

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

Abridged Ready Reckoner November, 2021

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas)



As on 17.12.2021

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

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

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

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Highlights for the month

- The consumption of petroleum products during April-November 2021 with a volume of 129.98 MMT reported a growth of 5.7% compared to the volume of 123 MMT during the same period of the previous year. Except SKO & petcoke all other petroleum products reported a growth in consumption during April-November 2021 compared to the same period of the previous year. The consumption of petroleum products during November 2021 recorded a de-growth of 11.4% compared to the same period of the previous year.
- Indigenous crude oil and condensate production during November 2021 was lower by 2.2 % than that of November 2020 as compared to a de-growth of 2.2 % during October 2021. OIL registered a de-growth of 0.7 % and ONGC registered a degrowth of 3.0 % during November 2021 as compared to November 2020. PSC registered de-growth of 0.7 % during November 2021 as compared to November 2020. De-growth of 2.7 % was registered in the total crude oil and condensate production during April- November 2021 over the corresponding period of the previous year.
- Total Consumption of Natural Gas (including internal consumption) for the month of November 2021 was 5024 MMSCM which was 1% lower than the corresponding month of the previous year. The cumulative consumption of 43814 MMSCM for the current year till November 2021 was higher by 8.1% compared with the corresponding period of the previous year.
- Crude oil processed during November 2021 was 21.5 MMT, which was 3.4 % higher than November 2020 as compared to a
 growth of 14.0 % during October 2021. Growth of 11.8 % was registered in the total crude oil processing during AprilNovember 2021 over the corresponding period of the previous year.
- Production of petroleum products saw a growth of 4.3 % during November 2021 over November 2020 as compared to a growth of 14.4 % during October 2021. Growth of 10.6 % was registered in the total POL production during April- November 2021 over the corresponding period of the previous year.
- Ethanol blending with Petrol was 7.1% during November 2021 and cumulative during December 2020- November 2021 was 8.1%.

- Gross production of natural gas for the month of November 2021 was 2869 MMSCM which was higher by 23.1% compared
 with the corresponding month of the previous year. The cumulative gross production of natural gas of 22777 MMSCM for
 the current financial year till November, 2021 was higher by 21.8% compared with the corresponding period of the previous
 year.
- LNG import for the month of November, 2021(P) was 2487 MMSCM which was 11.6 % lower than the corresponding month of the previous year. The cumulative import of 21854 MMSCM for the current year till November, 2021 was lower by 2.6% compared with the corresponding period of the previous year.
- Crude oil imports increased by 0.5% and 11.4% during November 2021 and April-November 2021 respectively as compared
 to the corresponding period of the previous year. Decrease in POL products imports during April-November 2021 was due to
 decrease in imports of petcoke, high speed diesel (HSD), naphtha and superior kerosene oil (SKO).
- POL products imports decreased by 26.6% and 7.7% during November 2021 and April-November 2021 respectively as compared to the corresponding period of the previous year. Decrease in POL products imports during April-November 2021 was due to decrease in imports of petcoke, high speed diesel (HSD), naphtha and superior kerosene oil (SKO).
- Exports of POL products increased by 26.8% and 7.1% during November 2021 and April-November 2021 respectively as compared to the corresponding period of the previous year. Increase in POL products exports during April-November 2021 (P) was due to increase in exports of all products except LOBS/Lubes and petcoke.
- The price of Brent Crude averaged \$81.44/bbl during November,2021 as against \$83.66/bbl during October 2021 and \$42.66/bbl during November 2020. The Indian basket crude price averaged \$80.64/bbl during November 2021 as against \$82.11/bbl during October 2021 and \$43.34 /bbl during November 2020.



	1. Selected indicators of the Indian economy												
	Economic indicators	Unit/ Base	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22					
1	Population (Census 2011)	Billion	1.2	-	-	-	1	-					
	GDP	Growth %	8.3	6.8	6.5	4.0	-7.3	13.7					
	at constant (2011-12 Prices)			3rd RE	2nd RE	1st RE	PE	E (H1, 2021-22)					
		MMT	275.1	285.0	285.2	297.5	308.7	150.5					
3	Agricultural Production						4th AE	1st AE (Kharif)					
	(Food grains)	Growth %	9.4	3.6	0.1	4.3	3.7	-					
1	Gross Fiscal Deficit	%	3.5	3.5	3.4	4.6	9.5	6.8					
4	(as percent of GDP)						RE	BE					

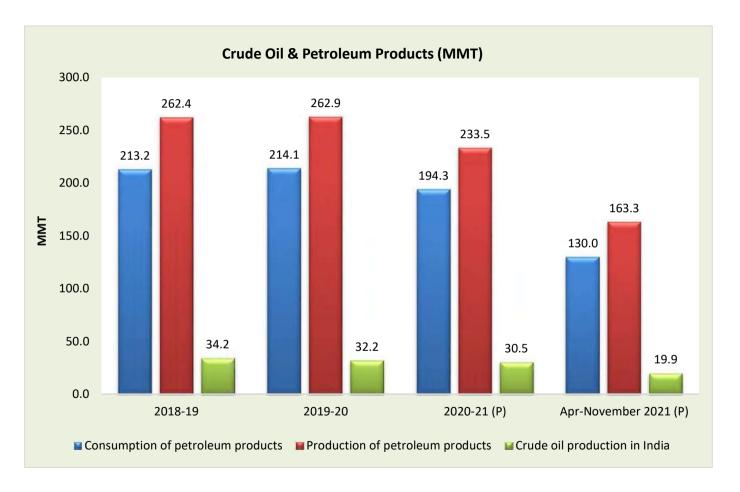
	Economic indicators	Unit/ Base	2019-20	2020-21	November		April-November	
				(P)	2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)
5	Index of Industrial Production (Base: 2011-12)	Growth %	-0.8	-8.4	4.5*	3.2* QE	-17.3#	20.0#
6	Imports^	\$ Billion	474.7	394.4	33.8	52.9	219.8	384.3
7	Exports^	\$ Billion	313.4	291.8	23.6	30.0	174.2	263.6
8	Trade Balance	\$ Billion	-161.3	-102.6	-10.2	-22.9	-45.7	-120.8
9	Foreign Exchange Reserves [@]	\$ Billion	475.6	579.3	574.8	637.6	-	-

IIP is for the month of *October and *April-October; *2019-20-as on March 27, 2019, 2020-21-as on March 26, 2021, October 2020- as on October 30, 2020 and October 2021-as on October 24, 2021; Almports & Exports are for Merchandise; E: Estimates; PE: Provisional Estimates; AE-Advanced Estimates; RE-Revised Estimates; QE-Quick Estimates.

