

INDIAN PETROLEUM & NATURAL GAS STATISTICS

2008-09

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS
ECONOMIC DIVISION

Government of India

Ministry of Petroleum & Natural Gas

Foreword

The Ministry of Petroleum & Natural Gas has been publishing its annual bulletin "***Indian Petroleum & Natural Gas Statistics***" since 1967 containing comprehensive information on the Oil & Gas Sector. The bulletin provides information in terms of both calendar year and financial year, to address the demands of the diverse users. It also includes a brief write-up on production performance of Petroleum & Natural Gas Sector-Some Key Macro-Economic Trends during 2008-09 and also new initiatives taken to increase production performance during the year.

The bulletin denotes the sustained efforts of the Economic Division of the Ministry.

We welcome suggestions to improve the bulletin.

(S. Sundareshan)
Secretary to the Government of India

Shastri Bhawan
New Delhi-110001
March, 2010

Government of India

Ministry of Petroleum & Natural Gas

Economic Division

Preface

The Economic Division of the Ministry of Petroleum & Natural Gas has conscientiously endeavoured to bring out its annual bulletin "***Indian Petroleum & Natural Gas Statistics***" from 1967. This has been made possible with inputs furnished by various Ministries and Departments of the Government of India, Petroleum Planning & Analysis Cell as well as the oil companies.

We express our deep sense of gratitude to all the data providers to the Ministry and record our appreciation for the efforts put in by the officials of the Economic Division viz., Shri Sukhvir Singh, Director, Shri D.P.Singh, Research Officer, Shri S.S Chahal, Senior Investigator and Ms. Kanwaljit Kaur, Jr. Investigator.

Suggestions for its improvement would be duly appreciated.

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Contents

S.No	Subject	Page No.
I.	**General**	
I.1	Scope & Coverage of Data Published	1
I.2	Performance of Petroleum & Natural Gas Sector-Some Key Macro-Economic Trends.	2-8
I.3	Indian Economy-Selected Indicators	9
I.4	Trends in Indian Petroleum Industry at a Glance(Financial Years)	10
I.5	(a) Petroleum Energy in India: 2001-2008(Calendar Years)	11
	(b) Petroleum Energy in India: 2001-02 to 2008-09 (Financial Years)	12
II	**Exploration-Crude Oil & Natural Gas**	
	Exploration	
II.1	Area-wise deployment of deep drilling rigs , wells & metreage drilled by ONGC & OIL .	15
II.2	Exploratory and development drilling by ONGC & OIL .	16
II.3	Status of Wells as on 1st April of each year	17
II.4	State-wise Geological Surveys achievements upto 31.3.2009	18
II.5	State-wise achievements of geophysical field parties in India since inception upto 31.3.2009	19
II.6	Basin-wise/State-wise achievements of drilling since inception upto 31.03.2009	20
II.7	State-wise/Basin-wise oil and gas fields in India as on 1.4.2009	21
	Crude Oil	
II.8	Reserves of Crude Oil in India	22
II.9	Company-wise production of crude oil in India (Calendar & Financial Years)	23
II.10	State-wise production of crude oil in India (Calendar & Financial Years)	24
	Natural Gas	
II.11	Reserves of natural gas in India	25
II.12	State-wise gross production of natural gas in India (Calendar & Financial Years)	26
II.13	State-wise gross and net production of natural gas in India.	27-28
II.14	State-wise utilisation of natural gas in India (Financial Years)	29
II.15	Industry-wise offtakes of natural gas in India	29
III.	**Refining, Transportation & Marketing**	
	Refining	
III.1	Petroleum refining capacity in India	32
III.2	Refinery crude throughput and production of petroleum products (Calendar & Financial Years)	33
III.3	Refinery-wise crude Throughput and production of petroleum products during 2001-02 to 2008-09	34
III.4	(a) Production of Petroleum Products/Pattern of Production: 2001 to 2008	35
	(b) Production of Petroleum Products/Pattern of Production:2001-02 to 2008-09	36

S.No	Subject	Page No.
	Transportation	
III.5	Crude oil, natural gas and product pipelines in India	37
III.6	Tonnage of Indian tankers fleet – 2001 to 2009	38
III.7	Indian Tonnage as on 31.3.2009	39-40
III.8	Share of traffic of petroleum products in the total traffic handled at major ports	41-43
III.9	Movement of POL traffic on Railways since 2001-02	44
III.10	Rail freight rates in respect of petroleum products	44
	Marketing Network	
III.11	Total Retail outlets in India	45
III.12	State-wise number of retail outlets, LDO/SKO dealers and LPG distributors as on 1.4.2009	46
III.13	State-wise and company-wise retail outlets as on 1.4.2009	47
III.14	State-wise and company-wise LPG domestic consumers as on 1.4.2009	48
III.15	CNG activities in India as on 01.04.2009	49
III.16	Introduction to Green Fuels in India	50
IV.	**Prices**	
IV.1	Wholesale price indices of selected petroleum products	53
IV.2	Month & Year-wise average of International Crude Oil prices(Indian Basket)	54
IV.3	(a) Weighted average of crude oil prices	55
	(b) Consumer and producer prices of natural gas	56
IV.4	Subsidies provided under Budget of Government of India	57
IV.5	Subsidies provided by the Government of India & Oil companies on PDS SKO & Domestic LPG	58
IV.6	Price build-up of selected petroleum-products in major cities as on 01.04.2009	59-61
IV.7	Trends in retail selling prices of selected petroleum products in metropolitan towns in India	62
IV.8	Rates of dealer's commission for MS, HSDO and LPG in India	62
V.	**Consumption**	
V.1	(a) Product-wise consumption of petroleum products during 2001-2008	65
	(b) Product-wise consumption of petroleum products during 2001-02 to 2008-09	66
	(c) Product-wise consumption of petroleum products by Public and Private Sector	67
V.2	Sector-wise consumption (end use) of selected petroleum products	68-72
V.3	Consumption of petroleum products and market share of oil companies in India	73
V.4	Deliveries made to international/coastal bunkers during 2001-02 to 2008-09	73
V.5	State-wise consumption of major petroleum products during 2008-09	74-75
V.6	State-wise per capita sales of petroleum products and per capita Sales of selected petroleum products	76
VI.	**Trade**	
VI.1	Import/Export of crude oil and petroleum products from 2001-2008	79
VI.2	Import/Export of crude oil and petroleum products from 2001-02 to 2008-09	80
VI.3	India's Pol. Imports as proportion to overall Exports from the Country: 2001-02 to 2008-09	81
VI.4	Import/Export of crude oil and petroleum products (product-wise) from 2004 to 2008	82
VI.5	Import/Export of crude oil and petroleum products (product-wise) from 2004-05 to 2008-09	83
VI.6	Trends in India's overall trade balance and trade balance with OPEC countries	84
VI.7	Annual Growth of Foreign Direct Investment inflows	85

S.No	Subject	Page No.
VII.	**Taxes and Duties**	
VII.1	Realisation of excise and custom duties from crude oil and petroleum products	89
VII.2	Royalty and oil development cess paid by oil companies on production of crude oil and natural gas	90
VII.3	Sales tax rates applicable on crude oil, natural gas and petroleum products in different States	91-92
VII.4	Sales tax payments on crude oil, condensates, natural gas and petroleum products	93
VIII.	**Manpower**	
VIII.1	Manpower employed in the petroleum industry in India 2001-2009	97
VIII.2	Category-wise manpower employed in the petroleum industry in India 2001-2009	97
VIII.3	Category-wise manpower employed in various sectors of petroleum industry in India 2001-2009	98
IX.	**Energy**	
IX.1	Gross Production of energy by various sources in India	101
IX.2	Gross Domestic Product by Economic Activity	102
X.	**Plan Outlay & Expenditure**	
X.1	Expenditure of Public Sector Undertakings of Ministry of Petroleum & Natural Gas	105
X.2	Import availability ratios of crude oil & petroleum products	106
X.3	Crude oil processing and import during the Eleventh Plan	106
X.4	Eleventh Plan Demand Projections for petroleum products	106
X.5	Crude oil and natural gas production projection profile for Eleventh Plan	107
X.6	Availability of Petroleum Products during Eleventh Plan	107
X.7	Refinery-wise capacity addition during the Eleventh Plan	108
X.8	Refining capacity addition during the Eleventh Plan	108
X.9	Estimates of demand of petroleum products during the Eleventh Plan	109
X.10	Dividend paid by Public Sector Undertakings under the Ministry of Petroleum & Natural Gas.	110
X.11	Equity capital of Public Sector Undertakings under the Ministry of Petroleum and Natural Gas.	110
X.12	Profit earned by Public Sector Undertakings under the Ministry of Petroleum and Natural Gas .	111
X.13	Performance of Public Sector Undertakings under the Ministry of Petroleum and Natural Gas .	112
XI.	**International Petroleum Statistics**	
XI.1	(a) World proved reserves of crude oil at end 2008	115-116
	(b) World proved reserves of natural gas at end 2008	117-118
XI.2	World crude oil production during 2001-2008	119-120
XI.3	Crude oil production by OPEC member countries	121
XI.4	World production of natural gas 2001-2008	122-123
XI.5	World consumption of natural gas 2001-2008	124-125
XI.6	Productivity of producing wells in OPEC Member countries during 2008	126
XI.7	World oil refining capacity	127
XI.8	World refinery crude throughput 2001-2008	128
XI.9	Country-wise world oil consumption 2001-2008	129-130

S.No	Subject	Page No.
XI.10	Product-wise regional consumption of main petroleum products during 2001-2008	131-132
XI.11	World oil production, consumption and relative deficit/surplus in each country/region.	133
XI.12	World crude oil & petroleum products imports and exports during 2008	134
XI.13	Exports of crude oil & refined petroleum products from OPEC	135
XI.14	World imports of natural gas by country-2001-2008	136
XI.15	World imports of refined products by country-2001-2008	137
XI.16	World crude oil exports by country-2001-2008	138
XI.17	World exports of refined products by country-2001-2008	139
XI.18	International petroleum Crude price index during 2001-2008	140
XI.19	Spot prices of key OPEC crude since 2001.	141
XI.20	Crude oil spot prices in US$ per barrel	142
XI.21	Petroleum products spot prices in US$ per barrel	142
XI.22	Natural gas prices for Industry and Household use	143
XI.23	Crude oil import costs in US$ per barrel	144
XI.24	Spot prices of key OPEC crude oils	145
XI.25	Spot prices of major petroleum products in key trading centres of the world	146
XI.26	World survey of selected petroleum products prices in 2008	147
XI.27	Airfield prices of Jet A-1 fuel at major international airports as on 1st April of each year	148
XI.28	Tanker fleet development in OPEC members 2004-2008	149
XI.29	Inter-area total oil movements- 2001-2008	150
XI.30	World primary energy consumption by fuel-2008	151-152
XI.31	Per capita primary energy consumption during 2008 - Some international comparisons	153-154
XI.32	Per capita consumption of main petroleum products-Some international comparisons – 2008	155
XI.33	Trends in world primary energy consumption-2001-2008.	155
XI.34	Primary energy consumption in selected countries of the world-2001-2008.	156-157
XI.35	Economic indicators of OPEC nations during 2008	158
	Appendix	161-174

GENERAL

I.1 Scope and Coverage of Data Published

1. **Scope: The "Indian Petroleum & Natural Gas Statistics"** presents comprehensive statistics on various aspects of Indian Petroleum & Natural Gas Industries. The data on international developments in respect of the important segment of Petroleum and Natural Gas Industries have also been presented in the publication.

2. **Coverage:** The Statistics presented in the current publication cover the exploration, production, refining, marketing activities etc. of Oil sector.

3. **Source:** The primary statistics in respect of petroleum and natural gas industries included in the publication are based on various returns, submitted by the oil public sector undertakings (PSUs), joint venture companies and private companies under the Ministry of Petroleum & Natural Gas.
   The sources of all the secondary data, including international statistics, incorporated in the publication, have been indicated at the bottom of relevant tables.

4. **Limitations:** The data in respect of consumption of petroleum products reflect despatches of various petroleum products from the sales depots of different oil companies to the bulk consumers/retail outlets. The state-wise consumption of such products show despatches to direct consumers / retail outlets meant for consumption / sales in a particular state.

5. **Reference Period:** All the key statistics for the domestic petroleum and natural gas industries have been presented on calendar (January-December) as well as on financial year (April-March) basis.

6. **Natural Gas:** The gross production of natural gas reflects gross withdrawals of natural gas from reservoir. On the other hand, the net production of natural gas show gross withdrawal of natural gas from reservoirs less gas used for reinjection into reservoirs for pressuring gas which is flared and / or vented.
   The utilisation data for natural gas includes gas marketed, gas used for LPG extraction and gas consumed for field operations by the companies engaged in hydrocarbons exploration / production activities.

7. **Petroleum Exports:** The data relating to export of crude oil includes Indian Crude Oil (Bombay High) consigned for processing abroad. The refined petroleum products supplied by the Indian Oil Corporation to Nepal have also been included under Indian exports from 1983-84.

8. **Petroleum Imports:** The crude oil and product import figures given in the publication includes crude oil / petroleum products imported by the oil PSUs, private and parallel marketers on behalf of Nepal for processing of crude oil in Indian refineries and arranging supplies of desired products to Nepal. Petroleum products actually brought into the country from processing of Indian and international crudes at foreign refineries for Indian oil companies, have also been included under the product import figures.

9. **Value of Import/Export:** The value data in respect of exports of petroleum included in the publication show f.o.b. value of exports whereas similar value figures for imports reflect c.i.f. value of imports.

10. **Revision / updating:** Necessary revision / updating in the past data have been made in the light of latest available figures.

11. **Abbreviations:** Details of abbreviations used have been provided in Appendix.

12. **Conversion factor:** The conversion factors generally used in the oil sector are also given in the appendix.

I.2 Performance of Petroleum & Natural Gas Sector –Some Key Macro-Economic Trends

Introduction

Efficient and reliable energy supplies are essential for accelerating the growth of the Indian economy. While the energy needs of the country are increasing at a rapid rate, the energy resources that are indigenously available are limited. The oil and gas share in the energy consumption has reached a level of about 40%. The Ministry of Petroleum and Natural Gas is mandated to take measures for exploration and exploitation of petroleum resources, including natural gas and coal bed methane, and also distribution, marketing and pricing of petroleum products.

There has been effort to increase exploration and production of crude oil and natural gas with the New Exploration Licensing Policy (NELP) and schemes for improved oil recoveries. After a high level of crude oil production of 34.118 metric tonnes in 2007-08, the production was 33.508 MMT in 2008-09 i.e. a decline of 1.79%. However, natural gas production has shown an increase of 1.32% as it increased from 32.417 BCM in 2007-08 to 32.845 BCM in 2008-09.

In order to facilitate oil & gas security, there has been considerable increase in refining capacity over the years. Refinery production (crude throughput) during 2008-09 was 160.772MMT, i.e. an increase of 2.99% over production of 156.103 MMT in 2007-08.

2. Crude Oil and Natural Gas Production

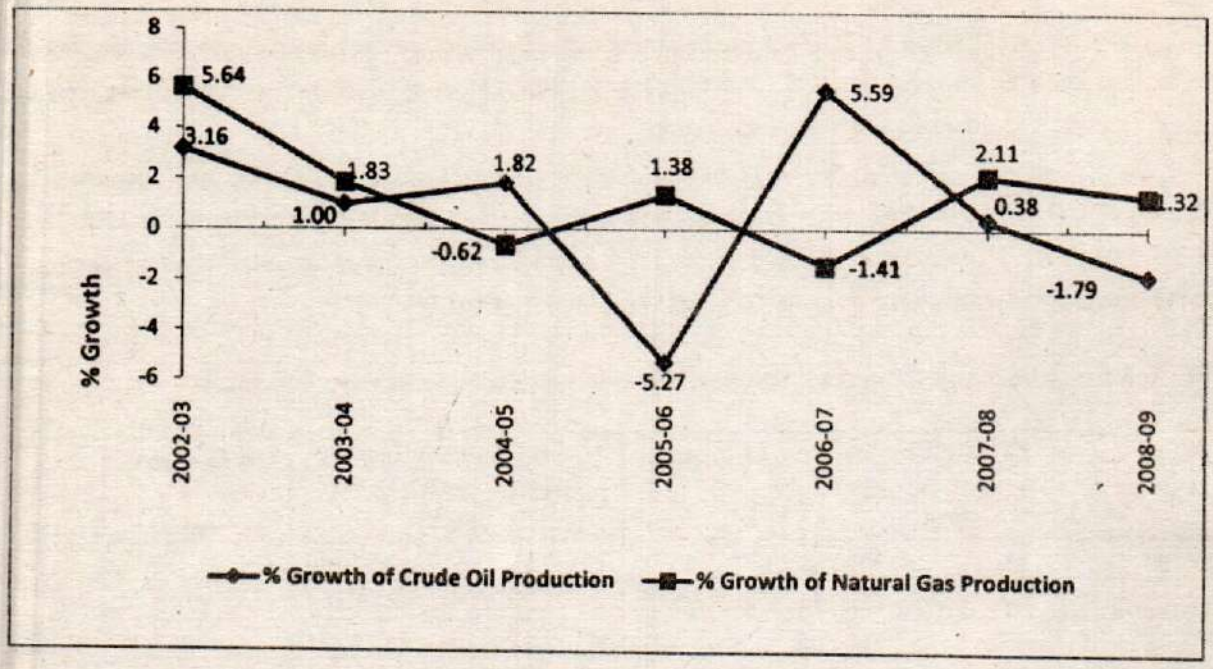
The trend in production of crude oil and natural gas during the period 2001-02 to 2008-09 is in Table-1 and Graph-1. The crude oil production has remained in the range 32 to 34 MMT during this period with year to year variations. Natural gas production has increased from 29.714 BCM in 2001-02 to 32.845 BCM in 2008-09. It may be noted that there was a decline in production of crude oil in 2008-09. This was due to various reasons like environmental and law and order issue in Assam, power disturbances in Gujarat, delay in production from well in Andhra Pradesh, and less inputs in a number of development/side track wells in Mumbai. Some of these constraints were overcome and higher production is expected during the next year.

The Government of India launched the eighth bid round of New Exploration Licensing Policy (NELP-VIII) and fourth round of Coal Bed Methane Policy (CBM-IV) to enhance the Country's energy security. Overseas oil and gas production in coming years is likely to be about 7 MMT and 2 BCM per annum respectively.

Table-1: Crude Oil and Natural Gas Production

Year	Crude Oil Production (MMT)	% Growth	Natural Gas Production (BCM)	% Growth
2001-02	32.032		29.714	
2002-03	33.044	3.16	31.389	5.64
2003-04	33.373	1.00	31.962	1.83
2004-05	33.981	1.82	31.763	-0.62
2005-06	32.190	-5.27	32.202	1.38
2006-07	33.988	5.59	31.747	-1.41
2007-08	34.118	0.38	32.417	2.11
2008-09	33.508	-1.79	32.845	1.32

Graph-1: Percentage Growth in Crude Oil & Natural Gas Production



3. Refining Capacity & Production

In order to facilitate oil and gas security, there has been considerable increase in refining capacity over the years as may be seen in Table-2. There was an increase in domestic refining capacity by over 19% to reach 177.968 Metric Million Tonne Per Annum (MMTPA) in 2008-09 as compared to 148.968 MMTPA in 2007-08. The refining capacity was 112.540 MMTPA during 2001-02. By the end of XI Plan, refinery capacity is expected to reach 255.832 MMTPA.

The Refinery production (crude throughput) achievement was 160.772 MMT during 2008-09 which marks net increase of 49.87% over that produced during 2001-02 (107.274 MMT) and 2.99% over 2007-08 (156.103 MMT) as depicted in **Table-2**.

Table-2: Refining Capacity & Production

Year	Refining Capacity @ (MMTPA)	% Growth	Refinery Production (Crude Throughput) (MMTA)	% Growth
2001-02	112.540		107.274	
2002-03	114.670	1.89	112.559	4.93
2003-04	116.968	2.00	121.840	8.25
2004-05	127.368	8.89	127.416	4.58
2005-06	127.368	0.00	130.109	2.11
2006-07	132.468	4.00	146.551	12.64
2007-08	148.968	12.46	156.103	6.52
2008-09	148.968	0.00	160.772	2.99

@= As on 1st April of the year.

4. Production and Consumption of Petroleum Products

There was an increase by 3.87% in production of total petroleum products, including fractioners, during 2008-09 compared to the year 2007-08. The indigenous consumption of petroleum products increased by 3.61% during 2008-09 compared to the previous year.

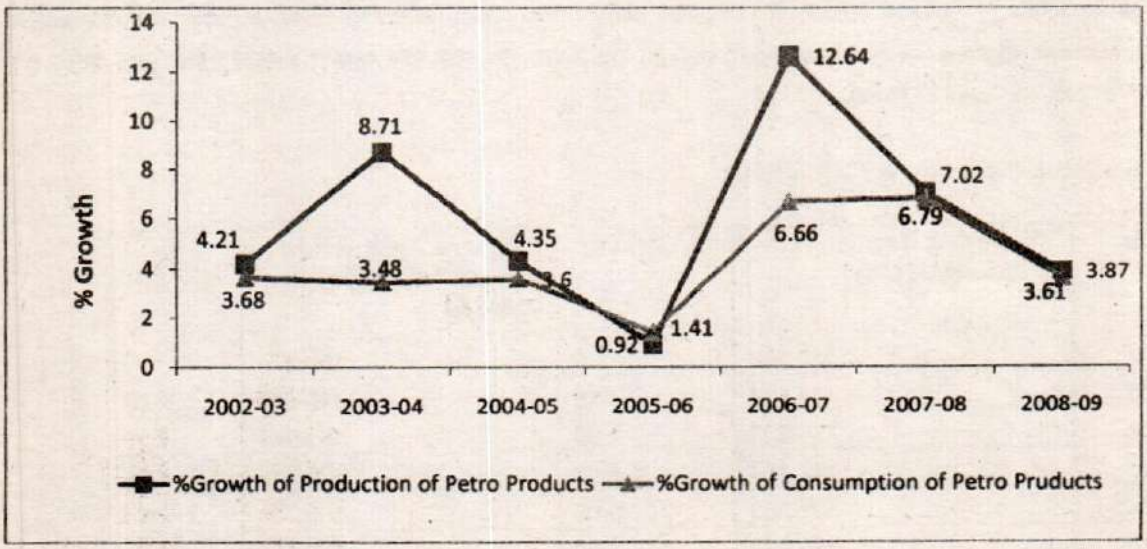
During the year 2008-09, net consumption of petroleum products was 133.599 MMT against total production of 152.678 MMT. Year-wise production and consumption of petroleum products during 2001-02 to 2008-09 is depicted in **Table-3 and Graph-2** below. It is evident from Table-3 that production and consumption (both) of petroleum products have a marked upward trend since 2001-02.

Table-3: Production and Consumption (indigenous sales) of Petroleum Products

Year	Production of Petro-Products * (MMT)	% Growth	Consumption of Petro-Products ** (MMT)	% Growth
2001-02	102.209		100.432	
2002-03	106.510	4.21	104.126	3.68
2003-04	115.783	8.71	107.751	3.48
2004-05	120.819	4.35	111.634	3.60
2005-06	121.935	0.92	113.213	1.41
2006-07	137.353	12.64	120.749	6.66
2007-08	146.990	7.02	128.946	6.79
2008-09	152.678	3.87	133.599	3.61

Note: * = Includes LPG production from Natural Gas.
** = Excludes refinery fuels and includes imports also.

Graph-2: Percentage Growth in Production & Consumption of Petroleum Products



5. Imports and prices of Crude Oil:

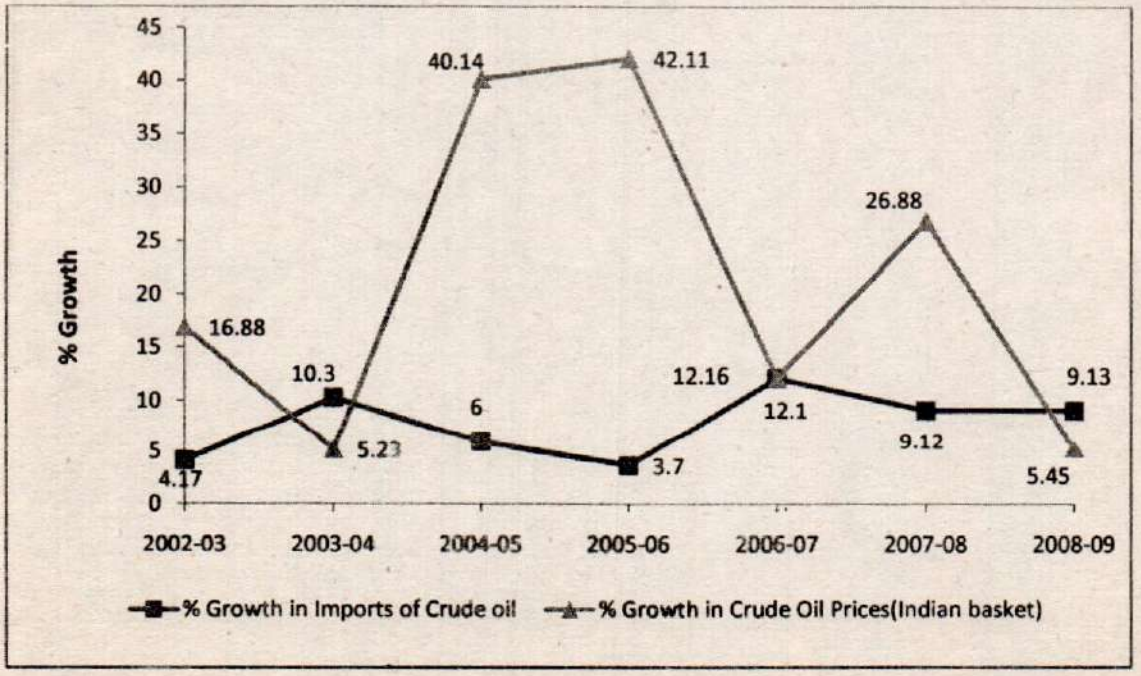
Imports of Crude Oil during 2008-2009, in terms of quantity was 132.775 MMT valued at Rs.3,48,288 crore, this marked an increase by 9.13% in quantity terms w.r.t. 121.672 MMT during the year 2007-08, but increased by 27.72% (w.r.t.Rs.2,72,699 crore) in value terms over the year of 2007-08. In terms of US$, the extent of increase in value of Crude imports was 13.22%. During the year 2001-02 the imports of crude oil was 78.706 MMT that increased to 132.775 MMT in 2008-09 i.e. an increase of 68.70% as compared to imports during 2001-02.

The average price of International crude oil (Indian Basket) has increased from US$22.75/bbl. in 2001-02 to US$ 83.57/bbl. in 2008-09 i.e. an increase of about 267%. The trend in growth of crude oil imports and crude oil International (Indian Basket) prices are depicted in **Table-4 and Graph-3:**

Table-4: Imports of Crude Oil and average Crude Oil Prices

Year	Imports of Crude Oil (MMT)	% Growth	Average Crude oil Prices (US$/bbl.)	% Growth
2001-02	78.706		22.75	
2002-03	81.989	04.17	26.59	16.88
2003-04	90.434	10.30	27.98	05.23
2004-05	95.861	06.00	39.21	40.14
2005-06	99.409	03.70	55.72	42.11
2006-07	111.502	12.16	62.46	12.10
2007-08	121.672	09.12	79.25	26.88
2008-09	132.775	09.13	83.57	05.45

Graph-3: Percentage Growth in Imports of Crude Oil & average International Crude Oil Prices



6. Imports & Exports of Petroleum Products:

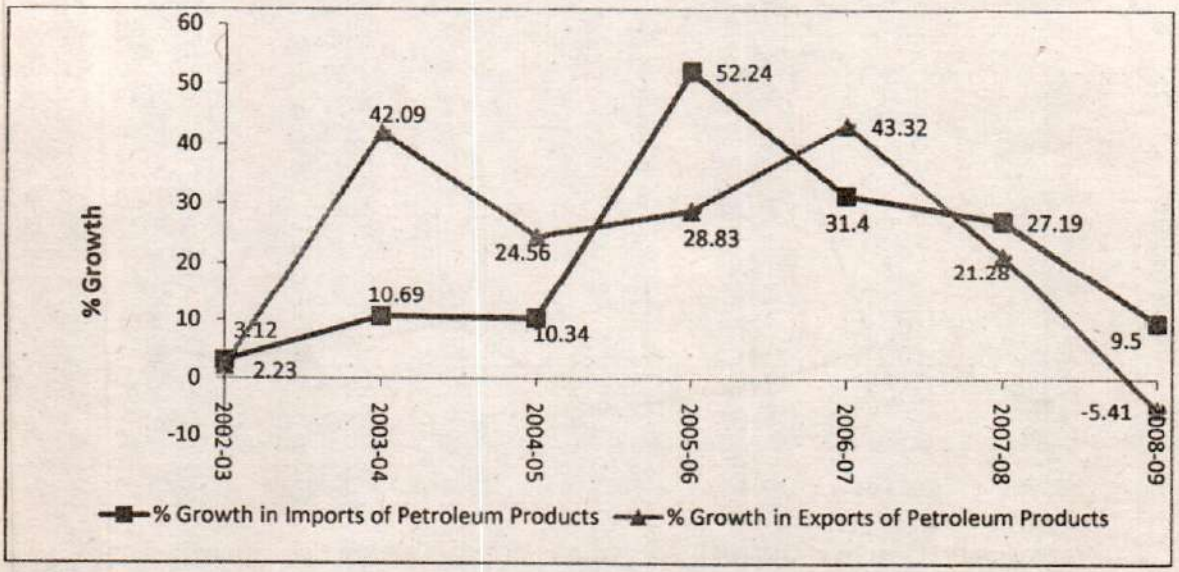
It may be seen that despite considerable variations in International prices of crude oil, imports have followed a steady growth primarily to meet domestic demand of a burgeoning economy, apart from re-exports of petroleum products. With substantial increase in refining capacity in India, as seen earlier, exports of petroleum products have picked since 2001-02 but declined in 2008-09 due to slow down in global economy.

Exports of petroleum products during 2008-09, in terms of quantity was 38.572 MMT valued at Rs.1,21,086 crore, which marked a decrease -5.41% in quantity (w.r.t. 40.775 MMT during the year 2007-08), but increased by 9.29% (w.r.t.Rs.1,10,789 crore) in value terms in Indian rupees over the year of 2007-08. In terms of US$, the extent of decrease of exports in value was -1.91%. The exports of petroleum products was 10.065 MMT in 2001-02, which steeply increased by 283.23% upto 2008-09. Imports of petroleum products are relatively limited with greater focus on importing crude oil to utilize domestic capacity (**Table-5 & Graph-4**).

Table-5: Imports & Exports of Petroleum Products

Year	Imports of Petroleum Products (MMT)	% Growth	Exports of Petroleum Products (MMT)	% Growth
2001-02	07.009		10.065	
2002-03	07.228	03.12	10.289	02.23
2003-04	08.001	10.69	14.620	42.09
2004-05	08.828	10.34	18.211	24.56
2005-06	13.440	52.24	23.461	28.83
2006-07	17.660	31.40	33.624	43.32
2007-08	22.462	27.19	40.779	21.28
2008-09	20.327	09.50	38.572	-05.41

Graph-4: Percentage Growth in Imports & Exports of Petroleum Products



7. Petroleum Subsidy on SKO (PDS) and LPG (Domestic)

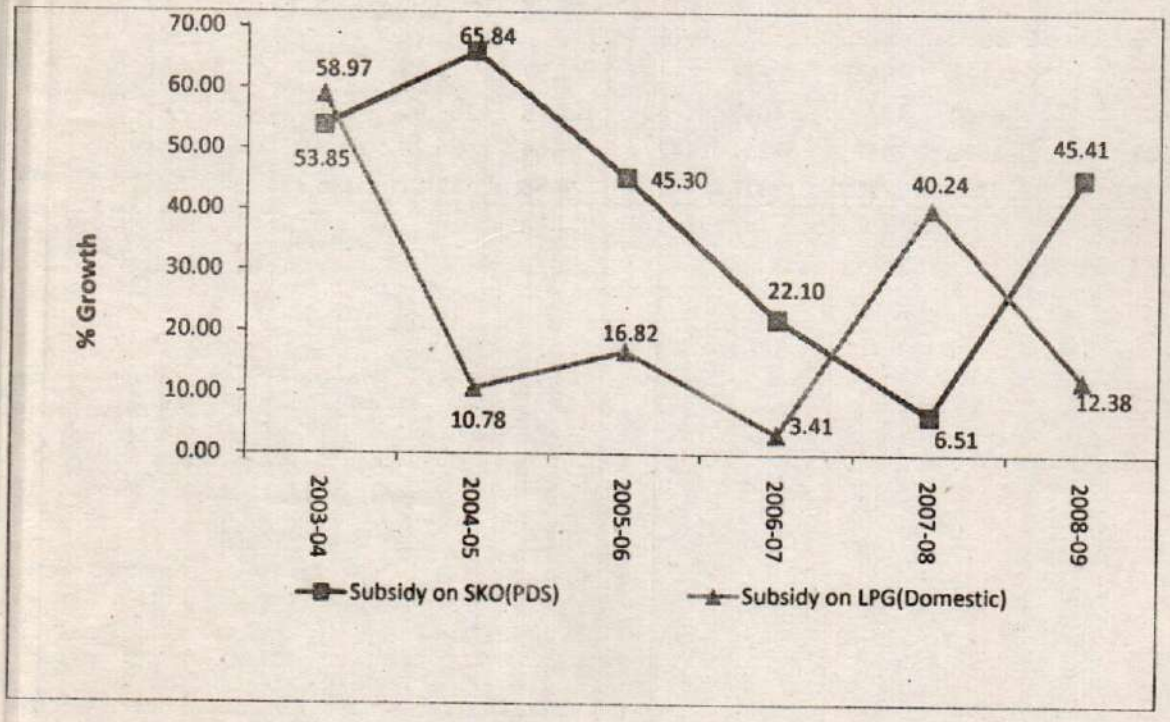
The total subsidy during 2008-09 provided by Government of India & Oil companies on SKO and LPG were Rs.29199.00 & Rs.19314 crore respectively and these marked increase by 45.41% & 12.38% over the 2007-08 subsidies of Rs.20080 & Rs.17186 crore respectively. The Total Budget Subsidy on SKO(PDS) & LPG(Domestic) increased by 30% over the year 2007-08 due to increase in prices of Crude oil & petroleum products in International market. The trends in growth of subsidies of both SKO & LPG are depicted in Table-6 and Graph-5.

Table-6: Subsidies on SKO (PDS) & LPG (Domestic)

(Rs. Crore)

Years	Subsidy on SKO(PDS)			% Growth	Subsidy on LPG(Domestic)			% Growth
	Fiscal	Oil Companies	Total		Fiscal	Oil Companies	Total	
1	2	3	4	5	6	7	8	9
2002-03	2098	2067	4165		2398	3363	5761	
2003-04	2657	3751	6408	53.85	3635	5523	9158	58.97
2004-05	1147	9480	10627	65.84	1783	8362	10145	10.78
2005-06	1057	14384	15441	45.30	1605	10246	11851	16.82
2006-07	970	17883	18853	22.10	1554	10701	12255	3.41
2007-08	978	19102	20080	6.51	1663	15523	17186	40.24
2008-09	974	28225	29199	45.41	1714	17600	19314	12.38

Graph-5: Percentage growth in Subsidy on SKO (PDS) and LPG (Domestic)



8. Growth of Foreign Direct Investment Inflows

There is a continued need for foreign investment and technical know-how particularly in the field of exploration and production of petroleum. Hence, this sector is fully open to foreign direct investment with 100 percent equity through automatic route, subject to sectoral regulation that are equally applicable to domestic and foreign players. There are some sectoral restrictions on refining by public sector companies (to the extent of 49%) and marketing services due to a vast existing network in the economy. Nevertheless, trade and distribution of petroleum products are given complete market access and national treatment to FDI projects, subject to minimum investment of Rs. 2000 crore. Year-wise FDI inflows under Petroleum & Gas sector is given in Table-7. It may be observed that FDI in petroleum and natural gas has varied considerably over the years that could at least partly due to the bulkiness of investment in the sector. The highest FDI was received in 2007-08 when it reached Rs. 5729 crore contributing almost 6% of total FDI in the economy. The sector received Rs.1931 crore during 2008-09.

Years	Foreign Direct Investment				Annual Growth (%)			
	All Sector		P&NG Sector		All Sector		P&NG Sector	
	Million		Million		Million		Million	
	Rs.	US$	Rs.	US$	Rs.	US$	Rs.	US$
1	2	3	4	5	6	7	8	9
2004-05	146530	3219	5182	113				
2005-06	246130	5546	636	14	67.97	72.29	-87.73	-87.61
2006-07	706300	15730	4015	89	186.96	183.63	531.29	535.71
2007-08	986640	24579	57291	1427	39.69	56.26	1326.92	1503.37
2008-09	1229190	27309	19310	412	24.58	11.11	-66.29	-71.13

I.3 Indian Economy- Selected Indicators

Indicator	Unit/base	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9	10
1. Geographical Area	M.Sq.Km.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
2. Population	Million	1037	1056	1072	1089	1106	1122	1138	1154
3. Gross National Product at factor cost :									
(i) At current prices	Rs.Billion	20801	22447	25199	28553	32496	37496	42970 Q	49062 R
(ii) At constant prices+	"	19522	20295	22049	23669	25932	28498	31149 Q	33236 R
4. Net National Product at factor cost :									
(i) At current prices	Rs.Billion	18477	19942	22399	25264	28708	33126	37876 Q	43264 R
(ii) At constant prices+	"	17399	18058	19635	21045	23069	25334	27648 Q	29420 R
5. Per Capita Net National Product :									
(i) At current prices	Rupees	17800	18885	20895	23199	25956	29524	33283 Q	37490 R
(ii) At constant prices+	"	16762	17101	18317	19325	20858	22580	24295 Q	25494 R
6. Foreign Exchange Reserves : !									
(i) Gold	Rs.Billion	148.68	167.85	182.16	196.86	256.74	295.73	401.24	416.55
(ii) SDR	Mn. of SDRs.	8.0	3.0	2.0	3.0	2.0	1.0	11.0	4.33
(iii) Foreign currency Asset	Rs.Billion	2491.18	3414.76	4662.15	5931.21	6473.27	8365.97	11960.23	12366.39
Foreign Exchange Rate!	Rs./US$	47.69	48.40	45.95	44.93	44.27	42.25	40.26	45.99
7. Foreign Trade :									
(i) Import	Rs.Billion	2452.00	2972.06	3591.08	5010.65	6604.09	8405.06	10123.12	13055.03
(ii) Export	"	2090.18	2551.37	2933.67	3753.4	4564.18	5717.79	6558.64	7669.35
(iii) Balance of Trade	"	-361.82	-420.69	-657.41	-1257.25	-2039.91	-2687.27	-3564.48	-5385.68
8. Index of Production :									
(i) Agricultural	@	178.8	150.4	183.0	177.3	191.9	200.7	207.1	188.7 aa
(ii) Industrial	1993-94=100	167.0	176.6	189.0	204.8	221.5	247.1	268	274.3
9. Wholesale Price Index :	1993-94=100	161.3	166.8	175.9	187.3	195.6	206.2	215.8	234
10. Consumer Price Index:									
(i) Industrial Workers	1982=100	463	482	500	520	542	125	133	145 a
(ii) Agricultural Labourers	1986-87=100	309	324	331	340	353	380	409	450
(iii) Urban non-manual wor	1984-85=100	395	410	420	436	456	486	515	561
11. Employment : !									
(i) Public Sector	Million	18.77	18.58	18.20	18.01	18.19	N.A.	N.A.	N.A.
(ii) Private Sector	"	8.43	8.42	8.25	8.45	8.80	N.A.	N.A.	N.A.
Total	"	27.21	27.00	26.44	26.46	26.99	N.A.	N.A.	N.A.
No. of persons on live register of employment exchange	Million	42.00	41.17	41.39	40.46	39.35	41.47	39.97	N.A.
12. Energy Generation (Gross) :									
Coal	Mn.Tonne	327.79	341.27	361.25	382.61	407.04	430.83	457.08	493.28
Lignite	"	24.81	26.02	27.96	30.34	30.06	31.29	33.98	NA
Natural Gas	Bn.Cub.Mtr.	29.714	31.389	31.962	31.763	32.202	31.747	32.417	32849
Crude Oil	Mn.Tonne	32.03	33.04	33.37	33.98	32.19	33.988	34.118	33.506
Petroleum Products(Incl Rf	"	107.28	111.79	124.02	129.36	131.08	148.27	158.74	164.59
13. Electricity Generated (Gross)									
(i) Utilities									
Hydel	B.KWH	73.5	64.0	75.2	84.6	101.5	113.5	120.4	114.1
Thermal	"	424.4	449.3	472.1	492.8	506	538.4	585.3	617.8
Nuclear	"	19.5	19.4	17.8	17	17.3	18.8	16.9	14.7
Total	"	517.4	532.7	565.1	594.4	623.8	670.7	722.6	746.6
(ii) Non-utilities	"	61.7	63.8	68.2	71.4	73.6	81.8	90.5	95.9
Grand Total	"	**579.1**	**596.5**	**633.3**	**665.8**	**697.4**	**752.5**	**813.1**	**842.4**

a: The current series of CPI for Industrial workers with 2001 base was introduced w.e.f. January,2006 index. The earlier series on 1982=100 was simultaneously discontinued. The conversion factor from current series is 4.63 in case of general index.

* : Provisional

@ : Triennium ending 1981-82

! : As on 31 March

aa: on the basis of 3rd advance estimates

Q : Quick Estimates.

+: Base 1999-2000

R: Revised Estimates

N.A.: Not Available

Source : Economic Survey, RBI, Ministry of Statistics/Industry/Finance.

I.4 Trends in Indian Petroleum Industry at a Glance

Item	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9	10
1. Reserves !									
(i) Crude Oil	Mn.Tonne	732	741	761	739	786	756	725	770
(ii) Natural Gas	Bn.Cub.Mtr.	763	751	853	923	1101	1075	1055	1090
2. Consumption									
(i) Crude Oil #	Mn.Tonne	107.27	112.56	121.84	127.42	130.11	146.55	156.103	160.77
(ii) Petroleum Products <	"	100.43	104.13	107.75	111.63	113.21	120.75	128.95	133.60
(iii)Natural Gas utilisation	Bn.Cub.Mtr.	28.037	29.963	30.906	30.775	31.325	30.791	31.478	31.75
3. Production :									
(i) Crude Oil	"	32.03	33.04	33.37	33.98	32.19	33.988	34.118	33.51
(ii) Petroleum Products	"	100	104.14	113.46	118.58	119.75	135.26	144.93	150.52
(iii) LPG from natural gas	"	2.21	2.37	2.32	2.24	2.19	2.09	2.06	2.16
(iv) Natural Gas	Bn.Cub.Mtr.	29.714	31.389	31.962	31.763	32.202	31.747	32.417	32.845
4. (i) Total Refinery capacity	MMTPA	112.54	114.67	116.968	127.368	127.368	132.468	148.968	148.968
(ii) Capacity Utilisation	%	95.32	98.16	104.17	100.04	102.15	110.63	104.79	107.92
5. Imports & Exports									
(I) Gross Imports :									
(a) Qty : Crude Oil	Mn.Tonne	78.71	81.99	90.44	95.86	99.41	111.5	121.67	132.77
Pol. Products	"	7.01	7.23	8.00	8.83	13.44	17.66	22.46	20.33
Total (a)	"	85.72	89.22	98.44	104.69	112.85	129.16	144.13	153.10
(b) Value:Crude Oil	Rs.Billion	603.97	761.95	835.28	1170.03	1717.02	2190.29	2726.99	3482.88
Pol.Products	"	72.49	88.47	97.23	148.87	279.71	411.6	610	642.69
Total (b)	"	676.46	850.42	932.51	1318.9	1996.73	2601.89	3336.99	4125.57
Pol. Imports as per DGCI&S	"	667.7	853.67	945.2	1340.94	1946.4	2585.72	3206.54	4198.78
(ii) Exports :									
(a) Qty :									
Pol. Products	Mn.Tonne	10.07	10.29	14.62	18.21	23.46	33.62	40.78	38.57
(b) Value:									
Pol.Products	Rs.Billion	82.19	108.68	167.81	299.28	499.74	810.94	1107.89	1210.86
(iii) Net Imports :									
(a) Qty : Crude Oil	Mn.Tonne	78.71	81.99	90.44	95.86	99.41	111.5	121.67	132.77
Pol. Products	"	-3.06	-3.06	-6.62	-9.38	-10.02	-15.96	-18.32	-18.24
Total (a)	"	75.65	78.93	83.82	86.48	89.39	95.54	103.35	114.53
(b) Value:Crude Oil	Rs.Billion	603.97	761.95	835.28	1170.03	1717.02	2190.29	2726.99	3482.88
Pol.Products	"	-9.7	-20.21	-70.58	-150.41	-220.03	-399.34	-497.89	-568.17
Total (b)	"	594.27	741.74	764.7	1019.62	1496.99	1790.95	2229.1	2914.71
(iv) Unit Value of Crude oil imports(gross)	Rs./MT	7673.358	9293.206	9235.736	12205.61	17272.11	19643.86	22413	26232.43
6. Index of self reliance		30	30	29	28	26	26	25	23
7. Contribution of Oil Sector to Centre/State Resources									
(i) Royalty from crude oil	Rs.Billion	24.86	30.67	31.74	42.71	50.67	58.57	65.44	71.55
(ii) Royalty from gas	"	6.59	7.78	8.54	8.29	8.637	10.75	14.87	16.24
(iii)Oil Development Cess	"	28.78	50.91	51.43	55.37	51.96	71.77	71.56	68.86
(iv) Excise & Custom duties	"	361.04	451.27	507.33	563.95	631.43	718.93	783.73	705.57
(v) Sales Tax	"	200.9	297.41	328.49	390	459.34	530.86	598.9	629.62
(vi) Dividend	"	32.87	67.94	63.1	94.36	95.45	115.27	94.74	98.61

Note:

* : Provisional. ! : Balance recoverable reserves as on 1st April of initial year. N.A.: Not Available.

#: In terms of refinery crude throughput <: excluding RBF

Source: Public Sector Undertakings / DGCI&S, Kolkata / Ministry of Finance.

I.5(a) Petroleum Energy in India
(Calender Years)

Products	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
Availability								
In Original Units (Million Tonnes)								
Kerosene	10.29	10.67	10.83	9.85	9.74	9.83	10.958	9.580
ATF	2.43	2.28	2.50	1.99	3.26	3.97	4.276	4.78
HSD	37.14	36.96	36.25	35.22	40.36	41.20	44.604	51.828
LDO	1.58	2.09	1.71	1.71	1.11	0.767	0.704	0.659
Fuel Oils	8.45	12.54	12.52	11.80	13.27	11.14	10.072	12.497
Others*	21.48	23.21	25.29	27.01	25.79	28.02	30.743	32.684
Total	**81.37**	**87.75**	**89.10**	**87.58**	**93.52**	**94.92**	**101.36**	**112.03**
In Million Tonnes of Coal Equivalent Unit @								
Kerosene	20.58	21.34	21.66	19.70	19.48	19.66	21.92	19.16
ATF	4.86	4.56	5.00	3.98	6.52	7.94	8.56	9.56
HSD	74.28	73.92	72.50	70.44	80.72	82.40	89.20	103.66
LDO	3.16	4.18	3.42	3.42	2.22	1.54	1.40	1.32
Fuel Oils	16.90	25.08	25.04	23.60	26.54	22.28	20.14	25.00
Others*	42.96	46.42	50.58	54.02	51.58	56.04	61.48	65.36
Total	**162.74**	**175.50**	**178.20**	**175.16**	**187.06**	**189.86**	**202.70**	**224.06**
In Million Tonnes of Coal Replacement Unit @								
Kerosene	82.92	85.36	86.64	78.80	77.92	78.64	87.68	76.64
ATF	18.23	17.10	18.75	14.93	24.45	29.78	32.10	35.85
HSD	334.26	332.64	326.25	316.98	363.24	370.80	401.40	466.47
LDO	11.06	18.81	15.39	15.39	9.99	6.93	6.30	5.94
Fuel Oils	16.90	25.08	25.04	23.60	26.54	22.28	20.14	25.00
Others*	81.62	88.89	94.58	99.15	100.22	105.98	116.81	126.37
Total	**544.39**	**567.88**	**566.65**	**548.85**	**602.36**	**614.41**	**664.43**	**736.27**
Consumption#								
In Original Units (Million Tonnes)								
Kerosene	10.29	9.80	9.49	9.30	9.47	9.41	9.37	9.31
ATF	2.27	2.26	2.39	2.72	3.13	3.83	4.4	4.49
HSD	36.89	36.61	36.18	38.31	36.47	39.41	44.11	50.8
LDO	1.23	1.35	1.24	1.13	0.89	0.74	0.67	0.61
Fuel Oils	11.66	11.80	11.59	12.16	12.51	11.49	11.594	11.181
Others*	21.12	22.96	24.98	26.88	27.17	29.34	32.932	34.714
Total	**78.80**	**84.78**	**85.87**	**90.50**	**89.63**	**94.23**	**103.08**	**111.11**
In Million Tonnes of Coal Equivalent Unit @								
Kerosene	20.58	19.60	18.98	18.60	18.94	18.83	18.74	18.62
ATF	4.54	4.52	4.78	5.44	6.25	7.66	8.80	8.98
HSD	73.78	73.22	72.36	76.62	72.93	78.82	88.22	101.60
LDO	2.46	2.70	2.48	2.26	1.78	1.48	1.34	1.22
Fuel Oils	14.00	23.60	23.18	24.32	25.02	22.98	23.19	22.36
Others*	14.24	45.92	49.96	53.76	54.34	58.69	65.86	69.43
Total	**157.60**	**169.56**	**171.74**	**181.00**	**179.27**	**188.46**	**206.15**	**222.21**
In Million Tonnes of Coal Replacement Unit @								
Kerosene	82.32	78.40	75.92	74.40	75.78	75.31	74.96	74.48
ATF	17.03	16.95	17.93	20.40	23.45	28.73	33.00	33.68
HSD	332.01	329.49	325.62	344.79	328.20	354.69	396.99	457.20
LDO	8.61	12.15	11.16	10.17	8.01	6.68	6.03	5.49
Fuel Oils	14.00	23.60	23.18	24.32	25.02	22.98	23.19	22.36
Others*	180.26	87.09	91.97	97.48	99.83	105.96	117.31	128.94
Total	**634.23**	**547.68**	**545.78**	**571.56**	**560.28**	**594.34**	**651.48**	**722.15**

(P)=Provisional

@ : Based on conversion factors adopted by FPC, 1974

(#) : Includes Petroleum Products used for power generation.

* : Includes LPG, Gasolines,Refinery Gas and Refinery Fuel.

I.5(b) Petroleum Energy in India
(Financial Years)

Products	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09(p)
1	2	3	4	5	6	7	8	9
Availability								
In Original Units (Million Tonnes)								
Kerosene	10.07	10.73	10.99	9.50	9.84	9.76	10.146	9.569
ATF	2.40	2.36	2.63	2.78	3.42	4.16	4.624	4.374
HSD	37.04	37.14	37.24	39.75	39.84	43.06	46.985	50.987
LDO	1.70	2.08	1.66	1.55	0.92	0.80	0.671	0.606
Fuel Oils	13.17	12.30	13.02	13.76	13.29	14.92	9.161	13.203
Others*	22.21	24.02	25.64	27.10	26.03	28.75	19.733	32.149
Total	**86.59**	**88.63**	**91.18**	**94.44**	**93.34**	**101.45**	**91.32**	**110.89**
In Million Tonnes of Coal Equivalent Unit @								
Kerosene	20.14	21.46	21.98	19.00	19.68	19.52	20.30	19.14
ATF	4.82	4.72	5.26	5.56	6.84	8.32	9.24	8.74
HSD	73.82	74.28	74.48	79.50	79.68	86.12	93.98	101.98
LDO	3.40	4.16	3.32	3.10	1.84	1.60	1.34	1.22
Fuel Oils	16.86	24.60	26.04	27.52	26.58	29.84	18.32	26.40
Others*	44.42	48.04	51.28	54.20	52.06	57.50	39.46	64.30
Total	**163.46**	**177.26**	**182.36**	**188.88**	**186.68**	**202.90**	**182.64**	**221.78**
In Million Tonnes of Coal Replacement Unit @								
Kerosene	80.56	85.84	87.92	76.00	78.72	78.08	81.20	76.56
ATF	18.08	17.70	19.73	20.85	25.65	31.20	34.65	32.78
HSD	332.19	334.26	335.16	357.75	358.56	387.54	422.91	458.91
LDO	11.90	18.72	14.94	13.95	8.28	7.20	6.03	5.49
Fuel Oils	16.86	24.60	26.04	27.52	26.58	29.84	18.32	26.40
Others*	84.40	92.18	95.38	100.47	99.99	108.89	119.21	124.74
Total	**543.99**	**573.30**	**579.17**	**596.54**	**597.78**	**642.75**	**682.32**	**724.88**
Consumption#								
In Original Units (Million Tonnes)								
Kerosene	10.43	10.41	10.23	9.40	9.54	9.51	9.37	9.3
ATF	2.26	2.27	2.48	2.81	3.30	3.98	4.54	4.42
HSD	36.55	36.64	37.07	39.65	40.19	42.90	47.67	51.71
LDO	1.59	2.06	1.62	1.48	0.88	0.72	0.67	0.55
Fuel Oils	12.98	12.74	12.95	13.54	12.83	12.62	12.72	12.59
Others*	22.01	23.57	25.44	27.40	28.06	31.05	34.25	35.51
Total	**85.82**	**87.69**	**89.79**	**94.28**	**94.80**	**100.78**	**109.22**	**114.08**
In Million Tonnes of Coal Equivalent Unit @								
Kerosene	20.86	20.82	20.46	18.80	19.08	19.01	18.74	18.60
ATF	4.52	4.54	4.96	5.62	6.59	7.97	9.08	8.84
HSD	73.10	73.28	74.14	79.30	80.38	85.79	95.34	103.42
LDO	3.18	4.12	3.24	2.96	1.77	1.44	1.34	1.10
Fuel Oils	25.96	25.48	25.90	27.08	25.66	25.24	25.44	25.18
Others*	44.02	47.14	50.88	54.80	56.13	62.11	68.50	71.03
Total	**171.64**	**175.38**	**179.58**	**188.56**	**189.60**	**201.55**	**218.44**	**228.17**
In Million Tonnes of Coal Replacement Unit @								
Kerosene	83.44	83.28	81.84	75.20	76.32	76.04	74.96	74.40
ATF	16.95	17.03	18.60	21.08	24.71	29.87	34.05	33.15
HSD	328.95	329.76	333.63	356.85	361.71	386.06	429.03	465.39
LDO	14.31	18.54	14.58	13.32	7.95	6.48	6.03	4.95
Fuel Oils	25.96	25.48	25.90	27.08	25.66	25.24	25.44	25.18
Others*	82.04	88.77	94.30	99.45	104.05	113.18	125.32	132.95
Total	**551.65**	**562.86**	**568.85**	**592.97**	**600.40**	**636.87**	**694.83**	**736.02**

(P)=Provisional

@ : Based on conversion factors adopted by FPC, 1974

(#) : Includes Petroleum Products used for power generation.

