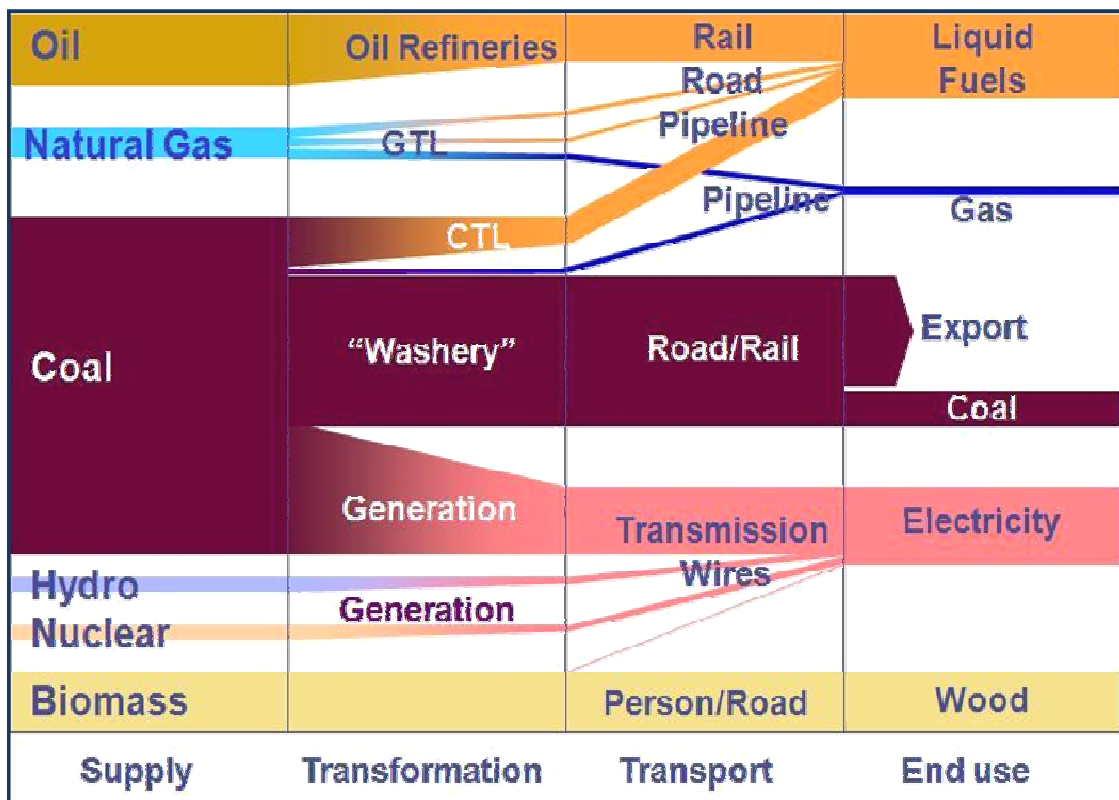


# SOUTH AFRICAN ENERGY

## Price Report

### 2010



**energy**

Department:  
Energy  
REPUBLIC OF SOUTH AFRICA

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# **ENERGY PRICE**

## **REPORT**

**2010**

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## FOREWORD

It gives me great pleasure to introduce the Energy Price Report 2010 for South Africa. The Energy Price Report is based upon information compiled within Government Departments, Oil and Gas Industries and State Owned Entities.

Some of the key challenges encountered during the production of the Energy Price Report include lack of accurate, reliable data and the timely provision thereof, which resulted in delays in publications.

The publication presents energy price data in a format which provides an overall picture of monthly and annual energy prices for the most common energy carriers used in South Africa. It covers price data and comparisons of different petroleum products, coal and electricity. The publication also includes Consumer Price Index (CPI), Production Price Index (PPI) and foreign exchange rates used in energy analysis for convenience when analysing price information.

Prices are also published on the DoE website: [www.energy.gov.za](http://www.energy.gov.za). The Department of Energy is working hard to reduce delays in the publishing of Energy Price Report and hopes that the publication will become a standard work of reference among energy professionals in South Africa and abroad. Comments are welcomed and can be addressed to the Directorate: Energy Information Management, Process Design and Publication.

Finally, I would like to thank and congratulate all the staff in the Directorate: Energy Information Management, Process Design and Publication for the hard and successful work that went into the compilation of this publication.

Ms N Magubane  
Director General  
Department of Energy

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## **ABBREVIATION**

BFP	–	Basic fuel price
CPI	–	Consumer Price index
CIF	–	Cost, Insurance and Freight
COC	–	Customer Own Collection
DME	–	Department of Minerals and Energy
DoE	–	Department of Energy
HFO	–	Heavy furnace oil
IBLC	–	In-Bond-Landed-Cost
LPG	–	Liquid petroleum gas
LFIF	–	Liquid Fuels Industry Force
NERSA	–	National Energy Regulator of South Africa
PPI	–	Producer Price Index
RTC	–	Rail Tank Car
RAF	–	Road Accident Fund
SAPIA	–	South African Petroleum Industry Association
StatsSA	–	Statistics South Africa
SSLM	–	Self-adjusting Slate Levy Mechanism
ULP	–	Unleaded Petrol
LRP	–	Lead Replacement Petrol

## 1 INTRODUCTION

The purpose of the Energy Price Report is to provide historical prices for the major energy carriers related to the South African economy. Energy prices are significant factors in the cost of providing services such as transport or electrify. The intended use of the data is for economic analyses needed for planning and policy evaluation.

The report includes monthly and annual prices depending on the energy carrier considered and the frequency of price changes. Prices for electricity are generally reviewed once a year. Prices for petroleum products are modified once a month due to the fluctuations in the international oil price and exchange rates.

The report consists of the following sections:

- Petroleum: which covers crude oil, natural gas and prices of petroleum products (petrol, diesel, illuminating paraffin, liquid petroleum gas, and heavy furnace oil). Where the methodology for price calculations has changed, which also results in different terminologies and abbreviations, subsections have been used to separate the datasets.
- Coal: covering the prices of locally used and exported coal.
- Electricity: Contains the Eskom electricity prices.
- Price comparisons – which compares the prices of various fuels based on their energy content.

Each section contains a brief introduction followed by a table of information and a figure graphing the prices over time. Wherever possible a brief analysis of likely explanations for prices changes is provided.

The report also includes Consumer Price Index (CPI), Production Price Index (PPI) and foreign exchange rates used in energy analysis for convenience when analysing price information.

## 2 PETROLEUM

Prices for crude oil and petroleum products are presented in section 1. Brief descriptions of historical prices are provided and some of the events which led to the price fluctuations. The components which make up the final retail price are also provided.

### 2.1 Crude oil

The annual nominal and real prices of crude oil between 1981 and 2010 are presented in Table 2.1; the first column is the nominal price whereas the second column is the real price of crude oil using 2008 as the base year.

**Table 2.1: Annual crude oil prices - US\$/bbl**

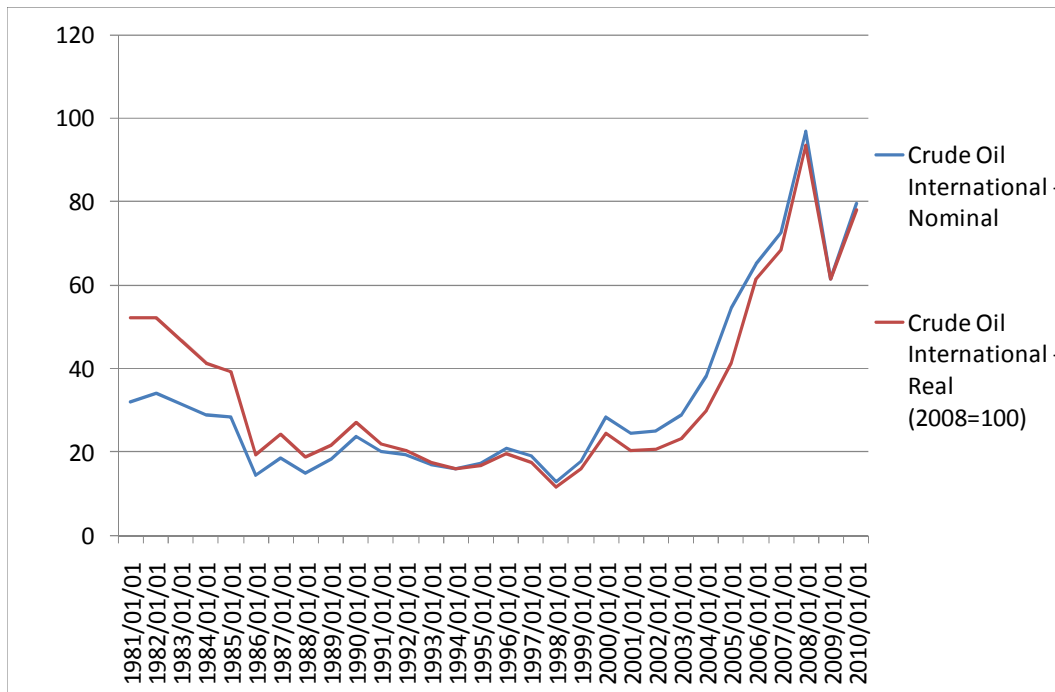
Date	Crude Oil International		Date	Crude Oil International	
	Nominal	Real (2008=100)		Nominal	Real (2008=100)
1981/01/01	32.00	52.09	1996/01/01	20.81	19.66
1982/01/01	34.00	52.17	1997/01/01	19.10	17.64
1983/01/01	31.50	46.83	1998/01/01	12.74	11.58
1984/01/01	29.00	41.34	1999/01/01	17.87	15.90
1985/01/01	28.50	39.26	2000/01/01	28.45	24.48
1986/01/01	14.38	19.41	2001/01/01	24.46	20.47
1987/01/01	18.43	24.25	2002/01/01	24.98	20.58
1988/01/01	14.96	18.73	2003/01/01	28.84	23.23
1989/01/01	18.20	21.65	2004/01/01	38.21	29.98
1990/01/01	23.81	27.02	2005/01/01	54.39	41.28
1991/01/01	20.05	21.83	2006/01/01	65.10	61.50
1992/01/01	19.37	20.47	2007/01/01	72.50	68.40
1993/01/01	17.07	17.52	2008/01/01	97.00	93.60
1994/01/01	15.98	15.98	2009/01/01	61.50	61.60
1995/01/01	17.18	16.71	2010/01/01	79.50	78.00

---

**Explanatory Notes:**

1. Prices are in US\$.
  2. 1945 - 1985 Arabian Light posted at Ras Tanura.
  3. 1986 - 2001 Brent Monthly Average Price. Source: Central Energy Fund.
  4. 2002 - Four Month Average - Source: Central Energy Fund.
  5. 2003 to date – Data Source: SAPIA. For twelve Month Average (SAPIA Annual Report)
-

The international annual nominal and real crude oil prices between 1981 and 2010 are illustrated in Figure 2.1. The graph shows a decline in the nominal crude oil price from 1981 which was apparently in response to a fall in demand in the wake of a world economic recession (Panikar P. G. K., 1991). After 1983 the price of crude oil declined drastically because of the reduced demand and over production which caused OPEC to lose its unity. This all time decline in crude oil price recorded a 55 % drop over the 5 year period from 1981 to 1986. From 1986 onwards the nominal crude oil prices fluctuated moderately until 1990 during the Iraq-Kuwait war where Iraq accused Kuwait of stealing Iraqi oil through slant drilling (Verleger, 1990). The price of crude oil increased in 2001 and gradually dropped until 2003. From 2003 the graph shows a continuous price increase year after year until it reaches an all time high in 2008 recording a price increase of over 200%. This price hike was related to the oil price world wide. The prices declined slightly from 2008 to 2009 and increase again in 2010.



**Figure 2.1: Annual crude oil prices - US\$/bbl**

The monthly prices of Crude oil in Dubai, Crude oil in South Africa and the In Bond Landed Cost (IBLC) between 1985 and 2010 are shown in Table 2.2. These prices are all in the same unit of South African cents per litre.

**Table 2.2: Monthly crude oil, mogas refinery FOB and IBLC prices - c/l**

Date	Crude Oil Dubai Singapore Refineries F.O.B.	Petrol	Petrol IBLC
1985/01/01	37.18	47.67	
1985/02/01	33.61	43.37	
1985/03/01	33.96	44.19	
1985/04/01	32.47	42.91	
1985/05/01	32.20	44.18	
1985/06/01	31.62	43.84	
1985/07/01	31.52	43.26	
1985/08/01	38.72	51.15	
1985/09/01	41.42	55.45	
1985/10/01	43.73	57.61	
1985/11/01	44.97	57.76	
1985/12/01	44.16	59.50	
1986/01/01	34.15	52.23	
1986/02/01	19.63	41.01	
1986/03/01	14.51	28.71	
1986/04/01	13.34	25.87	
1986/05/01	15.57	28.02	
1986/06/01	16.25	32.51	
1986/07/01	12.56	31.38	
1986/08/01	19.35	31.32	
1986/09/01	19.10	29.53	
1986/10/01	18.57	29.30	
1986/11/01	19.27	29.34	
1986/12/01	20.83	29.89	
1987/01/01	22.57	28.41	26.74
1987/02/01	22.01	28.93	24.74
1987/03/01	22.03	28.60	24.74
1987/04/01	21.49	27.98	24.74
1987/05/01	21.43	28.06	24.74
1987/06/01	21.89	28.92	24.74
1987/07/01	23.00	29.82	24.54
1987/08/01	22.59	30.03	24.54
1987/09/01	21.74	28.59	24.54
1987/10/01	21.91	28.64	24.54
1987/11/01	20.54	27.60	24.54
1987/12/01	18.87	26.62	24.54
1988/01/01	19.25	26.53	24.34

Date	Crude Oil Dubai Singapore Refineries	Petrol	Petrol IBLC
	F.O.B.		
1988/02/01	19.35	26.82	24.34
1988/03/01	17.97	27.91	24.34
1988/04/01	20.10	28.47	24.34
1988/05/01	20.69	30.95	24.34
1988/06/01	19.55	31.29	24.34
1988/07/01	19.60	29.60	24.34
1988/08/01	20.24	29.37	24.34
1988/09/01	17.79	29.29	36.04
1988/10/01	16.02	28.00	36.04
1988/11/01	15.83	27.62	36.04
1988/12/01	18.55	29.33	36.04
1989/01/01	21.40	32.06	33.24
1989/02/01	22.60	33.50	33.24
1989/03/01	25.56	36.03	33.24
1989/04/01	27.11	40.28	39.94
1989/05/01	26.33	47.22	39.94
1989/06/01	26.99	47.51	39.94
1989/07/01	26.06	44.29	45.94
1989/08/01	25.65	41.17	45.94
1989/09/01	27.33	42.17	45.94
1989/10/01	27.14	40.44	45.94
1989/11/01	26.61	39.67	45.94
1989/12/01	27.73	38.77	44.44
1990/01/01	28.07	39.80	44.14
1990/02/01	26.71	40.84	44.14
1990/03/01	25.90	42.70	44.14
1990/04/01	23.79	43.91	44.14
1990/05/01	24.16	42.01	44.14
1990/06/01	22.17	38.79	44.14
1990/07/01	25.27	39.39	44.34
1990/08/01	40.56	58.40	44.34
1990/09/01	49.16	74.12	54.34
1990/10/01	50.45	73.53	84.34
1990/11/01	44.27	58.19	69.24
1990/12/01	36.83	54.13	59.24
1991/01/01	31.27	53.92	58.74
1991/02/01	22.86	49.76	58.74
1991/03/01	24.67	41.64	48.74
1991/04/01	26.49	42.81	48.74
1991/05/01	28.01	46.57	48.74
1991/06/01	27.76	52.28	48.74
1991/07/01	29.44	49.64	48.74
1991/08/01	30.03	48.83	49.74

Date	Crude Oil Dubai Singapore Refineries	Petrol	Petrol IBLC
	F.O.B.		
1991/09/01	31.86	48.32	49.74
1991/10/01	33.65	48.02	49.74
1991/11/01	32.24	47.39	49.74
1991/12/01	26.47	45.85	48.24
1992/01/01	26.72	43.75	47.84
1992/02/01	27.89	43.52	47.84
1992/03/01	28.63	42.73	45.84
1992/04/01	30.23	42.76	43.84
1992/05/01	31.61	44.87	43.84
1992/06/01	33.58	48.87	43.84
1992/07/01	32.01	48.29	41.74
1992/08/01	31.02	47.96	41.74
1992/09/01	32.39	46.40	41.74
1992/10/01	32.93	48.50	44.74
1992/11/01	32.18	49.66	44.74
1992/12/01	30.68	45.94	44.74
1993/01/01	29.36	46.94	44.54
1993/02/01	31.44	48.86	44.54
1993/03/01	32.53	48.33	44.54
1993/04/01	32.45	50.15	50.54
1993/05/01	31.67	51.38	50.54
1993/06/01	31.78	52.19	50.54
1993/07/01	29.93	50.60	50.54
1993/08/01	31.22	49.44	50.54
1993/09/01	30.39	50.34	56.54
1993/10/01	31.53	50.95	54.54
1993/11/01	28.86	47.73	54.54
1993/12/01	25.84	41.75	52.54
1994/01/01	28.48	39.62	52.54
1994/02/01	27.73	41.19	43.54
1994/03/01	26.37	42.33	43.54
1994/04/01	31.27	45.37	43.54
1994/05/01	33.71	51.01	43.54
1994/06/01	35.85	51.54	56.14
1994/07/01	37.92	50.02	56.14
1994/08/01	35.74	51.43	56.14
1994/09/01	34.22	45.71	56.14
1994/10/01	34.18	44.85	50.14
1994/11/01	35.55	45.61	49.14
1994/12/01	34.59	42.25	50.14
1995/01/01	35.63	42.60	48.14
1995/02/01	37.23	46.34	46.14
1995/03/01	36.92	49.57	51.14

Date	Crude Oil Dubai	Petrol	Petrol IBLC
	Singapore Refineries F.O.B.		
1995/04/01	39.43	50.77	56.14
1995/05/01	39.71	52.23	58.14
1995/06/01	37.27	53.56	58.14
1995/07/01	34.37	52.93	58.14
1995/08/01	35.33	52.06	58.14
1995/09/01	35.73	52.44	57.04
1995/10/01	34.11	49.20	58.04
1995/11/01	35.97	48.38	55.04
1995/12/01	39.17	48.96	53.04
1996/01/01	37.81	47.06	52.04
1996/02/01	36.90	46.45	51.04
1996/03/01	41.46	50.90	51.04
1996/04/01	45.68	62.12	56.04
1996/05/01	46.24	73.13	70.04
1996/06/01	46.92	70.58	83.04
1996/07/01	48.84	65.99	82.04
1996/08/01	52.71	66.07	73.04
1996/09/01	57.41	64.77	70.04
1996/10/01	62.20	67.76	71.04
1996/11/01	60.95	74.73	74.04
1996/12/01	63.74	75.39	82.04
1997/01/01	61.99	76.25	85.04
1997/02/01	51.95	72.99	84.04
1997/03/01	50.14	74.98	80.04
1997/04/01	46.21	74.16	82.04
1997/05/01	51.88	68.41	83.04
1997/06/01	48.60	68.38	77.04
1997/07/01	49.39	67.32	74.04
1997/08/01	51.91	71.52	74.04
1997/09/01	52.67	72.01	79.04
1997/10/01	56.63	71.79	80.04
1997/11/01	55.87	73.43	79.04
1997/12/01	49.59	69.10	80.04
1998/01/01	41.41	66.22	76.04
1998/02/01	38.02	61.10	71.44
1998/03/01	35.56	58.56	66.44
1998/04/01	38.53	60.03	64.44
1998/05/01	40.57	63.91	65.44
1998/06/01	39.54	64.42	71.44
1998/07/01	47.35	75.43	72.44
1998/08/01	48.39	73.38	83.44
1998/09/01	50.20	65.76	84.44
1998/10/01	46.35	63.73	73.84

Date	Crude Oil Dubai	Petrol	Petrol IBLC
	Singapore Refineries F.O.B.		
1998/11/01	41.71	60.69	67.84
1998/12/01	37.20	55.50	65.84
1999/01/01	40.20	54.67	61.59
1999/02/01	38.36	55.50	63.15
1999/03/01	48.01	58.89	65.89
1999/04/01	57.19	73.86	80.84
1999/05/01	59.59	80.88	87.79
1999/06/01	59.05	81.70	88.78
1999/07/01	68.29	86.00	93.27
1999/08/01	74.54	97.86	105.36
1999/09/01	83.01	103.24	110.87
1999/10/01	81.78	103.68	111.11
1999/11/01	88.49	105.44	112.87
1999/12/01	90.78	107.61	114.87
2000/01/01	89.27	108.84	118.19
2000/02/01	97.46	123.94	134.01
2000/03/01	101.43	144.99	153.57
2000/04/01	91.47	131.99	140.37
2000/05/01	113.22	143.33	158.30
2000/06/01	118.00	155.41	167.30
2000/07/01	112.39	161.43	173.92
2000/08/01	117.22	169.38	183.12
2000/09/01	133.25	174.85	188.45
2000/10/01	141.14	172.26	189.23
2000/11/01	144.91	172.94	186.39
2000/12/01	103.50	163.00	174.01
2001/01/01	114.70	151.42	174.52
2001/02/01	122.13	158.15	178.65
2001/03/01	114.86	161.00	183.19
2001/04/01	122.15	166.91	193.02
2001/05/01	127.30	187.68	205.63
2001/06/01	129.23	178.72	193.62
2001/07/01	120.08	166.13	183.21
2001/08/01	127.40	164.48	182.59
2001/09/01	130.20	176.97	195.44
2001/10/01	115.70	176.37	189.06
2001/11/01	107.95	155.47	169.73
2001/12/01	131.39	167.03	190.37
2002/01/01	134.83	167.09	181.61
2002/02/01	137.30	170.50	188.20
2002/03/01	165.51	194.20	214.96
2002/04/01	170.39	220.72	236.48
2002/05/31	157.60	209.57	215.82

<b>Date</b>	<b>Crude Oil Dubai Singapore Refineries F.O.B.</b>	<b>Petrol</b>	<b>Petrol IBLC</b>
2002/06/28	152.49	197.00	211.65
2002/07/31	156.76	196.82	208.59
2002/08/30	167.71	199.48	217.79
2002/09/30	178.76	208.70	223.69
2002/10/31	170.96	210.96	222.28
2002/11/29	141.51	197.90	202.00
2002/12/31	145.00	175.91	188.59
2003/01/31	153.01	181.22	220.73
2003/02/28	156.75	200.94	220.73
2003/03/31	138.51	213.66	225.79
2003/04/30	113.67	138.94	162.80
2003/05/30	117.43	136.94	164.30
2003/06/30	126.77	155.60	183.25
2003/07/31	126.83	160.51	181.57
2003/08/29	128.59	170.54	189.38
2003/09/30	116.87	148.91	168.11
2003/10/31	119.45	148.28	167.96
2003/11/28	117.28	142.02	159.94
2003/12/31	115.17	147.11	163.86
2004/01/30	125.66	175.48	195.03
2004/02/27	121.81	164.58	185.81
2004/03/31	128.68	175.94	199.44
2004/04/30	130.60	179.88	206.66
2004/05/31	148.16	214.84	241.20
2004/06/30	135.28	180.95	200.96
2004/07/30	133.57	182.89	202.68
2004/08/31	156.56	202.31	224.53
2004/09/30	146.38	202.79	224.16
2004/10/29	150.83	218.31	237.98
2004/11/30	132.81	192.26	211.63
2004/12/31	123.31	151.96	172.56
2005/01/01	142.37	174.24	199.91
2005/02/01	150.56	193.20	218.47
2005/03/01	173.28	216.07	259.67
2005/04/01	182.63	232.56	289.27
2005/05/01	180.78	214.37	266.23
2005/06/01	216.85	252.44	244.23
2005/07/01	222.73	269.76	273.23
2005/08/01	230.14	298.15	300.23
2005/09/01	226.08	313.45	326.23
2005/10/01	223.19	279.37	338.23
2005/11/01	215.14	244.69	307.23
2005/12/01	212.77	239.51	272.23

Date	Crude Oil Dubai	Petrol	Petrol IBLC
	Singapore Refineries F.O.B.		
2006/01/01	234.34	283.01	283.01
2006/02/01	222.60	272.01	272.01
2006/03/01	223.24	297.41	297.41
2006/04/01	252.53	336.41	336.41
2006/05/01	249.14	372.41	372.41
2006/06/01	260.14	397.41	397.41
2006/07/01	304.24	428.41	428.41
2006/08/01	308.61	392.41	392.41
2006/09/01	224.69	328.41	328.41
2006/10/01	263.89	318.41	318.41
2006/11/01	274.76	311.41	311.41
2006/12/01	269.98	319.41	319.41
2007/01/01	229.73	319.41	396.41
2007/02/01	252.59	296.41	319.31
2007/03/01	266.27	319.31	377.31
2007/04/01	297.41	377.31	411.31
2007/05/01	291.41	411.31	434.31
2007/06/01	291.32	434.31	426.11
2007/07/01	314.69	426.11	411.11
2007/08/01	295.99	411.11	389.41
2007/09/01	334.23	389.41	399.41
2007/10/01	347.31	399.41	402.41
2007/11/01	371.21	402.41	445.41
2007/12/01	362.24	445.41	445.41
2008/01/01	384.31	445.41	462.41
2008/02/01	432.65	462.41	523.41
2008/03/01	486.13	523.41	578.41
2008/04/01	507.13	578.41	609.41
2008/05/01	573.34	609.41	654.41
2008/06/01	636.89	654.41	730.01
2008/07/01	631.24	730.01	692.41
2008/08/01	462.16	692.41	598.41
2008/09/01	485.67	598.41	570.81
2008/10/01	410.23	570.81	525.81
2008/11/01	317.09	525.81	364.81
2008/12/01	253.49	364.81	462.41
2009/01/01	271.56		274.76
2009/02/01	271.41		335.76
2009/03/01	286.78		380.76
2009/04/01	284.90		371.26
2009/05/01	302.96		368.26
2009/06/01	351.66		383.16
2009/07/01	324.26		423.16

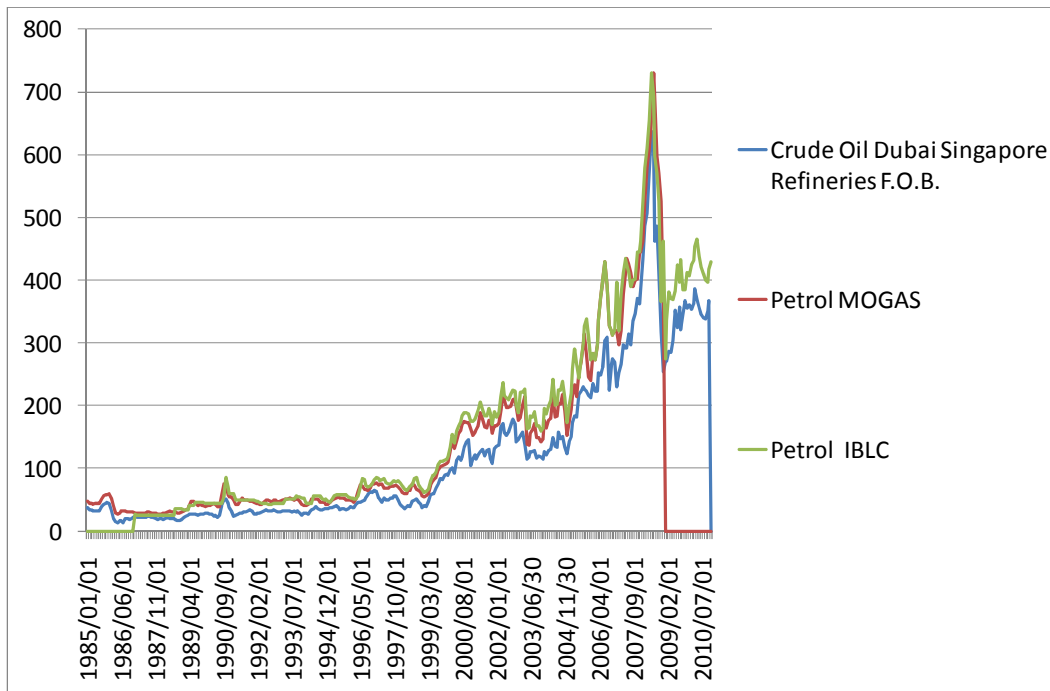
Date	Crude Oil Dubai Singapore Refineries	Petrol	Petrol IBLC
	F.O.B.		
2009/08/01	356.84		396.76
2009/09/01	320.54		432.76
2009/10/01	344.73		385.26
2009/11/01	367.63		385.26
2009/12/01	355.38		412.26
2010/01/01	359.69		406.26
2010/02/01	354.28		424.26
2010/03/01	361.30		430.56
2010/04/01	386.30		453.06
2010/05/01	368.83		465.06
2010/06/01	356.06		438.06
2010/07/01	344.27		420.06
2010/08/01	340.23		410.06
2010/09/01	337.49		400.06
2010/10/01	349.22		396.56
2010/11/01	367.04		416.56
2010/12/01			429.56

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**Explanatory Notes:**

1. This table gives the price of Dubai crude (First Line Average); Mogas FOB and the South African In-bond-landed cost (IBLC) for Mogas in South African cents per litre.
  2. All prices are nominal values.
  3. Crude Oil Dubai Singapore Refineries F.O.B. is obtained from SAPIA
  4. Mogas (SA c/l) used to be obtained from CEF but is no longer provided due to CEF subscription agreement with their data provider
-

The historical prices of crude oil in Dubai, crude oil in South Africa and the IBLC from 1985 to 2008 are shown in Figure 2.2. During 1985 the nominal prices of crude oil in Dubai, Crude oil in South Africa and the IBLC crude oil were all related to the world crude oil prices. These prices started to vary around 1989 when IBLC became more expensive than crude oil in South Africa and Dubai crude oil. There was a sudden but brief increase in the prices of Dubai crude oil, crude oil delivered to South Africa and the IBLC crude oil in 1990. This sudden increase occurred during the Gulf war. Since then the prices dropped slightly and have been increasing at a consistent rate. The prices increased significantly again in 2001 which was more likely due to the effect of September 11 attacks in New York.