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

	2. Crude oil, LNG and petroleum products at a glance											
	Details	Unit/ Base	2019-20	2020-21	Nove	mber	April-No	vember				
				(P)	2020-21 (P)	2021-22 (P)	2020-21 (P)	2021-22 (P)				
1	Crude oil production in India#	MMT	32.2	30.5	2.5	2.4	20.4	19.9				
2	Consumption of petroleum products*	MMT	214.1	194.3	19.3	17.1	123.0	130.0				
3	Production of petroleum products	MMT	262.9	233.5	21.4	22.3	147.6	163.3				
4	Gross natural gas production	MMSCM	31,184	28,672	2,331	2,869	18,704	22,777				
5	Natural gas consumption	MMSCM	64,144	60,815	5,075	5,285	40,531	44,075				
6	Imports & exports:											
	Crude oil imports	MMT	227.0	196.5	18.3	18.4	122.9	136.9				
	crude on imports	\$ Billion	101.4	62.2	5.5	10.6	32.5	71.7				
	Petroleum products (POL)	MMT	43.8	43.2	4.8	3.5	28.8	26.6				
	imports*	\$ Billion	17.7	14.8	1.2	2.2	8.0	15.2				
	Gross petroleum imports	MMT	270.7	239.7	23.0	21.9	151.7	163.5				
	(Crude + POL)	\$ Billion	119.1	77.0	6.7	12.8	40.4	86.9				
	Petroleum products (POL)	MMT	65.7	56.8	4.1	5.2	37.4	40.1				
	export	\$ Billion	35.8	21.4	1.5	3.7	11.8	25.4				
	INC imports*	MMSCM	33,887	33,031	2,812	2,487	22,428	21,854				
	LNG imports*	\$ Billion	9.5	7.9	0.6	0.9	4.7	7.8				
7	Petroleum imports as percentage of India's gross imports (in value terms)	%	25.1	19.5	19.9	24.2	18.4	22.6				
8	Petroleum exports as percentage of India's gross exports (in value terms)	%	11.4	7.3	6.3	12.3	6.8	9.7				
9	Import dependency of crude (on consumption basis)	%	85.0	84.4	86.5	85.1	83.6	84.9				

#Includes condensate; *Private direct imports are prorated for the period Oct-2021 to Nov-2021; RIL data prorated for Oct-2021





Crude Oil, Refining & Production

3. Indigenous crude oil production (Million Metric Tonnes)												
Details	2019-20	2020-21		November		A	pril-Novemb	oer				
			2020-21	2021-22 Target*	2021-22 (P)	2020-21	2021-22 Target*	2021-22 (P)				
ONGC	19.2	19.1	1.6	1.7	1.5	12.7	13.5	12.3				
Oil India Limited (OIL)	3.1	2.9	0.2	0.3	0.2	2.0	2.1	2.0				
Private / Joint Ventures (JVs)	8.2	7.1	0.6	0.7	0.6	4.8	5.2	4.7				
Total Crude Oil	30.5	29.1	2.4	2.6	2.3	19.5	20.8	19.0				
ONGC condensate	1.4	1.1	0.1		0.1	0.8		0.6				
PSC condensate	0.3	0.3	0.02		0.03	0.17		0.21				
Total condensate	1.6	1.4	0.1		0.1	0.9		0.8				
Total (Crude + Condensate) (MMT)	32.2	30.5	2.5	2.6	2.4	20.4	20.8	19.9				
Total (Crude + Condensate) (Million Bbl/Day)	0.64	0.61	0.61		0.59	0.61		0.60				

^{*}Provisional targets inclusive of condensate.

4. Domestic oil & gas production vis-à-vis overseas production											
Details 2019-20 2020-21 November April-Nove											
			2020-21	2021-22 (P)	2020-21	2021-22 (P)					
Total domestic production (MMTOE)	63.4	59.2	4.8	5.3	39.1	42.6					
Overseas production (MMTOE)	24.5	21.9	1.8	1.8	14.6	14.7					
Overseas production as percentage of domestic production 38.7% 37.0% 37.4% 33.4% 37.4% 34.4%											

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

	5. High Sulphur (HS) & Low Sulphur (LS) crude oil processing (MMT)											
	Details	2019-20	2020-21	Nove	ember	April-November						
				2020-21	2021-22 (P)	2020-21	2021-22 (P)					
1	High Sulphur crude	192.4	161.4	15.3	16.4	102.0	117.7					
2	Low Sulphur crude	62.0	60.3	5.5	5.0	37.3	38.0					
Total cru	ude processed (MMT)	254.4	221.8	20.8	21.5	139.3	155.7					
Total cru	ude processed (Million Bbl/Day)	5.09	4.45	5.08	5.25	4.19	4.68					
Percenta	age share of HS crude in total crude oil processing	75.6%	72.8%	73.7%	76.5%	73.2%	75.6%					

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

	7. Self-sufficiency in petroleum products (Million Metric Tonnes)											
	Particulars	2019-20	2020-21	Nove	mber	April-No	ovember					
	Faiticulais			2020-21	2021-22 (P)	2020-21	2021-22 (P)					
1	Indigenous crude oil processing	29.3	28.0	2.4	2.4	18.6	18.0					
2	Products from indigenous crude (93.3% of crude oil processed)	27.3	26.1	2.2	2.2	17.3	16.8					
3	Products from fractionators (Including LPG and Gas)	4.8	4.2	0.4	0.3	2.8	2.8					
4	Total production from indigenous crude & condensate (2 + 3)		30.3	2.6	2.5	20.2	19.6					
5	Total domestic consumption	214.1	194.3	19.3	17.1	123.0	130.0					
% Self	f-sufficiency (4 / 5)	15.0%	15.6%	13.5%	14.9%	16.4%	15.1%					

