-	-	-	**26.0**
LPG active domestic consumers **(Nos. crore) (PSUs only)**	10.4	5.7	6.1	-	-	-	-	**22.1**

$ RIL= 5 Terminals and 13 Mini Depots; *4 MRPL & 2 NRL; @ ShellMRPL -1, ^ MRPL-5 # NRL-1; ~ NRL-24

16. Natural gas at a glance

(MMSCM)

Details	2015-16	2016-17	February			April-February		
			2017 (Actual)	2018 (P) (Target)	2018 (P)	2016-17 (Actual)	2017-18 (P) (Target)	2017-18 (P)
(a) Gross production	32,249	31,897	2,523	2,832	2,484	29,146	32,003	29,867
- ONGC	21,177	22,088	1,773	1,975	1,800	20,116	22,003	21,416
- Oil India Limited (OIL)	2,838	2,937	225	245	209	2,686	2,752	2,645
- Private / Joint Ventures (JVs)	8,235	6,872	524	612	475	6,345	7,248	5,806
(b) Net availability (excluding flare gas and loss)	31,129	30,848	2,447		2,404	28,179		29,029
(c) LNG import	21,388	24,686	2,132		2,110	22,531		23,910
(d) Total consumption including internal consumption (Net availability+Import) (b+c)	52,517	55,534	4,579		4,514	50,711		52,939
(e) Total consumption **(in BCM)**	52.5	55.5	4.6		4.5	50.7		52.9
(f) Import dependency based on consumption (%), {c/d*100}	40.7	44.5	46.6		46.7	44.4		45.2

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		9.2	TCF
Established CBM resources		9.9	TCF
Total available coal bearing areas		26,000	Sq. KM
Exploration initiated		17,200	Sq. KM
Blocks awarded		33	Nos.
Production of CBM gas	February (P)	62.6	MMSCM
Production of CBM gas-Cumulative	April-February (P)	664.4	MMSCM

18. Gas pipelines under execution / construction as on 01.02.2018

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)	GAIL (India) Ltd	302	16	36"/30"/24"/18"
Surat - Paradip	GAIL (India) Ltd	2,112	74.81	36"/24"/18"
Jagdishpur- Haldia-Bokaro-Dhamra	GAIL (India) Ltd	2,539	16	30”/24"/18"/12”/8”/4”
Mallavaram – Bhopal - Bhilwara	GSPC India Transco Ltd	2,042	78.25	42”/36"/30"/24"/18"/12”
Mehsana - Bathinda	GSPC India Gasnet Ltd	2,052	77.11	36”/24”/18”/12”
Bathinda - Jammu - Srinagar	GSPC India Gasnet Ltd	725	42.42	24”/18”/16”/12”/8”/6”
Kakinada - Vizag - Srikakulam	AP Gas Distribution Co.	391	90	24”/18”/8”/4”
Ennore - Nellore	Gas Transmission India Pvt. Ltd	250	36	24”/18”
Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam-Madurai-Tuticorin	Indian Oil Corporation Limited	1,385	84.67	28”/24”/16”/12” /10”
Jaigarh-Mangalore	H-Energy Pvt. Ltd	635	17	24"
Total		**13,489**		

19. Existing LNG terminals

Location	Promoters	Capacity (MMTPA) as on 01.02.2018	Capacity utilisation in % April 2017-January 2018 (P)
Dahej	Petronet LNG Ltd (PLL)	15 MMTPA	105.3
Hazira	Hazira LNG Pvt Ltd (HLPL)	5 MMTPA	57.0
Dabhol	RGPPL (GAIL - NTPC JV)	1.692 MMTPA in phase-1 without break water-to be increased to 5 MMTPA	49.3
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	12.8
Total Capacity		**26.7 MMTPA**	

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2018							
State	**Entity operating**	**Geographical area**	**CNG stations**	**PNG connections**			**No. of CNG vehicles**
				Domestic	**Industrial**	**Commercial**	
Haryana	Haryana City Gas Distribution Ltd, Adani Gas Limited, GAIL Gas Ltd., Indraprastha Gas Ltd.	Sonepat, Faridabad, Gurgaon, Rewadi	46	71,748	319	224	1,25,227
Andhra Pradesh	Bhagyanagar Gas Ltd, Godavari Gas Pvt.Ltd.	Kakinada, Vijayawada, East/ West Godavari	18	12,037	1	50	16,934
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, Sabarkantha and Patan, Surat-Bharuch-Ankleswar GA, Nadiad GA,Navsari GA, Rajkot GA, Surendra Nagar GA, Hazira GA, Valsad GA, Jamnagar GA, Bhavnagar GA, Kutch (West) GA, Palghar District and Thane Rural GA, UT of Dadra and Nagar Haveli GA, Amreli District GA, Dahej-Vagra Taluka GA, Dahod District GA, Panchmahal District GA, Anand (Exclusive area authorised) district GA, Ahmedabad (Excluding area already authorised) district GA, Vadodara, Vadodara Rural and Ahmedabad Urban, Anand and Palanpur.	420	18,06,416	4,493	17,681	9,04,126