**Figure 2.2: Monthly crude oil, mogas refinery FOB and IBLC prices - cents per litre (c/l)**

## **2.2 Petroleum products**

The petroleum products section covers the calculation of the basic fuel price, petrol prices, diesel prices, illuminating paraffin prices, power paraffin prices, liquid petroleum gas price and heavy furnace oil price. The section covers prices from as early as 1981 to 2010; however in that period there was a change in petrol grades labels and the different petrol calculation methodologies. All those changes in either the calculation methodology or the grade labels are captured in different tables. Table 1.1 present petrol retail prices between 1981 and 2005, from 2005 there were new grade labels which are captured in Table 1.4 with prices between 2006 and 2010. There is individual price components between 1998 and 2003 for mogas 93 based on in bond landed cost (IBLC) in Table 1.5 and individual price components between 2003 and 2010 for Unleaded Petrol (ULP) 93 based on the Basic Fuel Price in Table 1.6.

### **2.2.1 Calculation of the basic fuel price**

The Basic Fuel Price (BFP) is conceptually an import parity pricing formula and it is intended to establish a realistic estimate of what it would cost to import substantial volumes of refined fuel. The BFP formula replaced the in bond landed cost (IBLC) with effect from 2 April 2003.

The In Bond Landed Cost (IBLC) was first introduced in the 1950's with the establishment of the first refinery in South Africa and was revised in 1995 when a market spot price component was introduced. An investigation by the DME and the oil industry decided that the old formula was outdated because of changes in global markets, and that it was more appropriate to use "spot" prices rather than refinery "posted" prices.

The most important difference between IBLC and BFP is that BFP is based on the spot prices quoted daily in international markets whereas the IBLC was based mainly on certain refinery gate postings which to a large extent have fallen into disuse and are no longer reflective of actual market prices (SAPIA, 2011).

The implementation of Working Rules to administer the price of regulated fuel, originated from recommendations of the Liquid Fuels Industry Task Force (LFITF) and Cabinet approval thereof on 28 September 1994, and are updated to

accommodate the termination of the provisions for the addition/subtraction of 1.0 c/l due to the implementation of a Self-adjusting Slate Levy Mechanism (SSLM) and to accommodate the discontinuation of 0.2% sulphur diesel grade currently published by Platts, a division of the McGraw-Hill Companies (NYSE-MHP) with effect from 1 January 2009 (DME, 2008).

Petrol 95 Octane Unleaded Petrol 93 Unleaded, Diesel 0.05% Sulphur, Diesel 0.005% Sulphur and Illuminating Paraffin are the products covered by the calculation of the basic fuel price. The final fuel price components is the combination of the averaged Cost Insurance Freight (FOB spot prices & spot premiums; plus freight, including demurrage allowances and insurance); plus ocean loss allowance; plus cargo dues (landed costs for imports at South African ports); plus coastal storage cost; plus stock financing cost.

For more information on the basic fuel price determination consult the department of energy website, under energy sources>>>petroleum>>>petrol price document>>>working rules to administer the basic fuel price methodology.

## 2.2.2 Petrol

Retail prices for various grades of petrol sold in South Africa are summarised in this section. Table 2.3 present the data before the grades labels changed and Table 2.4 presents the data after the grades labels changed. Retail prices of mogas 93, mogas 97/98 and petrol mogas 87 between 1981 and 2005 are presented in Table 2.3. Mogas is an abbreviation for motor gas and is an older term used for petrol, particularly in the United States. It is used here to differentiate historically available petrol grades from newer petrol specifications.

**Table 2.3: Monthly retail petrol prices - cents per litre (c/l)**

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
1981/04/01	50.60	54.91	51.30	54.30			
1981/07/06	56.60	61.00	57.40	60.40			
1982/03/01	56.60	61.00	57.40	58.00			
1982/04/01	59.40	64.60	60.10	64.00			
1982/09/01	59.90	65.20	60.70	64.60			
1983/02/13	58.30	63.60	59.10	63.00			
1983/08/22	54.30	59.60	55.70	59.00			
1984/02/01	54.80	60.20	56.20	59.50			
1984/04/01	54.80	61.80	56.20	61.10			
1984/07/01	56.40	63.50	57.80	62.90			
1985/01/24	81.40	88.60	84.90	86.30			
1985/03/25	82.90	90.20	86.40	87.80			
1985/04/01	82.90	90.10	86.40	87.70			
1985/07/15	82.90	90.10	86.40	84.70			
1985/09/09	87.40	94.60	90.90	92.20			
1985/11/11	94.00	100.00	98.00	98.00			

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
1986/04/14	74.00	83.00	83.00	80.00			
1987/02/18	74.00	83.00	83.00	80.00			
1987/07/01	74.00	82.00	79.00	79.00			
1988/09/01	87.00	95.00	92.00	91.00			
1989/01/16	96.00	105.00	101.00	101.00			
1989/04/15	103.00	112.00	106.00	109.00			
1989/07/15	109.00	118.00	112.00	115.00			
1990/09/04	119.00	128.00	123.00	125.00			
1990/10/20	151.00	160.00	155.00	158.00			
1990/11/12	136.00	145.00	140.00	143.00			
1990/12/21	126.00	135.00	130.00	133.00			
1991/03/25	121.00	130.00	125.00	128.00			
1991/08/26	134.00	143.00	138.00	141.00			
1992/03/21	142.00	152.00	146.00	150.00			
1992/10/10	149.00	159.00	153.00	157.00			
1993/04/02	164.00	175.00	168.00	173.00			
1993/09/15	171.00	182.00	175.00	180.00			
1993/10/30	169.00	180.00	173.00	178.00			
1993/12/17	167.00	178.00	171.00	176.00			
1994/02/17	164.00	175.00	168.00	173.00			
1994/06/18	173.00	183.00	177.00	181.00			
1994/10/05	167.00	177.00	171.00	175.00			
1994/11/02	166.00	176.00	170.00	174.00			
1994/12/06	167.00	177.00	171.00	175.00			
1995/01/04	165.00	175.00	169.00	173.00			
1995/02/01	163.00	173.00	167.00	171.00			
1995/03/01	168.00	178.00	172.00	176.00			

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
1995/04/05	174.00	184.00	178.00	182.00			
1995/05/03	177.00	187.00	181.00	185.00			
1995/07/05	178.00	188.00	182.00	186.00			
1995/08/02	178.00	188.00	182.00	186.00			
1995/09/06	178.00	188.00	182.00	186.00			
1995/10/04	180.00	190.00	184.00	188.00			
1995/11/01	177.00	187.00	181.00	185.00			
1995/12/06	176.00	186.00	180.00	184.00			
1996/01/03	175.00	185.00	179.00	183.00			
1996/02/07	174.00	184.00	178.00	182.00	174.00	180.00	
1996/03/06	174.00	184.00	178.00	182.00	174.00	180.00	
1996/04/03	182.00	192.00	186.00	190.00	182.00	188.00	
1996/05/01	196.00	206.00	200.00	204.00	192.00	202.00	
1996/06/06	209.00	219.00	213.00	217.00	209.00	215.00	
1996/07/03	208.00	218.00	212.00		208.00	214.00	
1996/08/04	199.00	209.00	203.00		199.00	205.00	
1996/08/07	202.00	212.00	206.00		202.00	208.00	
1996/10/02	200.00	210.00	204.00		200.00	206.00	
1996/11/06	203.00	213.00	207.00		203.00	209.00	
1996/12/04	211.00	221.00	215.00		211.00	217.00	
1997/01/01	214.00	224.00	218.00		214.00	220.00	
1997/02/05	213.00	223.00	217.00		213.00	219.00	
1997/03/05	209.00	219.00	213.00		209.00	215.00	
1997/04/02	211.00	221.00	215.00		211.00	217.00	
1997/05/07	212.00	222.00	216.00		212.00	218.00	
1997/06/04	206.00	217.00	210.00		206.00	213.00	
1997/07/02	203.00	214.00	207.00		203.00	210.00	

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
1997/08/06	203.00	214.00	207.00		203.00	210.00	
1997/09/03	208.00	219.00	212.00		208.00	215.00	
1997/10/01	209.00	220.00	213.00		209.00	216.00	
1997/11/05	214.00	225.00	218.00		214.00	221.00	
1997/12/03	215.00	226.00	219.00		215.00	222.00	
1998/01/07	211.00	222.00	215.00		211.00	218.00	
1998/02/04	211.00	222.00	215.00		211.00	218.00	
1998/03/04	206.00	217.00	210.00		206.00	213.00	
1998/04/01	214.00	225.00	218.00		214.00	221.00	
1998/05/06	215.00	226.00	219.00		215.00	222.00	
1998/06/03	221.00	232.00	225.00		221.00	228.00	
1998/07/01	222.00	233.00	226.00		222.00	229.00	
1998/08/05	233.00	244.00	237.00		233.00	240.00	
1998/09/02	234.00	245.00	238.00		234.00	241.00	
1998/10/07	231.00	242.00	235.00		231.00	238.00	
1998/11/04	225.00	236.00	229.00		225.00	232.00	
1998/12/02	223.00	234.00	227.00		223.00	230.00	
1999/01/06	219.00	230.00	223.00		219.00	226.00	
1999/02/03	218.00	229.00	222.00		218.00	225.00	
1999/03/03	220.00	231.00	224.00		220.00	227.00	
1999/04/07	227.00	238.00	231.00		227.00	234.00	
1999/05/05	245.00	256.00	249.00		245.00	252.00	
1999/06/02	257.00	268.00	261.00		257.00	264.00	
1999/07/07	257.00	268.00	261.00		257.00	264.00	
1999/08/04	258.00	269.00	262.00		258.00	265.00	
1999/09/01	271.00	282.00	275.00		271.00	278.00	
1999/10/06	279.00	290.00	283.00		279.00	286.00	

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
1999/11/03	280.00	291.00	284.00		280.00	287.00	
1999/12/01	279.00	290.00	283.00		279.00	286.00	
2000/01/05	281.00	292.00	285.00		281.00	288.00	
2000/02/02	275.00	286.00	279.00		275.00	282.00	
2000/03/01	284.00	295.00	288.00		284.00	291.00	
2000/04/05	311.00	322.00	315.00		311.00	318.00	
2000/05/03	312.00	323.00	316.00		312.00	323.00	
2000/06/07	320.00	331.00	324.00		320.00	331.00	
2000/07/05	340.00	351.00	344.00		340.00	351.00	
2000/08/02	349.00	360.00	353.00		349.00	360.00	
2000/09/06	355.00	366.00	359.00		355.00	366.00	
2000/10/04	361.00	372.00	365.00		361.00	372.00	
2000/11/01	363.00	374.00	367.00		363.00	374.00	
2000/12/06	361.00	372.00	365.00		361.00	372.00	
2001/01/03	351.00	362.00	355.00		351.00	362.00	
2001/02/07	338.00	349.00	342.00		338.00	349.00	
2001/03/07	348.00	359.00	352.00		348.00	359.00	
2001/04/04	366.00	377.00	370.00		366.00	377.00	
2001/05/02	376.00	387.00	380.00		376.00	387.00	
2001/06/06	390.00	401.00	394.00		390.00	401.00	
2001/07/04	385.00	396.00	389.00		385.00	396.00	
2001/08/01	359.00	370.00	363.00		359.00	370.00	
2001/09/05	352.00	363.00	356.00		352.00	363.00	
2001/10/03	364.00	375.00	368.00		364.00	375.00	
2001/11/07	368.00	379.00	372.00		368.00	379.00	
2001/12/05	347.00	358.00	351.00		347.00	358.00	
2002/01/02	355.00	366.00	359.00		355.00	366.00	425.00

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
2002/02/06	361.00	372.00	365.00		361.00	372.00	431.00
2002/03/06	367.00	378.00	371.00		367.00	378.00	437.00
2002/04/03	392.00	403.00	396.00		392.00	403.00	462.00
2002/05/01	421.00	432.00	425.00		421.00	432.00	491.00
2002/06/05	408.00	419.00	412.00		408.00	419.00	478.00
2002/07/03	389.00	400.00	393.00		389.00	400.00	459.00
2002/08/07	389.00	400.00	393.00		389.00	400.00	459.00
2002/09/04	398.00	409.00	402.00		398.00	409.00	404.00
2002/10/02	410.00	421.00	414.00		410.00	421.00	416.00
2002/11/06	415.00	426.00	419.00		415.00	425.00	417.00
2002/12/04	399.00	410.00	403.00		399.00	409.00	401.00
2003/01/01	381.00	392.00	385.00		381.00	392.00	383.00
2003/02/05	381.00	392.00	385.00		381.00	392.00	383.00
2003/03/05	411.00	422.00	415.00		411.00	422.00	413.00
2003/04/02	414.00	426.00	420.00		417.00	426.00	421.00
2003/05/07	376.00	388.00	382.00		379.00	388.00	383.00
2003/06/04	349.00	361.00	355.00		352.00	361.00	356.00
2003/07/02	370.00	382.00	376.00		372.00	382.00	376.00
2003/08/06	388.00	400.00	394.00		390.00	400.00	394.00
2003/09/03	394.00	406.00	400.00		393.00	406.00	400.00
2003/10/01	372.00	384.00	378.00		372.00	384.00	379.00
2003/11/05	370.00	382.00	376.00		370.00	382.00	377.00
2003/12/03	370.00	382.00	376.00		370.00	382.00	377.00
2004/01/07	366.00	378.00	372.00		369.00	378.00	374.00
2004/02/04	396.00	408.00	402.00		399.00	408.00	404.00
2004/03/03	405.00	417.00	411.00		408.00	417.00	413.00
2004/04/07	426.00	439.00	432.00		429.00	439.00	432.00

Date	Petrol Mogas 93		Petrol Mogas 97/98	Petrol Mogas 87	Petrol (ULP) 95	Petrol (ULP) 91/93	Petrol (ULP) 97
	Coast	Reef	Coast	Reef	Coast	Reef	Coast
2004/05/05	428.00	441.00	434.00		431.00	441.00	434.00
2004/06/02	458.00	471.00	464.00		461.00	471.00	464.00
2004/07/07	441.00	454.00	448.00		445.00	454.00	454.00
2004/08/04	418.00	431.00	425.00		422.00	431.00	431.00
2004/09/01	441.00	454.00	448.00		445.00	454.00	454.00
2004/10/06	455.00	468.00	460.00		457.00	468.00	468.00
2004/11/03	472.00	485.00	477.00		474.00	485.00	485.00
2004/12/01	453.00	466.00	458.00		455.00	466.00	466.00
2005/01/05	409.00	422.00	413.00		410.00	422.00	422.00
2005/02/02	407.00	420.00	411.00		408.00	420.00	420.00
2005/03/02	449.00	462.00	453.00		450.00	462.00	462.00
2005/04/06	489.00	502.00	493.00		490.00	502.00	502.00
2005/05/04	509.00	522.00	513.00		510.00	522.00	522.00
2005/06/01	493.00	506.00	497.00		494.00	506.00	506.00
2005/07/06	522.00	535.00	529.00		526.00	535.00	535.00
2005/08/03	549.00	562.00	556.00		553.00	562.00	562.00
2005/09/07	578.00	591.00	585.00		582.00	591.00	591.00
2005/10/05	591.00	603.00	596.00		606.00	603.00	603.00
2005/11/02	560.00	572.00	565.00		575.00	572.00	572.00
2005/12/07	530.00	542.00	535.00		545.00	542.00	542.00

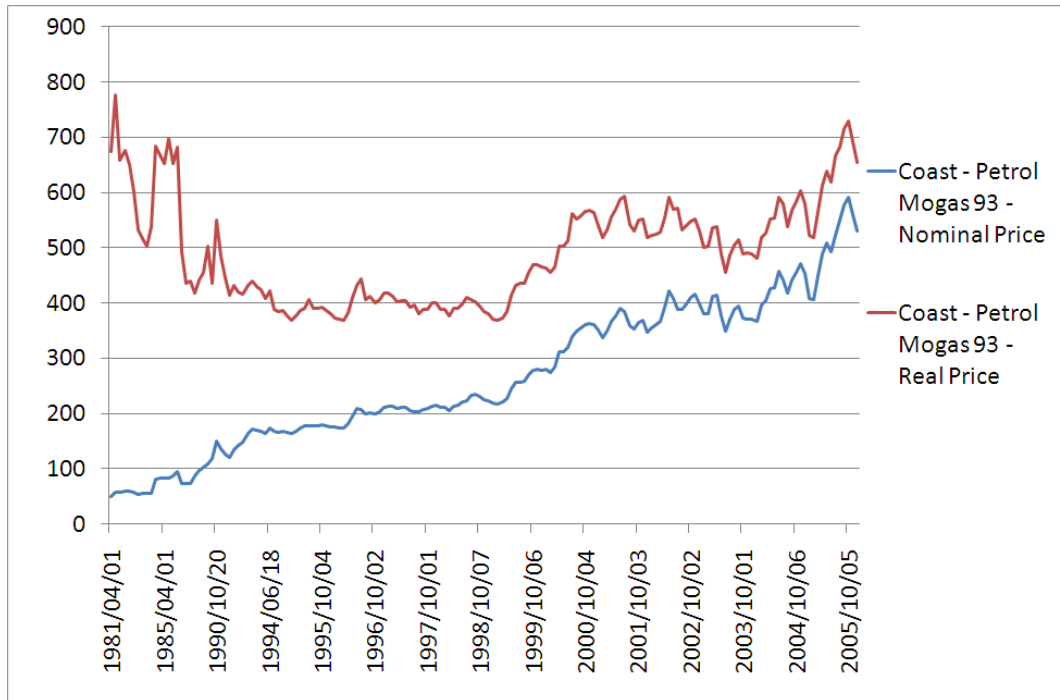
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**Explanatory Notes:**

1. ULP = Unleaded Petrol.
2. ULP 95 & ULP 91/93 were introduced in February 1996
3. Mogas 87 was discontinued from June 1996
4. ULP 97 was introduced in January 2002
5. On 1 January 1989 98 Octane changed to 97 Octane.

6. 87 Octane was discontinued in 1996 and replaced by ULP 91.
  7. As from 3 May 2000, 91 octane ULP was replaced by 93 octane ULP in the interior.
  8. Leaded and 93 octane unleaded will be the same.
  9. 93 Octane Leaded Petrol was terminated from 2006 and 93 ULP and LRP became available. 93 Octane ULP and LRP prices are the same. Leaded Octane grades were terminated and replaced by 93 Octane ULP & LRP and 95 ULP and LRP Octane.
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The nominal and real prices of mogas 93 from 1981 to 2005 are shown in Figure 2.3. South Africa uses imported crude oil to provide for just over 60% of its liquid fuel demand. The prices of petroleum products in the country are therefore sensitive to international events which impact on global energy supply. The prices of mogas 93 have been increasing fairly year after year since 1980 to 2005.



**Figure 2.3: Monthly retail petrol prices(mogas 93, nominal at coast, real prices for 2008 base year) - cents per litre (c/l)**

Prices for various grades of petrol sold in South Africa after the grades labels changed are summarised in Table 2.4. The prices include prices of petrol (ULP) 95, petrol (ULP) 91/93 and petrol (ULP) 97 from 2006 to 2010.

**Table 2.4: Monthly retail petrol prices - cents per litre (c/l)**

Date	Petrol (ULP) 93			Petrol (ULP) 95		
	Coast	Gauteng	Reef	Coast	Gauteng	Reef
2006/01/04	550.00		536.00	526.00		549.00
2006/02/01	539.00		550.00	540.00		563.00
2006/03/01	539.00		539.00	529.00		552.00
2006/04/05	610.00		559.00	549.00		573.00
2006/05/03	646.00		598.00	588.00		612.00
2006/06/07	671.00		634.00	624.00		648.00
2006/07/05	702.00		659.00	649.00		673.00
2006/08/02	702.00		690.00	680.00		704.00
2006/09/06	613.00		654.00	644.00		668.00
2006/10/04	592.00		604.00	594.00		618.00
2006/11/01	592.00		583.00	573.00		597.00
2006/12/06	585.00		576.00	566.00		590.00
2007/01/03	584.00		584.00	574.00		598.00
2007/02/07	561.00		561.00	551.00		575.00
2007/03/07	585.00		585.00	575.00		599.00
2007/04/04	654.00		677.00	643.00		643.00
2007/05/02	688.00		687.00	677.00		701.00
2007/06/06	711.00		710.00	700.00		724.00
2007/07/04	703.00		702.00	692.00		716.00
2007/08/01	688.00		687.00	677.00		701.00
2007/09/05	678.00		677.00	667.00		691.00
2007/10/03	687.00		687.00	677.00		701.00
2007/11/07	690.00		690.00	680.00		704.00
2007/12/05	733.00		733.00	723.00		747.00
2008/01/02	733.00		733.00	723.00		747.00
2008/02/06	750.00		750.00	740.00		764.00
2008/03/05	811.00		811.00	801.00		825.00
2008/04/02	878.00		877.00	867.00		891.00
2008/05/07	933.00		932.00	922.00		946.00
2008/06/04	983.00		982.00	972.00		996.00
2008/07/02	1060.00		1050.00	1040.00		1070.00
2008/08/06	1020.00		1030.00	1010.00		1040.00
2008/09/03	931.00		952.00	942.00		966.00
2008/10/01	941.00		927.00	917.00		941.00
2008/11/05	879.00		882.00	872.00		896.00
2008/12/03	718.00		721.00	711.00		735.00
2009/01/07		582.00		576.00	601.00	

Date	Petrol (ULP) 93			Petrol (ULP) 95		
	Coast	Gauteng	Reef	Coast	Gauteng	Reef
2009/02/04		643.00		637.00	662.00	
2009/03/04		688.00		682.00	707.00	
2009/04/01		724.00		713.00	738.00	
2009/05/06		721.00		710.00	735.00	
2009/06/03		736.00		727.00	750.00	
2009/07/01		773.00		767.00	790.00	
2009/08/05		752.00		746.00	769.00	
2009/09/02		788.00		782.00	805.00	
2009/10/07		749.00		742.00	765.00	
2009/11/04		749.00		742.00	765.00	
2009/12/02		776.00		769.00	792.00	
2010/01/06		767.00		763.00	786.00	
2010/02/03		785.00		781.00	804.00	
2010/03/03		791.00		787.00	810.00	
2010/04/07		840.00		835.00	858.00	
2010/05/05		854.00		848.00	872.00	
2010/06/02		827.00		821.00	845.00	
2010/07/07		812.00		803.00	827.00	
2010/08/04		802.00		793.00	817.00	
2010/09/01		792.00		783.00	807.00	
2010/10/06		796.00		788.00	812.00	
2010/11/03		816.00		808.00	832.00	
2010/12/01		829.00		821.00	845.00	

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**Explanatory Notes:**

1. ULP = Unleaded Petrol.
  2. ULP 95 & ULP 91/93 were introduced in February 1996
  3. As from 3 May 2000, 91 octane ULP will be replaced by 93 octane ULP in the interior. Leaded and 93 octane unleaded will be the same.
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The Individual price components for mogas 93 based on IBLC from 1998 to 2003 are shown in Table 2.5. These include (In bond landed cost (IBLC), fuel tax, equalisation fund, transport costs, wholesale margin, custom and excise duty, road accident fund levy, storage, handling & delivery costs and retail margin).

**Table 2.5: Monthly petrol prices - individual components mogas 93 - Coast price - cents per litre (c/l)**

Date	IBLC	Fuel Tax	Customs & excise duty	Equalisation Fund	RAF levy	Transport	Wholesale margin	Storage, handling & delivery costs	Retail Margin	Slate levy	Retail Price
<b>Petrol Mogas 93</b>											
1998/07/01	72.44	86.60	4.00	0.40	14.50	0.20	16.06	5.10	22.70		222.00
1998/08/05	83.44	86.60	4.00	0.40	14.50	0.20	16.06	5.10	22.70		233.00
1998/09/02	84.44	86.60	4.00	0.40	14.50	0.20	16.06	5.10	22.70		234.00
1998/10/07	73.84	86.60	4.00	8.00	14.50	0.20	16.06	5.10	22.70		231.00
1998/11/04	67.84	86.60	4.00	8.00	14.50	0.20	16.06	5.10	22.70		225.00
1998/12/02	65.84	86.60	4.00	8.00	14.50	0.20	16.06	5.10	22.70		223.00
1999/01/06	60.84	86.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		219.00
1999/02/03	59.84	86.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		218.00
1999/03/03	61.84	86.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		220.00
1999/04/07	64.84	90.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		227.00
1999/05/05	82.84	90.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		245.00
1999/06/02	94.84	90.60	4.00	8.00	14.50	0.20	17.06	5.10	22.70		257.00
1999/07/07	93.04	90.60	4.00	8.00	14.50	0.20	17.06	5.10	24.50		257.00
1999/08/04	94.04	90.60	4.00	8.00	14.50	0.20	17.06	5.10	24.50		258.00
1999/09/01	107.04	90.60	4.00	8.00	14.50	0.20	17.06	5.10	24.50		271.00
1999/10/06	115.04	90.60	4.00	8.00	14.50	0.20	17.06	5.10	24.50		279.00
1999/11/03	115.54	90.60	4.00	8.00	14.50	0.20	17.56	5.10	24.50		280.00
1999/12/01	114.54	90.60	4.00	8.00	14.50	0.20	17.56	5.10	24.50		279.00
2000/01/05	116.54	90.60	4.00	8.00	14.50	0.20	17.56	5.10	24.50		281.00

Date	IBLC	Fuel Tax	Customs & excise duty	Equalisation Fund	RAF levy	Transport	Wholesale margin	Storage, handling & delivery costs	Retail Margin	Slate levy	Retail Price
2000/02/02	118.54	90.60	4.00		14.50	0.20	17.56	5.10	24.50		275.00
2000/03/01	126.84	90.60	4.00		14.50	0.20	17.56	5.10	25.20		284.00
2000/04/05	148.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20		311.00
2000/05/03	141.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	312.00
2000/06/07	149.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	320.00
2000/07/05	169.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	340.00
2000/08/02	178.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	349.00
2000/09/06	184.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	355.00
2000/10/04	190.84	95.60	4.00		14.50	0.20	17.56	5.10	25.20	8.00	361.00
2000/11/01	191.44	95.60	4.00		14.50	0.20	17.56	5.10	26.50	8.00	363.00
2000/12/06	188.21	95.60	4.00		14.50	0.20	18.79	5.10	26.50	8.00	361.00
2001/01/03	178.21	95.60	4.00		14.50	0.20	18.79	5.10	26.50	8.00	351.00
2001/02/06	182.69	98.00	4.00		16.50	0.20	24.31	5.10	30.00	8.00	361.00
2001/02/07	165.21	95.60	4.00		14.50	0.20	18.79	5.10	26.50	8.00	338.00
2001/03/07	173.71	95.60	4.00		14.50	0.20	18.79	5.10	28.00	8.00	348.00
2001/04/04	187.21	98.00	4.00		16.50	0.20	18.79	5.10	28.00	8.00	366.00
2001/05/02	194.63	98.00	4.00		16.50	0.20	21.37	5.10	28.00	8.00	376.00
2001/06/06	208.63	98.00	4.00		16.50	0.20	21.37	5.10	28.00	8.00	390.00
2001/07/04	202.73	98.00	4.00		16.50	0.20	21.37	5.10	28.90	8.00	385.00
2001/08/01	183.63	98.00	4.00		16.50	0.20	21.37	5.10	30.00		359.00
2001/09/05	176.63	98.00	4.00		16.50	0.20	21.37	5.10	30.00		352.00
2001/10/03	188.63	98.00	4.00		16.50	0.20	21.37	5.10	30.00		364.00
2001/11/07	192.63	98.00	4.00		16.50	0.20	21.37	5.10	30.00		368.00
2001/12/05	171.63	98.00	4.00		16.50	0.20	21.37	5.10	30.00		347.00
2002/01/02	176.69	98.00	4.00		16.50	0.20	24.31	5.10	30.00		355.00
2002/03/06	188.69	98.00	4.00		16.50	0.20	24.31	5.10	30.00		367.00
2002/04/03	211.69	98.00	4.00		18.50	0.20	24.31	5.10	30.00		392.00

Date	IBLC	Fuel Tax	Customs & excise duty	Equalisation Fund	RAF levy	Transport	Wholesale margin	Storage, handling & delivery costs	Retail Margin	Slate levy	Retail Price
2002/05/01	240.69	98.00	4.00		18.50	0.20	24.31	5.10	30.00		421.00
2002/06/05	225.39	98.00	4.00		18.50	0.20	24.31	5.10	31.20	1.00	407.70
2002/07/03	206.39	98.00	4.00		18.50	0.20	24.31	5.10	31.20	1.00	388.70
2002/08/07	206.39	98.00	4.00		18.50	0.20	24.31	5.10	31.20	1.00	388.70
2002/09/04	215.39	98.00	4.00		18.50	0.20	24.31	5.10	31.20	1.00	397.70
2002/10/02	225.39	98.00	4.00		18.50	0.20	26.21	5.10	32.60	3.00	413.00
2002/11/06	227.09	98.00	4.00		18.50	0.20	26.21	5.10	32.60	3.00	414.70
2002/12/04	209.00	98.00	4.00		18.50	0.20	28.30	5.10	32.60	3.00	400.70
2003/01/01	183.00	98.00	4.00		18.50	0.20	28.30	5.10	32.60	1.00	372.70
2003/02/05	191.00	98.00	4.00		18.50	0.20	28.30	5.10	32.60	1.00	378.70
2003/03/05	220.60	98.00	4.00		21.50	0.20	28.30	5.10	35.00	1.00	413.70
2003/04/02	217.80	101.00	4.00		21.50	0.20	28.30	5.10	35.00	1.00	413.90

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**Explanatory Notes:**

1. IBLC = In-bond landed cost.
  2. RAF =Road Accident Fund.
  3. BFP = Basic Fuel Price
  4. In 2003 IBLC was replaced by BFP
  5. Transport is for transporting product from the refinery to the depot (at the coast). A further amount of 11 c/l is applicable when the product is sold in Gauteng.
  6. On 3 May 2000 a 8.0c/l Slate subsidy was implemented to finance the cumulative over/under recovery account of the local oil industry, which had a negative balance of R1 142,850 million as at the end of March 2000.
  7. The DME approved the termination of the ad-hoc slate levy with effect from 1 August 2001.
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There are a number of components that contribute to the final retail price of petrol. These are shown in Figure 2.4. The components that contribute to the retail price of petrol include: In bond landed cost (IBLC), fuel tax, equalisation fund, transport costs, wholesale margin, custom and excise duty Road Accident Fund levy, storage, handling & delivery costs and retail margin.