	8. Refineries: Installed capacity and crude oil processing (MMTPA / MMT)												
Company	Refinery	Installed		Crude oil processing (MMT)									
		capacity	2019-20	2020-21		November 2021 22 2021 22			April-November				
		(1.11.2021)			2020-21	2021-22	2021-22	2020-21	2021-22	2021-22			
		MMTPA				(Target)	(P)		(Target)	(P)			
	Barauni (1964)	6.0	6.5	5.5	0.6	0.6	0.5	3.2	3.9	3.3			
	Koyali (1965)	13.7	13.1	11.6	1.1	1.0	1.1	7.4	9.3	8.4			
	Haldia (1975)	8.0	6.5	6.8	0.7	0.6	0.7	4.0	5.5	5.4			
	Mathura (1982)	8.0	8.9	8.9	0.8	0.6	0.9	5.5	5.9	5.9			
IOCL	Panipat (1998)	15.0	15.0	13.2	1.4	1.3	1.3	8.3	10.6	9.9			
	Guwahati (1962)	1.0	0.9	0.8	0.08	0.1	0.1	0.51	0.5	0.4			
	Digboi (1901)	0.65	0.7	0.6	0.06	0.06	0.06	0.4	0.4	0.5			
	Bongaigaon(1979)	2.35	2.0	2.5	0.2	0.2	0.2	1.6	1.6	1.8			
	Paradip (2016)	15.0	15.8	12.5	1.3	1.3	1.1	7.8	8.5	8.0			
	IOCL-TOTAL	69.7	69.4	62.4	6.2	5.7	6.0	38.8	46.3	43.5			
CPCL	Manali (1969)	10.5	10.2	8.2	0.7	0.9	0.8	4.8	6.4	5.3			
CPCL	CBR (1993)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	CPCL-TOTAL	11.5	10.2	8.2	0.7	0.9	0.8	4.8	6.4	5.3			
BPCL	Mumbai (1955)	12.0	15.0	12.9	1.2	1.3	1.3	7.8	9.5	9.3			
Di CL	Kochi (1966)	15.5	16.5	13.3	1.3	1.3	1.4	7.6	10.7	9.7			
BORL	Bina (2011)	7.8	7.9	6.2	0.6	0.6	0.7	3.7	4.7	4.7			
	BPCL-TOTAL	35.3	39.4	32.4	3.2	3.1	3.4	19.0	24.9	23.7			
NRL	Numaligarh (1999)	3.0	2.4	2.7	0.2	0.2	0.2	1.7	1.8	1.8			

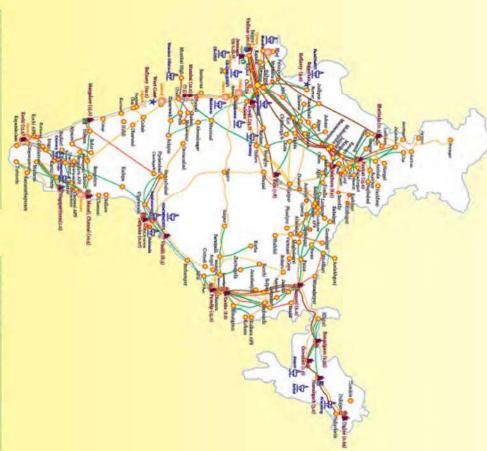
Company	Refinery	Installed			Cruc	le oil proce	essing (MM	IT)			
		capacity	2019-20	2020-21		November			Apr-November		
		(1.11.2021) (MMTPA)			2020-21	2021-22	2021-22	2020-21	2021-22	2021-22	
		(WIWITI A)				(Target)	(P)		(Target)	(P)	
ONGC	Tatipaka (2001)	0.066	0.087	0.081	0.007	0.005	0.007	0.051	0.041	0.048	
MRPL	Mangalore (1996)	15.0	14.0	11.5	1.0	1.4	1.5	6.1	9.4	9.1	
	ONGC-TOTAL	15.1	14.0	11.6	1.0	1.4	1.5	6.1	9.5	9.1	
HPCL	Mumbai (1954)	7.5	8.1	7.4	0.6	0.7	0.5	4.8	4.3	2.6	
	Visakh (1957)	8.3	9.1	9.1	0.8	0.8	0.8	5.9	6.1	5.2	
HMEL	Bathinda (2012)	11.3	12.2	10.1	1.0	0.9	1.1	7.2	7.4	8.7	
	HPCL- TOTAL	27.1	29.4	26.5	2.5	2.4	2.4	17.9	17.7	16.5	
RIL	Jamnagar (DTA) (1999)	33.0	33.0	34.1	2.9	2.9	3.0	22.7	22.7	22.9	
	Jamnagar (SEZ) (2008)	35.2	35.9	26.8	2.6	2.6	2.5	17.2	17.2	19.4	
NEL	Vadinar (2006)	20.0	20.6	17.1	1.5	1.5	1.7	11.0	11.0	13.5	
All India (MMT)	249.9	254.4	221.8	20.8	20.8	21.5	139.3	157.4	155.7	
All India (dia (Million Bbl/Day) 5.02 5.09 4.45 5.08 5.25 4.19					4.68					

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

	9. Major crude oil and product pipeline network (as on 01.12.2021)												
Det	ails	ONGC	OIL	Cairn	HMEL	IOCL	BPCL	HPCL	Others*	Total			
Crude Oil	Length (KM)	1,283	1,193	688	1,017	5,301	937			10,419			
	Cap (MMTPA)	60.6	9.0	10.7	11.3	48.6	7.8			147.9			
Products	Length (KM)		654			9,400	2,596	3,775	2,395	18,820			
	Cap (MMTPA)		1.7			47.5	23.0	34.1	9.4	115.7			