* : Includes LPG, Gasolines,Refinery Gas and Refinery Fuel.

Exploration-Crude Oil & Natural Gas

II.1 Area-wise Deployment of Deep Drilling Rigs, Wells & Metreage Drilled by ONGC & OIL

Year	Onshore			Offshore			Total		
	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')	Rigs (Nos.)	Wells (Nos.)	Metreage ('000')
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
				(A) Oil & Natural Gas Corporation Ltd.					
2001-02	75	261	583	19	43	112	94	304	695
2002-03	73	275	580	23	65	194	96	340	774
2003-04	72	232	508	29	89	229	101	321	737
2004-05	72	295	641	29	69	223	101	364	864
2005-06	70	196	433	28	74	242	98	270	675
2006-07	70	199	426	25	66	201	95	265	627
2007-08	71	234	476	25	88	258	96	322	734
2008-09*	76	243	522	36	81	252	112	324	774
				(B) Oil India Limited					
2001-02	16	22	97	-	-	-	16	22	97
2002-03	13	37	130	-	-	-	13	37	130
2003-04	13	33	109	-	-	-	13	33	109
2004-05	13	45	154	-	-	-	13	45	154
2005-06	14	31	125	-	-	-	14	31	125
2006-07	13	32	115	-	-	-	13	32	115
2007-08	13	37	138	-	-	-	13	37	138
2008-09*	16	57	114	-	-	-	16	57	114
				Total (A+B)					
2001-02	91	283	680	19	43	112	110	326	792
2002-03	86	312	710	23	65	194	109	377	904
2003-04	85	265	617	29	89	229	114	354	846
2004-05	85	340	795	29	69	223	114	409	1018
2005-06	84	227	558	28	74	242	112	301	800
2006-07	83	231	541	25	66	201	108	297	742
2007-08	84	271	614	25	88	258	109	359	872
2008-09*	92	300	636	36	81	252	128	381	888

Source: Oil & Natural Gas Corpn. Ltd. and Oil India Ltd..

*: Provisional.

II.2 Exploratory & Development Drilling By ONGC & OIL

Year	Exploratory		Development		Total	
	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')	Wells (Nos.)	Metreage ('000')
1	*2*	*3*	*4*	*5*	*6*	*7*
			(A) Onshore			
2001-02	140	380	143	300	283	680
2002-03	139	332	173	378	312	710
2003-04	107	287	158	330	265	617
2004-05	84	217	180	399	264	616
2005-06	82	236	145	323	227	559
2006-07	74	187	157	354	231	541
2007-08	79	209	192	404	271	613
2008-09*	90	243	210	393	300	636
			(B) Offshore			
2001-02	15	45	28	67	43	112
2002-03	20	58	45	136	65	194
2003-04	30	87	59	142	89	229
2004-05	33	112	36	111	69	223
2005-06	32	106	42	137	74	243
2006-07	22	76	44	125	66	201
2007-08	27	84	61	174	88	258
2008-09*	32	97	49	155	81	252
			Total (A+B)			
2001-02	155	425	171	367	326	792
2002-03	159	390	218	514	377	904
2003-04	137	374	217	472	354	846
2004-05	117	329	216	510	333	839
2005-06	114	342	187	460	301	802
2006-07	96	263	201	479	297	742
2007-08	106	293	253	578	359	871
2008-09*	122	340	259	548	381	888

*: Provisional

Source: Oil & Natural Gas Corpn. Ltd. and Oil India Ltd..

II.3 Status of Wells

(Numbers)

Company / Year #	Oil	Gas	Dry	Under Test	Injection	Others	Total
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
			(A) Oil India Ltd.				
2001	719	104	109	-	46	54	1032
2002	659	95	151	52	47	52	1056
2003	684	95	151	52	47	59	1088
2004	485	118	417	52	102	934	2108
2005	476	125	418	57	103	960	2139
2006	476	125	417	55	103	959	2135
2007	468	129	428	57	104	976	2162
2008	428	114	428	41	100	1089	2200
2009*	438	103	432	65	102	1094	2234
			(B) Oil & Natural Gas Corporation Ltd.				
2001	4072	552	2266	68	690	940	8588
2002	4265	575	2390	70	852	734	8885
2003	4465	596	2450	92	867	737	9207
2004	4620	620	2514	115	885	741	9495
2005	4769	649	2571	133	899	744	9765
2006	4918	678	2628	151	913	747	10035
2007	5055	711	2680	161	936	757	10300
2008	5244	746	2720	185	962	765	10622
2009*	5425	781	2781	203	976	780	10946
			Total (A+B)				
2001	5484	656	2080	68	736	997	10621
2002	5817	670	2846	122	899	789	10942
2003	5842	691	2906	144	914	799	11296
2004	5105	718	2931	167	932	1675	11603
2005	5245	774	2989	190	1002	1704	11904
2006	5394	803	3045	206	1016	1706	12170
2007	5523	840	3108	218	1040	1733	12462
2008	5672	860	3148	226	1062	1854	12822
2009*	5863	884	3213	268	1078	1874	13180

*: Provisional.

#: As on 1st April of each Year

Source: Oil & Natural Gas Corpn. Ltd. and Oil India Ltd..

II. 4 State-wise Geological Surveys Achievements upto 31.3.2009

States	Geological Surveys (Sq. Km)
1	*2*
Andhra Pradesh	53427
A.N. Islands	6860
Arunachal Pradesh	3692
Assam	48073
Bihar (incl. Jharkhand)	4035
Gujarat (Gulf Of Cambay)	60625
Himachal Pradesh	9948
Jammu & Kashmir	22970
Kerala-Karnataka (incl. Goa)	4000
Madhya Pradesh	39221
Chhattisgarh	5920
Manipur	2781
Meghalaya	1911
Mizoram	6134
Nagaland	6971
Rajasthan	46501
Sikkim	720
Tamil Nadu (Incl. Pondicherry)	20003
Tripura	21263
Uttar Pradesh (incl. Uttarakhand)	29797
West Bengal	8808
Total	**403660**

Source: Oil & Natural Gas Corpn. Ltd. and Oil India Ltd.

II. 5 State-wise Achievements of Geophysical Field Parties in India since Inception upto 31.3.2009

Area / State	2D		3D
	LK	GLK	SqK
1	2	3	4
	Oil India Ltd.		
(A) Onshore			
Assam / Arunachal Pradesh		24423.02	6480.63
Rajasthan		12973.00	2485.41
Mizoram		548.62	0.00
Orissa		4277.68	0.00
UP & Uttaranchal		6222.50	0.00
Total(A)		**48444.82**	**8966.04**
(B) Offshore			
Orissa	13842		0
Andaman	201		0
Saurashtra	8767		332
Total(B)	**22810**		332
	Oil & Natural Gas Corporation Ltd.		
		Seismic	
(A) Onshore		**2D**	**3D-SqK**
Andhra Pradesh		39231.80	5488.18
Assam		30717.57	3545.74
Bihar		7973.35	493.97
Gujarat		104681.94	8594.48
Himachal Pradesh		4249.58	0.00
Haryana		1038.00	0.00
Jammu & Kashmir		2563.00	0.00
Madhya Pradesh		10021.12	0.00
Chhattisgarh		202.00	0.00
Meghalaya		204.55	0.00
Mizoram		209.05	0.00
Nagaland		598.06	5.75
Orissa		313.00	0.00
Punjab		4078.00	0.00
Rajasthan		21457.53	808.15
Tamil Nadu		40823.26	7444.44
Tripura		5582.36	710.96
Uttar Pradesh		28072.59	0.00
Uttaranchal		1522.00	0.00
West Bengal		29243.00	596.02
Total(A)		**332781.76**	**27687.69**
(B) Offshore			
West Coast		**472696.86**	75602.53
East Coast		216684.60	68071.02
Total(B)		**689381.46**	**143673.55**
Total ONGC		**1022163.22**	**171361.24**

LK: Line Kilometre. GLK: Ground Line Kilometre. SqK: Square Kilometre.

II.6 Basin-wise / State-wise Achievements of Drilling since Inception upto 31.3.2009

Basin	State / Region	Wells Numbers	Metreage ('000')
1	2	3	4
(A) Onshore			
Cambay	Gujarat	5936	10291.92
Rajasthan	Rajasthan	137	316.37
	Total WRBC	**6073**	**10608.28**
	Nagaland	36	126.84
Upper Assam	Assam	2606	8867.03
	Meghalaya	5	5.90
Assam-Arakan	Arunachal Pradesh	58	137.06
Fold Belt	Mizoram under ERBC	2	5.91
	Total ERBC	**2707**	**9142.74**
Assam-Arakan	Tripura	137	389.26
Foot hills &	West Bengal	31	124.72
Ganga Valley	Bihar	6	29.82
	Orissa	4	8.70
	Total CRBC	**178**	**552.50**
Himalayan Foot-hills,	Himachal Pradesh	12	48.73
Ganga Valley &	Punjab	4	15.54
Vindhyan/Gondwana	Uttar Pradesh	10	36.09
	Madhya Pradesh under NRBC	5	20.71
	Jammu & Kashmir	4	12.02
	Total NRBC	**35**	**133.09**
Krishna-Godavari	Andhra Pradesh	493	1415.84
Cauvery	Tamil Nadu	553	1394.68
	Total SRBC	**1046**	**2810.52**
Total(A)		**10039**	**23247.13**
(B) Offshore			
East Coast	East Coast including KG, Cauvery	219	673.39
West Coast	West Coast including drilling in Orissa, Andaman & Saurashtra	2291	5543.83
Total(B)		**2510**	**6217.22**
Total (A+B)		**12549**	**29464.35**

II.7 State-wise / Basin-wise Oil and Gas Fields in India

(Number)

Company / State	Basin	Oil Fields	Gas Fields	Oil & Gas Fields	Total* Fields
1	2	3	4	5	6
A. Oil & Natural Gas Corporation Ltd.		**18**	**125**	**224**	**367**
a) Onshore					
Gujarat	Cambay	7	7	84	98
Assam	Upper Assam	2	1	31	34
	A&AA	0	4	2	6
Rajasthan	Jodhpur	0	7	0	7
Andhra Pradesh	K.G. Basin	1	36	11	48
Tamil Nadu	Cauvery	1	7	19	27
Tripura	A&AA	0	11	0	11
Nagaland	A&AA	2	0	1	3
b) Offshore					
East Coast	Cauvery Offshore	0	1	3	4
	KG Offshore(Shallow)	0	5	6	11
	KG Offshore(Deep)	0	10	5	15
	Mahanadi	0	3	0	3
	Andaman	0	1	0	1
West Coast	Cambay	0	0	2	2
	Mumbai Offshore	5	28	59	92
	Kutch	0	4	1	5
B. Oil India Ltd.		**1**	**3**	**15**	**19**
Assam	Upper Assam	0	0	14	14
Arunachal Pradesh	Upper Assam	0	0	1	1
Rajasthan	Jaisalmer	0	3	0	3
	Bikaner Nagaur	1	0	0	1
C. Private/JVCs		**28**	**11**	**5**	**44**
a) Onshore					
Gujarat	Cambay	18	4	2	24
Arunachal Pradesh	AAFB	1	0	0	1
Assam	Assam	1	0	0	1
Rajasthan		6	1	0	7
West Bengal	Ranigunj (South)	0	1	0	1
b) Offshore					
East Coast	Cauvery	1	1	0	2
	KG Basin	1	1	1	3
West Coast	Mumbai	0	1	1	2
	Cambay	0	2	1	3
Grand Total		**47**	**139**	**244**	**430**

AAFB : Assam Arakan Fold Belt. A&AA : Assam & Assam Arakan. *: As on 1.4.2009

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd. and Directorate General of Hydrocarbons.

II.8 Reserves of Crude Oil in India@

(Million Tonnes)

Year	Gujarat	Assam($)	Andhra Pradesh	Tamil Nadu	Western(#) Offshore	Eastern(&) Offshore	Grand Total
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
2001	144.08	172.86	3.68	5.78	353.89	51.91	732.20
2002	148.09	173.79	3.77	5.97	348.11	60.82	740.55
2003	146.08	180.85	4.45	7.38	336.69	85.66	761.11
2004	174.83	170.22	4.28	8.01	321.20	60.54	739.08
2005	191.98	171.59	4.71	8.18	366.51	43.07	786.04
2006	204.42	170.59	4.52	7.98	336.44	32.11	756.06
2007	131.62	133.76	4.40	8.09	420.65	26.86	725.38
2008	135.37	173.12	4.37	7.98	424.62	24.66	770.12
2009	134.97	173.74	4.21	7.92	429.96	22.50	773.29

Note:

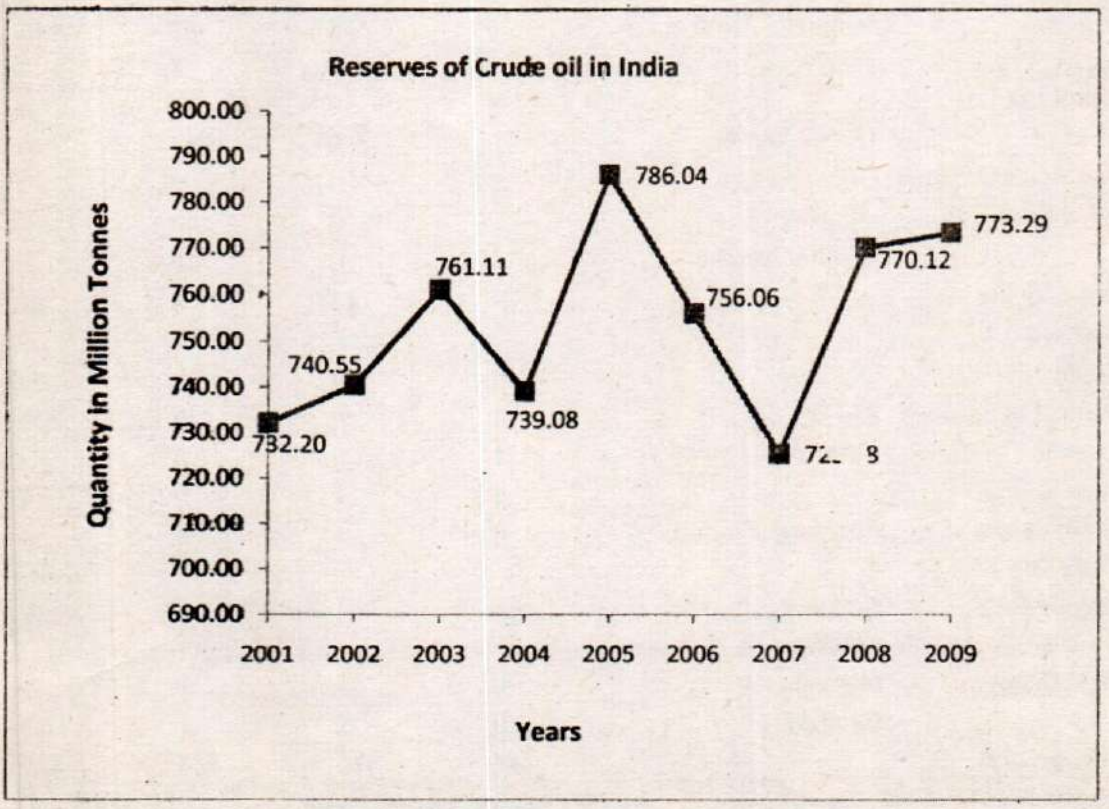
@ : Proved and indicated Balance Recoverable Reserves as on 1st April.

$: Includes Tripura and Arunachal Pradesh reserves of crude oil.

#: Includes Bombay High offshore, Rajasthan and JVC.

&.: Includes JVC/Pvt. Parties.

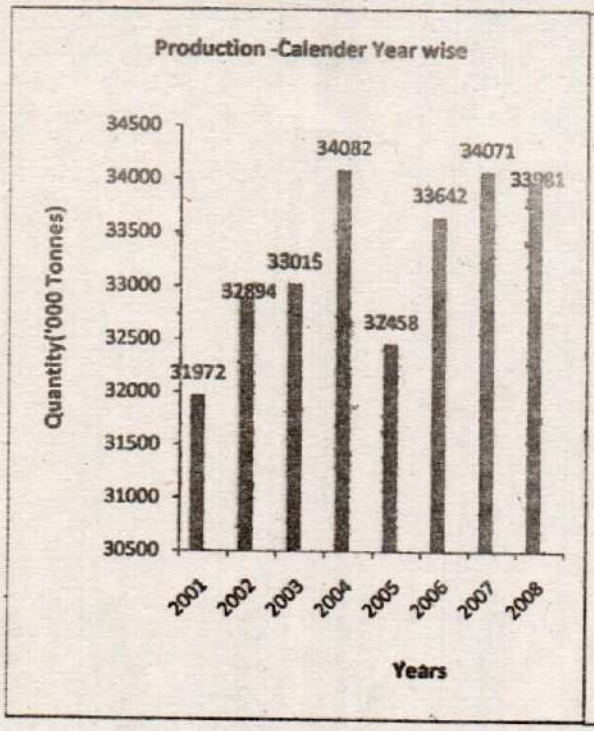
Source: Oil & Natural Gas Corporation/Oil India Limited and Directorate General of Hydrocarbons.

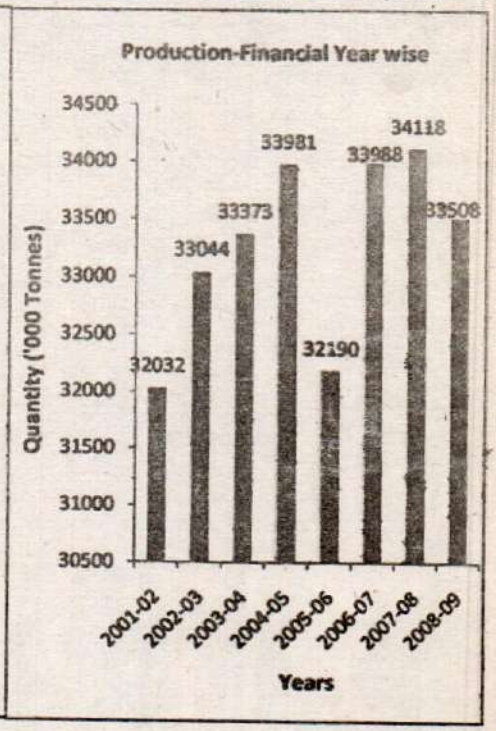


II.9 Company-wise Production of Crude Oil in India

('000 Tonnes)

Year	On Shore				Off Shore		Grand
	OIL	JVC	ONGC	Total	ONGC	JVC	Total
1	2	3	4	5	6	7	8
			A.Canender Years				
2001	3256	72	8612	11940	15991	4041	31972
2002	2987	73	8535	11595	17203	4096	32894
2003	2946	73	8374	11393	17523	4099	33015
2004	3144	74	8326	11544	18267	4271	34082
2005	3280	90	8100	11470	16652	4336	32458
2006	3123	151	8135	11409	17553	4680	33642
2007	3028	185	7929	11142	18117	4812	34071
2008	3450	224	7745	11419	18040	4522	33981
			B.Financial Years				
2001-02	3182	71	8636	11889	16074	4069	32032
2002-03	2951	75	8445	11471	17560	4013	33044
2003-04	3002	74	8380	11456	17677	4240	33373
2004-05	3196	74	8321	11591	18164	4226	33981
2005-06	3234	101	8095	11430	16309	4451	32190
2006-07	3107	161	8058	11326	17993	4669	33988
2007-08	3100	192	7921	11213	18020	4885	34118
2008-09	3468	243	7565	11276	17801	4431	33508



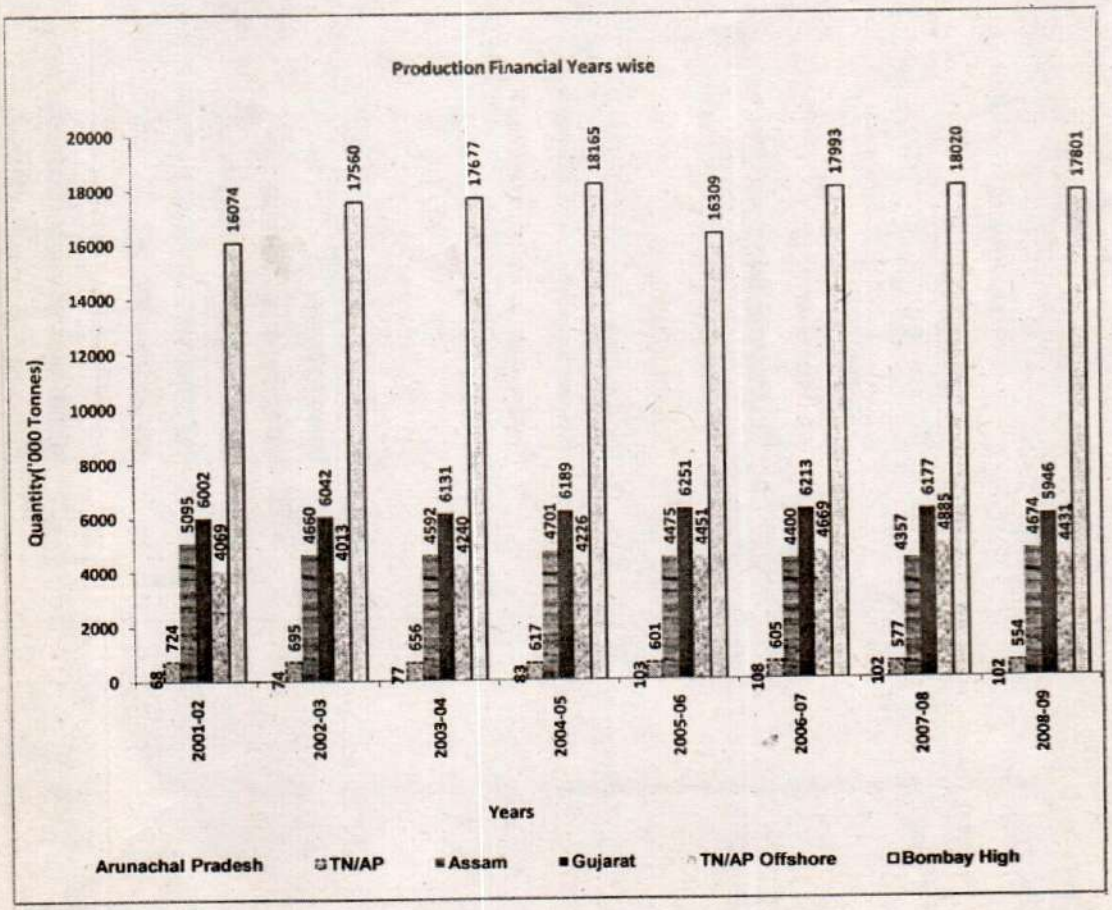


Source: Public Sector Undertakings/Joint Venture Companies

II.10 State-wise Production of Crude Oil in India

('000 Tonnes)

Year	Onshore					Offshore		Grand Total
	Arunachal Pradesh	T. Nadu/ Andhra Pradesh	Assam	Gujarat	Total	T. Nadu/ Andhra Pradesh	Bombay High	
1	2	3	4	5	6	7	8	9
A. Calender Years								
2001	68	746	5150	5976	11940	4041	15991	31972
2002	72	705	4787	6031	11595	4096	17203	32894
2003	75	662	4535	6121	11393	4099	17523	33015
2004	82	617	4679	6166	11544	4271	18267	34082
2005	97	609	4565	6199	11470	4336	16652	32458
2006	110	606	4413	6280	11409	4680	17553	33642
2007	105	582	4287	6168	11142	4812	18117	34071
2008	96	568	4686	6069	11419	4522	18040	33981
B. Financial Years								
2001-02	68	724	5095	6002	11889	4069	16074	32032
2002-03	74	695	4660	6042	11471	4013	17560	33044
2003-04	77	656	4592	6131	11456	4240	17677	33373
2004-05	83	617	4701	6189	11590	4226	18165	33981
2005-06	103	601	4475	6251	11430	4451	16309	32190
2006-07	108	605	4400	6213	11326	4669	17993	33988
2007-08	102	577	4357	6177	11213	4885	18020	34118
2008-09	102	554	4674	5946	11276	4431	17801	33508



II.11 Reserves of Natural Gas in India@

(Billion Cubic Metres)

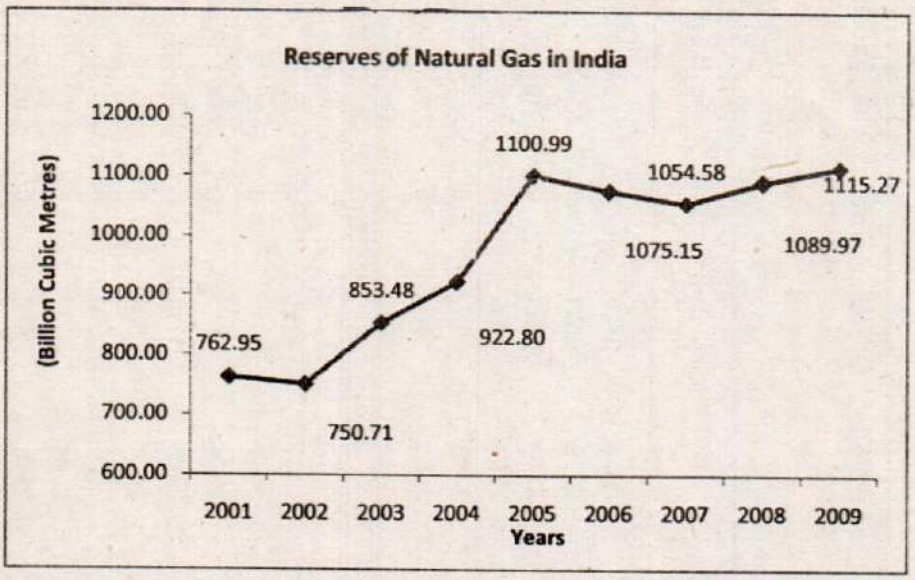
Year	Gujarat	Assam(1)	Andhra Pradesh	Tamil Nadu	Western(2) Offshore	Eastern(3) Offshore	Grand Total
1	2	3	4	5	6	7	8
2001	83.51	156.29	39.65	21.95	442.58	18.97	762.95
2002	91.79	160.96	40.36	22.05	410.37	25.18	750.71
2003	96.22	164.37	42.07	24.76	392.66	133.40	853.48
2004	95.87	172.95	41.75	28.00	394.13	190.10	922.80
2005	93.11	174.94	42.28	29.57	374.69	386.40	1100.99
2006	84.96	174.68	41.46	28.78	344.44	400.83	1075.15
2007	76.72	119.74	40.92	28.72	369.36	419.12	1054.58
2008	73.75	112.34	40.33	27.77	392.95	442.83	1089.97
2009	77.22	131.45	39.55	26.95	414.65	425.44	1115.27

Note:

@ : Proved and indicated Balance Recoverable Reserves as on 1st April.

1. Includes Nagaland, Tripura and Arunachal Pradesh reserves of natural gas.
2. Includes Bombay High offshore, Rajasthan and Madhya Pradesh(Coal Bed Methane).
3. Includes West Bengal (CBM).

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd. and Directorate General of Hydrocarbons.



II.12 State-wise Gross Production of Natural Gas in India

(Million Cubic Metres)

Year	Onshore									Offshore			Grand Total
	Assam	Gujarat	West Bengal	Rajas-than	Tamil Nadu	Andhra Pradesh	Tripura	Arunachal Pradesh	Total	Eastern Offshore	Bombay High/ Western Offshore	Total	
Calender Years													
2001	2065	3245	0	144	329	1746	425	3 $	7957	459	21213	21672	29629
2002	2032	3486	0	116	390	2023	418	6 $	8471	829	21442	22271	30742
2003	2210	3537	0	171	593	1959	506	9 $	8985	892	22329	23221	32206
2004	2231	3521	0	191	661	1747	493	40	8884	1041	21750	22791	31675
2005	2392	3802	0	239	841	1679	502	44	9499	1008	21492	22500	31999
2006	2483	3547	0	244	1091	1560	500	41	9466	878	21444	22322	31788
2007	2581	2968	9	253	1165	1548	530	31	9085	892	22430	23322	32407
2008*	2616	2679	13	227	1236	1555	556	29	8911	897	23252	24150	33060
Financial Years													
2001-02	1992	3280	0	101	349	1797	416	32	7967	574	21173	21747	29714
2002-03	2047	3531	0	162	466	2038	446	36	8726	831	21832	22663	31389
2003-04	2204	3517	0	168	605	1927	508	44	8973	923	22066	22989	31962
2004-05	2248	3711	0	213	678	1707	496	40	9093	1062	21608	22670	31763
2005-06	2408	3831	0	242	906	1663	480	48	9578	980	21644	22624	32202
2006-07	2526	3294	0	242	1130	1525	520	35	9272	857	21618	22475	31747
2007-08	2598	2931	15	255	1169	1567	534	30	9099	892	22426	23318	32417
2008-09*	2573	2605	20	216	1242	1524	553	30	8763	866	23216	24082	32845

*:Provisional.

$: Oil India Ltd.'s share is included in Assam.

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd. and Directorate General of Hydrocarbons.

II.13 State-wise Gross and Net Production of Natural Gas in India

(Million cubic metres)

Period	Gross Prodn.	Sales	Flarred	Net availability$
1	2	3	4	5
	Onshore			
Gujarat				
2001-02	3280	2396	401	2879
2002-03	3531	2829	322	3209
2003-04	3517	2945	128	3389
2004-05	3711	3071	48	3663
2005-06	3831	3056	21	3810
2006-07	3294	2713	17	3277
2007-08	2931	2352	18	2913
2008-09*	2605	1984	32	2573
Rajasthan				
2001-02	100	95	0	100
2002-03	162	158	0	162
2003-04	168	163	2	166
2004-05	213	208	2	211
2005-06	242	238	0	242
2006-07	242	237	1	241
2007-08	255	248	3	252
2008-09*	216	210	2	214
Assam / Arunachal Pradesh				
2001-02	2025	1326	179	1846
2002-03	2083	1363	185	1898
2003-04	2248	1506	201	2047
2004-05	2288	1521	229	2059
2005-06	2455	1714	205	2250
2006-07	2561	1808	232	2329
2007-08	2628	1875	214	2414
2008-09*	2603	1860	194	2409
Tripura				
2001-02	416	415	0	416
2002-03	446	445	0	446
2003-04	508	507	0	508
2004-05	496	496	0	496
2005-06	480	479	0	480
2006-07	520	519	0	520
2007-08	534	533	0	534
2008-09*	553	552	0	553
Tamil Nadu				
2001-02	349	249	98	251
2002-03	466	377	88	378
2003-04	605	535	68	537
2004-05	678	627	49	629
2005-06	906	866	39	867
2006-07	1130	1111	17	1113
2007-08	1169	1151	17	1152
2008-09*	1242	1230	10	1232

Cont...

II.13 State-wise Gross and Net Production of Natural Gas in India

(Million cubic metres)

Period	Gross Prodn.	Sales	Flarred	Net availability$
1	2	3	4	5
Andhra Pradesh				
2001-02	1797	1770	18	1779
2002-03	2038	2009	18	2020
2003-04	1927	1903	13	1914
2004-05	1707	1686	10	1697
2005-06	1663	1646	8	1655
2006-07	1525	1507	9	1516
2007-08	1567	1548	10	1557
2008-09*	1524	1508	7	1517
West Bengal				
2007-08	14.9	0	14.4	0.5
2008-09*	20	1.5	16.8	3.2
	Total Onshore			
2001-02	7967	6251	696	7271
2002-03	9726	7181	613	8113
2003-04	8973	7559	412	8561
2004-05	9093	7609	338	8755
2005-06	9578	7999	273	9305
2006-07	9272	7895	276	8996
2007-08	9099	7707	262	8822
2008-09*	8763	7345	262	8501
	Offshore			
2001-02	21747	17940	981	20766
2002-03	22663	18690	812	21851
2003-04	22989	19151	644	22345
2004-05	22670	18896	650	22020
2005-06	22624	18859	604	22020
2006-07	22475	18521	680	21795
2007-08	23318	19267	662	22656
2008-09*	24082	19721	837	23245
	Grand Total			
2001-02	29714	24191	1677	28037
2002-03	31389	25871	1425	29964
2003-04	31962	26710	1056	30906
2004-05	31763	26505	988	30775
2005-06	32202	26858	877	31325
2006-07	31747	26416	956	30791
2007-08	32417	26974	924	31478
2008-09*	32845	27066	1099	31746

$: Includes internal consumption

*: Provisional.

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd. and Directorate General of Hydrocarbons.

II.14 State-wise Utilisation of Natural Gas in India

(Million Cubic Metres)

State / Area	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
Onshore								
Gujarat/Rajasthan	2979	3371	3555	3873	4052	3518	3165	2787
Assam / Arunachal Pradesh	1846	1898	2047	2059	2251	2329	2414	2409
Tripura / West Bengal	416	446	508	497	480	520	534	556
Andhra Pradesh	1779	2020	1914	1697	1655	1516	1557	1517
Tamil Nadu	251	378	537	629	867	1113	1152	1232
Total Onshore	**7271**	**8113**	**8561**	**8755**	**9305**	**8996**	**8822**	**8501**
Offshore								
Mumbai High	17439	17643	17235	16769	16351	16011	15879	16023
JVC	3327	4208	5110	5251	5669	5784	6777	7222
Total Offshore	**20766**	**21851**	**22345**	**22020**	**22020**	**21795**	**22656**	**23245**
Grand Total	**28037**	**29964**	**30906**	**30775**	**31325**	**30791**	**31478**	**31746**

II.15 Industry-wise Offtakes of Natural Gas in India

(Million Cubic Metres)

Industry	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
Energy Purposes								
Power Generation	9214	10510	11478	12099	11878	11963	12037	12603
Industrial Fuel	2979	2939	3099	3569	3780	3205	3323	5912
Tea Plantation	147	119	142	142	151	170	160	154
Domestic Fuel	485	654	93	343	75	443	38	102
Captive Use / LPG Shrinkage	5339	5409	4865	4944	5048	5034	1804	1885
Others	70	136	1263	231	1120	40	1324	1535
Total	**18234**	**19767**	**20940**	**21328**	**22052**	**20855**	**18686**	**22191**
Non-Energy Purposes								
Fertilisers	7957	7955	7889	8173	7762	8497	9823	9082
Petro-Chemicals	909	1027	1128	1236	1175	1377	1432	1105
Others	937	1215	949	38	36	639	638	611
Total	**9803**	**10197**	**9966**	**9447**	**8973**	**10513**	**11893**	**10798**
Grand Total	**28037**	**29964**	**30906**	**30775**	**31025**	**31368**	**30579**	**32989**

*: Provisional.

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd., Directorate General of Hydrocarbons and GAIL(India) Ltd..

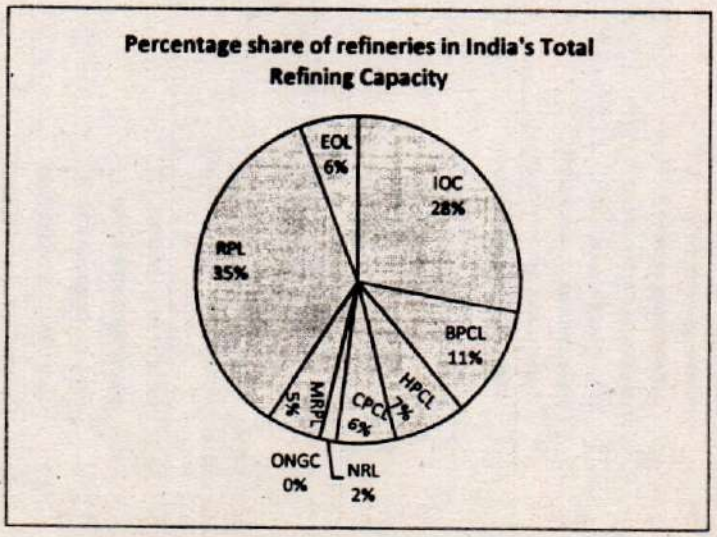
Refining, Transportation & Marketing

III.1 Petroleum Refining Capacity in India

(Million Tonnes per annum)

Refinery	Year of Commissioning	Installed Capacity as on 1.4.2009
1	2	3
(a) Public Sector Refineries		**105.47**
I. IOC Refineries		**49.70**
IOC, Digboi	1901	0.65
IOC, Guwahati	1962	1.00
IOC, Barauni	1964	6.00
IOC, Koyali	1965	13.70
IOC, Haldia	1974	6.00
IOC, Mathura	1982	8.00
IOC, Panipat	1998	12.00
IOC, Bongaigaon	1979	2.35
II. BPCL Refineries		**19.50**
BPCL, Mumbai	1955	12.00
BPCL, Kochi	1966	7.50
III. HPCL Refineries		**13.00**
HPCL, Mumbai	1954	5.50
HPCL, Visakh	1957	7.50
IV. CPCL Refineries		**10.50**
CPCL, Manali	1969	9.50
CPCL, Narimanam	1993	1.00
V. NRL, Numaligarh	1999	3.00
VI. ONGC, Tatipaka	2002	0.078
VII. MRPL, Mangalore	1996	9.69
(b) Private Refineries		**72.50**
I. RPL Refineries		**62.00**
RPL, Jamnagar	1999	33.00
RPL(SEZ), Jamnagar *	2008	29.00
III. Essar Oil Ltd., Vadinar	2006	10.50
Total (a+b)		**177.97**

*: RPL(SEZ), Jamnagar commissioned on 25.12.2008 & started production from January, 2009.



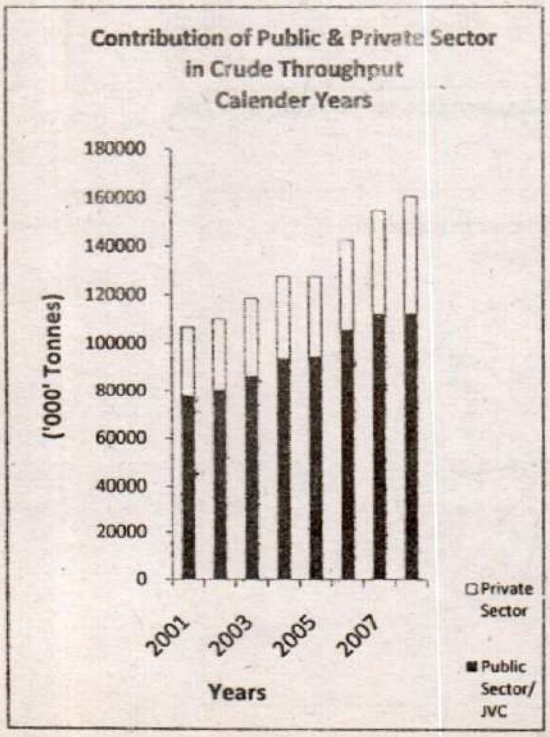
III.2 Refinery Crude Throughput and Production of Petroleum Products

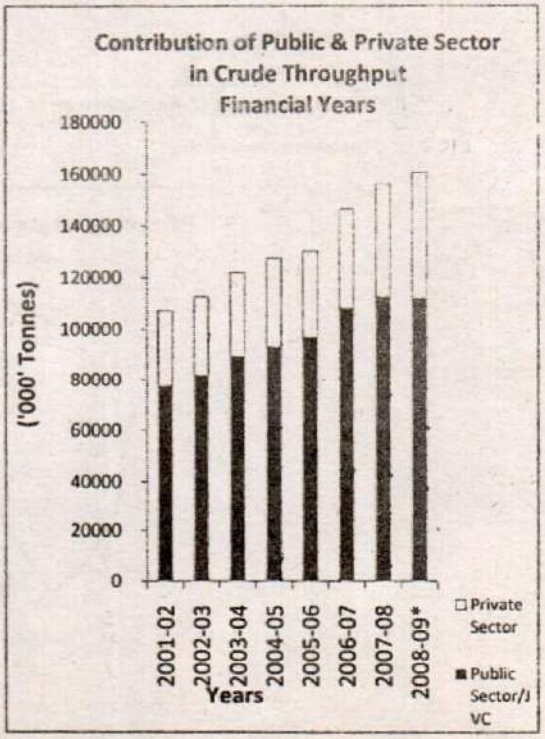
(000 Tonnes)

Year	Crude Throughput#			Production of Petroleum Products#		
	Public Sector/JVC	Private Sector	Total	Public Sector/JVC	Private Sector	Total
1	2	3	4	5	6	7
			(Calendar Years)			
2001	77818	28926	106744	72595	26382	98977
2002	80469	29679	110148	74914	26926	101840
2003	86350	32161	118511	80405	29694	110099
2004	93619	34136	127755	87008	31835	118843
2005	94489	33061	127550	87551	29694	117245
2006	105690	36727	142417	97477	34172	131649
2007	112179	42516	154695	103701	39699	143400
2008*	112120	48327	160447	103748	46501	150249
			(Financial Years)			
2001-02	77620	29654	107274	72462	27542	100004
2002-03	82015	30544	112559	76236	27904	104140
2003-04	89495	32345	121840	83397	30066	113463
2004-05	93107	34309	127416	86674	31905	118579
2005-06	96946	33163	130109	89793	29957	119750
2006-07	108173	38378	146551	99714	35546	135260
2007-08	112541	43562	156103	104008	40922	144930
2008-09*	112222	48550	160772	103933	46583	150516

*: Provisional.

#: Excludes crude throughput and production from RPL(SEZ).





III.3 Refinery-wise Crude Thoughput and Production of Petroleum Products

(000 Tonnes)

Refinery	Crude Throughput#								Production of Petroleum Products#							
	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
IOC, Digbol	653	581	602	651	615	586	564	623	640	577	584	636	605	567	537	605
BPCL, Mumbai	8744	8711	8757	9138	10298	12030	12746	12262	8279	8221	8259	8598	9627	11234	11884	11437
HPCL, Mumbai	5641	6078	6108	6118	6249	7419	7409	6652	5229	5660	5707	5725	5817	6981	6908	6210
HPCL, Vishakhapatnam	6706	6851	7591	8121	7980	9377	9409	9155	6334	6386	7145	7636	7515	8782	8896	8654
IOC, Guwahati	656	458	891	1002	864	839	920	1076	578	390	739	868	750	726	789	914
IOC, Barauni	2876	2994	4304	5082	5553	5469	5634	5940	2625	2637	3815	4562	5016	4931	5083	5362
IOC, Koyali	11697	12434	12758	11698	11543	12953	13714	13852	11028	11734	12029	11041	10839	12142	12886	13059
IOC, Haldia	4026	4513	4518	5418	5502	5836	5715	6042	3601	4031	4112	4964	4988	5282	5199	5531
IOC, Mathura	8031	8207	8248	6387	7938	8883	8033	8601	7780	7880	7932	6145	7463	8425	7616	8164
IOC, Panipat	5822	6101	6338	6390	6507	9435	12821	13070	5323	5561	5818	5826	5780	8016	11272	11680
BPCL(KRL), Kochi	6797	7580	7854	7924	6939	7742	8134	7739	6398	7063	7419	7387	6456	7237	7687	7192
CPCL(MRL), Manali	6123	6176	6387	8181	9680	9784	9802	9718	5676	5658	5827	7397	8742	8841	8869	8853
CPCL(MRL), Narimanam	566	643	653	742	682	618	464	418	549	631	645	733	671	609	449	398
BRPL, Assam	1475	1463	2126	2311	2356	2067	2020	2163	1314	1352	1963	2171	2246	1932	1888	2022
NRL, Numaligarh	2307	1879	2200	2042	2133	2504	2568	2251	2052	1665	1961	1834	1918	2227	2278	1992
MRPL, Mangalore	5487	7253	10069	11809	12014	12536	12525	12577	5043	6699	9352	11059	11268	11689	11706	11778
ONGC, Tatipaka	13	93	91	93	93	94	63	84	13	91	90	92	92	93	62	82
RPL, Jamnagar	29654	30544	32345	34309	33163	36616	36931	35636	27542	27904	30066	31905	29957	34174	34307	33010
EOL, Vadinar	-	-	-	-	-	1763	6631	12913	-	-	-	-	-	1372	6614	13573
Total	**107274**	**112559**	**121840**	**127416**	**130109**	**146551**	**156103**	**160772**	**100004**	**104140**	**113463**	**118579**	**119750**	**135260**	**144930**	**150516**

*: Provisional.

#: Excludes crude throughput and production from RPL(SEZ).

III.4(a) Production of Petroleum Products

Calender Years

('000' Tonne)

PRODUCTS	Production								% Variation	
	2001	2002	2003	2004	2005	2006	2007	2008	2007/2006	2008/2007
1	2	3	4	5	6	7	8	9	10	11
(a) From Crude Oil										
1. Light Distillates	**25856**	**27642**	**31098**	**32790**	**31569**	**37443**	**39658**	**40599**	**5.9**	**2.4**
LPG	4530	4831	5185	5585	5298	6355	6578	7072	3.5	7.5
Motor Spirit	9232	10133	10906	11062	10392	12137	13634	16002	12.3	17.4
Naphtha	9267	9363	10782	13592	14316	16568	16714	15063	0.9	-9.9
Others	2827	3315	4225	2551	1563	2383	2732	2462	14.6	-9.9
2. Middle Distillates	**54064**	**54872**	**58315**	**63169**	**62899**	**69317**	**75901**	**79795**	**9.5**	**5.1**
Kerosene	9514	10062	9906	9854	8849	8721	8022	7902	-8.0	-1.5
ATF	2610	2702	4180	4890	5866	7305	9104	8440	24.6	-7.3
HSD	39785	39490	41966	46244	46455	51908	57311	62293	10.4	8.7
LDO	1578	2090	1705	1621	1110	767	704	659	-8.2	-6.4
Others	577	528	558	560	619	616	760	501	23.4	-34.1
3. Heavy Ends	**19057**	**19326**	**20686**	**22884**	**22777**	**24889**	**27841**	**29855**	**11.9**	**7.2**
Furnace Oil	7435	7602	8107	10297	10241	11951	12519	14428	4.8	15.2
LSHS/HHS/RFO	4752	4644	4981	4245	4123	3365	3244	3090	-3.6	-4.7
Total Fuel Oils	12187	12246	12788	14542	14364	15316	15763	17518	2.9	11.1
Lube Oils	696	645	667	663	638	811	865	908	6.7	5.0
Bitumen	2512	2847	3268	3404	3449	3783	4358	4577	15.2	5.0
Petroleum Coke	2845	2522	2690	3130	3117	3590	4092	4252	14.0	3.9
Paraffin Wax	44	42	51	64	65	60	63	70	5.0	11.1
Other Waxes	45	6	3	4	6	3	4	2	33.3	-50.0
Total Waxes	89	48	54	68	71	63	67	72	6.3	7.5
Others	728	1018	1233	1077	1138	1326	2696	2528	103.3	-6.2
4. Total Production	**98977**	**101840**	**110099**	**118843**	**117245**	**131649**	**143400**	**150249**	**8.9**	**4.8**
5. Crude Throughput	**106744**	**110148**	**118511**	**127755**	**127550**	**142417**	**154695**	**160447**	**8.6**	**3.7**
(b) From Natural Gas										
LPG	2116	2350	2366	2256	2150	2134	2066	2154	-3.2	4.3

*: Provisional.

Pattern of Production (Percentage)

PRODUCTS	2001	2002	2003	2004	2005	2006	2007	2008*
Light Distillates	24.2	25.1	26.2	25.7	24.8	26.3	25.6	25.3
Middle Distillates	50.6	49.8	49.2	49.4	49.3	48.7	49.1	49.7
Total Fuel Oils	11.4	11.1	10.8	11.4	11.3	10.8	10.2	10.9
Lubes	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6
Bitumen	2.4	2.6	2.8	2.7	2.7	2.7	2.8	2.9
Others	3.4	3.3	3.4	3.3	3.4	3.5	4.4	4.3
Total Production	**92.7**	**92.5**	**92.9**	**93.0**	**91.9**	**92.4**	**92.7**	**93.6**
RBF & Losses / inventories	7.3	7.5	7.1	7.0	8.1	7.6	7.3	6.4
Crude Throughput	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

*: Provisional.

III.4(b) Production of Petroleum Products

Financial Years

('000' Tonne)

Products	Production								% Variation	
	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*	2007-08/2006-07	2008-09/2007-08
1	2	3	4	5	6	7	8	9	10	11
(a) From Crude Oil										
1. Light Distillates	**26539**	**28619**	**31971**	**32865**	**32427**	**38104**	**40111**	**40222**	**5.3**	**0.3**
LPG	4778	4903	5348	5570	5525	6315	6732	6996	6.6	3.9
Motor Spirit	9699	10361	10999	11057	10502	12539	14167	16020	13.0	13.1
Naphtha	9180	9650	11317	14100	14509	16660	16440	14826	-1.3	-9.8
Others	2882	3705	4307	2138	1891	2590	2772	2380	7.0	-14.1
2. Middle Distillates	**54409**	**55937**	**60018**	**62509**	**64432**	**71225**	**76649**	**80309**	**7.6**	**4.8**
Kerosene	9681	10028	10187	9298	9078	8491	7794	8223	-8.2	5.5
ATF	2595	3053	4289	5201	6196	7805	9107	8071	16.7	-11.4
HSD	39899	40207	43316	45903	47572	53465	58361	62889	9.2	7.8
LDO	1703	2079	1659	1546	923	803	671	606	-16.4	-9.7
Others	531	570	567	561	663	661	716	520	8.3	-27.4
3. Heavy Ends	**19056**	**19584**	**21474**	**23205**	**22891**	**25931**	**28170**	**29985**	**8.6**	**6.4**
Furnace Oil	7488	7529	8737	10560	10320	12325	12638	14749	2.5	16.7
LSHS/HHS/RFO	4739	4638	4635	4410	3985	3372	3166	2935	-6.1	-7.3
Total Fuel Oils	12227	12167	13372	14970	14305	15697	15804	17684	0.7	11.9
Lube Oils	651	684	666	646	677	825	881	874	6.8	-0.8
Bitumen	2561	2941	3397	3349	3576	3891	4507	4713	15.8	4.6
Petroleum Coke	2784	2659	2743	3162	3182	3779	4129	4241	9.3	2.7
Paraffin Wax	45	42	53	64	63	63	64	69	1.6	7.8
Other Waxes	37	3	0	4	3	5	7	5	40.0	-28.6
Total Waxes	82	45	53	68	66	68	71	74	4.4	4.2
Others	751	1088	1243	1010	1085	1671	2778	2399	66.2	-13.6
4. Total Production#	**100004**	**104140**	**113463**	**118579**	**119750**	**135260**	**144930**	**150516**	**7.1**	**3.9**
5. Crude Throughput#	**107274**	**112559**	**121840**	**127416**	**130109**	**146551**	**156103**	**160772**	**6.5**	**3.0**
(b) From Natural Gas										
LPG	2205	2370	2320	2240	2185	2093	2060	2162	-1.6	5.0

*: Provisional.

#: Excludes crude throughput and production from RPL(SEZ).

Pattern of Production (Percentage)

PRODUCTS	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
Light Distillates	24.7	25.4	26.2	25.8	24.9	26.0	25.7	25.0
Middle Distillates	50.7	49.7	49.3	49.1	49.5	48.6	49.1	50.0
Total Fuel Oils	11.4	10.8	11.0	11.7	11.0	10.7	10.1	11.0
Lubes	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5
Bitumen	2.4	2.6	2.8	2.6	2.7	2.7	2.9	2.9
Others	3.4	3.4	3.3	3.3	3.3	3.8	4.5	4.2
Total Production	93.2	92.5	93.1	93.1	92.0	92.3	92.8	93.6
RBF & Losses / inventories	6.8	7.5	6.9	6.9	8.0	7.7	7.2	6.4
Crude Throughput	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*: Provisional.

III.5 Crude Oil, Natural Gas and Product Pipelines in India

Type of pipeline / Owner	Length (in Kms.) as on 1st April							
	2002	2003	2004	2005	2006	2007	2008	2009
Crude Pipelines (Onshore)								
ONGC	9210	9593	10022	10297	10671	11029	11378	11949
OIL	1538	1538	1538	1418	1418	1418	1418	1418
IOC	2640	2788	2788	2788	2788	3962	3962	4341
HPCL	11	11	11	13	13	11	11	11
Pvt. / JVC	16	16	17	19	19	21	47	47
Subtotal	**13415**	**13946**	**14376**	**14535**	**14909**	**16441**	**16816**	**17766**
Crude Pipelines (Offshore)								
ONGC	2080	2115	2137	2181	2475	2569	2588	2673
IOC	25	25	25	25	25	25	25	25
Pvt. / JVC	142	174	179	179	179	200	200	200
Subtotal	**2247**	**2314**	**2341**	**2385**	**2679**	**2794**	**2813**	**2898**
Gas Pipelines (Onshore)								
ONGC	3198	3369	3519	3689	3892	4098	4284	4461
GAIL	4436	4571	5167	5471	5599	6196	7001	7179
BPCL	2	2	2	2	26	26	26	2
Pvt. / JVC	5	19	30	35	35	35	41	41
Subtotal	**7641**	**7961**	**8718**	**9197**	**9552**	**10355**	**11352**	**11683**
Gas Pipelines (Offshore)								
ONGC	2502	2512	2512	2517	2783	2863	2863	3022
Pvt. / JVC	115	115	123	123	132	137	259	411
Subtotal	**2617**	**2627**	**2635**	**2640**	**2915**	**3000**	**3122**	**3433**
Product Pipelines (Onshore)								
IOC(AOD)	75	75	75	75	75	75	75	75
IOC	4186	4687	4842	4842	6063	5211	5211	5349
BPCL	576	613	971	971	971	1745	1745	1745
HPCL	732	732	732	732	732	2130	2130	2130
ONGC	1795	1940	2041	2132	2239	2396	2606	2731
GAIL	1233	1233	1495	1927	1927	1927	1927	1964
Petronet India Limited	392	753	753	753	753	753	753	753
Subtotal	**8597**	**9280**	**10156**	**10679**	**12007**	**13484**	**13694**	**13994**
Product Pipelines (Offshore)								
BPCL	3	3	3	3	3	3	3	3
ONGC	636	668	668	678	697	730	752	762
Subtotal	**639**	**671**	**671**	**681**	**700**	**733**	**755**	**765**
Grand Total	**35156**	**36799**	**38897**	**40117**	**42762**	**46807**	**48552**	**50539**

III.6 Tonnage of Indian Tankers Fleet

	2001	2002	2003	2004	2005	2006	2007	2008	2009
A. Coastal Trade (Oil Tankers)									
1. Product Carriers									
No. of tankers	10	12	12	12	11	9	10	12	14
DWT ('000' tonnes)	83.2	90.1	61.0	61.0	54.9	40.5	42.6	44.7	66.7
2. Crude Oil Carriers									
No. of tankers	2	2	2	2	2	2	2	2	2
DWT ('000' tonnes)	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
3. Offshore Supply Vessels									
No. of tankers	69	70	73	76	80	83	89	96	100
DWT ('000' tonnes)	85.4	85.6	95.8	99.1	99.7	100.2	105.8	118.4	122.6
4. Specialised vessels for offshore									
No. of tankers	27	28	31	32	32	35	35	36	36
DWT ('000' tonnes)	59.2	59.2	53.2	54.1	54.1	47.4	47.4	47.4	49.3
Total (1+2+3+4)									
No. of tankers	108	112	118	122	125	129	136	146	152
DWT ('000' tonnes)	310.0	317.1	292.2	296.4	290.9	270.3	278.0	292.7	320.8
B. Overseas Trade (Oil Tankers)									
5. Ore Oil Bulk Carriers									
No. of tankers	4	3	2	2	2	2	2	2	2
DWT ('000' tonnes)	355.1	231.6	169.3	169.3	169.3	169.3	169.3	169.3	169.3
6. Crude Oil Carriers									
No. of tankers	34	34	36	46	49	47	54	53	54
DWT ('000' tonnes)	3455.7	3474.3	3592.1	4744.4	5735.4	5379.9	5730.9	5273.8	5264.1
7. Product Carriers									
No. of tankers	45	45	40	45	47	52	47	48	50
DWT ('000' tonnes)	1656.5	1642.3	1493.0	1998.0	2471.9	2985.5	2684.8	2940.3	3302.9
8. LPG Carriers									
No. of tankers	6	6	7	8	11	14	15	16	14
DWT ('000' tonnes)	138.1	138.1	162.6	183.2	250.7	341.9	385.5	442.3	395.8
Total Overseas (5+6+7+8)									
No. of tankers	89	88	85	101	109	115	118	119	120
DWT ('000' tonnes)	5605.4	5486.3	5417.0	7094.9	8627.3	8876.6	8970.5	8825.7	9132.1
Total Oil Tankers (A+B)									
No. of tankers	197	200	203	223	234	244	254	265	272
DWT ('000' tonnes)	5915.4	5803.4	5709.2	7391.3	8918.2	9146.9	9248.5	9118.4	9452.9

Note: As on 30th June in 2001 and 31st March from 2002 and onwards.