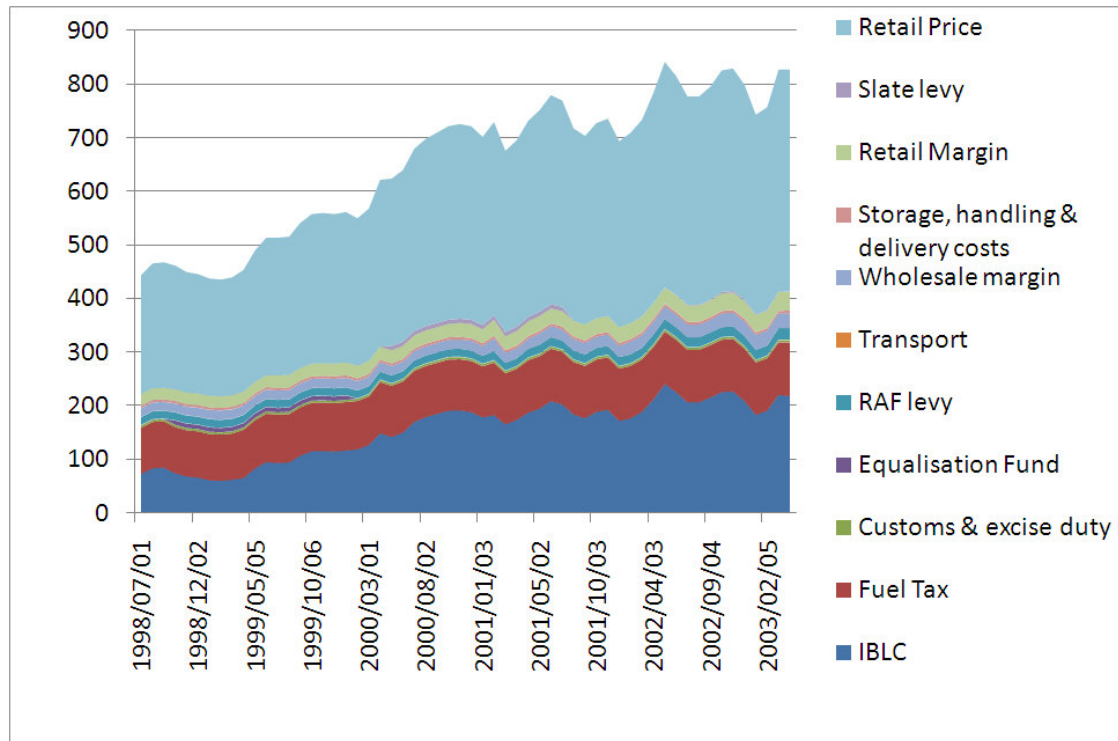


Figure 2.4: Monthly retail petrol prices - individual components (mogas 93, nominal at coast) - cents per litre (c/l)

The unleaded petrol 93 (ULP 93) individual components (customs & excise duty, dealers margin, fuel levy, incremental inland transport recovery levy, petroleum products levy, road accident fund levy, service cost recoveries, slate levy, storage, handling & delivery costs, wholesale margin, zone differential in Gauteng and contribution to the basic fuel price) from 2003 to 2010 are shown in Table 2.6. Price components for ULP 93 are based on the basic fuel price (BFP).

**Table 2.6: Monthly petrol prices - individual components ULP 93 - Coast price - cents per litre (c/l)**

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2003/05/07	164.30	4.00	35.00	101.00	0.20			21.50		1.00	5.10	28.3		360.40
2003/06/04	142.80	4.00	35.00	101.00	0.20			21.50		1.00	5.10	28.3		338.90
2003/07/02	171.80	4.00	35.00	101.00	0.20			21.50		1.00	5.10	28.3		367.90
2003/08/06	191.10	4.00	35.70	101.00	0.20			21.50		1.00	5.10	28.3		387.90
2003/09/03	197.10	4.00	35.70	101.00	0.20			21.50		1.00	5.10	28.3		393.90
2003/10/01	175.10	4.00	35.70	101.00	0.20			21.50		1.00	5.10	28.3		371.90
2003/11/05	166.50	4.00	35.70	101.00	0.20			21.50		1.00	5.10	28.3		363.30
2003/12/03	162.53	4.00	35.70	101.00	0.20			21.50		1.00	5.10	28.3		359.33
2004/01/07	158.53	4.00	35.70	101.00	0.20			21.50		1.00	6.70	37.27		365.90
2004/02/04	188.53	4.00	35.70	101.00	0.20			21.50		1.00	6.70	37.49		396.12
2004/03/03	196.43	4.00	36.80	101.00	0.20			21.50		1.00	6.70	37.27		404.90
2004/04/07	202.73	4.00	36.80	111.00	0.20			26.50		1.00	6.70	37.27		426.20
2004/05/05	204.73	4.00	36.80	111.00	0.20			26.50		1.00	6.70	37.27		428.20
2004/06/02	242.73	4.00	36.80	111.00	0.20			26.50		1.00	6.70	37.27		466.20
2004/07/07	226.73	4.00	36.80	111.00	0.20			26.50		1.00	6.70	37.27		450.20
2004/08/04	224.53	4.00	39.80	111.00	0.20			26.50		1.00	6.70	37.27		451.00
2004/09/01	214.73	4.00	39.80	111.00	0.20			26.50		1.00	6.70	37.27		441.20
2005/01/05	199.91	4.00	39.80	111.00	13.00			26.50		4.00	7.00	39.27		444.48
2005/02/02	218.47	4.00	40.60	111.00	13.00			26.50		4.00	7.00	39.27		463.84
2005/03/02	216.63	4.00	40.60	111.00	13.00			26.50		4.00	7.00	39.27		462.00

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2005/04/06	246.23	4.00	40.60	116.00	13.40			31.50		4.00	7.00	39.27		502.00
2005/05/04	266.23	4.00	40.60	116.00	13.40			31.50		4.00	7.00	39.27		522.00
2005/06/01	244.23	4.00	40.60	116.00	13.40			31.50		10.00	7.00	39.27		506.00
2005/07/06	273.23	4.00	40.60	116.00	13.40			31.50		10.00	7.00	39.27		535.00
2005/08/03	300.23	4.00	40.60	116.00	13.40			31.50		10.00	7.00	39.27		562.00
2005/09/07	326.23	4.00	43.60	116.00	13.40			31.50		10.00	7.00	39.27		591.00
2005/10/05	338.23	4.00	43.60	116.00	13.40			31.50		10.00	7.00	39.27		603.00
2005/11/02	307.23	4.00	43.60	116.00	13.40			31.50		10.00	7.00	39.27		572.00
2005/12/07	272.23	4.00	43.60	116.00	13.40			31.50		15.00	7.00	39.27		542.00
2006/03/01	269.23	4.00	43.60	116.00				31.50	7.00	15.00	7.00	39.27	13.40	539.00
2006/05/03	334.63	4.00	43.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	600.00
2006/06/07	370.63	4.00	43.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	636.00
2006/07/05	395.63	4.00	43.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	661.00
2006/08/02	426.63	4.00	43.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	692.00
2006/09/06	426.63	4.00	43.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	692.00
2006/10/04	337.63	4.00	46.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	606.00
2006/11/01	316.63	4.00	46.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	585.00
2006/12/06	309.63	4.00	46.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	578.00
2007/01/03	315.63	4.00	46.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	584.00
2007/02/07	292.63	4.00	46.90	116.00				36.50	7.00	5.00	7.00	39.27	13.70	561.00
2007/03/07	315.53	4.00	48.00	116.00		0.19		36.50	7.00	4.81	7.00	39.27	13.70	585.00
2007/04/04	374.53	4.00	48.00	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.70	654.00
2007/05/02	408.53	4.00	48.00	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.70	688.00
2007/06/06	431.33	4.00	48.00	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	711.00
2007/07/04	423.33	4.00	48.00	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	703.00
2007/08/01	408.33	4.00	48.00	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	688.00
2007/09/05	386.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	678.00
2007/10/03	395.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	687.00

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2007/11/07	398.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	690.00
2007/12/05	441.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	733.00
2008/01/02	441.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	733.00
2008/02/06	458.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	750.00
2008/03/05	519.63	4.00	59.70	121.00		0.19		41.50	7.00	4.81	7.00	39.27	13.90	811.00
2008/04/02	575.63	4.00	59.70	127.00		0.15		46.50	7.00	4.85	7.00	39.27	13.90	878.00
2008/05/07	606.63	4.00	59.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	39.27	13.90	933.00
2008/06/02	723.23	4.00	64.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	13.90	1060.00
2008/06/04	651.63	4.00	64.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	39.27	13.90	983.00
2008/07/02	723.23	4.00	64.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	13.90	1060.00
2008/08/06	682.63	4.00	64.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	14.50	1020.00
2008/09/03	593.63	4.00	64.70	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	14.50	951.00
2008/11/05	519.03	4.00	67.30	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	14.50	879.00
2008/12/03	358.03	4.00	67.30	127.00	1.50		0.15	46.50	9.50	4.85	9.50	44.67	14.50	718.00
2009/01/02	265.98	4.00	67.30	127.00	1.50		0.15	46.50	9.50	0.00	9.50	44.67	15.40	582.00
2009/02/04	326.98	4.00	67.30	127.00	1.50		0.15	46.50	9.50	0.00	9.50	44.67	15.40	643.00
2009/03/04	371.98	4.00	67.30	127.00	1.50		0.15	46.50	9.50	0.00	9.50	44.67	15.40	688.00
2009/04/01	367.48	4.00	67.30	150.00	1.50		0.15	64.00	9.50	0.00	9.50	44.67	15.40	724.00
2009/05/06	364.48	4.00	67.30	150.00	1.50		0.15	64.00	9.50	0.00	9.50	44.67	15.40	721.00
2009/06/03	379.38	4.00	67.30	150.00	3.00		0.15	64.00	9.50	0.00	9.50	44.67	14.00	736.00
2009/07/01	416.38	4.00	67.30	150.00	3.00		0.15	64.00	9.50	0.00	9.50	44.67	14.00	773.00
2009/08/05	389.98	4.00	72.70	150.00	3.00		0.15	64.00	9.50	0.00	9.50	44.67	14.00	752.00
2009/09/02	425.98	4.00	72.70	150.00	3.00		0.15	64.00	9.50	0.00	9.50	44.67	14.00	788.00
2009/10/07	379.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	749.00
2009/11/07	379.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	749.00
2009/12/02	406.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	776.00
2010/01/06	397.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	767.00
2010/02/03	415.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	785.00

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2010/03/03	415.48	4.00	72.70	150.00	3.00		0.15	64.00	10.80	0.00	10.80	50.87	14.00	785.00
2010/04/07	445.28	4.00	72.70	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	14.00	840.00
2010/05/05	457.28	4.00	72.70	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	856.00
2010/06/02	430.28	4.00	72.70	167.50	3.00		0.15	75.00	10.80	0.00	10.80	50.87	15.50	827.00
2010/07/07	415.28	4.00	72.70	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	812.00
2010/08/04	405.28	4.00	72.70	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	802.00
2010/09/01	395.28	4.00	72.70	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	792.00
2010/10/06	390.78	4.00	81.20	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	796.00
2010/11/03	410.78	4.00	81.20	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	816.00
2010/12/01	423.78	4.00	81.20	167.50	3.00		0.15	72.00	10.80	0.00	10.80	50.87	15.50	829.00

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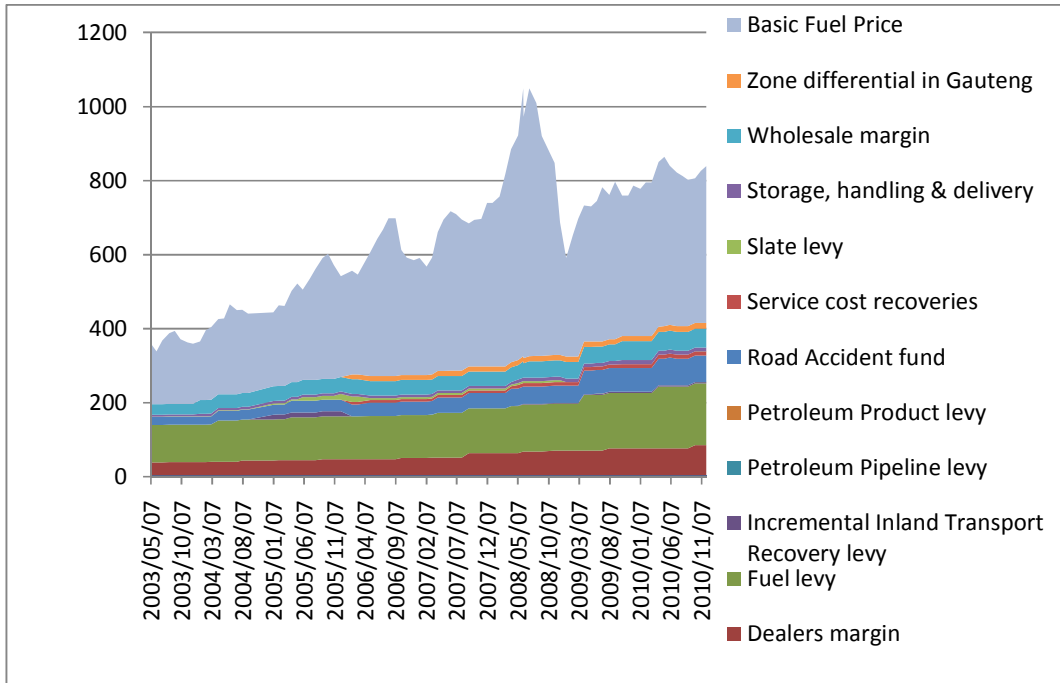
Description of table headings

- 1 - Basic Fuel Price
- 2 - Customs & excise duty
- 3 - Dealers margin
- 4 - Fuel levy
- 5 - Incremental Inland Transport Recovery levy
- 6 - Petroleum Pipelines levy
- 7 - Petroleum Products levy
- 8 - Road Accident Fund levy
- 9 - Service cost recoveries
- 10 - Slate levy
- 11 - Storage, handling & delivery costs
- 12 - Wholesale margin
- 13 - Zone differential in Gauteng
- 14 - Retail Price

**Explanatory notes:**

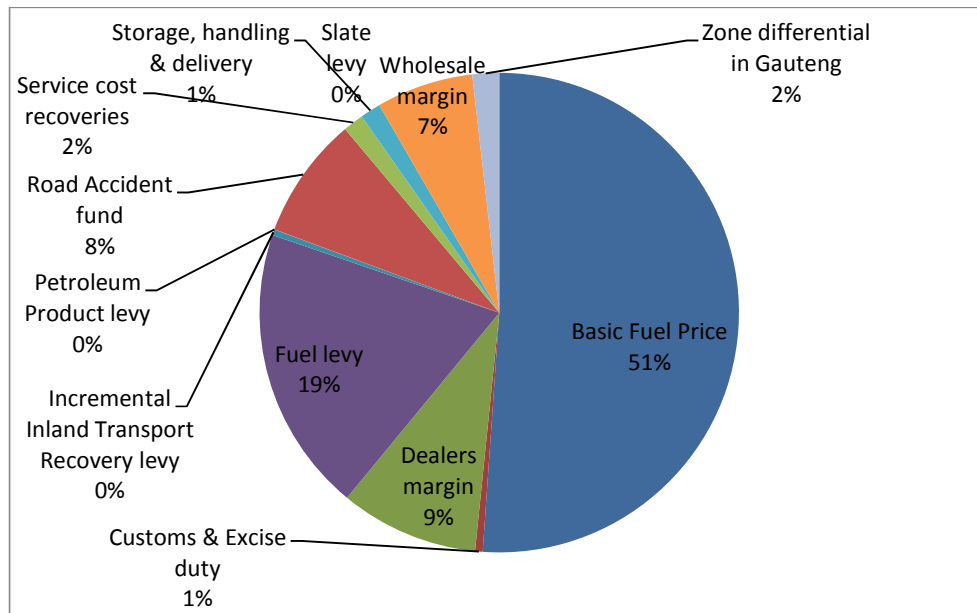
1. Price component data was provided by the Department of Minerals and Energy (DME).
  2. Central Road Safety Fund. An amount of 0.2 c/l was allocated to this fund from 12/11/1990 to 03/04/1996.
  3. On 3 May 2000 a 8.0c/l Slate subsidy (col. 10) was implemented to finance the cumulative over/under recovery account of the local oil industry, which had a negative balance of R1 142,850 million as at the end of March 2000.
  4. The DME approved the termination of the ad-hoc slate levy with effect from 1 August 2001.
-

There are a number of components that contribute to the final price of petrol (ULP 93) and these are shown in Figure 2.5. These components include: customs & excise duty, dealers margin, fuel levy, incremental inland transport recovery levy, petroleum products levy, road accident fund levy, service cost recoveries, slate levy, storage, handling & delivery costs, wholesale margin, zone differential in Gauteng and the basic fuel price.



**Figure 2.5 Monthly retail petrol prices - individual components (ULP 93, nominal at coast) - cents per litre (c/l)**

To identify the contribution of each component to the final price of petrol, all the components are illustrated in Figure 2.6. The basic fuel price, fuel levy, road accident fund and dealers margin were the major contributors to the retail price of ULP 93 in 2010. They accounted for 51%, 19%, 8% and 9% respectively.



**Figure 2.6: Retail petrol prices - individual components 2010 (ULP 93, nominal at coast) - cents per litre (c/l)**

### 2.2.3 Diesel

The reef and coast prices of 0.5%, 0.3% and 0.05% sulphur diesel are provided in Table 2.7. These prices are from 1998 to 2010.

**Table 2.7: Monthly diesel wholesale prices - cents per litre (c/l)**

Date	Diesel 0.5% Sulphur		Diesel 0.3% Sulphur		Diesel 0.05% Sulphur	
	Coast	Reef	Coast	Reef	Coast	Reef
1998/03/04	165.90	176.80				
1998/04/01	171.90	183.10				
1998/05/06	174.90	186.10				
1998/06/03	179.90	191.10				
1998/07/01	176.90	188.10				
1998/08/05	183.90	195.10				
1998/09/02	183.90	195.10				
1998/10/07	188.90	200.10				
1998/11/04	188.90	200.10				
1998/12/02	184.90	196.10				
1999/01/06	180.90	192.10				
1999/02/03	183.90	195.10				
1999/03/03	189.90	201.10				
1999/04/07	189.90	201.10				
1999/05/05	197.90	209.10				
1999/06/02	202.90	214.10				
1999/07/07	201.90	213.10				
1999/08/04	204.05	215.25				
1999/09/01	215.05	226.25				
1999/10/06	222.05	233.25				
1999/11/03	228.55	239.75				
1999/12/01	230.55	241.75				
2000/01/05	235.55	246.75				
2000/02/02	231.55	242.75				
2000/03/01	241.55	252.75				
2000/04/05	266.55	277.75				
2000/05/03	266.55	277.75				
2000/06/07	260.55	271.75				
2000/07/05	268.55	279.75				
2000/08/02	281.55	292.75				
2000/09/06	296.55	307.75				
2000/10/04	333.55	344.75				
2000/11/01	345.55	356.75				
2000/12/06	336.75	347.95				
2001/01/03	317.75	328.95				
2001/02/07	301.75	312.95				
2001/03/07	300.75	311.95				

Date	Diesel 0.5% Sulphur		Diesel 0.3% Sulphur		Diesel 0.05% Sulphur	
	Coast	Reef	Coast	Reef	Coast	Reef
2001/04/04	306.65	317.95				
2001/05/02	318.25	329.55				
2001/06/06	319.25	330.55				
2001/07/04	323.45	334.75				
2001/08/01	311.45	322.75				
2001/09/05	310.45	321.75				
2001/10/03	314.45	325.75				
2001/11/07	321.45	332.75				
2001/12/05	317.45	328.75				
2002/01/02			329.50	340.80		
2002/02/06			334.50	345.80		
2002/03/06			325.50	336.80		
2002/04/03			330.50	341.90		
2002/05/01			356.80	368.20		
2002/06/05			351.80	363.10		
2002/07/03			339.80	351.10		
2002/08/07			338.80	350.10		
2002/09/04			347.80	359.20		
2002/10/02			362.80	374.20		
2002/11/06			381.60	393.00		
2002/12/04			370.70	382.10		
2003/01/01			343.70	355.10		
2003/02/05			343.70	355.10		
2003/03/05			359.70	371.10		
2003/04/02			379.70	391.90		
2003/05/07			326.70	338.90		
2003/06/04			286.70	298.90		
2003/07/02			306.70	318.90		
2003/08/06			312.70	324.90		
2003/09/03			313.70	325.90		
2003/10/01			308.70	320.90		
2003/11/05			318.30	330.50		
2003/12/03			323.30	335.50		
2004/01/07			313.30	325.50		
2004/02/04			335.30	347.50		
2004/03/03			338.30	350.50		
2004/04/07			352.30	365.20		
2004/05/05			354.30	367.20		
2004/06/02			384.30	397.20		
2004/07/07			371.30	384.20		
2004/08/04			359.30	372.20		
2004/09/01			391.30	404.20		
2004/10/06			415.30	428.20		
2004/11/03			438.30	451.20		

Date	Diesel 0.5% Sulphur		Diesel 0.3% Sulphur		Diesel 0.05% Sulphur	
	Coast	Reef	Coast	Reef	Coast	Reef
2004/12/01			417.60	430.50		
2005/01/05			379.60	392.50		
2005/02/02			371.60	384.50		
2005/03/02			404.60	417.50		
2005/04/06			460.60	473.90		
2005/05/04			470.60	483.90		
2005/06/01			454.60	467.90		
2005/07/06			503.60	516.90		
2005/08/03			519.60	532.90		
2005/09/07			517.60	530.90		
2005/10/05			522.60	535.90		
2005/11/02			523.60	536.90		
2005/12/07			497.60	510.90		
2006/01/04			504.50	517.80		
2006/02/01			504.50	517.80		
2006/03/01			504.50	517.80		
2006/04/05			530.50	544.10		
2006/05/03			557.50	571.10		
2006/06/07			586.50	600.10		
2006/07/05			618.50	632.10		
2006/08/02			640.50	654.10		
2006/09/06			615.50	629.10		
2006/10/04			578.50	595.10		
2006/11/01			578.50	593.10		
2006/12/06			554.50	568.10		
2007/01/03					537.50	551.10
2007/02/07					528.50	542.10
2007/03/07					538.50	552.10
2007/04/04					576.50	590.10
2007/05/02					606.50	620.10
2007/06/06					611.50	627.30
2007/07/04					622.50	636.30
2007/08/01					637.50	651.30
2007/09/05					642.50	656.30
2007/10/03					665.50	679.30
2007/11/07					659.50	673.30
2007/12/05					710.50	724.30
2008/01/02					711.50	725.30
2008/02/06					718.50	732.30
2008/03/05					796.50	810.30
2008/04/02					924.50	938.30
2008/05/07					955.50	1009.30
2008/06/04					1066.50	1080.30
2008/07/02					1129.50	1143.70

Date	Diesel 0.5% Sulphur		Diesel 0.3% Sulphur		Diesel 0.05% Sulphur	
	Coast	Reef	Coast	Reef	Coast	Reef
2008/08/06					1113.50	1127.30
2008/09/03					969.50	983.30
2008/10/01					913.50	927.30
2008/11/05					889.50	903.30
2008/12/03					808.50	822.30
2009/01/07					639.65	654.35
2009/02/04					634.65	649.35
2009/03/04					596.65	611.35
2009/04/01					636.15	650.85
2009/05/06					644.15	658.85
2009/06/03					632.65	645.65
2009/07/01					672.65	685.95
2009/08/05					652.65	665.95
2009/09/02					687.65	700.98
2009/10/07					655.15	668.45
2009/11/04					665.15	678.45
2009/12/02					690.15	703.45
2010/01/06					676.15	689.45
2010/02/03					686.15	699.45
2010/03/03					690.15	703.45
2010/04/07					738.65	751.95
2010/05/05					767.65	781.45
2010/06/02					752.65	766.45
2010/07/07					737.65	751.45
2010/08/04					724.65	738.45
2010/09/01					724.65	738.45
2010/10/06					721.65	735.45
2010/11/03					732.65	746.45
2010/12/01					746.65	760.45

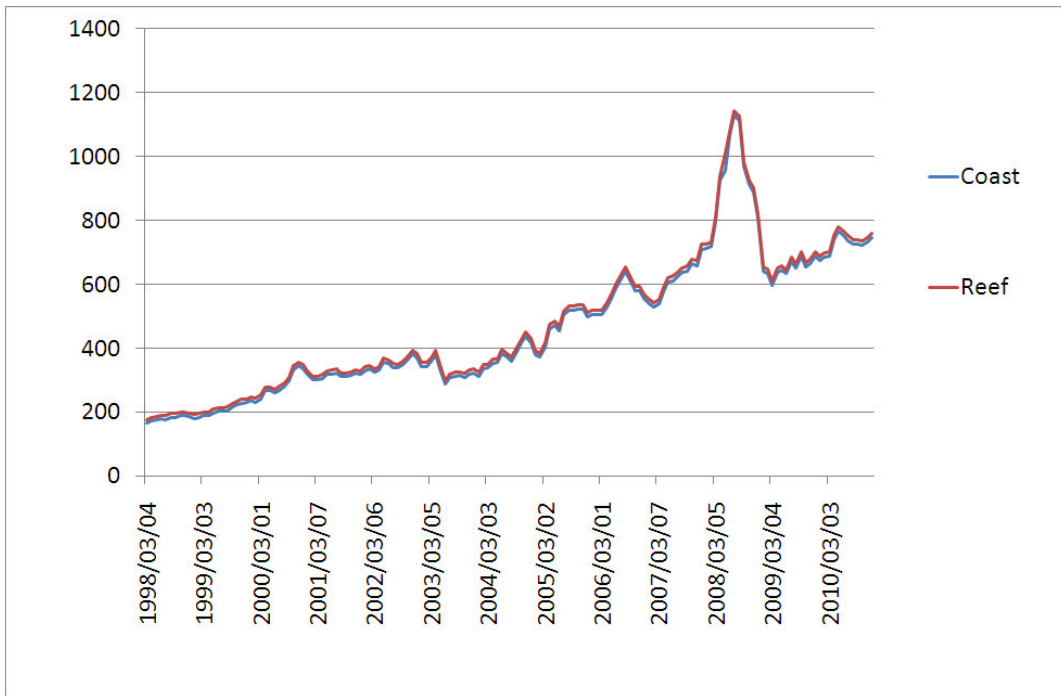
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**Explanatory Notes:**

1. Low duty and Middle duty prices were withdrawn on 1 July 1987. Low duty prices were re-introduced on 1 November 1987 for farming and forestry.
  2. As from March 1998 the wholesale price of Diesel but not the retail price is regulated.
  3. Diesel Grades: With effect from 2 January 2002 the current 0.5% sulphur content diesel grade was replaced by a 0.3% sulphur content diesel grade; on 3 January 2007 0.3% sulphur was replaced with 0.05% sulphur.
  4. The Department of Energy started to report prices of diesel with 0.005% sulphur in 2006.
-

The nominal and real price of diesel between 1998 and 2010 from the coast is shown in Figure 2.7. Between this period there was a change in the sulphur content of diesel as the quality of diesel get improved. From 1998 to 2001 diesel had 0.5% sulphur, then the sulphur level was reduced in 2002 to 0.3%. In January 2006, the maximum sulphur level was reduced again to 0.05%.