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

OIL & GAS MAP OF INDIA



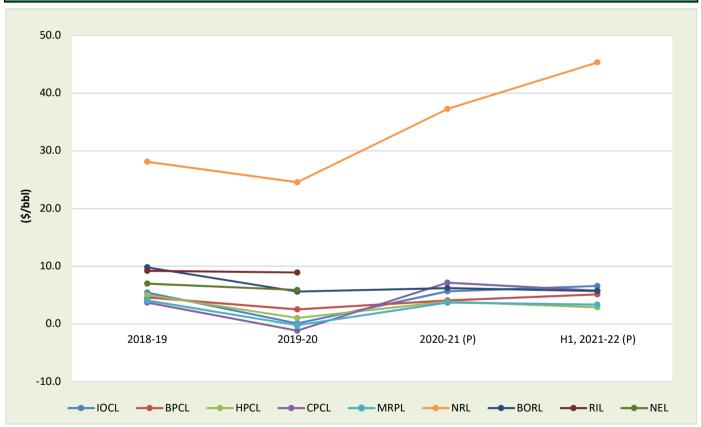




	10. Gross Refinin	g Margins (GRM) of r	efineries (\$/bbl)	
Company	2018-19	2019-20	2020-21 (P)	H1, 2021-22 (P)
IOCL	5.41	0.08	5.64	6.57
BPCL	4.58	2.50	4.06	5.11
HPCL	5.01	1.02	3.86	2.87
CPCL	3.70	-1.18	7.14	5.75
MRPL	4.06	-0.23	3.71	3.33
NRL	28.11	24.55	37.23	45.31
BORL	9.80	5.60	6.20	5.70
RIL	9.20	8.90	*	*
NEL	6.97	5.88	*	*

^{*}Not available







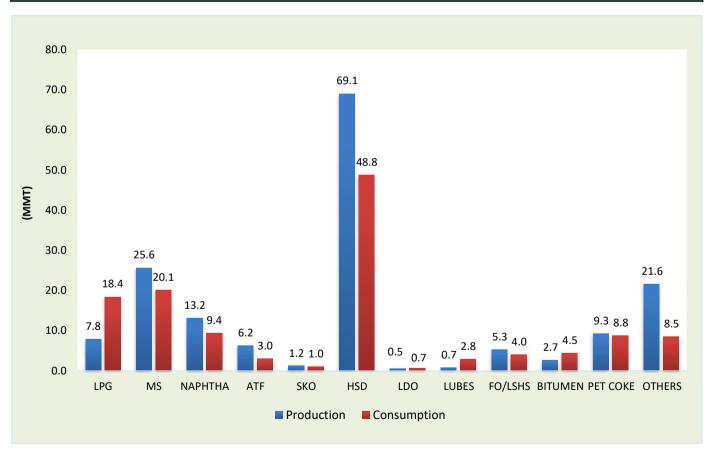
PART-C

Consumption

11. Production and consumption of petroleum products (Million Metric Tonnes)												
Duradicata	201	9-20	202	0-21	Novemb	November 2020		November 2021 (P)		v 2020	Apr-Nov 2021 (P)	
Products	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons	Prod	Cons
LPG	12.8	26.3	12.1	27.6	1.1	2.4	1.1	2.3	7.7	18.0	7.8	18.4
MS	38.6	30.0	35.8	28.0	3.3	2.7	3.7	2.6	22.4	17.4	25.6	20.1
NAPHTHA	20.6	14.3	19.4	14.1	1.8	1.4	1.6	1.1	12.3	9.2	13.2	9.4
ATF	15.2	8.0	7.1	3.7	0.7	0.4	1.1	0.5	3.9	1.9	6.2	3.0
SKO	3.2	2.4	2.4	1.8	0.2	0.2	0.2	0.1	1.6	1.2	1.2	1.0
HSD	111.1	82.6	100.4	72.7	9.5	7.0	9.5	6.5	63.3	44.9	69.1	48.8
LDO	0.6	0.6	0.7	0.9	0.06	0.07	0.08	0.07	0.4	0.5	0.5	0.7
LUBES	0.9	3.8	1.1	4.1	0.1	0.4	0.1	0.4	0.7	2.5	0.7	2.8
FO/LSHS	9.3	6.3	7.4	5.6	0.5	0.5	0.8	0.5	4.8	3.6	5.3	4.0
BITUMEN	4.9	6.7	4.9	7.5	0.5	0.7	0.4	0.6	2.6	4.0	2.7	4.5
PET COKE	14.6	21.7	12.0	15.6	1.1	1.1	1.3	1.0	7.7	11.3	9.3	8.8
OTHERS	31.0	11.4	30.2	12.8	2.6	2.5	2.5	1.4	20.1	8.5	21.6	8.5
ALL INDIA	262.9	214.1	233.5	194.3	21.4	19.3	22.3	17.1	147.6	123.0	163.3	130.0
Growth (%)	0.2%	0.4%	-11.2%	-9.3%	-4.8%	4.5%	4.3%	-11.4%	-14.9%	-13.6%	10.6%	5.7%

Note: Prod - Production; Cons - Consumption

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



12. Kerosene allocation vs upliftment (Kilo Litres)								
Product	201	8-19	201	9-20	202	0-21	2021-22 (P)*	
	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment	Allocation	Upliftment
PDS Kerosene	44,32,994 41,52,112 31,21,328 27,93,217 23,15,008 20,38,790 13,38,876 11,							

^{*} For 2022-21 allocation is for Apr-Dec 2021 and upliftment is for Apr-Nov 2021.

13. Ethanol blending programme									
Ethanol Supply Year *									
Particulars	2017-18	2018-19	2019-20	2020	-21 (P)				
	2017-18 2018-19 2019-20 Nov-21 D								
Ethanol received by PSU OMCs under	150.5	188.6	173.0	24.2	296.1				
EBP Program (in Cr. Litrs)	130.3	100.0	1/3.0	24.2	296.1				
Average Percentage of Blending Sales	4.2%	5.0%	5.0%	7.1%	8.1%				
(EBP%)	7.2/0	5.0%	5.070	7.170	0.170				

^{*}Ethanol Supply Year: Ethanol supplies take place between 1st December of the present year to 30th November of the following year.