DWT: Dead Weight Tonnage.

Source: Directorate General of Shipping, Mumbai.

III.7 Indian Tonnage as on 31.3.2009

(Tonnes)

	Owner of the ship	Gross Registered Tonnage	Dead Weight Tonnage
	Coastal Trade		
	Tankers (Product Carriers)		
1	Associated Maritime Pvt. Ltd.	1090	2052
2	Atlantic Shipping Pvt. Ltd.	2814	3617
3	K.Raghu Pathi Rao(Raghu)	65	0
4	M.Gangadhar Rao	36	0
5	Blue Ocean Sea Transport Ltd.	965	1546
6	Castle Ships Pvt. Ltd.	1332	2127
7	Coast Line Services (India) (P) Ltd.	493	872
8	Jaisu Shipping (P) Ltd.	1873	2808
9	Pratibha Shipping Co. Ltd.	30565	28610
10	Reliance Industries Ltd.	14960	23497
11	Vamsee Shipping Carrier Pvt. Ltd.	496	1179
12	Viking Lighterage & Cargo Handlers P. Ltd.	306	415
	Total	**54995**	**66723**
	Tankers (Crude Oil Carriers)		
1	The Shipping Corporation of India Ltd.	50080	82246
	Total	**50080**	**82246**
	Offshore Supply Vessels		
1	Admn. of UT of Lakshadweep	738	960
2	Albatross Shipping Agencies	273	214
3	ARC Marine Pvt. Ltd.	157	66
4	Chandra Ship Management Pvt. Ltd.	285	0
5	Damodar Marine Services Pvt. Ltd.	487	737
6	Dolphin Offshore	1371	763
7	ELCOME Surveys Pvt. Ltd.	275	290
8	EPSOM Shipping (I) Pvt. Ltd.	1791	1451
9	GAL Offshore Shipping	640	0
10	Garware Offshore	2601	3180
11	Great Offshore Ltd.	13428	17194
12	Greatship (India) Ltd.	1596	2416
13	HAL Offshore Ltd.	1085	832
14	Hede Ferominas (P) Ltd.	1332	1686
15	ITT Lines Pvt. Ltd.	1042	1207
16	Jayesh Shipping P.Ltd.	69	0
17	Hind Offshore Pvt. Ltd.	817	677
18	Kei-rsos Maritime Ltd.	2779	2914
19	Maju Marine Services	322	500
20	Oil and Natural Gas Commission	37065	46428
21	Prince Marine Transport Services	1136	1273
22	Raj Shipping Agencies Ltd.	3104	3504
23	Synergy Offshore Services	189	125
24	Samson Maritime Ltd.	5887	5443
25	Tag Sealogistics Ltd.	3939	4952
26	Shipping Corporation of India Ltd.	13100	17912
27	Tidewater (India) Pvt. Ltd.	1397	3250
28	Varun Shipping Co. Ltd.	3644	3501
29	Tarun Shipping & Industries Ltd.	989	1086
30	Visakha Geo Marine	92	0
	Total	**101630**	**122561**

Cont'd...

III.7 Indian Tonnage as on 31.3.2009

(Tonnes)

	Owner of the ship	Gross Registered Tonnage	Dead Weight Tonnage
	Specialised Vessels for Offshore Services		
1	Elcome Surveys	392	469
2	Hind Offshore Pvt. Ltd.	969	0
3	Jaisu Shipping Co.(P) Ltd.	99	99
4	National Institute of Ocean Technology	4862	0
5	Oil and Natural Gas Commission	47426	27949
6	Procyon Offshore Services Pvt. Ltd.	405	436
7	Raj Shipping Agencies Ltd.	715	915
8	Reliance Industries Ltd.	2421	3104
9	Safe & Sure Marine Pvt. Ltd.	490	826
10	Samson Maritime	1674	1810
11	Sealion Sparkle Maritime Services Ltd.	136	14
12	South East Asia Marine Engg. & Construction Ltd.	11211	6135
13	The Council of Scientific & Industrial Research	2661	800
14	The Department of Ocean Development	4582	1605
15	The Director General of Lighthouses & Lightships	5823	3083
16	The Geological Survey of India	2942	2005
	Total	**86808**	**49250**
	Overseas Trade		
	Ore Oil Bulk Carriers		
1	The Shipping Corporation of India Ltd.	94955	169257
	Total	**94955**	**169257**
	Oil Tankers (Crude Carriers)		
1	Chambal Fertilisers & Chemicals	227714	412242
2	Essar Shipping Ports & Logistics Ltd.	149274	281396
3	Great Eastern Shipping Co.Ltd.	483205	868692
4	Mercator Lines Ltd.	211592	389872
5	Pratibha Shipping Co. Ltd.	126088	209658
6	Peninsular Tankers Pvt. Ltd., Mumbai	8228	15037
7	Seven Islands Shipping Ltd.	8918	14465
8	The Shipping Corporation of India Ltd.	1521663	2753057
9	Varun Shipping Co. Ltd.	171506	319682
	Total	**2908188**	**5264101**
	Oil Tankers (Product Carriers)		
1	ASM Shipping	18101	30990
2	Castle Ships Pvt. Ltd.	4473	7335
3	Great Eastern Shipping Co.Ltd.	752111	1309328
4	Mercator Lines	417964	745090
5	Pratibha Shipping Ltd.	45172	76881
6	Sanmar Shipping Ltd.	59867	106610
7	Seven Islands Shipping	4509	6756
8	Shipping Corpn. Of India Ltd.	551564	1002647
9	Varun Shipping Co. Ltd.	4473	7314
10	West Asia Maritime Ltd.	6742	9928
	Total	**1864976**	**3302879**
	LPG Carriers		
1	Great Eastern Shipping Co. Ltd.	17778	17577
2	Shipping Corpn. Of India Ltd.	35556	35202
3	Varun Shipping Co.Ltd.	265433	225297
	Total	**318767**	**278076**

Source: Directorate General of Shipping, Mumbai.

III.8 Share of Traffic of Petroleum Products in the Total Traffic Handled at Major Ports

(Million Tonnes)

Name of the port	Year	Total traffic	POL traffic	POL as %age of total traffic at the port
1	*2*	*3*	*4*	*5*
Kolkata/Haldia	2001-02	30.40	14.00	46.0
	2002-03	35.80	16.47	46.0
	2003-04	41.26	20.24	49.0
	2004-05	46.21	22.01	47.6
	2005-06	53.14	22.62	42.6
	2006-07	55.05	23.24	42.2
	2007-08	57.33	22.25	38.8
	2008-09*	54.05	20.31	37.6
Mumbai	2001-02	26.43	15.71	59.4
	2002-03	26.80	16.03	59.8
	2003-04	30.00	18.58	61.9
	2004-05	35.19	19.40	55.1
	2005-06	44.19	27.78	62.9
	2006-07	52.36	32.17	61.4
	2007-08	57.04	37.07	65.0
	2008-09*	51.88	34.87	67.2
Chennai	2001-02	36.12	8.37	23.2
	2002-03	33.69	8.92	26.5
	2003-04	36.71	9.20	25.1
	2004-05	43.81	11.42	26.1
	2005-06	47.25	13.11	27.7
	2006-07	53.41	12.99	24.3
	2007-08	57.15	12.71	22.2
	2008-09*	57.49	13.11	22.8
Kochi	2001-02	12.06	8.59	71.2
	2002-03	13.00	9.37	72.1
	2003-04	13.57	9.96	73.4
	2004-05	14.10	10.28	72.9
	2005-06	13.89	9.64	69.4
	2006-07	15.26	10.48	68.7
	2007-08	15.81	11.30	71.5
	2008-09*	15.23	10.49	68.9
Kandla	2001-02	37.73	22.71	60.2
	2002-03	40.63	23.01	56.6
	2003-04	41.52	23.63	56.9
	2004-05	41.55	22.12	53.2
	2005-06	45.91	24.29	52.9
	2006-07	52.98	29.71	56.1
	2007-08	64.92	38.23	58.9
	2008-09*	72.23	45.54	63.0

*: Provisional

Cont'd...

III.8 Share of Traffic of Petroleum Products in the Total Traffic Handled at Major Ports

(Million Tonnes)

Name of the port	Year	Total traffic	POL traffic	POL as %age of total traffic at the port
1	2	3	4	5
Visakhapatnam	2001-02	44.34	18.58	41.9
	2002-03	46.01	16.91	36.8
	2003-04	47.74	17.43	36.5
	2004-05	50.15	14.63	29.2
	2005-06	55.80	16.94	30.4
	2006-07	56.39	18.18	32.2
	2007-08	64.60	19.81	30.7
	2008-09*	63.91	19.76	30.9
Mormugao	2001-02	22.93	1.15	5.0
	2002-03	23.65	1.13	4.8
	2003-04	27.87	1.32	4.7
	2004-05	30.66	1.01	3.3
	2005-06	31.69	0.83	2.6
	2006-07	34.24	0.79	2.3
	2007-08	35.13	0.87	2.5
	2008-09*	41.68	0.90	2.2
J.N.P.T.	2001-02	22.52	1.75	7.8
	2002-03	26.84	1.89	7.0
	2003-04	31.19	1.94	6.2
	2004-05	32.81	2.46	7.5
	2005-06	37.84	2.55	6.7
	2006-07	44.82	2.63	5.9
	2007-08	55.84	2.19	3.9
	2008-09*	57.28	5.37	9.4
Paradip	2001-02	21.13	1.99	9.4
	2002-03	23.90	1.92	8.0
	2003-04	25.31	1.36	5.4
	2004-05	30.10	0.84	2.8
	2005-06	33.11	0.91	2.7
	2006-07	38.52	1.38	3.6
	2007-08	42.44	1.76	4.1
	2008-09*	46.41	3.24	7.0
Port of Tuticorin	2001-02	13.02	0.43	3.3
	2002-03	13.29	0.49	3.7
	2003-04	13.68	0.56	4.1
	2004-05	15.81	0.74	4.7
	2005-06	17.14	0.77	4.5
	2006-07	18.00	0.74	4.1
	2007-08	21.48	0.46	2.1
	2008-09*	22.01	0.50	2.3

*: Provisional

Cont'd...

III.8 Share of Traffic of Petroleum Products in the Total Traffic Handled at Major Ports

(Million Tonnes)

Name of the port	Year	Total traffic	POL traffic	POL as %age of total traffic at the port
1	*2*	*3*	*4*	*5*
New Mangalore	2001-02	17.50	9.90	56.6
	2002-03	21.43	13.45	62.8
	2003-04	26.67	17.95	67.3
	2004-05	33.89	21.43	63.2
	2005-06	34.45	22.39	65.0
	2006-07	32.04	21.87	68.3
	2007-08	36.02	21.78	60.5
	2008-09*	36.69	21.33	58.1
Ennore	2001-02	3.40	0.00	0.0
	2002-03	8.49	0.00	0.0
	2003-04	9.28	0.00	0.0
	2004-05	9.48	0.10	1.1
	2005-06	9.17	0.24	2.6
	2006-07	10.71	0.19	1.8
	2007-08	11.55	0.32	2.8
	2008-09*	11.50	0.36	3.1
Grand Total	2001-02	287.58	103.18	35.9
	2002-03	313.53	109.59	35.0
	2003-04	344.80	122.16	35.4
	2004-05	383.75	126.44	32.9
	2005-06	423.57	142.09	33.5
	2006-07	463.78	154.34	33.3
	2007-08	519.31	168.75	32.5
	2008-09*	530.36	175.78	33.1

Source : Ministry of Shipping.

*: Provisional

III.9 Movement of POL Traffic on Railways

Year	Tonnes Originating (TMT)	Earnings ('000' Rs.)	Average Lead (Kms)	Earnings (Paise/ Tonnes/ Kms)	Average Freight Col 3 / Col 2 (Rs/Tonne)
1	*2*	*3*	*4*	*5*	*6*
2001-02	35615	27456426	555	138.9	770.92
2002-03	34051	27546070	564	143.4	808.97
2003-04	32020	24283000	569	133.3	758.37
2004-05	31997	26825426	657	127.6	838.37
2005-06	33454	30693555	726	126.4	917.49
2006-07	35234	30375674	702	122.8	862.11
2007-08	35879	29364077	652	129.5	818.42

III.10 Rail Freight Rates in respect of Petroleum Products

(Rs./Tonne)

Effective Dates	Distance in Kilometres							
	100	300	500	800	1000	1500	2000	2500
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
01.04.2003	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2004	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2005	200.2	464.2	728.2	1124.2	1388.2	2048.2	2540.2	2900.2
01.04.2006	183.5	425.5	667.5	1030.5	1272.5	1877.5	2328.5	2658.5
01.07.2006	175.1	413.1	647.2	1007.6	1243.0	1835.0	2302.4	2615.8
01.04.2007	175.1	413.1	647.2	1007.6	1243.0	1835.0	2302.4	2615.8
01.04.2008	166.8	393.4	616.4	959.6	1183.8	1747.6	2192.8	2491.2
01.04.2009	166.8	393.4	616.4	959.6	1183.8	1747.6	2192.8	2491.2

Source : Railway Board

III.11 Total Retail Outlets in India

(Number)

Year	Retail Outlets*	BPCL	HPCL	IOC	AOC/ AOD	IBP	TOTAL
1	2	3	4	6	7	8	9
2001	Nos.	4555	4536	7134	315	1475	18015
	%	25.3	25.2	39.6	1.7	8.2	100.0
2002	Nos.	4610	4642	7433	318	1551	18554
	%	24.8	25.0	40.1	1.7	8.4	100.0
2003	Nos.	4772	4799	7635	323	1808	19337
	%	24.7	24.8	39.5	1.7	9.3	100.0
2004	Nos.	5274	5204	8762	326	2524	22090
	%	23.9	23.6	39.7	1.5	11.4	100.0
2005	Nos.	6016	6295	9882	#	3114	25307
	%	23.8	24.9	39.0		12.3	100.0
2006	Nos.	7321	7026	11149	#	3412	28908
	%	25.3	24.3	38.6		11.8	100.0
2007	Nos.	7800	7909	12841	#	3590	32140
	%	24.3	24.6	40.0		11.2	100.0
2008	Nos.	8238	8329	17534	#	#	34101
	%	24.2	24.4	51.4			100.0
2009	Nos.	8387	8539	18140	#	#	35066
	%	23.9	24.4	51.7			100.0



Note: #: Included in IOC.

*: As on 1st January upto 2006 & 1st April from 2007 & onwards.

Source: Public Sector Undertakings.

III.12 State-wise Number of Retail Outlets, LDO/SKO Dealers and LPG Distributors

(Number)

State / UT	As on 1.4.2009		
	Retail Outlets	LDO/SKO Dealers	LPG Distributors
1	2	3	4
States			
Andhra Pradesh	2921	603	880
Arunachal Pradesh	47	33	30
Assam	530	361	251
Bihar	1466	373	310
Chhattisgarh	507	109	152
Delhi	401	116	314
Goa	92	21	53
Gujarat	1778	497	545
Haryana	1531	148	280
Himachal Pradesh	283	26	121
Jammu & Kashmir	378	47	151
Jharkhand	666	86	142
Karnataka	2260	325	484
Kerala	1638	243	373
Madhya Pradesh	1643	281	564
Maharashtra	3178	775	1000
Manipur	56	36	31
Meghalaya	122	35	32
Mizoram	22	19	25
Nagaland	47	19	27
Orissa	929	179	189
Punjab	2652	244	425
Rajasthan	2343	253	430
Sikkim	29	12	8
Tamil Nadu	2969	465	656
Tripura	41	40	29
Uttar Pradesh	4262	699	1166
Uttaranchal	366	72	169
West Bengal	1724	469	475
Union Territories			
Andaman & Nicobar	7	1	4
Chandigarh	43	12	28
Dadra & Nagar Haveli	12	2	1
Daman & Diu	18	5	2
Lakshadweep	0	0	1
Pondicherry	105	8	18
Grand Total	**35066**	**6614**	**9366**

Source: Public Sector Undertakings.

III.13 State-wise and Company-wise Retail Outlets

(Number)

State / UT	As on 1.4.2009 IOCL/ AOD	HPCL	BPCL	Total
1	*2*	*3*	*4*	*5*
States				
Andhra Pradesh	1429	769	723	2921
Arunachal Pradesh	46	0	1	47
Assam	447	61	22	530
Bihar	911	249	306	1466
Chhattisgarh	217	142	148	507
Delhi	200	96	105	401
Goa	21	32	39	92
Gujarat	928	411	439	1778
Haryana	911	363	257	1531
Himachal Pradesh	164	67	52	283
Jammu & Kashmir	184	103	91	378
Jharkhand	342	168	156	666
Karnataka	1172	556	532	2260
Kerala	769	481	388	1638
Madhya Pradesh	781	379	483	1643
Maharashtra	1241	902	1035	3178
Manipur	54	0	2	56
Meghalaya	98	18	6	122
Mizoram	20	2	0	22
Nagaland	42	2	3	47
Orissa	509	175	245	929
Punjab	1453	652	547	2652
Rajasthan	1126	666	551	2343
Sikkim	14	3	12	29
Tamil Nadu	1423	753	793	2969
Tripura	41	0	0	41
Uttar Pradesh	2386	947	929	4262
Uttaranchal	188	100	78	366
West Bengal	926	387	411	1724
Union Territories				
Andaman & Nicobar	7	0	0	7
Chandigarh	22	11	10	43
Dadra & Nagar Haveli	8	3	1	12
Daman & Diu	10	5	3	18
Lakshadweep	0	0	0	0
Pondicherry	50	36	19	105
Grand Total	**18140**	**8539**	**8387**	**35066**

Source: Public Sector Undertakings.

III.14 State-wise and Company-wise LPG Domestic Consumers

('000' Number)

State / UT	As on 1.4.2009			
	IOCL/ AOD	HPCL	BPCL	Total
1	*2*	*4*	*5*	*6*
States				
Andhra Pradesh	4304	4733	2419	11456
Arunachal Pradesh	129	0	0	129
Assam	1895	30	69	1994
Bihar	1800	378	396	2574
Chhattisgarh	583	355	175	1113
Delhi	2722	596	934	4252
Goa	10	265	151	426
Gujarat	3145	1202	1303	5650
Haryana	1679	656	1090	3425
Himachal Pradesh	1069	164	76	1309
Jammu & Kashmir	404	878	145	1427
Jharkhand	842	197	134	1173
Karnataka	2575	1996	1480	6051
Kerala	3156	840	1692	5688
Madhya Pradesh	2247	1219	894	4360
Maharashtra	1636	5960	6295	13891
Manipur	221	0	0	221
Meghalaya	113	0	0	113
Mizoram	192	0	0	192
Nagaland	144	0	0	144
Orissa	586	659	290	1535
Punjab	2931	958	1132	5021
Rajasthan	1931	1165	1309	4405
Sikkim	120	0	0	120
Tamil Nadu	6452	1378	2783	10613
Tripura	261	0	0	261
Uttar Pradesh	6017	1526	2781	10324
Uttaranchal	1273	93	189	1555
West Bengal	3555	1152	746	5453
Union Territories				
Andaman & Nicobar	66	0	0	66
Chandigarh	219	71	47	337
Dadra & Nagar Haveli	0	39	0	39
Daman & Diu	0	29	16	45
Lakshadweep	3	0	0	3
Pondicherry	120	93	54	267
GRAND TOTAL	52400	26632	26600	105632

Source: Public Sector Undertakings.

III.15. CNG Activities in India

(As on 1.4.2009)

Item	Delhi	Maharashtra		Gujarat			Uttar Pradesh				Andhra Pradesh			Tripura	Madhya Pradesh		Total	Grand Total
		#	Pune	Vado-dara	Surat	Ankle-shwar	Lucknow	Agra	Kanpur	Bareilly	Vijay-wada	Hydera-bad	Rajamu-ndery	Agartala	Indore	Ujjain		
	IGL	MGL	MNGL	GAIL	GGCL	GGCL	GAIL GGL	GAIL GGL	GAIL CUGL	GAIL CUGL	GAIL(BGL)			GAIL TNGCL	GAIL AGL	GAIL AGL		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18(5-17)	19
Station Type																		
Mother	73	9	1	2	2	1	1	1	1	1	1	0	0	0	1	0	11	94
Online	51	113	0	0	21	2	0	0	6	0	0	0	0	1	0	0	30	194
Daughter Booster	43	14	6	1	2	1	3	2	0	0	5	3	1	0	0	0	18	81
Daughter	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	8
Total	171	136	7	3	25	4	4	3	7	1	6	3	1	1	4	1	63	377
No. of Vehicles																		
Cars / Taxis	177328	56061	46	623	36826	4213	384	165	297	$	720	$$	$$	65	300	$$$	43593	277028
Autos	93440	130447	481	3131	40417	6268	6502	5736	8799	$	3997	$$	$$	788	350	$$$	75988	300356
LCV/RTVs	5780	1829	0	0	0	0	0	0	0	$	0	$$	$$	0	0	$$$	0	7609
Buses	12918	1547	85	159	515	60	279	294	396	$	119	$$	$$	0	0	$$$	1822	16372
Others/Phatphat	400	1042	0	0	2010	146	77	0	89	$	27	$$	$$	0	0	$$$	2349	3791
Total	289866	190926	612	3913	79768	10687	7242	6195	9581	$	4863	$$	$$	853	650	$$$	123752	605156
Price (Rs./Kg)	18.90	(a)21.70 #	28	24.78 &	27.50	27.50	29.00	33.00	29.00	29.00	25.00	35.00	27.00	22.15	32.00	33.00		
		(b)22.14 #		23.79 @														
		(c)21.82 #																
		(d)22.23 #																
Average Consumption																		
TPD	1252.71	770.25	1.73	28.34	153.52	26.22	36.18	24.44	40.05	$	10.42	6.22	0.01	2.22	0.78	$$$		
MMSCMD	1.39	1.10	0.002	0.03	0.15	0.03	0.04	0.02	0.04	$	0.01	0.01	0.00	0.00	0.00	$$$		

MMSCMD: Million Standard Cubic Metres Per Day TPD : Tonnes per day $: Included in Kanpur $$: Included in Vijaywada $$$: Included in Indore

#: (a)Mumbai/(b)Thane/(c)Mira Bhayander/(d)Navi Mumbai. &: Price at Daughter Booster Station and @: Online Station respectively.

Note: GAIL is carrying CNG activities in Vadodara. GAIL has formed eight Joint Venture Companies(JVCs) till date to implement City Gas projects in various cities of the country. Out of eight JVCs, six are operational at the moment. Apart from IGL & MGL, GAIL's other Joint Venture Companies such as BGL(A.P.), GGL (Lucknow, Agra & Western U.P., CUGL(Kanpur, Bareilly & Eastern U.P.) & TNGCL(Agartala inTripura) are also carrying out CNG activities in various cities.

Conversion factors:

1 Kg = 1.313 SCM of gas

1 Kg = 1.42 SCM of gas

1. IGL : Indraprastha Gas Ltd.
2. MGL : Mahanagar Gas Ltd.
3. MNGL : Maharashtra Natural Gas Ltd.
4. GGCL : Gujarat Gas Company Ltd.
5. GAIL : GAIL (India) Ltd.
6. BGL : Bhagyanagar Gas Limited
7. GGL :Green Gas Limited(GGL)
8. CUGL : Central UP Gas Ltd.(CUGL) Kanpur
9. TNGCL : Tripura Natural Gas Company Ltd. Agartala

III.16 Introduction to Green Fuels in India

Product	Effective Date	Areas Covered
1	2	3
MS (Euro-III)	1st April 2005	11 cities (Delhi/NCR, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad, Pune, Surat, Kanpur & Agra).
	1st June 2005	Lucknow & Solapur
HSD(Euro-III)	1st April 2005	11 cities (Delhi/NCR, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad, Pune, Surat, Kanpur & Agra).
	1st June 2005	Lucknow & Solapur
MS(BS-II)	1st April 2005	All over India, excluding 11 cities mentioned above.
HSD (BS-II)	1st April 2005	In all States of India excluding Rajastan, West U.P., Uttranchal, M.P., Punjab, H.P. J&K and UT of Chandigarh.
HSD (BS-II)	1st June 2005	In the State of Rajasthan
HSD (BS-II)	1st July 2005	In the States of West U.P. and Uttaranchal
HSD (BS-II)	1st Sep. 2005	In the State of M.P.
HSD (BS-II)	1st Sept, 2005	In the States of M.P., H.P.and UT of Chandigarh.
HSD (BS-II)	1st Oct, 2005	In the States of Punjab and J&K
Bio Diesel	1st Jan.,2006	The 20 purchase centres have been nominated : A.P(Ghatkesor), Chandigarh(Mandirhasaud),Delhi(Bijwasan),Gujarat(Kandla), Haryana(Rewari),Karnataka(Devenagunthi & Mangalore),Madhya Pradesh(Mangliagaon),Maharashtra(Loni, Manmad, Barkhedi & Vashi), Punjab(Bhatinda),Rajasthan(Sanganer & Salawas), Tamil Nadu(Karukkupet, Narimanam & Karur) & U.P.(Panki & Amousi)
Ethanol Blen--ded Petrol (EBP)	20.09.2006*	20 States: A.P., Bihar,Chhatisgarh,Delhi,Goa, Gujarat,Haryana, H.P., Jharkhand,Karnataka, Kerala, M. P., Maharashtra, Orissa, Punjab,Rajasthan,T.N.,Uttarakhan, U.P & West Bengal and 4UTs: Chandigarh, Daman & Diu,Dadar & Nagar Haveli & Pondicherry.

Note: *:Vide Notification No. GSR-580(E) dated 20.09.2006 MoP&NG decided to introduce Ethanol Blended Petrol(EBP) in 20 States and 4 UTs subject to commercial viability.

Source: Petroleum Planning & Analysis Cell.

Prices

IV.1 Wholesale Price Indices of Selected Petroleum Products

(1993-94 =100)

Products	Weight(%)	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9	10
Light Distillates									
LPG	1.83731	266.6	284.0	285.5	316.0	334.8	334.8	334.8	334.8
Petrol	0.88815	158.1	163.4	178.7	203.5	231.1	254.8	242.3	242.3
Naphtha	0.41885	265.6	256.5	315.6	432.1	530.4	615.9	694.4	694.4
Middle Distillates									
Kerosene	0.68928	304.0	359.7	359.2	357.9	357.6	357.6	357.6	357.6
Aviation Turbine Fuel	0.16953	152.1	135.7	149.3	174.1	228.7	262.6	272.7	272.7
High Speed Diesel Oil	2.02034	252.3	273.5	300.4	360.4	430.4	468.2	451.6	451.6
Light Diesel Oil	0.16015	243.8	233.0	284.6	366.3	445.3	491.1	491.2	491.2
Heavy Ends									
Furnace Oil	0.49335	187.5	179.7	227.2	265.5	347.4	393.2	438.4	438.4
Lubricating Oil	0.16367	147.6	154.7	163.8	189.3	194.5	248.8	275.0	275.0
Bitumen	0.14900	214.2	207.6	251.2	267.4	288.0	421.7	479.0	479.0
All commodities	**100.00000**	**161.3**	**166.8**	**175.9**	**187.3**	**195.6**	**206.2**	**215.7**	**215.7**

Source: Office of the Economic Adviser, Ministry of Commerce & Industry.

*:Provisional.

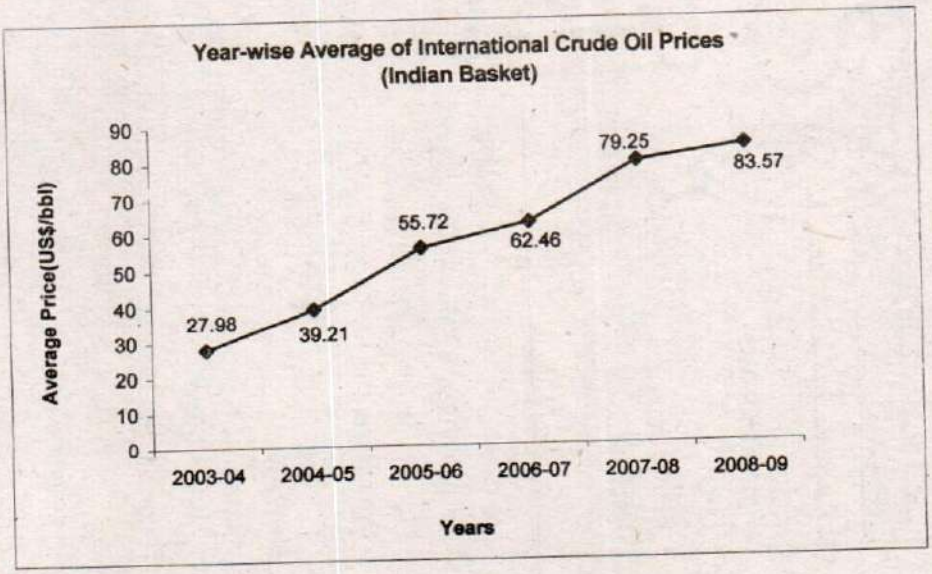
IV.2 Month & Year-wise Average of International Crude Oil Prices (Indian Basket)

Price in US$/bbl

Year/Month	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	% Growth *
1	2	3	4	5	6	6	7
April	24.21	32.37	49.47	67.15	65.52	105.77	61.43
May	24.98	36.08	47.02	67.29	65.74	120.91	83.92
June	26.44	34.23	52.75	66.80	68.19	129.72	90.23
July	27.46	36.35	55.05	71.36	72.69	132.47	82.24
August	28.67	40.53	60.05	70.84	69.03	113.05	63.77
September	26.27	39.15	59.74	61.04	74.83	96.81	29.37
October	28.45	43.88	56.28	57.27	79.33	69.12	-12.87
November	28.23	38.82	53.14	57.8	89.11	50.91	-42.87
December	28.97	38.82	55.05	60.35	87.92	40.61	-53.81
January	30.00	40.96	60.54	52.53	89.52	44.02	-50.83
February	29.64	42.67	58.95	56.53	92.37	43.22	-53.21
March	32.21	49.27	60.01	60.25	99.76	46.02	-53.87
Year Average	27.98	39.21	55.72	62.46	79.25	83.57	5.45

* = % Growth during 2008-09 as compared to 2007-08

Source: Petroleum Planning & Analysis Cell



IV.3(a) Weighted Average of Crude Oil Prices

(Rs./MT)

Year		Basic Price	Royalty	Cess	Sales Tax
2004-05	Offshore crude	11515	1182	1877	558
	Onshore crude	8925	1942	1877	500
	Offshore and Onshore crude	10607	1448	1877	538
2005-06	Offshore crude	11811	1259	1945	563
	Onshore crude	7372	2818	1954	490
	Offshore and Onshore crude	10174	1834	1948	536
2006-07	Offshore crude	17856	1814	2601	824
	Onshore crude	14504	3110	2601	812
	Offshore and Onshore crude	16725	2251	2601	820
2007-08	Offshore crude	26668	2224	2500	869
	Onshore crude	24433	3707	2500	940
	Offshore and Onshore crude	25913	2714	2500	893
2008-09	Offshore crude	30507	2568	2500	878
	Onshore crude	28354	4335	2500	1091
	Offshore and Onshore crude	29796	3152	2500	948

Note:

2004-05 (i) The above prices exclude octroi and BPT charges. (ii) Cess includes NCCD of Rs.50/MT and education cess of Rs.37/MT. (iii) Education Cess @2% on OID cess and NCCD is levied from 9.7.04. (iv) The above prices are gross. Subsidy allowed to refineries during 2004-05 has not been considered.

2005-06 (i) The above prices exclude octroi and BPT charges, which is Rs.148.99 and Rs.29.58 per MT respectively, applicable in case of offshore crude only. (ii) Cess includes NCCD of Rs.50/MT and edu. cess of Rs.37/MT. (iii) Royalty on onshore crude are based on pre discount crude prices. (iv) The above prices are net after considering subsidy discount on crude oil to refineries during 2005-06.

2006-07 (i) The above prices exclude octroi and BPT charges, which is Rs.303.25 and Rs.26.74 per MT respectively, applicable in case of offshore crude only & crude pipeline charges of Rs.72.30 per MT applicable for onshore crude. (ii) Cess includes OIDB Cess of Rs.2500/MT, NCCD of Rs.50/MT and education cess @2% on OIDB Cess and NCCD.

2007-08 & 2008-09 (i) Basic Price is all inclusive Gross (pre-discount) price. (ii) All levies like VAT/CST, Royalty, Octroi etc. worked out on Gross Price. (iii)NCCD @Rs.50/MT & edu. cess @3% on OID Cess and NCCD are also payable on crude.

IV.3(b) Consumer and Producer Prices of Natural Gas

(Rs./'000' cubic metre)

Effective Date	Consumer Prices		Transportation charges along HVJ pipeline	Producer Prices			Calorific Value
	Off-shore (Landfall point and On-shore	For North-Eastern States		ONGC	ONGC (NE states)	OIL (NE states)	(K.Cal/SCM)
1	2	3	4	5	6	7	8
01.04.2002	2850	1700	1150	2116	1700	1900	10000
01.07.2002	2850	1700	1150	2074	1700	1900	10000
01.10.2002	2850	1700	1150	2118	1700	1900	10000
01.01.2003	2850	1700	1150	2132	1700	1900	10000
01.04.2003	2850	1700	1150	2206	1700	1900	10000
01.07.2003	2850	1700	1150	2176	1700	1900	10000
01.10.2003	2850	1700	1150	2240	1700	1900	10000
01.01.2004	2850	1700	1150	2224	1700	1900	10000
01.03.2004	2850	1700	1150	2224	1700	1900	10000
01.04.2004	2850	1700	1150	2137	1700	1900	10000
01.07.2004	2850	1700	1150	2176	1700	1900	10000
01.09.2004	2850	1700	1150	2194	1700	1900	10000
01.10.2004	2850	1700	1150	2120	1700	1900	10000
01.01.2005	2850	1700	1150	2143	1700	1900	10000
01.04.2005	2850	1700	1150	2384	1700	1900	10000
01.07.2005	3200	1920	1150	3168	1920	3168	10000
01.10.2005	3200	1920	1150	3137	1920	3137	10000
01.01.2006	3200	1920	1150	3118	1920	3118	10000
01.04.2006	3200	1920	1150	3200	1920	3200	10000
01.04.2007	3200	1920	1150	3200	1920	3200	10000
01.04.2008	3200	1920	1019	3200	1920	3200	10000
01.07.2008	3200	1920	1015	3200	1920	3200	10000
01.10.2008	3200	1920	1046	3200	1920	3200	10000
01.01.2009	3200	1920	1069	3200	1920	3200	10000
01.04.2009	3200	1920	1069	3200	1920	3200	10000

Note:

1. The consumer prices are exclusive of Royalty, Sales Tax and other Statutory Levies.
   Producer prices are exclusive of Royalty.
2. w.e.f. 6.6.2006, price of natural gas has been revised to Rs.3840 / MSCM having allocation upto 0.05 MMSCMD and city gas distribution projects vide order dated 5.6.2006.

Source: Petroleum Planning & Analysis Cell.

IV.4 Subsidies provided under Budget of Government of India

Sector	Actuals 2001-02	Actuals 2002-03	Actuals 2003-04	Actuals 2004-05	Actuals 2005-06	Actuals 2006-07	Actuals 2007-08	Actuals 2008-09
1	2	3	4	5	6	7	8	9
				(Rs. in Crore)				
1. Food Subsidy	**17612**	**24200**	**25200**	25798	23077	24014	31328	43627.20
2. Fertilisers								
(i) Indigenous (Urea) Fertilisers	7370	7499	8139	10243	10653	12650	12950	16516.37
(ii) Imported (Urea) Fertilisers	59	10	1	494	1211	3274	6606	10981.28
(iii) Sale of decontrolled fertiliser with concession to Farmers	4515	3500	3656	5142	6596	10298	12934	48351.10
Total Fertiliser Subsidy	11944	11009	11796	15879	18460	26222	32490	75848.75
3. Petroleum Subsidy	...	6265	6573	*2956*	*2683*	*2699*	*2820*	*2876.43*
4. Interest Subsidies	210	765	207	564	2177	2809	2311	4063.19
5. Other Subsidies	757	2379	933	760	1025	1381	1977	2827.11
Total Subsidies	**30523**	**44618**	**44709**	45957	47422	57125	70926	129242.68
				Percentages				
1. Food Subsidy	57.70	54.24	56.36	56.14	48.66	42.04	44.17	33.76
2. Fertilisers								
(i) Indigenous (Urea) Fertilisers	24.15	16.81	18.20	22.29	22.46	22.14	18.26	12.78
(ii) Imported (Urea) Fertilisers	0.19	0.02	0.00	1.07	2.55	5.73	9.31	8.50
(iii) Sale of decontrolled fertiliser with concession to Farmers	14.79	7.84	8.18	11.19	13.91	18.03	18.24	37.41
Total Fertiliser Subsidy	39.13	24.67	26.38	34.55	38.93	45.90	45.81	58.69
3. Petroleum Subsidy		14.04	14.70	6.43	5.66	4.72	3.98	2.23
4. Interest Subsidies	0.69	1.71	0.46	1.23	4.59	4.92	3.26	3.14
5. Other Subsidies	2.48	5.33	2.09	1.65	2.16	2.42	2.79	2.19
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Note: 1. Subsidy under Petroleum is for domestic LPG, PDS Kerosene, freight subsidy for for flung areas and other compensation. This Subsidy does not include Oil Bonds issued by the Government to IOCL, BPCI & HPCL under realization for markeing of sensitive petro products.

2. 'Other Subsidies' includes grants to NAFED for MIS/PPS, import/export of sugar edible oils/pulses, Haj subsidy and Shipyards etc.

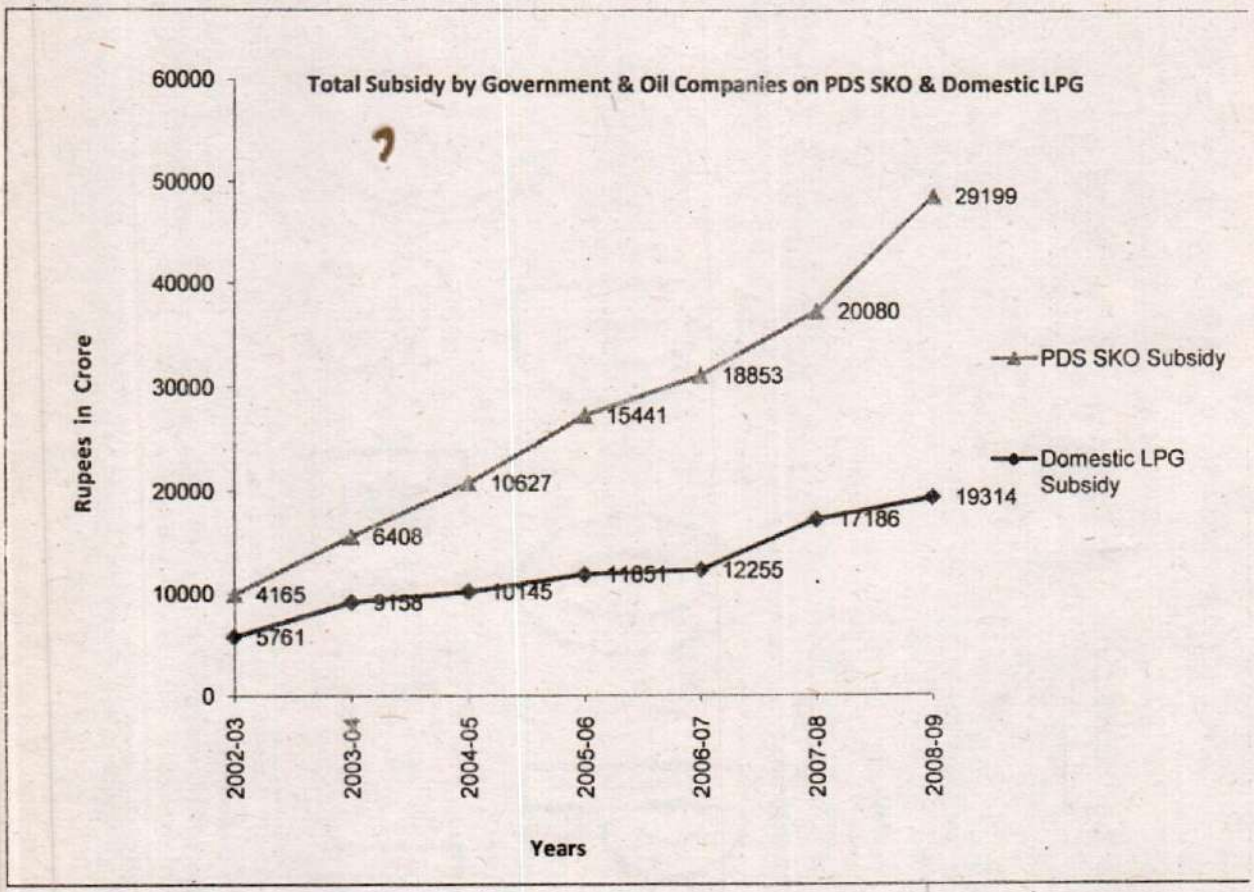
Souces: Expenditure Budget 2009-10 (Vol.-I)

IV.5 Subsidy Provided by the Government and Oil Companies on PDS SKO & Domestic LPG

(Rs. in Crore)

Years	PDS SKO			Domestic LPG			Total Subsidy
	Fiscal Subsidy	By Oil Companies	Total	Fiscal Subsidy	by Oil Companies	Total	
1	2	3	4	5	6	7	8
2002-03	2098	2067	4165	2398	3363	5761	9926
2003-04	2657	3751	6408	3635	5523	9158	15566
2004-05	1147	9480	10627	1783	8362	10145	20772
2005-06	1057	14384	15441	1605	10246	11851	27292
2006-07	970	17883	18853	1554	10701	12255	31108
2007-08	978	19102	20080	1663	15523	17186	37266
2008-09	974	28225	29199	1714	17600	19314	48513
Total	**9881**	**94892**	**104773**	**14352**	**71318**	**85670**	**190443**

Source:Budget document and Petroleum Planning & Analysis Cell



IV.6 Price Build-up of Selected Petroleum Products in Major Cities (As on 1.4.2009)

	Delhi	Kolkata	Mumbai	Chennai
Liquefied Petroleum Gas (Domestic) (Rs./14.2 Kg Cyl)				
Ex-Storage Price	255.55	255.55	255.55	255.55
State surcharge	0.03	3.86	4.08	7.01
Freight upto bottling plant	1.42	2.27	0.00	0.00
Price adj factor	21.43	22.27	21.88	10.16
Assessable value	**278.43**	**283.95**	**281.50**	**272.72**
Price at bottling plant	**278.43**	**283.95**	**281.50**	**272.72**
State Subsidy	(40.00)	**0.00**	**0.00**	**0.00**
Freight / local delivery charges	10.00	10.00	10.00	10.00
Price including octroi	**248.43**	**293.95**	**291.50**	**282.72**
Central sales tax / sales tax	9.94	11.76	0.00	11.31
Surcharge on ST/Toll Tax	0.00	0.17	0.00	0.00
Billable rate	**258.36**	**305.88**	**291.50**	**294.03**
Price to dealer (14.2kg/cyl)	258.36	305.88	291.50	294.03
Distributor commission	20.54	20.54	20.54	20.54
VAT	0.82	0.82	0.00	0.00
Price after Distributor Commission	279.71	327.24	312.04	314.57
RSP for 14.2kg/cyl	279.71	327.24	312.04	314.57
RSP Rounded off	279.70	327.25	312.05	314.55
Motor Spirit (Rs./Kl)				
Revised ex-storage point price	18808.35	18808.35	18808.35	18808.35
State surcharge	4.00	605.00	276.00	785.00
BMC Surcharge	0.00	0.00	859.00	0.00
Siding Charge w.e.f. 19.7.07	58.83	0.00	0.00	0.00
Rly/Ocean/Freight	91.96	223.87	0.00	0.00
RPO surcharge	36.00	36.00	36.00	36.00
RPO charge	4.36	4.36	4.36	4.36
Price adj factor	0.00	84.79	(53.01)	(218.86)
Assessable value	**19003.50**	**19762.37**	**19930.70**	**19424.85**
Basic Excise Duty	1350.00	1350.00	1350.00	1350.00
ADE + SADE	7000.00	7000.00	7000.00	7000.00
Sub Total	27353.50	28112.37	28280.70	27774.85
FDZ charges	44.00	44.00	44.00	44.00
Basic Excise Duty	5000.00	5000.00	5000.00	5000.00
EDN Cess	400.50	400.50	400.50	400.50
Sub Total	**32798.00**	**33556.87**	**33725.20**	**33219.35**
Delivery charges beyond FDZ	0.00	19.20	0.00	0.00
Toll Tax	0.00	16.00	0.00	0.00
RPO Price	32798.00	33592.07	33725.20	33219.35
Sales Tax	6770.00	8398.02	8768.55	9965.81
Surcharge on ST	0.00	1000.00	1000.00	0.00
Dealer Commission	1052.00	1052.00	1052.00	1052.00
Retail Selling Price Rs./Kl	**40620.00**	**44042.09**	**44545.75**	**44237.16**
Retail Selling Price Rs./Ltr	**40.62**	**44.05**	**44.55**	**44.24**

Cont'd....

IV.6 Price Build-up of Selected Petroleum Products in Major Cities (As on 1.4.2009)

	Delhi	Kolkata	Mumbai	Chennai
	High Speed Diesel (Rs./Kl)			
Revised Storage Point Price	22605.78	22605.78	22605.78	22605.78
State surcharge	2.00	300.00	137.00	120.00
BMC surcharge	0.00	0.00	299.00	0.00
Siding Charge w.e.f. 19.7.07	66.38	89.46	0.00	0.00
Rly / Ocean / Freight	102.68	162.19	0.00	0.00
RPO surcharge	21.00	21.00	21.00	21.00
RPO charge (excisable)	0.27	0.27	0.27	0.27
PAF	0.00	18.14	22.33	3.52
Assessable value	**22798.11**	**23196.84**	**23085.38**	**22750.57**
Basic Excise Duty	1350.00	1350.00	1350.00	1350.00
Sub Total	**24148.11**	**24546.84**	**24435.38**	**24100.57**
FDZ charges	44.00	44.00	44.00	44.00
Additional Excise Duty	1000.00	1000.00	1000.00	1000.00
Basic Excise Duty	1250.00	1250.00	1250.00	1250.00
Edn Cess	108.00	108.00	108.00	108.00
Sub Total	**26550.11**	**26948.84**	**26837.38**	**26502.57**
Delivery charges beyond FDZ	0.00	19.20	0.00	0.00
Octroi at destination	0.00	16.00	0.00	0.00
RPO Price	26550.11	26984.04	26837.38	26502.57
Pollution Cess w.e.f. 8.2.08	250.00	0.00	0.00	0.00
Sales Tax	3428.89	4297.29	6977.72	5679.50
Surcharge on ST	0.00	1000.00	0.00	0.00
Dealer Commission	631.00	631.00	631.00	631.00
Retail Selling Price Rs./Kl	**30860.00**	**32912.33**	**34446.10**	**32813.07**
Retail Selling Price Rs./Ltr	**30.86**	**32.92**	**34.45**	**32.82**
	Superior Kerosene Oil(Rs./Kl)			
Revised Ex-storage point price	7967.00	7967.00	7967.00	7967.00
State surcharge	0.00	62.00	4.00	113.00
BMC surcharge	0.00	0.00	62.00	0.00
Siding charges	0.00	0.00	0.00	0.00
Rly / PL / Ocean / Freight	115.56	19.37	0.00	0.00
Assessable value	**8082.56**	**8048.37**	**8033.00**	**8080.00**
Entry tax amount / TN rebate	0.00	0.00	0.00	(576.00)
Sales Tax	323.30	355.85	321.32	300.16
Wholesales Margin	255.00	255.00	254.10	143.00
Transport charges	348.78	408.30	243.00	52.25
VAT on wholesale margin	24.15	0.00	0.00	0.00
Wholesales Price/Kl	**9033.80**	**9067.52**	**8851.42**	**7999.41**
Retailers Margin	179.00	260.00	200.00	360.00
Handling Charges	0.00	130.00	29.58	0.00
Retailer Transportation	0.00	295.18	0.00	30.00
VAT on wholesale margin	7.16	0.00	0.00	0.00
Retail Extraordinary Commission	0.00	0.00	19.00	0.00
Retail Selling Price Rs./Kl	**9219.96**	**9752.70**	**9100.00**	**8389.41**
Retail Selling Price Rs./Ltr	**9.22**	**9.75**	**9.10**	**8.39**

Note: Selling price for Superior Kerosene Oil is for Public Distribution System(PDS).

Cont'd....

IV.6 Price Build-up of Selected Petroleum Products in Major Cities (As on 1.4.2009)

	Delhi	Kolkata	Mumbai	Chennai
ATF (Domestic Airlines)				
Basic price	19510.00	19950.00	19580.00	19800.00
Inland differential	570.00	0.00	0.00	0.00
State surcharge	2.00	3070.00	590.00	1032.00
Freight	322.98	606.54	100.00	155.66
Siding charges	36.84	0.00	0.00	0.00
Marketing cost	2370.00	4042.00	2255.00	2638.00
MSL cost	228.00	228.00	228.00	228.00
Assessable value	**23039.82**	**27896.54**	**22753.00**	**23853.66**
Excise Duty	1843.19	2231.72	1820.24	1908.29
Education Cess @3% on ED	55.30	66.95	54.61	57.25
Toll Tax	0.00	0.00	0.00	0.00
Posted airfield price per KL	**24938.31**	**30195.22**	**24627.85**	**25819.20**
Sales Tax	4987.66	7548.80	6156.96	7487.57
Final Selling Price Per KL	**29925.97**	**37744.02**	**30784.81**	**33306.77**
Furnace Oil (Rs./Kl)				
Ex-storage point price		16260.00	15660.00	16060.00
State surcharge		105.00	191.60	375.00
Notional railway freight		281.46	0.00	0.00
Siding / shunting charges		99.69	0.00	0.00
Assessable value		16746.15	15851.60	16435.00
Excise duty + edu cess		2414.79	2285.80	2369.93
Total inclusive of excise duty + edu cess		**19160.94**	**18137.40**	**18804.93**
Sales tax		766.44	2267.18	752.20
Total		**19927.38**	**20404.58**	**19557.13**
Light Diesel Oil (Rs./Kl)				
Ex-storage point price	23980.00	23980.00	23980.00	23980.00
State surcharge	25.00	1070.00	821.28	455.00
Notional railway freight	244.71	1085.53	0.00	0.00
Siding Dest.	40.20	93.50	0.00	0.00
Assessable value	**24289.91**	**26229.03**	**24801.28**	**24435.00**
Excise duty + edu cess	3502.61	3782.23	3576.34	3523.53
Additional levy alongwith cess	2575.00	2575.00	2575.00	2575.00
Total inclusive of excise duty + edu ce	**30367.52**	**32586.26**	**30952.62**	**30533.53**
Sales tax	3795.94	5539.66	3869.08	7633.38
Discount on Sales Tax	0.00	(1360.00)	0.00	0.00
State Development Tax	250.00	0.00	0.00	0.00
Total	**34413.46**	**36765.92**	**34821.70**	**38166.91**

IV.7 Trends in Retail Selling Prices of Selected Petroleum Products in Metropolitan Towns in India

Price as on	Mumbai	Kolkata	Delhi	Chennai
		Motor Spirit (Rs./Litre)		
01.04.2001	31.73	29.03	28.75	30.38
01.04.2002	30.78	26.99	26.54	28.49
01.04.2003	38.59	35.00	33.49	36.56
01.04.2004	38.83	36.61	33.71	36.79
01.04.2005	43.23	40.89	37.99	41.25
01.04.2006	49.16	46.90	43.49	47.49
01.04.2007	48.41	46.90	42.85	47.48
01.04.2008	50.51	48.95	45.52	49.61
01.04.2009	44.55	44.05	40.62	44.24
		High Speed Diesel Oil (Rs./Litre)		
01.04.2001	20.07	16.92	17.06	18.01
01.04.2002	21.10	16.97	16.60	18.10
01.04.2003	27.88	23.51	22.11	24.65
01.04.2004	27.43	23.99	21.73	24.23
01.04.2005	32.83	28.72	28.22	29.30
01.04.2006	37.57	32.87	30.45	33.72
01.04.2007	34.96	32.88	30.25	33.31
01.04.2008	36.08	33.92	31.76	34.40
01.04.2009	34.45	32.92	30.86	32.82
		Superior Kerosene Oil (Rs./Litre)*		
01.04.2001	7.57	7.76	7.35	7.00
01.04.2002	9.01	9.27	8.98	8.40
01.04.2003	9.26	9.30	9.01	8.40
01.04.2004	9.26	9.30	9.01	8.40
01.04.2005	9.28	9.26	9.02	8.39
01.04.2006	9.05	9.30	9.05	8.39
01.04.2007	9.05	9.29	9.09	8.39
01.04.2008	9.10	9.30	9.09	8.39
01.04.2009	9.10	9.75	9.22	8.39
		Liquefied Petroleum Gas (Rs./14.2 Kg Cylinder)		
01.04.2001	225.20	245.65	222.25	228.65
01.04.2002	244.95	265.55	240.45	247.40
01.04.2003	250.61	266.30	241.21	248.17
01.04.2004	251.00	266.70	241.60	248.55
01.04.2005	297.95	300.50	294.75	288.15
01.04.2006	297.95	300.50	294.75	288.15
01.04.2007	298.00	300.50	294.75	288.10
01.04.2008	298.00	300.50	294.75	288.10
01.04.2009	312.05	327.25	279.70	314.55

*: Prices for Public Distribution System.