The diesel price is affected by the international oil price as South Africa imports most of its crude oil. According to the figure, there was a steady increase in the diesel price from 1998, but a notable increase was in the last quarter of 2000 with 20% increase from the 3<sup>rd</sup> quarter of that year. From then there was a 6% decline in price of diesel between the last quarter of 2006 and the first quarter of 2007. The price kept increasing year after year since then until a sharp increase in 2008 recording a 50% from 2007 which was most likely due to the increase in the price of oil world wide. The price dropped after that and has been picking up in 2010.



**Figure 2.7: Monthly wholesale diesel prices (coast) - cents per litre (c/l)**

The Individual price components for diesel based on IBLC (In Bond landed cost (IBLC), Fuel tax, equalisation fund, transport costs, wholesale margin, custom and excise duty, road accident fund levy, storage, handling & delivery costs and retail margin) of the wholesale price from 1998 to 2002 are shown in Table 2.8.

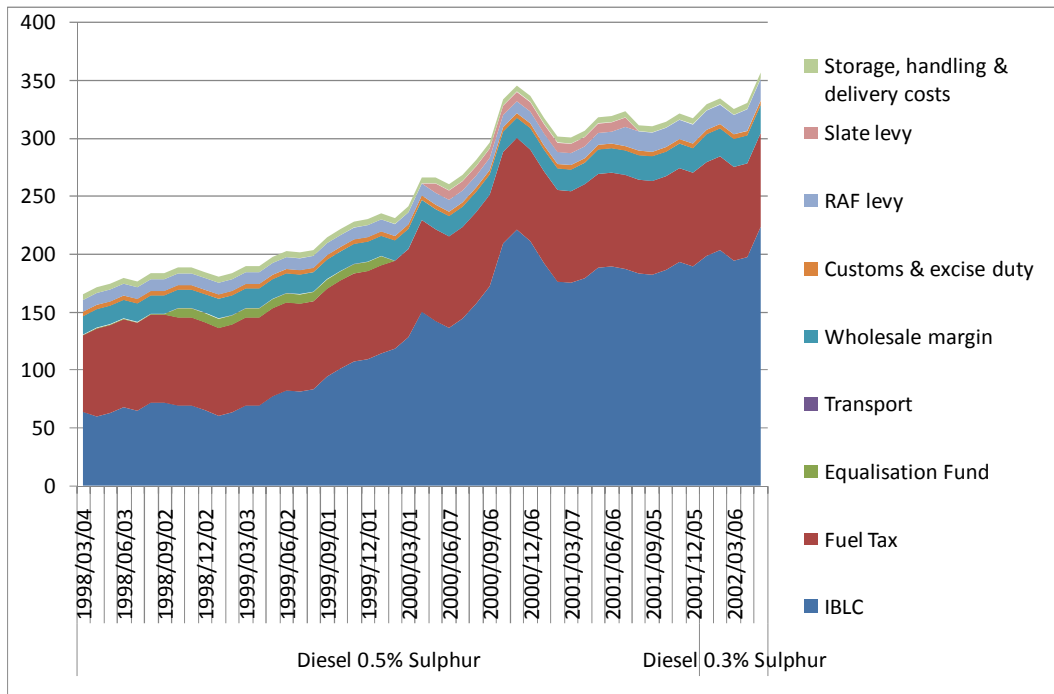
**Table 2.8: Monthly wholesale diesel prices - individual components (Reef) - cents per litre (c/l)**

Date	IBLC	Fuel Tax	Equalisation Fund	Transport	Wholesale margin	Customs & excise duty	RAF levy	Slate levy	Storage, handling & delivery costs	Wholesale price
<b>Diesel 0.5% Sulphur</b>										
1998/03/04	63.75	66.10	0.50	0.10	16.05	4.00	10.30		5.10	165.90
1998/04/01	59.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	171.90
1998/05/06	62.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	174.90
1998/06/03	67.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	179.90
1998/07/01	64.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	176.90
1998/08/05	71.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	183.90
1998/09/02	71.75	76.10	0.50	0.10	16.05	4.00	10.30		5.10	183.90
1998/10/07	69.25	76.10	8.00	0.10	16.05	4.00	10.30		5.10	188.90
1998/11/04	69.25	76.10	8.00	0.10	16.05	4.00	10.30		5.10	188.90
1998/12/02	65.25	76.10	8.00	0.10	16.05	4.00	10.30		5.10	184.90
1999/01/06	60.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	180.90
1999/02/03	63.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	183.90
1999/03/03	69.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	189.90
1999/04/07	69.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	189.90
1999/05/05	77.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	197.90
1999/06/02	82.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	202.90
1999/07/07	81.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	201.90
1999/08/04	83.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	204.05
1999/09/01	94.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	215.05

Date	IBLC	Fuel Tax	Equalisation Fund	Transport	Wholesale margin	Customs & excise duty	RAF levy	Slate levy	Storage, handling & delivery costs	Wholesale price
1999/10/06	101.25	76.10	8.00	0.10	17.05	4.00	10.30		5.10	222.05
1999/11/03	107.25	76.10	8.00	0.10	17.55	4.00	10.30		5.10	228.55
1999/12/01	109.25	76.10	8.00	0.10	17.55	4.00	10.30		5.10	230.55
2000/01/05	114.25	76.10	8.00	0.10	17.55	4.00	10.30		5.10	235.55
2000/02/02	118.25	76.10		0.10	17.55	4.00	10.30		5.10	231.55
2000/03/01	128.25	76.10		0.10	17.55	4.00	10.30		5.10	241.55
2000/04/05	150.25	79.10		0.10	17.55	4.00	10.30		5.10	266.55
2000/05/03	142.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	266.55
2000/06/07	136.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	260.55
2000/07/05	144.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	268.55
2000/08/02	157.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	281.55
2000/09/06	172.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	296.55
2000/10/04	209.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	333.55
2000/11/01	221.25	79.10		0.10	17.55	4.00	10.30	8.00	5.10	345.55
2000/12/06	211.22	79.10		0.10	18.78	4.00	10.30	8.00	5.10	336.75
2001/01/03	192.22	79.10		0.10	18.78	4.00	10.30	8.00	5.10	317.75
2001/02/07	176.22	79.10		0.10	18.78	4.00	10.30	8.00	5.10	301.75
2001/03/07	175.22	79.10		0.10	18.78	4.00	10.30	8.00	5.10	300.75
2001/04/04	179.22	81.00		0.10	18.78	4.00	10.30	8.00	5.10	306.65
2001/05/02	188.24	81.00		0.10	21.36	4.00	10.30	8.00	5.10	318.25
2001/06/06	189.24	81.00		0.10	21.36	4.00	10.30	8.00	5.10	319.25
2001/07/04	187.24	81.00		0.10	21.36	4.00	16.50	8.00	5.10	323.45
2001/08/01	183.24	81.00		0.10	21.36	4.00	16.50		5.10	311.45
2001/09/05	182.24	81.00		0.10	21.36	4.00	16.50		5.10	310.45
2001/10/03	186.24	81.00		0.10	21.36	4.00	16.50		5.10	314.45
2001/11/07	193.24	81.00		0.10	21.36	4.00	16.50		5.10	321.45

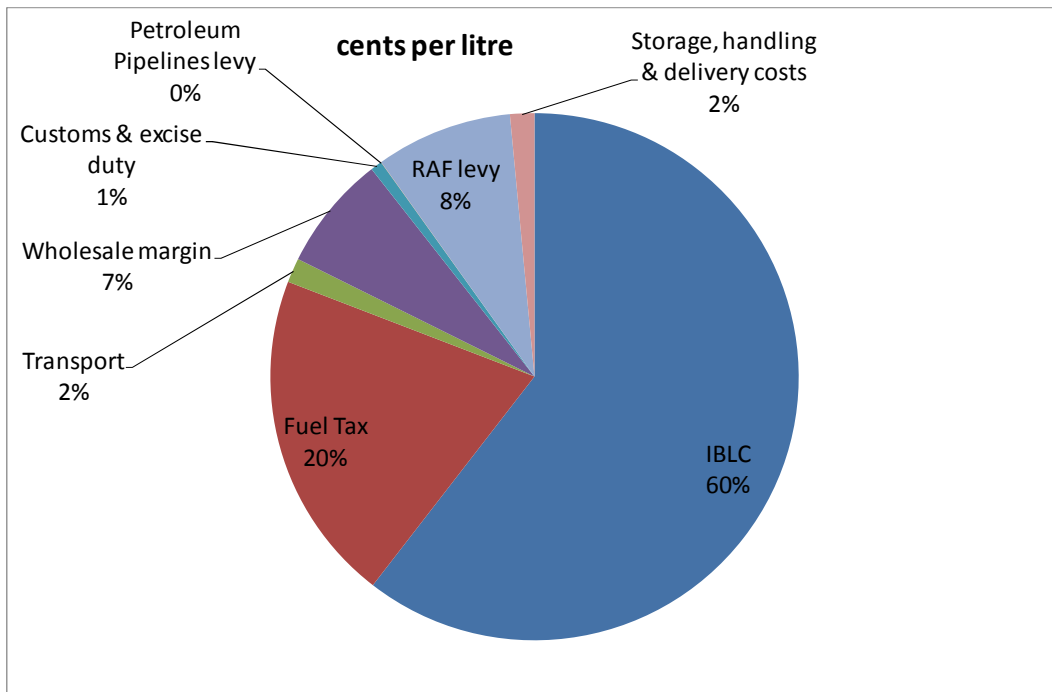
Date	IBLC	Fuel Tax	Equalisation Fund	Transport	Wholesale margin	Customs & excise duty	RAF levy	Slate levy	Storage, handling & delivery costs	Wholesale price
2001/12/05	189.24	81.00		0.10	21.36	4.00	16.50		5.10	317.45
<b>Diesel 0.3% Sulphur</b>										
2002/01/02	198.35	81.00		0.10	24.30	4.00	16.50		5.10	329.50
2002/02/06	203.35	81.00		0.10	24.30	4.00	16.50		5.10	334.50
2002/03/06	194.35	81.00		0.10	24.30	4.00	16.50		5.10	325.50
2002/04/03	197.35	81.00		0.10	24.30	4.00	18.50		5.10	330.50
2002/05/01	223.65	81.00		0.10	24.30	4.00	18.50		5.10	356.80

There are a number of components that contributed to the wholesale price of diesel and these are shown in Figure 2.8. These components are added to determine the final price of diesel: storage, handling & delivery costs, slate levy, road accident fund (RAF) levy, petroleum pipeline levy, custom and excise duty, transport costs, equalisation fund, fuel tax and in bond landed cost (IBLC).



**Figure 2.8: Monthly wholesale diesel prices - individual components (nominal on Reef) - cents per litre (c/l)**

To identify the contribution of each component to the diesel wholesale price, all the components are illustrated in Figure 2.9. The in bond land cost (IBLC) held the major share in the total wholesale price of diesel with 60% share. The second largest contributor to diesel wholesale price was the fuel tax contributing 20%, followed by the road accident fund (RAF) levy (9%), and wholesale margin (7%). The petroleum pipelines levy contributed the smallest share with less that a percent share.



**Figure 2.9: Annual wholesale diesel prices (2002) - individual components (nominal on Reef) - cents per litre (c/l)**

The price individual components for diesel on BPF (customs & excise duty, fuel levy, incremental inland transport recovery levy, IP tracer levy, petroleum products levy, road accident fund (RAF) levy, service cost recoveries, slate levy, wholesale margin, storage, handling & delivery costs, zone differential in Gauteng and contribution to the basic fuel price) of the wholesale price from 2006 to 2010 are shown in Table 2.9.

**Table 2.9: Monthly wholesale diesel prices - individual components (Reef) - cents per litre (c/l)**

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Diesel 0.5% Sulphur</b>															
2006/02/01	307.63	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	517.80
2006/03/01	307.63	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	517.80
2006/05/03	369.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	574.50
2006/06/07	401.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	606.50
2006/07/05	432.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	637.50
2006/08/02	457.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	662.50
2006/09/06	457.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	662.50
2006/10/04	391.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	596.50
2006/11/01	390.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	595.50
2006/12/06	364.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	569.50
2007/01/03	345.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	551.10
2007/02/07	336.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	542.10
2007/03/07	346.63	4.00		100.00		0.01	0.19		36.50	7.00	4.81	39.26	7.00	13.70	552.10
2007/04/04	374.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.70	590.10
2007/05/02	404.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.70	620.10
2007/06/06	409.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	625.30
2007/07/04	420.63	4.00		105.00			0.19		41.50	7.00	4.81	39.26	7.00	13.90	636.30
2007/08/01	435.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	651.30
2007/09/05	440.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	656.30

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2007/10/03	463.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	679.30
2007/11/07	457.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	673.30
2007/12/05	508.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	724.30
2008/01/02	509.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	725.30
2008/02/06	516.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	732.30
2008/03/05	594.63	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	810.30
2008/04/02	711.63	4.00		111.00		0.01	0.15		46.50	7.00	4.85	39.26	7.00	13.90	938.30
2008/05/07	758.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	39.26	9.50	13.90	1009.30
2008/06/02	892.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	13.90	1148.70
2008/06/04	829.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	39.26	9.50	13.90	1080.30
2008/07/02	892.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	13.90	1148.70
2008/08/06	870.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	1127.30
2008/09/03	706.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	983.30
2008/11/05	626.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	903.30
2008/12/03	545.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	822.30
2009/01/02	421.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50		44.66	9.50	15.40	654.35
2009/02/04	416.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	0.00	44.66	9.50	15.40	649.35
2009/03/04	378.63	4.00		111.00	1.50	0.01		0.15	46.50	9.50	0.00	44.66	9.50	15.40	611.35
2009/04/01	376.63	4.00		135.00	1.50	0.01		0.15	64.00	9.50	0.00	44.66	9.50	15.40	650.85
2009/05/06	384.63	4.00		135.00	1.50	0.01		0.15	64.00	9.50	0.00	44.66	9.50	15.40	658.85
2009/06/03	371.63	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	645.95
2009/07/01	411.63	4.00		135.00	3.00	0.01		0.15	64.00	9.50		44.66	9.50	14.00	685.95
2009/08/05	391.63	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	665.95
2009/09/02	426.63	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	700.95
2009/10/07	386.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	668.45
2009/11/07	396.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80		50.86	10.80	14.00	678.45
2009/12/02	421.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	703.45
2010/01/06	407.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	689.45
2010/02/03	417.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	699.45

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2010/03/03	421.63	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	1402.90
2010/04/07	444.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	803.90
2010/05/05	472.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	781.45
2010/06/02	457.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	766.54
2010/07/07	442.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	751.45
2010/08/04	429.63	4.00		152.50	3.00	0.01		0.15	72.00		0.00	50.86	10.80	14.00	738.45
2010/09/01	429.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	738.45
2010/10/06	426.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	735.45
2010/11/03	437.63	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	746.45
2010/12/01	451.63	4.00		152.50	3.00	0.05		0.15	72.00	10.80	0.00	50.86	10.80	14.00	760.45
<b>Diesel 0.3% Sulphur</b>															
2006/02/01	294.73	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	504.90
2006/03/01	291.73	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	501.90
2006/05/03	365.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	571.10
2006/06/07	394.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	600.10
2006/07/05	426.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	632.10
2006/08/02	448.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	654.10
2006/09/06	448.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	654.10
2006/10/04	389.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	595.10
2006/11/01	387.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	593.10
2006/12/06	362.63	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	568.10
<b>Diesel 0.05% Sulphur</b>															
2006/02/01	314.03	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	524.20
2006/03/01	312.03	4.00		100.00		0.01			31.50	7.00	15.00	39.26	7.00	13.40	522.20
2006/05/03	350.13		7.40							14.40	5.00	39.47	7.00	23.20	432.20
2006/06/07	370.13		7.40							14.40	5.00	39.47	7.00	23.20	452.20
2006/07/05	406.13		7.40							14.40	5.00	39.47	7.00	23.20	488.20
2006/08/02	427.13		7.40							14.40	5.00	39.47	7.00	23.20	509.20

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2006/09/06	427.13		7.40							14.40	5.00	39.47	7.00	23.20	509.20
2006/10/04	400.13		7.40							14.40	5.00	39.47	7.00	23.20	482.20
2006/11/01	387.13		7.40							14.40	5.00	39.47	7.00	23.20	469.20
2006/12/06	362.13		7.40							14.40	5.00	39.47	7.00	23.20	444.20
2007/01/03	347.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	552.50
2007/02/07	341.03	4.00		100.00		0.01			36.50	7.00	5.00	39.26	7.00	13.70	546.50
2007/03/07	349.03	4.00		100.00		0.01	0.19		36.50	7.00	4.81	39.26	7.00	13.70	554.50
2007/04/04	376.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.70	591.50
2007/05/02	406.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.70	621.50
2007/06/06	413.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	628.70
2007/07/04	424.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	639.70
2007/08/01	439.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	654.70
2007/09/05	444.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	659.70
2007/10/03	467.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	682.70
2007/11/07	461.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	676.70
2007/12/05	513.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	728.70
2008/01/02	513.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	728.70
2008/02/06	520.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	735.70
2008/03/05	598.03	4.00		105.00		0.01	0.19		41.50	7.00	4.81	39.26	7.00	13.90	813.70
2008/04/02	717.03	4.00		111.00		0.01	0.15		46.50	7.00	4.85	39.26	7.00	13.90	943.70
2008/05/07	765.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	39.26	9.50	13.90	1015.70
2008/06/02	898.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	13.90	1154.10
2008/06/04	835.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	39.26	9.50	13.90	1085.70
2008/07/02	898.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	13.90	1154.10
2008/08/06	875.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	1131.70
2008/09/03	709.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	985.70
2008/11/05	633.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	909.70
2008/12/03	553.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	4.85	44.66	9.50	14.50	829.70
2009/01/02	431.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50		44.66	9.50	15.40	663.75

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2009/02/04	424.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	0.00	44.66	9.50	15.40	656.75
2009/03/04	386.03	4.00		111.00	1.50	0.01		0.15	46.50	9.50	0.00	44.66	9.50	15.40	618.75
2009/04/01	384.03	4.00		135.00	1.50	0.01		0.15	64.00	9.50	0.00	44.66	9.50	15.40	658.25
2009/05/06	390.03	4.00		135.00	1.50	0.01		0.15	64.00	9.50	0.00	44.66	9.50	15.40	664.25
2009/06/03	376.03	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	650.35
2009/07/01	416.03	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	690.35
2009/08/05	395.03	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	669.35
2009/09/02	431.03	4.00		135.00	3.00	0.01		0.15	64.00	9.50	0.00	44.66	9.50	14.00	705.35
2009/10/07	390.03	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	671.85
2009/11/07	398.03	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	679.85
2009/12/02	424.03	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	705.85
2010/01/06	410.03	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	691.85
2010/02/03	420.03	4.00		135.00	3.00	0.01		0.15	64.00	10.80	0.00	50.86	10.80	14.00	701.85
2010/04/07	447.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	14.00	701.85
2010/05/05	475.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	754.35
2010/06/02	460.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	783.85
2010/07/07	444.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	768.85
2010/08/04	413.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	752.85
2010/09/01	433.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	739.85
2010/10/06	430.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	741.85
2010/11/03	442.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	738.85
2010/12/01	457.03	4.00		152.50	3.00	0.01		0.15	72.00	10.80	0.00	50.86	10.80	29.50	750.85

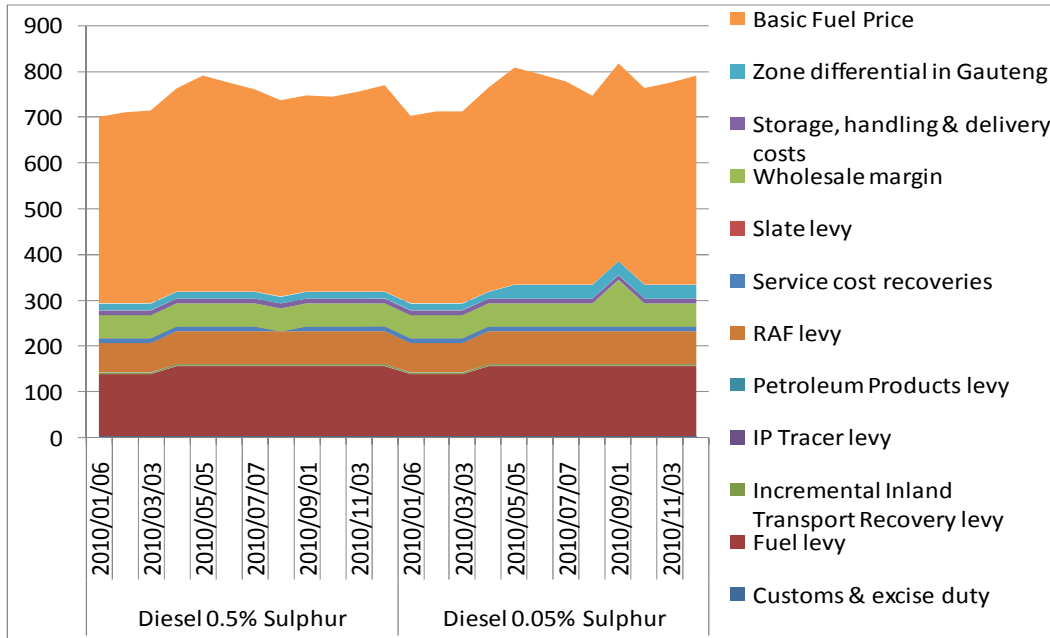
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**Description of the table heading:**

- 1 - Basic Fuel Price
- 2 - Customs & excise duty
- 3 - Distribution cost
- 4 - Fuel levy
- 5 - Incremental Inland Transport Recovery levy
- 6 - IP Tracer levy

- 7 - Petroleum Pipelines levy
  - 8 - Petroleum Products levy
  - 9 - RAF levy
  - 10 - Service cost recoveries
  - 11 - Slate levy
  - 12 - Wholesale margin
  - 13 - Storage, handling & delivery costs
  - 14 - Zone differential in Gauteng
  - 15 - Wholesale price
-

There are a number of components that contribute to the wholesale price of diesel as shown in Figure 2.10. These components are added to determine the final price of diesel: customs & excise duty, fuel levy, incremental inland transport recovery levy, IP tracer levy, petroleum products levy, road accident funds (RAF) levy, service cost recoveries, slate levy, wholesale margin, storage, handling & delivery costs, zone differential in Gauteng and contribution to the basic fuel price.



**Figure 2.10: Monthly wholesale diesel prices BFP - individual components (nominal on Reef) - cents per litre (c/l)**

## 2.2.4 Illuminating paraffin

The historical prices of illuminating paraffin from 1989 to 2010 are shown in Table 2.10. These prices are reflected for both the coast and the reef side in 20l tin customer own collection (coc) and in bulk. The prices are presented in different measuring units.

**Table 2.10: Monthly illuminating paraffin price**

Date	Paraffin Illuminating						
	Coast			Gauteng	Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
1989/01/16	15.01	75.05	51.83		16.67	83.35	60.13
1989/04/15	16.07	80.35	57.13		17.87	89.35	66.13
1990/09/04	19.07	95.35	72.13		21.11	105.55	82.33
1990/10/20	25.53	127.65	97.13		27.57	137.85	107.33
1990/11/12	24.93	124.65	94.13		26.97	134.85	104.33
1991/03/25	22.53	112.65	82.13		24.57	122.85	92.33
1991/05/06	20.63	103.15	72.13		22.67	113.35	82.33
1992/03/21	20.63	103.15	72.13		22.85	114.25	83.23
1992/10/10	21.23	106.15	75.13		23.45	117.25	86.23
1993/04/02	22.63	113.15	82.13		25.01	125.05	94.03
1993/09/15	23.73	118.65	87.63		26.11	130.55	99.53
1993/10/30	23.33	116.65	85.63		25.71	128.55	97.53
1994/11/02	24.13	120.65	89.63		26.51	132.55	101.53
1994/12/07	25.13	125.65	94.63		27.51	137.55	106.53
1995/02/01	24.33	121.65	90.63		26.71	133.55	102.53
1995/03/01	24.53	122.65	91.63		26.91	134.55	103.53
1995/05/03	24.33	121.65	90.63		26.71	133.55	102.53
1995/06/07	24.73	123.65	92.63		27.11	135.55	104.53
1995/07/05	24.73	123.65	92.63		27.11	135.55	104.53
1995/08/02	24.13	120.65	89.63		26.51	132.55	101.53
1995/09/06	23.93	119.65	88.63		26.31	131.55	100.53
1995/11/01	24.53	122.65	91.63		26.91	134.55	103.53
1995/12/06	25.53	127.65	96.63		27.91	139.55	108.53
1996/01/03	27.33	136.65	105.63		29.71	148.55	117.53
1996/02/07	28.53	142.65	111.63		30.91	154.55	123.53
1996/03/06	27.93	139.63	108.63		30.31	151.53	120.53
1996/04/03	28.13	140.63	109.63		30.51	152.53	121.53
1996/05/01	28.33	141.63	110.63		30.71	153.53	122.53
1996/06/05	29.13	145.63	114.63		31.51	157.53	126.53
1996/07/03	27.93	139.63	108.63		30.31	151.53	120.53
1996/08/07	27.13	135.63	104.63		29.51	147.53	116.53
1996/09/04	28.53	142.63	111.63		30.91	154.56	123.56

Date	Paraffin Illuminating						
	Coast		Gauteng		Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
1996/10/02	30.93	154.63	123.63		33.31	166.53	135.53
1996/11/06	31.33	156.63	125.63		33.71	168.53	137.53
1996/12/04	31.93	159.63	128.63		34.31	171.53	140.53
1997/01/01	33.53	167.63	136.63		35.91	179.53	148.53
1997/02/05	33.73	168.63	137.63		36.11	180.53	149.53
1997/03/05	31.13	155.63	124.63		33.51	167.53	136.53
1997/04/02	29.33	146.63	115.63		31.71	158.53	127.53
1997/05/07	28.53	142.63	111.63		30.91	154.53	123.53
1997/06/04	27.73	138.63	107.63		30.15	150.73	120.73
1997/07/02	27.53	137.63	106.63		29.95	149.73	119.73
1997/08/06	27.53	137.63	106.63		29.95	149.73	119.73
1997/09/03	27.33	136.63	105.63		29.75	148.73	118.73
1997/10/01	26.73	133.63	104.63		29.15	145.73	117.63
1997/11/05	27.53	137.65	108.63		30.15	150.75	121.73
1997/12/03	29.33	146.65	117.63		31.95	159.75	130.73
1998/01/07	27.93	139.65	110.63		30.55	152.75	123.73
1998/02/04	25.73	128.65	99.63		28.35	141.75	112.73
1998/03/04	24.33	121.65	92.63		26.95	134.75	105.73
1998/04/01	23.73	118.65	89.63		26.55	132.75	103.53
1998/05/06	24.53	122.65	93.63		27.35	136.75	107.53
1998/06/03	25.73	128.65	99.63		28.55	142.75	113.53
1998/07/01	25.13	125.65	96.63		27.95	139.75	110.53
1998/08/05	26.73	133.65	104.63		29.55	147.75	118.53
1998/09/02	27.33	136.65	107.63		30.15	150.75	121.53
1998/10/07	27.33	136.65	107.63		30.15	150.75	121.53
1998/11/04	27.33	136.65	107.63		30.15	150.75	121.53
1998/12/02	26.13	130.65	101.63		28.95	144.75	115.53
1999/01/06	25.13	125.65	96.63		27.95	139.75	110.53
1999/02/03	25.73	128.65	99.63		28.55	142.75	113.53
1999/03/03	37.33	186.63	105.63		40.15	200.73	119.53
1999/04/07	37.13	185.63	104.63		40.05	200.23	119.23
1999/05/05	39.13	195.63	114.63		42.05	210.23	129.23
1999/06/02	40.53	202.63	121.63		43.45	217.23	136.23
1999/07/07	40.33	201.63	120.63		43.25	216.23	135.23
1999/08/04	41.13	205.63	124.63		44.05	220.23	139.23
1999/09/01	43.93	219.63	138.63		48.45	242.23	153.23
1999/10/06	45.33	226.63	145.63		49.85	249.23	160.23
1999/11/03	46.03	230.13	149.13		50.55	252.73	163.73
1999/12/01	46.43	232.13	151.13		50.95	254.73	165.73
2000/01/05	49.23	246.13	157.13		52.19	260.93	171.93
2000/02/02	50.43	252.13	163.13		53.39	266.93	177.93