Note: With effect from 01.04.2019, EBP Programme has been extended to whole of India except UTs of Andaman and Nicobar Islands and Lakshadweep.

14. Industry marketing infrastructure (as on 01.12.2021) (Provisional)										
Particulars	IOCL	BPCL	HPCL	RIL/RBML/RSIL	NEL	SHELL	Others	Total		
POL Terminal/ Depots (Nos.)\$	117	81	81	18	3		6	306		
Aviation Fuel Stations (Nos.) [@]	124	61	47	30			1	263		
Retail Outlets (total) (Nos.),	33,318	19,529	19,464	1,435	6,385	299	28	80,458		
out of which Rural ROs	10,499	4,606	4,789	130	2,047	71	3	22,145		
SKO/LDO agencies (Nos.)	3,871	927	1,638					6,436		
LPG Distributors (total) (Nos.) (PSUs only)	12,782	6,187	6,212					25,181		
LPG Bottling plants (Nos.) (PSUs only)#	92	53	51				3	199		
LPG Bottling capacity (TMTPA) (PSUs only)&	10,304	4,890	5,912				203	21,309		
LPG active domestic consumers (Nos. crore) (PSUs only)	14.2	7.8	8.2					30.2		

^{\$(}Others=4 MRPL & 2 NRL); *(Others=ShellMRPL); ^(Others=28 MRPL); #(Others=NRL-1, OIL-1, CPCL-1); *(Others=NRL-60, OIL-23, CPCL-120); RBML- Reliance BP Mobility Limited; RSIL-RBML Solutions India Ltd.



PART-D

LPG

15. LPG consumption (Thousand Metric Tonne)												
LPG category	2019-20	2020-21	N	lovember		April-November						
			2020-21	2021-22 (P)	Gr (%)	2020-21	2021-22 (P)	Gr (%)				
1. PSU Sales :												
LPG-Packed Domestic	23,076.0	25,128.1	2,096.0	2,102.5	0.3	16,676.3	16,604.1	-0.4				
LPG-Packed Non-Domestic	2,614.4	1,886.0	201.5	194.8	-3.4	1,035.4	1,427.5	37.9				
LPG-Bulk	263.5	361.9	33.1	27.6	-16.5	209.4	242.6	15.9				
Auto LPG	171.9	118.4	12.0	10.9	-9.5	67.8	80.1	18.1				
Sub-Total (PSU Sales)	26,125.7	27,494.3	2,342.6	2,335.8	-0.3	17,988.9	18,354.3	2.0				
2. Direct Private Imports*	204.0	64.2	9.2	7.4	-19.1	37.9	58.8	55.1				
Total (1+2)	26,329.8	27,558.4	2,351.8	2,343.2	-0.4	18,026.8	18,413.1	2.1				

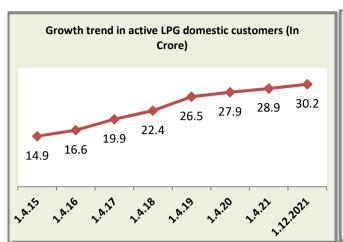
^{*}Oct -Nov 2021 DGCIS data are prorated

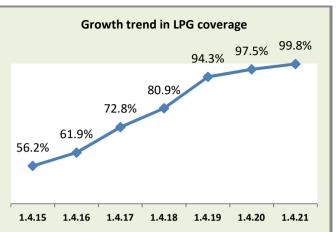
	16. LPG marketing at a glance													
Particulars	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1.12.21
(As on 1st of April)														(P)
LPG Active Domestic	(Lakh)						1486	1663	1988	2243	2654	2787	2895	3021
Customers	Growth							11.9%	19.6%	12.8%	18.3%	5.0%	3.9%	5.4%
LPG Coverage (Estimated)	(Percent)						56.2	61.9	72.8	80.9	94.3	97.5	99.8	-
Li d coverage (Estimatea)	Growth							10.1%	17.6%	11.1%	16.5%	3.4%	2.3%	-
PMUY Beneficiaries	(Lakh)								200	356	719	802	800.4	880.0
PIVIOT Beneficiaries	Growth									77.7%	101.9%	11.5%	-0.2%	9.8%
LPG Distributors	(No.)	9686	10541	11489	12610	13896	15930	17916	18786	20146	23737	24670	25083	25181
Li d Distributors	Growth	3.4%	8.8%	9.0%	9.8%	10.2%	14.6%	12.5%	4.9%	7.2%	17.8%	3.9%	1.7%	1.2%
Auto LPG Dispensing	(No.)	536	604	652	667	678	681	676	675	672	661	657	651	634
Stations	Growth	19.9%	12.7%	7.9%	2.3%	1.6%	0.4%	-0.7%	-0.1%	-0.4%	-1.6%	-0.6%	-0.9%	-3.5%
Bottling Plants	(No.)	182	183	184	185	187	187	188	189	190	192	196	200	199
Bottillig Flailts	Growth	0.0%	0.5%	0.5%	0.5%	1.1%	0.0%	0.5%	0.5%	0.5%	1.1%	2.1%	2.0%	0.5%

Source: PSU OMCs (IOCL, BPCL and HPCL)

^{1.}Growth rates as on 1.12.2021 are w.r.t. figures as on 1.12.2020. All growth rates as on 1 April of any year are w.r.t. figures as on 1 April of previous year.