IV.8 Rates of Dealers' Commission for MS, HSDO and LPG in India

Effective date	MS (Rs./Kl)	HSD (Rs./Kl)	LPG(Rs./Cylinder)	
			5 Kg	14.2 Kg
10.11.2001	613	365	-	15.55
01.11.2002	639	385	8.40	16.33
01.10.2003	639	385	8.60	16.71
01.04.2004	707	425	8.60	16.71
01.08.2005	848	509	8.60	16.71
01.03.2007	894	529	9.81	19.05
14.05.2007	1024	600	9.81	19.05
23.05.2008	1052	631	9.81	19.05
04.06.2008	1052	631	10.58	20.54

Note: 1. For dealers on DD an amount of Rs.58/Kl for MS & Rs.34/Kl for HSD shall be paid additionally.For dealers on pay order/bank cheque an amount of Rs.29/Kl for MS and Rs.17/Kl for HSD shall be paid additionally.

2. Licence fee recovery may be recovered for 'A' site @Rs.43/Kl and Rs.36/Kl and for 'B' site @Rs.13/Kl and @Rs.11/Kl for MS and HSD respectively.

Consumption

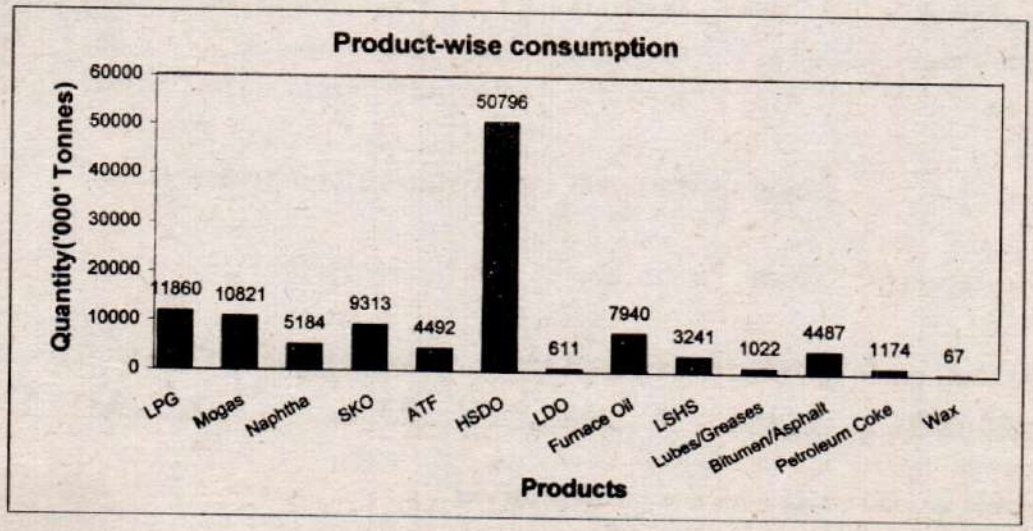
V.1(a) Product-wise Consumption of Petroleum Products

(Qty: '000' Tonnes)

	Products	2001	2002	2003	2004	2005	2006	2007	2008*	% to total	Change % 2008/07
1	2	3	4	5	6	7	8	9	10	11	
1	**Light Distillates**	**22851**	**23369**	**24293**	**25454**	**24421**	**24318**	**26344**	**28239**	**19.5**	**7.2**
	LPG	7179	7849	8828	9878	9980	10279	11228	11860	8.2	5.6
	Mogas	6940	7485	7758	8081	8272	8594	9561	10821	7.5	13.2
	Naphtha	8261	7465	7116	6843	5566	4758	5049	5184	3.6	2.7
	Others	371	570	591	652	603	687	506	374	0.3	-26.1
2	**Middle Distillates**	**51250**	**50631**	**49879**	**52041**	**50449**	**53844**	**59080**	**65627**	**45.4**	**11.1**
	SKO	10285	9804	9490	9303	9472	9414	9372	9313	6.4	-0.6
	ATF	2272	2257	2394	2716	3126	3830	4398	4492	3.1	2.1
	HSDO	36892	36611	36182	38305	36467	39414	44112	50796	35.1	15.2
	LDO	1234	1347	1236	1134	890	742	671	611	0.4	-8.9
	Others	567	612	577	583	494	444	526	415	0.3	-21.1
3	**Heavy Ends**	**15549**	**16018**	**16216**	**17076**	**17650**	**17036**	**18717**	**18531**	**12.8**	**-1.0**
	Furnace Oil	7005	7080	7018	7698	8375	8076	8288	7940	5.5	-4.2
	LSHS	4659	4717	4572	4465	4134	3414	3306	3241	2.2	-2.0
	Lubes/Greases	794	949	831	775	886	887	1057	1022	0.7	-3.3
	Bitumen/Asphalt	2410	2705	3196	3397	3365	3685	4308	4487	3.1	4.2
	Petroleum Coke	409	324	319	392	509	485	1150	1174	0.8	2.1
	Wax	105	57	60	74	74	74	70	67	0.0	-4.3
	Others	167	186	220	275	307	415	538	600	0.4	11.5
4	**Total (PSUs))**	**89650**	**90018**	**90388**	**94570**	**92520**	**95198**	**104141**	**112397**	**77.7**	**7.9**
5	**Pvt. Cons.**	9510	12407	14633	17041	17943	14468	22048 @	20159	**13.9**	**-8.6**
6	**TOTAL**	**99160**	**102425**	**105021**	**111611**	**110463**	**109666**	**126189**	**132556**	**91.7**	**5.0**
7	RBF	6995	7628	8063	8559	8914	10471	11575	12033	**8.3**	**4.0**
8	**Grand Total**	**106155**	**110053**	**113084**	**120170**	**119377**	**120137**	**137764**	**144589**	**100.0**	**5.0**
	%age growth	9.3	3.7	2.8	6.3	-0.7	0.6	14.7	5		

*: Provisional @ :Private Consumption includes Private Imports.

Source: Petroleum Planning & Analysis Cell.



V.1(b) Product-wise Consumption of Petroleum Products

(000' Tonne)

Products	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*	% Growth 2008-09/ 2007-08
1	2	3	4	5	6	7	8	9	10
1 Light Distillates	**29618**	**31755**	**34335**	**35204**	**33662**	**37076**	**38556**	**39878**	**3.4**
of which									
LPG	7728	8351	9305	10245	10456	10849	12165	12344	1.5
Motor Spirit	7011	7570	7897	8251	8647	9285	10332	11258	9.0
Naphtha+NGL	11755	11961	11868	13993	12194	13886	13294	13911	4.6
Others	3124	3873	5265	2715	2365	3055	2766	2365	-14.5
2 Middle Distillates	**51439**	**52065**	**52023**	**53906**	**54423**	**57595**	**62823**	**66378**	**5.7**
of which									
SKO	10432	10405	10230	9395	9541	9505	9365	9303	-0.7
ATF	2256	2269	2484	2811	3296	3983	4543	4423	-2.6
HSDO	36546	36644	37074	39651	40191	42896	47669	51710	8.5
LDO	1592	2063	1619	1476	883	720	667	552	-17.2
Others	613	684	616	573	512	491	579	390	-32.6
3 Heavy Ends	**19375**	**20306**	**21393**	**22524**	**25129**	**26078**	**27567**	**27343**	**-0.8**
of which									
Furnace Oil	8451	8027	8312	9136	8921	9257	9469	9419	-0.5
LSHS	4531	4711	4633	4404	3907	3361	3248	3169	-2.4
Lubes/Greases	1137	1250	1427	1347	2081	1900	2290	2000	-12.7
Bitumen	2584	2986	3373	3337	3508	3833	4506	4747	5.3
Petroleum Coke	1798	2563	2877	3129	4928	5441	5950	6166	3.6
Paraffin Wax	45	41	41	60	268	303	241	203	-15.8
Other Waxes	51	13	20	20	105	64	65	65	0.0
Others	775	715	710	1090	1411	1919	1799	1574	-12.5
TOTAL	**100432**	**104126**	**107751**	**111634**	**113213**	**120749**	**128946**	**133599**	**3.6**
Refinery Boiler Fuel	7273	7650	8240	8537	9141	10920	11751	11912	1.4
Grand Total	**107705**	**111776**	**115991**	**120171**	**122354**	**131669**	**140697**	**145511**	**3.4**
% age growth	**0.7**	**3.8**	**3.8**	**3.6**	**1.8**	**7.6**	**6.9**	**3.4**	

* :Provisional

Note: Consumption data includes private sales & private imports also.

Source: Petroleum Planning & Analysis Cell.

V.1(c) Product-wise Consumption of Petroleum Products by Public & Private Sector

(000' Tonnes)

	Products	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*	% Change 2008-09/ 2007-08
1	2	3	4	5	6	7	8	9	10	
	A. PUBLIC SECTOR									
1	**Light Distillates**	**22916**	**23567**	**25002**	**25317**	**24008**	**25350**	**26695**	**28943**	**8.4**
	LPG	7310	8143	9089	9967	9976	10530	11482	11927	3.9
	Motor Spirit	7011	7570	7895	8162	8254	8803	9875	11169	13.1
	Naphtha+NGL	8155	7316	7329	6550	5155	5327	4912	5471	11.4
	Others	440	538	689	638	623	690	425	376	-11.5
2	**Middle Distillates**	**50661**	**50555**	**50548**	**51919**	**50281**	**55189**	**61536**	**65936**	**7.2**
	SKO	10114	9707	9426	9395	9373	9412	9365	9303	-0.7
	ATF	2256	2269	2484	2811	3295	3982	4522	4363	-3.5
	HSDO	36515	36534	36875	38087	36308	40617	46443	51328	10.5
	LDO	1202	1413	1181	1085	834	720	667	552	-17.2
	Others	574	632	582	541	471	458	539	390	-27.6
3	**Heavy Ends**	**15515**	**16002**	**16580**	**17357**	**17413**	**17401**	**18912**	**18615**	**-1.6**
	Furnace Oil	7085	6941	7207	8055	8221	8186	8247	8004	-2.9
	LSHS	4531	4711	4633	4404	3907	3361	3248	3169	-2.4
	Lubes/Greases	819	938	816	779	892	878	1129	1015	-10.1
	Bitumen/Asphalt	2428	2847	3367	3318	3485	3818	4471	4516	1.0
	Petroleum Coke	367	335	308	445	496	645	1198	1224	2.2
	Paraffin Wax	45	41	41	60	55	67	80	65	-18.8
	Other Waxes	51	13	20	20	19	0	0	0	0.0
	Others	189	176	188	277	277	446	539	623	15.6
	Total (A) (Excl. RBF)	**89092**	**90124**	**92130**	**94593**	**91702**	**97940**	**107142**	**113493**	**5.9**
	B. PRIVATE SECTOR									
1	**Light Distillates**	**6702**	**8188**	**9333**	**9887**	**9654**	**11726**	**11862**	**10935**	**-7.8**
	LPG	418	208	216	278	480	319	683	418	-38.8
	Motor Spirit	0	0	2	89	393	482	456	89	-80.5
	Naphtha / NGL	3600	4645	4539	7443	7039	8559	8382	8439	0.7
	Others	2684	3335	4576	2077	1742	2366	2341	1989	-15.0
2	**Middle Distillates**	**778**	**1510**	**1475**	**1987**	**4141**	**2406**	**1287**	**443**	**-65.6**
	SKO	318	698	804	0	168	93	0	0	0.0
	ATF	0	0	0	0	1	1	21	60	185.7
	HSDO	31	110	199	1564	3883	2279	1226	383	-68.8
	LDO	390	650	438	391	49	0	0	0	0.0
	Others	39	52	34	32	40	33	41	0	-100.0
3	**Heavy Ends**	**3860**	**4230**	**4813**	**5167**	**7716**	**8677**	**8656**	**8728**	**0.8**
	Furnace Oil / LSHS	1366	1086	1105	1081	700	1071	1222	1415	15.8
	Lubes/Greases	318	312	611	568	1189	1022	1161	986	-15.1
	Bitumen	156	139	6	21	23	14	35	231	560.0
	Petroleum Coke	1431	2228	2569	2684	4432	4796	4752	4942	4.0
	Others	589	465	292	1056	1529	934	1486	1155	-22.3
	Total (B)	**11340**	**13928**	**15621**	**17041**	**21511**	**22809**	**21804**	**20106**	**-7.8**
	TOTAL (A+B)	100432	104052	107751	111634	113213	120749	128946	133599	3.6
	Refinery Boil Fuel	7273	7650	8240	8537	9141	10920	11751	11912	1.4
	Grand Total	**107705**	**111702**	**115991**	**120171**	**122354**	**131669**	**140697**	**145511**	**3.4**

*: Provisional $: included in others

Note: Private Sector data include private imports also.

Source: Petroleum Planning & Analysis Cell.

V.2 Sector-wise Consumption (end use) of Selected Petroleum Products

(Qty.'000'Tonnes)

Sector	2004-05		2005-06		2006-07		2007-08		2008-09*	
	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total
1	2	3	4	5	6	7	8	9	10	11
					LPG					
1.Domestic	9748	95.1	9820	93.9	10427	96.1	11173	91.8	10637	93.6
2.Commercial/Industry	73	0.7	0	0.0	0	0.0	0	0.0	0	0.0
3.Transport sector	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4.Power Generation	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5.Agricultural sector	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
6.Mining	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
7.Manufacturing										
i) Chemicals	89	0.9	92	0.9	8	0.1	6	0.0	6	0.1
ii) Engineering	5	0.0	6	0.1	2	0.0	0	0.0	0	0.0
iii) Metallurgical	22	0.2	24	0.2	19	0.2	67	0.6	68	0.6
iv) Textiles	2	0.0	2	0.0	0	0.0	0	0.0	0	0.0
v) Consumer & Ind.Goods	10	0.1	11	0.1	2	0.0	19	0.2	18	0.2
Sub Total	128	1.2	**135**	1.3	**31**	0.3	**93**	0.8	**92**	0.8
8.Miscellaneous	18	0.2	21	0.2	66	0.6	220	1.8	223	2.0
Total PSU	9967	97.3	9976	95.4	10524	97.0	11489	94.4	10952	96.4
9. Pvt. Party sales	**278**	2.7	480	4.6	330	3.0	**676**	5.6	**409**	3.6
TOTAL	**10245**	100.0	**10456**	100.0	**10854**	100.0	**12165**	100.0	**11361**	100.0
					SKO (Kerosene)					
1.Domestic	9287	98.9	9267	97.1	9203	96.8	9163	97.8	9131	49.1
2.Commercial/Industry	25	0.3	24	0.3	50	0.5	185	2.0	43	0.2
3.Others	83	0.9	82	0.9	159	1.7	17	0.2	129	0.7
Total PSU	9395	100.0	9373	98.2	9412	99.0	9365	100.0	9303	50.0
4. Pvt. Party sales	**0**	0.0	**168**	1.8	**93**	1.0	**0**	0.0	**0**	0.0
TOTAL	**9395**	100.0	**9541**	100.0	**9505**	100.0	**9365**	100.0	**18606**	100.0
					NAPHTHA					
1. Fertilizers	3165	22.6	2249	18.4	1980	14.5	1689	12.7	1803	7.7
2. Petrochemicals	1243	8.9	1490	12.2	1197	8.8	6048	45.5	1328	5.6
3. Power Plants	961	6.9	629	5.2	660	4.8	753	5.7	1147	4.9
4. Steel Plants	120	0.9	55	0.5	33	0.2	54	0.4	71	0.3
5. Others	1061	7.6	732	6.0	1100	8.1	332	2.5	5255	22.3
Total PSU	**6550**	46.8	**5155**	42.3	**4970**	36.4	**8876**	66.8	**9604**	40.8
6. Pvt. Party sales	**7443**	53.2	**7039**	57.7	**8669**	63.6	**4417**	33.2	**4307**	18.3
TOTAL	**13993**	100.0	**12194**	100.0	**13639**	100.0	**13294**	100.0	**23515**	100.0

Cont'd...

* : Provisional

V.2 Sector-wise Consumption (end use) of Selected Petroleum Products

(Qty.'000'Tonnes)

Sector	2004-05		2005-06		2006-07		2007-08*		2008-09*	
	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total
1	2	3	4	5	6	7	8	9	10	11
					HSDO					
1. TRANSPORT										
i) Road Transport	20583	51.9	19335	48.1	21611	50.4	23547	49.8	27739	53.6
ii) Aviation	38	0.1	15	0.0	9	0.0	1	0.0	2	0.0
iii) Shipping	259	0.7	351	0.9	341	0.8	142	0.3	745	1.4
iv) Railways	1625	4.1	1877	4.7	1856	4.3	351	0.7	2166	4.2
Sub total (1)	**22505**	56.8	**21578**	53.7	**23817**	55.6	**24041**	50.8	**30652**	59.3
2. PLANTATION/FOOD										
i) Sugar Mills	75	0.2	92	0.2	110	0.3	51	0.1	0	0.0
ii)Others(incl.Plan. of Food)	7404	18.7	6923	17.2	7804	18.2	8960	18.9	10134	19.6
Sub total (2)	**7479**	18.9	**7015**	17.5	**7914**	18.5	**9011**	19.1	**10134**	19.6
3. Power Generation	**2769**	7.0	**2683**	6.7	**2894**	6.8	**3020**	6.4	**3537**	6.8
4. Mining & Quarrying	**660**	1.7	**642**	1.6	**714**	1.7	**369**	0.8	**1025**	2.0
5. Manufacture Industry										
i) Iron & Steel(Metallur.)	99	0.2	118	0.3	130	0.3	84	0.2	217	0.4
ii) Textile & Fibre	127	0.3	152	0.4	267	0.6	41	0.1	92	0.2
iii) Cement	77	0.2	80	0.2	104	0.2	153	0.3	0	0.0
iv) Ceremic & Glass	20	0.1	15	0.0	16	0.0	10	0.0	0	0.0
v) Chemicals & Allied	78	0.2	62	0.2	83	0.2	58	0.1	117	0.2
vi) Aluminium	4	0.0	3	0.0	3	0.0	3	0.0	0	0.0
viii) Engg. (Mech. & Elec.)	138	0.3	151	0.4	205	0.5	75	0.2	123	0.2
ix) Fertilizers	19	0.0	14	0.0	7	0.0	2	0.0	0	0.0
x) Other Industries & Construction	1314	3.3	1209	3.0	1373	3.2	1173	2.5	1991	3.9
Sub total (5)	**2536**	6.4	**2446**	6.1	**2902**	6.8	**1599**	3.4	**2540**	4.9
5. Misc. Services	**2798**	7.1	**2586**	6.4	**3091**	7.2	**9495**	20.1	**3760**	7.3
Total PSU)	**38087**	96.1	**36308**	90.3	**40618**	94.8	**47166**	99.7	**51648**	99.9
6. Private Party sales	**1564**	3.9	**3883**	9.7	**2248**	5.2	**134**	0.3	**62**	0.1
Total	**39651**	100.0	**40191**	100.0	**42866**	100.0	**47300**	100.0	**51710**	100.0

Cont'd...

*: Provisional.

V.2 Sector-wise Consumption (end use) of Selected Petroleum Products

(Qty.'000'Tonnes)

Sector	2004-05		2005-06		2006-07		2007-08		2008-09*	
	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total
1	2	3	4	5	6	7	8	9	10	11
					LDO					
1. TRANSPORT										
i) Road Transport	0	0.0	0	0.0	0	0.0	0	0.0	14	2.5
ii) Aviation	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
iii) Shipping	46	3.1	49	5.5	50	6.9	33	5.0	13	2.4
iv) Railways	3	0.2	3	0.3	3	0.4	2	0.3	2	0.4
v) Other Transport (incl. Agri. Retail Trade)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Sub total (1)	**49**	3.3	**49**	5.5	**53**	7.4	**35**	5.3	**29**	5.3
2. PLANTATION/FOOD		0.0								
i) Sugar Mills	2	0.1	2	0.2	1	0.1	3	0.5	0	0.0
ii)Others(incl.Plan.of Food)	35	2.4	26	2.9	12	1.7	0	0.0	10	1.8
Sub total (2)	**37**	2.5	**28**	3.2	**13**	1.8	**3**	0.5	**10**	1.8
3. Power Generation	**88**	6.0	**65**	7.4	**67**	9.3	**77**	11.6	**176.3**	31.9
4. Mining & Quarrying	5	0.3	12	1.4	7	0.8	2	0.3	**5**	0.9
5. Manufacture Industry										
i) Iron & Steel	107	7.2	86	9.7	74	10.3	109	16.4	0	0.0
ii) Textile & Fibre	50	3.4	26	2.9	22	3.1	5	0.8	2	0.4
iii) Cement	8	0.5	8	0.9	7	1.0	34	5.1	0	0.0
iv) Ceremic & Glass	23	1.6	13	1.5	4	0.6	4	0.6	0	0.0
v) Chemicals & Allied	78	5.3	54	6.1	33	4.6	17	2.6	16	2.9
vi) Aluminium	1	0.1	3	0.3	2	0.3	4	0.6	0	0.0
viii) Engg. (Mech. & Elec.)	57	3.9	45	5.1	41	5.7	28	4.2	22	4.0
ix) Fertilizers	0	0.0	0	0.0	0	0.0	0	0.0		0.0
x) Other Industries & Construction	292	19.8	175	19.8	60	36.3	0	0.0	132.6	24.0
Sub total (5)	**621**	42.1	**422**	47.8	**243**	62.5	**201**	30.2	**172.6**	31.3
6. Misc. Services	**290**	19.6	**270**	30.6	**337**	46.8	**349.4**	52.5	**159**	28.8
Total PSU	**1085**	73.5	**834**	94.5	**720**	100.0	**665.4**	100.0	**552**	100.0
7. Private Party sales	**391**	26.5	**49**	5.5	**0**	0.0	**0**	0.0	**0**	0.0
Total	**1476**	100.0	**883**	100.0	**720**	100.0	**665.4**	100.0	**552**	100.0

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* : Provisional

V.2 Sector-wise Consumption (end use) of Selected Petroleum Products

(Qty.'000'Tonnes)

Sector	2004-05		2005-06		2006-07		2007-08		2008-09*	
	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total
1	2	3	4	5	6	7	8	9	10	11
					Furnace Oil(FO)					
1. TRANSPORT										
i) Road Transport	0	0.0	0	0.0	0	0.0	55	0.6	343	3.6
ii) Aviation	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
iii) Shipping	180	2.0	237	2.7	276	3.0	260	2.7	431	4.6
iv) Railways	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
v) Other Transport (incl. Agri. Retail Trade)	172	1.9	241	2.7	226	2.4	0	0.0	0	0.0
Sub total (1)	**352**	3.9	**478**	5.4	**502**	5.4	**315**	3.3	**778**	8.3
2. PLANTATION/FOOD										
i) Sugar Mills	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ii)Others(incl.Plan. of Food)	0	0.0	0	0.0	0	0.0	0	0.0	172	1.8
Sub total (2)	**0**	0.0	**0**	0.0	**0**	0.0	**0**	0.0	**172**	1.8
3. Power Generation	**314**	3.4	**302**	3.4	**254**	2.7	**281**	3.0	**788**	8.4
4. Mining & Quarrying	-	0.0	-	0.0	0	0.0	1	0.0	**35**	0.4
5. Industry										
i) Iron & Steel	789	8.6	849	9.5	853	9.2	820	8.7	1040	11.0
ii) Textile & Fibre	3	0.0	28	0.3	24	0.3	15	0.2	71	0.8
iii) Cement	3	0.0	22	0.2	1	0.0	5	0.1	0	0.0
iv) Ceremic & Glass	1	0.0	0	0.0	0	0.0	4	0.0	0	0.0
v) Chemicals & Allied	208	2.3	303	3.4	297	3.2	750	7.9	878	9.3
vi) Aluminium	3	0.0	38	0.4	57	0.6	35	0.4	0	0.0
viii) Engg. (Mech. & Elec.)	4	0.0	16	0.2	21	0.2	5	0.1	54	0.6
ix) Fertilizers	542	5.9	550	6.2	557	6.0	0	0.0	0	0.0
x) Other Industries & Construction	9	0.1	22	0.2	20	0.2	0	0.0	815	8.7
Sub total (5)	**1562**	17.1	**1828**	20.5	**1830**	19.7	**1634**	17.3	**2858**	30.3
6. Misc. Services	**5827**	63.8	**5613**	62.9	**5600**	60.4	**6399**	67.6	**3874**	41.1
Total (PSU)	**8055**	88.2	**8221**	92.2	**8186**	88.4	**8629**	91.1	**8505**	90.3
7. Private Party sales @	**1081**	11.8	**700**	7.8	**1071**	11.7	**839**	8.9	**913**	9.7
Total	**9136**	100.0	**8921**	100.0	**9257**	100.0	**9468**	100.0	**9418**	100.0

Cont'd...

*: Provisional

@: LSHS sales by private parties included in FO sales

V.2 Sector-wise Consumption (end use) of Selected Petroleum Products

(Qty.'000'Tonnes)

Sector	2004-05		2005-06		2006-07		2007-08		2008-09*	
	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total	Cons-umption	% to Total
1	2	3	4	5	6	7	8	9	10	11
					LSHS/HHS					
1. TRANSPORT	**0**	0.0	**0**	0.0	**0**	0.0	**0**	0.0	**46**	1.5
2. PLANTATION/FOOD										
i) Sugar Mills	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ii)Others(incl.Plan. of Food)	0	0.0	0	0.0	0	0.0	0	0.0	19	0.6
Sub total (2)	**0**	0.0	**0**	0.0	**0**	0.0	**0**	0.0	**19**	0.6
3. Power Generation	**1238**	28.1	**560**	14.3	**298**	8.9	**344**	10.6	**1353**	42.7
4. Mining & Quarrying	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**
5. Industry										
i) Iron & Steel	27	0.6	29	0.7	21	0.6	65	2.0	76	2.4
ii) Textile & Fibre	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
iii) Cement	2	0.0	5	0.1	0	0.0	0	0.0	0	0.0
iv) Ceremic & Glass	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
v) Chemicals & Allied	91	2.1	45	1.2	31	0.9	1239	38.1	1197	37.8
vi) Aluminium	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
vii) Mining & Quarrying	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
viii) Engg. (Mech. & Elec.)	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
ix) Fertilizers	1312	29.8	1295	33.2	1267	37.7	0	0.0	0	0.0
x) Other Industries & Construction	20	0.5	16	0.4	39	1.2	0	0.0	18	0.6
Sub total (5)	**1453**	33.0	**1390**	35.6	**1358**	40.4	**1304**	40.1	**1295**	40.9
6. Misc. Services	**1713**	38.9	**1957**	50.1	**1705**	50.7	**1600**	49.3	**456**	14.4
Total (PSU)	**4404**	100.0	**3907**	100.0	**3361**	100.0	**3248**	100.0	**3169**	100.0
7. Private Party sales	@		@	0.0	0	0.0	0	0.0	0	0.0
Total	**4404**	100.0	**3907**	100.0	**3361**	100.0	**3248**	100.0	**3169**	100.0

*: Provisional.

Source: PPAC's Oil Industry Sales Statistics

V.3 Consumption of Petroleum Products and Market Share of Oil Companies in India

(Qty. ' 000' Tonnes)

Year	Consumption	IOC	BPCL/ KRL	HPCL	IBP	Other Companies	Private #	TOTAL
1	2	3	4	5	6	7	8	9
2001-02	Consumption	47151	19047	17499	3747	1648	11340	100432
	%	46.9	19.0	17.4	3.7	1.6	11.3	100.0
2002-03	Consumption	46336	19843	18228	3769	1948	14002	104126
	%	44.5	19.1	17.5	3.6	1.9	13.4	100.0
2003-04	Consumption	46778	20297	18577	4162	2316	15621	107751
	%	43.4	18.8	17.2	3.9	2.1	14.5	100.0
2004-05	Consumption	48018	20697	19091	4594	2193	17041	111634
	%	43.0	18.5	17.1	4.2	2.0	15.3	100.0
2005-06	Consumption	46160	20477	18309	4316	2440	21511	113213
	%	40.8	18.1	16.2	3.8	2.2	19.0	100.0
2006-07	Consumption	53425	22661	19698	$	2156	22809 #	120749
	%	44.2	18.8	16.3		1.8	18.9	100.0
2007-08	Consumption	57956	24866	22056	$	2264	21804 #	128946
	%	44.9	19.3	17.1		1.8	16.9	100.0
2008-09*	Consumption	61363	26324	23712	$	2094	20106 #	133599
	%	45.9	19.7	17.7		1.6	15.0	100.0

Note : Consumption excludes RBF

*:Provisional

$: IBP has been merged with IOC

Others companies include BRPL,CPCL,GAIL,MRPL,NRL and ONGC

: Private consumption figures includes pvt. imports also.

Source: Petroleum Planning & Analysis Cell.

V.4 Deliveries Made to International/Coastal Bunkers

(Qty. ' 000 ' Tonnes)

Items	2001-02	2002-03	2003-04	2004-05	005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
INTERNATIONAL BUNKERS								
F.O	28.6	25.2	47.0	21.1	17.9	12.3	33.8	127.1
H.S.D	3.0	2.9	2.8	3.5	4.8	2.3	14.9	17.0
L.D.O	6.3	2.8	12.1	3.7	4.5	1.4	0.1	1.3
TOTAL	**37.9**	**30.9**	**61.9**	**28.3**	**27.2**	**16.0**	**48.8**	**145.4**
COASTAL BUNKERS								
F.O	170.5	105.6	96.0	171.5	234.3	264.8	353.4	362.4
H.S.D	217.7	177.8	173.2	185.3	239.7	239.4	23.4	586.1
L.D.O	25.2	16.2	23.0	34.3	43.0	48.8	39.7	17.5
TOTAL	**413.4**	**299.6**	**292.2**	**391.1**	**517**	**553.0**	**416.5**	**966.0**
TOTAL BUNKERS :								
F.O	199.1	130.9	143.0	192.6	252.2	277.1	387.2	489.5
H.S.D	220.7	180.7	176.0	188.8	244.5	241.7	38.3	603.1
L.D.O	31.5	19.0	35.1	37.9	47.5	50.2	39.8	18.7
TOTAL	**451.3**	**330.6**	**354.1**	**419.3**	**544.2**	**569.0**	**465.3**	**1111.3**

* Provisional

Source: Petroleum Planning & Analysis Cell.

V.5 State-wise Consumption of Major Petroleum Products During 2008-09

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol/ MS	SKO	ATF	Diesel/ HSD	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A. States													
Region: North													
Jammu & Kashmir	0	122	102	156	46	423	5	16	0	7	56	49	982
Punjab	0	574	503	235	50	2631	10	368	505	29	176	330	5411
Rajasthan	273	530	527	400	70	3298	13	237	4	29	340	2169	7890
Uttar Pradesh	441	1251	975	1244	104	5260	28	523	22	51	535	315	10749
Haryana	489	457	481	145	25	3580	9	304	350	28	212	220	6300
Himachal Pradesh	0	93	77	50	7	372	1	49	4	6	39	63	761
Uttarakhand	0	155	120	92	1	455	16	111	13	8	49	7	1027
Chandigarh	0	36	75	9	38	74	0	6	5	1	5	13	262
Delhi	0	642	762	142	1145	1221	8	75	3	16	44	14	4073
Total	**1205**	**3860**	**3623**	**2473**	**1486**	**17314**	**90**	**1688**	**906**	**177**	**1457**	**3177**	**37456**
Region: North East													
Assam	14	179	113	260	75	570	0	10	16	8	48	225	1518
Manipur	0	17	21	20	4	51	0	0	0	0	10	1	124
Meghalaya	0	14	35	21	0	234	0	0	0	1	15	4	324
Nagaland	0	14	17	14	1	29	0	0	0	0	10	1	86
Tripura	0	19	19	31	8	60	0	0	0	1	22	0	159
Arunachal Pradesh	0	11	15	13	2	58	0	0	0	1	9	1	110
Mizoram	0	18	13	6	0	34	1	1	0	0	8	0	80
Total	**14**	**272**	**233**	**365**	**89**	**1037**	**1**	**11**	**16**	**11**	**122**	**230**	**2400**
Region: East													
Bihar	0	283	185	653	8	1425	6	55	0	9	195	172	2991
Orissa	0	159	234	324	23	1412	23	357	0	22	69	30	2653
West Bengal	364	607	308	756	173	2139	142	438	0	74	144	103	5248
Jharkhand	0	114	164	211	11	1033	26	98	0	27	80	6	1770
Sikkim	0	9	8	12	0	34	2	0	0	0	2	0	67
Andaman & Nikobar	0	6	8	6	16	93	0	0	0	1	4	0	134
Total	**364**	**1177**	**907**	**1962**	**231**	**6136**	**199**	**948**	**0**	**133**	**494**	**312**	**12863**

* Provisional

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V.5 State-wise Consumption of Major Petroleum Products During 2008-09

('000' Tonnes)

State/UT	Naphtha	LPG	Petrol	SKO	ATF	Diesel	LDO	FO	LSHS/ HHS	Lubes & Greases	Bitumen	Others	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region: West													
Goa	275	54	84	19	70	378	1	160	0	4	21	4	1070
Gujarat	4714	676	804	750	105	3081	47	1308	763	48	488	2959	15743
Madhya Pradesh	77	473	470	491	34	2072	15	164	0	29	279	325	4429
Maharashtra	923	1814	1586	1286	1204	5558	132	1438	649	282	387	561	15820
Chhattisgarh	0	119	177	146	11	903	16	255	13	18	123	11	1792
Dadra & Nagarhav.	0	13	12	4	0	64	2	89	0	62	5	11	262
Daman & Diu	0	7	13	2	1	49	0	13	0	1	3	4	93
Total	**5990**	**3157**	**3146**	**2698**	**1425**	**12105**	**213**	**3428**	**1425**	**444**	**1306**	**3872**	**39209**
Region: South													
Andhra Pradesh	523	972	850	519	258	5266	17	371	94	61	341	118	9390
Kerala	609	524	608	219	228	1656	1	234	145	39	143	66	4472
Tamilnadu	571	1130	1051	591	375	4600	10	1165	469	102	536	255	10855
Karnataka	327	813	767	463	331	3199	18	615	109	46	242	56	6986
Lakshdeep	0	0	0	1	0	16	1	1	0	0	0	0	19
Pondicherry	0	31	72	12	0	321	2	46	4	2	1	2	493
Total	**2030**	**3470**	**3349**	**1805**	**1192**	**15057**	**49**	**2432**	**822**	**250**	**1263**	**496**	**32215**
Total(PSU+Pvt.)	**9604**	**11935**	**11258**	**9303**	**4423**	**51649**	**552**	**8506**	**3169**	**1015**	**4642**	**8086**	**124142**
Private Imports	**4307**	**409**	**0**	**0**	**0**	**61**	**0**	**913**	**0**	**985**	**105**	**2677**	**9457**
Grand Total	**13911**	**12344**	**11258**	**9303**	**4423**	**51710**	**552**	**9419**	**3169**	**2000**	**4747**	**10763**	**133599**

Note: Some totals may not tally due to individual rounding.

*: Provisional

Source: Petroleum Planning and Analysis Cell, New Delhi.

V.6 State-wise Per Capita Sales of Petroleum Products

(Unit: Kg)

State/UT	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
A. States								
1. Andhra Pradesh	83.5	84.5	85.9	86.4	78.8	84.6	100.9	112.9
2. Arunachal Pradesh	77.0	79.7	80.0	83.6	82.3	81.3	89.3	90.8
3. Assam	46.4	42.9	46.3	50.6	47.7	46.0	48.7	50.9
4. Bihar	27.8	25.1	26.7	26.6	24.4	25.0	28.2	31.5
5. Chhattisgarh	44.0	47.2	50.0	61.5	59.9	62.6	70.1	75.9
6. Delhi	223.9	226.4	237.2	253.5	228.3	260.4	248.2	233.6
7. Goa	595.2	589.3	656.9	743.1	631.0	651.4	653.5	646.5
8. Gujarat	176.3	169.4	164.5	161.9	135.0	136.4	138.5	274.1
9. Haryana	176.7	180.4	179.7	188.6	178.0	193.5	236.2	256.1
10. Himachal Pradesh	87.4	89.8	88.4	92.5	91.8	95.9	110.1	114.2
11. Jammu & Kashmir	65.5	69.3	71.1	74.3	75.1	77.5	84.5	86.0
12. Jharkhand	41.1	52.0	52.5	58.8	54.8	51.0	53.6	57.8
13. Karnataka	92.1	93.4	98.7	102.0	96.6	102.7	112.0	120.1
14. Kerala	107.5	120.8	129.2	112.7	105.6	107.1	113.6	131.3
15. Madhya Pradesh	57.5	57.9	62.1	62.7	51.9	52.9	54.7	63.4
16. Maharashtra	128.4	127.0	128.8	133.1	128.0	132.1	145.7	144.4
17. Manipur	27.6	59.4	40.0	42.7	42.1	40.5	47.4	51.8
18. Meghalaya	72.4	82.0	95.2	101.3	98.0	98.5	108.7	126.6
19. Mizoram	64.0	68.5	74.4	72.2	75.9	73.8	77.3	81.5
20. Nagaland	29.2	32.7	34.5	44.0	40.6	40.3	38.2	39.1
21. Orissa	44.5	49.5	50.2	54.9	51.6	52.2	61.0	66.3
22. Pondicherry	260.8	299.8	327.0	377.0	382.2	422.4	407.0	389.1
23. Punjab	184.2	182.9	180.9	189.0	169.4	179.8	189.1	200.1
24. Rajasthan	88.1	92.4	96.6	96.9	76.1	86.1	93.0	120.2
25. Sikkim	74.1	98.1	126.0	110.0	109.0	89.2	96.4	112.0
26. Tamilnadu	131.1	135.9	134.3	136.2	129.6	131.0	148.7	163.1
27. Tripura	34.2	37.0	37.8	36.6	37.4	39.0	40.4	45.0
28. Uttar Pradesh	53.7	54.7	57.5	59.5	53.3	50.9	51.4	55.5
29. Uttarakhand	80.3	80.0	84.6	88.7	85.6	92.4	101.0	106.4
30. West Bengal	63.6	58.5	57.8	60.5	55.6	54.5	58.9	59.7
B.Union Territories								
1. Chandigarh	225.3	226.4	230.0	245.6	211.4	212.4	189.1	208.4
2. Daman&Diu& Dadra&Nagar Haveli	529.1	754.0	820.0	965.0	739.6	636.8	642.5	627.2
3. Others	172.7	232.6	178.0	228.0	240.0	273.7	296.2	261.6
Total All India	**104.9**	**108.1**	**112.9**	**116.8**	**111.7**	**115.5**	**93.6**	**106.9**

Note: State-wise per capita sales includes private sales but does not include private imports.

Per Capita Sales of Selected Petroleum Products

(Unit : Kg)

Product	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
Naphatha	11.4	11.5	7.1	13.6	11.1	11.3	11.6	8.3
MS	6.8	7.3	7.7	8.0	7.9	8.2	9.0	9.7
SKO	10.2	10.1	9.2	9.1	8.7	8.4	8.2	8.0
HSDO	35.6	35.5	35.9	38.5	36.7	37.9	41.6	44.5
LDO	1.6	2.0	1.1	1.4	0.8	0.6	0.6	0.5
F.O (Regular)	8.2	7.8	7.0	8.9	8.1	8.2	8.3	7.3
LSHS/HHS	4.4	4.6	4.5	4.3	3.6	3.0	2.8	2.7
Total All India Sales @	**104.9**	**108.1**	**112.9**	**116.8**	**111.7**	**115.5**	**112.6**	**106.9**

Note: Projected Population for the year 2008-09 taken from RGI website.

* : Provisional @: included private sales but does not include private imports.

Source: Petroleum Planning and Analysis Cell, New Delhi.

Trade

VI.1 Import / Export of Crude Oil and Petroleum Products

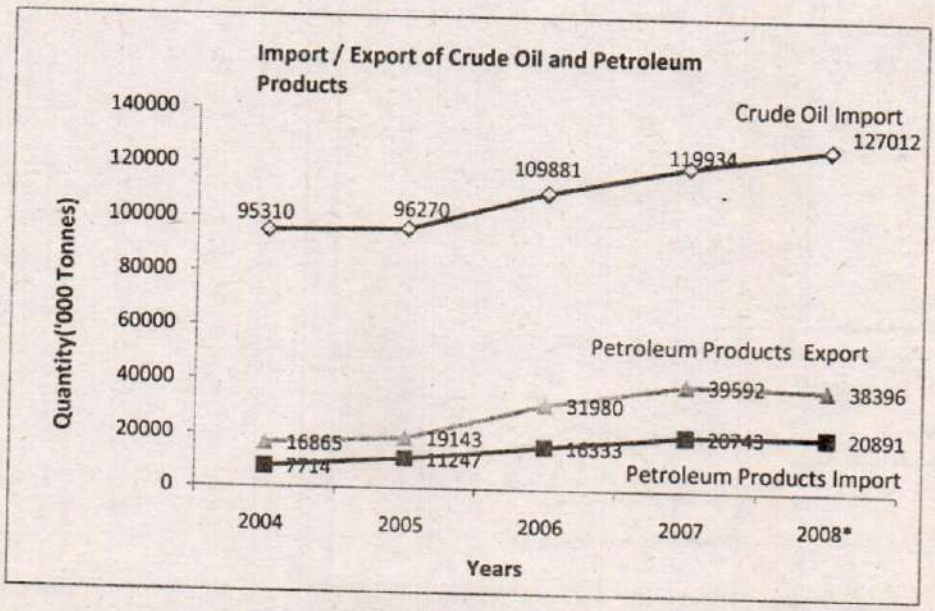
Calender Years

(Qty. '000' Tonnes, Value:Rs. Crores)

Year	Crude Oil		Petroleum Products		Total	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
			Gross Import			
2001	77554	61781	7574	8462	85128	70243
2002	81907	69522	7040	7655	88947	77177
2003	87027	81161	7374	9103	94401	90264
2004	95310	108774	7714	12062	103024	120836
2005	96270	153217	11247	23304	107517	176521
2006	109881	219447	16333	38305	126214	257752
2007	119934	242707	20743	51723	140677	294430
2008*	127012	372437	20891	72630	147903	445067
			Export			
2001	-	-	9657	8131	9657	8131
2002	-	-	10055	9243	10055	9243
2003	-	-	13915	15791	13915	15791
2004	-	-	16865	25611	16865	25611
2005	-	-	19143	39610	19143	39610
2006	-	-	31980	77732	31980	77732
2007	-	-	39592	100521	39592	100521
2008*	-	-	38396	131087	38396	131087
			Net Import			
2001	77554	61781	-2083	331	75471	62112
2002	81907	69522	-3015	-1588	78892	67934
2003	87027	81161	-6541	-6688	80486	74473
2004	95310	108774	-9151	-13549	86159	95225
2005	96270	153217	-7896	-16306	88374	136911
2006	109881	219447	-15647	-39427	94234	180020
2007	119934	242707	-18849	-48798	101085	193909
2008*	127012	372437	-17505	-58457	109507	313980

*: Provisional.

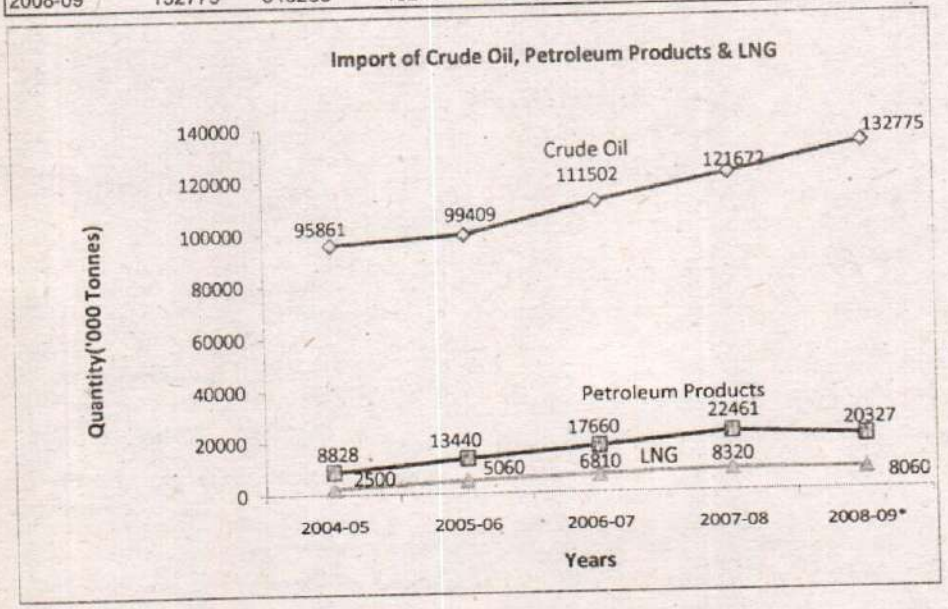
Source: Petroleum Planning & Analysis Cell, New Delhi.



VI.2 Import/Export of Crude Oil and Petroeum Products

(Qty: '000' Tonnes, Value: Rs. Crores)

Year	Crude Oil		Petroleum Products		LNG		Total	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
				Gross Imports				
2001-02	78706	60397	7009	7249	-	-	85715	67646
2002-03	81989	76195	7228	8847	-	-	89217	85042
2003-04	90434	83528	8001	9723	-	-	98435	93251
2004-05	95861	117003	8828	14887	2500	1696	107189	133586
2005-06	99409	171702	13440	27972	5060	3366	117909	203040
2006-07	111502	219029	17660	41160	6810	5650	135972	265839
2007-08	121672	272699	22461	61000	8320	7197	152453	340896
2008-09*	132775	348288	20327	64269	8060	9548	161162	422105
				Exports				
2001-02	-	-	10065	8219	-	-	10065	8219
2002-03	-	-	10289	10868	-	-	10289	10868
2003-04	-	-	14620	16781	-	-	14620	16781
2004-05	-	-	18211	29928	-	-	18211	29928
2005-06	-	-	23460	49974	-	-	23460	49974
2006-07	-	-	33624	81094	-	-	33624	81094
2007-08	-	-	40779	110789	-	-	40779	110789
2008-09*	-	-	38572	121086	-	-	38572	121086
				Net Imports				
2001-02	78706	60397	-3056	-970	-	-	75650	59427
2002-03	81989	76195	-3061	-2021	-	-	78928	74174
2003-04	90434	83528	-6619	-7058	-	-	83815	76470
2004-05	95861	117003	-9383	-15041	2500	1696	88978	103658
2005-06	99409	171702	-10020	-22002	5060	3366	94449	153066
2006-07	111502	219029	-15964	-39934	6810	5650	102348	184745
2007-08	121672	272699	-18318	-49789	8320	7197	111674	230107
2008-09*	132775	348288	-18245	-56817	8060	9548	122590	301019



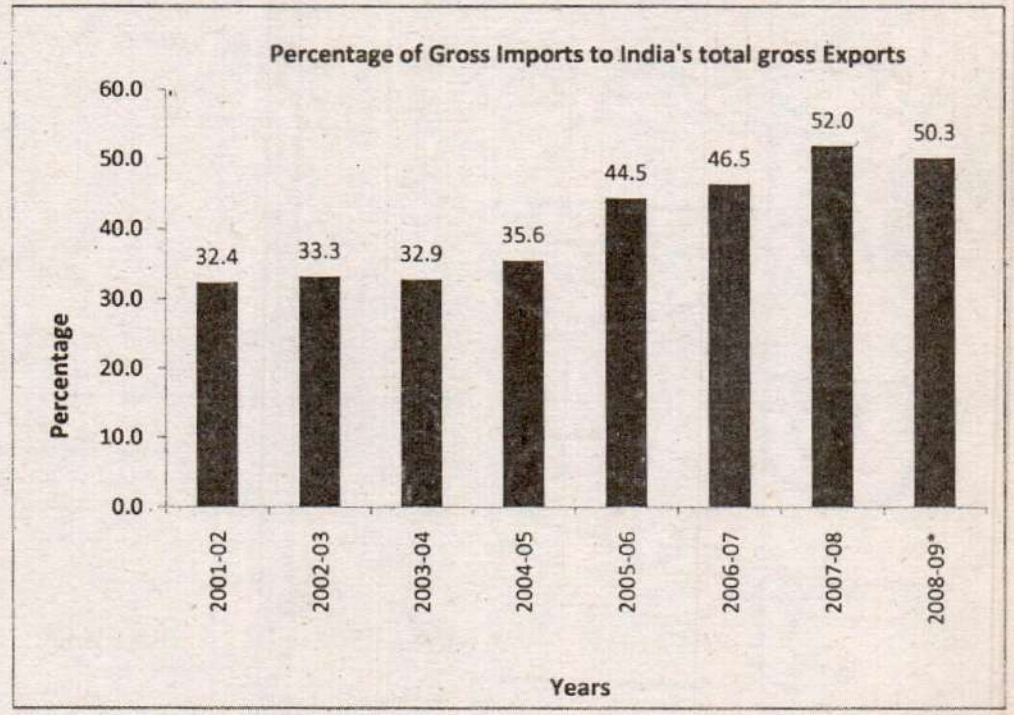
*: Provisional.

Source: Petroleum Planning & Analysis Cell, New Delhi.

VI. 3 India's POL Imports as a proportion to overall Exports

(Rs. Crores)

Year	POL Imports		India's Total Exports		Gross POL Imports as % age of total Gross Exports	Net POL Imports as % age of total Net Exports
	Gross	Net	Gross	Net of POL Exports		
1	*2*	*3*	*4*	*5*	*6*	*7*
2001-02	67646	59427	209018	200733	32.4	29.6
2002-03	85042	74174	255137	244269	33.3	30.4
2003-04	93251	76470	283604	266823	32.9	28.7
2004-05	133587	103659 $	375340	345412	35.6	30.0
2005-06	203040	153066 $	456418	406444	44.5	37.7
2006-07	265839	184745 $	571779	490685	46.5	37.7
2007-08	340895	230107 $	655864	545075	52.0	42.2
2008-09*	422105	301019 $	839978	649477	50.3	46.3



Note: $: LNG Import included in Gross & Net from 2005-06 & onwards. *: Provisional

Source:(i) DGCI&S's Foreign Trade Statistics (ii) Petroleum Planning & Analysis Cell

VI.4 Import / Export of Crude Oil and Petroleum Products

(Qty :'000' Tonnes)
(Value : Rs.Crores)

ITEM	2004		2005		2006		2007		2008*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9	10	11
				Gross Import						
A. Crude Oil	**95310**	**108774**	**96270**	**153217**	**109881**	**219447**	**119934**	**242707**	**127012**	**372437**
B. Pol.Products										
I.Light Distillates	**5212**	**9107**	**6560**	**14305**	**7487**	**20161**	**9001**	**25564**	**8701**	**32417**
1. LPG	2408	4402	2838	6019	2218	5798	2627	7284	2591	9433
2.MS	0	0	637	1623	397	1266	277	836	454	1860
3. Naphtha	2245	3800	2519	5598	4777	12841	5829	16772	5363	20125
4.Propane	559	905	536	1064	95	255	268	672	293	999
II.Middle Distillates	**196**	**305**	**2441**	**5560**	**2019**	**6022**	**4297**	**12797**	**4854**	**20072**
1.ATF	2	13	3	15	2	19	2	14	3	34
2.SKO	0	0	976	2320	1257	3846	2254	7159	1773	7958
3.HSD	194	292	1462	3226	760	2157	2041	5624	3078	12080
III.Heavy Ends	**2306**	**2650**	**2246**	**3439**	**6827**	**12122**	**7445**	**13362**	**7336**	**20141**
1.FO / LSHS	751	673	718	878	2734	4845	1419	2367	1439	3419
2.Lubes / Others	1555	1977	1528	2561	4093	7277	6026	10995	5897	16722
Total(B)	**7714**	**12062**	**11247**	**23304**	**16333**	**38305**	**20743**	**51723**	**20891**	**72630**
Grand Total(A+B)	**103024**	**120836**	**107517**	**176521**	**126214**	**257752**	**140677**	**294430**	**147903**	**445067**
				Export						
Pol.Products										
I.Light Distillates	**5874**	**10205**	**6538**	**14663**	**11635**	**30651**	**13691**	**38500**	**13481**	**48057**
1.Naphtha	2658	4394	4083	9160	7742	19641	9586	26450	7884	27706
2.MS	2858	5211	2185	4912	3453	9731	3852	11298	5364	19406
3.TAME	0	0	10	25	0	0	0	0	0	0
4.Reformate	358	600	155	355	334	953	157	427	129	432
5.LPG	0	0	105	212	106	326	96	325	104	513
II.Middle Distillates	**9132**	**13816**	**10259**	**22230**	**14961**	**39444**	**18211**	**48252**	**17301**	**67218**
1.HSD	6943	10220	7559	15784	11469	29334	13584	35328	13543	51956
2.ATF	2189	3596	2612	6184	3343	9573	4489	12457	3663	14805
3.SKO	0	0	88	262	149	537	138	467	95	457
III.Heavy Ends	**1859**	**1590**	**2539**	**3190**	**5384**	**7637**	**7690**	**13769**	**7614**	**15812**
1.FO/LSHS	1717	1403	1816	1892	3547	4748	3727	5570	6460	12628
2.Others	142	187	723	1298	1837	2889	3963	8199	1154	3184
Total	**16865**	**25611**	**19336**	**40084**	**31980**	**77732**	**39592**	**100521**	**38396**	**131087**
				Net Import						
A. Crude Oil	**95310**	**108774**	**96270**	**153217**	**109881**	**219447**	**119934**	**242707**	**127012**	**372437**
B. Pol.Products	**-9151**	**-13549**	**-8089**	**-16780**	**-15647**	**-39428**	**-18849**	**-48798**	**-17505**	**-58457**
Grand Total(A+B)	**86159**	**95225**	**88181**	**136437**	**94234**	**180020**	**101085**	**193909**	**109507**	**313980**

TAME: Tertiary Amyl Methyl Ether.

*: Provisional

Source: Petroleum Planning & Analysis Cell, New Delhi.