Date	Paraffin Illuminating						
	Coast		Gauteng		Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
2000/03/01	53.23	266.13	177.13		56.19	280.93	191.93
2000/04/05	56.03	280.13	191.13		59.35	296.73	207.73
2000/05/03	55.43	277.13	188.13		58.75	293.73	204.73
2000/06/07	54.63	273.13	184.13		57.95	289.73	200.73
2000/07/05	55.43	277.13	188.13		58.75	293.73	204.73
2000/08/02	58.03	290.13	201.13		61.35	306.73	217.73
2000/09/06	60.83	304.13	215.13		64.15	320.73	231.73
2000/10/04	67.83	339.13	250.13		71.11	355.53	266.53
2000/11/01	72.63	363.13	274.13		75.91	379.53	290.53
2000/12/06	72.47	362.33	273.33		75.75	378.73	289.73
2001/01/03	68.07	340.33	251.33		71.35	356.73	267.73
2001/02/07	63.07	315.33	226.33		66.35	331.73	242.73
2001/03/07	62.07	310.33	221.33		65.35	326.73	237.73
2001/04/04	63.67	318.33	229.33		67.27	336.33	247.33
2001/05/02	64.99	324.93	235.93		68.59	342.93	253.93
2001/06/02	64.19	320.93	231.93		67.79	338.93	249.93
2001/07/04	63.39	316.93	227.93		66.99	334.93	245.93
2001/08/01	61.39	306.93	217.93		64.99	324.93	235.93
2001/09/05	61.39	306.93	217.93		64.99	324.93	235.93
2001/10/03	63.39	316.93	227.93		66.99	334.93	245.93
2001/11/07	65.19	325.93	236.93		68.79	343.93	254.93
2001/12/05	63.19	315.93	226.93		66.79	333.93	244.93
2002/01/02	65.18	325.90	236.90		68.78	343.90	254.90
2002/02/06	68.38	341.90	252.90		71.98	359.90	270.90
2002/03/06	67.38	336.90	247.90		70.98	354.90	265.90
2002/04/03	66.18	330.90	241.90		69.94	349.70	260.70
2002/05/01	68.46	342.30	253.30		72.22	361.10	272.10
2002/06/05	66.86	334.30	245.30		70.62	353.10	264.10
2002/07/03	64.66	323.30	234.30		68.42	342.10	253.10
2002/08/07	64.26	321.30	232.30		68.02	340.10	251.10
2002/09/04	66.86	334.30	245.30		70.62	353.10	264.10
2002/10/02	71.26	356.30	267.30		75.02	375.10	286.10
2002/11/06	75.04	375.20	286.20		78.80	394.00	305.00
2002/12/04	71.66	358.30	269.30		75.42	377.10	288.10
2003/01/01	67.26	336.30	247.30		71.02	355.10	266.10
2003/02/05	67.26	336.30	247.30		71.02	355.10	266.10
2003/03/05	70.86	354.30	265.30		74.62	373.10	284.10
2003/04/02	72.46	362.30	273.30		76.22	381.10	292.10
2003/05/07	61.86	309.30	220.30		65.62	328.10	239.10
2003/06/04	55.46	277.30	188.30		59.22	296.10	207.10
2003/07/02	58.86	294.30	205.30		62.62	313.10	224.10

Date	Paraffin Illuminating						
	Coast			Gauteng	Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
2003/08/06	60.86	304.30	215.30		64.62	323.10	234.10
2003/09/03	61.26	306.30	217.30		65.02	325.10	236.10
2003/10/01	59.66	298.30	209.30		63.42	317.10	228.10
2003/11/05	61.58	307.90	218.90		65.34	326.70	237.70
2003/12/03	63.18	315.90	226.90		66.94	334.70	245.70
2004/01/07	62.78	313.90	224.90		66.54	332.70	243.70
2004/02/04	66.18	330.90	241.90		69.94	349.70	260.70
2004/03/03	65.78	328.90	239.90		69.54	347.70	258.70
2004/04/07	64.58	322.90	233.90		68.34	341.70	252.70
2004/05/05	66.18	330.90	241.90		69.94	349.70	260.70
2004/06/02	72.18	360.90	271.90		75.94	379.70	290.70
2004/07/07	70.38	351.90	262.90		74.14	370.70	281.70
2004/08/03	67.38	336.90	247.90		71.14	355.70	266.70
2004/09/01	66.86	334.30	283.90		70.62	353.10	305.90
2004/10/06	72.06	360.30	309.90		75.82	379.10	331.90
2004/11/03	76.86	384.30	333.90		80.62	403.10	355.90
2004/12/01	71.32	356.60	306.20		75.08	375.40	328.20
2005/01/05	62.32	311.60	261.20		66.08	330.40	283.20
2005/02/02	61.52	307.60	257.20		65.28	326.40	279.20
2005/03/02	68.52	342.60	292.20		72.28	361.40	314.20
2005/04/06	78.32	391.60	341.20		82.16	410.80	363.60
2005/05/04	83.52	417.60	367.20		87.36	436.80	389.60
2005/06/01	79.72	398.60	348.20		83.56	417.80	370.60
2005/07/06	86.32	431.60	381.20		90.16	450.80	403.60
2005/08/03	89.32	446.60	396.20		93.16	465.80	418.60
2005/09/07	91.32	456.60	406.20		95.16	475.80	428.60
2005/10/05	91.92	459.60	409.20		95.76	478.80	431.60
2005/11/02	91.72	458.60	408.20		95.56	477.80	430.60
2005/12/07	85.72	428.60	378.20		89.56	447.80	400.60
2006/01/04			376.20	398.60			
2006/02/01			380.20	402.60			
2006/03/01			384.20	402.60			
2006/04/05			389.20	412.20			
2006/05/03			409.20	432.20			
2006/06/07			429.20	452.20			
2006/07/05			465.20	488.20			
2006/08/02			486.20	509.20			
2006/09/06			481.20	504.20			
2006/10/04			459.20	482.20			
2006/11/01			446.20	469.20			
2006/12/06			421.20	444.20			

Date	Paraffin Illuminating						
	Coast			Gauteng	Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
2007/01/03			424.20	447.20			
2007/02/07			398.20	421.20			
2007/03/07			408.20	431.20			
2007/04/04			438.20	462.10			
2007/05/02			456.20	480.10			
2007/06/06			458.20	482.10			
2007/07/04			475.20	499.10			
2007/08/01			482.20	506.10			
2007/09/05			482.20	506.10			
2007/10/03			495.20	519.10			
2007/11/07			505.20	529.10			
2007/12/05			563.20	587.10			
2008/01/02			554.20	578.10			
2008/02/06			556.20	580.10			
2008/03/05			632.20	656.10			
2008/04/02			750.20	774.10			
2008/05/07			805.70	829.60			
2008/06/04			876.70	900.60			
2008/07/02			925.70	949.60			
2008/08/06			929.10	953.00			
2008/09/03			783.10	807.00			
2008/10/01			718.10	742.00			
2008/11/05			679.10	703.00			
2008/12/03			604.10	628.00			
2009/01/07			467.60	496.70			
2009/02/04			453.60	482.70			
2009/03/04			427.60	456.70			
2009/04/01			422.60	451.70			
2009/05/06			435.60	464.70			
2009/06/03			426.60	455.70			
2009/07/01			472.60	501.70			
2009/08/05			458.60	487.70			
2009/09/02			479.60	508.70			
2009/10/07			452.10	481.20			
2009/11/04			466.10	495.20			
2009/12/02			495.10	524.20			
2010/01/06			483.10	512.20			
2010/02/03			488.10	517.20			
2010/03/03			486.10	515.20			
2010/04/07			507.10	536.20			
2010/05/05			538.10	566.20			

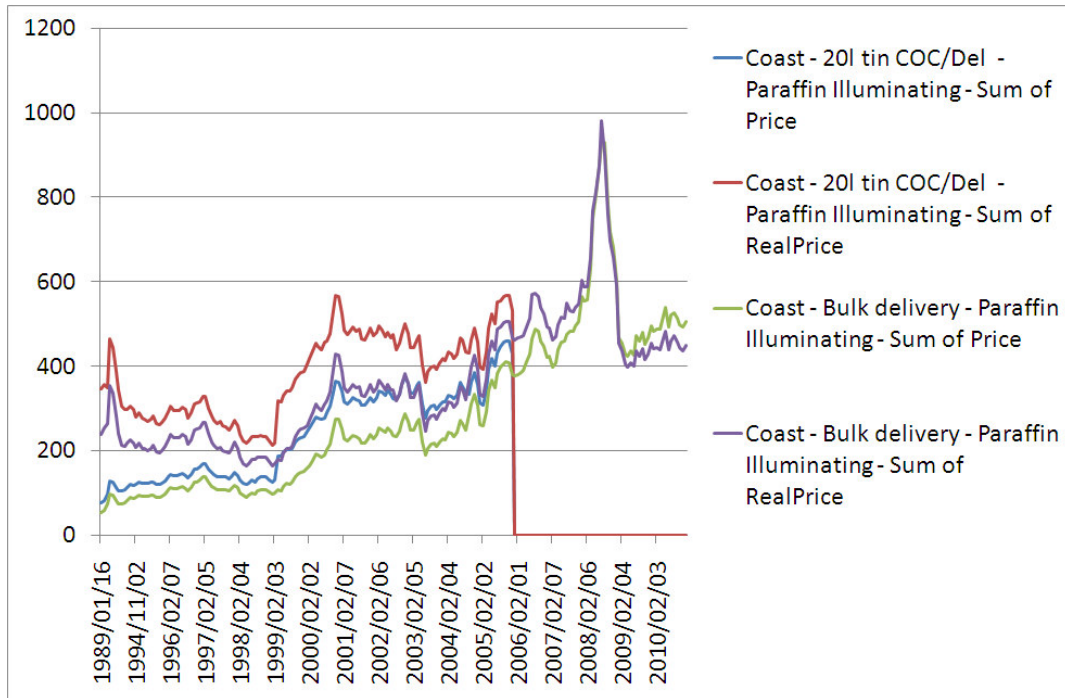
Date	Paraffin Illuminating						
	Coast			Gauteng	Reef		
	20l tin COC/Del		Bulk delivery		20l tin COC/Del		Bulk delivery
	Rand per drum	Cents per litre	Cents per litre	Cents per litre	Rand per drum	Cents per litre	Cents per litre
2010/06/02			525.10	553.20			
2010/07/07			513.10	541.20			
2010/08/04			498.10	526.20			
2010/09/01			493.10	521.20			
2010/10/06			492.10	520.20			
2010/11/03			506.10	534.20			
2010/12/01			520.10	548.20			

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**Explanatory Notes:**

1. COC = Customer Own Collection.
  2. Data was provided by SAPIA and the Department of Minerals and Energy (DME) until 2009
  3. From 2010 the data is supplied by the Department of Energy.
  4. 20l tin data was provided by SAPIA and it was removed from the market in 2006
  5. The bulk prices are list prices and exclude a controlled maximum retail margin of 33.3%.
  6. The prices are exclusive of VAT.
-

The price of illuminating paraffin in bulk and in 20l tin is shown in Figure 2.11. During the late 80's the coast price of 20l paraffin tin was slightly higher than the illuminating paraffin sold in bulk. The price of 20l paraffin tin is increasing at a faster rate than the price of illuminating paraffin sold in bulk. The price of both 20l tin and bulk illuminating paraffin were heavily affected by the 1990 oil price shock after Iraqi invasion of Kuwait (Verleger, 1990). In 2005 20l illuminating paraffin was discontinued. From that period the price of illuminating paraffin sold in bulk continued to increase year by year until the highest increase of 58 % from 2007 to 2008. During the early 2009 the prices decreased drastically and started to peak up towards the end of the year. There has been a steady increase ever since. The Department of Energy has regulated the maximum retail price for illuminating paraffin, excluding the price of any form of packaging since January 2010.



**Figure 2.11: Monthly illuminating paraffin price - real prices for 2008 base year (coast) - cents per litre (c/l)**

## 2.2.5 Power paraffin

The outline of the nominal price of power paraffin from both the coast and the reef is presented in Table 2.11. The data is from 1981 to 2003. The product has been discontinued since 2003.

**Table 2.11: Monthly power paraffin price - cents per litre (c/l)**

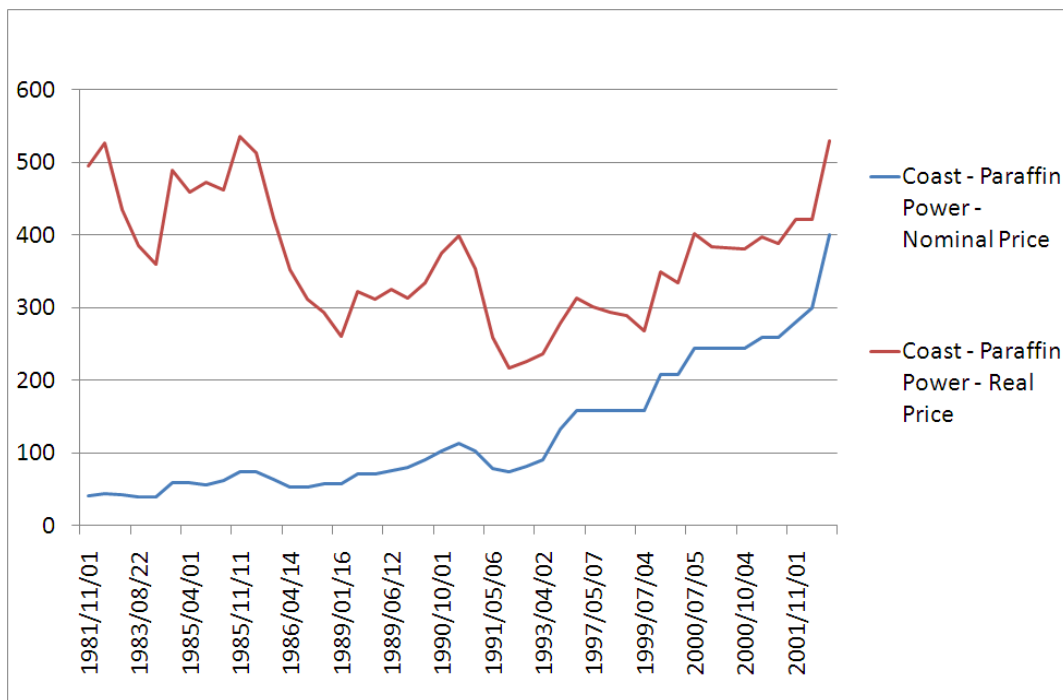
Date	Paraffin Power		Date	Paraffin Power	
	Coast	Reef		Coast	Reef
1981/11/01	41.01	43.81	1991/03/25	103.00	112.50
1982/01/04	43.71	47.11	1991/05/06	78.00	87.50
1983/02/28	42.21	45.61	1992/03/21	73.00	83.60
1983/08/22	39.21	42.61	1992/10/15	81.00	91.60
1984/04/01	39.21	43.61	1993/04/02	90.00	101.90
1985/01/24	58.21	62.91	1996/05/08	133.00	144.90
1985/04/01	58.21	63.31	1996/12/09	158.00	169.90
1985/07/15	56.21	61.31	1997/05/07	158.00	169.90
1985/09/09	61.81	66.61	1997/10/01	158.00	169.90
1985/11/11	73.91	78.71	1998/03/01	158.00	169.90
1986/01/01	73.91	79.41	1999/07/04	158.00	172.90
1986/03/03	62.51	68.01	1999/10/01	208.00	223.00
1986/04/14	52.71	58.21	2000/06/07	208.00	223.00
1987/07/01	52.30	58.40	2000/07/05	243.00	258.00
1988/02/01	56.50	62.60	2000/08/02	243.00	258.00
1989/01/16	56.50	63.10	2000/09/06	243.00	258.00
1989/02/06	70.50	77.10	2000/10/04	243.00	258.00
1989/04/01	70.50	77.60	2001/01/01	258.00	288.00
1989/06/12	75.00	82.10	2001/06/01	258.00	288.00
1990/02/01	79.00	87.20	2001/11/01	280.00	310.00
1990/09/04	91.00	99.20	2002/05/01	300.00	330.00
1990/10/01	103.00	111.20	2003/11/05	400.00	430.00
1990/12/10	113.00	121.20			

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### Explanatory Notes:

1. Data was provided by SAPIA.
  2. The real price was calculated by using the monthly CPI with 2008 = 100.
  3. The prices are exclusive of VAT.
  4. The product has been discontinued since 2003
-

The historical prices of power paraffin from the coast are outlined in Figure 2.12. These prices were high in the early 80's compared to the following years as shown in the figure. The price dropped gradually in 1982 until 1985 when they increased again. This price increase was after the 1985 oil crisis which followed another oil crisis in the 70's. In 1986 the prices started to decrease slightly until they picked up again in 1991, which was most likely be the effect of Gulf war that took place in 1990/1991. From then the price of power paraffin has increased year after year relative to a continuous increase in oil price. Another price increase relative to the oil price was between 2002 and 2003.



**Figure 2.12: Monthly power paraffin prices (coast) - real prices for 2008 base year - cents per litre (c/l)**

## 2.2.6 Liquid petroleum gas

The refinery gate prices of Liquid Petroleum Gas (LPG) from 2002 to 2010 are shown in Table 2.12. These prices are presented in different units including cents per kilogram, cents per litre, rand per gigajoule, rand per kilogram and rand per ton.

**Table 2.12: Monthly regulated maximum refinery gate price for liquefied petroleum gas (LPG)**

Date	Liquefied Price Gas (LPG)				
	Cents per kilogram	Cents per litre	Rand per GigaJoule	Rand per kilogram	Rand per ton
2002/07/01	262.13	145.48	53.02	2.62	2621.31
2002/08/01	282.68	156.89	57.17	2.83	2826.82
2002/09/01	293.43	162.86	59.35	2.93	2934.35
2002/10/01	294.70	163.56	59.60	2.95	2947.05
2002/11/01	272.90	151.46	55.19	2.73	2729.01
2002/12/01	245.60	136.31	49.67	2.46	2456.00
2003/01/01	256.21	142.20	51.82	2.56	2562.09
2003/02/01	285.32	158.35	57.71	2.85	2853.18
2003/03/01	275.13	152.69	55.64	2.75	2751.26
2003/04/01	249.71	138.59	50.50	2.50	2497.15
2003/05/01	202.61	112.45	40.98	2.03	2026.15
2003/06/01	236.19	131.09	47.77	2.36	2361.92
2003/07/01	234.88	130.36	47.50	2.35	2348.83
2003/08/01	242.72	134.71	49.09	2.43	2427.17
2003/09/01	222.37	123.41	44.97	2.22	2223.68
2003/10/01	215.31	119.50	43.55	2.15	2153.15
2003/11/01	208.87	115.92	42.24	2.09	2088.72
2003/12/01	207.35	115.08	41.94	2.07	2073.55
2004/01/01	248.79	138.08	50.32	2.49	2487.93
2004/02/01	240.62	133.54	48.66	2.41	2406.19
2004/03/01	258.76	143.61	52.33	2.59	2587.61
2004/04/01	259.87	144.23	52.56	2.60	2598.71
2004/05/01	311.73	173.01	63.05	3.12	3117.35
2004/06/01	270.02	149.86	54.61	2.70	2700.25
2004/07/01	256.53	142.37	51.88	2.56	2565.32
2004/08/01	288.48	160.11	58.34	2.88	2884.80
2004/09/01	288.51	160.12	58.35	2.88	2885.13
2004/10/01	311.53	172.90	63.01	3.11	3115.28
2004/11/01	282.91	157.02	57.22	2.83	2829.14
2004/12/01	234.41	130.10	47.41	2.34	2344.14
2005/01/01	248.90	138.14	50.34	2.49	2489.05
2005/02/01	286.35	158.92	57.91	2.86	2863.49
2005/03/01	317.72	176.34	64.26	3.18	3177.23
2005/04/01	340.90	189.20	68.95	3.41	3409.05

Date	Liquefied Price Gas (LPG)				
	Cents per kilogram	Cents per litre	Rand per GigaJoule	Rand per kilogram	Rand per ton
2005/05/01	312.92	173.67	63.29	3.13	3129.20
2005/06/01	364.12	202.08	73.64	3.64	3641.16
2005/07/01	389.62	216.24	78.80	3.90	3896.22
2005/08/01	429.12	238.16	86.79	4.29	4291.23
2005/09/01	442.68	245.69	89.53	4.43	4426.85
2005/10/01	402.77	223.54	81.46	4.03	4027.68
2005/11/01	362.28	201.07	73.27	3.62	3622.84
2005/12/01	357.84	198.60	72.37	3.58	3578.44
2006/01/01	369.85	205.27	149.61	3.70	3698.50
2006/02/01	352.34	195.55	142.53	3.52	3523.42
2006/03/01	395.64	219.58	160.05	3.96	3956.44
2006/04/01	436.88	242.47	176.73	4.37	4368.78
2006/05/01	481.25	267.09	194.67	4.81	4812.47
2006/06/01	518.49	287.76	209.73	5.18	5184.86
2006/07/01	560.85	311.27	226.87	5.61	5608.46
2006/08/01	512.24	284.29	207.21	5.12	5122.37
2006/09/01	438.99	243.64	177.58	4.39	4389.92
2006/10/01	431.72	239.60	174.63	4.32	4317.15
2006/11/01	414.30	229.94	167.59	4.14	4143.03
2006/12/01	422.50	234.49	170.91	4.23	4225.02
2007/01/01	387.83	215.25	156.89	3.88	3878.34
2007/02/01	427.20	237.09	172.81	4.27	4272.00
2007/03/01	495.33	274.91	200.37	4.95	4953.32
2007/04/01	530.06	294.18	214.41	5.30	5300.61
2007/05/01	565.79	314.01	228.87	5.66	5657.85
2007/06/01	557.50	309.41	225.51	5.58	5575.00
2007/07/01	543.76	301.79	219.95	5.44	5437.59
2007/08/01	514.02	285.28	207.93	5.14	5140.23
2007/09/01	529.75	294.01	214.29	5.30	5297.52
2007/10/01	527.73	292.89	213.47	5.28	5277.30
2007/11/01	586.91	325.73	237.41	5.87	5869.08
2007/12/01	578.45	321.04	233.99	5.78	5784.46
2008/01/01	612.16	339.75	247.63	6.12	6121.61
2008/02/01	689.78	382.82	279.03	6.90	6897.77
2008/03/01	756.74	419.99	306.11	7.57	7567.43
2008/04/01	756.81	420.02	153.06	7.57	7568.07
2008/05/01	788.60	437.67	319.00	7.89	7885.97
2008/06/01	849.07	471.24	343.46	8.49	8490.73
2008/07/01	946.61	525.37	382.92	9.47	9466.13
2008/08/01	904.16	501.81	365.75	9.04	9041.62
2008/09/01	789.15	437.98	319.22	7.89	7891.48
2008/10/01	761.67	422.73	308.11	7.62	7616.74
2008/11/01	684.30	379.79	276.81	6.84	6843.00

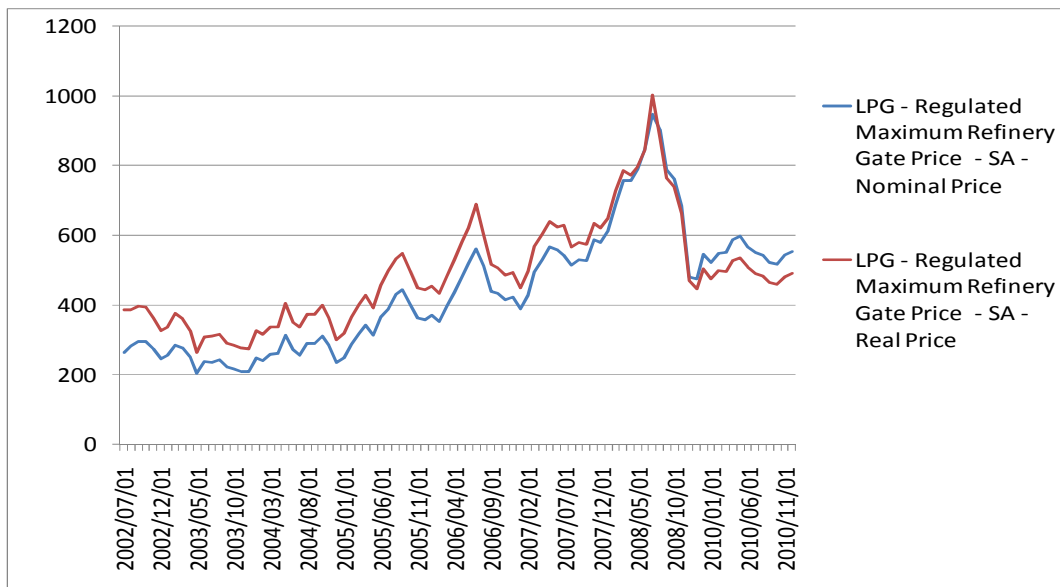
Date	Liquefied Price Gas (LPG)				
	Cents per kilogram	Cents per litre	Rand per GigaJoule	Rand per kilogram	Rand per ton
2008/12/01	480.70	266.79	194.45	4.81	4806.97
2009/01/01	373.97	207.56	75.64	3.74	3739.74
2009/02/01	439.66	244.01	88.93	4.40	4396.58
2009/03/01	473.76	262.94	95.82	4.74	4737.58
2009/04/01	473.81	262.96	95.83	4.74	4812.06
2009/05/01	475.89	264.12	96.26	4.76	4758.95
2009/06/01	492.11	273.12	99.54	4.92	4995.13
2009/07/01	545.75	302.89	110.39	5.46	5457.53
2009/08/01	507.72	281.79	102.69	5.08	5077.22
2009/09/01	566.98	314.68	114.68	5.67	5669.84
2009/10/01	493.70	274.00	99.86	4.94	4936.95
2009/11/01	510.38	283.26	103.23	5.10	5103.85
2009/12/01	534.95	296.90	108.20	5.35	5349.53
2010/01/01	520.57	288.92	105.29	5.21	5205.70
2010/02/01	548.47	304.40	110.94	5.48	5484.74
2010/03/01	550.82	305.71	111.41	5.51	5508.21
2010/04/01	586.72	325.63	271.75	5.87	5867.21
2010/05/01	597.13	331.41	120.78	5.97	5971.28
2010/06/01	566.06	314.16	114.49	5.66	5660.60
2010/07/01	549.45	304.94	111.13	5.49	5494.46
2010/08/01	541.57	300.57	109.54	5.42	5415.68
2010/09/01	521.87	289.64	105.56	5.22	5218.72
2010/10/01	516.70	286.77	104.51	5.17	5166.97
2010/11/01	541.42	300.49	109.51	5.41	5414.20
2010/12/01	553.87	307.40	112.03	5.54	5538.71

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**Explanatory Notes:**

1. Prices are for the Regulated Maximum Refinery Gate Price
  2. Data was provided by CEF Pty Ltd
-

The real and nominal price of liquefied petroleum gas from 2002 to 2010 is shown in Figure 2.13. The LPG price grew at a steady pace until 2005. In that year (2005) the LPG price was 50% more than it was in 2003. Another substantial price increase was in 2006 which recorded a 25% increase from 2005. In 2008 the LPG price reached an all time high compared to the years under review. The South African power crises contributed to the increase in LPG prices as many people switched to the use of LPG from electricity for heating and cooking purposes. The price dropped late in 2008 and has been lower since then. During 2010 the government decided to regulate the maximum price of LPG. It was regulated with effect from 14 July 2010 and the maximum price is published by the Department of Energy on the first Wednesday of every month.



**Figure 2.13: Monthly liquefied petroleum gas - regulated maximum refinery gate prices - real prices for 2008 base year (coast) - cents per kilogram (c/kg)**

## 2.2.7 Heavy furnace oil

The coast and the reef price of heavy furnace oil collected from 1982 to 2008 are shown in Table 2.13. These data is for customer own collection, rail tank car and bulk delivery. From 2008 heavy furnace oil was no longer regulated.