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

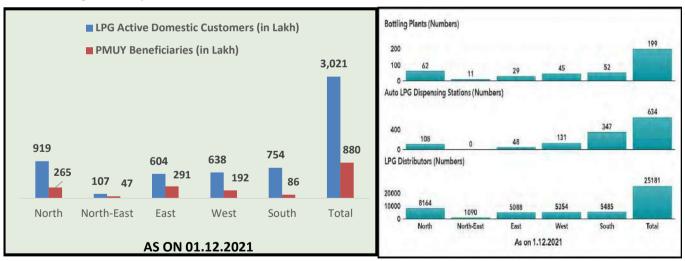






17-Region-wise data on LPG marketing (As on 01.12.2021)									
ParticularsNorthNorth-EastEastWestSouthTotal									
LPG Active Domestic Customers (in Lakh)	919.0	106.6	603.9	637.6	753.9	3021.0			
PMUY Beneficiaries (in Lakh)	264.9	46.6	290.6	191.5	86.3	880.0			
LPG Distributors (Numbers)	8164	1090	5088	5354	5485	25181.0			
Auto LPG Dispensing Stations (Numbers)	108	0	48	131	347	634.0			
Bottling Plants* (Numbers)	62	11	29	45	52	199.0			

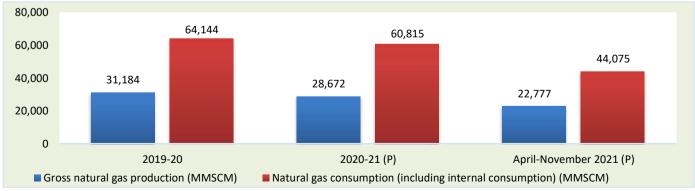
^{*}Includes Numaligarh BP, Duliajan BP and CPCL BP.





18. Natural gas at a glance										
								(MMSCM)		
Details	2019-20	2019-20 2020-21 November April-November			per					
		(P)	2020-21	2021-22	2021-22	2020-21	2021-22	2021-22 (P)		
			(P)	(Target)	(P)	(P)	(Target)			
(a) Gross production	31,184	28,672	2,331	3,291	2,869	18,704	24,732	22,777		
- ONGC	23,746	21,872	1,824	1,946	1,727	14,687	15,480	13,785		
- Oil India Limited (OIL)	2,668	2,480	204	242	249	1,668	1,972	1,949		
- Private / Joint Ventures (JVs)	4,770	4,321	304	1,102	893	2,349	7,281	7,043		
(b) Net production (excluding flare gas and loss)	30,257	27,784	2,263		2,798	18,103		22,222		
(c) LNG import [#]	33,887	33,031	2,812		2,487	22,428		21,854		
(d) Total consumption including internal consumption (b+c)	64,144	60,815	5,075		5,285	40,531		44,075		
(e) Total consumption (in BCM)	64.1	60.8	5.1		5.3	40.5		44.1		
(f) Import dependency based on consumption (%), {c/d*100}	52.8	54.3	55.4		47.1	55.3		49.6		

#Jul 2020-Nov 2021 DGCIS data prorated



19. Coal Bed Methane (CBM) gas development in India									
Prognosticated CBM resources		91.8	TCF						
Established CBM resources	10.4	TCF							
CBM Resources (33 Blocks)		62.8	TCF						
Total available coal bearing areas (India)		32760	Sq. KM						
Total available coal bearing areas with MoPNG/DGH		21659	Sq. KM						
Area awarded		16613	Sq. KM						
Blocks awarded (ST CBM Block awarded twice in CBM		32	Nos.						
Exploration initiated (Area considered if any borehole	10669.55	Sq. KM							
Production of CBM gas	459.62	MMSCM							
Production of CBM gas	56.45	MMSCM							

	20. Common Carrier Natural Gas pipeline network as on 30.06.2021													
Nature of pip	oeline	GAIL	GSPL	PIL	IOCL	AGCL	RGPL	GGL	DFPCL	ONGC	GIGL	GITL	Others*	Total
Operational	Length	8,242	2,265	1,459	132	105	312	73	42	24				12,653
Operational	Capacity	167.2	43.0	85.0	20.0	2.4	3.5	5.1	0.7	6.0				337.3
Partially	Length	4,407			166						441	365		5,379
commissioned#	Capacity													-
Total operationa	l length	12,649	2,265	1,459	298	105	312	73	42	24	441	365	0	18,032
Under	Length	6,185			1,265						2,239	1,446	3,550	14,685
construction	Capacity	23.2	·		·	·				·			149.0	•
Total leng	th	18,834	2,265	1,459	1,563	105	312	73	42	24	2,680	1,811	3,550	32,717

Source: PNGRB; Length in KMs; Authorized Capacity in MMSCMD; *Others-APGDC, HEPL, IGGL, IMC, Consortium of H-Energy

	21. Existing LNG terminals									
Location	Promoters	% Capacity utilisation (Apr-Nov 2021)								
Dahej	Petronet LNG Ltd (PLL)	17.5 MMTPA	91.4							
Hazira	Shell Energy India Pvt. Ltd.	5.2 MMTPA	70.1							
Dabhol	Konkan LNG Limited	*5 MMTPA	52.3							
Kochi	Petronet LNG Ltd (PLL)	5 MMTPA	22.1							
Ennore	Indian Oil LNG Pvt Ltd	5 MMTPA	14.0							
Mundra	GSPC LNG Limited	5 MMTPA	20.5							
	Total Capacity	42.7 MMTPA								

^{*} To increase to 5 MMTPA with breakwater. Only HP stream of capacity of 2.9 MMTPA is commissioned 26