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2018							
State	Entity operating	Geographical area	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
Telangana	Bhagyanagar Gas Ltd.	Hyderabad	29	7,175	5	8	24,290
Assam	Assam Gas Co. Ltd	Tinsukia, Dibrugarh, Sibsagar, Jorhat, Golaghat	0	31,217	405	1,048	0
Madhya Pradesh	Aavantika Gas Ltd, GAIL Gas Ltd	Dewas, Vijaipur, Indore including Ujjain, Gwalior	26	37,257	121	88	30,599
Rajasthan	Rajasthan State Gas Limited	Kota	3	249	15	2	6,818
New Delhi	Indraprastha Gas Ltd .	NCT of Delhi (Including Noida & Ghaziabad)	424	8,53,703	1,161	2,132	10,22,307
Karnataka	Gail Gas Ltd.	Bengaluru	3	4,788	18	36	325
Chandigarh	IndianOil- Adani Gas	Chandigarh	4	5,909	0	0	4,000
Kerala	IndianOil- Adani Gas	Ernakulam	4	1,140	0	2	0
Daman and Diu	IndianOil- Adani Gas	Daman and Diu	2	611	1	6	500
Dadra & Nagar Haveli	Gujarat Gas Ltd.	Dadra & Nagar Haveli	1	404	6	0	0
Odisha	GAIL (India) Ltd.	Bhubaneswar	2	69	0	0	265

20. Status of PNG connections, CNG stations and CNG vehicles across India (Nos.) as on 01.02.2018

State	Entity operating	Geographical area	CNG stations	PNG connections			No. of CNG vehicles
				Domestic	Industrial	Commercial	
Maharashtra	Mahanagar Gas Ltd, Maharashtra Natural Gas Ltd, Gujarat Gas Limited	Mumbai, Greater Mumbai including Thane City, 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 and Palghar and Thane Rural.	262	11,65,308	217	3,680	7,82,539
Tripura	Tripura Natural Gas Co. Ltd	Agartala	6	32,901	50	399	10,500
West Bengal	Greater Calcutta Gas Supply Corporation Ltd	Kolkata	7	0	0	0	3,432
Uttar Pradesh	GAIL Gas Ltd, Sanwariya GasLtd, Green Gas Ltd, Central U.P. Gas Ltd, Siti Energy Ltd, Adani Gas Ltd, Indian Oil-Adani Gas Pvt. Ltd.	Meerut, Divyapur, Mathura, Agra, Kanpur, Bareilly, Lucknow, Moradabad, Firozabad Geographical Area (TTZ), Khurja and Allahabad	69	85,953	606	355	1,34,977
Total			**1,326**	**41,16,885**	**7,418**	**25,711**	**30,66,839**

21. Major natural gas pipeline network as on 01.02.2018

Nature of pipeline		GAIL	Reliance	GSPL	ARN	IOCL	ONGC	Total
Natural gas	Length (KM)	11092	1784	2618	817	140	24	**16475**
	Cap (MMSCMD)	242.0*	83.5	43.0	3.2	9.5	6.0	**387.3**

*GAIL's pipeline capacity is inclusive of CJPL (5 MMSCMD) and DBPL (31 MMSCMD) which is the extension of DVPL-2 / VDPL.

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

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

International FOB prices/ Exchange rates ($/bbl)

Particulars	2015-16	2016-17	Apr 17-Feb 18
Crude oil (Indian Basket)	46.17	47.56	55.74
Petrol	61.72	58.10	67.24
Diesel	55.02	56.59	67.43
Kerosene	55.71	56.81	66.76
LPG ($/MT)	394.71	393.31	487.42
FO ($/MT)	235.13	258.92	324.37
Naphtha ($/MT)	420.14	415.17	489.48
Exchange (Rs./$)	65.46	67.09	64.40

Customs & excise duty rates (w.e.f. 02.02.2018)

Product	Basic Customs duty #	Excise duty	GST rates
Petrol	2.50%	Rs 19.48/Ltr	**
Diesel	2.50%	Rs 15.33/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)	5.00%		18.00%
ATF	Nil	14% *	**
Crude Oil	Nil+Rs.50/ -MT as NCCD	Nil+ Cess@ 20% +Rs.50 /- MT NCCD	**

*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.*** 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)	33.78	35.64
Excise Duty	19.48	15.33
Dealer Commission (Average)	3.58	2.51
VAT (incl VAT on dealer commission)	15.35	9.25
Retail selling price (RSP) -Rounded	**72.19**	**62.73**
Particulars	**PDS SKO***	**Sub. Dom LPG***
Price before taxes and dealer/distributor commission	20.55	607.01
Dealer/distributor commission	2.02	49.17
GST (incl GST on dealer/distributor commission)	1.13	32.82
Retail Selling Price	**23.70**	**689.00**
Less: Cash Compensation on LPG to consumers under DBTL		195.91
Effective cost to consumer after subsidy		**493.09**

*Petrol and diesel at Delhi as per IOCL are as on 19th March, 2018. SKO at Mumbai is as on 16th March, 2018 and Sub. Dom LPG at Delhi is as on 1st March, 2018. RSP of subsidized domestic LPG rounded off.