**Table 2.13: Monthly heavy furnace oil (HFO) - cents per litre (c/l)**

Date	Heavy Furnace Oil (HFO)			
	Coast			Reef
	Customer Own Collection (COC)	Rail Tank Car (RTC)	Bulk delivery	Bulk delivery
1982/04/01	22.84	22.24	23.24	
1983/01/01	24.84	24.24	25.24	
1983/09/01	23.84	23.14	24.24	
1984/04/01	23.84	23.14	24.24	
1984/07/16	25.44	24.64	25.94	
1984/09/17	29.44	28.64	29.94	
1985/01/24	44.34	43.54	44.84	
1985/04/01	43.34	42.54	43.84	
1985/07/15	39.84	39.04	46.34	
1985/11/11	45.84	45.04	38.34	
1986/03/03	37.84	37.04	38.34	
1986/04/14	33.84	33.04	34.34	
1987/07/01	33.36	32.86	33.66	40.26
1987/10/01	33.36	32.86	33.66	40.96
1989/01/16	33.36	32.86	33.66	41.46
1989/04/01	33.36	32.86	33.66	41.86
1989/06/12	33.66	33.06	34.06	42.26
1989/07/31	37.66	37.06	38.06	46.26
1990/02/01	40.66	40.06	41.06	50.66
1990/09/04	50.66	49.96	51.06	60.66
1990/10/01	54.66	53.96	55.06	64.66
1991/03/25	44.66	43.96	45.06	55.66
1991/06/06	39.66	38.96	40.06	50.66
1992/03/21	37.66	36.96	38.06	49.66
1992/07/01	41.46	40.56	42.06	53.66
1992/10/15	49.56	48.56	50.06	61.66
1993/04/02	49.46	48.46	50.06	61.66
1993/09/15	49.56	48.56	50.06	61.66
1994/01/03	46.56	45.46	47.06	60.26
1994/04/01	46.56	45.46	47.06	61.36
1994/06/27	52.56	51.46	53.06	67.36
1995/02/01	57.56	56.46	58.06	73.96
1995/05/15	62.56	61.46	63.06	78.96
1996/06/01	74.36	72.96	75.06	92.56

Date	Heavy Furnace Oil (HFO)			
	Coast			Reef
	Customer Own Collection (COC)	Rail Tank Car (RTC)	Bulk delivery	Bulk delivery
1996/12/01	83.65	82.25	84.35	101.85
1997/04/16	75.65	74.25	76.35	95.35
1997/10/01	75.65	74.25	76.35	95.35
1998/03/06	64.45	63.05	65.35	84.35
1998/09/02	76.45	75.05	77.35	96.35
1999/07/01	84.25	82.15	84.95	107.05
1999/09/01	84.25	82.15	84.95	107.15
1999/11/01	104.25	102.15	104.95	127.15
1999/12/01	114.25	112.15	114.95	137.15
2000/02/01	120.25	118.15	120.95	143.15
2000/04/01	135.25	133.15	135.95	158.15
2000/06/07	145.25	143.15	145.95	168.15
2000/10/03	145.25	143.15	145.95	168.15
2000/11/01	155.25	153.15	155.95	178.15
2001/01/03	140.25	138.15	140.95	163.15
2001/02/07	120.25	118.15	120.95	143.15
2001/04/04	127.25	125.15	127.95	150.15
2001/05/02	132.25	130.15	132.95	155.15
2001/06/02	154.10	152.00	154.80	177.00
2001/08/01	149.10	147.00	149.80	172.00
2001/10/03	159.10	157.00	159.80	182.00
2001/12/05	152.10	150.00	152.80	175.00
2002/01/02	167.10	165.00	167.80	190.00
2002/04/03	185.10	183.00	185.80	208.00
2002/05/01	192.10	190.00	192.80	215.00
2002/07/01	187.10	185.00	187.80	210.00
2002/09/01	201.10	199.00	201.80	224.00
2002/10/01	209.10	207.00	209.80	232.00
2002/11/01	199.10	197.00	199.80	222.00
2002/12/01	182.10	180.00	182.80	205.00
2003/02/01	197.10	195.00	197.80	220.00
2003/03/01	207.10	205.00	207.80	230.00
2003/05/01	174.10	172.00	174.80	197.00
2003/06/01	166.10	164.00	166.80	189.00
2003/08/01	176.10	174.00	176.80	199.00
2003/09/01	170.10	168.00	170.80	193.00
2003/10/01	165.10	163.00	165.80	188.00
2003/12/01	158.10	156.00	158.80	181.00
2004/02/01	165.10	163.00	165.80	188.00
2004/03/01	163.10	161.00	163.80	186.00
2004/06/01	173.10	171.00	173.80	196.00
2004/07/01	163.10	161.00	163.80	186.00

Date	Heavy Furnace Oil (HFO)			
	Coast			Reef
	Customer Own Collection (COC)	Rail Tank Car (RTC)	Bulk delivery	Bulk delivery
2004/08/01	158.10	156.00	158.80	181.00
2004/09/01	163.10	161.00	163.80	186.00
2004/11/01	173.10	171.00	173.80	196.00
2004/12/01	165.10	163.00	165.80	188.00
2005/01/01	144.40	142.00	146.00	168.00
2005/02/01	149.40	147.00	151.00	173.00
2005/03/01	159.40	157.00	161.00	183.00
2005/04/01	189.40	187.00	191.00	213.00
2005/05/01	199.40	197.00	201.00	223.00
2005/06/01	199.40	197.00	201.00	223.00
2005/07/01	219.40	217.00	221.00	243.00
2005/08/01	219.40	217.00	221.00	243.00
2005/09/01	219.40	217.00	221.00	243.00
2005/10/01	239.40	237.00	241.00	263.00
2005/11/01	251.40	249.00	253.00	275.00
2005/12/01	241.40	239.00	243.00	265.00
2006/01/01	231.40	229.00	233.00	255.00
2006/02/01	231.40	229.00	233.00	255.00
2006/03/01	236.40	234.00	238.00	260.00
2006/04/01	256.40	254.00	258.00	280.00
2006/05/01	261.40	259.00	263.00	285.00
2006/06/01	261.40	259.00	263.00	285.00
2006/07/01	273.40	271.00	275.00	297.00
2006/08/01	288.00	286.00	290.00	312.00
2006/09/01	283.00	281.00	285.00	307.00
2006/10/01	258.00	256.00	260.00	282.00
2006/11/01	253.00	251.00	255.00	277.00
2006/12/01	243.00	241.00	245.00	257.00
2007/01/01	243.00	241.00	245.00	257.00
2007/02/01	238.00	236.00	240.00	262.00
2007/03/01	248.00	246.00	250.00	272.00
2007/04/01	261.00	259.00	263.00	285.00
2007/05/01	283.00	281.00	285.00	307.00
2007/06/01	283.00	281.00	385.00	307.00
2007/07/01	293.00	291.00	295.00	317.00
2007/08/01	305.00	303.00	307.00	329.00
2007/09/01	313.00	311.00	315.00	337.00
2007/10/01	318.00	316.00	320.00	342.00
2007/11/01	331.00	329.00	333.00	355.00
2007/12/01	372.00	370.00	370.00	396.00
2008/01/01	364.00	362.00	366.00	388.00
2008/02/01	368.00	366.00	370.00	392.00

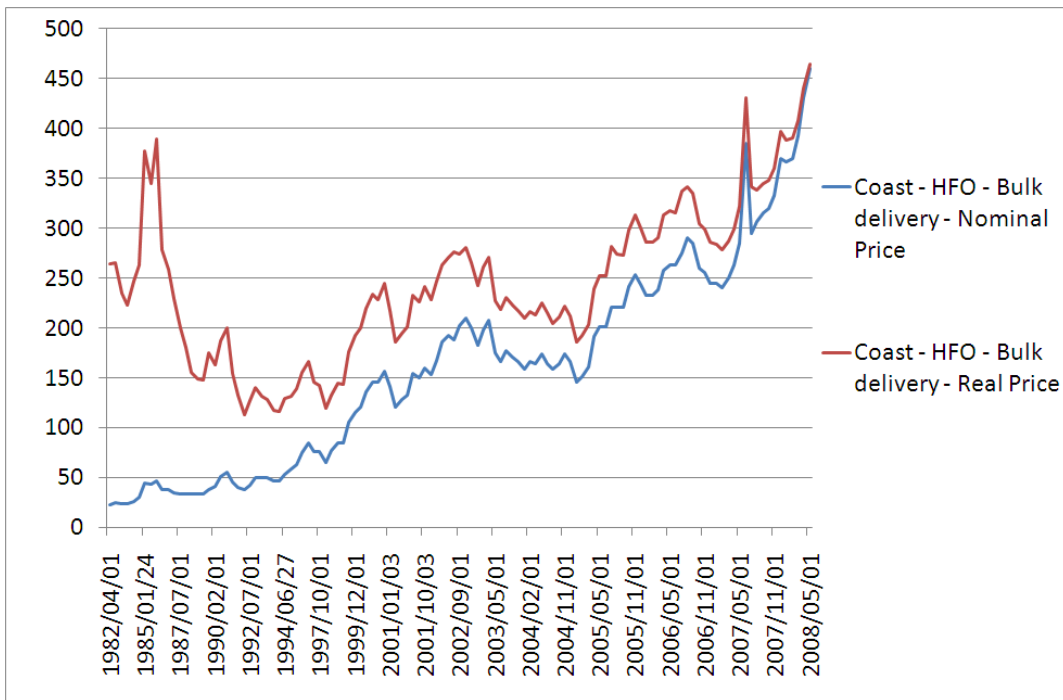
Date	Heavy Furnace Oil (HFO)			
	Coast			Reef
	Customer Own Collection (COC)	Rail Tank Car (RTC)	Bulk delivery	Bulk delivery
2008/03/01	390.00	388.00	392.00	414.00
2008/04/01	429.00	427.00	431.00	453.00
2008/05/01	258.00	454.00	460.00	482.00

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**Explanatory Notes:**

1. Prices are exclusive of VAT.
  2. Data was provided by SAPIA
  3. Product price is no longer regulated
-

The coast price of heavy furnace oil sold in bulk is analysed in Figure 2.14. In the early 80's the nominal price of heavy furnace oil was around 23 cents per litre. The price increased significantly between 1985-1986 compared to the early 80's. From then the price showed a sharp increase in 1985 recording 43 cents per litre on average from an average of 27 cents per litre in the previous year. Then the price dropped again during 1987. Since then there has been a steady increase until a sharp increase in 2007 recording around an average of 3 rand a litre. In that same period the prices went down shortly after the price increase. Since then the price has increased significantly.



**Figure 2.14: Monthly heavy furnace oil - real prices for 2008 base year (coast) - cents per litre (c/l)**

## 2.3 Natural/Sasol gas

The historical Sasol gas tariffs from as early as 1981 to 2010 is outlined in Table 2.14. These tariffs are divided into tariff A, tariff B, tariff D, tariff E and tariff F and tariff G.

**Table 2.14: Annual Sasol gas tariffs - Rand per gigajoule(R/GJ)**

Date	Gas SASOL					
	Tariff A	Tariff B	Tariff D	Tariff E	Tariff F	Tariff G
1981/02/23	292.50	312.50	372.50	412.50	462.50	542.50
1981/04/27	298.50	318.50	378.50	418.50	468.50	548.50
1981/06/29	322.00	345.00	415.00	460.00	520.00	610.00
1982/02/22	336.50	359.50	429.00	474.50	534.50	624.50
1982/04/26	346.60	368.50	438.50	483.50	543.50	633.50
1982/06/28	375.00	402.00	490.00	545.00	615.00	720.00
1983/01/24	387.00	414.00	502.00	557.00	627.00	732.00
1983/04/25	396.00	423.00	511.00	566.00	636.00	741.00
1984/07/01	435.00	465.00	561.00	622.00	700.00	815.00
1985/04/29	458.00	488.00	584.00	645.00	723.00	838.00
1985/07/01	490.00	524.00	632.00	700.00	788.00	918.00
1986/01/27	501.00	535.00	643.00	711.00	799.00	929.00
1986/04/28	541.00	575.00	683.00	751.00	839.00	969.00
1987/04/27	571.00	605.00	713.00	781.00	869.00	999.00
1987/06/29	571.00	608.00	738.00	821.00	927.00	1082.00
1987/07/27	584.00	621.00	751.00	834.00	940.00	1095.00
1988/04/25	618.00	655.00	785.00	868.00	974.00	1129.00
1988/06/27	630.00	673.00	825.00	922.00	1047.00	1230.00
1988/12/27	639.00	682.00	834.00	931.00	1056.00	1239.00
1989/04/24	668.00	711.00	863.00	960.00	1085.00	1268.00
1989/06/26	697.00	751.00	936.00	1053.00	1205.00	1425.00
1990/01/26	719.00	773.00	958.00	1075.00	1227.00	1447.00
1990/04/26	771.00	828.00	1013.00	1130.00	1282.00	1502.00
1990/06/26	800.00	865.00	1095.00	1257.00	1490.00	1871.00
1990/12/27	865.00	939.00	1211.00	1412.00	1708.00	2200.00
1991/06/26	917.00	995.00	1284.00	1497.00	1810.00	2332.00
1991/12/27	1069.00	1161.00	1526.00	1779.00	2190.00	2822.00
1992/12/28	1089.00	1182.00	1526.00	1779.00	2190.00	2822.00
1994/01/26	1187.01	1288.38	1663.34	1939.11	2387.10	3075.98
1994/12/27	1235.00					3199.00
1996/01/26	1303.00					3375.00
1996/09/26	1433.00					3713.00
1997/07/01	1973.00					4305.00
1997/08/01	1954.74					4296.00
1997/09/01	2079.88					4475.00

Date	Gas SASOL					
	Tariff A	Tariff B	Tariff D	Tariff E	Tariff F	Tariff G
1997/10/01	2135.91					4448.00
1997/11/01	2148.89					4560.00
1997/12/01	2184.00					4742.00
1998/01/26	2106.00					4552.00
1998/02/01	1828.00					4330.00
1998/03/01	1717.00					4225.00
1998/04/01	1785.00					4108.00
1998/05/01	1945.00					4373.00
1998/06/01	1972.00					4406.00
1998/07/01	1860.00					4348.00
1998/08/01	2177.00					5090.00
1998/09/01	2191.00					5164.00
1998/10/01	2270.00					5221.00
1998/11/01	2299.00					5013.00
1998/12/01	2192.00					4737.00
1999/01/01	2093.00					4774.00
1999/02/01	2162.00					5013.00
1999/03/01	2106.00					4864.00
1999/04/01	2237.00					5073.00
1999/05/01	2412.00					5424.00
1999/06/01	2525.00					5416.00
1999/07/01	2479.00					5388.00
1999/08/01	2630.00					5625.00
1999/09/01	2879.00					5947.00
1999/10/01	2983.00					5999.00
1999/11/01	3119.00					6054.00
1999/12/01	3249.00					6215.00
2000/01/01	3253.00					6419.00
2000/02/01	3141.00					6428.00
2000/03/01	3322.00					6761.00
2000/04/01	3865.52					7392.00
2000/05/01	3640.38					6882.00
2000/06/01	3945.60					7377.00
2000/07/01	4128.96					7564.00
2000/08/01	3839.93					7552.00
2000/09/01	3692.84					7829.00
2000/10/01	4324.92					8939.00
2000/11/01	4565.59					9193.00
2000/12/01	4577.63					9117.00
2001/01/01	4082.07					8423.00
2001/02/01	3842.63					8060.00
2001/03/01	4088.63					8312.00
2001/04/01	4126.40					8205.00
2001/05/01	4248.11					8607.00

Date	Gas SASOL					
	Tariff A	Tariff B	Tariff D	Tariff E	Tariff F	Tariff G
2001/06/01	4421.39					8671.00
2001/07/01	4285.14					8681.00
2001/08/01	4089.55					8546.00
2001/09/01	4424.46					8753.00
2001/10/01	4753.26					9378.00
2001/11/01	4714.56					9397.00
2001/12/01	4336.48					9145.00
2002/01/01	5191.46					10588.00
2002/02/01	5458.52					11287.00
2002/03/01	5494.16					11035.00
2002/04/01	5823.45					11393.00
2002/05/01	6051.01					11631.00
2002/06/01	5657.47					10689.00
2002/07/01	5467.98					10342.00
2002/08/01	5583.75					10462.00
2002/09/01	6025.83					11308.00
2002/10/01	6298.02					11818.00
2002/11/01	6079.46					11761.00
2002/12/01	5255.19					10367.00
2003/01/01	5225.90					9940.00
2003/02/01	5391.77					10054.00
2003/03/01	5440.73					10033.00
2003/04/01	5003.91					9608.00
2003/05/01	4408.34					8396.00
2003/06/01	4216.98					7909.00
2003/07/01	4592.93					8461.00
2003/08/01	4583.65					8159.00
2003/09/01	4320.82					8259.00
2003/10/01	4270.03					8208.00
2003/11/01	4082.48					7873.00
2003/12/01	3901.00					7722.00
2004/01/01	3663.00					7368.00
2004/02/01	4053.00					8244.00
2004/03/01	4034.00					7956.00
2004/04/01	3907.00					7844.00
2004/05/01	3886.00					7794.00
2004/06/01	4334.00					8760.00
2004/07/01	4070.00					8123.00
2004/08/01	3815.00					7917.00
2004/09/01	4087.00					8579.00
2004/10/01	4096.00					9037.00
2004/11/01	4340.00					9467.00
2004/12/01	4022.00					8728.00
2005/01/01	3570.00					7645.00

Date	Gas SASOL					
	Tariff A	Tariff B	Tariff D	Tariff E	Tariff F	Tariff G
2005/02/01	3712.00					7919.00
2005/03/01	3983.00					8324.00
2005/04/01	4143.00					8942.00
2005/05/01	4812.00					10054.00
2005/06/01	4853.00					9653.00
2005/07/01	5389.00					11013.00
2005/08/01	5450.00					10998.00
2005/09/01	5414.00					10866.00
2005/10/01	5881.00					11179.00
2005/11/01	5877.00					11459.00
2005/12/01	5926.00					10827.00
2006/01/01	5412.00					10248.00
2006/02/01	5412.00					10459.00
2006/03/01	5735.00					10479.00
2006/04/01	6003.00					10935.00
2006/05/01	5933.00					11188.00
2006/06/01	6100.00					11597.00
2006/07/01	6513.00					13007.00
2006/08/01	6984.00					13567.00
2006/09/01	6686.00					13201.00
2006/10/01	6271.00					13148.00
2006/11/01	6655.00					13229.00
2006/12/01	5985.00					12160.00
2007/01/01	5832.00					12024.00
2007/02/01	5841.00					11679.00
2007/03/01	6231.00					11962.00
2007/04/01	6544.00					12625.00
2007/05/01	6913.00					12916.00
2007/07/01	7200.00					13402.00
2007/08/01	7344.00					13424.00
2007/09/01	7532.00					13612.00
2007/10/01	7712.00					14111.00
2007/11/01	7867.00					13964.00
2007/12/01	8845.00					15270.00
2008/01/01	8632.00					15297.00
2008/02/01	8839.00					15511.00
2008/03/01	9517.00					17295.00
2008/04/01	10444.00					19572.00
2008/05/01	10945.00					20530.00
2008/06/01	11700.00					22135.00
2008/07/01	12692.00					24170.00
2008/08/01	14366.00					25169.00
2008/09/01	12625.00					20751.00
2008/10/01	11980.00					19734.00

Date	Gas SASOL					
	Tariff A	Tariff B	Tariff D	Tariff E	Tariff F	Tariff G
2008/11/01	11313.00					19602.00
2008/12/01	7806.00					17145.00
2009/01/01	7458.00					15234.00
2009/02/01	7517.00					14887.00
2009/03/01	7896.00					14407.00
2009/04/01	7519.00					13818.00
2009/05/01	7746.00					13799.00
2009/06/01	8061.00					13577.00
2009/07/01	8723.00					14526.00
2009/08/01	8667.00					13999.00
2009/09/01	9277.00					14928.00
2009/10/01	8750.00					13812.00
2009/11/01	8621.00					13766.00
2009/12/01	9346.00					14916.00
2010/01/01	9201.00					14407.00
2010/02/01	9541.00					14871.00
2010/03/01	9243.00					14514.00
2010/04/01	9196.00					14757.00
2010/05/01	9359.00					15342.00
2010/06/01	9586.00					15598.00
2010/07/01	8949.00					14902.00
2010/08/01	8924.00					14694.00
2010/09/01	8919.00					14615.00
2010/10/01	8509.00					14219.00
2010/11/01	8657.00					14395.00
2010/12/01	9015.00					14854.00

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**Explanatory Notes:**

This table indicates the price of Sasol gas (previously Gascor).

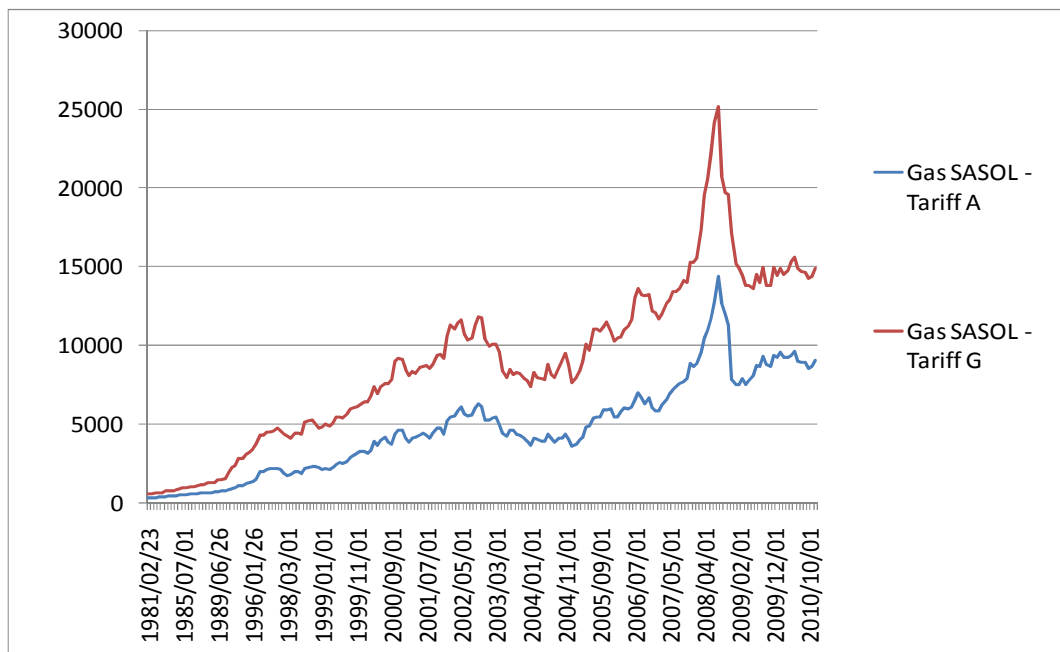
- From 25/01/1994 the tariff structure changed from seven fixed rates to a lower and higher rate with a formula for determining prices between the two extremes.
- The tariffs are as follows:

	Combined load factor (C)	Tariff (R/GJ)
Effective 1994/01/25	90% and more	R 11.87
	40 % and more but less than 90%	$R/GJ = 1560/C ^ 1.084$
	Less than 40%	R 30.76
Effective 1994/12/27	90% and more	R 12.35
	40 % and more but less than 90%	$R/GJ = 1622/C ^ 1.084$
	Less than 40%	R 31.99
Effective 1996/01/26	90% and more	R 13.03
	40 % and more but less than 90%	$R/GJ = 1711/C ^ 1.084$
	Less than 40%	R 33.75
Effective 1996/09/06	90% and more	R 14.33
	40 % and more but less than 90%	$R/GJ = 1882/C ^ 1.084$
	Less than 40%	R 37.13
Effective 1997/07/26	90% and more	R 15.69

	40 % and more but less than 90%	$R/GJ = 2061/C ^ 1.084$
	Less than 40%	R 40.66
Effective 1998/01/26	90% and more	R 17.10
	40 % and more but less than 90%	$R/GJ = 2246/C ^ 1.084$
	Less than 40%	R 44.32

3. During 1998 and 1999 Sasol has progressively been converting their customers to a volume based, market driven pricing structure. Instead of a load factor based sliding scale,
  4. They now have volume based market segmentation with declining block prices and volume categories. The price changes on a monthly basis.
  5. The prices given (as from February 1998) are Sasol's minimum and maximum list prices and do not reflect discounts in the market place.
  6. According to the Regulatory Agreement, in terms of Section 36 of the Gas Bill, Sasol Gas has to comply to the Market Value Pricing principle which are defined as follows:
  7. a). The cost of the alternative fuel delivered to the customer's premises or anticipated place of use (in the case of Greenfields customers) plus;
  8. b). The difference between all the operating costs of the customer's use of the alternative fuel and all the operating costs of using natural gas; plus
  9. c). The difference between the Nett Present Value (NPV) of the capital costs of the customer's continued use of the alternative fuel and the NPV of the capital costs involved in switching to natural gas, as would be reflected in the customer's accounts.
  10. Gas prices are negotiated with customers individually. The prices above are indicative of pipeline gas sold by Sasol Gas
  11. The prices above are exclusive of VAT
  12. The prices above are the list prices of the highest and lowest volume categories and do not reflect discounts in the market place
  13. The abovementioned indicative gas prices are subject to monthly adjustment in accordance with the applicable adjustment formula.
-

Amongst the five different types of gas tariffs provided by Sasol, Figure 2.15 only looks at Gas Tariffs A and Tariff G from 1965 to 2008. During the 60's Sasol Gas tariff A and Sasol Gas Tariff G were increasing around the same rate. The trend changed around 1982 when the gas tariff A grew higher than gas tariff G. There was a steady growth in both Tariff A & G until a higher growth between 2001-2003. From then the tariffs were increasing year after year until a sharp increase in 2008 which was relative to the oil price which is used to calculate these tariffs over time. In 2009 the tariffs dropped as the oil prices dropped world wide and it has been showing a steady increase since.



**Figure 2.15: Monthly Sasol gas tariff - Rand per gigajoule (R/GJ)**

### 3 COAL

About 70% of South Africa's primary energy supply is in the form of coal. Coal consumption has increased significantly over the years to meet South Africa's growing energy demand. This growing demand has in turn also affected the price of coal. The following section provides the price of coal sold locally and export prices. There are prices for different types of coal and their uses.

#### 3.1 Local and export coal prices

The average price of anthracite coal and bituminous coal are shown in Table 3.1. These prices are in nominal and real terms. They are average prices of exports free on board for both anthracite coal and bituminous coal. These prices are given for 1970 to 2009.