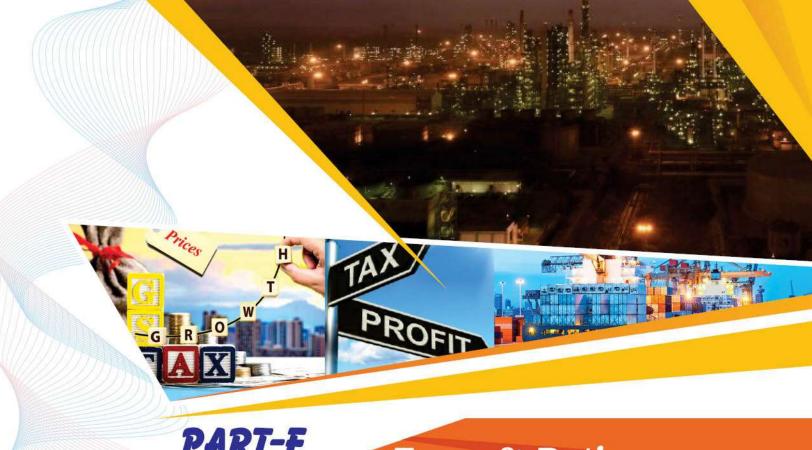
State/UT PNG connections				
(State/UTs are clubbed based on the GAs authorised by PNGRB)	CNG Stations	Domestic	Commercial	Industrial
Andhra Pradesh	97	220,626	325	22
Andhra Pradesh, Karnataka & Tamil Nadu	1	0	0	1
Assam	1	38,637	1,235	413
Bihar	21	40,280	15	1
Chandigarh (UT), Haryana, Punjab & Himachal Pradesh	21	21,631	59	13
Dadra & Nagar Haveli (UT)	7	7,290	49	45
Daman & Diu (UT)	4	4,886	32	33
Daman and Diu & Gujarat	11	190	1	0
Goa	8	9,432	7	18
Gujarat	840	2,549,002	20,732	5,616
Haryana	194	210,640	620	1,111
Haryana & Himachal Pradesh	8	0	0	0
Haryana & Punjab	9	0	0	0
Himachal Pradesh	1	1,346	0	0
harkhand	36	59,284	0	0
Karnataka	99	301,684	458	229
Kerala Cerala	38	16,815	15	12
Kerala & Puducherry	2	0	0	0
Madhya Pradesh	120	114,090	198	308
Madhya Pradesh and Rajasthan	13	0	0	0
Madhya Pradesh and Uttar Pradesh	7	0	0	0
Maharashtra	490	2,148,081	4,573	466
Maharashtra & Gujarat	43	66,964	0	0
National Capital Territory of Delhi (UT)	438	1,125,675	2,861	1,668
Odisha	25	40,417	0	0
Puducherry & Tamil Nadu	3	0	0	0
Punjab	107	17,310	100	87
Rajasthan	110	80,696	19	108
Famil Nadu	63	0	0	0
Felangana	107	154,243	41	59
Tripura	18	51,539	501	62
Jttar Pradesh	509	1,020,703	1,676	2,012
Jttar Pradesh & Rajasthan	31	18,735	2	341
Jttar Pradesh and Uttrakhand	10	0	0	0
Jttrakhand	17	53,465	37	55
West Bengal	23	0	0	0
Total	3,532	8,373,661	33,556	12,680

Source: PNGRB

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

23. Domestic natural gas price and gas price ceiling (GCV basis)					
Period	Domestic Natural Gas price in US\$/MMBTU	Gas price ceiling in US\$/MMBTU			
November 2014 - March 2015	5.05	-			
April 2015 - September 2015	4.66	-			
October 2015 - March 2016	3.82	-			
April 2016 - September 2016	3.06	6.61			
October 2016 - March 2017	2.5	5.3			
April 2017 - September 2017	2.48	5.56			
October 2017 - March 2018	2.89	6.3			
April 2018 - September 2018	3.06	6.78			
October 2018 - March 2019	3.36	7.67			
April 2019 - September 2019	3.69	9.32			
October 2019 - March 2020	3.23	8.43			
April 2020 - September 2020	2.39	5.61			
October 2020 - March 2021	1.79	4.06			
April 2021 - September 2021	1.79	3.62			
October 2021 - March 2022	2.9	6.13			

24. CNG/PNG prices					
City	CNG (Rs/Kg)	PNG (Rs/SCM)	Source		
Delhi	53.04	35.11	IGL website		
Mumbai	61.50	33.93	MGL website		



PART-F

Taxes & Duties on Petroleum Products

25. Information on Prices, Taxes and Under-recoveries/Subsidies					
International FOB prices/ Exchange rates (\$/bbl)			Price buildup of petroleum products	(Rs.,	
Particulars	2019-20	2020-21	November 2021	Particulars	
Crude oil (Indian Basket)	60.47	44.82	80.64	Price charged to dealers (excluding Excise Duty and VAT)	
Petrol	66.94	47.68	92.18	Excise Duty	
Diesel	71.78	47.86	89.34	Dealers' Commission (Average)	
Kerosene	70.56	43.60	87.05	VAT (incl VAT on dealers' commission)	
LPG (\$/MT)	453.75	415.17	846.00	Retail Selling Price	
FO (\$/MT)	321.19	259.30	437.97		
Naphtha (\$/MT)	471.08	378.93	732.04	Particulars	Р
Exchange (Rs./\$)	70.88	74.20	74.50	Particulars	"
Custo	ms, excise duty	& GST rates		Price before taxes and dealers'/distributors' commission	
Product	Basic customs	Excise duty	GST rates	Dealers'/distributors' commission	
	duty #			GST (incl GST on dealers'/distributors' commission)	
Petrol	2.50%	Rs 27.90/Ltr^	**	Retail Selling Price	
Diesel	2.50%	Rs 21.80/Ltr^	**	*Petrol and Diesel at Delhi as per IOCL are as	on 2
PDS SKO	Nil		5.00%	SKO at Mumbai as on 1st December 2021 and	
Non-PDS SKO	5.00%		18.00%	Delhi as on 1st December 2021.	<i>-</i>
Domestic LPG	Nil***	Not	5.00%	Delili as oli 1st December 2021.	
Non Domestic LPG	5.00%	Applicable	18.00%		
Furnace Oil (Non-Fert)	5.00%		18.00%		
Naphtha (Non-Fert)	2.5%^		18.00%		
ATF	5.00%	11% *	**		
	Rs.1/MT+	Rs.1/MT+			
Crude Oil	Rs.50/-MT as	Cess@20% +	**		
	NCCD	Rs.50 /-MT NCCD			

^{*2%} for scheduled commuter airlines from regional connectivity scheme airports ** GST Council shall recommend the date on which GST shall be levied on petroleum crude, HSD, MS, natural gas and ATF; # Social welfare surcharge @ 10% is levied on aggregate duties of Customs excluding CVD in lieu of IGST.*** Customs duty is Nil for import of Domestic LPG sold to household consumers (including NDEC) by PSU OMCs. Customs duty rate is 5% for other importers of domestic LPG.^Effective 4.11.2021

•			
Price buildup of petroleum products (Rs./litre/Cylinder)			
Particulars	Petrol*	Diesel*	
Price charged to dealers (excluding Excise Duty and VAT)	48.23	49.61	
Excise Duty	27.90	21.80	
Dealers' Commission (Average)	3.78	2.58	
VAT (incl VAT on dealers' commission)	15.50	12.68	
Retail Selling Price 95.41 86.67		86.67	

Particulars	PDS SKO*	Subsidised Domestic LPG*
Price before taxes and dealers'/distributors' commission	44.27	794.81
Dealers'/distributors' commission	2.64	61.84
GST (incl GST on dealers'/distributors' commission)	2.35	42.85
Retail Selling Price	49.26	899.50

^{*}Petrol and Diesel at Delhi as per IOCL are as on 2nd December 2021. PDS SKO at Mumbai as on 1st December 2021 and Subsidised Domestic LPG at Delhi as on 1st December 2021.