VI.5. Imports / Exports of Crude Oil and Petroleum Products

(Qty :'000' Tonne, Value : Rs.Crore)

ITEM	2004-05		2005-06		2006-07		2007-08		2008-09*	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7	8	9	10	11
Gross Imports										
A. Crude Oil	**95861**	**117003**	**99409**	**171702**	**111502**	**219029**	**121672**	**272699**	**132775**	**348288**
B .LNG	**2500**	**1696**	**5060**	**3366**	**6810**	**5650**	**8320**	**7197**	**8060**	**9548**
C. Petroleum Products										
I.Light Distillates	**5391**	**9973**	**6181**	**14855**	**8005**	**21369**	**9485**	**29221**	**8001**	**27617**
1. LPG	2334	4413	2883	7042	2278	5766	2832	8700	2360	7916
2. MS	233	501	486	1286	421	1326	328	1137	397	1530
3. Naphtha	2214	4029	2331	5400	5306	14277	5983	18470	5023	17410
4. Propane	610	1030	481	1127	0	0	342	914	221	761
II.Middle Distillates	**1027**	**2047**	**1846**	**4532**	**2392**	**6938**	**5443**	**17556**	**4215**	**18318**
1.ATF	3	14	2	12	2	17	3	20	4	34
2.SKO	210	429	1044	2617	1423	4250	2489	8324	1423	6480
3.HSD	814	1604	800	1903	967	2671	2951	9212	2788	9804
III.Heavy Ends	**2410**	**2868**	**5413**	**8585**	**7263**	**12853**	**7533**	**14223**	**8111**	**20334**
1.FO / LSHS	741	692	1434	2099	2983	5174	1187	2211	1637	3465
2.Lubes / Others	1669	2176	3979	6486	4280	7679	6346	12012	6474	16869
Total(C)	**8828**	**14888**	**13440**	**27972**	**17660**	**41160**	**22461**	**61000**	**20327**	**64269**
Grand Total(A+B+C)	**107189**	**133587**	**117909**	**203040**	**135972**	**265839**	**152453**	**340896**	**161162**	**422105**
Petroleum Products				**Exports**						
I.Light Distillates	**6288**	**11512**	**7769**	**17384**	**12344**	**32581**	**13937**	**42220**	**13141**	**43094**
1.LPG	145	306	53	164	112	342	99	401	109	455
2.MS	2897	5625	2417	5843	3615	10191	4258	13614	5427	17767
3.Naphtha	2926	5030	5066	10787	8411	21431	9297	27365	7601	24854
4.TAME	0	0	0	0	0	0	0	0	0	0
5.Reformate	320	551	233	590	206	617	283	841	4	18
II.Middle Distillates	**9973**	**16690**	**11453**	**26102**	**15171**	**39993**	**18931**	**54919**	**18469**	**63428**
1.ATF	2480	4448	2828	7077	3652	10254	4486	13556	3701	13498
2.SKO	207	460	121	371	150	541	137	492	77	362
3.HSD/LDO	7286	11782	8504	18654	11369	29198	14308	40871	14691	49568
III.Heavy Ends	**1950**	**1726**	**4239**	**6488**	**6109**	**8520**	**7911**	**13650**	**6962**	**14564**
1.FO/LSHS	1792	1517	1815	2268	3759	4988	4718	6811	6118	12132
2.VGO/Lubes	102	137	993	1577	859	1826	1498	3236	219	829
3.Coke/Bitumen/ White Oil/Paraffin	56	72	339	302	66	77	409	614	177	391
4. Others	0	0	1092	2341	1425	1629	1286	2989	448	1212
Total	**18211**	**29928**	**23461**	**49974**	**33624**	**81094**	**40779**	**110789**	**38572**	**121086**
Net Imports										
A. Crude Oil	95861	117003	99409	171702	111502	219029	121672	272699	132775	348288
B. LNG	2500	1696	5060	3366	6810	5650	8320	7197	8060	9548
C. Pol.Products	-9383	-15040	-10021	-22002	-15964	-39934	-18318	-49790	-18245	-56817
Grand Total	88978	103659	94448	153066	102348	184745	111674	230106	122590	301019

Note: 'TAME: Tertiary Amyl Methyl Ether.

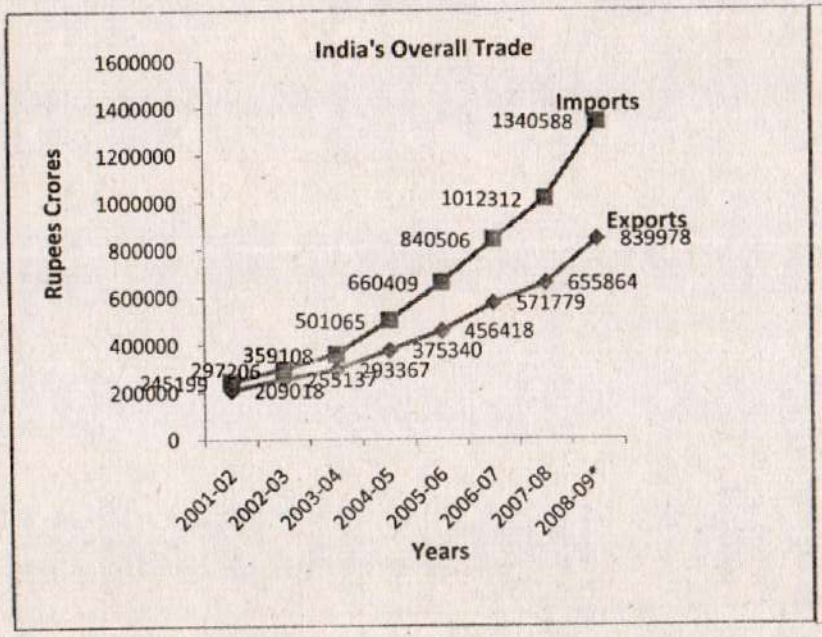
*: Provisional.

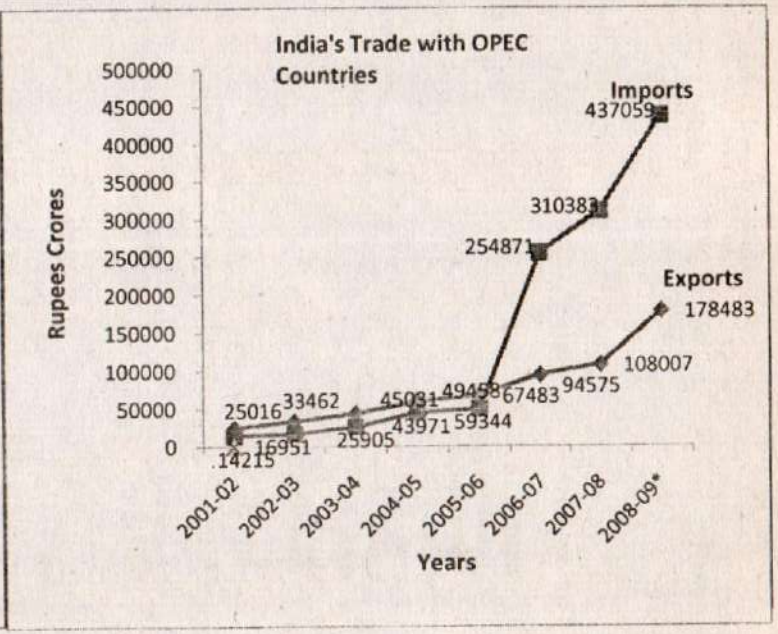
Source: Petroleum Planning & Analysis Cell, New Delhi.

VI.6 Trends in India's overall Trade balance and Trade balance with OPEC Countries

(Rs. Crores)

Year	India's Overall Trade					India's Trade with OPEC Countries					% of India's trade with OPEC to India's total trade	
	Exports	Imports	Balance of Trade	% variation over preceding year		Exports	Imports	Balance of Trade	% variation over preceding year			
				Exports	Imports				Exports	Imports	Exports	Imports
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
2001-02	209018	245199	-36181	2.7	6.2	25016	14215	10801	12.6	14.8	12.0	5.8
2002-03	255137	297206	-42069	22.1	21.2	33462	16951	16511	33.8	19.2	13.1	5.7
2003-04	293367	359108	-65741	15.0	20.8	43971	25905	18066	31.4	52.8	15.0	7.2
2004-05	375340	501065	-125725	27.9	39.5	59344	45031	14313	35.0	73.8	15.8	9.0
2005-06	456418	660409	-203991	21.6	31.8	67483	49458	18025	13.7	9.8	14.8	7.5
2006-07	571779	840506	-268727	25.3	27.3	94575	254871	-160296	40.1	415.3	16.5	30.3
2007-08	655864	1012312	-356448	14.7	20.4	108007	310383	-202376	14.2	21.8	16.5	30.7
2008-09*	839978	1340588	-500610	28.1	32.4	178483	437059	-258576	65.3	40.8	21.2	32.6





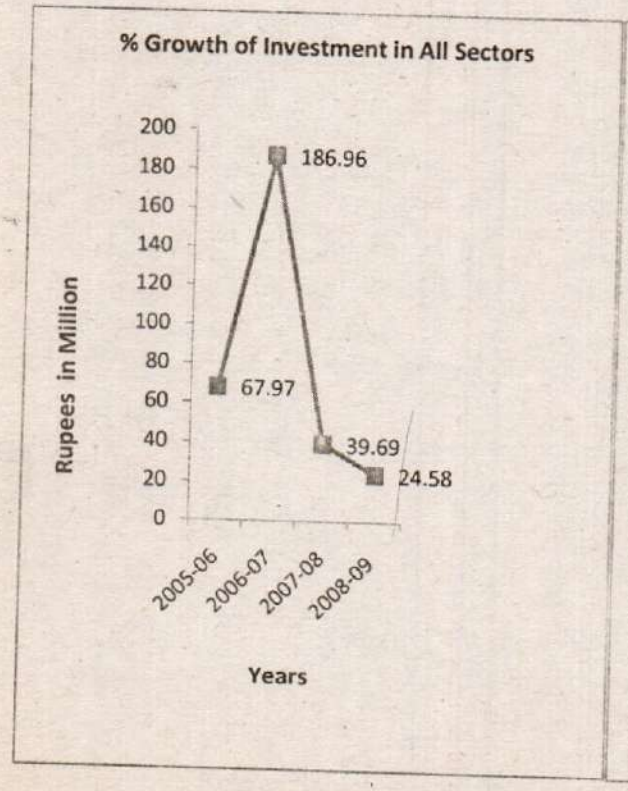
*Provisional.

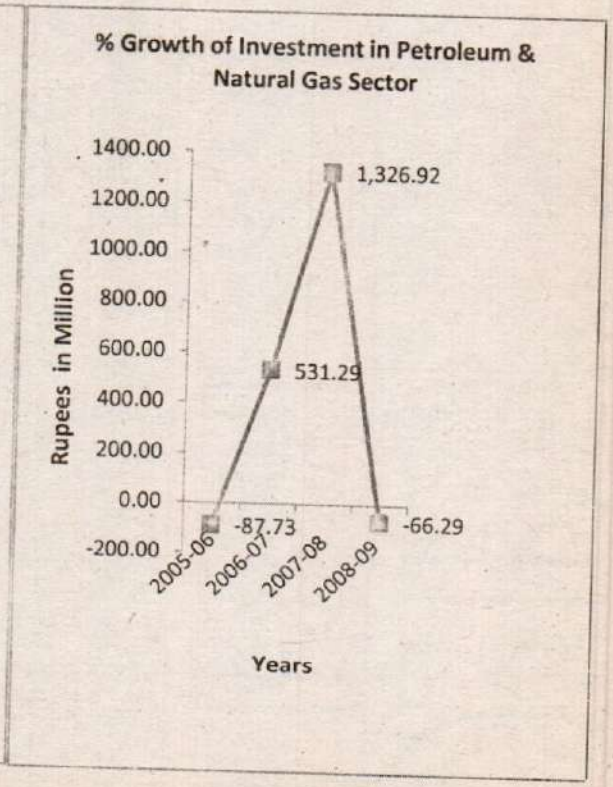
Source: Directorate General of Commercial Intelligence & Statistics's Foreign Trade Statistics .

VI.7 Annual Growth of Foreign Direct Investment Inflows

Sl. No.	Years	FDI Inflow		% of FDI in	Annual Growth (%)	
		Total All Sector	P & NG Sector	P&NG to Total FDI	P & NG Sector	All Sectors
1	2	3	4	5	6	7
		(Amount in Rs. Million)				
1	2004-05	146530	5182	3.54		
2	2005-06	246130	636	0.26	-87.73	67.97
3	2006-07	706300	4015	0.57	531.29	186.96
4	2007-08	986640	57291	5.81	1326.92	39.69
5	2008-09	1229190	19310	1.57	-66.29	24.58
	Total	3314790	86434	2.61		
		(Amount in US $ Million)				
1	2004-05	3219	113	3.51		
2	2005-06	5546	14	0.25	-87.61	72.29
3	2006-07	15730	89	0.57	535.71	183.63
4	2007-08	24579	1427	5.81	1503.37	56.26
5	2008-09	27309	412	1.51	-71.13	11.11
	Total	76383	2055	2.69		

Source: Foreign Direct Investment Cell, Department of Industrial Policy & Promotion





Taxes & Duties

VII.1 Realisation of Excise and Custom Duties from Crude Oil and Petroleum Products

(Rs.Crore)

Products	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
A. Excise Duties								
1. Motor Spirit	8501	11563	12575	13792	17554	18303	20102	21075
2. Kerosene Oil	699	1390	1700	1273	212	236	241	281
3. Refined Diesel Oil	11028	10570	13470	14455	21773	24672	23848	21537
4. Diesel Oil (NES)	1179	1038	992	1246	505	389	306	288
5. Furnace Oil	779	971	822	996	1756	1877	1985	2135
6. Pol. Products (NOS)	2878	3483	2906	3711	4623	4919	6313	6840 $
7. Petroleum Gases	1542	2445	2552	2424	319	454	570	595
8. Cess on crude oil	2731	4501	5134	5248	5007	7034	6866	6632
Total (A)	**29337**	**35961**	**40151**	**43145**	**51749**	**57884**	**60231**	**59383**
B. Custom Duties								
1. Crude Petroleum	4818	6820	7491	9761	7158	7583	9101	2768 $
2. Petroleum Products	1949	2346	3091	3489	4236	6426	9041	8406 $
Total (B)	**6767**	**9166**	**10582**	**13250**	**11394**	**14009**	**18142**	**11174**
Grand Total (A+B)	**36104**	**45127**	**50733**	**56395**	**63143**	**71893**	**78373**	**70557**
Composite Incidence of Excise & Custom Duties (Rs.)	3594.87	4333.88	4708.36	5051.78	5577.36	5953.92	6077.97	5281.25
% of Excise & Custom Duties on POL to NNP at Factor Cost at Current Prices	1.95	2.26	2.26	2.25	2.22	2.16	2.07	1.63

Figures rounded to nearest crore.

*: Provisional

$: Includes National Clamity Contingency Duty on Petroleum Products.

Composite incidence = Realisation of excise & custom duties on POL per metric tonne consumption of petroleum products.

Source : Ministry of Finance and Budget Papers of Central Government.

VII.2 Royalty and Oil Development Cess Paid by Oil Companies on Production of Crude Oil and Natural Gas

(Rs. Lakhs)

Year	Royalty Paid on Crude Oil						Royalty Paid on Natural Gas					Oil Development Cess
	Western Region	Eastern Region	Southern Region	Total Onshore	Bombay High/KG Offshore	Total	Western Region	Eastern Region	Southern Region	B.High/KG Off-shore	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
2001-02	54229	41574	14529	110332	138261	248593	7383	2932	4354	51215	65884	287845
2002-03	85123	57941	23635	166699	140018	306717	10099	1999	7195	58481	77774	509057
2003-04	82282	69761	27248	179291	138070	317361	10674	2226	8817	63699	85416	514317
2004-05	121061	88099	13692	222852	204291	427143	16252	2921	4326	59443	82942	553650
2005-06	174487	135973	18788	329248	177492	506740	20156	6605	6540	53065	86366	519562
2006-07	189162	137737	36236	363135	222585	585720	35262	8056	7547	56610	107475	717734
2007-08	214817	165983	23377	404177	250256	654433	62791	22814	7640	55440	148685	715626
2008-09	317211	136198	13774	467183	248319	715502	66682	21883	8191	65665	162421	688580

Source: Oil & Natural Gas Corpn. Ltd., Oil India Ltd. and Directorate General of Hydrocarbons.

VII.3 State-wise Sales Tax Rates Applicable on Crude Oil, Natural Gas and Petroleum Products as on 1.4.2009

(Percentage)

State	Crude Oil	Natural Gas	MS	HSD	SKO PDS/ Industrial	LPG Domestic/ Industrial
1	2	3	4	5	6	7
Andhra Pradesh	4.0	12.5	33.0	22.3	4.0/12.5	4.0/12.5
Arunachal Pradesh	4.0 C	20.0	20.0	12.5	4.0/12.5	4.0/12.5
Assam	4.0	20.0	25.8	15.5	2.0/12.5	4.0/9.0
Bihar			24.5	18.4	12.5/12.5	1.0/12.5
Chandigarh			20.0	12.5	4.0/12.5	0/12.5
Chhattisgarh			22.0	22.0	4.0/12.5	0/12.5
Delhi			20.0	12.5	4.0/12.5	4.0/4.0
Goa			22.0	21.0	4.0/12.5	4.0/12.5
Gujarat	4.0	12.5+2.5%	23.0	21.0	0/27.5	0/15.0
Haryana			20.0	8.8	4.0/12.5	0/12.5
Himachal Pradesh			25.0	14.0	0/12.5	4.0/12.5
Jammu & Kashmir			20.0	12.0	4.0/12.5	4.0/12.5
Jharkhand			20.0	14.5	4.0/12.5	4.0/12.5
Karnataka			25.0	18.0	4.0/12.5	1.0/12.5
Kerala			29.0	24.7	4.0/12.5	4.0/12.5
Madhya Pradesh			28.8	23.0	4.0/12.5	4.0/12.5
Maharashtra(i) WML	4.0	12.5	26.0 $	26.0 $	4.0/12.5	0/12.5
(ii) OML			25.0 $	23.0 $		
Manipur			18.2	11.7	0/4.0	4.0/12.5
Meghalaya			20.0	12.5	4.0/12.5	4.0/12.5
Mizoram			20.0	12.0	0/0	4.0/N.A
Nagaland			20.0	12.0	5.0/15.0	4.0/12.0
Orissa			18.0	18.0	4.0/12.5	4.0/12.5
Punjab			27.5	8.8	4.0/12.5	4.0/12.5
Pondicherry			12.5	12.5	0/12.5	1.0/12.5
Rajasthan	4.0 L	4.0	28.0	18.0	4.0/12.5	0/12.5
Sikkim			15.0	7.5	0/12.5	4.0/12.5
Silvassa			20.0	20.0	4.0/12.5	0/12.5
Tamil Nadu	4.0	4.0	30.0	21.4	4.0/25.0	4.0/12.5
Tripura	-	12.5	15.0	10.0	0/12.5	1.5/12.5
Uttar Pradesh			26.6	17.2	4.0/12.5	0/12.5
Uttaranchal			25.0	21.0	12.5/12.5	4.0/12.5
West Bengal			25.0	17.0	4.0/12.5	4.0/4.0

$:(i)WML-Within municipal limits (ii) OML- Outside Municipal Limits. L: On light crude oil for parties out of Rajasthan

Note: Above taxes exclude other taxes payable / recoverable as on 1.4.2009. C: CST.

Source: Public Sector Undertakings.

Cont...

VII.3 State-wise Sales Tax Rates Applicable on Crude Oil, Natural Gas and Petroleum Products as on 1.4.2009

(Percentage)

State	FO	LDO	Naphtha	ATF	Asphalt/ Bitumen
1	*8*	*9*	*10*	*11*	*12*
Andhra Pradesh	12.5	22.3	12.5	4.0	4.0
Arunachal Pradesh	12.5	12.5	12.5	20.0	4.0
Assam	12.5	15.5	12.5	22.0	4.0
Bihar	12.5	20.0	12.5	29.0	4.0
Chandigarh	12.5	12.5	12.5	20.0	4.0
Chhattisgarh	4.0	22.0	12.5	25.0	4.0
Delhi	20.0	12.5	20.0	20.0	4.0
Goa	12.5	20.0	20.0	20.0	4.0
Gujarat	5.0	15.0	18.5	30.0	5.0
Haryana	12.5	8.8	12.5	20.0	4.0
Himachal Pradesh	12.5	14.0	12.5	25.0	4.0
Jammu & Kashmir	12.5	12.5	12.5	21.0	4.0
Jharkhand	12.5	14.5	12.5	20.0	4.0
Karnataka	12.5	18.0	12.5	28.0	4.0
Kerala	12.5	41.0	4.0	25.0	4.0
Madhya Pradesh	12.5	12.5	12.5	28.8	4.0
Maharashtra(i) WML	12.5	12.5	12.5	25.0	12.5
(ii) OML					
Manipur	12.5	12.5	12.5	20.0	4.0
Meghalaya	12.5	12.5	12.5	20.0	4.0
Mizoram	NA	NA	NA	NA	4.0
Nagaland	12.0	12.0	12.0	20.0	12.0
Orissa	12.5	20.0	12.5	20.0	4.0
Punjab	4.0	8.8	12.5	20.0	4.0
Pondicherry	12.5	12.5	12.5	12.5	1.0
Rajasthan	4.0	18.0	4.0	28.0	4.0
Sikkim	12.5	7.5	12.5	12.5	4.0
Silvassa	20.0	20.0	20.0	0/20	4.0
Tamil Nadu	4.0	25.0	4.0	29.0	4.0
Tripura	12.5	10.0	12.5	20.0	4.0
Uttar Pradesh	21.0	17.2	21.0	21.0	12.5
Uttaranchal	12.5	21.0	12.5	20.0	4.0
West Bengal	4.0	17.0	4.0	25.0	4.0

$:(i)WML-Within municipal limits (ii) OML- Outside Municipal Limits.

Note: Above taxes exclude other taxes payable / recoverable as on 1.4.2009.

Source: Public Sector Undertakings.

VII.4 Sales Tax Payments (Inclusive of MST and CST) on Crude Oil, Condensates, Natural Gas and Petroleum Products

(Rs. In Lakhs)

State/UTs	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
1. CRUDE OIL	**53347**	**99341**	**87544**	**127009**	**118723**	**153548**	**165566**	**130140**
Andhra Pradesh	4	0	2432	3553	8414	10029	10069	7652
Arunachal Pradesh	60	70	0	157	0	0	0	0
Assam	10741	15604	15805	20636	8305	27982	31313	34996
Gujrat	13607	21736	17456	23777	25379	21107	20711	20518
Maharashtra	27925	60303	50292	76560	73538	91137	100321	63812
Tamil Nadu	1009	1627	1556	2324	3085	3287	3149	3162
Rajasthan	1	1	3	2	0	6	3	0
Tripura	0	0	0	0	2	0	0	0
2. NATURAL GAS	**85153**	**84391**	**91264**	**85363**	**107782**	**148490**	**145080**	**223491**
Andhra Pradesh	9895	11689	12973	12652	11112	9764	9223	8876
Arunachal Pradesh	0	0	0	0				260280
Assam	2595	2624	2856	2978	634	6724	7200	7413
Delhi	0	0	0	0	0	473	305	403
Gujarat	44547	46746	43547	39672	51939	63427	64418	108228
Harayana								1745
M.P	5824	3388	10278	6606	5971	10389	13409	10620
Maharashtra	7977	7624	9358	9052	20864	19385	20438	23947
Rajasthan	184	153	184	324	29	167	175	5539
Tamil Nadu	744	1050	1501	1368	2473	4155	2242	1770
Tripura	789	790	816	956	1168	1324	1326	1501
U.P	12598	10327	9751	11755	13406	32678	26344	53449
Pondicherry/Mane	0	0	0	0	186	4	0	0
3. POI PRODUCTS	**1870455**	**2790341**	**3106061**	**3687669**	**4366893**	**5006607**	**5678366**	**5942598**
Andhra Pradesh	151883	249820	278210	330193	402469	483043	561180	615966
Assam	25714	31717	674	62738	46897	1813	60165	86831
Arunachal Pradesh	426	532	40821	1021	1703	64637	1558	1894
Bihar	45278	69118	69149	90838	103602	116750	138075	162345
Chhattisgarh	16673	28668	35720	51348	66508	83265	95412	104582
Delhi	67760	86496	90497	112201	140071	173517	184540	179797
Goa	14999	20092	23693	25191	33751	37228	37141	48983
Gujarat	237604	321224	316319	299185	363735	470104	468454	371002
Harayana	63685	83300	95594	142989	152880	168371	220963	215167
Himachal Pradesh	8031	9876	12964	17115	20814	32141	25379	25197
Jammu & kashmir	9869	14996	17009	21289	28197	32604	35087	41170
Jharkhand	19460	31959	41532	51156	59686	72903	79056	66466
Karnataka	125237	164918	204290	241822	284734	331996	391975	465040
Kerala	103372	149289	184629	189764	210643	202361	255933	262619
Madhya Pradesh	65876	111293	127421	154948	178561	227388	247447	282495
Maharashtra	278283	506197	524725	621340	764140	836560	921355	966257
Manipur	1090	1625	1794	2032	2789	6826	2662	3502
Meghyalya	1093	1848	1854	3057	6035	7056	6975	7329
Mizoram	499	959	1181	1404	1759	2096	2140	2042
Nagaland	1358	1401	1508	1852	2603	2768	2801	3217
Orissa	27587	43654	52986	66308	83733	89277	118363	127128
Pondicherry/Mane	478	592	533	577	465	9009	837	783
Punjab	64631	87190	100269	119400	136825	171618	175455	176331
Rajasthan	88392	141074	164383	194296	228669	259122	299593	315144
Sikkim	728	982	1102	1459	1765	16626	2919	7050
Tamil Nadu	188827	267751	302447	371086	436399	457361	528230	588202
Tripura	1981	2445	2841	3330	3851	4348	4634	5034
Uttar Pradesh	167481	229656	252335	299959	367091	376231	476157	476604
Uttaranchal	12284	16470	19816	25267	30609	51966	41018	46332
West Bengal	77600	113225	137770	182277	200766	205028	277173	273567
Union Territories								
Daman & Diu	50	67	63	93	18	4	#	#
Chandigarh	2221	1867	1918	2126	5016	12506	12776	12428
Dadra & Nagar Haveli	5	40	14	8	109	84	727	2094
Andeman & Nocobar	0	0	0	0	0	0	2186	0
Grand Total (1+2+3)	**2008955**	**2974073**	**3284869**	**3900041**	**4593398**	**5308645**	**5989012**	**6296229**

* Provisional # included in Dadra & Nagar Haveli

Source : Compiled on the basis of the receipts from the oil companies

Manpower

VIII.1 Manpower employed in the Petroleum Industry in India

(As on 31st March)

(Number)

Category	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
1. Exploration & Production	50049	49540	48237	44943	41415	39694	38948	33935	33612
2. Refining	27178	25322	26451	25640	26859	30262	28151	30128	32745
3. Marketing	40852	41865	40561	40232	40628	43317	42970	44995	42183
4. Pipelines	4196	4094	4092	3829	7318	7816	7510	8933	4598
5. R&D	2723	2797	2330	2278	2096	2071	2029	1964	2076
6. Others	9990	9992	8256	9780	15055	15151	15707	20001	23759
Grand Total	**134988**	**133610**	**129927**	**126702**	**133371**	**138311**	**135315**	**139956**	**138973**

VIII.2 Category-wise Manpower employed in the Petroleum Industry in India

(As on 31st March)

(Number)

Category	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
1. Executive/Managerial	44804	45385	45301	45109	45319	45727	44447	46387	49742
2. Supervisory	11807	13138	12610	12348	10780	11232	13147	12964	13490
3. Clerical	14127	13014	12263	11559	11249	10807	16820	15247	13879
4. Workman	57693	54860	52200	50013	48197	45810	38210	37266	35759
5. Total	**128431**	**126397**	**122374**	**119029**	**115545**	**113576**	**112624**	**111864**	**112870**
6. Expatriates/ Foreign Experts/ on Contract	6557	7213	7553	7673	17826	24735	22691	28092	26103
Grand Total	**134988**	**133610**	**129927**	**126702**	**133371**	**138311**	**135315**	**139956**	**138973**

Source: Public Sector Undertakings

VIII.3 Category-wise Manpower Employed in Various Sectors of Petroleum Industry in India

(As on 31st March)

(Number)

Category	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
Exploration and Production									
1. Executive/Managerial	18560	19461	19605	19270	18571	18432	19459	17693	18391
2. Supervisory	5087	6601	6349	6055	4523	4778	3510	2825	2822
3. Clerical	3971	3278	3068	2351	2176	1984	8013	6256	5486
4. Workman	22431	20200	19215	17240	16138	14486	7940	7142	6908
5. Total	**50049**	**49540**	**48237**	**44916**	**41408**	**39680**	**38922**	**33916**	**33607**
6. Expatriates/ Foreign Experts/ on Contract	0	0	0	27	7	14	26	19	5
Grand Total	**50049**	**49540**	**48237**	**44943**	**41415**	**39694**	**38948**	**33935**	**33612**
Petroleum Refining									
1. Executive/Managerial	5534	5556	5977	5899	6200	6296	5659	5975	8054
2. Supervisory	2740	2589	2586	2616	2716	2809	3961	3988	4249
3. Clerical	2748	2587	2521	2371	2293	2268	2216	1929	1959
4. Workman	13017	12338	12266	11847	11445	11345	11208	11334	10926
5. Total	**24039**	**23070**	**23350**	**22733**	**22654**	**22718**	**23044**	**23226**	**25188**
6. Expatriates/ Foreign Experts/ on Contract	3139	2252	3101	2907	4205	7544	5107	6902	7557
Grand Total	**27178**	**25322**	**26451**	**25640**	**26859**	**30262**	**28151**	**30128**	**32745**
Marketing									
1. Executive/Managerial	11619	11649	11598	11747	11799	11365	10429	10841	11006
2. Supervisory	2188	2274	2320	2334	2419	2422	3845	4015	4378
3. Clerical	5726	5434	5245	5133	4831	4400	4413	4350	3973
4. Workman	18010	17956	17152	16725	15658	15148	14621	14046	13487
5. Total	**37543**	**37313**	**36315**	**35939**	**34707**	**33335**	**33308**	**33252**	**32844**
6. Expatriates/ Foreign Experts/ on Contract	3309	4552	4246	4293	5921	9982	9662	11743	9339
Grand Total	**40852**	**41865**	**40561**	**40232**	**40628**	**43317**	**42970**	**44995**	**42183**

Source: Public Sector Undertakings.

Energy

IX.1 Gross Production of Energy by Various Sources in India

Year	Coal & Lignite			Hydro-Carbon			Power			
	Coal	Lignite	Total	Natural Gas	Crude Petroleum	Petroleum Products @	Thermal	Hydel	Nuclear	Total
	(..... Million Tonnes.....)			(MCM)	(..... '000' Tonnes .....)		(.....Billion KWH.....)			
1	2	3	4	5	6	7	8	9	10	11
2001-02	327.79	24.81	352.60	29714	32032	107277	424.4	73.5	19.5	517.4
2002-03	341.29	26.02	367.31	31389	33044	111790	449.3	64.0	19.4	532.7
2003-04	361.25	27.96	389.21	31962	33373	121703	472.1	75.2	17.8	565.1
2004-05	382.61	30.34	412.95	31763	33981	129356	492.8	84.6	17.0	594.4
2005-06	407.04	30.06	437.10	32202	32190	131076	506.0	101.5	17.3	624.8
2006-07	430.83	31.29	462.12	31747	33988	148273	538.4	113.5	18.8	670.7
2007-08	457.08	33.98	491.06	32417	34118	158741	585.3	120.4	16.9	722.6
2008-09*	493.28	N.A.	N.A.	32845	33508	164590	617.8	114.1	14.7	746.6

*: Provisional

Source : Economic Survey.

@: Includes RBF and LPG production from natural gas.

N.A.: Not Available.

IX.2 Gross Domestic Product By Economic Activity

(Rs. Crore)

Sectors	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	(Constant at 1999-2000 Prices)						
1. (a) Petroleum & Natural Gas	18043	18831	19155	19357	18793	19363	19529
(b) Petroleum Products	17404	18360	19175	19604	20454	23091	25139
(c) Total	35447	37191	38330	38961	39247	42454	44668
2. Railways	23535	24864	26336	28257	30731	33800	36941
3. Transport by other means	92311	101779	113907	127743	138371	150524	162132
4. Storage	1523	1421	1493	1695	1716	1770	1746
5. Communications	43403	55407	69891	86999	110326	140891	176894
6. Electricity	38989	40408	42506	45900	48370	51000	53850
7. Gas	2980	3794	3970	4253	4281	4266	4343
8. Water Supply	4258	4222	4259	4592	4862	5278	5536
GDP at factor cost	1972606	2048287	2222758	2388768	2616101	2871118	3129717
Contribution of P&NG in GDP at factor	1.80	1.82	1.72	1.63	1.50	1.48	1.43
	Growth Rate (%)						
Sectors	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	CAGR*
1. (a) Petroleum & Natural Gas	4.37	1.72	1.05	-2.91	3.03	0.86	1.33
(b) Petroleum Products $	5.50	4.44	2.24	4.33	12.89	8.87	6.32
(c) Total	4.92	3.06	1.65	0.73	8.17	5.21	3.93
2. Railways	5.65	5.92	7.29	8.76	9.99	9.29	7.80
3. Transport by other means	10.26	11.92	12.15	8.32	8.78	7.71	9.84
4. Storage	-6.70	5.07	13.55	1.24	3.15	-1.36	2.30
5. Communications	27.66	26.14	24.48	26.81	27.70	25.55	26.39
6. Electricity	3.64	5.19	7.98	5.38	5.44	5.59	5.53
7. Gas	27.32	4.64	7.13	0.66	-0.35	1.80	6.48
8. Water Supply	-0.85	0.88	7.82	5.88	8.56	4.89	4.47
GDP at factor cost	3.84	8.52	7.47	9.52	9.75	9.01	8.00

(at Current Prices)

(Rs. Crore)

Sectors	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
1. (a) Petroleum & Natural Gas	21176	33553	32527	47130	50201	54657	58409
(b) Petroleum Products	24328	27250	30402	35096	41244	50146	55508
(c) Total	45504	60803	62929	82226	91445	104803	113917
2. Railways	22408	24678	26919	29645	30771	37416	43754
3. Transport by other means	100979	114732	135662	159385	178621	204570	232012
4. Storage	1651	1697	1825	2161	2269	2533	2615
5. Communications	38087	37606	44967	53595	63123	76330	93066
6. Electricity	39712	45629	47229	48908	53372	57254	60844
7. Gas	3199	4209	4554	5375	5919	6053	7090
8. Water Supply	4570	4693	4892	5609	6214	7148	8132
GDP at factor cost	2097726	2261415	2538170	2877701	3282385	3779385	4320892
Contribution of P&NG in GDP	2.17	2.69	2.48	2.86	2.79	2.77	2.64
	Growth Rate (%)						
Sectors	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	CAGR*
1. (a) Petroleum & Natural Gas	58.45	-3.06	44.90	6.52	8.88	6.86	18.42
(b) Petroleum Products $	12.01	11.57	15.44	17.51	21.59	10.69	14.74
(c) Total	33.62	3.50	30.67	11.21	14.61	8.70	16.53
2. Railways	10.13	9.08	10.13	3.80	21.60	16.94	11.80
3. Transport by other means	13.62	18.24	17.49	12.07	14.53	13.41	14.87
4. Storage	2.79	7.54	18.41	5.00	11.64	3.24	7.97
5. Communications	-1.26	19.57	19.19	17.78	20.92	21.93	16.06
6. Electricity	14.90	3.51	3.56	9.13	7.27	6.27	7.37
7. Gas	31.57	8.20	18.03	10.12	2.26	17.13	14.18
8. Water Supply	2.69	4.24	14.66	10.79	15.03	13.77	10.08
GDP at factor cost	7.80	12.24	13.38	14.06	15.14	14.33	12.80

Note: * Compound Annual Growth Rate in 2007-08 over 2001-02.

$ Estimated contribution at 81% of petroluem sector in rubber +petroleum in manufacturing

GDP of POL using domestic product for petroleum products & value of output for mining items

Source : National Account Statistics, 2009

Plan Outlay & Expenditure

X.1 Expenditure of Public Sector Undertakings of Ministry of Petroleum & Natural Gas

(Rs.Crore)

Undertaking	2002-07 (Actual)	2007-08 (Actual)	2008-09 (Actual)	2009-10 (BE)
1	2	3	4	5
A. Exploration & Production	82716.75	25051.06	42477.58	38731.98
1. ONGC	48322.77	17651.04	21790.34	20867.58
2. OIL	4609.33	1210.33	1601.13	2276.31
3. GAIL (India) Ltd.	6067.86	1317.84	2716.24	5273.03
4. ONGC Videsh Ltd.	23716.79	4529.26	15664.67	9365.06
5.IOC	0.00	218.24	195.59	400.00
6.HPCL	0.00	36.96	79.57	100.00
7.BPCL	0.00	87.39	430.04	450.00
B. Refining & Marketing	25623.84	5188.33	9147.49	14285.79
1. IOC	12242.04	2235.12	4743.49	6592
2. HPCL	4708.11	1656.82	1371.69	1270
3. BPCL	4820.20	732.22	1527.08	2898.7
4. CPCL	2312.90	159.80	422.96	714.09
5. KRL	42.48	*	*	*
6. BRPL	159.60	251.82	708.3	561.00
7. IBP Co. Ltd.	333.84	**	**	**
8. Numaligarh Refinery Ltd.	349.79	59.24	107.58	230.00
9. MRPL	654.88	93.31	266.39	2020.00
C. Petrochemicals	6665.54	2502.83	4818.51	4362.97
1. BRPL	19.06	0.32	0.00	0.00
2. MRPL	31.48	0.00	15.00	28.00
3. IOC	6219.17	2436.08	4705.14	4008
4. CPCL	1.63	0.00	0.00	2.00
5. GAIL	394.20	31.33	70.09	284.97
6. HPCL	0.00	30.91	0.00	20.00
7. NRL	0.00	4.19	28.28	20.00
D. Engineering Unit	34.17	17.22	19.65	95.00
1. Balmer Lawrie & Co. Ltd.	34.17	17.22	19.65	90
2. Biecco Lawrie Limited	0.00	0.00	0.00	5.00
Total (A+B+C+D)	115040.30	32759.44	56463.23	57475.74

Note:

BE : Budget Estimates

*: KRL is merged in BPCL

**: IBP Co. Ltd. is merged in IOC

Source: Performance Budget, Ministry of Petroleum & Natural Gas.

X.2 Import Avalability ratios of Crude Oil and Petroleum Products

Items	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09*
1	2	3	4	5	6	7	8	9
A. CRUDE OIL(MMT)								
(i) Production	32.03	33.04	33.37	33.98	32.19	33.99	34.12	33.51
(ii) Imports	78.71	81.99	90.43	95.86	99.41	111.50	121.67	132.78
(iii)Availability (Net)	110.74	115.03	123.80	129.84	131.60	145.49	155.79	166.29
(iv)Item (ii) as % of Item(iii)	71.08	71.28	73.05	73.83	75.54	76.64	78.1	79.85
B. PETROLEUM PRODUCTS(MMT)								
(i) Production*	102.21	106.51	115.78	120.82	121.94	137.35	144.99	152.68
(ii) Imports(Net)$	-3.056	-3.061	-6.619	-9.383	-10.021	-15.964	-18.318	-18.647
(iii)Availability (Gross)	99.15	103.45	109.16	111.44	111.92	121.39	126.67	134.03
(iv)Item (ii) as % of Item(iii)	-3.08	-3.0	-6.1	-8.4	-9.0	-13.2	-14.5	-13.9

Note:

*: Includes LPG Production from Natural Gas.

$: Excluding LNG imports.

Source: Eleventh Five Year Plan document .

X.3 Crude Oil Processing and Import during the Eleventh Plan

(MMT)

Particulars	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	2	3	4	5	6	7
Processing	148.5	162.7	193.0	211.6	235.0	802.3
Actuals	156.1	160.8				
Imports	107.27	120.37	150.51	170.41	195.49	744.05
Actuals	121.7	132.8				

Source: Eleventh Five Year Plan document and oil PSUs .

X. 4 Eleventh Plan Demand Projections for Petroleum Products

Items	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
1	2	3	4	5	6	7
	Demand for Petroleum Products(MMT)					
Base Case	114.034	116.089	119.098	121.987	126.973	131.767
Annual Growth Rate %		1.80	2.59	2.43	4.09	3.78
Upper Case	114.034	117.555	121.951	127.789	136.593	141.793
Annual Growth Rate %		3.09	3.74	4.79	6.89	3.81

Source: Eleventh Five Year Plan document .

MMT: Million Metric Tonnes.

X.5 Crude Oil and Natural Gas Production Projection Profile for Eleventh Plan

Company	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
1	2	3	4	5	6	7
			Crude Oil (MMT)			
ONGC	27.16	28.00	29.00	28.53	27.37	140.06
OIL	3.50	3.55	3.73	3.91	4.30	18.99
Joint Venture / Private Companies	10.57	10.78	9.76	8.75	7.85	47.71
Total	**41.23**	**42.33**	**42.49**	**41.19**	**39.52**	**206.76**
Actuals	**34.12**	**33.51**				
			Natural Gas (BCM)			
ONGC	22.10	22.53	22.77	22.99	22.00	112.39
OIL	3.13	3.21	3.25	3.28	3.56	16.43
Joint Venture / Private Companies	8.55	22.55	29.41	28.77	37.61	126.45
Total	**33.78**	**48.29**	**55.43**	**55.03**	**63.23**	**255.76**
Actuals	**32.42**	**32.84**				

X.6 Availabilty of Petroleum Product during the Eleventh Plan

(MMT)

Product	2007-08 (Actuals)	2008-09 (Actuals)	2009-10 (Projected)	2010-11 (Projected)	2011-12 (Projected)	TOTAL of XI plan
1	2	3	4	5	6	7
LPG	11.5	11.41	9.3	11	12.8	51.9
MS	10.2	10.99	27.7	28.9	30.5	118.3
Naphtha	13.1	12.25	15	17.5	18.8	81.1
ATF	4.6	4.37	9.3	10.6	11	45.1
SKO	10.1	9.57	10.7	10.3	11.3	54.2
HSD	47.0	50.99	74.5	84.1	92.3	371.5
LDO	0.7	0.61	0.8	0.8	0.6	4.2
Lubes	1.8	2.27	0.8	1.1	1.1	4.6
FO/LSHS	12.3	13.20	15.6	10.9	9.5	66.4
Bitumen	4.5	4.79	4	4	4.4	20
Coke	6.6	7.56	8.3	11	12.8	41.6
Others	6.2	6.44	9.6	11	13.2	45.9
Grand Total	**128.7**	**134.4**	**185.6**	**201.2**	**213.3**	**904.8**

Note: Column 2 & 3 are calculated as Production+Import-Export

MMT: Million Metric Tonnes. BCM: Billion Cubic Metres.

Source: Eleventh Five Year Plan document (col. 4 to 7) and PPAC & PSUs(col. 2 to 3).

X.7 Refinery-wise Capacity addition during the Eleventh Plan

Year	Refinery	PSU/PVT.	MMT
2007-08	IOCL, Panipat	PSU	3.00
	HPCL,Mumbai	PSU	2.40
	HPCL, Visakh	PSU	0.83
	Essar Oil Ltd., Jamnagar	PVT	3.50
		Sub total	**9.73**
Actual addition			0.00
2008-09	CPCL, Chennai	PSU	1.00
	RPL, Jamnagar(New)	PVT	29.00
	Nagarjuna Oil Corporation Ltd.	PVT	6.00
		Sub total	**36.00**
Actual addition			29.00*
2009-10	IOCL,Haldia	PSU	1.50
	BPCL, Bina	PSU	6.00
	CPCL, Chennai	PSU	0.70
	KRL, Kochi	PSU	2.00
	MRPL, Mangalore	PSU	5.31
		Sub total	**15.51**
2010-11	HPCL,Visakh	PSU	6.67
	HPCL,Bhatinda	PSU	9.00
		Sub total	**15.67**
2011-12	IOCL, Paradip	PSU	15.00
	ONGC, Tatipaka	PSU	0.08
		Sub total	**15.08**
		Total	**91.99**

X.8 Refining Capacity addition during the Eleventh Plan

(MMT)

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Capacity addition	Base year	9.73	36.00	15.51	15.67	15.08	91.99
Total Capacity	148.97	158.7	194.7	210.21	225.88	240.96	
Actual Capacity		148.968	177.97*				

Note: *: Reliance Petroleum Ltd.(SEZ) with capacity 29 MMT was commissioned on 25.12.2008.

X.9 Estimates of Demand of Petroleum Products during the Eleventh Plan

('000' Tonnes)

Products	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	CAGR
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
			Base Case				
LPG	10494	10853	11246	11683	12183	12770	4.0
Naphtha	11333	10425	9517	10441	11138	11588	0.4
MS	8983	9377	9828	10242	10667	11097	4.3
ATF	3630	4335	4774	5187	5569	5907	10.2
SKO	9414	8830	8510	8222	7962	7729	-3.9
HSD	40583	42210	43797	45328	46871	48419	3.6
LDO	905	951	951	849	786	569	-8.9
FO/LSHS	13454	13601	13959	12806	13327	13874	0.6
Bitumen	3592	3772	3961	4159	4367	4585	5.0
Lubes	2421	2453	2487	2521	2556	2592	1.4
Pet. Coke	4736	4736	4736	4736	5210	5731	3.9
Others	4489	4893	5333	5813	6337	6907	9.0
Total	**114034**	**116436**	**119099**	**121987**	**126973**	**131768**	**2.9**
			Upper Case				
LPG	10494	10853	11246	11683	12183	12770	4.0
Naphtha	11333	10077	9517	10441	11138	11588	0.4
MS	8983	9330	9775	10442	11197	11605	5.3
ATF	3630	4356	5227	6011	6612	7274	14.9
SKO	9414	9414	9414	9414	9414	9414	0.0
HSD	40583	42374	43818	45751	47952	49776	4.2
LDO	905	951	951	849	786	569	-8.9
FO/LSHS	13454	13754	14250	13611	14277	14982	2.2
Bitumen	3592	3808	4036	4279	4535	4808	6.0
Lubes	2421	2453	2487	2521	2556	2592	1.4
PET. COKE	4736	4736	4736	4736	7210	7411	9.4
Others	4489	5449	6494	8052	8734	9006	14.9
Total	**114034**	**117555**	**121951**	**127790**	**136594**	**141795**	**4.5**

Source: Eleventh Five Year Plan document .

X.10 Dividend paid by Public Sector Undertakings under the Ministry of Petroleum and Natural Gas

(Rs. Crore)

Name of Company	Dividend paid to Govt by PSUs in 2008-09
1. Oil & Natural Gas Corp. Ltd. (ONGC)	6844.39
2. Oil India Ltd. (OIL)	331.70
3. GAIL (INDIA) Ltd.	888.00
4. Indian Oil Corp. Ltd. (IOCL)	910.48
5. Hindustan Petroleum Corp. Ltd. (HPCL)	177.78
6. Bharat Petroleum Corp. Ltd. (BPCL)	25308.00
7. Engineers India Ltd. (EIL)	103.89
Total	**34564.24**

X.11 Equity Capital of Public sector Undertakings under the Ministry of Petroleum and Natural Gas

(Rs. Crore)

Name of the PSU	Authorised Capital	Paid up Capital	% Govt. holding as on 31.3.2009
1. Indian Oil Corp. Ltd. (IOCL)	2500	1213.97	78.92
2. Bharat Petroleum Corp. Ltd. (BPCL)	450	361.54	54.93
3. Hindustan Petroleum Corp. Ltd. (HPCL)	350	338.95	51.11
4. Oil & Natural Gas Corp. Ltd. (ONGC)	15000	2138.39	74.14
5. Oil India Ltd. (OIL)	500	214.00	98.13
6. GAIL (INDIA) Ltd.	2000	1268.48	57.34
7. Bongaigaon Refinery & Petrochemicals Ltd. (BRPL)	200	199.82	0.00
7. Engineers India Ltd. (EIL)	100	56.16	90.40
8. Chennai Petroleum Corp. Ltd. (CPCL)	400	149.00	Nil
9. [redacted] Lawrie Ltd.	[redacted]	[redacted]	57.37
10. [redacted]mer Lawrie Ltd.	[redacted]	16.29	Nil
11. Numaligarh Refinery Ltd. (NRL)	1000	735.63	Nil
12. Mangalore Refinery & Petrochemicals Ltd.	2000	1761.82	Nil
13. ONGC (Videsh) Ltd. (OVL)	1000	1000.00	100.00

NRL: Subsidiary of BPCL.

CPCL: Subsidiaries of IOCL.

Source: Ministry of Petroleum and Natural Gas (Internal Finance Division)

X.12 Profit earned by Public Sector Undertakings under the Ministry of Petroleum and Natural Gas

(Rs. Crores)

	Name of PSUs	Profit after tax during							
		2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09(p)
	1	2	3	4	5	6	7	8	9
1	Indian Oil Corporation Ltd.	2884.66	6114.89	7004.82	4891.38	4915.12	7499.47	6962.58	2949.55
2	Bharat Petroleum Corporation Ltd.	849.83	1250.03	1694.57	965.80	291.65	1805.48	1327	735.9
3	Hindustan Petroleum Corporation Ltd.	787.98	1537.36	1903.94	1277.00	405.63	1571.17	473	574.98
4	Oil & Natural Gas Corporation Ltd.	6197.9	10529.3	8664.43	12983.00	14430.78	15643	16702	16126.32
5	Oil India Ltd.	525.22	916.73	949.70	1061.68	1689.93	1639.99	1784.04	2161.68
6	GAIL (India) Ltd.	1185.84	1639.11	1869.00	1954.00	2310	2387	2601	2804
7	Kochi Refineries Ltd.	68.77	456.02	555.09	842.12	*	*	*	*
8	Bongaigaon Refinery & Petrochemicals Ltd.	-198.61	178.45	303.74	478.29	174.76	184.98	306.82	**
9	Engineers India Ltd.	24.71	64.16	80.18	112.64	138.64	142.99	171.99	344.53
10	Chennai Petroleum Corporation Ltd.	63.71	302.89	400.05	596.97	480.96	565.27	1122.95	-450
11	IBP Co. Ltd.	195.79	87.75	214.66	58.87	12.44	#	#	#
12	Balmer Lawrie & Co. Ltd.	8.01	16.49	18.58	29.83	46.8	70.22	85	101
13	Numaligarh Refineries Ltd.	122.98	174.63	214.95	409.15	448.93	568.8	368.6	235.64
14	Biecco Lawrie Co. Ltd.	-10.9	-9.2	-2.96	1.28	2.22	2.31	2.59	2.56
15	Mangalore Refinery & Petrochemicals Ltd.	-492.27	-411.8	459.42	880.00	371.61	525.52	1272.23	870.33
16	ONGC (Videsh) Ltd. (OVL)				761.38	901.19	1663.29	2397.14	NA

(p) : Provisional

* :Amalgamated with BPCL

** : Merged with IOCL since 25th March,2009

#: Merged with IOCL.

Source: Ministry of Petroleum and Natural Gas(Internet Finance Division)

X.13 Performance of Public Sector Undertakings under the Ministry of Petroleum and Natural Gas

S. No.	Performance Parameters	Unit	ONGC	OIL	GAIL	IOC	HPCL	BPCL	EIL	NRL	CPCL	Balmer Lawrie	MRPL	OVL	Biecco Lawrie
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
1	Authorised Capital	Rs./Crore	15000	500	1000	2500	350	450	100	1000	400	30	2000	1000	50
2	Paid up Capital	Rs./Crore	2139	214	845.65	1213.97	338.95	361.54	56.16	735.63	149.00	16.29	1761.82	1000	42
3	Govt. equity in the PSU	%	74.14	98.13	57.34	78.92	51.11	54.93	90.40	Nil	Nil	Nil	Nil	100.00	57.37
4	Gross Turnover	Rs./Crore	65049	7241.45	24292	285337.31	116428	145392.07	1532.46	8853.35	36550.00	1775	42718.88	18503.50	57.12
5	PAT	Rs./Crore	16126	2161.68	2804	2949.55	575	736	344.53	235.64	-450	101	1192.54	2806.70	2.56
6	Debt equity ratio	Ratio	0.0003:1	0.006:1	0.08	1.02:1	0.3:1	1.75:1	0.00	0.02:1	0.47	0.00	0.37:1	1.8:1	107.92
7	Reserves & Surpluses	Rs./Crore	76597	9117.01	13501	42784.21	10392	11766.57	1319.18	1615.02	2865.52	373.36	2967.57	10515.56	0.31
8	Networth	Rs./Crore	78085	9331.02	14575	43998.18	10731	12128	1375.15	2350.65	3014.52	389.65	4729.40	11515.56	-7.70
9	Dividend paid / payable	Rs./Crore	6844	331.70	888	910.48	177.78	253	103.89	110.34	0.00	30.94	210.35	0.00	0.00
10	Dividend as a %age of PAT	%age	42	15	32	31	31	34	30	47	0	31	18	0	0
11	EPS	Rs.	75.40	101.01	22	24.30	16.98	20.35	61.35	3.20	-30.22	62.02	6.80	280.67	0.61
12	Total outstanding loan	Rs./Crore	26.74	56.45	1200	44972.06	22755	21171.41	0	50.39	1548	0	1738.94	20679.01	45.66

Source: Ministry of Petroleum and Natural Gas (Internal Finance Division)

International Petroleum Statistics

XI.1 (a) World Proved Reserves of Crude Oil at end 2008

Country/ Region	Thousand million tonnes	Thousand million barrels	% Share of total	R/P ratio
1	2	3	4	5
US	3.7	30.5	2.4%	12.4
Canada	4.4	28.6	2.3%	24.1
Mexico	1.6	11.9	0.9%	10.3
Total North America	**9.7**	**70.9**	**5.6%**	**14.8**
Argentina	0.4	2.6	0.2%	10.5
Brazil	1.7	12.6	1.0%	18.2
Colombia	0.2	1.4	0.1%	6.0
Ecuador	0.5	3.8	0.3%	20.3
Peru	0.2	1.1	0.1%	25.5
Trinidad & Tobago	0.1	0.8	0.1%	15.2
Venezuela	14.3	99.4	7.9%	*
Other S. & Cent. America	0.2	1.4	0.1%	27.7
Total S. & Cent. America	**17.6**	**123.2**	**9.8%**	**50.3**
Azerbaijan	1.0	7.0	0.6%	20.9
Denmark	0.1	0.8	0.1%	7.7
Italy	0.1	0.8	0.1%	21.1
Kazakhstan	5.3	39.8	3.2%	70.0
Norway	0.9	7.5	0.6%	8.3
Romania	0.1	0.5	*	13.3
Russian Federation	10.8	79.0	6.3%	21.8
Turkmenistan	0.1	0.6	*	8.0
United Kingdom	0.5	3.4	0.3%	6.0
Uzbekistan	0.1	0.6	*	14.6
Other Europe & Eurasia	0.3	2.1	0.2%	13.4
Total Europe & Eurasia	**19.2**	**142.2**	**11.3%**	**22.1**
Iran	18.9	137.6	10.9%	86.9
Iraq	15.5	115.0	9.1%	*
Kuwait	14.0	101.5	8.1%	99.6
Oman	0.8	5.6	0.4%	20.9
Qatar	2.9	27.3	2.2%	54.1
Saudi Arabia	36.3	264.1	21.0%	66.5
Syria	0.3	2.5	0.2%	17.2
United Arab Emirates	13.0	97.8	7.8%	89.7
Yemen	0.3	2.7	0.2%	23.9
Other Middle East	^	0.1	*	10.6
Total Middle East	**102.0**	**754.1**	**59.9%**	**78.6**

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XI.1 (a) World Proved Reserves of Crude Oil at end 2008

Country/ Region	Thousand million tonnes	Thousand million barrels	% Share of total	R/P ratio
1	2	3	4	5
Algeria	1.5	12.2	1.0%	16.7
Angola	1.8	13.5	1.1%	19.7
Chad	0.1	0.9	0.1%	19.4
Rep. of Congo (Brazzaville)	0.3	1.9	0.2%	21.3
Egypt	0.6	4.3	0.3%	16.4
Equatorial Guinea	0.2	1.7	0.1%	12.9
Gabon	0.4	3.2	0.3%	37.0
Libya	5.7	43.7	3.5%	64.6
Nigeria	4.9	36.2	2.9%	45.6
Sudan	0.9	6.7	0.5%	38.1
Tunisia	0.1	0.6	•	18.5
Other Africa	0.1	0.6	•	12.0
Total Africa	**16.6**	**125.6**	**10.0%**	**33.4**
Australia	0.5	4.2	0.3%	20.4
Brunei	0.1	1.1	0.1%	46.9
China	2.1	15.5	1.2%	11.1
India	0.8	5.8	0.5%	20.7
Indonesia	0.5	3.7	0.3%	10.2
Malaysia	0.7	5.5	0.4%	19.8
Thailand	0.1	0.5	•	3.9
Vietnam	0.6	4.7	0.4%	40.8
Other Asia Pacific	0.1	1.1	0.1%	12.8
Total Asia Pacific	**5.6**	**42.0**	**3.3%**	**14.5**
Total World	**170.8**	**1258.0**	**100.0%**	**42.0**
Canadian oil sands•	24.5	150.7		
Proved reserves and oil sands	195.3	1408.7		

Note: Proved reserves of oil - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions.