**Table 3.1: Annual average local and export coal prices - Rand per ton (R/t)**

Date	Coal Bituminous				Coal Anthracite			
	Average Price Exports (FOB)		Average Price Local Sales (FOR)		Average Price Exports (FOB)		Average Price Local Sales (FOR)	
	Nominal Price	Real Price	Nominal Price	Real Price	Nominal Price	Real Price	Nominal Price	Real Price
1981/01/01	31.60	405.13	11.40	146.15	39.40	505.13	33.80	433.33
1982/01/01	42.70	479.78	12.90	144.94	43.60	489.89	33.90	380.90
1983/01/01	38.40	384.00	12.90	129.00	39.40	394.00	37.50	375.00
1984/01/01	44.40	396.43	14.00	125.00	52.40	467.86	38.20	341.07
1985/01/01	66.51	511.62	15.37	118.23	76.00	584.62	40.81	313.92
1986/01/01	68.31	440.71	17.21	111.03	68.21	440.06	46.03	296.97
1987/01/01	52.55	293.58	19.16	107.04	57.20	319.55	52.54	293.52
1988/01/01	63.29	313.32	21.72	107.52	78.90	390.59	59.37	293.91
1989/01/01	77.57	334.35	27.25	117.46	101.54	437.67	73.24	315.69
1990/01/01	80.38	303.32	30.41	114.75	89.01	335.89	93.81	354.00
1991/01/01	85.96	280.92	33.48	109.41	100.39	328.07	110.01	359.51
1992/01/01	86.57	248.76	37.80	108.62	114.48	328.97	113.33	325.66
1993/01/01	85.08	222.72	38.86	101.73	123.59	323.53	110.36	288.90

Date	Coal Bituminous				Coal Anthracite			
	Average Price Exports (FOB)		Average Price Local Sales (FOR)		Average Price Exports (FOB)		Average Price Local Sales (FOR)	
	Nominal Price	Real Price	Nominal Price	Real Price	Nominal Price	Real Price	Nominal Price	Real Price
1994/01/01	86.42	207.24	39.34	94.34	127.68	306.19	149.40	358.27
1995/01/01	107.30	236.87	42.90	94.70	145.00	320.09	175.30	386.98
1996/01/01	130.42	268.35	45.93	94.51	182.90	376.34	201.14	413.87
1997/01/01	146.03	276.57	47.69	90.32	237.72	450.23	190.62	361.02
1998/01/01	145.75	258.42	51.86	91.95	219.70	389.54	238.88	423.55
1999/01/01	140.69	237.25	52.65	88.79	213.85	360.62	252.93	426.53
2000/01/01	160.01	256.02	56.13	89.81	199.80	319.68	253.18	405.09
2001/01/01	244.33	369.64	62.06	93.89	292.43	442.41	320.09	484.25
2002/01/01	278.65	386.48	73.92	102.52	378.07	524.37	379.55	526.42
2003/01/01	187.66	245.95	77.77	101.93	294.87	386.46	394.32	516.80
2004/01/01	202.09	261.10	74.29	95.98	260.92	337.11	417.25	539.08
2005/01/01	295.58	369.47	84.42	105.52	318.58	398.22	414.33	517.91
2006/01/01	310.42	370.87	85.17	101.76	415.58	496.51	477.17	570.10
2007/01/01	358.83	400.03	105.86	118.02	444.93	496.02	485.67	541.44
2008/01/01	735.64	735.64	150.68	150.68	602.11	602.11	604.24	604.24
2009/01/01	517.91	474.28	171.63	157.17	889.64	814.69	690.36	632.20

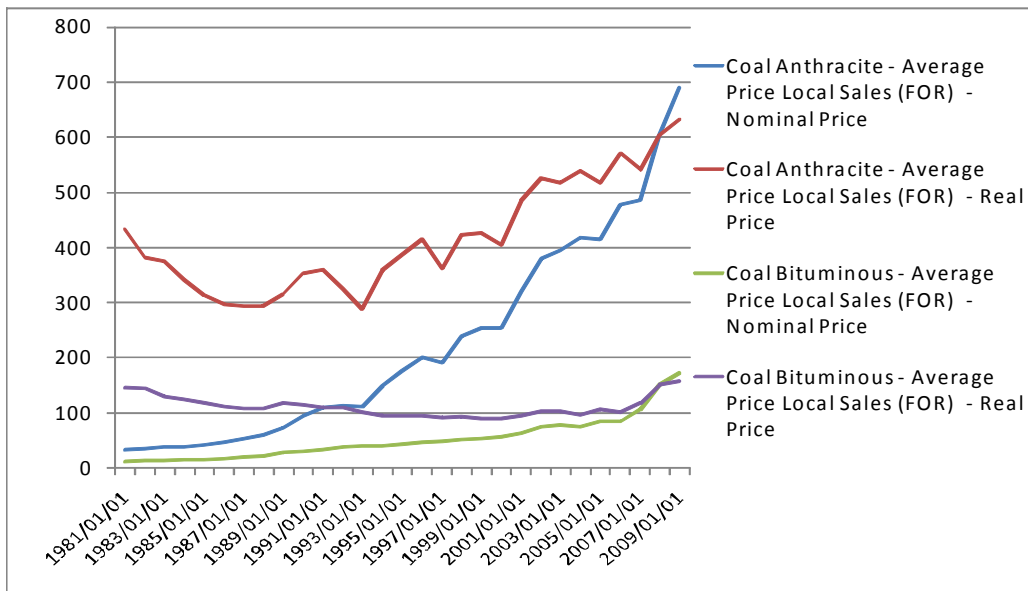
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**Explanatory Notes:**

1. Values for average local and export nominal and real cost prices for bituminous and anthracite are from the Minerals Bureau.
  2. The real price was calculated by using the annual CPI with 2008 = 100.
  3. The prices are exclusive of VAT.
  4. 2002 data - 2 month average
-

Coal dominates South Africa's energy market because it is an abundant source of energy in the country and can be produced relatively cheaply locally compared to importing other sources of energy. The local sales of two types of coal, anthracite and bituminous used in South Africa are analysed in Figure 3.1. The nominal prices of both types of coal sold locally were equal in the early 70's. The prices started to vary around 1974, when anthracite coal price increased in relative value. In that period the nominal prices of both anthracite coal and bituminous coal were increasing but anthracite was increasing at a faster rate than bituminous coal.

During 1991 the price of anthracite coal grew by 17% from 1990 whereas bituminous coal grew by 7% in the same period. During that period the nominal export price of both anthracite coal and bituminous coal grew by 13% and 7% respectively. This shows that the local price of anthracite coal grew faster than the export price of the same commodity. Another noticeable price increase was in 1996 on anthracite coal after a price drop in 1992. Over the 4 year period (1992-1996) the nominal local price of anthracite coal recorded a 77% price increase. From then the price of anthracite coal has been increasing at a faster rate than that of bituminous coal, most likely because anthracite coal is a high quality coal that produces high energy than the bituminous coal.



**Figure 3.1: Annual average local sales (FOB) - real prices for 2008 base year - coal price - Rand per ton (R/t)**

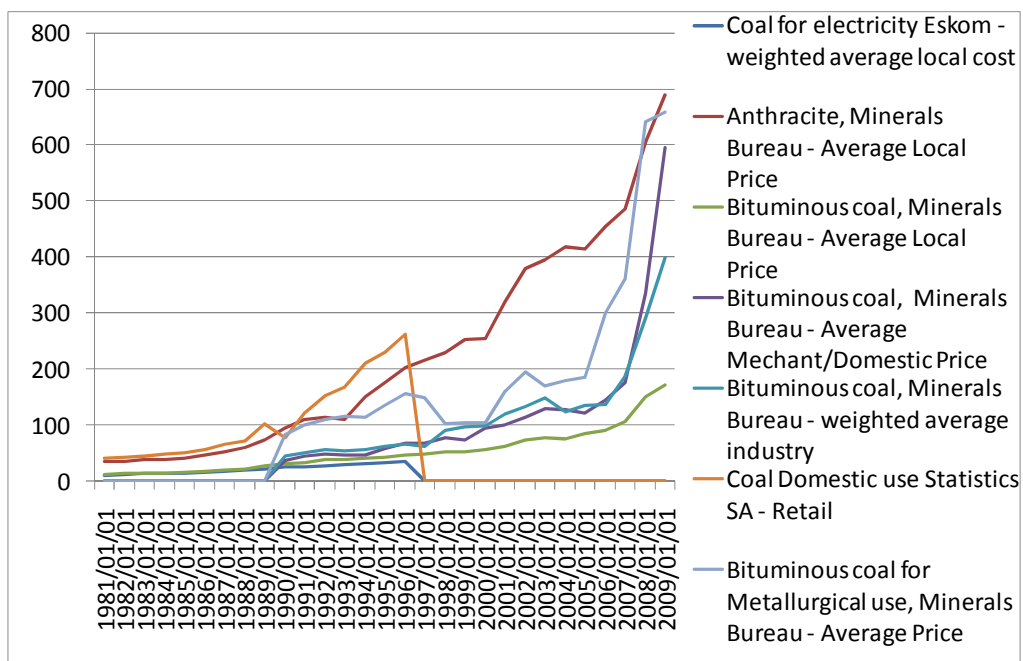
The local average and retail price of coal in the country is presented in Table 3.2. These coal data is shown in different categories according to their use such as coal for electricity used by Eskom, Coal Anthracite Minerals Bureau, Coal Bituminous Minerals Bureau, Coal Domestic use Statistics South Africa, Coal Domestic use Statistics South Africa and Coal Bituminous Metallurgical Minerals Bureau. The data is provided for 1970 to 2009.

**Table 3.2: Annual local coal prices - Rand per ton (R/t)**

Date	Coal for electricity Eskom	Coal Anthracite Minerals Bureau	Coal Bituminous Minerals Bureau			Coal Domestic use Statistics SA	Coal Bituminous Metallurgical Minerals Bureau
	weighted average local cost	Average Local Price	Average Local Price	Average Mechant/Domestic Price	weighted average industry	Retail	Average Price
1981/01/01	9.71	33.80	11.40			41.00	
1982/01/01	11.75	33.90	12.90			42.69	
1983/01/01	12.44	37.50	12.90			43.87	
1984/01/01	12.55	38.20	14.00			47.16	
1985/01/01	13.25	40.81	15.37			49.68	
1986/01/01	14.87	46.03	17.21			55.77	
1987/01/01	17.11	52.54	19.16			64.89	
1988/01/01	18.67	59.37	21.72			70.89	
1989/01/01	20.94	73.24	27.25			101.44	
1990/01/01	23.91	93.81	30.41	36.05	44.59	77.56	82.94
1991/01/01	25.70	110.01	33.48	43.87	50.61	122.11	99.30
1992/01/01	27.47	113.33	37.80	48.02	55.10	151.56	109.31
1993/01/01	28.48	110.36	38.86	45.96	53.72	167.67	114.83
1994/01/01	29.98	149.40	39.34	45.99	56.58	208.86	113.71
1995/01/01	31.99	175.30	42.90	57.23	61.98	230.00	134.86
1996/01/01	35.05	201.14	45.93	66.91	65.43	261.70	155.71

Date	Coal for electricity Eskom	Coal Anthracite Minerals Bureau	Coal Bituminous Minerals Bureau			Coal Domestic use Statistics SA	Coal Bituminous Metallurgical Minerals Bureau
	weighted average local cost	Average Local Price	Average Local Price	Average Mechant/Domestic Price	weighted average industry	Retail	Average Price
1997/01/01		216.40	48.31	67.47	60.59		147.28
1998/01/01		228.57	51.71	77.73	90.17		101.82
1999/01/01		252.93	52.65	73.01	96.21		104.24
2000/01/01		253.18	56.13	94.54	97.92		103.13
2001/01/01		320.09	62.06	99.12	118.77		159.85
2002/01/01		379.55	73.92	114.33	132.37		193.87
2003/01/01		394.32	77.77	129.77	149.09		170.23
2004/01/01		417.25	74.29	127.00	124.00		179.00
2005/01/01		414.33	84.42	122.00	134.00		185.00
2006/01/01		455.30	90.06	144.29	137.35		299.80
2007/01/01		485.67	105.86	174.39	187.02		359.31
2008/01/01		604.24	150.68	334.43	291.58		641.60
2009/01/01		690.36	171.63	594.92	398.96		659.35

Coal prices are reported by Eskom, Department of Mineral Resources (previously the Minerals Bureau) and Statistics South Africa. Historical prices are given in Figure 3.2. The price of coal depends on its specifications and what it is used for. The following are the uses of coal: Anthracite is the most expensive coal with the highest energy content and it is used in applications where low smoke and low ash are desired, bituminous coal also has energy content but lower quality than anthracite, high quality bituminous coal is used in metallurgy whereas lower quality bituminous coal is used in transformation (electricity). The prices of all coals have been increasing exponentially.



**Figure 3.2: Annual local coal prices (nominal) - Rand per ton (R/t)**

## 4 ELECTRICITY

Eskom is the main generator of electricity in South Africa. The revenue generated by Eskom per kwh for various customer categories from different uses are shown in Table 4.1. These prices vary according to their uses and the demand thereof. The data for commercial uses, industrial uses and commercial uses are published per province and given from 1981 to 2009.

**Table 4.1: Annual electricity Eskom revenue by customer category (nominal price) - cents per kilowatt per hour (c/ kWh)**

Date	Average	Bulk	Domestic and Street Lighting	Commercial	Industrial	International	Eskom Mining	Rural / Farming	Traction
1981/01/01	2.28	2.27	4.73		2.28		2.08		2.99
1982/01/01	2.80	2.81	5.42		2.83		2.54		3.65
1983/01/01	3.36	3.37	6.23		3.38		3.05		4.55
1984/01/01	3.58	3.59	6.66		3.60		3.27		4.70
1985/01/01	4.12	4.12	7.51		4.12		3.79		5.37
1986/01/01	4.98	4.87	9.20		5.03		4.72		6.24
1987/01/01	5.75	5.58	10.95		5.47		5.54	10.44	7.61
1988/01/01	6.29	6.12	11.86	10.91	5.88		6.03	11.67	8.18
1989/01/01	6.90	6.69	12.32	11.22	6.47		6.67	12.60	9.08
1990/01/01	7.88	7.65	14.51	12.80	7.33		7.59	14.49	10.41
1991/01/01	8.47	8.25	15.78	14.28	7.78		8.13	15.86	11.42
1992/01/01	9.16	8.98	15.27	15.57	8.17	8.63	8.79	17.14	12.44
1993/01/01	10.14	9.49	12.68	16.46	8.35	7.65	9.52	19.84	13.70
1994/01/01	10.26	10.18	16.76	17.43	8.91	7.88	10.11	21.13	14.31
1995/01/01	11.15	10.77	18.15	18.65	10.40	6.93	10.62	21.99	14.65
1996/01/01	11.30	11.10	19.45	19.49	10.10	6.80	11.02	23.39	15.31
1997/01/01	11.85	11.41	21.33	20.23	10.78	7.69	11.66	24.66	15.04
1998/01/01	12.29	11.63	22.74	18.85	11.02	8.04	12.22	26.42	14.90
1999/01/01	12.44	11.85	25.36	22.27	10.56	8.54	12.61	26.58	15.19

Date	Average	Bulk	Domestic and Street Lighting	Commercial	Industrial	International	Eskom Mining	Rural / Farming	Traction
2000/01/01	13.23	12.20	27.70	22.64	11.94	10.42	12.91	28.88	15.35
2001/01/01	13.76	12.91	30.90	17.95	11.56	11.47	13.35	26.85	15.69
2002/01/01	14.98	14.09	33.43	19.51	12.88	14.44	14.14	26.47	17.15
2003/01/01	16.05	15.25	36.58	20.62	14.16	9.55	15.07	29.14	18.98
2004/01/01	16.04	15.19	38.70	21.88	13.97	8.63	15.36	30.83	19.37
2006/01/01	17.05	16.13	40.08	22.69	14.75	9.83	16.19	32.86	20.25
2007/01/01	22.26	12.69	44.56	24.85	17.28	14.17	17.99	35.91	23.31
2008/01/01	46.62	43.50	49.88	59.02	20.25	34.46	21.59	85.48	49.62
2009/01/01	59.76	57.58	59.74	76.52	25.24	41.96	28.24	110.10	71.38

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**Explanatory Notes:**

1. The data in this table is from various Eskom Statistical Yearbooks and Annual Reports.
  2. The price data in this table is only applicable to Eskom's direct sales to the categories as listed. Sales by local authorities to the Domestic, Commercial and Industry categories are not included in this table. Some data on prices for electricity sold by local authorities is given in Table 3.4.
  3. The price are c/kWh for each of a number of sales categories.
  4. The real price was calculated by using the annual CPI (see Table 5.1) with 2008 = 100.
  5. Eskom noted a change in data format for Domestic and Street lighting for 1993.
  6. Prices are exclusive of VAT
-

Eskom generates its revenue from different electricity users; Table 4.2 tables various types of electricity users from as early as 1970 to 2009. These electricity users include electricity used for domestic and street lighting, commercial, industrial, international, mining, farming and traction.

**Table 4.2: Annual electricity Eskom revenue by customer category (real prices) - cents per kilowatt per hour (c/kWh)**

Date	Average	Bulk	Domestic and Street Lighting	Commercial	Industrial	International	Eskom Mining	Rural / Farming	Traction
1981/01/01	2.28	2.27	4.73		2.28		2.08		2.99
1982/01/01	2.80	2.81	5.42		2.83		2.54		3.65
1983/01/01	3.36	3.37	6.23		3.38		3.05		4.55
1984/01/01	3.58	3.59	6.66		3.60		3.27		4.70
1985/01/01	4.12	4.12	7.51		4.12		3.79		5.37
1986/01/01	4.98	4.87	9.20		5.03		4.72		6.24
1987/01/01	5.75	5.58	10.95		5.47		5.54	10.44	7.61
1988/01/01	6.29	6.12	11.86	10.91	5.88		6.03	11.67	8.18
1989/01/01	6.90	6.69	12.32	11.22	6.47		6.67	12.60	9.08
1990/01/01	7.88	7.65	14.51	12.80	7.33		7.59	14.49	10.41
1991/01/01	8.47	8.25	15.78	14.28	7.78		8.13	15.86	11.42
1992/01/01	9.16	8.98	15.27	15.57	8.17	8.63	8.79	17.14	12.44
1993/01/01	10.14	9.49	12.68	16.46	8.35	7.65	9.52	19.84	13.70
1994/01/01	10.26	10.18	16.76	17.43	8.91	7.88	10.11	21.13	14.31
1995/01/01	11.15	10.77	18.15	18.65	10.40	6.93	10.62	21.99	14.65
1996/01/01	11.30	11.10	19.45	19.49	10.10	6.80	11.02	23.39	15.31
1997/01/01	11.85	11.41	21.33	20.23	10.78	7.69	11.66	24.66	15.04
1998/01/01	12.29	11.63	22.74	18.85	11.02	8.04	12.22	26.42	14.90
1999/01/01	12.44	11.85	25.36	22.27	10.56	8.54	12.61	26.58	15.19
2000/01/01	13.23	12.20	27.70	22.64	11.94	10.42	12.91	28.88	15.35
2001/01/01	13.76	12.91	30.90	17.95	11.56	11.47	13.35	26.85	15.69

Date	Average	Bulk	Domestic and Street Lighting	Commercial	Industrial	International	Eskom Mining	Rural / Farming	Traction
2002/01/01	14.98	14.09	33.43	19.51	12.88	14.44	14.14	26.47	17.15
2003/01/01	16.05	15.25	36.58	20.62	14.16	9.55	15.07	29.14	18.98
2004/01/01	16.04	15.19	38.70	21.88	13.97	8.63	15.36	30.83	19.37
2006/01/01	17.05	16.13	40.08	22.69	14.75	9.83	16.19	32.86	20.25
2007/01/01	22.26	12.69	44.56	24.85	17.28	14.17	17.99	35.91	23.31
2008/01/01	46.62	43.50	49.88	59.02	20.25	34.46	21.59	85.48	49.62
2009/01/01	59.76	57.58	59.74	76.52	25.24	41.96	28.24	110.10	71.38

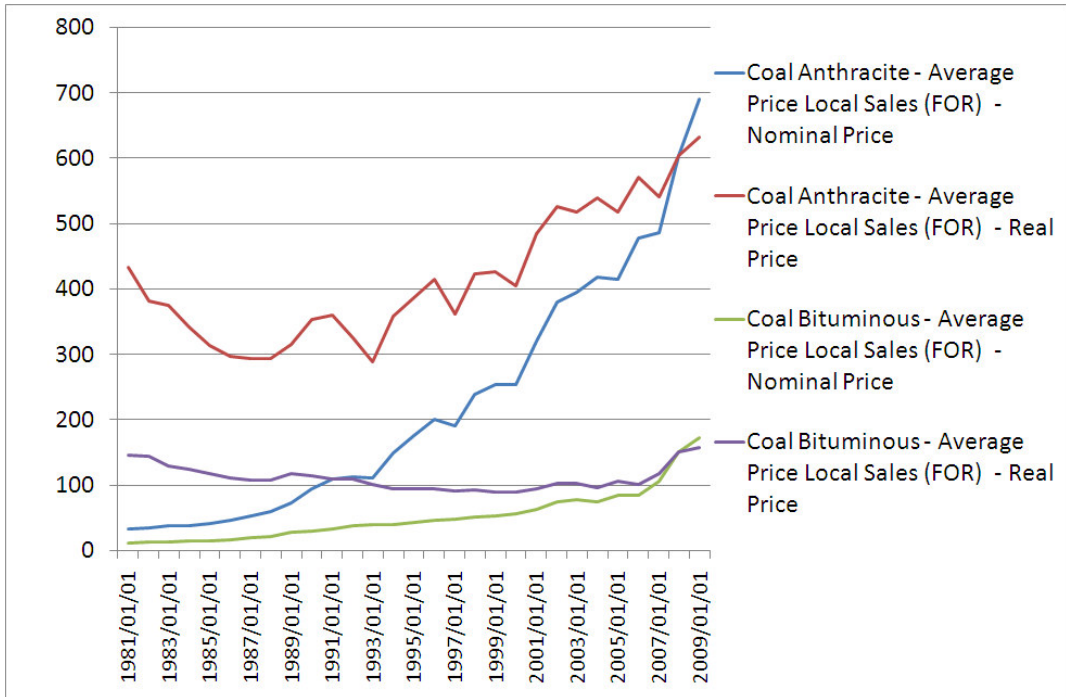
**Explanatory Notes:**

1. The data in this table is from various Eskom Statistical Yearbooks and Annual Reports.
2. The price data in this table is only applicable to Eskom's direct sales to the categories as listed. Sales by local authorities to the Domestic, Commercial and Industry categories are not included in this table. Some data on prices for electricity sold by local authorities is given in Table 3.4.
3. The prices are c/kWh for each of a number of sales categories.
4. The real price was calculated by using the annual CPI (see Table 5.1) with 2008= 100.
5. Eskom noted a change in data format for Domestic and Street lighting for 1993.
6. Prices are exclusive of VAT

Electricity is used in different sectors; the Eskom's revenue generated from electricity used for domestic and street lighting, industries and mining sector are graphed in Figure 4.1. The figure shows that during 80's domestic and street lighting contributed a significant share to Eskom's revenue from electricity. Along the years Eskom's revenue kept on increasing with domestic and street lighting electricity revenue still showing the highest contribution. Individual consumers were spending more on electricity than bit industries. This occurrence was due to arrangements made in the 70's when Eskom was making long term contracts with industry to utilise all the available power stations. These long term contracts were done on a constant tariff whereas the individual consumers prices were adjusted annually via the tariff.

There was a sudden decrease in domestic and street lighting contribution to Eskom's electricity revenue in 1992. This decrease in Eskom's revenue was most likely due to Eskom's announcing its "price compact" in 1991, in terms of which it undertook to decrease the real price of electricity by 20% over the five-year period 1992 to 1996 (Horen, 1996). After that occurrence Eskom's revenue on electricity has been high as the price of electricity has been increasing year after year to date.

Additional power stations and major power lines are being built to meet rising electricity demand. There is an anticipated supply shortage between 2010 and 2016. The base-case outlook up to 2016 based on the IRP 2010 moderate demand scenario suggests a high likelihood that there will be an energy supply shortfall over the period until 2015. The supply/demand balance will be tightest for 2011-2012 as additional supply options are relatively limited until new build capacity (Medupi and Kusile) start to come on stream (IRP 2010).



**Figure 4.1: Annual Eskom revenue by customer category - cents per kilowatt per hour (c/kWh)**

In this section, the use of electricity is divided into the electricity used by commercial sector, industrial sector and residential sector, the average electricity prices of those sectors by provinces are provided in Table 4.3.

**Table 4.3: Annual average electricity prices by province (ESKOM prices excluded)**

Electricity COMMERCIAL SECTOR excluding Eskom									
Date	Eastern Cape	Free State	Gauteng	Kwa Zulu Natal	Mpumalanga	North West	Northern Cape	Northern Province	Western Cape
1994/01/01	28.46	29.70	28.24	26.64	24.88	24.28	31.07	33.52	27.81
1995/01/01	24.32	25.90	19.83	22.42	26.20	23.86	29.63	25.14	24.55
1996/01/01	23.84	25.64	19.80	21.60	25.90	24.17	28.96	25.88	24.31
1997/01/01	22.05	25.71	19.93	20.83	25.78	29.60	29.59	32.30	24.08
1998/01/01	23.20	19.10	23.46	21.07	17.38	26.39	27.99	25.26	24.45
1999/01/01	27.71	26.10	23.44	21.89	24.16	29.61	23.33	26.36	28.01

Electricity INDUSTRIAL SECTOR excluding Eskom									
Date	Eastern Cape	Free State	Gauteng	Kwa Zulu Natal	Mpumalanga	North West	Northern Cape	Northern Province	Western Cape
1994/01/01	20.56	23.22	20.64	18.71	17.93	22.80	26.41	24.20	20.00
1995/01/01	17.08	18.36	16.04	13.71	9.13	16.03	17.85	24.89	17.29
1996/01/01	16.72	16.16	13.02	9.42	9.73	14.44	13.99	13.74	15.06
1997/01/01	15.08	20.20	16.34	13.87	16.64	12.73	24.22	20.82	16.88
1998/01/01	18.31	15.90	18.59	16.40	15.73	21.17	26.80	23.37	13.70
1999/01/01	20.50	21.35	19.54	18.40	10.37	22.74	30.33	27.53	19.66

Electricity RESIDENTIAL SECTOR excluding Eskom									
Date	Eastern Cape	Free State	Gauteng	Kwa Zulu Natal	Mpumalanga	North West	Northern Cape	Northern Province	Western Cape
1994/01/01	18.07	20.41	18.48	19.69	21.37	21.50	27.27	18.72	22.61

Date	Electricity RESIDENTIAL SECTOR excluding Eskom								
	Eastern Cape	Free State	Gauteng	Kwa Zulu Natal	Mpumalanga	North West	Northern Cape	Northern Province	Western Cape
1995/01/01	18.88	19.42	18.33	16.93	21.54	21.88	27.11	22.74	21.49
1996/01/01	19.71	20.02	18.07	17.27	21.43	21.92	26.66	21.65	21.77
1997/01/01	17.22	20.78	27.64	19.02	23.12	22.43	25.70	21.67	23.87
1998/01/01	24.21	16.08	20.21	19.88	21.14	14.17	26.81	18.45	29.16
1999/01/01	25.39	23.39	21.78	22.55	25.34	17.41	32.31	26.86	25.70

**Explanatory Notes:**

1. Data in this table was provided by the National Electricity Regulator ([NERSA).
2. Eskom data is excluded from this table.
3. The average weighted price paid by commercial, industrial and residential customers in each of the nine provinces is tabulated.
4. The prices are exclusive of VAT..
5. NERSA stopped collecting this data since 1999

There are different types of domestic tariffs provided by Eskom, Table 4.4 shows Homelight 1 Previous S1 (2.5 A, 20A, 5A and 60A), Homelight 2 Previous S2 (20A and 60A) and Electricity Eskom S1 Tariff. These tariffs are provided in different units.

**Table 4.4: Annual Eskom domestic tariffs**

Date	Electricity Eskom Domestic Homelight 1 Previous S1						Electricity Eskom Domestic Homelight 2 Previous S2				Electricity Eskom S1 Tariff
	2.5A	20A		5A	60A		20A		60A		Domestic Prices
	Cents per kiloWatt-hour	Cents per kiloWatt-hour	Rand per GigaJoule	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Rand per GigaJoule
1990/01/01					16.00	44.44					44.44
1991/01/01					17.28	48.00					48.00
1992/01/01					18.84	52.33			16.10	44.72	52.33
1993/01/01					20.35	56.53			17.39	48.31	56.53
1994/01/01					21.77	60.47			18.61	51.69	60.47
1995/01/01					22.64	62.89			19.36	53.78	62.89
1996/01/01					23.54	65.39			20.13	55.92	65.39
1997/01/01		24.72	68.67		25.64	71.22	21.14	58.72	22.06	61.28	71.22
1998/01/01		27.01	75.03		29.02	80.61	23.25	64.58	25.26	70.17	80.61
1999/01/01		29.27	81.31		32.42	90.06	25.34	70.39	28.49	79.14	90.06
2000/01/01		31.48	87.44		35.41	98.36	27.34	75.94	31.26	86.83	98.36
2001/01/01		33.12	92.00		37.25	103.50	28.76	79.89	32.89	91.36	103.47
2002/01/01	35.17	35.17	97.69	97.69	39.56	109.90	30.54	84.83	34.93	97.03	109.89
2003/01/01	38.13	38.13	105.92	105.92	42.89	119.14	33.11	91.97	37.87	105.19	119.14
2004/01/01	39.08	39.08	108.56	108.56	43.96	122.11	33.94	94.28	38.82	107.83	122.11
2005/01/01	40.68	40.68	113.00	113.00	45.76	127.11	35.33	98.14	40.41	112.25	127.11
2006/01/01	42.75	42.75	118.75	118.75	48.09	133.58	37.13	103.14	42.47	117.97	133.58
2007/01/01	45.27	45.27	125.75	125.75	50.93	141.47	39.32	109.22	44.98	124.94	141.47

Date	Electricity Eskom Domestic Homelight 1 Previous S1						Electricity Eskom Domestic Homelight 2 Previous S2				Electricity Eskom S1 Tariff
	2.5A	20A		5A	60A		20A		60A		Domestic Prices
	Cents per kiloWatt-hour	Cents per kiloWatt-hour	Rand per GigaJoule	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Rand per GigaJoule
2008/01/01	51.70	103.40	143.61	143.61	58.20	161.67	45.00	125.00	51.40	142.78	161.67
2009/01/01	57.49	57.49	159.69	159.69	64.96	180.44	49.78	138.28	57.14	158.72	180.44

**Explanatory Notes:**

1. This table gives Eskom's domestic tariff structure.
2. The S-tariffs are valid for pre-paid meters (Now called "Home light"). The different tariffs refer to the different ratios of investment between Eskom and the customer.
3. The S1 and S2 tariffs are based on 20 amp and 60 amp supply.
4. The tariffs are exclusive of VAT.
5. Home light 1, 2.5A was in a pilot study stage in 2001.
6. 2002 (1) tariffs for January 2002 to end June 2002.
7. 2002(2) restructuring of all Eskom tariffs - will be implemented on 1 July 2002
8. Home light 3 Previous S3 (60 A c/kWh) - Product discontinued
9. Home light 3 Previous S3 (60 A R/GJ) - Product discontinued

Other tariffs provided by Eskom are found in Table 4.5. These tariffs include Domestic Homelight 3 Previous S3 (60A), Electricity Eskom Domestic Homepower 60A Previous Tarrifs C (Average (@1000 KWh/m), Average (@500 KWh/m), basic and energy) and Eskom S1 Tariff. This data is given from 1986 to 2009 in different units.