25. Information on Prices, Taxes and Under-recoveries/Subsidies PDS Kerosene / DBTL Subsidy Sales & profit of petroleum sector (

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

#DBTK subsidy excludes cash incentive/ assistance for establishment of institutional mechanisam for direct transfer of subsidy paid to States/UTs. DBTK subsidy for 2019-20 is till Oct 2019.

Domestic LPG under DBTL (Direct benefit transfer for LPG) 2018-19 2019-20 2020-21 (P) **Particulars** Rs./Crore DBTL subsidy 31,447 22,635 3,559 PME &IEC^ 92 91 99 31,539 22,726 3,658 Total

Sales & profit of petroleum sector (Rs. Crores)					
Particulars	2020)-21	2021-22 (H1)		
	Turnover	PAT	Turnover	PAT	
Upstream/midstream	122 020	17 070	02.224	20,000	
Companies (PSU)	132,830	17,878	92,234	28,088	
Downstream Companies (PSU)	1,080,618	51,542	6,78,641	20,216	
Standalone Refineries (PSU)	111,330	3,033	69,269	1,426	
Private-RIL	278,940	31,944	203,553	17,823	
Borrowings of OMCs (Rs. Crores). As on					

Borrowings of Oivics (Rs. Crores), As on Company Mar²⁰ Mar²¹ Sep'21 **IOCL** 116,545 102,327 84,002 **BPCL** 41,875 26,315 21,001 HPCL 43.021 40.009 37,724

Petroleum sector contribution to Central/State Govt.			
2019-20	2020-21 (P)	2021-22 (H1)	
3,34,315	455,069	216,794	
20%	29%		
2,21,056	217,650	133,130	
8%	7%		
5,55,370	6,72,719	349,923	
	2019-20 3,34,315 20% 2,21,056 8%	2019-20 2020-21 (P) 3,34,315 455,069 20% 29% 2,21,056 217,650 8% 7%	

Total Subsidy as a percentage of GDP (at current prices)			
Particulars 2018-19 2019-20 2020-21			
Petroleum subsidy	0.23	0.13	0.06

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

**Totals may not tally due to roundoff.

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



26. Capital expenditure of PSU oil companies (Rs in crores) Company 2018-19 2019-20 2020-21 (P) 2021-22 (P) **Target April-November** (Annual) ONGC Ltd 28,738 30,115 26,441 29,800 14,464 ONGC Videsh Ltd (OVL) 6.013 5,363 5,351 8.380 2.940 Oil India Ltd (OIL) 2,648 3.702 3.724 12.802 4.108 GAIL (India) Ltd 5,958 4,381 5,560 5,861 3.834 Indian Oil Corp. Ltd. (IOCL) 26,548 28,316 27,195 28,547 15,770 Hindustan Petroleum Corp. Ltd (HPCL) 11,689 13,773 14,036 14,500 8,917 Bharat Petroleum Corp. Ltd (BPCL) 10,084 10,255 10,697 10,000 7,761 Mangalore Refinery & Petrochem Ltd (MRPL) 1.072 850 342 1.318 2,218 Chennai Petroleum Corp. Ltd (CPCL) 1.208 969 592 384 434 Numaligarh Refinery Ltd (NRL) 459 536 981 2.000 1.441 Balmer Lawrie Co. Ltd (BL) 125 40 42 40 11 Engineers India Ltd (EIL) 87 164 730 150 52

Includes expenditure on investment in JV/subsidiaries.

(P) Provisional

Total

Totals may not tally due to roundoff.

98,955

106,642

95,684

104,620

58,613

27. Conversion fact					
Weight to	Weight to volume conversion				
Product	Weight (MT)	Volume (KL)	Barrel (bbl)		
LPG	1	1.844	11.60		
Petrol (MS)	1	1.411	8.88		
Diesel (HSD)	1	1.210	7.61		
Kerosene (SKO)	1	1.285	8.08		
Aviation Turbine Fuel (ATF)	1	1.288	8.10		
Light Diesel Oil (LDO)	1	1.172	7.37		
Furnace Oil (FO)	1	1.0424	6.74		
Crude Oil	1	1.170	7.33		
Exclusive Economic Zone					
200 Nautical Miles 370.4 Kilometers			·		

to	tors and volume conversion				
	Volume conversion				
	From	То			
	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
1 Standard Cubic Metre (SCM)	35.31 Cubic Feet
1 Billion Cubic Metres (BCM)/year of Gas	2.74 MMSCMD
1 Trillion Cubic Feet (TCF) of Gas Reserve	3.88 MMSCMD
1 Million Metric Tonne Per Annum (MMTPA) of LNG	3.60 MMSCMD
1 MT of LNG	1,325 SCM

l gas conversions			
	1 MMBTU	25.2 SCM @10000 kcal/SCM	
	GCV (Gross Calorific Value)	10,000 kcal/SCM	
1	NCV (Net Calorific Value)	90% of GCV	
	Gas required for 1 MW power generation	4,541 SCM/day	
	Power generation from 1 MMSCMD of gas	220 MW	

Petroleum Planning & Analysis Cell

(Ministry of Petroleum & Natural Gas, Government of India) SCOPE Complex, 2nd Floor Core-8, Lodhi Road, New Delhi-110003 Tel.: 011-24306191/92, 011-24361314, Fax: 011-24361253 www.ppac.gov.in