*: More than 100 years.

^: Less than 0.05.

• Less than 0.05%

R/P: Reserves-to-production(R/P) ratio-If the reserves remaining at the end of any year are devided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate.

• 'Remaining established reserves', less reserves 'under active development'.

Source: BP Statistical Review of World Energy, 2009

XI.1 (b) World Proved Reserves of Natural Gas at end 2008

Country/ Region	Trillion cubic feet	Trillion cubic metres	% Share of total	R/P ratio
1	2	3	4	5
US	237.7	6.73	3.6%	11.6
Canada	57.7	1.63	0.9%	9.3
Mexico	17.6	0.50	0.3%	9.1
Total North America	**313.1**	**8.87**	**4.8%**	**10.9**
Argentina	15.6	0.44	0.2%	10.0
Bolivia	25.1	0.71	0.4%	51.0
Brazil	11.5	0.33	0.2%	23.6
Colombia	4.0	0.11	0.1%	12.4
Peru	11.8	0.33	0.2%	98.5
Trinidad & Tobago	17.0	0.48	0.3%	12.2
Venezuela	170.9	4.84	2.6%	*
Other S. & Cent. America	2.4	0.07	*	17.5
Total S. & Cent. America	**258.2**	**7.31**	**4.0%**	**46.0**
Azerbaijan	42.3	1.20	0.6%	81.3
Denmark	1.9	0.06	*	5.5
Germany	4.2	0.12	0.1%	9.2
Italy	4.2	0.12	0.1%	14.2
Kazakhstan	64.4	1.82	1.0%	60.3
Netherlands	49.1	1.39	0.8%	20.6
Norway	102.7	2.91	1.6%	29.3
Poland	3.9	0.11	0.1%	27.1
Romania	22.2	0.63	0.3%	54.6
Russian Federation	1529.2	43.30	23.4%	72.0
Turkmenistan	280.6	7.94	4.3%	*
Ukraine	32.6	0.92	0.5%	49.2
United Kingdom	12.1	0.34	0.2%	4.9
Uzbekistan	55.8	1.58	0.9%	25.4
Other Europe & Eurasia	15.6	0.44	0.2%	43.2
Total Europe & Eurasia	**2220.8**	**62.89**	**34.0%**	**57.8**
Bahrain	3.0	0.09	*	6.3
Iran	1045.7	29.61	16.0%	*
Iraq	111.9	3.17	1.7%	*
Kuwait	62.9	1.78	1.0%	*
Oman	34.6	0.98	0.5%	40.7
Qatar	899.3	25.46	13.8%	*
Saudi Arabia	267.3	7.57	4.1%	96.9
Syria	10.0	0.28	0.2%	51.8
United Arab Emirates	227.1	6.43	3.5%	*
Yemen	17.3	0.49	0.3%	*
Other Middle East	1.7	0.05	*	18.4
Total Middle East	**2680.9**	**75.91**	**41.0%**	*

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XI.1 (b) World Proved Reserves of Natural Gas at end 2008

Country/ Region	Trillion cubic feet	Trillion cubic metres	% Share of total	R/P ratio
1	2	3	4	5
Algeria	159.1	4.50	2.4%	52.1
Egypt	76.6	2.17	1.2%	36.9
Libya	54.4	1.54	0.8%	96.9
Nigeria	184.2	5.22	2.8%	*
Other Africa	43.3	1.23	0.7%	66.2
Total Africa	**517.5**	**14.65**	**7.9%**	**68.2**
Australia	88.6	2.51	1.4%	65.6
Bangladesh	13.1	0.37	0.2%	21.4
Brunei	12.4	0.35	0.2%	28.8
China	86.7	2.46	1.3%	32.3
India	38.5	1.09	0.6%	35.6
Indonesia	112.5	3.18	1.7%	45.7
Malaysia	84.3	2.39	1.3%	38.2
Myanmar	17.5	0.49	0.3%	39.9
Pakistan	30.1	0.85	0.5%	22.7
Papua New Guinea	15.6	0.44	0.2%	*
Thailand	10.7	0.30	0.2%	10.5
Vietnam	19.7	0.56	0.3%	70.1
Other Asia Pacific	13.9	0.39	0.2%	22.1
Total Asia Pacific	**543.5**	**15.39**	**8.3%**	**37.4**
Total World	**6534.0**	**185.0**	**1.0**	**60.4**

Notes: Proved reserves of oil - Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs underexisting economic and operating conditions.

Reserves-to-production (R/P) ratio: - If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate.

*: More than 100 years.

Source: BP Statistical Review of World Energy, 2009

XI.2 World Crude Oil Production

(Million Tonnes)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
US	349.2	346.8	338.4	329.2	313.3	310.2	309.8	**305.1**	7.8%
Canada	126.1	135.0	142.6	147.6	144.9	153.4	159.5	**156.7**	4.0%
Mexico	176.6	178.4	188.8	190.7	187.1	183.1	172.7	**157.4**	4.0%
Total North America	**651.8**	**660.2**	**669.8**	**667.4**	**645.3**	**646.7**	**642.0**	**619.2**	**15.8%**
Argentina	41.5	40.9	40.2	37.8	36.2	35.8	34.9	**34.1**	0.9%
Brazil	66.3	74.4	77.0	76.5	84.6	89.2	90.4	**93.9**	2.4%
Colombia	31.0	29.7	27.9	27.3	27.3	27.5	27.6	**30.5**	0.8%
Ecuador	21.2	20.4	21.7	27.3	27.6	27.7	26.5	**26.2**	0.7%
Peru	4.8	4.8	4.5	4.4	5.0	5.1	5.1	**5.3**	0.1%
Trinidad & Tobago	6.5	7.5	7.9	7.3	8.3	8.3	7.2	**6.9**	0.2%
Venezuela	161.6	148.8	131.4	150.0	151.0	144.2	133.9	**131.6**	3.4%
Other S. & Cent. America	6.9	7.8	7.8	7.3	7.2	7.1	7.2	**7.0**	0.2%
Total S. & Cent. America	**339.9**	**334.2**	**318.3**	**337.9**	**347.1**	**345.0**	**332.7**	**335.6**	**8.5%**
Azerbaijan	15.0	15.4	15.5	15.6	22.4	32.5	42.8	**44.7**	1.1%
Denmark	17.0	18.1	17.9	19.1	18.4	16.7	15.2	**14.0**	0.4%
Italy	4.1	5.5	5.6	5.5	6.1	5.8	5.9	**5.2**	0.1%
Kazakhstan	40.1	48.2	52.4	60.6	62.6	66.1	68.4	**72.0**	1.8%
Norway	162.0	157.3	153.0	149.9	138.2	128.7	118.8	**114.2**	2.9%
Romania	6.2	6.1	5.9	5.7	5.4	5.0	4.7	**4.7**	0.1%
Russian Federation	348.1	379.6	421.4	458.8	470.0	480.5	491.3	**488.5**	12.4%
Turkmenistan	8.0	9.0	10.0	9.6	9.5	9.2	9.8	**10.2**	0.3%
United Kingdom	116.7	115.9	106.1	95.4	84.7	76.6	76.8	**72.2**	1.8%
Uzbekistan	7.2	7.2	7.1	6.6	5.4	5.4	4.9	**4.8**	0.1%
Other Europe & Eurasia	22.2	23.6	24.0	23.4	21.9	21.6	21.4	**20.3**	0.5%
Total Europe & Eurasia	**746.6**	**786.0**	**818.9**	**850.1**	**844.8**	**848.0**	**860.0**	**851.0**	**21.7%**
Iran	186.5	172.7	203.7	207.9	206.2	208.0	209.7	**209.8**	5.3%
Iraq	123.9	104.0	66.1	100.0	90.0	98.1	105.3	**119.3**	3.0%
Kuwait	105.8	98.2	114.8	122.3	129.3	132.7	129.9	**137.3**	3.5%
Oman	47.5	44.5	40.7	38.9	38.6	36.9	34.6	**36.0**	0.9%
Qatar	35.7	35.2	40.8	46.0	47.3	50.9	53.6	**60.8**	1.5%
Saudi Arabia	440.6	425.3	485.1	506.0	526.8	514.3	494.2	**515.3**	13.1%
Syria	28.9	27.2	26.2	24.7	22.4	21.6	20.6	**19.8**	0.5%
United Arab Emirates	118.2	108.4	122.2	124.7	129.0	139.0	136.4	**139.5**	3.6%
Yemen	21.5	21.5	21.1	19.9	19.6	17.9	16.3	**14.4**	0.4%
Other Middle East	2.2	2.2	2.2	2.2	1.6	1.4	1.6	**1.5**	*
Total Middle East	**1110.8**	**1039.4**	**1123.0**	**1192.7**	**1210.8**	**1221.0**	**1202.2**	**1253.7**	**31.9%**

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XI.2 World Crude Oil Production

(Million Tonnes)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
Algeria	65.8	70.9	79.0	83.6	86.4	86.2	86.5	**85.6**	2.2%
Angola	36.6	44.6	42.5	48.2	61.2	69.7	84.3	**92.2**	2.3%
Cameroon	4.1	3.6	3.4	4.5	4.2	4.4	4.2	**4.3**	0.1%
Chad	-	-	1.2	8.8	9.1	8.0	7.5	**6.7**	0.2%
Rep.of Congo(Brazzaville)	12.1	11.9	11.1	11.2	12.7	13.5	11.5	**12.9**	0.3%
Egypt	37.3	37.0	36.8	35.4	33.9	33.7	34.1	**34.6**	0.9%
Equatorial Guinea	8.8	10.1	12.0	17.1	18.5	17.7	18.2	**17.9**	0.5%
Gabon	15.0	14.7	12.0	11.8	11.7	11.7	11.5	**11.8**	0.3%
Libya	67.1	64.6	69.8	76.6	82.1	85.6	86.0	**86.2**	2.2%
Nigeria	110.8	102.3	110.3	121.9	125.4	120.0	114.2	**105.3**	2.7%
Sudan	10.7	11.9	13.1	14.9	15.0	16.3	23.1	**23.7**	0.6%
Tunisia	3.4	3.5	3.2	3.4	3.4	3.3	4.6	**4.2**	0.1%
Other Africa	2.5	3.0	3.5	3.6	3.5	3.2	2.9	**2.7**	0.1%
Total Africa	**374.1**	**378.1**	**397.8**	**440.9**	**467.2**	**473.3**	**488.5**	**488.1**	**12.4%**
Australia	31.8	31.5	26.6	24.8	24.5	23.4	24.1	**23.8**	0.6%
Brunei	9.9	10.2	10.5	10.3	10.1	10.8	9.5	**8.5**	0.2%
China	164.8	166.9	169.6	174.1	180.8	183.7	186.7	**189.7**	4.8%
India	34.1	35.2	35.4	36.3	34.6	35.8	36.2	**36.1**	0.9%
Indonesia	68.0	63.0	57.7	55.2	53.0	49.9	47.4	**49.1**	1.2%
Malaysia	32.9	34.5	35.6	36.5	33.9	32.5	33.6	**34.3**	0.9%
Thailand	7.5	8.2	9.6	9.1	10.8	11.8	12.7	**13.4**	0.3%
Vietnam	17.1	17.3	17.7	20.8	19.4	17.8	16.4	**15.4**	0.4%
Other Asia Pacific	9.1	9.0	9.1	8.7	9.3	9.3	10.5	**10.9**	0.3%
Total Asia Pacific	**375.2**	**375.7**	**371.8**	**375.8**	**376.4**	**375.0**	**377.0**	**381.2**	**9.7%**
Total World	**3598.4**	**3573.6**	**3699.6**	**3864.8**	**3891.6**	**3908.8**	**3902.3**	**3928.8**	**100.0%**

Note: Growth rates are adjusted for leap years.

*: Includes crude oil, shale oil, oil sands and NGLs (the liquid content of natural gas where this is recovered separately). Excludes liquid fuels from other sources such as biomass and coal derivatives.

Source: BP Statistical Review of World Energy, 2009

XI.3 Crude Oil Production by OPEC Member Countries

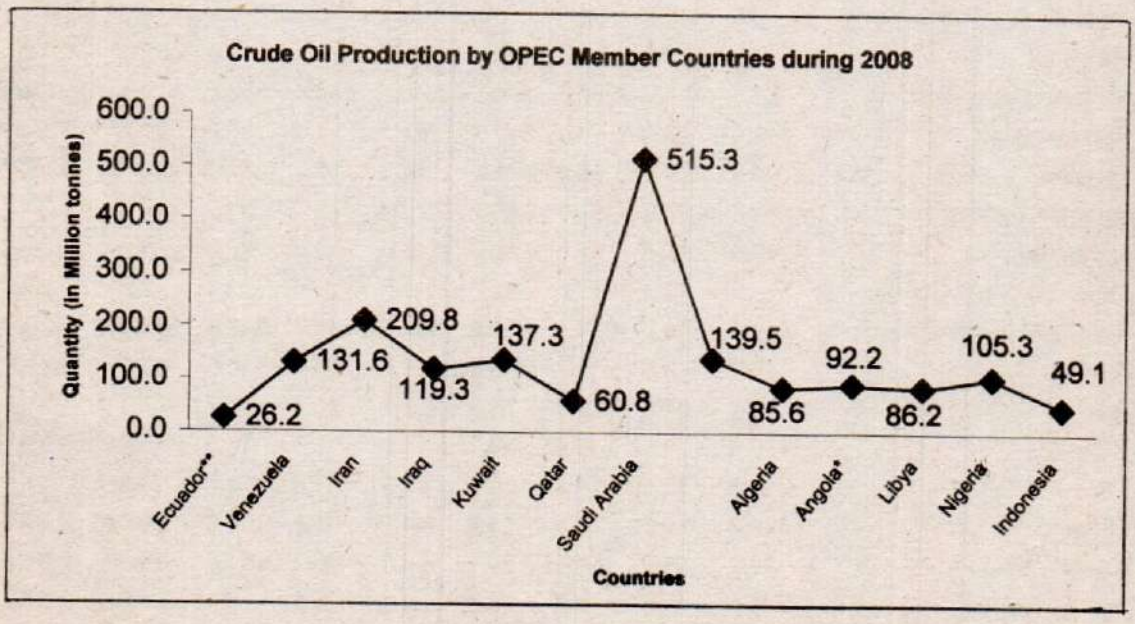
(Million Tonnes)

OPEC Countries	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	10
Ecuador**	21.2	20.4	21.7	27.3	27.6	27.7	26.5	**26.2**	1.5%
Venezuela	161.6	148.8	131.4	150.0	151.0	144.2	133.9	**131.6**	7.5%
Iran	186.5	172.7	203.7	207.9	206.2	208.0	209.7	**209.8**	11.9%
Iraq	123.9	104.0	66.1	100.0	90.0	98.1	105.3	**119.3**	6.8%
Kuwait	105.8	98.2	114.8	122.3	129.3	132.7	129.9	**137.3**	7.8%
Qatar	35.7	35.2	40.8	46.0	47.3	50.9	53.6	**60.8**	3.5%
Saudi Arabia	440.6	425.3	485.1	506.0	526.8	514.3	494.2	**515.3**	29.3%
United Arab Emirates	118.2	108.4	122.2	124.7	129.0	139.0	136.4	**139.5**	7.9%
Algeria	65.8	70.9	79.0	83.6	86.4	86.2	86.5	**85.6**	4.9%
Angola*	36.6	44.6	42.5	48.2	61.2	69.7	84.3	**92.2**	5.2%
Libya	67.1	64.6	69.8	76.6	82.1	85.6	86.0	**86.2**	4.9%
Nigeria	110.8	102.3	110.3	121.9	125.4	120.0	114.2	**105.3**	6.0%
Indonesia	68.0	63.0	57.7	55.2	53.0	49.9	47.4	**49.1**	2.8%
Total OPEC	1541.6	1458.4	1545.1	1669.7	1715.4	1726.3	1707.8	**1758.3**	100.0%

*: Angola joined OPEC in 2007.

**: Ecuador joined OPEC in 1973, suspended its membership from December1992-Oct. 2007.

Source: BP Statistical Review of World Energy, 2009



XI.4 World Production of Natural Gas*

Million tonnes oil equivalent

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
US	508.2	489.9	496.2	481.1	468.1	479.3	494.5	533.0	19.3%
Canada	167.8	169.1	166.2	165.3	168.7	169.6	165.7	157.7	5.7%
Mexico	33.7	35.0	37.0	38.4	40.5	46.4	48.6	49.4	1.8%
Total North America	**709.7**	**694.0**	**699.4**	**684.9**	**677.3**	**695.3**	**708.8**	**740.0**	**26.7%**
Argentina	33.4	32.5	36.9	40.4	41.1	41.5	40.3	39.7	1.4%
Bolivia	4.2	4.4	5.7	8.8	10.7	11.6	12.4	12.5	0.5%
Brazil	6.9	8.3	9.0	9.9	9.9	10.2	10.2	12.5	0.5%
Colombia	5.5	5.5	5.5	5.7	6.0	6.3	6.8	8.2	0.3%
Trinidad & Tobago	13.7	15.6	22.3	24.6	27.3	32.8	35.1	35.4	1.3%
Venezuela	26.6	25.6	22.7	25.6	24.7	28.3	28.9	28.3	1.0%
Other S. & Cent. America	3.5	3.4	3.3	3.6	4.5	5.2	5.8	6.5	0.2%
Total S. & Cent. America	**93.9**	**95.1**	**105.4**	**118.6**	**124.1**	**136.0**	**139.5**	**143.0**	**5.2%**
Azerbaijan	4.5	4.2	4.2	4.1	4.7	5.5	8.8	13.3	0.5%
Denmark	7.5	7.5	7.2	8.5	9.4	9.4	8.3	9.1	0.3%
Germany	15.3	15.3	15.9	14.7	14.2	14.1	12.9	11.7	0.4%
Italy	12.6	12.1	11.5	10.7	10.0	9.1	8.0	7.5	0.3%
Kazakhstan	9.5	9.2	11.3	18.0	20.3	21.5	23.8	27.2	1.0%
Netherlands	56.2	54.3	52.2	61.6	56.3	55.4	54.5	60.8	2.2%
Norway	48.5	59.0	65.8	70.6	76.5	78.9	80.7	89.3	3.2%
Poland	3.5	3.6	3.6	3.9	3.9	3.9	3.9	3.7	0.1%
Romania	12.2	11.9	11.7	11.5	11.2	10.7	10.4	10.4	0.4%
Russian Federation	473.6	484.9	505.2	516.0	522.1	534.4	532.8	541.5	19.6%
Turkmenistan	41.8	43.6	48.1	47.5	51.3	54.3	58.9	59.5	2.1%
Ukraine	14.9	15.2	15.8	16.6	16.9	17.2	17.2	16.9	0.6%
United Kingdom	95.2	93.2	92.6	86.7	79.4	72.0	64.9	62.6	2.3%
Uzbekistan	46.8	46.7	46.8	48.8	48.6	49.0	53.2	56.0	2.0%
Other Europe & Eurasia	9.9	10.1	9.6	10.0	9.7	10.4	9.7	9.2	0.3%
Total Europe & Eurasia	**852.1**	**870.8**	**901.5**	**929.2**	**934.4**	**945.7**	**947.9**	**978.6**	**35.4%**
Bahrain	8.2	8.5	8.7	8.8	9.6	10.2	10.6	12.1	0.4%
Iran	59.4	67.5	73.4	76.4	93.2	97.7	100.7	104.7	3.8%
Kuwait	9.5	8.5	9.9	10.7	11.0	11.3	10.9	11.5	0.4%
Oman	12.6	13.5	14.9	16.7	17.8	21.3	21.6	21.6	0.8%
Qatar	24.3	26.6	28.3	35.3	41.2	45.6	56.9	69.0	2.5%
Saudi Arabia	48.3	51.0	54.1	59.1	64.1	66.2	67.0	70.3	2.5%
Syria	4.5	5.5	5.6	5.8	4.9	5.1	5.1	4.9	0.2%
United Arab Emirates	40.4	39.1	40.3	41.7	43.0	44.1	45.4	45.2	1.6%
Other Middle East	2.7	2.4	1.6	2.3	3.1	3.7	3.7	3.7	0.1%
Total Middle East	**209.9**	**222.5**	**236.6**	**256.6**	**287.9**	**305.2**	**321.9**	**343.0**	**12.4%**

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XI.4 World Production of Natural Gas*

Million tonnes oil equivalent

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
Algeria	70.4	72.3	74.5	73.8	79.4	76.0	76.3	77.9	2.8%
Egypt	22.7	24.6	27.1	29.7	38.3	49.2	50.1	53.0	1.9%
Libya	5.6	5.3	5.0	7.3	10.2	11.9	13.8	14.3	0.5%
Nigeria	13.4	12.8	17.3	20.5	20.2	25.6	31.5	31.5	1.1%
Other Africa	6.1	6.8	6.4	8.4	10.1	10.6	12.2	16.7	0.6%
Total Africa	**118.2**	**121.7**	**130.3**	**139.6**	**158.1**	**173.4**	**184.0**	**193.3**	**7.0%**
Australia	29.2	29.3	29.9	31.7	33.4	35.0	36.0	34.4	1.2%
Bangladesh	9.7	10.3	11.1	11.9	13.1	13.8	14.6	15.6	0.6%
Brunei	10.3	10.3	11.1	11.0	10.8	11.3	11.0	10.9	0.4%
China	27.3	29.4	31.5	37.3	44.4	52.7	62.3	68.5	2.5%
India	23.8	24.8	26.6	26.3	26.7	26.4	27.1	27.5	1.0%
Indonesia	57.0	62.7	65.9	63.3	64.1	63.2	60.9	62.7	2.3%
Malaysia	42.2	43.5	46.6	48.5	54.0	53.7	54.7	56.3	2.0%
Myanmar	6.3	7.6	8.6	9.2	11.0	11.3	12.2	11.2	0.4%
New Zealand	5.3	5.1	3.9	3.5	3.2	3.3	3.7	3.4	0.1%
Pakistan	20.4	22.1	27.4	31.0	32.0	32.5	32.8	33.8	1.2%
Thailand	17.7	18.5	19.6	20.1	21.3	21.9	23.4	26.0	0.9%
Vietnam	1.8	2.2	2.1	3.7	6.2	6.1	6.4	7.1	0.3%
Other Asia Pacific	3.2	4.7	5.8	5.6	6.3	9.4	11.7	12.7	0.5%
Total Asia Pacific	**254.2**	**270.5**	**290.1**	**303.1**	**326.3**	**340.7**	**356.7**	**370.1**	**13.4%**
Total World	**2237.9**	**2274.9**	**2363.4**	**2432.1**	**2508.1**	**2596.3**	**2658.8**	**2768.0**	**100.0%**

Source: BP Statistical Review of World Energy,2009

XI.5 World Consumption of Natural Gas

Million tonnes oil equivalent

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
US	573.9	593.7	577.0	577.9	569.1	560.0	595.4	**600.7**	22.0%
Canada	79.4	81.2	87.9	85.6	88.3	87.3	87.0	**90.0**	3.3%
Mexico	36.7	41.2	45.5	48.0	48.0	54.8	56.8	**60.5**	2.2%
Total North America	**689.9**	**716.0**	**710.4**	**711.4**	**705.4**	**702.1**	**739.3**	**751.2**	**27.6%**
Argentina	28.0	27.2	31.1	34.1	36.4	37.6	39.5	**40.0**	1.5%
Brazil	10.7	12.7	14.2	16.8	17.4	18.5	19.8	**22.7**	0.8%
Chile	6.6	6.6	7.2	7.8	7.5	7.0	4.1	**2.3**	0.1%
Colombia	5.5	5.5	5.4	5.7	6.0	6.3	6.7	**7.3**	0.3%
Ecuador	0.3	0.2	0.2	0.3	0.3	0.7	0.5	**0.5**	*
Peru	0.3	0.4	0.5	0.8	1.4	1.6	2.4	**3.1**	0.1%
Venezuela	26.6	25.6	22.7	25.6	24.7	28.3	29.0	**29.1**	1.1%
Other S. & Cent. America	12.2	12.9	14.3	14.6	17.6	21.6	22.1	**23.6**	0.9%
Total S. & Cent. America	**90.2**	**91.2**	**95.7**	**105.7**	**111.3**	**121.7**	**124.1**	**128.7**	**4.7%**
Austria	7.7	7.7	8.5	8.5	9.0	8.5	8.0	**8.5**	0.3%
Azerbaijan	6.8	6.8	7.0	7.5	7.7	8.2	7.2	**8.4**	0.3%
Belarus	14.1	14.5	14.3	16.1	16.5	17.1	16.9	**17.3**	0.6%
Belgium & Luxembourg	13.2	13.4	14.4	14.9	14.9	15.3	15.2	**15.3**	0.6%
Bulgaria	2.7	2.4	2.5	2.5	2.8	2.9	2.9	**2.9**	0.1%
Czech Republic	8.0	7.8	7.8	8.2	8.6	8.4	7.6	**7.8**	0.3%
Denmark	4.6	4.6	4.7	4.7	4.5	4.6	4.1	**4.1**	0.2%
Finland	3.7	3.6	4.0	3.9	3.6	3.8	3.5	**3.6**	0.1%
France	37.5	37.5	39.0	40.1	41.3	39.7	38.3	**39.8**	1.5%
Germany	74.6	74.3	77.0	77.3	77.6	78.5	74.6	**73.8**	2.7%
Greece	1.8	1.9	2.2	2.4	2.5	2.9	3.6	**3.8**	0.1%
Hungary	10.7	10.6	11.9	11.7	12.1	11.5	10.8	**10.8**	0.4%
Iceland	-	-	-	-	-	-	-	**-**	-
Republic of Ireland	3.6	3.7	3.7	3.7	3.5	4.0	4.3	**4.5**	0.2%
Italy	58.5	58.1	64.1	66.5	71.2	69.7	70.0	**69.9**	2.6%
Kazakhstan	8.8	9.7	11.6	13.4	16.9	18.2	17.6	**18.5**	0.7%
Lithuania	2.5	2.6	2.8	2.8	2.9	2.9	3.3	**2.9**	0.1%
Netherlands	36.0	35.8	36.0	36.8	35.3	34.3	33.3	**34.7**	1.3%
Norway	3.4	3.6	3.9	4.1	4.0	4.0	3.8	**4.0**	0.1%
Poland	10.4	10.1	10.1	11.8	12.3	12.3	12.3	**12.5**	0.5%
Portugal	2.3	2.8	2.7	3.4	3.8	3.7	3.8	**4.1**	0.2%
Romania	14.9	15.5	16.5	15.7	15.8	16.3	14.5	**13.1**	0.5%
Russian Federation	325.4	339.6	343.1	350.9	353.7	377.3	383.1	**378.2**	13.9%
Slovakia	6.2	5.8	5.7	5.5	5.9	5.4	5.1	**5.2**	0.2%
Spain	16.4	18.8	21.3	24.7	29.1	30.3	31.6	**35.1**	1.3%
Sweden	0.6	0.7	0.7	0.7	0.7	0.8	0.9	**0.9**	*
Switzerland	2.5	2.5	2.6	2.7	2.8	2.7	2.6	**2.8**	0.1%
Turkey	14.4	15.6	18.8	19.9	24.2	27.4	31.6	**32.4**	1.2%
Turkmenistan	11.2	11.6	12.8	13.5	14.5	16.5	19.1	**17.1**	0.6%
Ukraine	61.9	60.9	59.2	63.9	63.8	58.6	56.4	**53.8**	2.0%
United Kingdom	86.7	85.6	85.8	87.7	85.2	81.1	81.8	**84.5**	3.1%

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XI.5 World Consumption of Natural Gas

Million tonnes oil equivalent

Country/Region	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	10
Uzbekistan	44.6	45.8	41.2	39.1	38.4	37.7	41.3	**43.8**	1.6%
Other Europe & Eurasia	13.0	12.2	12.7	14.0	14.2	14.7	15.1	**15.4**	0.6%
Total Europe & Eurasia	**909.0**	**926.2**	**948.5**	**978.5**	**999.6**	**1019.2**	**1024.5**	**1029.6**	**37.8%**
Iran	63.1	71.3	74.6	77.9	94.5	97.8	101.7	**105.8**	3.9%
Kuwait	9.5	8.5	9.9	10.7	11.0	11.3	10.9	**11.5**	0.4%
Qatar	9.9	10.0	11.0	13.5	16.8	17.6	17.7	**17.9**	0.7%
Saudi Arabia	48.3	51.0	54.1	59.1	64.1	66.2	67.0	**70.3**	2.6%
United Arab Emirates	34.1	32.8	34.1	36.2	37.8	39.0	44.4	**52.3**	1.9%
Other Middle East	21.3	22.2	22.5	25.0	27.1	30.4	31.3	**36.6**	1.3%
Total Middle East	**186.1**	**195.8**	**206.1**	**222.4**	**251.3**	**262.3**	**273.0**	**294.4**	**10.8%**
Algeria	18.5	18.2	19.3	19.8	20.9	21.4	21.9	**22.8**	0.8%
Egypt	22.1	23.9	26.7	28.5	28.4	32.9	34.5	**36.8**	1.3%
South Africa	-	-	-	-	-	-	-	-	-
Other Africa	15.9	16.2	18.4	21.3	22.1	21.3	23.9	**25.8**	0.9%
Total Africa	**56.4**	**58.2**	**64.4**	**69.6**	**71.4**	**75.5**	**80.3**	**85.4**	**3.1%**
Australia	19.8	20.2	20.2	20.5	19.7	21.6	22.4	**21.2**	0.8%
Bangladesh	9.7	10.3	11.1	11.9	13.1	13.8	14.6	**15.6**	0.6%
China	24.7	26.3	30.5	35.7	42.1	50.5	62.6	**72.6**	2.7%
China Hong Kong SAR	2.7	2.6	1.7	2.4	2.4	2.6	2.0	**2.3**	0.1%
India	23.8	24.8	26.6	28.7	32.1	33.5	36.0	**37.2**	1.4%
Indonesia	27.9	29.6	31.7	29.8	31.7	32.3	30.6	**34.2**	1.3%
Japan	66.8	65.4	71.8	69.3	70.7	75.4	81.2	**84.4**	3.1%
Malaysia	23.2	24.0	24.4	22.0	26.4	26.1	25.7	**27.6**	1.0%
New Zealand	5.3	5.1	3.9	3.5	3.2	3.3	3.7	**3.4**	0.1%
Pakistan	20.4	22.1	27.4	31.0	32.0	32.5	32.8	**33.8**	1.2%
Philippines	0.1	1.6	2.4	2.1	3.0	2.6	3.1	**3.1**	0.1%
Singapore	4.1	4.5	4.8	5.9	5.9	7.7	7.7	**8.3**	0.3%
South Korea	20.8	23.1	24.2	28.4	30.4	32.0	34.7	**35.7**	1.3%
Taiwan	6.6	7.4	7.6	9.2	9.3	10.0	10.6	**11.5**	0.4%
Thailand	22.3	24.2	26.0	26.9	29.3	30.0	31.8	**33.7**	1.2%
Other Asia Pacific	5.2	5.4	5.9	7.8	10.9	11.0	11.7	**12.2**	0.4%
Total Asia Pacific	**283.4**	**296.5**	**320.1**	**335.1**	**362.0**	**385.0**	**411.2**	**436.8**	**16.0%**
Total World	**2215.1**	**2284.0**	**2345.2**	**2422.8**	**2501.0**	**2565.8**	**2652.2**	**2726.1**	**100.0%**

Notes: Growth rates are adjusted for leap years. The difference between these world consumption figures and the world production statistics is due to variations in stocks at storage facilities and liquefaction plants, together with unavoidable disparities in the definition, measurement or conversion of gas supply and demand data.

* Less than 0.05%.

Source: BP Statistical Review of World Energy,2009

XI.6 Productivity of Producing Well in OPEC Member Countries During 2008

Country	Average Depth (Feet)	Wells			Av-daily Production ('000' bbl)	t/w/d
		Flowing	Artificial Lift	Total		
1	2	3	4	5	6	7
Algeria	9644	1525	503	2028	1356.0	91.2
Angola	9201	729	592	1321	1896.3	195.8
Ecuador	9733	83	3365	3448	501.4	19.8
Indonesia	3597	2055	8369	10424	856.7	11.2
I.R.Iran	7235	2054	20	2074	4055.7	266.7
Iraq	na	1288	238	1526	2280.5	203.8
Kuwait	8211	1046	240	1286	2676	283.8
Sp.Libya A.J.	6446	1025	1035	2060	1721.5	114.0
Nigeria	9287	2368	784	3152	2017.4	87.3
Qatar	9240	383	133	516	842.8	222.8
Suadi Arabia	8191	2659	152	2811	9198.0	446.3
U.A.E	8132	1306	476	1782	2572.2	196.9
Venezuela	5764	761	13891	14652	3118.5	29.0
Total OPEC	**7806**	**17560**	**30280**	**47839**	**33093.0**	94.4
Total World	**6959**	**40664**	**603537**	**552647**	**72028.3**	17.8

Note: 1. Summation of wells by category may not equal the total for OPEC due to lack of data for some countries

2. Eastern Europe is not included in the Total World Wells data.

t/w/d: tonne/well/day

na: Not available

Source : OPEC Annual Statistical Bulletin, 2008.

XI.7 World Oil Refining Capacity**

(Thousand barrels daily *)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
US	16785	16757	16894	17125	17339	17443	17594	**17621**	19.9%
Canada	1917	1923	1959	1915	1896	1914	1907	**1951**	2.2%
Mexico	1481	1463	1463	1463	1463	1463	1463	**1463**	1.7%
Total North America	**20183**	**20143**	**20316**	**20503**	**20698**	**20821**	**20964**	**21035**	**23.7%**
Argentina	612	609	609	610	612	614	625	**625**	0.7%
Brazil	1849	1854	1915	1915	1916	1916	1935	**1942**	2.2%
Neth. Antilles & Aruba	545	545	545	545	545	545	585	**595**	0.7%
Venezuela	1291	1291	1291	1306	1311	1311	1311	**1311**	1.5%
Other S. & Cent. America	1988	2028	2017	2023	2041	2061	2070	**2115**	2.4%
Total S. & Cent. America	**6285**	**6327**	**6377**	**6399**	**6425**	**6447**	**6526**	**6588**	**7.4%**
Belgium	785	803	805	782	778	774	745	**745**	0.8%
France	1961	1987	1967	1982	1978	1959	1962	**1962**	2.2%
Germany	2274	2286	2304	2320	2322	2390	2390	**2366**	2.7%
Greece	412	412	412	412	418	425	425	**425**	0.5%
Italy	2485	2485	2485	2497	2515	2526	2497	**2486**	2.8%
Netherlands	1283	1287	1287	1289	1279	1279	1266	**1261**	1.4%
Norway	307	310	310	310	310	310	310	**310**	0.3%
Russian Federation	5299	5357	5371	5371	5421	5473	5522	**5547**	6.3%
Spain	1247	1333	1333	1358	1377	1377	1377	**1377**	1.6%
Sweden	422	422	422	422	422	422	422	**422**	0.5%
Turkey	713	713	713	693	613	613	613	**613**	0.7%
United Kingdom	1769	1785	1813	1848	1819	1836	1819	**1821**	2.1%
Other Europe & Eurasia	5930	5844	5841	5877	5814	5675	5711	**5750**	6.5%
Total Europe & Eurasia	**24987**	**25024**	**25063**	**25161**	**25067**	**25059**	**25060**	**25086**	**28.3%**
Iran	1607	1607	1617	1652	1652	1737	1822	**1832**	2.1%
Iraq	644	644	644	644	649	665	674	**681**	0.8%
Kuwait	759	809	909	931	931	931	931	**931**	1.1%
Saudi Arabia	1806	1810	1890	2075	2100	2100	2100	**2100**	2.4%
United Arab Emirates	674	711	645	620	620	620	625	**673**	0.8%
Other Middle East	1160	1238	1238	1238	1238	1268	1369	**1375**	1.6%
Total Middle East	**6650**	**6819**	**6943**	**7160**	**7190**	**7321**	**7521**	**7592**	**8.6%**
Total Africa	**3140**	**3222**	**3171**	**3110**	**3228**	**3066**	**3052**	**3228**	**3.6%**
Australia	815	829	756	763	711	694	733	**734**	0.8%
China	5643	5479	5487	6289	6587	7029	7511	**7732**	8.7%
India	2261	2303	2293	2558	2558	2872	2983	**2992**	3.4%
Indonesia	1127	1092	1057	1057	1057	1127	1157	**1157**	1.3%
Japan	4705	4721	4683	4567	4529	4542	4598	**4650**	5.2%
Singapore	1255	1255	1255	1255	1255	1255	1255	**1255**	1.4%
South Korea	2598	2598	2598	2598	2598	2633	2671	**2712**	3.1%
Taiwan	874	1159	1159	1159	1159	1140	1197	**1197**	1.4%
Thailand	1062	1062	1062	1062	1065	1092	1112	**1187**	1.3%
Other Asia Pacific	1512	1487	1416	1410	1438	1445	1454	**1482**	1.7%
Total Asia Pacific	**21852**	**21984**	**21766**	**22718**	**22957**	**23829**	**24671**	**25098**	**28.3%**
Total World	**82997**	**83518**	**83835**	**85051**	**85565**	**86542**	**87794**	**88627**	**100.0%**

Note: Annual changes and shares of total are calculated using thousand barrels daily figures.

*: Atmospheric distillation capacity on a calendar-day basis.

**: at the end of each year

Source: BP Statistical Review of World Energy,2009

XI.8 World Refinery Crude Throughput

(Thousand barrels daily*)

Country/Region	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	**9**	10
US	15128	14947	15304	15475	15220	15242	15156	**14645**	19.5%
Canada	1812	1862	1880	1957	1882	1835	1834	**1796**	2.4%
Mexico	1398	1390	1436	1436	1415	1407	1395	**1392**	1.9%
S. & Cent. America	5332	4941	5040	5430	5402	5356	5470	**5479**	7.3%
Europe & Eurasia	19457	19488	19991	20454	20845	20902	20705	**20661**	27.5%
Middle East	5406	5482	5566	5805	6007	6276	6366	**6403**	8.5%
Africa	2440	2377	2301	2304	2477	2367	2470	**2495**	3.3%
Australasia	847	855	823	820	757	749	767	**756**	1.0%
China	4215	4395	4823	5382	5916	6155	6563	**6851**	9.1%
Japan	4107	3986	4118	4038	4136	4026	3995	**3946**	5.2%
Other Asia Pacific	9020	8796	9263	9916	10035	10392	10711	**10754**	14.3%
Total World	**69161**	**68518**	**70545**	**73018**	**74093**	**74707**	**75432**	**75179**	**100.0%**

Note: Shares of total are calculated using thousand barrels daily figures.

*: Atmospheric distillation capacity on a calendar-day basis.

Source: BP Statistical Review of World Energy, 2009

XI.9 Country-wise World Oil Consumption*

(Million tonnes)

Country/Region	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	11
US	896.1	897.4	912.3	948.8	951.4	943.8	942.3	**884.5**	22.5%
Canada	90.5	92.2	95.9	100.6	100.3	99.6	102.8	**102.0**	2.6%
Mexico	85.0	81.5	83.7	85.2	87.7	86.8	89.4	**90.0**	2.3%
Total North America	**1071.6**	**1071.1**	**1091.8**	**1134.6**	**1139.4**	**1130.2**	**1134.5**	**1076.6**	**27.4%**
Argentina	19.1	17.1	17.6	18.4	19.7	20.6	23.2	**24.2**	0.6%
Brazil	92.9	91.6	87.8	88.4	90.1	92.8	99.8	**105.3**	2.7%
Chile	10.5	10.4	10.5	11.1	11.7	12.3	16.1	**16.8**	0.4%
Colombia	11.1	10.0	10.0	10.1	10.3	10.8	10.7	**10.7**	0.3%
Ecuador	5.9	5.9	6.2	6.3	7.5	8.2	8.9	**9.3**	0.2%
Peru	7.0	6.9	6.5	7.2	7.0	6.8	7.1	**7.9**	0.2%
Venezuela	24.8	27.0	22.0	24.2	25.9	27.4	30.0	**32.5**	0.8%
Other S. & Cent. America	59.6	59.8	61.5	61.8	62.4	64.1	64.2	**63.6**	1.6%
Total S. & Cent. America	**230.9**	**228.7**	**222.1**	**227.5**	**234.8**	**243.0**	**260.0**	**270.3**	**6.9%**
Austria	12.8	13.0	14.1	13.8	14.2	14.2	13.4	**13.4**	0.3%
Azerbaijan	4.0	3.7	4.3	4.6	5.3	4.9	4.5	**3.3**	0.1%
Belarus	7.3	7.1	7.2	7.4	7.1	8.0	7.6	**7.7**	0.2%
Belgium & Luxembourg	32.2	33.5	36.4	38.4	39.9	41.1	41.0	**41.3**	1.1%
Bulgaria	4.0	4.5	5.2	4.7	4.9	5.2	5.3	**5.4**	0.1%
Czech Republic	8.4	8.1	8.7	9.5	9.9	9.8	9.7	**9.9**	0.3%
Denmark	9.8	9.6	9.2	9.1	9.2	9.3	9.3	**8.9**	0.2%
Finland	10.5	10.9	11.4	10.6	11.0	10.6	10.6	**10.5**	0.3%
France	95.5	92.9	93.1	94.0	93.1	93.0	91.3	**92.2**	2.3%
Germany	131.6	127.4	125.1	124.0	122.4	123.6	112.5	**118.3**	3.0%
Greece	20.1	20.3	19.7	21.4	21.2	22.2	21.7	**21.4**	0.5%
Hungary	6.7	6.4	6.3	6.5	7.5	7.8	7.7	**7.7**	0.2%
Iceland	0.9	0.9	0.9	1.0	1.0	1.0	1.0	**0.9**	•
Republic of Ireland	9.0	8.8	8.5	8.9	9.4	9.3	9.4	**9.0**	0.2%
Italy	92.8	92.9	92.1	89.7	86.7	86.7	84.0	**80.9**	2.1%
Kazakhstan	8.9	9.3	8.8	9.0	10.0	11.0	11.6	**10.9**	0.3%
Lithuania	2.7	2.5	2.4	2.6	2.8	2.8	2.8	**3.1**	0.1%
Netherlands	43.7	43.8	44.1	46.2	49.6	49.0	46.0	**46.5**	1.2%
Norway	9.7	9.4	9.9	9.6	9.7	10.0	10.2	**9.8**	0.2%
Poland	19.2	19.4	19.9	21.1	21.9	23.3	24.2	**24.9**	0.6%
Portugal	15.8	16.2	15.2	15.4	16.0	14.4	14.4	**13.7**	0.3%
Romania	10.6	10.6	9.4	10.9	10.5	10.3	10.3	**10.6**	0.3%
Russian Federation	122.3	123.5	123.4	123.3	121.9	127.1	126.2	**130.4**	3.3%
Slovakia	3.2	3.5	3.3	3.2	3.8	4.0	4.1	**4.3**	0.1%
Spain	72.7	73.8	75.5	77.6	78.8	78.1	78.8	**77.1**	2.0%
Sweden	15.2	15.2	15.9	15.3	15.1	15.5	14.7	**14.5**	0.4%
Switzerland	13.1	12.4	12.1	12.0	12.2	12.6	11.3	**12.1**	0.3%
Turkey	29.9	30.6	31.0	31.0	30.2	29.5	30.5	**32.3**	0.8%
Turkmenistan	3.7	3.8	4.2	4.2	4.4	5.3	5.4	**5.5**	0.1%
Ukraine	12.7	13.1	13.5	13.9	13.9	15.0	15.3	**15.5**	0.4%
United Kingdom	78.4	78.0	79.0	81.7	83.0	82.3	79.2	**78.7**	2.0%
Uzbekistan	6.5	6.3	7.2	6.5	5.5	5.1	5.4	**5.5**	0.1%
Other Europe & Eurasia	20.7	21.9	23.8	24.5	26.2	26.9	27.9	**29.2**	0.7%
Total Europe & Eurasia	**934.5**	**933.5**	**940.9**	**951.6**	**958.3**	**968.5**	**947.6**	**955.5**	**24.3%**

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XI.9 Country-wise World Oil Consumption*

(Million tonnes)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	11
Iran	62.6	67.1	71.0	73.7	77.3	80.8	81.3	**83.3**	2.1%
Kuwait	10.5	11.4	12.2	13.7	15.2	13.6	13.6	**15.3**	0.4%
Qatar	1.7	2.4	2.1	2.3	2.7	3.3	4.0	**4.6**	0.1%
Saudi Arabia	69.3	70.6	75.5	79.5	83.0	87.4	96.1	**104.2**	2.7%
United Arab Emirates	14.6	15.9	16.3	17.4	18.3	19.5	20.7	**22.9**	0.6%
Other Middle East	69.3	69.4	67.9	70.7	72.3	73.7	74.4	**76.6**	2.0%
Total Middle East	**228.1**	**236.7**	**245.0**	**257.2**	**268.7**	**278.3**	**290.1**	**306.9**	**7.8%**
Algeria	8.8	9.7	10.1	10.6	11.0	11.5	12.9	**14.0**	0.4%
Egypt	26.1	25.2	25.9	26.8	29.8	28.7	30.6	**32.6**	0.8%
South Africa	23.0	23.6	24.2	24.8	24.8	25.3	25.8	**26.3**	0.7%
Other Africa	57.6	58.0	58.5	59.8	62.3	60.9	60.7	**62.3**	1.6%
Total Africa	**115.4**	**116.7**	**118.8**	**122.0**	**128.0**	**126.3**	**129.9**	**135.2**	**3.4%**
Australia	38.1	38.0	38.3	38.8	39.8	41.4	41.7	**42.5**	1.1%
Bangladesh	3.9	3.9	4.0	4.0	4.6	4.5	4.5	**4.6**	0.1%
China	227.9	247.4	271.7	318.9	327.8	346.1	362.8	**375.7**	9.6%
China Hong Kong SAR	11.8	12.9	13.0	15.4	13.9	14.9	16.0	**14.5**	0.4%
India	107.0	111.3	113.1	120.2	119.6	120.4	128.5	**135.0**	3.4%
Indonesia	51.6	54.2	54.0	58.1	58.2	55.2	56.4	**57.4**	1.5%
Japan	247.5	243.6	248.9	241.1	244.1	237.5	229.3	**221.8**	5.6%
Malaysia	20.3	22.1	21.7	22.4	21.5	21.0	22.0	**21.8**	0.6%
New Zealand	6.2	6.4	6.9	6.9	7.1	7.2	7.2	**7.3**	0.2%
Pakistan	18.3	17.9	15.8	16.0	15.3	17.6	19.2	**19.3**	0.5%
Philippines	16.5	15.5	15.5	15.9	14.8	13.3	14.0	**13.4**	0.3%
Singapore	36.4	35.5	33.9	38.1	40.9	44.0	47.4	**49.9**	1.3%
South Korea	103.1	104.7	105.6	104.9	105.4	105.5	108.3	**103.3**	2.6%
Taiwan	47.4	47.6	50.9	51.3	51.3	51.7	52.5	**50.1**	1.3%
Thailand	30.6	33.1	35.1	39.1	40.4	39.3	38.2	**36.7**	0.9%
Other Asia Pacific	24.0	25.0	25.3	26.7	27.9	28.1	29.4	**30.0**	0.8%
Total Asia Pacific	**990.6**	**1018.9**	**1053.7**	**1117.9**	**1132.6**	**1147.7**	**1177.4**	**1183.4**	**30.1%**
Total World	**3571.1**	**3605.5**	**3672.3**	**3810.8**	**3861.8**	**3894.0**	**3939.4**	**3927.9**	**100.0%**

*: Inland demand plus international aviation and marine bunkers and refinery fuel and loss. Consumption of fuel ethanol and biodiesel is also included.

• Less than 0.05%.

Source: BP Statistical Review of World Energy, 2009

XI.10 Product-wise Regional Consumption of Main Petroleum Products

(Thousand barrels daily)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
North America									
Light distillates	10211	10523	10675	10979	11020	11131	11205	**10857**	45.7%
Middle distillates	6812	6655	6861	7133	7249	7297	7318	**6924**	29.2%
Fuel oil	1411	1209	1271	1340	1396	1055	1082	**946**	4.0%
Others	5137	5278	5243	5446	5359	5420	5425	**5026**	21.2%
Total North America	**23571**	**23665**	**24050**	**24898**	**25023**	**24904**	**25030**	**23753**	**100.0%**
of which: US									
Light distillates	8890	9167	9275	9518	9548	9599	9597	**9220**	47.5%
Middle distillates	5884	5735	5886	6116	6198	6226	6199	**5790**	29.8%
Fuel oil	794	686	763	859	914	683	718	**615**	3.2%
Others	4082	4172	4109	4239	4143	4178	4166	**3794**	19.5%
Total US	**19649**	**19761**	**20033**	**20732**	**20802**	**20687**	**20680**	**19419**	**100.0%**
S. & Cent. America									
Light distillates	1517	1506	1496	1452	1551	1637	1746	**1801**	30.5%
Middle distillates	1657	1653	1655	1776	1833	1873	2040	**2126**	36.0%
Fuel oil	827	789	754	740	744	766	810	**814**	13.8%
Others	1009	1029	925	971	1002	1021	1086	**1160**	19.7%
Total S. & Cent. America	**5009**	**4977**	**4830**	**4938**	**5129**	**5297**	**5681**	**5901**	**100.0%**
Europe									
Light distillates	4086	4025	3923	3875	3764	3615	3491	**3365**	20.9%
Middle distillates	6991	6934	7137	7347	7595	7853	7763	**7937**	49.3%
Fuel oil	1986	1995	1952	1888	1855	1773	1667	**1633**	10.1%
Others	3056	3117	3158	3221	3298	3273	3137	**3179**	19.7%
Total Europe	**16120**	**16071**	**16170**	**16331**	**16513**	**16514**	**16058**	**16114**	**100.0%**
Former Soviet Union									
Light distillates	851	882	937	918	934	993	1053	**1096**	27.1%
Middle distillates	1021	1048	1085	1108	1148	1208	1274	**1324**	32.7%
Fuel oil	693	670	643	578	558	615	511	**455**	11.2%
Others	1062	1066	1080	1157	1132	1133	1136	**1170**	28.9%
Total Former Soviet Union	**3627**	**3667**	**3745**	**3760**	**3772**	**3948**	**3973**	**4045**	**100.0%**
Middle East									
Light distillates	949	1011	1059	1177	1241	1325	1326	**1379**	21.5%
Middle distillates	1618	1666	1723	1767	1849	1950	2013	**2124**	33.1%
Fuel oil	1319	1329	1317	1390	1463	1450	1532	**1644**	25.6%
Others	868	941	1039	1036	1064	1092	1213	**1276**	19.9%
Total Middle East	**4754**	**4948**	**5138**	**5370**	**5617**	**5817**	**6084**	**6423**	**100.0%**
Africa									
Light distillates	585	580	605	632	637	617	634	**666**	23.1%
Middle distillates	1013	1039	1066	1070	1119	1137	1181	**1232**	42.8%
Fuel oil	436	425	380	390	437	417	416	**429**	14.9%
Others	419	440	486	509	534	525	545	**554**	19.2%
Total Africa	**2452**	**2484**	**2537**	**2600**	**2728**	**2696**	**2776**	**2881**	**100.0%**

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XI.10 Product-wise Regional Consumption of Main Petroleum Products

(Thousand barrels daily)

Country/Region	2001	2002	2003	2004	2005	2006	2007	2008	2008 share of total
1	2	3	4	5	6	7	8	9	10
Asia									
Light distillates	5771	6021	6283	6644	6781	6826	7147	**7196**	28.4%
Middle distillates	7968	8108	8246	8774	9030	9089	9151	**9496**	37.5%
Fuel oil	3481	3402	3547	3558	3552	3632	3614	**3403**	13.4%
Others	4005	4331	4526	4923	4921	5073	5364	**5244**	20.7%
Total Asia Pacific	**21225**	**21863**	**22601**	**23899**	**24283**	**24620**	**25277**	**25339**	**100.0%**
of which: China									
Light distillates	1256	1352	1489	1673	1776	1853	1983	**2175**	27.2%
Middle distillates	1669	1791	1945	2285	2528	2723	2879	**3178**	39.7%
Fuel oil	780	792	880	956	904	938	892	**716**	8.9%
Others	1167	1352	1489	1858	1777	1867	1988	**1930**	24.1%
Total China	**4872**	**5288**	**5803**	**6772**	**6984**	**7382**	**7742**	**7999**	**100.0%**
Japan									
Light distillates	1720	1759	1788	1793	1822	1813	1790	**1675**	34.6%
Middle distillates	1957	1930	1904	1856	1876	1758	1619	**1500**	31.0%
Fuel oil	678	637	755	660	683	664	664	**712**	14.7%
Others	1067	1021	993	960	963	979	966	**959**	19.8%
Total Japan	**5422**	**5347**	**5440**	**5269**	**5343**	**5213**	**5039**	**4845**	**100.0%**
World									
Light distillates	23989	24549	24976	25676	25929	26145	26801	**26359**	31.2%
Middle distillates	27080	27104	27773	28974	29823	30407	30740	**31163**	36.9%
Fuel oil	10154	9818	9865	9884	10004	9708	9631	**9324**	11.0%
Others	15555	16203	16457	17263	17308	17537	17905	**17609**	20.8%
Total World	**76758**	**77676**	**79071**	**81796**	**83065**	**83797**	**84878**	**84455**	**100.0%**
European Union									
Light distillates	3827	3763	3671	3619	3520	3367	3255	**3139**	21.3%
Middle distillates	6463	6404	6592	6795	6996	7221	7109	**7234**	49.0%
Fuel oil	1796	1792	1743	1703	1705	1651	1553	**1516**	10.3%
Others	2775	2838	2861	2916	2985	2972	2829	**2876**	19.5%
Total European Union *	**14861**	**14797**	**14867**	**15032**	**15205**	**15211**	**14746**	**14765**	**100.0%**
OECD									
Light distillates	17064	17389	17495	17747	17753	17739	17764	**17149**	36.3%
Middle distillates	16529	16295	16684	17095	17483	17676	17459	**17088**	36.1%
Fuel oil	4403	4163	4294	4205	4237	3784	3692	**3513**	7.4%
Others	9696	9828	9803	10026	10015	10074	9915	**9552**	20.2%
Total OECD	**47692**	**47675**	**48276**	**49073**	**49490**	**49274**	**48830**	**47303**	**100.0%**
Other EMEs									
Light distillates	6055	6277	6544	7011	7241	7412	7785	**8115**	24.5%
Middle distillates	9530	9761	10004	10771	11192	11523	12007	**12751**	38.5%
Fuel oil	5057	4986	4928	5102	5209	5309	5428	**5356**	16.2%
Others	4797	5309	5574	6079	6161	6330	6855	**6886**	20.8%
Total Other EMEs £	**25440**	**26333**	**27050**	**28963**	**29804**	**30575**	**32075**	**33108**	**100.0%**

Notes: Shares of total are calculated using thousand barrels daily figures. 'Light distillates' consists of aviation and motor gasolines and light distillate feedstock (LDF) 'Middle distillates' consists of jet and heating kerosines, and gas and diesel oils (including marine bunkers) 'Fuel oil' includes marine bunkers and crude oil used directly as fuel 'Others' consists of refinery gas, LPGs, solvents, petroleum coke, lubricants, bitumen, wax, 'other refined products and refinery fuel and loss.