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	0.42	200	0.53	250
Domestic LPG	9.22	1130	7.32	900
Total	-	**1,330**	-	**1,150**

Note: The above calculations are based on RTP for March 2018.

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

Under-recoveries/subsidy & burden sharing

Product	2015-16	2016-17	Apr-Dec'2017
Per unit under-recovery/subsidy (Rs./litre/Cylinder)			
PDS SKO	13.47	11.39	9.46
Sub. Dom LPG	150.82*	108.78	157.61
Total under-recoveries including DBTL Subsidy (Rs. Crores)			
PDS SKO	11,496	7,595	3,275
Sub. Dom LPG	16,074#	12,133	14,172
Total	**27,570**	**19,728**	**17,446**

Burden sharing (Rs. Crores)

Particulars	2015-16	2016-17	Apr-Dec'2017
Government	26,301	19,728	17446**
Upstream	1,251	0	0
OMCs	18	0	0

* Average of DBTL subsidy and under-recovery towards non-DBTL domestic LPG;
# Includes under recovery towards non-DBTL domestic LPG (2015-16: Rs.18 Cr);
** Pending sanction for 2017-18 (April-Dec 2017) -Sub.Dom LPG Rs.5,485 Cr; PDS-SKO Rs. 1,209 Cr.

Sales & profit of petroleum sector (Rs. Crores)

Apr-Dec'2017	Turnover	PAT
Upstream/midstream Companies (PSU)	106,271	19,429
Downstream Companies (PSU)	740,367	25,983
Standalone Refineries (PSU)	74,494	3,862
Private-RIL	218,108	24,915

Borrowings of OMCs (Rs. Crores)

Company	As on Mar`16	As on Mar`17	Apr-Dec'2017
IOCL	52,469	54,820	31,938
BPCL	15,976	23,159	15,865
HPCL	21,337	21,250	12,124

Petroleum sector contribution to Central/State Govt.

Particulars	2015-16	2016-17	Apr-Dec'2017
Central Government	2,58,443	3,34,534	2,31,072
% to total revenue receipts	21%	24%	-
State Governments	1,60,209	1,89,770	1,50,996
% to total revenue receipts	8%	8%	-
Total (Rs. Crores)	**4,18,652**	**5,24,304**	**3,82,067**

Subsidy as a % of GDP (at current prices)

Particulars	2014-15	2015-16	2016-17
Petroleum subsidy	0.62	0.25	0.18

Note: GDP figure for 2014-15 and 2015-16 are Revised Estimates and 2016-17 are Provisional Estimates

24. Capital expenditure of PSU oil companies

(Rs in crores)

Company	2013-14	2014-15	2015-16 (P)	2016-17 (P)	2017-18	
					Target*	Actual# (Apr-Feb) (P)
ONGC Ltd	32,470	29,997	29,502	28,010	29,968	67,707
ONGC Videsh Ltd (OVL)	35,357	7,172	6,783	18,360	7,088	4,631
Oil India Ltd (OIL)	9,351	3,774	3,550	10,514	9,252	7,923
GAIL (India) Ltd	4,070	1,632	1,880	2,180	2,053	2,650
Indian Oil Corp. Ltd. (IOCL)	16,661	14,314	14,368	21,918	20,162	16,015
Hindustan Petroleum Corp. Ltd (HPCL)	2,642	2,670	5,459	5,861	7,110	5,242
Bharat Petroleum Corp. Ltd (BPCL)	4,374	6,875	10,926	16,810	7,100	5,780
Mangalore Refinery & Petrochem Ltd (MRPL)	1,449	2,747	1,550	614	1,138	726
Chennai Petroleum Corp. Ltd (CPCL)	229	466	1,318	1,293	845	786
Numaligarh Refinery Ltd (NRL)	372	103	237	500	1,261	319
Balmer Lawrie Co. Ltd (BL)	120	80	38	73	50	71
Total	**1,07,095**	**69,830**	**75,611**	**106,133**	**86,027**	**111,850**

* Targets are for full financial year 2017-18.

#(P) Provisional & includes expenditure on investment in JV/subsidiaries.

25. 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
ATF	1	1.288	8.10
Light Diesel Oil (LDO)	1	1.172	7.37
Furnace Oil (FO)	1	1.071	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	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	1,314 SCM	Power generation from 1 MMSCMD of gas	220 MW