*:Excludes Estonia, Latvia, Lithuania prior to 1992 and Slovenia prior to 1991

£: Excludes Former Soviet Union

Source: BP Statistical Review of World Energy, 2009

XI.11 World Oil Production, Consumption and Relative Deficit/Surplus in each Country/Region

(Million Tonnes)

Country/Region	2007					2008*			
	Production	Consumption	Deficit/ Surplus	% extent of dependence		Production	Consumption	Deficit/ Surplus	% extent of dependence
1	2	3	4	5		6	7	8	9
North America	642.0	1134.5	-492.5	-43.4		619.2	1076.6	-457.4	-42.5
South & Central America	332.7	260	72.7	28.0		335.6	270.3	65.3	24.2
Middle East	1202.2	290.1	912.1	314.4		1253.7	306.9	946.8	308.5
Africa	488.5	129.9	358.6	276.1		488.1	135.2	352.9	261.0
Asia Pacific	377.0	1177.4	-800.4	-68.0		381.2	1183.4	-802.2	-67.8
of which India	36.2	128.5	-92.3	-71.8		36.1	135	-98.9	-73.3
Japan	-	229.3	-229.3	-100.0		-	221.8	-221.8	-100.0
China	186.7	362.8	-176.1	-48.5		189.7	375.7	-186	-49.5
Australia	24.1	41.7	-17.6	-42.2		23.8	42.5	-18.7	-44.0
OECD	898.0	2246.1	-1348.1	-60.0		864.1	2179.8	-1315.7	-60.4
Europe & Eurasia	860.0	947.6	-87.6	-9.2		851.0	955.5	-104.5	-10.9
Former Soviet Union	624.2	186.2	438	235.2		627.0	189.5	437.5	230.9
Total World	**3902.3**	**3939.4**	-37.1	-0.9		**3928.8**	**3927.9**	0.9	0.0

*: Provisional

Source : BP Statistical Review of World Energy, June 2009

XI.12 World Crude Oil and Petroleum Products Imports and Exports during 2008

Region/Country	Imports		Exports		Imports		Exports	
	Crude	Product	Crude	Product	Crude	Product	Crude	Product
	(Million Tonnes)				(Thousand barrels daily)			
1	2	3	4	5	6	7	8	9
US	487.2	149.5	6.9	87.7	9756	3116	139	1829
Canada	34.6	13.8	96.4	27.2	693	288	1931	566
Mexico	2.0	24.0	72.8	7.2	40	500	1459	150
S. & Cent. America	30.4	41.4	123.8	54.5	610	864	2479	1136
Europe	542.2	138.7	14.0	83.5	10859	2892	281	1741
Former Soviet Union	^	7.1	311.3	93.5	1	149	6235	1948
Middle East	11.0	9.7	895.0	105.7	220	202	17925	2203
North Africa	16.4	8.2	130.7	30.8	329	170	2618	642
West Africa	0.9	13.5	223.0	5.8	18	281	4466	121
East & Southern Africa	25.4	9.0	17.0	0.8	509	189	340	17
Australasia	24.4	19.2	13.7	1.8	489	400	274	37
China	178.8	39.0	3.7	15.0	3581	812	75	313
India	127.7	22.0	^	34.4	2557	458	^	718
Japan	203.2	41.0	-	17.1	4069	856	-	356
Singapore	54.5	76.4	2.0	74.0	1092	1593	40	1542
Other Asia Pacific	231.0	114.6	46.5	70.1	4627	2390	931	1460
Unidentified *	-	0.8	12.8	18.9	-	17	257	394
Total World	**1969.9**	**727.9**	**1969.9**	**727.9**	**39451**	**15175**	**39451**	**15175**

Note: Bunkers are not included as exports. Intra-area movements for example, between countries in Europe are excluded.

*: Includes changes in the quantity of oil in transit, movements not otherwise shown, unidentified military use, etc.

^: Less than 0.05.

Source: BP Statistical Review of World Energy, 2009

XI.13 Export of Crude Oil and Refined Petroleum Products from OPEC

(1,000 bbl/day)

Country	2001	2002	2003	2004	2005	2006	2007	2008*
1	2	3	4	5	6	7	8	9
				Crude Oil				
Algeria	997.3	1,093.5	1,269.3	1,339.2	1,422.2	1,382.3	1,704.8	1,297.6
Angola	710.9	866.0	836.3	954.5	960.8	1,024.5	1,184.2	1,065.2
Ecquador	295.5	303.2	294.4	401.3	399.6	410.8	381.7	390.7
Indonesia	795.5	792.3	588.3	556.2	516.7	527.0	426.2	390.6
I.R. Iran	2,492.3	2,421.6	2,729.5	3,023.6	2,796.5	2,838.8	2,855.1	2,713.0
Iraq	1,735.2	1,517.1	399.1	1,461.5	1485.7	1,524.1	1,708.6	1,940.1
Kuwait	1,856.4	1,710.2	1,866.0	2,019.0	2,265.0	2,472.9	2,352.0	2,446.4
S.P.Libyan AJ	1,212.6	1,204.6	1,271.9	1,446.0	1,468.8	1,608.7	1,576.2	1,560.0
Nigeria	2,075.2	1,876.4	2,231.2	2,422.9	2,375.2	2,298.7	2,197.5	2,113.2
Qatar	638.6	635.1	602.2	607.6	754.1	701.4	689.0	800.0
Saudi Arabia	7,118.4	6,278.1	7,651.5	8,147.5	8,594.3	8,306.9	8100..9	8,380.0
UAE	2,184.9	2,099.5	2,561.6	2,675.6	2,704.0	2,873.1	2,750.4	2,638.8
Venezuela	2,725.8	2,141.7	2,020.0	2,140.0	2,397.1	2,517.8	2,754.4	2,681.9
O P E C	**24,884.0**	**22,939.5**	**24,321.4**	**27,194.9**	**28,140.0**	**28,487.0**	**28,681.1**	**28,418.2**
				Refined Petroleum Products				
Algeria	555.8	527.2	528.3	446.0	451.9	435.1	451.3	456.7
Angola	17.0	16.8	13.4	13.6	13.9	14.2	26.6	20.7
Equator	38.7	59.9	27.4	27.6	19.7	34.5	40.0	42.2
Indonesia	196.3	152.4	155.3	143.5	142.3	225.7	106.9	260.8
I.R. Iran	307.7	328.0	333.2	339.6	402.1	461.6	388.3	274.9
Iraq	25.0	22.5	10.5	11.5	13.5	56.3	65.6	84.9
Kuwait	642.3	572.2	623.1	604.2	614.2	749.5	739.1	707.9
S.P.Libyan AJ	225.0	221.1	145.4	161.5	162.5	183.1	198.4	156.7
Nigeria	65.7	78.2	67.7	66.9	49.3	50.3	53.4	49.2
Qatar	78.1	67.3	61.5	64.9	76.8	81.1	73.9	97.8
Saudi Arabia	1,082.6	993.5	1,128.6	1,334.4	1,385.4	1,277.8	1,138.8	1,058.3
UAE	398.2	485.5	513.6	503.6	509.0	452.8	407.7	304.4
Venezuela	761.1	569.7	485.0	573.8	609.3	598.5	638.8	912.3
O P E C	**4,393.5**	**4,094.3**	**4,092.9**	**4,291.0**	**4,449.7**	**4,620.2**	**4,328.9**	**4,426.7**

Note: Data includes re-exports and exports of petroleum products from gas plants. Totals may not add up due to independent rounding. Data includes re-exports. Nigerian exports include condensates.
Source: OPEC Annual Statistical Bulletin 2008.

XI.14 World Imports of Natural Gas by Country

(Million Standard Cubic Metres)

	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
North America	**118,324**	**118,870**	**121,230**	**131,800**	**132,634**	**126,390**	**144,150**	**129,300**
Canada	4,730	5,350	7,930	11,150	10,140	9,370	13,200	15,900
United States	113,594	113,520	113,300	120,650	122,494	117,020	130,950	113,400
Latin America	**14,220**	**18,700**	**21,480**	**27,730**	**26,680**	**28,700**	**26,220**	**28,180**
Argentina	-	-	-	800	1,740	1,800	1,900	1,300
Brazil	4,420	5,260	5,320	7,600	8,800	9,460	10,050	11,030
Chile	5,140	5,340	6,060	7,200	6,500	5,560	2,400	690
Dominican Republic	-	-	300	130	250	250	250	480
Mexico	3,990	7,450	9,000	11,200	8,600	10,790	10,810	13,800
Puerto Rico	630	630	740	680	670	720	720	810
Uruguay	40	20	60	120	120	120	90	70
Eastern Europe	**40,800**	**42,250**	**44,730**	**51,390**	**51,690**	**53,400**	**47,240**	**47,450**
Bulgaria	2,900	2,800	2,800	2,800	2,850	2,850	2,850	3,100
Estonia	-	-	-	970	970	970	970	630
Former Czechoslovakia	17,600	17,630	17,220	15,930	15,880	16,160	14,220	14,200
Hungary	9,300	10,290	10,300	11,000	10,800	11,670	10,500	11,430
Latvia	-	-	-	1,750	1,750	1,700	1,700	750
Lithuania	-	-	-	2,930	2,930	2,900	2,900	3,090
Poland •	8,000	7,830	8,710	9,810	10,210	10,900	9,300	9,750
Romania	3,000	3,700	5,700	6,200	6,300	6,250	4,800	4,500
Western Europe	**265,324**	**285,125**	**309,674**	**336,060**	**361,360**	**379,550**	**382,115**	**401,600**
Austria	6,550	6,730	7,300	7,880	8,680	8,730	8,300	8,050
Belgium	16,039	16,200	17,800	21,700	21,900	22,650	22,500	20,680
Denmark	-	100	200	280	280	280	140	-
Finland	4,500	4,400	4,840	4,610	4,200	4,400	4,300	4,500
France	41,590	43,110	41,900	47,300	49,000	49,500	46,970	49,350
Germany	78,200	83,790	85,980	88,700	90,700	90,800	83,700	87,050
Greece	1,980	2,020	2,450	2,750	2,860	3,290	3,600	4,140
Ireland	3,500	3,430	3,700	3,350	3,050	4,000	4,160	5,000
Italy	54,750	57,725	62,100	67,700	73,600	77,300	73,950	76,750
Luxembourg	800	900	1,200	1,400	1,400	1,390	1,300	1,200
Netherlands	8,530	12,270	16,700	15,300	17,300	18,500	18,480	17,900
Portugal	2,460	2,680	3,350	3,560	4,200	4,200	4,320	4,500
Spain	18,985	20,900	23,994	27,400	33,400	34,700	35,250	39,400
Sweden	950	1,280	1,250	1,050	1,030	950	1,015	1,000
Switzerland	3,030	2,770	2,920	2,770	2,840	2,800	2,780	3,300
Turkey	16,380	17,720	21,520	22,200	27,000	30,200	36,500	37,500
United Kingdom	3,000	5,100	7,510	13,400	15,100	21,060	30,050	36,450
Former Yugoslavia	4,080	4,000	4,460	4,710	4,820	4,800	4,800	4,830
Middle East	**4,500**	**4,900**	**6,281**	**7,500**	**7,876**	**9,563**	**11,414**	**26,720**
Iran, I.R.	4,500	4,900	5,731	5,200	5,176	6,263	7,264	6,900
Oman	-	-	-	-	-	-	-	1,700
Jordan	-	-	350	1,100	1,300	1,900	2,400	2,720
United Arab Emirates	-	-	200	1,200	1,400	1,400	1,750	15,400
Africa	**1,580**	**2,290**	**2,090**	**2,490**	**3,570**	**3,900**	**4,150**	**4,450**
South Africa	-	-	-	1,190	2,270	2,600	2,850	3,200
Morocco	-	-	600	-	-	-	-	-
Tunisia	1,580	1,690	1,490	1,300	1,300	1,300	1,300	1,250
Asia Pacific	**108,716**	**113,150**	**125,870**	**131,800**	**139,600**	**150,722**	**164,650**	**172,930**
China	-	-	-	-	-	1,000	3,950	4,470
India	-	-	-	2,600	6,000	7,990	10,000	10,850
Japan	74,306	72,770	79,770	76,000	78,000	81,852	88,850	92,030
Korea, South	21,830	24,320	26,230	29,800	30,500	34,100	34,500	36,700
Singapore	1,270	2,660	5,320	6,600	6,600	6,600	6,500	8,200
Taiwan	6,400	7,200	7,480	9,300	9,600	10,200	11,050	12,130
Thailand	4,910	6,200	7,070	7,500	8,900	8,980	9,800	8,550
Total World	**553,464**	**585,285**	**631,355**	**688,770**	**723,410**	**752,225**	**779,939**	**810,630**

Source : OPEC Annual Statistical Bulletin, 2008.

XI.15 World Imports of Refined Products by Country

(1,000 Barrels/ Day)

Country	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
NORTH AMERICA	**1765.0**	**1643.6**	**2765.5**	**2502.0**	**2914.1**	**2754.8**	**2713.1**	**2432.8**
Canada	210.4	188.5	238.0	261.2	298.5	291.8	282.3	347.4
United States	1550.3	1450.7	2523.0	2236.3	2610.9	2458.2	2425.9	2080.4
Others	4.3	4.4	4.5	4.5	4.6	4.8	5.0	5.0
LATIN AMERICA	**1486.4**	**1422.0**	**1366.0**	**1450.3**	**1554.0**	**1723.0**	**1907.1**	**2013.2**
Brazil	297.2	292.8	228.8	215.7	222.1	261.3	320.1	343.5
Cuba	130.0	130.5	43.1	70.8	72.4	74.7	77.2	78.6
Mexico	309.0	242.0	282.3	307.1	382.1	394.7	408.0	477.7
Netherland Antilles	33.8	33.5	49.3	62.7	61.3	63.5	65.9	66.0
Panama	18.1	17.6	17.7	18.2	18.7	19.3	20.0	17.2
Puerto Rico	100.0	99.5	99.9	102.5	105.2	108.1	111.2	106.3
Others	598.3	606.2	644.8	673.4	692.1	801.3	904.8	924.0
EASTERN EUROPE	**221.0**	**226.7**	**331.1**	**372.4**	**398.9**	**418.2**	**397.7**	**352.8**
Bulgaria	9.7	10.9	26.2	30.0	36.3	37.6	34.1	30.2
Ex USSR	10.0	10.0	9.8	10.0	10.4	10.7	11.1	11.4
Hungary	24.3	39.4	35.2	35.1	42.4	44.1	47.3	44.8
Poland	63.0	66.6	111.8	139.0	160.7	165.8	138.8	120.2
Others	114.0	99.8	148.0	158.3	149.1	160.1	166.4	146.2
WESTERN EUROPE	**5247.6**	**4960.6**	**5265.1**	**5572.2**	**6118.5**	**6444.3**	**5984.0**	**6142.3**
Belgium	322.1	299.6	320.7	354.5	415.3	394.5	356.8	374.0
France	543.3	568.9	552.1	647.5	743.1	718.3	693.4	699.5
Germany	945.9	729.8	333.8	691.2	711.8	755.3	582.8	704.3
Italy	324.2	315.1	287.7	283.2	269.6	270.4	241.9	230.3
Netherlands	1000.1	1028.3	1071.1	1174.6	1340.9	1555.7	1368.1	1459.2
United Kingdom	340.7	270.1	341.8	382.8	467.4	550.9	494.6	436.7
Others	1771.2	1748.7	1958.0	2038.5	2170.3	2199.3	2246.3	2238.4
MIDDLE EAST	**362.8**	**345.2**	**483.8**	**544.3**	**464.5**	**514.7**	**530.2**	**537.2**
Syrian Arab Rep.	21.0	20.6	20.9	21.7	20.5	21.2	22.0	20.7
Others	341.8	324.6	462.9	522.7	443.9	493.4	508.3	516.5
AFRICA	**527.8**	**532.7**	**737.0**	**725.3**	**773.7**	**805.0**	**843.3**	**791.8**
Egypt	53.2	52.0	38.8	68.6	75.9	82.0	67.8	68.8
Morocco	29.6	29.1	86.6	66.6	77.2	80.0	83.0	81.8
Nigeria	93.3	102.0	229.3	173.6	154.3	154.8	171.3	129.3
Senegal	9.9	9.8	14.3	15.4	23.9	24.6	25.3	25.3
Tunisia	50.0	50.7	60.8	66.2	63.8	65.7	67.8	67.8
Others	291.8	289.2	307.1	335.0	378.7	397.8	428.1	418.7
ASIA & FAR EAST	**5196.1**	**5303.7**	**5690.3**	**6101.4**	**6170.7**	**6803.1**	**6589.8**	**7085.0**
Australia	85.1	99.4	148.9	202.3	224.6	255.0	252.9	339.6
China	601.7	660.1	567.8	762.1	634.1	733.4	846.6	803.5
Hong Kong	387.6	390.4	295.0	348.0	332.8	347.7	363.2	330.8
India	462.0	455.5	173.7	192.8	244.4	343.4	389.1	408.1
Japan	945.8	970.6	1322.4	1343.8	1323.7	1385.9	954.2	933.5
New Zealand	23.5	29.6	40.2	43.3	38.5	40.3	50.7	44.3
Singapore	626.3	629.5	1269.3	1150.3	1293.9	1496.1	1648.5	1949.3
Others	2064.2	2068.6	1872.9	2058.8	2078.7	2201.5	2084.6	2275.9
TOTAL WORLD	**14806.6**	**14434.6**	**16638.7**	**17268.0**	**18394.3**	**19463.2**	**18965.2**	**19355.1**

Source : OPEC Annual Statistical Bulletin, 2008.

XI.16 World Crude Oil Export by Country

(1,000 Barrels/Day)

Country	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
NORTH AMERICA	**1168.00**	**1174.50**	**1251.70**	**1375.90**	**1378.20**	**1393.40**	**1422.10**	**1554.10**
Canada	1147.80	1154.00	1231.60	1355.50	1357.90	1372.80	1401.20	1525.40
United States	20.20	20.60	20.10	20.40	20.30	20.60	20.90	28.70
LATIN AMERICA	**4813.80**	**4477.70**	**4523.10**	**4605.70**	**4739.10**	**4900.20**	**4727.90**	**4378.80**
Columbia	308.10	300.20	239.20	227.60	231.20	233.80	243.60	246.10
Ecuador	259.40	243.30	267.00	373.70	380.00	376.30	341.70	348.40
Mexico	1872.60	1955.80	2114.10	2123.80	2021.40	2047.70	1738.40	1445.80
Trinidad and Tobago	52.30	71.20	74.50	70.60	69.70	71.00	26.00	10.30
Venezuela	1964.70	1572.00	1535.00	1566.20	1787.80	1919.40	2115.60	1769.60
Others	356.70	335.20	293.20	243.90	249.10	252.20	261.90	558.60
EASTERN EUROPE	**4593.90**	**5583.70**	**6481.90**	**4827.00**	**5344.40**	**5542.70**	**5878.70**	**5658.20**
Ex USSR	4592.20	5581.70	6479.50	4822.00	5335.10	5523.90	5864.30	5646.30
Others	1.70	2.00	2.40	5.00	9.30	18.80	14.50	12.00
WESTERN EUROPE	**4883.00**	**4792.60**	**4419.00**	**4354.80**	**3740.10**	**3443.20**	**3222.20**	**2785.60**
Norway	2978.70	2821.70	2681.00	2730.80	2377.10	2209.80	2011.60	1702.30
United Kingdom	1633.70	1639.50	1389.70	1249.40	1009.40	927.90	933.20	839.80
Others	270.70	331.40	348.30	374.60	353.60	305.50	277.50	243.50
MIDDLE EAST	**15231.90**	**13799.60**	**14591.40**	**16370.00**	**16896.90**	**16893.70**	**16776.10**	**17439.30**
Iran	2184.60	2093.60	2396.30	2684.10	2394.50	2377.20	2466.80	2438.10
Iraq	1710.20	1494.60	388.60	1450.00	1472.20	1467.80	1643.00	1855.20
Kuwait	1214.10	1138.00	12...30	1414.90	1650.80	1723.40	1612.90	1738.50
Oman	962.30	888.80	808.40	765.20	760.80	769.20	683.00	592.70
Qatar	605.50	567.80	540.70	542.70	677.30	620.30	615.10	703.10
Saudi Arabia	6035.90	5284.60	6522.90	6813.10	7208.90	7029.40	6962.10	7321.70
Syrian Arab Rep.	396.00	377.60	317.00	246.80	247.80	247.80	250.20	252.70
United Arab E.	1786.70	1614.00	2048.00	2172.00	2195.00	2420.30	2342.70	2334.40
Others	336.60	340.40	326.60	281.30	289.60	238.30	200.30	202.90
AFRICA	**5098.00**	**5135.30**	**5763.30**	**6380.30**	**6481.50**	**6582.90**	**6883.20**	**6343.90**
Algeria	441.50	566.20	741.00	893.20	970.30	947.20	1253.50	840.90
Angola	693.90	849.30	823.00	940.90	946.90	1010.30	1157.60	1044.50
Cameroon	110.10	103.90	100.10	94.00	95.30	97.40	98.90	99.30
Congo	234.00	227.20	204.60	215.20	236.60	237.50	239.30	240.20
Egypt	53.60	56.60	52.10	42.80	45.00	57.20	44.00	45.00
Gabon	242.80	215.60	209.30	202.20	202.00	203.80	207.10	208.70
S.P.Libyan A.J.	987.60	983.60	1126.50	1284.50	1306.30	1425.60	1377.80	1403.40
Nigeria	2009.40	1798.20	2163.50	2356.00	2326.00	2248.40	2144.10	2098.10
Others	325.10	334.70	343.20	351.50	353.30	355.60	360.80	363.90
ASIA AND PACIFIC	**2275.40**	**2342.40**	**2095.10**	**2005.80**	**1961.10**	**1876.60**	**1923.00**	**1954.60**
Australia	392.10	386.20	314.10	283.60	230.00	234.60	239.30	239.30
Brunei	184.60	193.50	198.40	188.90	198.90	200.70	204.30	206.10
China (P.R.)	152.40	154.80	168.20	109.40	161.20	125.80	76.10	77.10
Indonesia	599.20	639.90	433.00	412.70	374.40	301.30	319.30	294.10
Malaysia	376.50	378.20	391.70	375.50	382.60	390.70	400.60	402.30
Vietnam	337.80	335.20	335.10	395.70	362.80	365.00	385.70	405.40
Others	232.70	254.60	254.50	240.10	251.20	258.70	297.80	330.30
TOTAL WORLD	**38063.90**	**37305.80**	**39125.40**	**39919.50**	**40541.30**	**40632.70**	**40832.60**	**40114.40**
OPEC	20233.30	18601.80	19961.40	22903.90	23690.30	23866.80	24352.20	24189.90
OPEC percentage	53.20	49.90	51.00	57.40	58.40	58.70	59.60	60.30

Note. Revision have been made throughout the time series. Data includes re-exports. Nigerian exports include condensates.

Source OPEC Annual Statistical Bulletin, 2008.

XI.17 World Exports of Refined Products by Country

(1,000 Barrels/ Day)

Country	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
NORTH AMERICA	**1823.9**	**1986.4**	**1870.4**	**1360.6**	**1474.9**	**1633.3**	**1673.0**	**2086.3**
Canada	832.4	954.3	944.0	414.9	442.0	463.3	443.1	444.8
United States	991.5	1032.1	926.3	945.6	1032.8	1169.8	1229.8	1641.4
Others	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
LATIN AMERICA	**2245.2**	**2043.7**	**1942.4**	**2013.8**	**2060.0**	**2129.8**	**2199.4**	**2410.3**
Brazil	148.8	160.9	160.4	185.3	186.7	179.8	192.8	162.8
Ecuador	38.7	44.8	27.4	27.6	19.7	34.5	40.0	42.2
Mexico	95.5	109.0	98.1	82.6	77.7	128.0	121.4	143.5
Netherland Antilles	247.7	216.3	205.2	214.5	219.6	224.2	229.6	231.5
Trinidad and Tobago	151.5	138.0	144.1	126.6	130.2	133.0	104.4	94.2
Venezuela	761.1	569.7	485.0	573.8	609.3	598.5	638.8	912.3
Virgin Islands	397.2	388.4	390.5	395.2	402.7	410.3	419.0	421.3
Others	404.7	416.6	431.7	408.3	414.2	421.5	453.4	402.6
EASTERN EUROPE	**1456.2**	**1800.7**	**1879.1**	**2098.2**	**2076.1**	**2113.5**	**2015.4**	**1455.0**
Romania	54.3	57.9	66.0	66.9	67.7	68.6	95.3	106.4
Ex USSR	1246.5	1582.0	1657.7	1868.0	1836.0	2364.0	1729.5	1126.9
Others	155.3	160.8	155.4	163.4	172.4	180.9	190.6	221.7
WESTERN EUROPE	**4761.5**	**4876.0**	**4738.3**	**5236.5**	**5586.9**	**5781.5**	**5679.5**	**5679.3**
Belgium	448.7	471.4	414.8	452.1	456.6	432.4	429.5	400.3
France	421.1	408.0	431.1	481.1	562.9	535.0	530.8	570.7
Germany	384.0	386.2	384.3	483.5	535.8	556.7	571.8	516.9
Italy	467.7	452.3	441.1	469.6	550.2	501.6	584.8	527.4
Netherlands	1412.4	1404.3	1389.8	1493.7	1604.8	1789.0	1565.3	1644.6
United Kingdom	542.5	644.2	505.0	625.3	615.5	579.5	611.1	560.8
Others	1085.0	1109.5	1172.3	1231.3	1261.2	1387.3	1386.4	1458.5
MIDDLE EAST	**2899.1**	**2835.8**	**3051.7**	**3220.6**	**3375.8**	**3450.8**	**3199.3**	**2905.2**
Bahrain	239.3	246.0	249.4	243.2	253.0	246.3	253.2	237.9
Iran	307.7	328.0	333.2	339.6	402.1	461.6	388.3	274.9
Iraq	25.0	22.5	10.5	11.5	13.5	56.3	65.6	84.9
Kuwait	642.3	572.2	623.1	604.2	614.2	749.5	739.1	707.9
Qatar	78.1	67.3	61.5	64.9	76.8	81.1	73.9	97.8
Saudi Arabia	1082.6	993.5	1128.6	1334.4	1385.4	1277.6	1138.8	1058.3
United Arab E.	398.2	485.5	513.6	503.6	509.0	452.8	407.7	304.4
Others	125.9	120.8	131.8	119.3	121.9	125.6	132.7	139.1
AFRICA	**1205.2**	**1168.4**	**1083.4**	**1032.8**	**1019.7**	**1025.8**	**1077.0**	**1020.5**
Algeria	555.8	527.2	528.3	446.0	451.9	435.1	451.3	456.7
Angola			13.4	13.6	13.9	14.2	26.6	20.7
Egypt	96.3	92.4	90.8	82.6	73.7	68.4	64.7	67.0
Gabon	7.7	7.2	7.3	7.3	7.3	7.3	7.4	7.4
Nigeria	65.7	78.2	67.7	66.9	49.3	50.3	53.4	49.2
S.P.Libyan A.J.	225.0	221.1	145.4	161.5	162.5	183.1	198.4	156.7
Others	254.8	242.4	230.6	255.0	261.1	267.5	275.2	262.8
ASIA AND PACIFIC	**3030.6**	**2912.2**	**3149.7**	**3487.5**	**3673.4**	**3910.3**	**4262.9**	**5113.5**
Australia	149.3	134.5	126.6	139.1	96.9	84.3	63.9	50.2
China (P.R.)	248.8	265.0	329.7	336.3	329.7	323.2	313.3	355.6
Indonesia	196.3	152.4	155.3	143.5	142.3	225.7	106.9	260.8
Japan	91.5	72.3	77.8	89.9	173.4	203.6	287.1	405.8
Malaysia	153.0	147.6	214.6	221.2	229.6	238.4	247.9	189.3
Singapore	839.8	906.6	977.7	1083.4	1124.6	1167.3	1474.5	1623.4
Others	1351.8	1233.8	1268.0	1474.1	1576.8	1667.7	1769.3	2228.5
TOTAL WORLD	**17421.7**	**17623.3**	**17714.9**	**18450.2**	**19266.8**	**20045.0**	**20106.7**	**20669.9**
OPEC	4337.8	4017.6	4092.9	4291.0	4449.7	4620.2	4328.9	4426.7
OPEC percentage	24.9	22.8	23.1	23.3	23.1	23.0	21.5	21.4

Note:Revision have been made throughout the time series.Data includes re-exports of petroleum products from gas plants.

Source : OPEC Annual Statistical Bulletin, 2008.

XI.18 International Petroleum Crude Price Index

(US$/bbl))

Petroleum Spot	Price								
	1990	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9	10
U.K. BRENT	20.89	117.09	119.82	137.91	183.01	260.60	311.90	347.30	466.11
38.0/0.26									
USA WEST TAXAS	24.46	106.3	106.83	127.11	169.42	231.00	270	295.54	408.83
INTERMEDIATE, 40.0/0.4									
USA ANS	21.92	106.48	112.91	135.17	177.05	243.70	na	na	na
27.0/1.06									
UAE DUBAI FATEH	20.38	110.69	116.93	131.35	164.87	242.20	302	335.53	460.50
32.5/1.43									
IRAN LIGHT	20.64	110.95	113.95	130.28	167.64	245.40	295.9	335.76	458.62
33.9/1.4									
IRAN HEAVY	19.91	108.84	115.97	132.24	166.05	241.00	299.7	336.82	459.52
31.0/1.6									
INDONESIA MINAS	23.26	106.36	110.06	126.91	158.34	232.20	280.4	316.25	432.72
33.0/0.1									
NIGERIA	24.16	101.41	104.10	119.04	158.24	230.40	276.7	311.01	416.39
BONNY LIGHT, 36.7/0.1									
MEXICO	22.05	100.77	109.39	128.12	167.66	228.30	271.5	306.49	431.84
ISTHUMAS, 31.8/1.51									
RUSSIA URALS	22.54	101.91	105.68	119.92	152.93	225.30	272.4	308.56	420.90
36.1/2.52									
MALAYSIA TAPIS	26.91	85.36	88.52	100.45	152.88	215.30	260.3	289.37	388.52
44.3/0.2									
AUSTRALIA	23.62	106.77	107.83	126.38	171.80	237.80	287.6	319.86	430.40
GIPPSLAND, 46.0/0.13									
SAUDI ARABIA	18.77	116.68	124.56	140.81	165.90	241.20	302.8	341.93	469.47
ARAB HEAVY, 28.0/3.0									

Note : The number below the crude names show the API gravities and percentage of sulphur by weight.

(1990 =100)

Source : OPEC Annual Statistical Bulletin, 2008.

XI.19 Crude Oil Spot Prices in US $/bbl

Period	Country/Crude Name										
	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Indonesia	I.R.Iran		Iraq	Oman
	Kuwait Exp.	Brega	Forcados	Dukhan	Arab Heavy	Murban	Attacka	Iran Light	Iran Heavy	Basrah	Oman
	31.4/2.6	40.4/0.2	41.4/1.1	41.4/1.1	28.0/3.0	39.4/0.8	42.3/0.09	33.9/1.4	31.0/1.6	34.0/2.0	36.3/0.79
1	2	3	4	5	7	8	9	10	11	12	14
2001	21.37	24.70	24.24	23.74	21.90	24.02	26.45	22.90	21.67	20.00	22.75
2002	23.61	24.96	25.05	24.37	23.38	24.87	25.38	23.52	23.09	23.32	23.94
2003	26.89	28.89	28.65	27.44	26.43	28.25	29.58	26.89	26.34	26.60	27.13
2004	34.08	38.35	38.10	36.05	31.14	36.65	40.87	34.60	33.06	34.60	34.35
2005	48.66	54.22	55.60	53.46	45.28	54.09	57.26	50.66	47.99	48.33	50.48
2006	58.88	65.04	67.07	65.39	56.82	66.07	67.91	61.07	59.27	57.97	62.59
2007	66.35	72.93	74.49	72.33	64.18	72.87	75.44	69.30	67.06	66.40	68.86
2008	91.16	98.12	101.42	98.39	88.12	99.03	102.16	94.66	91.49	92.08	94.51
Jan	85.63	92.50	93.89	91.15	82.85	92.04	96.70	89.21	86.36	85.21	88.54
Feb	87.77	95.48	97.23	94.01	84.96	94.25	100.24	91.76	88.51	88.80	90.12
Mar	95.58	104.23	106.03	101.34	92.67	102.15	108.22	99.35	96.68	97.19	97.82
Apr	101.25	109.72	113.29	107.89	97.66	109.44	115.98	105.92	102.23	103.28	104.09
May	115.79	123.90	127.87	124.82	112.00	124.84	130.36	119.39	116.47	116.35	119.15
Jun	124.37	133.29	137.85	134.08	120.62	134.56	138.67	127.89	124.66	124.46	128.32
Jul	127.57	133.94	138.16	137.40	124.09	137.94	140.26	128.19	126.75	127.00	132.81
Aug	108.84	113.78	116.85	118.07	105.47	119.50	119.22	110.95	108.10	109.16	113.28
Sep	93.15	99.08	103.30	101.05	89.92	101.32	101.39	97.56	93.04	94.84	96.13
Oct	65.88	72.87	76.83	70.51	63.48	71.52	71.86	70.81	66.33	67.99	68.34
Nov	47.13	53.31	57.14	51.88	44.94	53.05	50.80	51.72	47.55	49.11	50.04
Dec	36.47	40.95	45.22	40.95	34.38	43.15	44.50	40.03	36.88	37.27	40.91

Notes : Upto 2005, prices are averages of weakly fob quotations. As of 2006 based on daily quotations.

Source : OPEC Annual Statistical Bulletin, 2008.

XI.20 Crude Oil Spot Prices in US $/bbl

(Average Unit Value, FOB)

Crude	Country	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9	10
Brent	U.K	24.44	25.02	28.83	38.27	54.52	65.14	72.39	96.99
WTI	U.S.A	25.93	26.16	31.06	41.49	56.59	66.02	72.20	99.56
WTS	U.S.A	23.12	24.80	28.33	37.51	51.97	60.89	67.17	95.77
Louisiana Light	Louisiana	25.89	26.29	31.16	41.54	57.04	67.48	75.26	102.24
Dubai	UAE	22.80	23.85	26.76	33.69	49.54	61.52	68.27	93.56
Iranian Light	Iran	22.59	23.52	26.90	34.62	50.74	61.07	69.30	94.41
Iranian Heavy	Iran	22.06	23.10	26.35	33.03	48.40	59.13	67.68	92.02
Urals	Russia	23.11	23.80	27.07	34.13	50.32	61.22	69.16	94.55
Minas	Indonesia	24.06	25.62	29.50	36.96	54.18	65.18	73.42	100.35
Tapis	Malaysia	25.32	25.72	30.06	41.19	58.13	69.98	77.76	104.23

Source : Energy Prices and Taxes, 1st Quarter of 2009. International Energy Agency Publication.

XI.21 Petroleum Products Spot Prices in US $/bbl

(Average Unit Value, FOB)

Product	2001	2002	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9
NW EUROPE								
Gasoline	29.82	29.09	35.46	47.94	63.97	74.17	83.35	100.1
Gas Oil	29.16	27.81	33.99	46.83	67.70	77.47	85.45	122.6
Jet/Kero	30.82	29.25	35.83	50.25	71.18	81.25	89.43	126.6
Naphtha	23.69	24.23	29.99	41.47	52.45	62.23	74.40	87.31
LSFO	19.52	21.81	25.79	25.02	39.18	45.51	53.42	82.06
HSFO	17.79	20.65	23.37	23.91	36.21	45.18	53.39	72.23
U.S.A								
Gasoline	31.00	30.33	37.04	49.61	65.65	76.68	86.35	102.54
Gas Oil	29.82	28.56	35.51	46.89	68.22	75.70	85.13	119.71
Jet/Kero	31.18	29.83	36.29	50.23	71.98	82.03	90.72	127.13
Naphtha	..	..	..	..	..	..	..	..
LSFO	20.70	22.55	27.46	27.96	41.64	46.05	54.07	76.06
HSFO	17.36	20.99	24.41	25.07	36.26	45.09	54.06	73.13
SINGAPORE								
Gasoline	27.43	28.05	34.69	47.23	62.38	73.20	82.82	102.64
Gas Oil	27.32	27.55	32.31	45.69	64.35	76.79	84.96	119.53
Jet/Kero	28.32	28.08	32.90	47.49	67.97	80.6	86.77	121.36
Naphtha	23.75	24.93	29.93	40.74	51.12	61.85	75.03	88.70
LSFO	21.83	23.80	28.11	32.86	45.08	50.61	58.27	87.67
HSFO	20.39	22.95	26.25	27.87	40.40	48.60	58.11	78.46

.. : Not Avaiaible

Source : Energy Prices and Taxes, 1st Quarter of 2009. International Energy Agency Publication.

XI. 22 Natural Gas Prices for Industry and Household Use

US $ /10^7 kcal (GCV Basis)

Country	2001	2002	2003	2004	2005	2006	2007	2008*
1	2	3	4	5	6	7	8	9
A. FOR INDUSTRIAL USE								
Canada	108.1	125.3	210.1	223.6	294.2	272.1	258.5	NA
Czech Repubic	155.9	173.6	203.4	217.5	292.5	402.2	391.7	614.1
Finland	126.0	126.9	158.7	170.3	190.2	248.1	267.9	372.2
France	197.1	182.5	241.8	262.2	330.2	412.2	414.1	607.3
Greece	184.4	181.0	221.5	232.3	312.4	NA	441.4	643.9
Hungary	123.2	143.7	235.7	287.7	345.7	451.7	584.2	748.5
Ireland	143.5	183.3	232.7	291.7	374.0	465.9	c	616.2
Italy	c	c	c	300.4	351.8	454.2	491.9	NA
Japan	406.4	357.0	384.9	392.5	401.5	435.3	453.9	NA
Korea	NA	NA	NA	341.8	392.4	495.2	551.1	499.5
Mexico	163.4	122.7	205.3	300.7	357.1	343.2	347.1	433.2
New Zealand	60.0	65.5	106.1	123.3	166.0	187.0	208.8	NA
Poland	173.3	173.1	175.9	179.4	224.7	294.3	375.1	580.2
Portugal	NA	238.1	287.6	258.5	340.3	399.0	457.7	531.9
Slovak Republic	106.6	132.8	220.6	243.0	287.5	379.0	420.3	622.7
Spain	176.0	165.5	204.0	215.6	254.2	354.9	380.3	486.6
Switzerland	296.4	279.2	320.3	352.3	402.6	487.7	576.6	745.1
Turkey	200.5	215.5	228.9	230.3	304.5	352.7	440.8	572.8
U.K	140.4	146.4	164.7	202.6	298.8	383.8	332.8	NA
U.S.A	198.6	154.4	223.8	252.0	325.2	302.0	291.4	367.1
OECD	184.8	157.3	220.8	253.7	320.5	335.4	336.6	NA
A. FOR HOUSEHOLD USE								
Austria	368.5	379.3	590.6	686.2	729.6	785.0	936.5	1024.3
Canada	294.1	236.2	339.9	361.4	429.5	481.7	488.4	NA
Czech Repubic	233.0	274.8	322.4	352.7	429.2	543.4	577.5	848.8
Denmark	709.2	720.1	895.1	1052.8	1252.6	NA	NA	NA
Finland	221.1	201.6	251.0	269.8	298.1	352.3	383.6	520.6
France	402.7	425.6	521.6	544.3	590.5	706.9	785.7	920.4
Greece	258.2	303.3	392.1	423.6	600.8	NA	1000.2	1214.2
Hungary	150.0	175.8	243.5	224.6	245.1	298.4	615.4	748.6
Ireland	353.0	376.2	503.5	570.0	657.7	917.0	1099.4	1033.9
Italy	c	c	c	118.3	823.4	936.6	1016.2	NA
Japan	1168.2	1086.4	1195.2	1271.5	1245.6	1238.6	1236.4	NA
Korea	NA	NA	NA	454.3	527.9	641.4	713.0	633.9
Lexembourg	300.2	272.7	342.5	367.7	477.5	558.7	NA	NA
Mexico	NA	NA	NA	545.9	631.9	622.2	631.5	736.1
Netherlands	401.4	457.1	602.4	682.5	800.4	899.7	1031.3	1239.9
New Zealand	332.2	338.5	570.5	751.4	830.5	778.4	1244.1	NA
Poland	304.0	336.9	339.9	369.5	443.2	554.5	688.5	979.8
Portugal	NA	651.5	794.0	909.1	963.5	1018.3	1051.0	1066.4
Slovak Republic	115.3	125.7	228.9	351.5	419.2	553.7	657.0	785.6
Spain	507.9	496.9	594.2	643.3	684.7	756.9	867.9	1026.8
Switzerland	490.5	494.7	562.5	612.9	670.7	765.5	866.8	1093.1
Turkey	242.6	254.7	265.3	260.2	362.1	415.4	519.5	659.1
U.K	286.5	317.0	351.8	423.1	481.9	643.8	753.2	826.0
U.S.A	369.1	303.8	365.5	412.8	492.1	528.2	499.5	517.2
OECD	383.6	350.7	417.7	491.2	559.8	629.9	664.1	673.2

NA: Not Available;
GCV: Gross Calorific Value; 0.95 tonne of oil is approximatly 107 kcal. of Gas
c: price is confidential
* : Provisional
Source : Energy Prices and Taxes, 1st Quarter of 2009. International Energy Agency Publication.

XI. 23 Crude Oil Import Costs in US $/bbl

(Average Unit Value, CIF)

Country	2001	2002	2003	2004	2005	2006	2007	2008*
1	2	3	4	5	6	7	8	9
IEA**	23.65	24.19	28.38	36.38	50.67	61.80	69.33	97.19
IEA Europe	23.92	24.30	28.39	36.53	51.74	62.77	70.81	96.83
Australia	26.61	25.80	31.24	40.93	56.71	66.71	77.13	107.83
Austria	25.32	24.64	29.59	38.21	53.15	64.44	71.86	103.05
Belgium	24.20	24.35	27.72	35.35	50.06	61.06	70.35	96.01
Canada	24.87	24.97	29.53	38.13	52.37	64.33	70.04	101.41
France	24.13	24.63	28.87	37.61	52.74	63.69	72.22	97.61
Germany	24.15	24.40	28.44	36.65	52.30	63.29	71.60	96.70
Greece	23.22	24.08	27.17	34.53	50.33	60.97	69.93	93.60
Italy	23.87	24.34	28.58	36.60	51.33	62.50	70.20	96.67
Japan	25.01	24.96	29.26	36.59	51.57	64.03	70.09	100.98
Korea	24.87	24.12	28.80	36.15	50.19	62.82	70.01	98.11
Netherlands	23.48	23.99	27.67	35.02	50.00	61.47	68.74	97.89
New Zealand	26.14	25.89	31.00	41.71	56.07	67.36	73.84	105.80
Spain	23.32	23.95	28.13	36.03	50.54	60.99	68.66	94.86
Sweden	24.03	23.86	28.60	36.47	51.78	62.50	70.13	95.09
U.K	24.45	24.58	29.13	37.75	53.79	65.00	73.80	99.34
U.S.A	22.07	23.52	27.66	35.86	48.82	59.15	66.77	94.97

**: Computed across the countries of the region using import volumes as current weights. Korea and Czech Republic are included since January 2001;Hungary is not included. For reasons as confidentially, data for some countries are not listed separately.

*: Provisional

Source: International Energy Agency's "Energy Prices and Taxes" 1st Quarter of 2009.

XI.24 Spot Prices of Key OPEC Crude Oils

(US $/bbl)

Year/Month	Iran	Kuwait	Nigeria Bonny	Saudi Arabia		UAE
	Light 33.9	Export 31.4	Light 36.7	Light 34.2	Heavy 28.0	Dubai 32.4
1	2	3	4	5	6	7
2001						
January	22.63	21.08	25.43	22.31	20.74	22.56
March	23.58	22.03	24.35	23.77	22.57	23.67
June	25.80	24.25	28.06	26.17	24.88	25.86
September	24.54	22.99	25.98	24.73	23.63	24.37
December	17.69	16.14	18.78	17.99	17.21	17.60
2002						
January	18.95	18.11	19.65	18.83	18.00	18.54
March	22.31	22.74	23.76	23.33	22.51	22.97
June	22.52	23.80	23.98	24.42	23.49	23.87
September	26.87	26.64	28.46	27.10	26.33	26.72
December	26.40	25.65	29.27	26.56	25.42	25.81
2003						
January	29.13	28.08	30.78	29.1	27.78	28.02
March	27.94	27.81	30.83	28.98	27.33	27.76
June	24.43	25.5	27.46	26.15	25.37	25.46
September	26.66	25.78	27.47	26.41	24.92	25.52
December	28.55	28.25	29.64	29.2	27.1	28.06
2004						
January	29.31	29.16	30.94	29.83	27.49	28.93
March	30.78	30.97	33.34	31.62	29.42	30.77
June	32.67	33.83	35.60	34.70	32.00	33.58
September	38.77	36.12	43.56	36.58	32.38	35.52
December	34.77	34.91	39.08	34.64	29.34	34.16
2005						
January	39.87	38.55	44.01	38.26	33.41	37.78
March	48.50	46.42	53.15	46.85	41.81	45.60
June	52.37	51.15	55.93	52.47	48.34	51.37
September	58.74	54.60	65.60	57.63	51.57	56.41
December	53.20	50.83	57.91	52.84	49.16	53.22
2006						
January	58.99	56.52	64.04	58.43	54.91	58.56
March	58.77	55.80	63.80	57.54	54.08	57.82
June	64.30	62.37	70.22	65.03	59.84	65.22
September	58.56	56.75	63.87	59.72	54.56	59.82
December	56.98	55.69	64.28	57.70	53.72	58.69
2007						
January	49.12	48.42	56.18	50.86	46.15	51.92
March	57.92	56.22	64.60	58.08	54.40	58.80
June	67.99	63.61	74.45	65.92	61.44	65.79
September	74.88	71.94	79.87	74.28	69.86	73.36
December	89.12	84.37	93.55	86.29	82.51	85.79
2008						
January	89.21	85.63	94.85	88.75	82.85	87.35
March	99.35	95.58	106.68	99.23	92.67	96.72
June	127.89	124.37	136.44	129.35	120.62	127.82
September	97.56	93.15	100.48	97.57	89.92	95.90
December	40.03	36.47	43.10	38.82	34.38	40.46

Source: OPEC Annual Statistical Bulletin 2008

XI.25 Spot Prices of Major Petroleum Products in Key Trading Centres of the World

(US$bbl)

Market/Product	2007					2008					2009		
	Jan	Mar	June	Sept	Dec	Jan	Mar	June	Sept	Dec	Jan	Mar	June
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAPHTHA:													
North Europeon Market, FOB Rotterdam	66.59	79.22	87.58	91.24	110.06	108.66	113.53	143.54	111.21	33.53	44.54	43.82	62.74
South Europeon Market, FOB Italy	54.77	65.29	72.68	77.52	92.01	91.81	95.98	119.81	92.57	26.29	36.11	42.05	61.16
Carribean Cargoes	57.18	75.60	78.14	84.08	106.60	94.38	104.32	134.09	119.02	31.78	59.33	50.87	74.02
Singapore Cargoes	56.79	70.56	73.12	75.28	92.24	93.12	97.54	125.18	91.89	30.90	41.89	46.53	65.86
Middle East FOB	58.19	69.14	76.39	79.57	95.88	94.67	98.90	124.91	96.88	29.53	39.85	44.26	63.19
GASOLINE (Premium Unl. 95)													
North Europeon Market, FOB Rotterdam	65.11	82.57	na	na	105.68	95.82	108.91	150.09	120.10	46.33	45.98	52.02	81.07
South Europeon Market, FOB Italy	na	na	na	na	106.35	107.01	117.31	151.71	119.15	45.78	44.30	26.66	36.23
US East Coast, NewYork (Unl.regular 87)	59.52	80.96	na	na	97.92	98.88	106.38	139.12	117.30	40.87	48.74	53.83	82.83
Singapore Cargoes	61.59	76.62	84.79	82.51	98.38	100.49	109.66	140.23	107.02	40.97	50.95	54.20	77.15
JET KERO													
North Europeon Market, FOB Rotterdam	70.78	76.82	87.00	93.42	111.11	109.32	134.00	166.50	128.97	59.70	61.48	55.33	78.47
US East Coast, New York	70.07	78.39	88.32	97.29	111.68	111.81	136.96	164.26	137.65	61.64	64.91	55.86	77.05
Carribean Cargoes	70.10	78.27	88.28	96.31	110.05	110.12	131.98	162.69	141.76	58.88	64.18	54.18	77.63
Singapore Cargoes	70.10	75.02	83.75	90.44	108.31	106.17	125.31	164.76	121.42	58.90	60.89	53.34	76.45
Middle East FOB	66.76	72.24	81.19	87.89	104.89	102.90	122.63	160.38	116.44	56.56	58.72	63.50	84.21
GAS OIL/Diesel													
North Europeon Market, FOB Rotterdam	67.79	76.23	85.50	94.83	109.94	108.70	133.01	166.80	na	na	na	na	na
South Europeon Market, FOB Italy	66.93	74.98	85.44	95.31	111.52	109.47	134.27	167.17	na	na	na	na	na
US East Coast, New York	66.13	78.14	87.29	95.23	109.23	107.35	132.13	161.37	125.38	58.93	61.15	53.69	73.45
Carribean Cargoes	63.61	72.12	83.37	91.46	106.60	110.58	128.77	164.35	125.11	56.26	59.33	16.19	23.47
Singapore Cargoes	69.71	75.94	85.67	93.78	111.33	108.94	130.49	170.00	121.57	62.97	61.82	56.20	77.92
Middle East FOB	63.00	70.52	79.09	88.02	102.07	102.23	123.32	161.38	113.61	55.41	57.30	50.06	74.25
FUEL OIL													
North Europeon Market (1%s)	36.04	39.24	46.72	54.49	75.17	74.81	77.69	101.66	84.40	32.67	34.38	36.43	59.46
South Europeon Market,(1%s) FOB italy	34.63	41.45	52.59	58.59	73.12	73.04	77.08	101.76	83.12	34.94	36.58	39.37	60.64
US East Coast, New York (1%s)	45.71	55.10	na	67.22	88.12	89.99	91.08	123.89	na	na	na	na	na
Carribean Cargoes (2%s)	32.07	38.63	48.18	54.06	65.77	65.23	68.09	83.45	76.28	22.46	28.28	32.55	54.73
Singapore Cargoes (380 Cst)	40.24	45.48	53.03	58.15	70.89	70.56	73.86	94.58	87.77	33.27	37.47	38.05	62.34
Singapore Cargoes (180 Cst)	41.23	46.26	53.37	58.90	70.37	70.04	74.57	96.23	88.23	34.00	37.65	38.70	62.77
Middle East (180 Cst)	36.91	42.77	49.86	55.48	65.52	66.01	70.53	89.79	82.53	30.54	34.74	43.60	66.06

Source : OPEC Monthly Statistical Bulletin

XI.26 World Survey of Selected Petroleum Products Prices in 2008

Country	US $ Exchange Rate in National Currencies	Automotive Diesel Oil Non-commercial use (US$/Ltr)	Heavy Fuel Oil For Industry (US$/tonne)	Light Fuel Oil For Household Use (US$/1000Ltr)	Light Fuel Oil For Industry Use (US$/1000Ltr)
1	2	3	4	5	6
Austria	0.68	1.810	..	1270.5	960.7
Belgium	0.68	1.831	NA	1111.4	918.5
Canada	1.07	..	571.3	1038.4	885.6
Czech Republic	17.08	1.859	438.3	1207.9	928.2
Denmark	5.10	1.864	..	1701.1	1044.2
Finland	0.68	1.848	..	1227.0	1005.7
France	0.68	1.857	555.7	1223.0	951.7
Germany	0.68	1.948	..	1111.8	934.3
Greece	0.68	1.763	..	1286.1	1080.7
Ireland	0.68	1.860	447.4	1281.1	1022.2
Italy	0.68	1.962	..	1899.3	1582.7
Japan	103.40	1.359	776.5	1026.2	824.9
Korea	1101.00	1.467	691.9	1122.4	1122.6
Mexico	11.15	0.559	429.8	..	485.8
Netherlands	0.68	1.881	NA	1421.3	..
New Zealand	1.43	1.021	682.6	..	662.8
Norway	5.65	2.173	NA	1581.2	1265.0
Poland	2.41	1.751	486.9	1243.1	965.6
Portugal	0.68	1.846	NA	1371.7	..
Slovak Republic	0.71	1.949	NA	..	1026.1
Spain	0.68	1.652	..	1187.6	1023.8
Sweden	6.60	2.025	NA	1808.7	892.8
Switzerland	1.08	1.868	NA	1011.0	881.9
Turkey	1.30	2.211	999.0	2052.2	..
U.K	0.55	2.152	NA	1070.5	..
U.S.A	1.00	1.000	559.1	847.6	722.6
Total OECD		1.483	..	1105.7	836.8

.. : not available
NA : Not Applicable
Source : International Energy Agency's "Energy Prices and Taxes" 1st Quarter of 2009.

XI.27 Airfield Prices of Jet A-1 Fuel at Major International Airports
(As on 1st April)

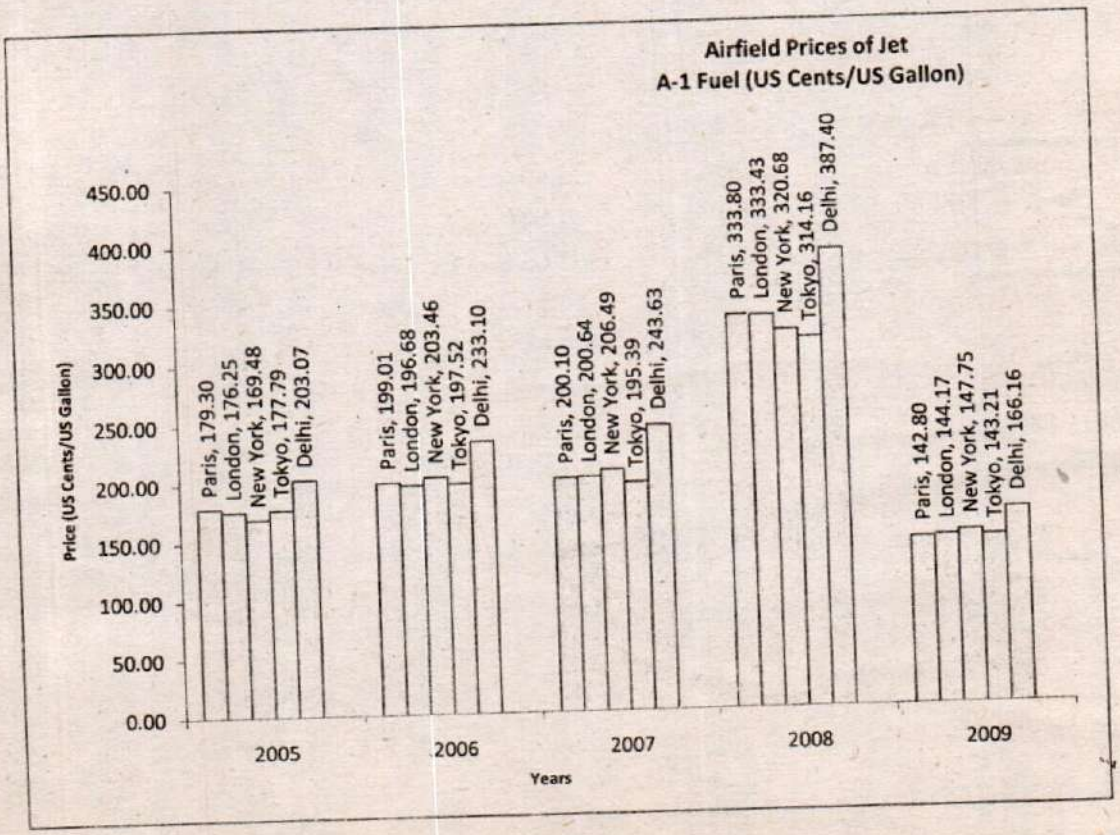
(U.S.Cents/U.S.Gallon)

Ports	2001	2002	2003	2004	2005*	2006*	2007*	2008*	2009*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
Paris	86.79	68.30	99.46	108.26	179.30	199.01	200.10	333.80	142.80
Frankfurt	NA	NA	NA	NA	177.52	192.88	192.99	330.03	140.39
Nairobi	94.14	76.71	NA	NA	182.81	204.61	202.11	333.06	148.94
Kualalampur	76.00	59.90	NA	NA	164.71	186.94	185.56	303.74	132.36
Singapore	73.86	60.45	80.95	97.2	169.25	187.59	186.71	305.59	145.23
Abu Dhabi	92.00	82.00	NA	NA	176.59	196.63	193.47	316.21	146.42
Dubai	89.45	78.30	106.04	110.98	184.10	206.02	202.66	319.89	150.10
London	83.06	62.42	95.12	104.43	176.25	196.68	200.64	333.43	144.17
Kuwait	85.00	74.00	NA	NA	179.97	200.16	197.00	285.94	133.13
New York	81.63	61.04	85.01	104.32	169.48	203.46	206.49	320.68	147.75
Tokyo	71.02	71.02	91.96	111.82	177.79	197.52	195.39	314.16	143.21
Mumbai	113.34	94.43	152.98	156.73	259.65	230.08	241.57	384.85	163.92
Delhi	115.86	97.00	156.10	160.79	203.07	233.10	243.63	387.40	166.16
Madras	111.31	92.95	160.57	166.41	197.58	228.73	238.47	381.12	164.18

*: Average price.

NA : Not available

Source : Air India



XI.28 Tanker Fleet Development in OPEC Members ('000' DWT)

Country	2004		2005		2006		2007		2008	
	NO.	DWT	NO.	DWT	NO.	DWT	NO.	DWT	NO.	DWT
1	2	3	4	5	6	7	8	9	10	11
Algeria	1	23.0	1	23.0	1	23.0	1	23.0	5	331.0
Ecuador	-	-	-	-	-	-	-	-	8	269
Indonesia	29	994.0	29	994.0	29	994.0	40	1,368.0	40	1,368.0
I.R.Iran	32	6,050.0	32	6,050.0	32	6,050.0	29	6,202.0	42	9,560.0
Iraq	1	37.0	1	37.0	1	37.0	1	37.0	2	26.0
Kuwait	22	3,176.0	19	2,941.0	18	2,802.0	22	3,241.0	21	3,113.0
S.P. Libyan,A.J.	6	275.0	6	275.0	6	275.0	8	627.0	8	627.0
Nigeria	2	409.0	2	409.0	2	409.0	2	409.0	2	409.0
Qatar	6	438.0	6	438.0	6	438.0	6	528.0	6	528.0
Saudi Arabia	19	1721	19	1721	41	10055	41	10055	46	10483
UAE	7	275.0	9	400.0	6	218.0	6	218.0	13	660.0
Venezuela	21	1348	21	1348	21	1348	21	1348	16	1091
Total OPEC	146	14747	145	14636	163	22649	177	24056	209	28465
Total World	**3670**	318117	**3892**	**340214**	**4177**	**359618**	**4,418**	**375591**	**4825**	**398196**
OPEC %age		4.6		4.3		6.3		6.4		7.1

Source :OPEC Annual Statistical Bulletin, 2008.

XI.29 Inter-area Total Oil Movements

Thousand barrels daily

To/From	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	10
Imports									
US	11618	11357	12254	12898	13525	13612	13632	**12872**	23.6%
Europe #	11531	11895	11993	12538	13261	13461	13953	**13751**	25.2%
Japan	5202	5070	5314	5203	5225	5201	5032	**4925**	9.0%
Rest of World *	16436	16291	17191	18651	19172	20287	22937	**23078**	42.2%
Total World	**44787**	**44613**	**46752**	**49290**	**51182**	**52561**	**55554**	**54626**	**100.0%**
Exports									
US	910	904	921	991	1129	1317	1439	**1967**	3.6%
Canada	1804	1959	2096	2148	2201	2330	2457	**2498**	4.6%
Mexico	1882	1966	2115	2070	2065	2102	1975	**1609**	2.9%
S. & Cent. America	3143	2965	2942	3233	3528	3681	3570	**3616**	6.6%
Europe	1947	2234	2066	1993	2149	2173	2273	**2023**	3.7%
Former Soviet Union @	4679	5370	6003	6440	7076	7155	8334	**8184**	15.0%
Middle East	19098	18062	18943	19630	19821	20204	19680	**20128**	36.8%
North Africa	2724	2620	2715	2917	3070	3225	3336	**3260**	6.0%
West Africa	3182	3134	3612	4048	4358	4704	4830	**4587**	8.4%
Asia Pacific £	3914	3848	3978	4189	4243	4312	6004	**5392**	9.9%
Rest of World *	1506	1551	1361	1631	1542	1359	1656	**1363**	2.5%
Total World	**44789**	**44613**	**46752**	**49290**	**51182**	**52561**	**55554**	**54626**	**100.0%**

Note: Shares of total are calculated using thousand barrels daily figures.

*: Includes unidentified trade.

£: Excludes Japan. Excludes trade between other Asia Pacific countries and India prior to 2007.

Source: B.P Statistical Review of World Energy, June2009

XI.30 World Primary Energy Consumption by Fuel* during 2008

Million tonnes oil equivalent

Country	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electric	2008 Total
1	2	3	4	5	6	7
US	884.5	600.7	565.0	192.0	56.7	**2299.0**
Canada	102.0	90.0	33.0	21.1	83.6	**329.8**
Mexico	90.0	60.5	9.0	2.3	8.6	**170.4**
Total North America	**1076.6**	**751.2**	**606.9**	**215.4**	**148.9**	**2799.1**
Argentina	24.2	40.0	0.4	1.6	8.4	**74.7**
Brazil	105.3	22.7	14.6	3.1	82.3	**228.1**
Chile	16.8	2.3	3.2	-	5.4	**27.8**
Colombia	10.7	7.3	2.3	-	9.8	**30.2**
Ecuador	9.3	0.5	-	-	2.6	**12.3**
Peru	7.9	3.1	0.5	-	4.5	**15.9**
Venezuela	32.5	29.1	^	-	19.6	**81.4**
Other S. & Cent. America	63.6	23.6	2.2	-	19.9	**109.3**
Total S. & Cent. America	**270.3**	**128.7**	**23.3**	**4.8**	**152.5**	**579.6**
Austria	13.4	8.5	3.1	-	7.9	**33.0**
Azerbaijan	3.3	8.4	^	-	0.5	**12.3**
Belarus	7.7	17.3	^	-	^	**25.1**
Belgium & Luxembourg	41.3	15.3	4.6	10.4	0.1	**71.7**
Bulgaria	5.4	2.9	7.5	3.6	0.8	**20.1**
Czech Republic	9.9	7.8	19.1	6.0	0.5	**43.3**
Denmark	8.9	4.1	4.1	-	^	**17.2**
Finland	10.5	3.6	3.4	5.4	3.9	**26.8**
France	92.2	39.8	11.9	99.6	14.3	**257.9**
Germany	118.3	73.8	80.9	33.7	4.4	**311.1**
Greece	21.4	3.8	8.6	-	0.8	**34.6**
Hungary	7.7	10.8	2.8	3.4	^	**24.7**
Iceland	0.9	-	0.1	-	2.8	**3.9**
Republic of Ireland	9.0	4.5	1.4	-	0.2	**15.1**
Italy	80.9	69.9	17.0	-	8.8	**176.6**
Kazakhstan	10.9	18.5	33.6	-	1.7	**64.7**
Lithuania	3.1	2.9	0.2	2.2	0.2	**8.7**
Netherlands	46.5	34.7	9.2	0.9	^	**91.4**
Norway	9.8	4.0	0.5	-	31.8	**46.0**
Poland	24.9	12.5	59.4	-	0.6	**97.4**
Portugal	13.7	4.1	3.2	-	1.6	**22.6**
Romania	10.6	13.1	7.7	2.5	3.9	**37.8**
Russian Federation	130.4	378.2	101.3	36.9	37.8	**684.6**
Slovakia	4.3	5.2	3.9	3.8	1.0	**18.1**
Spain	77.1	35.1	14.6	13.3	3.8	**143.9**
Sweden	14.5	0.9	2.0	14.5	14.8	**46.7**
Switzerland	12.1	2.8	0.1	6.2	8.1	**29.4**
Turkey	32.3	32.4	30.4	-	7.5	**102.6**
Turkmenistan	5.5	17.1	-	-	-	**22.6**
Ukraine	15.5	53.8	39.3	20.3	2.6	**131.5**
United Kingdom	78.7	84.5	35.4	11.9	1.1	**211.6**

contd...

XI.30 World Primary Energy Consumption by Fuel* during 2008

Million tonnes oil equivalent

Country	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electric	2008 Total
1	2	3	4	5	6	7
Uzbekistan	5.5	43.8	1.4	-	1.4	**52.2**
Other Europe & Eurasia	29.2	15.4	16.1	2.0	17.0	**79.7**
Total Europe & Eurasia	**955.5**	**1029.6**	**522.7**	**276.7**	**180.2**	**2964.6**
Iran	83.3	105.8	1.3	-	1.7	**192.1**
Kuwait	15.3	11.5	-	-	-	**26.8**
Qatar	4.6	17.9	-	-	-	**22.5**
Saudi Arabia	104.2	70.3	-	-	-	**174.5**
United Arab Emirates	22.9	52.3	-	-	-	**75.2**
Other Middle East	76.6	36.6	8.1	-	1.2	**122.5**
Total Middle East	**306.9**	**294.4**	**9.4**	**-**	**2.8**	**613.5**
Algeria	14.0	22.8	0.7	-	0.1	**37.6**
Egypt	32.6	36.8	1.0	-	3.9	**74.3**
South Africa	26.3	-	102.8	3.0	0.2	**132.3**
Other Africa	62.3	25.8	5.7	-	18.1	**111.8**
Total Africa	**135.2**	**85.4**	**110.3**	**3.0**	**22.2**	**356.0**
Australia	42.5	21.2	51.3	-	3.4	**118.3**
Bangladesh	4.6	15.6	0.4	-	0.3	**20.9**
China	375.7	72.6	1406.3	15.5	132.4	**2002.5**
China Hong Kong SAR	14.5	2.3	7.0	-	-	**23.8**
India	135.0	37.2	231.4	3.5	26.2	**433.3**
Indonesia	57.4	34.2	30.2	-	2.7	**124.4**
Japan	221.8	84.4	128.7	57.0	15.7	**507.5**
Malaysia	21.8	27.6	5.0	-	1.5	**56.0**
New Zealand	7.3	3.4	2.1	-	5.0	**17.9**
Pakistan	19.3	33.8	6.7	0.4	6.3	**66.5**
Philippines	13.4	3.1	6.2	-	2.2	**25.0**
Singapore	49.9	8.3	-	-	-	**58.2**
South Korea	103.3	35.7	66.1	34.2	0.9	**240.1**
Taiwan	50.1	11.5	40.2	9.2	0.9	**112.0**
Thailand	36.7	33.7	15.4	-	1.6	**87.3**
Other Asia Pacific	30.0	12.2	34.6	-	11.6	**88.4**
Total Asia Pacific	**1183.4**	**436.8**	**2031.2**	**119.8**	**210.8**	**3981.9**
Total World	**3927.9**	**2726.1**	**3303.7**	**619.7**	**717.5**	**11294.9**

Notes: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent.

*: Primary energy comprises commercially traded fuels only. Excluded, therefore, are fuels such as wood, peat and animal waste which, though important in many countries, are unreliably documented in terms of consumption statistics. Also excluded are wind, geothermal and solar power generation.

^: Less than 0.05.

Source: BP Statistical review of World Energy, 2009

XI.31 Per Capita Primary Energy Consumption Some International Comparisons

(Kg oil equivalent)

Country/Region	Oil	Natural Gas	Coal	Nuclear Energy	Hydro Electric	**2008 Total**
1	2	3	4	5	6	7
US	2,905	1,973	1,855	631	186	7,550
Canada	3,064	2,704	991	634	2,511	9,903
Mexico	836	561	83	21	80	1,582
Total North America	2,417	1,686	1,362	484	334	6,283
Argentina	610	1,008	10	41	212	1,881
Brazil	5,402	1,163	750	161	4,221	11,698
Chile	1,000	140	191	-	321	1,652
Colombia	242	165	51	-	222	680
Ecuador	672	37	-	-	185	894
Peru	282	110	19	-	160	571
Venezuela	1,166	1,045	-	-	704	2,916
Other S. & Cent. America	609	227	-	-	191	1,048
Total S. & Cent. America	919	437	79	16	518	1,970
Austria	1,598	1,016	374	-	938	3,925
Azerbaijan	384	964	-	-	61	1,408
Belarus	794	1,785	-	-	-	2,583
Belgium & Luxembourg	3,683	1,369	410	924	13	6,400
Bulgaria	713	386	981	469	99	2,648
Czech Republic	952	751	1,834	577	52	4,166
Denmark	1,623	751	749	-	-	3,124
Finland	1,987	671	638	1,024	728	5,049
France	14,867	6,417	1,926	16,070	2,314	41,594
Germany	1,439	898	984	410	54	3,785
Greece	1,913	338	767	-	71	3,089
Hungary	774	1,081	280	335	-	2,475
Iceland	3,160	-	343	-	9,355	12,858
Republic of Ireland	2,007	998	309	-	49	3,363
Italy	1,351	1,167	283	-	148	2,949
Kazakhstan	694	1,178	2,137	-	110	4,119
Lithuania	901	859	65	658	66	2,550
Netherlands	2,833	2,117	562	58	-	5,572
Norway	2,032	824	95	-	6,624	9,575
Poland	653	328	1,559	-	17	2,557
Portugal	1,295	390	297	-	152	2,133
Romania	493	609	359	118	180	1,758
Russian Federation	919	2,665	714	260	266	4,824
Slovakia	792	956	729	700	183	3,360
Spain	1,658	754	314	287	81	3,094
Sweden	1,580	94	213	1,581	1,612	5,079
Switzerland	1,587	366	17	820	1,072	3,863
Turkey	432	433	406	-	100	1,372
Turkmenistan	1,057	3,289	-	-	-	4,347
Ukraine	335	1,163	851	440	56	2,845
United Kingdom	1,284	1,379	578	194	19	3,452
Uzbekistan	203	1,612	52	-	51	1,917
Other Europe & Eurasia	31	17	17	2	18	86
Total Europe & Eurasia	560	604	306	162	106	1,738

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XI.34 Primary Energy Consumption* in Selected Countries of the World

Million tonnes oil equivalent

Country	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	10
US	2254.9	2289.2	2296.7	2341.9	2342.7	2323.1	2359.6	**2299.0**	20.4%
Canada	296.7	301.4	310.5	313.7	323.1	319.8	326.1	**329.8**	2.9%
Mexico	136.8	138.1	144.7	147.9	153.4	160.3	163.7	**170.4**	1.5%
Total North America	**2688.4**	**2728.7**	**2751.9**	**2803.6**	**2819.2**	**2803.2**	**2849.4**	**2799.1**	**24.8%**
Argentina	57.7	54.3	58.7	61.9	66.4	70.0	73.2	**74.7**	0.7%
Brazil	179.7	183.6	186.0	193.2	198.8	205.9	220.4	**228.1**	2.0%
Chile	24.4	24.7	25.1	26.4	27.8	29.0	28.8	**27.8**	0.2%
Colombia	26.3	25.7	26.0	26.8	27.6	29.2	29.5	**30.2**	0.3%
Ecuador	7.8	7.8	8.0	8.3	9.4	10.5	11.4	**12.3**	0.1%
Peru	11.7	11.8	11.6	12.4	13.0	13.2	14.4	**15.9**	0.1%
Venezuela	65.2	66.1	58.5	65.6	68.3	74.3	77.8	**81.4**	0.7%
Other S.&Cent.America	89.5	91.7	96.2	96.2	100.3	106.3	108.0	**109.3**	1.0%
Total S.&Cent.America	**462.3**	**465.7**	**470.0**	**490.9**	**511.6**	**538.4**	**563.5**	**579.6**	**5.1%**
Austria	32.9	32.8	33.6	32.9	33.6	32.7	31.9	**33.0**	0.3%
Azerbaijan	11.1	10.9	11.8	12.7	13.8	13.6	12.2	**12.3**	0.1%
Belarus	21.5	21.7	21.5	23.7	23.7	25.1	24.6	**25.1**	0.2%
Belgium & Luxembourg	63.6	64.4	68.1	70.5	71.7	73.1	72.7	**71.7**	0.6%
Bulgaria	18.4	18.6	20.0	19.3	19.9	20.6	20.0	**20.1**	0.2%
Czech Republic	41.5	41.5	43.6	44.7	44.6	44.2	43.8	**43.3**	0.4%
Denmark	18.6	18.4	19.6	18.3	17.4	19.5	18.1	**17.2**	0.2%
Finland	26.4	26.7	28.9	28.6	26.2	27.5	27.5	**26.8**	0.2%
France	257.4	255.5	258.7	262.2	261.8	259.5	254.8	**257.9**	2.3%
Germany	335.2	329.1	330.9	329.1	323.6	327.8	309.3	**311.1**	2.8%
Greece	31.9	32.8	32.5	34.1	33.8	34.6	34.6	**34.6**	0.3%
Hungary	24.1	23.4	24.1	24.0	25.5	25.2	24.8	**24.7**	0.2%
Iceland	2.5	2.6	2.6	2.7	2.7	2.7	3.0	**3.9**	*
Republic of Ireland	14.6	14.4	14.0	14.5	14.8	15.1	15.4	**15.1**	0.1%
Italy	175.6	174.2	179.8	182.8	183.0	181.9	178.5	**176.6**	1.6%
Kazakhstan	42.0	43.8	47.6	50.8	55.9	59.1	61.8	**64.7**	0.6%
Lithuania	8.1	8.6	9.1	9.2	8.4	8.1	8.7	**8.7**	0.1%
Netherlands	89.1	89.5	90.2	92.9	94.5	92.5	89.3	**91.4**	0.8%
Norway	41.0	42.9	38.3	39.0	45.1	41.5	45.1	**46.0**	0.4%
Poland	88.6	87.1	88.5	90.9	90.7	94.4	95.1	**97.4**	0.9%
Portugal	25.0	25.0	25.3	24.8	24.8	24.5	23.9	**22.6**	0.2%
Romania	37.3	38.6	37.8	39.0	39.8	40.6	37.5	**37.8**	0.3%
Russian Federation	620.9	635.3	639.7	647.2	642.8	676.1	679.7	**684.6**	6.1%
Slovakia	18.6	18.7	18.1	17.6	18.7	18.3	17.6	**18.1**	0.2%
Spain	132.4	133.9	140.5	144.9	146.2	146.3	149.2	**143.9**	1.3%
Sweden	52.1	48.5	46.2	48.3	50.8	47.7	48.0	**46.7**	0.4%
Switzerland	31.1	29.1	28.9	28.5	27.5	28.6	28.2	**29.4**	0.3%
Turkey	71.5	75.1	79.7	84.3	89.5	95.7	101.1	**102.6**	0.9%
Turkmenistan	14.9	15.4	17.0	17.7	18.9	21.8	24.5	**22.6**	0.2%
Ukraine	134.0	132.2	132.2	139.3	138.1	136.7	134.7	**131.5**	1.2%
United Kingdom	225.4	220.3	223.8	225.2	225.2	222.4	214.7	**211.6**	1.9%
Uzbekistan	53.4	54.7	51.1	48.3	46.4	45.4	49.5	**52.2**	0.5%
Other Europe & Eurasia	67.3	69.7	73.8	77.6	78.2	75.6	77.0	**79.7**	0.7%
Total Europe& Eurasia	**2827.9**	**2835.3**	**2877.2**	**2925.9**	**2937.7**	**2978.7**	**2956.9**	**2964.6**	**26.2%**

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XI.34 Primary Energy Consumption* in Selected Countries of the World

Million tonnes oil equivalent

Country	2001	2002	2003	2004	2005	2006	2007	**2008**	2008 share of total
1	2	3	4	5	6	7	8	9	10
Iran	127.7	141.4	148.9	155.3	175.9	184.1	188.4	**192.1**	1.7%
Kuwait	20.0	19.9	22.1	24.4	26.2	24.8	24.5	**26.8**	0.2%
Qatar	11.5	12.4	13.1	15.8	19.5	20.9	21.7	**22.5**	0.2%
Saudi Arabia	117.7	121.6	129.6	138.6	147.1	153.6	163.1	**174.5**	1.5%
United Arab Emirates	48.7	48.6	50.4	53.5	56.1	58.5	65.0	**75.2**	0.7%
Other Middle East	98.8	100.3	99.3	105.0	108.4	113.2	114.9	**122.5**	1.1%
Total Middle East	**424.4**	**444.2**	**463.4**	**492.6**	**533.2**	**555.1**	**577.6**	**613.5**	**5.4%**
Algeria	27.9	28.9	30.2	31.3	32.7	33.7	35.6	**37.6**	0.3%
Egypt	52.1	53.0	56.5	59.1	62.1	65.4	69.6	**74.3**	0.7%
South Africa	106.7	110.5	116.7	122.9	119.7	121.7	127.1	**132.3**	1.2%
Other Africa	94.9	96.7	98.8	104.9	109.0	106.7	108.7	**111.8**	1.0%
Total Africa	**281.5**	**289.1**	**302.3**	**318.2**	**323.5**	**327.5**	**341.0**	**356.0**	**3.2%**
Australia	109.4	113.0	112.6	116.0	118.0	123.5	123.2	**118.3**	1.0%
Bangladesh	14.1	14.8	15.7	16.6	18.3	18.9	19.8	**20.9**	0.2%
China	1000.6	1058.3	1229.3	1429.0	1572.2	1722.6	1862.8	**2002.5**	17.7%
China Hong Kong SAR	19.4	20.8	21.2	24.4	22.9	24.5	25.5	**23.8**	0.2%
India	296.5	307.8	316.2	343.9	362.2	378.8	409.2	**433.3**	3.8%
Indonesia	98.8	104.0	105.6	110.3	118.5	113.8	117.9	**124.4**	1.1%
Japan	508.7	505.7	506.2	517.0	519.7	520.4	515.8	**507.5**	4.5%
Malaysia	47.5	50.9	51.6	51.5	55.3	56.1	56.4	**58.0**	0.5%
New Zealand	17.8	18.4	18.0	18.5	17.8	18.1	17.8	**17.9**	0.2%
Pakistan	45.5	47.4	52.4	56.8	58.9	61.8	64.8	**66.5**	0.6%
Philippines	22.7	23.4	24.4	25.0	25.4	23.6	24.9	**25.0**	0.2%
Singapore	40.6	40.0	38.8	44.0	46.7	51.8	55.1	**58.2**	0.5%
South Korea	195.5	204.6	211.4	217.0	224.6	226.8	235.7	**240.1**	2.1%
Taiwan	93.8	97.2	103.0	106.7	108.6	111.2	115.1	**112.0**	1.0%
Thailand	63.2	68.2	72.1	77.7	82.2	83.4	86.0	**87.3**	0.8%
Other Asia Pacific	64.6	65.3	67.2	73.4	78.6	82.6	86.1	**88.4**	0.8%
Total Asia Pacific	**2638.7**	**2739.8**	**2945.8**	**3227.6**	**3430.0**	**3617.9**	**3816.0**	**3981.9**	**35.3%**
Total World	**9323.1**	**9502.8**	**9810.5**	**10258.8**	**10555.3**	**10820.8**	**11104.4**	**11294.9**	**100.0%**

Notes: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent.

* :Primary energy comprises commercially traded fuels only. Excluded, therefore, are fuels such as wood, peat and animalwaste which, though important in many countries, are unreliably documented in terms of consumption statistics. Also excludedare wind, geothermal and solar power generation.

Source : B.P Statistical Review of World Energy

XI. 35 Economic Indicators of OPEC Nations During 2008

Country	Mid Year Population 2008 (Million)	GDP at market prices 2008 (Mn. $)	Per capita GDP 2008 (US $)	Petroleum Exports 2008 (Mn. $)	Total Exports 2008 (Mn. $)	Petroleum Exports as % of total Exports	Proven crude oil reserves 2008 (Bn.bbls)	Gas Reserves 2008 (Bn. CM)	Producing Oil wells 2008	Crude refining Capacity (000/b/d)	Exports of Refined Products (000/b/d)
1	2	3	4	5	6	7	8	9	10	11	12
Algeria	33.38	159.67	4,712	47.02	77.29	60.8	12.20	4504	1356	523	456.7
Angola	17.50	83.38	4,766	64.00	67.24	95.2	9.50	272	1896	39	20.7
Ecuador	13.81	52.57	3,808	11.75	18.49	63.5	6.51	8	501	188	42.2
Indonesia	228.25	511.77	2,242	201.00	147.64	136.1	3.99	3100	857	1051	260.8
Iran	71.29	344.82	4,837	88.92	108.47	82.0	137.62	29610	4056	1474	274.9
Iraq	29.49	102.14	3,464	58.20	58.81	99.0	115.00	3170	2281	659	84.9
Kuwait	2.92	158.09	54,050	84.44	87.50	96.5	101.50	1784	2676	936	707.9
Libya	6.28	100.07	15,926	55.20	60.26	91.6	44.27	1540	1721	380	156.7
Nigeria	151.24	214.40	1,415	74.40	76.83	96.8	37.20	5249	2017	445	49.2
Qatar	0.86	91.76	106,610	38.95	55.96	69.6	25.41	25.466	843	80	97.8
Saudi Arabia	24.82	481.63	19,405	283.21	304.36	93.1	264.06	7570	9198	2135	1058.3
U.A.E	4.52	260.14	57,603	102.50	210.00	48.8	97.80	6091	2575	466	304.4
Venezuela	27.94	320.25	11,464	77.86	83.17	93.6	172.32	4983	3118	1749	912.3
Total	**612.30**	**2,881**	**4,699**	**1,007**	**1,356**	**74.3**	**1027.38**	**93347**	**33093**	**10124**	**4426.7**

Notes: Totals may not add up due to independent rounding.
Source : OPEC Annual Statistical Bulletin, 2008.

XI. 35 Economic Indicators of OPEC Nations During 2008

Country	Mid Year Population 2008 (Million)	GDP at market prices 2008 (Mn. $)	Per capita GDP 2008 (US $)	Petroleum Exports 2008 (Mn. $)	Total Exports 2008 (Mn. $)	Petroleum Exports as % of total Exports	Proven crude oil reserves 2008 (Bn.bbls)	Gas Reserves 2008 (Bn. CM)	Producing Oil wells 2008	Crude refining Capacity (000/b/d)	Exports of Refined Products (000/b/d)
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Total	**612.30**	**2,881**	**4,699**	**1,007**	**1,356**	**74.3**	**1027.38**	**93347**	**33093**	**10124**	**4426.7**

Notes: Totals may not add up due to independent rounding.
Source : OPEC Annual Statistical Bulletin, 2008.

Abbreviations

(I) Companies/Organisations

AOC	:	Assam Oil Company
AOD	:	Assam Oil Division
BPCL	:	Bharat Petroleum Corporation Limited
BRPL	:	Bongaigaon Refinery & Petrochemicals Limited
B/Shell	:	Burmah Shell Oil Storage & Distributing Co. Ltd.
BSR	:	Burmah Shell Refineries Ltd.
Caltex/CIL	:	Caltex (India) Limited.
CORIL	:	Caltex Oil Refining (India) Limited.
KRL	:	Kochi Refineries Limited
EIL	:	Engineers India Limited.
ESSO	:	ESSO Standard Eastern Inc.
ESRC	:	ESSO Standard Refining Company of India Limited.
GAIL	:	GAIL (India) Ltd.
HPCL	:	Hindustan Petroleum Corporation Limited.
IBP Co. Ltd.	:	IBP Co. Limited.
CASTROL	:	Castrol Lubricants & Specialities Limited.
IIP	:	Indian Institute of Petroleum.
IPE	:	Institute of Petroleum Exploration.
IOBL	:	Indian Oil Blending Limited
IOC	:	Indian Oil Corporation Limited.
Lubrizol	:	Lubrizol India Limited.
CPCL	:	Chennai Petroleum Corporation Limited.
POCL	:	Petrosil Oil Company Limited.
OIL	:	Oil India Limited.
ONGC	:	Oil & Natural Gas Commission/Corporation Ltd.
ONGCVL	:	ONGC Videsh Limited
OPEC	:	Organisation of Petroleum Exporting Countries.
TWOC	:	Tide Water Oil Company.
WIODC	:	Western India Oil Distributing Company Limited.
OECD	:	Organisation for Economic Co-operation & Development.
NCW	:	Non Communist World.
EME	:	Emerging Market Economies.

(II) Petroleum Products

ATF	:	Aviation Turbine Fuel.
AVGAS	:	Aviation Gasoline/Spirit.
CBFS	:	Carbon Black Feed Stock.
HHS	:	Hot Heavy Stock.
HSDO	:	High Speed Diesel Oil.
JBO	:	Jute Batching Oil.
LDO	:	Light Diesel Oil.
LSHS	:	Low Sulphur Heavy Stock.
LPG	:	Liquified Petroleum Gas.
MS/Mogas	:	Motor Spirit/Motor Gasoline.
FO	:	Furnace Oil.
MTO	:	Mineral Turpentine Oil.
Pet-coke	:	Petroleum Coke.
SBP-Spirit	:	Special Boiling Point Spirit.
SKO	:	Superior Kerosene Oil.
TDO	:	Tea Drier Oil.
NGL	:	Natural Gas Liquid.

Light Distillates(including Gases): Gasolines, Naphtha, SBP Spirit, Solvent Oils, Hexane, Benzene, Toluene, LPG Refinery Gas and W.D. Mixtures.

Middle Distillates: Kerosene, ATF/Jet-A1, Vaporising Oil, Aromex/Iomex, HSDO, LDO/MLO and JBO, Mineral Turpentine Oils, Chemisperse & LABFS.

(III) Prefixes Used in Metric Tables

Prefix	:	Meaning
Milli	:	One Thousandth (1/1000=0.001)
Centi	:	One Hundredth (1/100=0.01).
Deci	:	One Tenth (1/10=0.1)
Unit	:	One (1).
Deka	:	Ten(10)
Hecto	:	One Hundred (100)
Kilo	:	One Thousand (1,000).
Mega	:	One Million (1,000,000)

(IV) Others

API	:	American Petroleum Institute.
AFRA	:	Average Freight Rate Assessment.
CIF	:	Cost, Insurance and Freight
Crores	:	10 million/100 Lakhs.
DWT	:	Dead Weight Tonnage.
FOB	:	Free on Board
GP	:	General Purpose (16,500-24,999 dwt)
LV	:	Low Viscosity.
HV	:	High Viscosity
HVI	:	High Viscosity Index
KL	:	Kilolitre
LR I	:	Large Range I (45,000-79,999 dwt).
LR II	:	Large Range I I (80,000-159,999 dwt).
LVI	:	Medium Range (25,000-49,999 dwt).
MT	:	Metric Ton.
MTPA	:	Million Tonnes Per Annum.
MV	:	Medium Viscosity.
MVI	:	Medium Viscosity Index.
R&D	:	Research & Development.
ULCC	:	Ultra Large Crude Carrier (320,000-549,999 dwt).
VLCC	:	Very Large Crude Carrier (160,000 dwt and more).
NA	:	Not available.
-	:	Nil
Neg	:	Negligible
Billion	:	10^9 or one thousand Million.
Trillion	:	10^{12} or one million million.
P	:	Provisional.
LoI	:	Letter of Intent
MMSCMD	:	Million Standard Cubic Metres Per Day
CNG	:	Compressed Natural Gas
MoU	:	Memorandum of Understanding

Metric Units

Linear

10 Millimetres	-	1 Centimetre.
10 Centimetres	-	1 Decimetre
10 Decimetres	-	1 Metre
10 Metres	-	1 Decametre
10 Decametres	-	1 Hectometre
10 Hectometres	-	1 Kilometre

Area

100 Sq. Millimetres	-	1 Sq. Centimetre
100 Sq. Centimetres	-	1 Sq. Decimetre
100 Sq. Decimetres	-	1 Sq. Metre
100 Sq. Metres	-	1 Sq. Decametre-1 Acre.
100 Sq. Acres	-	1 Sq. Hectometre-1 Hectare.
100 Hectares	-	1 Sq. Kilometre.

Weight

10 Milligrams	-	1 Centigram
10 Centigrams	-	1 Decigram
10 Decigrams	-	1 Gram
10 Grams	-	1 Decagram
10 Decagrams	-	1 Hectogram
10 Hectograms	-	1 Kilogram.
100 Kilograms	-	1 Quintal
1000 Kilograms	-	1 Metric Tonne.

Capacity

10 Millilitres	-	1 Centilitre
10 Centilitres	-	1 Decilitre
10 Decilitres	-	1 Litre
10 Litres	-	1 Decalitre
10 Decalitres	-	1 Hectolitre
10 Hectolitres	-	1 Kilolitre

Volume

1000 Cubic Millimetres	-	1 Cubic Centimetre
1000 Cubic Centimetres	-	1 Cubic Decimetre.
1000 Cubic Decimetres	-	1 Cubic Metre

Conversion Factors used in Oil Trade Linear and Square Measures

Length

1 Inch	-	25.4 Millimetres (mm)
	-	0.0254 Metres.
1 Foot	-	12 Inches.
	-	0.333333 Yard
	-	0.3048 Metre (m).
1 Yard	-	36 Inches.
	-	3 Feet
	-	0.9144 Metre (m)
1 Metre	-	39.3701 Inches.
	-	3.28084 Feet
	-	1.09361 Yards
	-	0.001 Kilometre (km.)
1 Kilometre	-	1000 Metre (m)
	-	0.621371 Mile
1 Mile	-	1760 Yard
	-	1.60934 Kilometre (km.)
1 International Nautical Mile	-	6076.12 Feet
	-	1.852 Kilometres (km)
	-	1.5152 Statute mile

Area

1 Square Inch	-	645.16 Square Millimetres (mm^2).
1 Square Foot	-	0.0929030 Square Metre (m^2).
1 Square Yard	-	9 Square Feet.
		0.836127 Square Metre (m^2).
1 Square Metre	-	10.7639 Square Feet.
	-	1.19599 Square Yards.
1 Acre	-	4840 Square Yards
	-	4046.86 Sq. Metres (m^2)
	-	0.404686 Hectares.
1 Hectare	-	10,000 Square Metres (m^2).
	-	2.47105 Acres.
	-	0.01 Square Kilometre (km^2)
1 Square Kilometre	-	100 Hectares.
	-	0.386102 Square Mile.
1 Square Mile	-	640 Acres
	-	258.999 Hectares
	-	2.58999 Square Kilometres (km^2).

Mass and Weights

1 Ounce	-	28.3495 Grams (g).
1 Pound	-	0.453592 Kilogram (Kg.)
	-	0.00892857 Hundred Weight
1 Kilogram	-	2.20462 Pounds.
	-	0.01 Quintal
1 Hundred Weight (Cwt)	-	112 Pounds.
	-	50.8023 Kilograms (Kg.)
1 American (Short) Ton	-	2000 Pounds
	-	0.892857 Long Ton
	-	0.97185 Tonnes
1 Tonne (Metric Ton)	-	2204.62 Pounds
	-	1000 Kilograms (Kg.)
	-	1.10231 Short tons
	-	0.984207 Long Ton
1 Imperial (Long) Ton	-	2240 Pounds
	-	1.12 Short Tons.
	-	1.01605 Tonnes.

Energy and Power

1 International Table (IT) Calorie	-	4.1868 Joules (J).
115 C calorie	-	4.1855 Joules (J)
1 Thermochemical Calorie	-	4.184 Joules (J)
1 Kilo Calories (IT)	-	1000 Calories
	-	3.96832 British Thermal Units
	-	1.163 Watt Hours
	-	1 Thermie
1 Kilowatt Hour	-	3412.14 British Thermal Units
	-	859.845 Kilo Calories
	-	3.6 Megajoules (MJ)
	-	1.34102 Horse Power Hours.
1 Therm	-	100,000 British Thermal Units (BTU).
	-	105.506 Megajoules (MJ)
	-	29.3071 Kilowatt Hours
	-	25.1996 Thermies
	-	25200 Kilocalories
1Metric Horsepower (Pferdestaerke or Cheval Vapeur)	-	735.499 watts (W).
	-	542.476 Foot Pounds Force/Second.
	-	0.986320 Imperial Horse Power
1 Imperial Horsepower	-	745.700 Watts (W)
	-	550 Foot Pounds Force/Second
	-	1.01387 Metric Horse Power.
1 Kilowatt	-	737.562 Foot Pounds Force/Second
	-	1.35962 Metric Horsespower
	-	1.34102 Imperial Horsepower.
	-	1000 Watts.
1 BTU	-	0.252 Kilocalories
	-	1.055 Kilojoules

Cubic Measures
Volume

1 Cubic Inch	-	16.3871 Cubic Centimetres (cm^3)
1 Pint	-	0.568261 Cubic Decimetres (dm^3) or Litres.
1 Litre	-	61.024 Cubic Inches.
	-	1.75975 Pints.
	-	1 Cubic Decimeter (dm^3)
	-	0.264172 American Gallons.
	-	0.219963 Imperial Gallons.
	-	0.0353147 Cubic Foot.
1 Hectolitre	-	100 Cubic Decimetres (dm^3) or
	-	100 Litres
1 American Gallon	-	231 Cubic Inches.
	-	3.78541 Cubic Decimetres or Litres
	-	0.832674 Imperial Gallon.
	-	0.133681 Cubic Foot.
	-	0.0238095 American Barrel.
	-	0.00378541 Cubic Metre (M^3)
1 Imperial Gallon	-	277.420 Cubic Inches.
	-	4.54609 Cubic Decimetres (dm^3) or Litres
	-	1.20095 American Gallon.
	-	0.160544 Cubic Foot,
	-	0.02894 American Barrel.
	-	0.00454609 Cubic Metre (m^3)
1 Cubic Foot	-	28.3168 Cubic Decimetres (dm^3) or Litres
	-	7.48052 American Gallons.
	-	6.22883 Imperial Gallons.
	-	0.17811 American Barrel.
	-	0.0283168 Cubic Metre (m^3).
1 Americal Barrel	-	9702 Cubic Inches.
	-	158.987 Cubic Decimetres (dm^3) or Litres.
	-	42 American Gallons.
	-	34.9726 Imperial Gallons.
	-	5.6146 Cubic Feet.
	-	0.158987 Cubic Metre (M^3).
1 Cubic Metres	-	1000 Litres.
	-	264.172 American Gallons
	-	219.969 Imperial Gallons.
	-	35.3147 Cubic Feet.
1 Kilolitre	-	1000 Cubic Decimetres (dm^3) or Litres
	-	6.28981 Americal Barrels.
1 Gross Ton (Shipping)	-	2.83168 Cubic Metres or 100 Cubic Feet
	-	or Permanently Enclosed Space.
1 Ton of Liquified	-	Approx. 16 Barrels.
Methane	-	Approx 1400 Cubic Metres of Natural Gas depending upon Methane Content

Product Conversion Factor
(Conversion Factor from Volume to Tonnes at Natural Temp.)

Product	Litres to Metric Tonnes	Tonnes per K.L.	American Barrels to Metric Tonnes
1	2	3	4
Aviation Spirit 100/130	1421	0.7034	8.94
Aviation Spirit 144/145	1449	0.6901	9.11
Aviation Spirit 73 ON	1432	0.6983	9.01
Motor Spirit 79 ON	1427	0.7008	8.98
Motor Spirit 80 ON	1427	0.7008	8.98
Motor Spirit 93 ON	1386	0.7215	8.72
Motor Spirit 95 ON	1359	0.7358	8.55
Motor Spirit 83 ON/87 ON	1411	0.7087	8.88
JP-4	1384	0.7225	8.71
JP-5	1273	0.7855	8.01
Aviation Turbine Fuel	1288	0.7764	8.10
Naphtha	1467	0.6817	9.23
Power Alcohol	1286	0.7776	8.09
Benzol	1154	0.8666	7.26
SBP Spirit/Hexane	1457	0.6863	9.16
Mineral Turpentine (Laws 140/205)	1302	0.7680	8.19
Liquified Petroleum Gas	1785	0.5602	11.23
Superior Kerosene	1285	0.7782	8.08
Inferior Kerosene	1265	0.7905	7.96
Power Kerosene (Vap. Oil)	1251	0.7994	7.87
High Speed Diesel	1210	0.8263	7.61
Light Diesel Oil	1172	0.8532	7.37
Malarial Oil	1172	0.8532	7.37
Special Larvicides	1175	0.8511	7.39
Furnace Oil	1071	0.9337	6.74
Tea Drier Oil	1071	0.9337	6.74
Hot Heavy Stock/LSHS	1017	0.9833	6.40
Refinery Gas/Ref. Boiler Fuel	1071	0.9337	6.74
Lubricants/Greases	1114	0.8977	7.01
Jute Batching Oil/Wash Oils	1167	0.8569	7.34
Bitumen	1002	0.9980	6.30
SBP/Alcohol Mixture	1414	0.7072	8.89
Methanol Mixture	1106	0.9042	6.96
Carbon Black Feed Stock	1134	0.8818	7.13
Carburetter Testing Fluid	1388	0.7205	8.73
Benzene	1131	0.8812	7.05
Toluene	1148	0.8711	7.19
Demineralised Water	1002	0.9930	6.30
S. Glass Kleanzit	1003	0.9970	6.31
Miscellaneous	1114	0.8977	7.01
Wax/P. Coke/Chemicals	1114	0.8977	7.01
Aromex	1221	0.8190	7.68
Linear Alkyl Benzene Feed Stock	1205	0.8239	7.88

Volume per Metric Ton of Petroleum Products

Products	Kilolitre	Imperial Gallon	U.S. Gallon	Barrel
Liquified Petroleum Gas	1.8519	407.365	489.213	11.648
Aviation Spirit	1.3699	301.332	361.873	8.613
Natural Gasoline	1.3514	297.265	356.990	8.496
Motor Spirit	1.3514	297.265	356.990	8.496
Kerosene	1.2346	271.569	326.137	7.764
Jet Fuel	1.2346	271.569	326.137	7.764
Distillate Fuel Oil	1.1494	252.415	293.522	6.988
Lubricating Oil	1.1111	252.845	303.647	7.231
Fuel Oil N.O.S.	1.0939	241.727	290.301	6.911
Residual Fuel Oils	1.0526	231.551	278.071	6.623
Asphalt and Bitumen	0.9615	211.515	254.013	6.050
Crude Oil	1.1856	260.910	313.340	7.441

Conversion Factors for Duty Reduction from 15^0 C to 29.5^0 C

Product	Conversion Factor
1. Aviation Spirit 100/130	0.9827
2. Aviation Spirit 114/145	0.9820
3. Aviation Spirit 73 Clear	0.9824
4. Aviation Turbine Fuel	0.9862
5. Motor Spirit 83	0.9830
6. Motor Spirit 93	0.9836
7. High Speed Diesel Oil	0.9879
8. Kerosene	0.9864
9. Light Diesel Oil	0.9877
10. Furnace Oil	0.9899
11. Special Boiling Point Spirit 55/115	0.9820
12. Special Boiling Point Spirit 64/69	0.9806
13. Solvent 1425	0.9820
14. Hexane	0.9806

Petroleum Specific Gravities

Degrees A.P.I.	Specific Gravity	Barrels per tonne*	Long Ton*
25	0.9042	6.98	7.09
26	0.8984	7.02	7.13
27	0.8927	7.06	7.18
28	0.8871	7.10	7.22
29	0.8816	7.15	7.27
30	0.8762	7.19	7.31
31	0.8708	7.24	7.36
32	0.8654	7.28	7.40
33	0.8602	7.33	7.45
34	0.8550	7.37	7.49
35	0.8499	7.42	7.54
36	0.8448	7.46	7.58
37	0.8398	7.51	7.63
38	0.8348	7.55	7.67
39	0.8299	7.60	7.72
40	0.8251	7.64	7.76
41	0.8203	7.69	7.81
42	0.8156	7.73	7.85

*Approximate figure at 15.6 degrees C or 60 degree F.

Petroleum Specific Gravity Ranges

Products	Specific Gravity	Barrels Per tonne
Crude Oils	0.80-0.97	8.0-6.6
Aviation gasolines	0.70-0.78	9.1-8.2
Motor Gasolines	0.71-0.79	9.0-8.1
Kerosene	0.78- 0.84	8.2-7.6
Gas Oil	0.82-0.90	7.8-7.1
Diesel Oils	0.82-0.92	7.8-6.9
Lubricating Oils	0.85-0.95	7.5-6.7
Fuel Oils	0.92-0.99	6.9-6.5
Asphaltic Bitumens	1.00-1.10	6.4-5.8

Crude Oil Conversions@

To convert these into	Metric Tons	Barrels	Kilolitres	1,000 Imp. Gallon	1,000 U.S. Gallon
Metric Tons	1	7.33	1.16	0.256	0.308
Barrels	0.136	1	0.159	0.035	0.042
Kilolitres	0.863	6.29	1	0.220	0.264
1,000 Imp. Gallons	3.91	28.6	4.55	1	1.201
1,000 U.S. Gallons	3.25	23.8	3.79	0.833	1

@ = Based on World Average Gravity (Excluding Natural Gas liquids)

Multiplier for Conversion of one Metric Tonne of Petroleum Products to one Tonne of Oil Equivalent

Product	Multiplier
L.P.G.	1.130
Naphtha	1.075
Aviation Gasoline	1.070
Motor Gasoline	1.070
Jet Fuel	1.065
Kerosene	1.045
Gas/diesel	1.035
Residual Fuel Oils	0.985
Others	0.960

Average International Calorific Value of different Fules.

Products	K Cals./Kg. (M. Cals/Tonne)	BTUs/Kg.
1	2	3
A. Oil Equivalence		
Average Crude Oil/NGLS(a)	10,300	40,870
United Nations	10,175	40,375
B. Oil Products:		
NGL	12,135	48,150
Motor Gasoline	11,135	44,190
Kerosene	10,638	42,210
Jet Fuel	11,790	46,790
Gas Oil	10,790	42,820
Fuel Oil	10,440	41,430
C. Coal Equivalence:		
Average Hard Coal (b)	7,000	27,775
D. INDIA		
Hard Coal	5,000	19,840
Lignite-Brown Coal	2,310	916
Firewood@	4,750	18,848
Charcoal@	6,900	27,379
E. Natural Gas-Production: (Average) India		**K cals/Cu. Metre**
		8,000-9,480
F. Electricity:		
Output Basis(c)		860
Fuel Input basis(d)		2,500-2,700

Note: (a) Represent average global factor for crude Oil/NGL production. For a specific crude oil, relevant conversion factor may have to be used.

(b) Factor used by United Nations to represent average calorific value of hard coals for purposes of standardising coal production to hard coal equivalent base.

(c) Calorific value of 1kwh of electricity.

(d) Represents K cals of hydro-carbon energies required to produce 1 kwh of electricity.

'@ : As per Report of Fuel Policy Committee 1974

Conversion Factor: 1 K Cal=4.19 KJoules.

Coefficients used to Convert from Original Units into Standarad Coal Equivalents

	Products	Hard Coal	Lignite Brown Coal	Fuel Wood
	1	*2*	*3*	*4*
A.	**Primary Solids**			
1	Standard Factor	1	0.385	0.333
2	India	0.714	0.330	
B.	**Other Hydrocarbons**			
1	Petroleum Crude	1.454		
2	Natural Gas Liquids (wt.av.)	1.542		
3	Gasolines	1.500		
4	Kerosene & Jet Fuel	1.474		
5	Gas-Diesel Oil	1.450		
6	Residual Fuel Oil	1.416		
7	Liquified Petroleum Gases	1.554		
8	Natural Gasoline	1.532		
9	Condensate	1.512		
10	Other Natural Gas Liquids	1.512		
11	Natural Gas (in Terajoules)*	34.121		
12	Other Gases(in Terajoules)*	34.121		
13	Hydro, Nuclear and Geothermal Electricity (In 1,000 kwh)	0.123		

Note: *= The average calorific value of gas is measured in Kcal/m3 (st.) i.e. in Kcal per cubic metre of gas under standard conditions of 15° C, 013.25 mbar, dry.

Coal Replacement and Equivalents of different Fuels

Fuels	Original Unit	Unit million tonnes of coal equivalent (mtce)	Unit million tonnes of coal replacement (mtcr)
1	*2*	*3*	*4*
Coal coking (6640 K cal/Kg),	1mt	1.0	1.0
Non-coking coal used in steam			
Generation (5000 Kcal/kg.)			
Hard Coke	1mt	1.3	1.3
Soft Coke	1mt	1.5	1.3
Firewood (4750 Kcal/Kg.)	1mt	0.95	0.95
Char Coal (6900 Kcal/Kg.)	1mt	1.0	1.0
	Oil Products: 10,000 Kcal/Kg.		
Black Products:(Fuel Oil, FO,			
Refinery,Fuel,LSHS&HHS)	1mt	2.0	2.0
Kerosene & LPG	1mt	2.0	8.0
HSDO & LDO	1mt	2.0	9.0
Motor Spirit & Jet Fuel	1mt	2.0	7.5
Natural Gas(9000k CAL/kg)	$109m^3$	1.8	3.6
Electricity	109 kwh	1.0	1.0

Note: m : Million mt: Million Tonnes
mtce : Million Tonnes of Coal Equivalent
mtcr : Million Tonnes of Coal Replacement

Source : Fuel Policy Committee 1974

Approximate Calorific Equivalents (Oil = 10,000 K Cal/Kg.)

Items		Million Tonnes of Oil equals
1 Heat Units	=	40 million BTU
	=	397 million therms
	=	10,000 teracalories
2 Solid Fuels	=	1.5 million tonnes of Coal
	=	3.0 million tonnes of lignite
3 Natural Gas	=	(1 Cub metre = 9000 K cal).
(1 cub.ft.=1000 BTU)	=	1.111 thousand million cub metres
	=	39.2 thousand million cubic feet
	=	107 million cubic feet per day of a year
4 Electricity		
(1 Kwh=3412 BTU)	=	12 thousand million KWH
(1 Kwh=860 KCal)		

Heat Units and others expressed in terms of Million Tonnes of Oil

Items	Million Tonnes of Oil equals
1 Heat Units	
10 million million BTU	0.25
100 million therms	0.25
10,000 teracalories	1
2 Solid Fuels	
1 million tonnes of coal	0.67
1 million tonnes of lignite	0.33
approximates to	
3 Natural Gas	
1 thousand million cub, metres(BCM)	0.9
4 Town Gas	
1 thousand million cub. Metres (BCM)	0.42
5 Electricity	
12 thousand million KWH	0.86

Note: One million tonnes of oil produces about 4000 million units (KWH) of electricity in a modern power station.

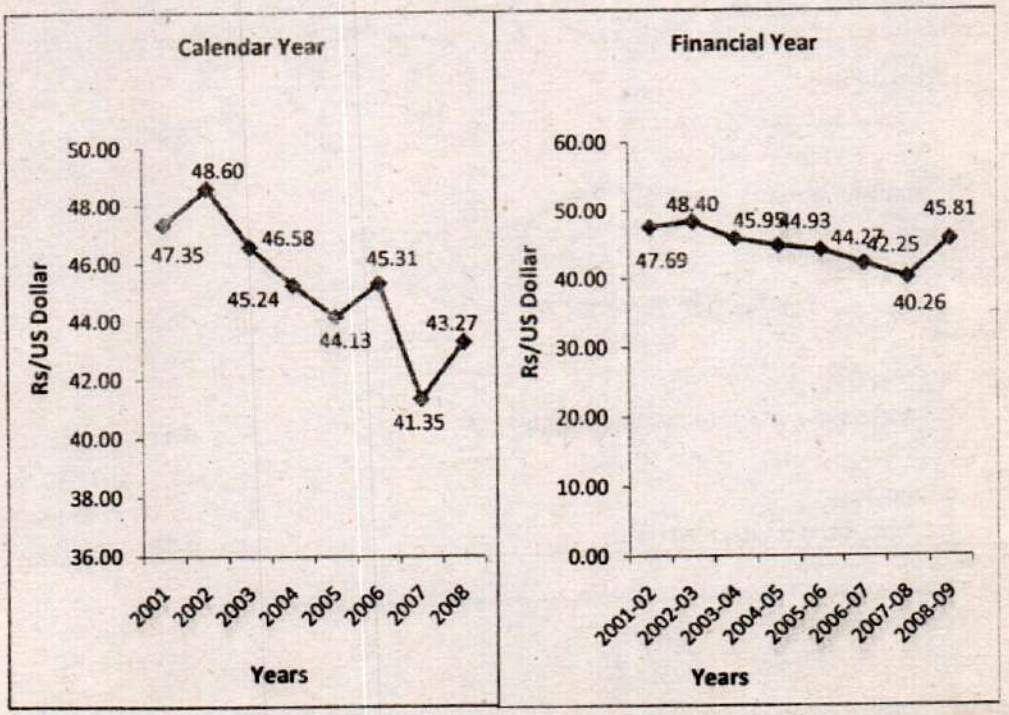
Source:BP Statistical Review of World Energy.

Exchange Rates

(Rs. Per U.S. Dollar)

Year	Calendar Years					Financial Years	
	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Average for the year	Year	Average for the year
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
2001	48.56	47.57	47.30	47.98	47.35	2001-02	47.69
2002	48.58	48.96	48.60	48.26	48.60	2002-03	48.40
2003	47.77	47.06	46.00	45.50	46.58	2003-04	45.95
2004	44.65	45.30	46.32	44.68	45.24	2004-05	44.93
2005	43.69	43.62	43.84	45.37	44.13	2005-06	44.27
2006	44.4	45.47	46.37	44.99	45.31	2006-07	42.25
2007	44.17	41.23	40.12	39.46	41.35	2007-08	40.26
2008	39.82	41.72	42.78	48.76	43.27	2008-09	45.81

Source: http://www.rbi@nic.in & Economic Survey.



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