**Table 4.5: Annual Eskom domestic tariffs**

Date	Electricity Eskom Domestic Homelight 3 Previous S3		Electricity Eskom Domestic Homepower 60A Previous Tarrifs C							Electricity Eskom S1 Tariff
	60A		Average (@1000 KWh/m)		Average (@500 KWh/m)		Basic	Energy		Domestic Prices
	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Cents per kiloWatt-hour	Rand per GigaJoule	Rand	Cents per kiloWatt-hour	Rand per GigaJoule	Rand per GigaJoule
1986/01/01			9.20	25.55	10.63	29.52	14.29	7.77	21.58	
1987/01/01			10.30	28.61	11.90	33.06	16.01	8.70	24.17	
1988/01/01			11.33	31.48	13.09	36.37	17.61	9.57	26.58	
1989/01/01			12.47	34.63	14.40	40.01	19.37	10.53	29.25	
1990/01/01			14.21	39.47	16.42	45.60	22.08	12.00	33.33	44.44
1991/01/01			15.35	42.63	17.73	49.25	23.85	12.96	36.00	48.00
1992/01/01	14.13	39.25	16.73	46.47	19.33	53.69	25.99	14.13	39.25	52.33
1993/01/01	15.26	42.39	18.07	50.19	20.87	57.98	28.07	15.26	42.39	56.53
1994/01/01	16.33	45.36	19.33	53.71	22.34	62.05	30.04	16.33	45.36	60.47
1995/01/01	16.98	47.17	20.10	55.84	23.23	64.52	31.24	16.98	47.17	62.89
1996/01/01			20.90	58.05	24.15	67.07	32.48	17.65	49.03	65.39
1997/01/01			21.94	60.94	25.35	70.42	34.10	18.53	51.47	71.22
1998/01/01			23.04	64.00	26.62	73.95	35.81	19.46	54.06	80.61
1999/01/01			24.08	66.89	27.82	77.29	37.42	20.34	56.50	90.06
2000/01/01			25.41	70.58	29.36	81.54	39.48	21.46	59.61	98.36
2001/01/01			26.73	74.26	30.89	85.79	41.53	22.58	62.72	103.47
2002/01/01			28.39	78.86	32.80	91.11	44.10	23.98	66.61	109.89
2003/01/01			32.25	89.58	41.48	115.22	92.35	23.01	63.92	119.14

Date	Electricity Eskom Domestic Homelight 3 Previous S3		Electricity Eskom Domestic Homepower 60A Previous Tarrifs C						Electricity Eskom S1 Tariff	
	60A		Average (@1000 KWh/m)		Average (@500 KWh/m)		Basic	Energy		Domestic Prices
	Cents per kiloWatt hour	Rand per GigaJoule	Cents per kiloWatt hour	Rand per GigaJoule	Cents per kiloWatt hour	Rand per GigaJoule	Rand	Cents per kiloWatt hour	Rand per GigaJoule	Rand per GigaJoule
2004/01/01			31.78	88.28	39.04	108.44	72.62	24.52	68.11	122.11
2005/01/01			32.94	91.50	39.42	109.50	64.80	26.46	73.50	127.11
2006/01/01			34.62	96.17	41.43	115.08	68.10	27.81	77.25	133.58
2007/01/01			36.65	101.81	43.85	121.81	72.00	29.45	81.81	141.47
2008/01/01			49.18	136.61	58.84	163.44	96.60	39.52	109.78	161.67
2009/01/01			62.40	173.33	74.40	206.67	120.00	50.40	140.00	180.44

**Explanatory Notes:**

1. This table gives Eskom's domestic tariff structure.
2. Columns 7 and 8 refer to normal C tariff customers (Now called "Home power"). There is a basic charge (col. 7) in Rand per month and an energy charge (col. 8) in c/kWh.
3. The S-tariffs are valid for pre-paid meters (Now called "Home light"). The different tariffs refer to the different ratios of investment between Eskom and the customer.
4. Columns 3 and 5 indicate unit (kWh) prices for Tariff C customers given a consumption of 500 kWh / month and 1000 kWh/month respectively. This takes the basic and the energy charges into account.
5. The tariffs are exclusive of VAT.
6. Home light 1, 2.5A was in a pilot study stage in 2001.
7. 2002 (1) tariffs for January 2002 to end June 2002.
8. 2002(2) restructuring of all Eskom tariffs - will be implemented on 1 July 2002

## 5 FUEL PRICE COMPARISONS

This section compares the price of different energy sources such as 93 octane petrol, illuminating paraffin, diesel, electricity, heavy furnace oil and firewood, from 1992 to 2010. The prices compared in Table 5.1 are the retail prices, wholesale and bulk delivery prices from the coast area.

**Table 5.1: Monthly comparison of various energy carriers - Rand per gigajoule (R/GJ)**

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1965/01							0.18		0.06
1966/01							0.19		0.06
1967/01							0.20		0.06
1968/01							0.20		0.07
1969/01							0.20		0.07
1970/01							0.20		0.07
1971/01							0.21		0.08
1972/01							0.22		0.08
1973/01							0.23		0.10
1974/01							0.24		0.11
1975/01							0.29		0.15
1975/03	4.62								
1975/10	5.53								
1976/01							0.37		0.18
1976/04	6.26								
1976/09	6.26								
1977/01	7.22						0.55		0.20
1977/04	7.43								

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1978/01							0.64		0.21
1978/04	7.43								
1978/07	7.72								
1979/01	8.65						0.68		0.25
1979/02	10.41								
1979/06	14.79								
1980/01							0.73		0.30
1980/02	14.79								
1980/04	14.79								
1981/01							0.82		0.38
1981/04	14.79								
1981/07	16.55								
1982/01							1.01		0.43
1982/03	16.55								
1982/04	17.37							5.59	
1982/09	17.51								
1983/01							1.21	6.07	0.44
1983/02	17.05								
1983/08	15.88								
1983/09								5.83	
1984/01							1.29		0.46
1984/02	16.02								
1984/04	16.02							5.83	
1984/07	16.49							6.23	
1984/09								7.20	
1985/01	23.80						1.48	10.78	0.49

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1985/03	24.24								
1985/04	24.24							10.54	
1985/07	24.24							11.14	
1985/09	25.55								
1985/11	27.48							9.21	
1986/01							1.79		0.51
1986/03								9.21	
1986/04	21.64							8.25	
1987/01							2.07		0.63
1987/02	21.64								
1987/07	21.64							8.09	
1987/10								8.09	
1988/01							2.25		0.71
1988/09	25.44								
1989/01	28.07	20.28	14.01				2.48	8.09	0.96
1989/04	30.12	21.72	15.44					8.09	
1989/06								8.19	
1989/07	31.87							9.15	
1990/01							2.84		0.79
1990/02								9.87	
1990/09	34.79	25.77	19.49					12.27	
1990/10	44.15	34.50	26.25					13.23	
1990/11	39.76	33.69	25.44						
1990/12	36.84								
1991/01							3.05		1.45
1991/03	35.38	30.45	22.20					10.83	

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1991/05		27.88	19.49						
1991/06								9.63	
1991/08	39.18								
1992/01							3.30		1.92
1992/03	41.52	27.88	19.49					9.15	
1992/07								10.11	
1992/10	43.57	28.69	20.31					12.03	
1993/01							3.45		2.14
1993/04	47.95	30.58	22.20					12.03	
1993/09	50.00	32.07	23.68					12.03	
1993/10	49.41	31.53	23.14						
1993/12	48.83								
1994/01							3.72	11.31	1.60
1994/02	47.95								
1994/04								11.31	
1994/06	50.58							12.75	
1994/10	48.83								
1994/11	48.54	32.61	24.22						
1994/12	48.83	33.96	25.58						
1995/01	48.24						4.15		1.77
1995/02	47.66	32.88	24.49					13.95	
1995/03	49.12	33.15	24.76						
1995/04	50.88								
1995/05	51.75	32.88	24.49					15.16	
1995/06		33.42	25.04						
1995/07	52.05	33.42	25.04						

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1995/08	52.05	32.61	24.22						
1995/09	52.05	32.34	23.95						
1995/10	52.63								
1995/11	51.75	33.15	24.76						
1995/12	51.46	34.50	26.12						
1996/01	51.17	36.93	28.55				4.10		2.13
1996/02	50.88	38.55	30.17						
1996/03	50.88	37.74	29.36						
1996/04	53.21	38.01	29.63						
1996/05	57.31	38.28	29.90						
1996/06	61.11	39.36	30.98					18.04	
1996/07	60.82	37.74	29.36						
1996/08	117.25	36.66	28.28						
1996/09		38.55	30.17						
1996/10	58.48	41.79	33.41						
1996/11	59.35	42.33	33.95						
1996/12	61.69	43.14	34.76					20.27	
1997/01	62.57	45.31	36.93						
1997/02	62.28	45.58	37.20						
1997/03	61.11	42.06	33.68						
1997/04	61.69	39.63	31.25					18.35	
1997/05	61.99	38.55	30.17						
1997/06	60.23	37.47	29.09						
1997/07	59.35	37.20	28.82						
1997/08	59.35	37.20	28.82						
1997/09	60.82	36.93	28.55						

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1997/10	61.11	36.12	28.28					18.35	
1997/11	62.57	37.20	29.36						
1997/12	62.86	39.64	31.79						
1998/01	61.69	37.74	29.90						
1998/02	61.69	34.77	26.93						
1998/03	60.23	32.88	25.04					15.71	
1998/04	62.57	32.07	24.22						
1998/05	62.86	33.15	25.31						
1998/06	64.62	34.77	26.93						
1998/07	64.91	33.96	26.12						
1998/08	68.13	36.12	28.28						
1998/09	68.42	36.93	29.09					18.59	
1998/10	67.54	36.93	29.09						
1998/11	65.79	36.93	29.09						
1998/12	65.20	35.31	27.47						
1999/01	64.03	33.96	26.12						
1999/02	63.74	34.77	26.93						
1999/03	64.33	50.44	28.55						
1999/04	66.37	50.17	28.28						
1999/05	71.64	52.87	30.98						
1999/06	75.14	54.76	32.87						
1999/07	75.14	54.49	32.60					20.42	
1999/08	75.44	55.58	33.68						
1999/09	79.24	59.36	37.47					20.42	
1999/10	81.58	61.25	39.36						
1999/11	81.87	62.20	40.31					25.22	

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
1999/12	81.58	62.74	40.85					27.63	
2000/01	82.16	66.52	42.47						
2000/02	80.41	68.14	44.09					29.07	
2000/03	83.04	71.93	47.87						
2000/04	90.93	75.71	51.66					32.67	
2000/05	91.23	74.90	50.85						
2000/06	93.56	73.82	49.76					35.08	
2000/07	99.41	74.90	50.85						
2000/08	102.04	78.41	54.36						
2000/09	103.80	82.20	58.14						
2000/10	105.55	91.66	67.60					35.08	
2000/11	106.14	98.14	74.09					37.48	
2000/12	105.55	97.93	73.87						
2001/01	102.63	91.98	67.93					33.87	
2001/02	98.83	85.22	61.17					29.07	
2001/03	101.75	83.87	59.82						
2001/04	107.01	86.04	61.98					30.75	
2001/05	109.94	87.82	63.76					31.95	
2001/06	114.03	86.74	62.68					37.20	
2001/07	112.57	85.66	61.60						
2001/08	104.97	82.95	58.90					36.00	
2001/09	102.92	82.95	58.90						
2001/10	106.43	85.66	61.60					38.40	
2001/11	107.60	88.09	64.04						
2001/12	101.46	85.39	61.33					36.72	
2002/01	103.80	88.08	64.03					40.33	

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
2002/02	105.55	92.41	68.35						
2002/03	107.31	91.05	67.00						
2002/04	114.62	89.43	65.38					44.65	
2002/05	123.10	92.51	68.46					46.34	
2002/06	119.29	90.35	66.30						
2002/07	113.74	87.38	63.32					45.13	
2002/08	113.74	86.84	62.78						
2002/09	116.37	90.35	66.30					48.50	
2002/10	119.88	96.30	72.24					50.42	
2002/11	121.34	101.41	77.35					48.02	
2002/12	116.66	96.84	72.78					43.93	
2003/01	111.40	90.89	66.84						
2003/02	111.40	90.89	66.84					47.54	
2003/03	120.17	95.76	71.70					49.94	
2003/04	121.05	97.92	73.86						
2003/05	109.94	83.59	59.54					42.01	
2003/06	102.04	74.95	50.89					40.09	
2003/07	108.18	79.54	55.49						
2003/08	113.45	82.24	58.19					42.49	
2003/09	115.20	82.78	58.73					41.05	
2003/10	108.77	80.62	56.57					39.85	
2003/11	108.18	83.22	59.16						
2003/12	108.18	85.38	61.32					38.16	
2004/01	107.01	84.84	60.78						
2004/02	115.79	89.43	65.38					39.85	
2004/03	118.42	88.89	64.84					39.37	

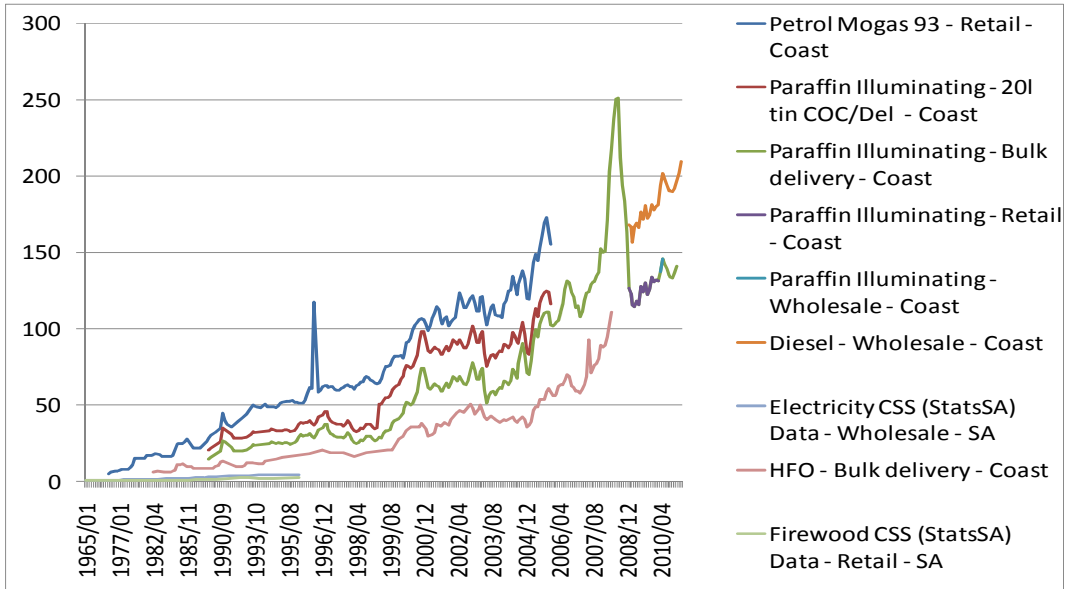
Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
2004/04	124.56	87.27	63.22						
2004/05	125.14	89.43	65.38						
2004/06	133.91	97.54	73.49					41.77	
2004/07	128.94	95.11	71.05					39.37	
2004/08	122.22	91.05	67.00					38.16	
2004/09	128.94	90.35	76.73					39.37	
2004/10	133.04	97.38	83.76						
2004/11	138.01	103.86	90.24					41.77	
2004/12	132.45	96.38	82.76					39.85	
2005/01	119.59	84.22	70.59					35.09	
2005/02	119.00	83.14	69.51					36.29	
2005/03	131.28	92.59	78.97					38.69	
2005/04	142.98	105.84	92.22					45.90	
2005/05	148.83	112.86	99.24					48.31	
2005/06	144.15	107.73	94.11					48.31	
2005/07	152.63	116.65	103.03					53.11	
2005/08	160.52	120.70	107.08					53.11	
2005/09	169.00	123.41	109.78					53.11	
2005/10	172.80	124.22	110.59					57.92	
2005/11	163.74	123.95	110.32					60.80	
2005/12	154.97	115.84	102.22					58.40	
2006/01			101.68					56.00	
2006/02			102.76					56.00	
2006/03			103.84					57.20	
2006/04			105.19					62.00	
2006/05			110.59					63.21	

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
2006/06			116.00					63.21	
2006/07			125.73					66.09	
2006/08			131.41					69.69	
2006/09			130.05					68.49	
2006/10			124.11					62.48	
2006/11			120.59					61.28	
2006/12			113.84					58.88	
2007/01			114.65					58.88	
2007/02			107.62					57.68	
2007/03			110.32					60.08	
2007/04			118.43					63.21	
2007/05			123.30					68.49	
2007/06			123.84					92.53	
2007/07			128.43					70.90	
2007/08			130.32					73.78	
2007/09			130.32					75.70	
2007/10			133.84					76.90	
2007/11			136.54					80.03	
2007/12			152.22					88.92	
2008/01			149.78					87.96	
2008/02			150.32					88.92	
2008/03			170.86					94.21	
2008/04			202.76					103.58	
2008/05			217.76					110.55	
2008/06			236.95						
2008/07			250.19						

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
2008/08			251.11						
2008/09			211.65						
2008/10			194.08						
2008/11			183.54						
2008/12			163.27						
2009/01			126.38	126.38		167.88			
2009/02			122.59	122.59		166.57			
2009/03			115.57	115.57		156.59			
2009/04			114.22	114.22		166.96			
2009/05			117.73	117.73		169.06			
2009/06			115.30	115.30		166.04			
2009/07			127.73	127.73		176.54			
2009/08			123.95	123.95		171.29			
2009/09			129.62	129.62		180.48			
2009/10			122.19	122.19		171.95			
2009/11			125.97	125.97		174.57			
2009/12			133.81	133.81		181.13			
2010/01			130.57	130.57		177.46			
2010/02			131.92	131.92		180.08			
2010/03			131.38	131.38		181.13			
2010/04			137.05		137.05	193.86			
2010/05			145.43		145.43	201.47			
2010/06			141.92			197.54			
2010/07			138.68			193.60			
2010/08			134.62			190.19			
2010/09			133.27			190.19			

Date	Petrol Mogas 93	Paraffin Illuminating			Diesel	Electricity CSS (StatsSA) Data	HFO	Firewood CSS (StatsSA) Data	
	Retail	20l tin COC/Del	Bulk delivery	Retail	Wholesale	Wholesale	Wholesale	Bulk delivery	Retail
	Coast	Coast	Coast	Coast	Coast	Coast	SA	Coast	SA
2010/10			133.00			189.40			
2010/11			136.78			192.29			

The prices of different energy sources are compared in Figure 5.1. Amongst all the energy sources identified, 93 octane petrol cost the most from the early 90 to 2010. The figure indicates that the prices of these energy sources grow at a similar rate. They show price increase at the same period and show price reduction at the same period as well. Illuminating paraffin grew the highest in 2008. Heavy furnace oil has always been the cheapest of them all throughout the period under review.



**Figure 5.1: Annual comparison of various energy carrier prices - Rand per gigajoule (R/GJ)**

The relationship between crude oil prices and the price of international petroleum product prices are shown in Table 5.2. These prices are given from 1988 to 2010 with different units.

**Table 5.2: Monthly crude oil and international product price**

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
1988/01/01	53.06	33.78	53.96	31.02
1988/02/01	53.64	31.34	55.42	30.04
1988/03/01	55.82	29.50	57.68	26.80
1988/04/01	56.94	33.06	58.44	29.82
1988/05/01	61.90	32.64	62.08	29.80
1988/06/01	62.58	31.06	62.48	27.40
1988/07/01	59.20	29.80	57.88	26.06
1988/08/01	58.74	29.76	56.98	26.24
1988/09/01	58.58	26.32	56.16	23.08
1988/10/01	56.00	24.84	50.88	20.66
1988/11/01	55.24	25.90	51.06	21.02
1988/12/01	58.66	30.66	56.44	25.16
1989/01/01	64.12	34.14	65.72	28.76
1989/02/01	67.00	33.84	69.86	29.22
1989/03/01	72.06	37.58	72.62	32.04
1989/04/01	80.56	40.44	73.08	33.86
1989/05/01	94.44	37.30	76.44	31.26
1989/06/01	95.02	35.20	79.06	30.82
1989/07/01	88.58	35.48	75.94	30.74
1989/08/01	82.34	33.50	76.60	29.98
1989/09/01	84.34	35.60	79.48	31.20
1989/10/01	80.88	37.82	80.52	32.28
1989/11/01	79.34	37.40	81.46	32.20
1989/12/01	77.54	39.90	85.12	34.26
1990/01/01	79.60	42.56	87.06	34.92
1990/02/01	81.68	39.56	81.62	33.38
1990/03/01	85.40	36.66	79.16	31.52
1990/04/01	87.82	32.74	77.68	28.50
1990/05/01	84.02	32.62	76.04	29.04
1990/06/01	77.58	30.16	70.20	26.44
1990/07/01	78.78	34.44	69.52	30.56
1990/08/01	116.80	54.88	103.96	50.12
1990/09/01	148.24	70.36	130.58	60.82
1990/10/01	147.06	71.90	148.00	63.04
1990/11/01	116.38	66.10	132.68	55.76
1990/12/01	108.26	55.94	123.82	46.26
1991/01/01	107.84	47.38	125.88	38.78

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
1991/02/01	99.52	38.92	140.68	28.62
1991/03/01	83.28	37.88	99.46	29.62
1991/04/01	85.62	38.28	86.84	30.72
1991/05/01	93.14	38.22	88.90	31.86
1991/06/01	104.56	36.26	93.02	30.82
1991/07/01	99.28	38.82	93.48	32.50
1991/08/01	97.66	39.54	95.46	33.26
1991/09/01	96.64	41.10	100.42	35.72
1991/10/01	96.04	44.48	101.00	37.80
1991/11/01	94.78	42.06	103.76	36.68
1991/12/01	91.70	36.54	100.40	30.40
1992/01/01	87.50	36.40	92.38	30.58
1992/02/01	87.04	36.20	90.48	31.50
1992/03/01	85.46	35.14	83.50	31.60
1992/04/01	85.52	38.00	87.44	33.40
1992/05/01	89.74	39.78	92.82	35.30
1992/06/01	97.74	42.28	98.10	38.00
1992/07/01	96.58	40.52	97.36	36.96
1992/08/01	95.92	39.46	91.16	35.68
1992/09/01	92.80	40.50	91.80	36.80
1992/10/01	97.00	40.50	98.96	36.30
1992/11/01	99.32	38.38	103.88	34.16
1992/12/01	91.88	36.28	99.56	32.36
1993/01/01	93.88	34.78	101.14	30.42
1993/02/01	97.72	36.98	102.10	32.04
1993/03/01	96.66	37.46	104.28	32.54
1993/04/01	100.30	37.28	104.78	32.58
1993/05/01	102.76	36.90	107.98	31.72
1993/06/01	104.38	35.18	106.98	31.24
1993/07/01	101.20	33.56	103.78	28.40
1993/08/01	98.88	33.42	100.48	29.50
1993/09/01	100.68	32.02	102.62	28.36
1993/10/01	101.90	33.06	107.18	29.52
1993/11/01	95.46	30.20	104.96	27.28
1993/12/01	83.50	27.06	99.42	24.34
1994/01/01	79.24	28.54	95.64	26.56
1994/02/01	82.38	27.38	96.28	25.56
1994/03/01	84.66	27.80	92.68	24.28
1994/04/01	90.74	30.24	96.12	27.72
1994/05/01	102.02	32.32	101.74	29.56
1994/06/01	103.08	33.50	97.84	31.44
1994/07/01	100.04	35.14	99.02	32.86
1994/08/01	102.86	33.38	96.46	31.58

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
1994/09/01	91.42	31.70	94.90	30.58
1994/10/01	89.70	32.94	96.78	30.72
1994/11/01	91.22	34.54	99.84	32.08
1994/12/01	84.50	31.66	100.92	30.90
1995/01/01	85.20	33.12	99.92	32.02
1995/02/01	92.68	34.30	99.10	33.26
1995/03/01	99.14	33.96	100.00	32.62
1995/04/01	101.54	37.20	100.54	34.82
1995/05/01	104.46	36.60	106.96	34.52
1995/06/01	107.12	34.68	108.46	32.36
1995/07/01	105.86	31.58	104.12	30.02
1995/08/01	104.12	32.08	99.30	30.86
1995/09/01	104.88	33.40	98.68	31.02
1995/10/01	98.40	32.18	98.62	29.70
1995/11/01	96.76	33.64	100.22	31.36
1995/12/01	97.92	36.04	110.42	33.98
1996/01/01	94.12	35.94	124.28	33.18
1996/02/01	92.90	35.96	124.66	31.80
1996/03/01	101.80	39.90	135.72	33.92
1996/04/01	124.24	41.88	141.94	35.30
1996/05/01	146.26	38.20	151.16	33.72
1996/06/01	141.16	36.80	146.70	34.60
1996/07/01	131.98	39.40	140.98	35.60
1996/08/01	132.14	41.20	147.48	37.40
1996/09/01	129.54	45.40	154.56	40.80
1996/10/01	135.52	48.40	171.20	43.60
1996/11/01	149.46	45.60	184.66	42.00
1996/12/01	150.78	47.80	193.64	43.60
1997/01/01	152.50	47.00	191.60	42.80
1997/02/01	145.98	41.60	155.82	37.40
1997/03/01	149.96	38.20	154.12	36.20
1997/04/01	148.32	35.00	158.66	33.40
1997/05/01	136.82	38.20	153.66	37.20
1997/06/01	136.76	35.20	148.52	34.60
1997/07/01	134.64	37.20	132.18	34.80
1997/08/01	143.04	37.40	136.14	35.60
1997/09/01	144.02	37.00	138.80	36.00
1997/10/01	143.58	39.80	143.32	38.40
1997/11/01	146.86	38.40	150.70	37.00
1997/12/01	138.22	34.20	141.24	32.60
1998/01/01	132.44	30.20	128.12	26.82
1998/02/01	122.20	27.80	117.12	24.64
1998/03/01	117.12	26.20	108.36	22.88

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
1998/04/01	120.06	26.80	112.40	24.42
1998/05/01	127.82	28.80	118.88	25.48
1998/06/01	128.84	24.00	112.80	23.52
1998/07/01	150.86	24.08	127.62	24.24
1998/08/01	146.76	23.92	123.46	24.48
1998/09/01	131.52	26.78	121.44	26.20
1998/10/01	127.46	25.28	124.26	25.50
1998/11/01	121.38	21.92	116.44	23.54
1998/12/01	111.00	19.70	106.54	20.18
1999/01/01	109.34	22.24	113.98	21.44
1999/02/01	111.00	20.46	117.08	20.06
1999/03/01	117.78	25.00	117.88	24.70
1999/04/01	147.68	30.66	137.08	29.88
1999/05/01	161.78	30.62	142.86	30.80
1999/06/01	163.36	31.70	142.74	31.00
1999/07/01	172.02	38.06	149.96	35.76
1999/08/01	195.68	40.62	168.04	38.88
1999/09/01	206.48	44.90	180.18	43.80
1999/10/01	207.36	44.02	191.66	42.92
1999/11/01	210.88	49.38	197.16	46.10
1999/12/01	215.22	51.14	208.98	47.22
2000/01/01	217.68	51.10	214.80	46.62
2000/02/01	247.88	55.80	250.42	49.36
2000/03/01	289.98	54.52	291.40	50.22
2000/04/01	263.98	45.18	261.80	44.20
2000/05/01	286.66	55.28	258.42	51.50
2000/06/01	310.84	59.60	269.90	54.48
2000/07/01	322.86	56.98	286.22	52.26
2000/08/01	338.76	60.22	310.82	53.90
2000/09/01	349.70	65.46	377.50	59.90
2000/10/01	350.52	61.82	389.50	61.02
2000/11/01	345.88	65.16	382.30	60.64
2000/12/01	326.00	51.66	356.86	43.14
2001/01/01	302.84	51.32	325.12	47.54
2001/02/01	316.30	54.90	318.32	49.90
2001/03/01	322.00	48.84	306.98	46.90
2001/04/01	333.82	51.32	322.36	48.36
2001/05/01	375.36	56.90	332.00	51.12
2001/06/01	357.46	55.66	332.08	51.30
2001/07/01	332.26	49.12	331.40	46.86
2001/08/01	328.96	51.48	330.96	49.06
2001/09/01	353.94	51.14	341.86	48.24
2001/10/01	352.74	40.98	354.32	39.70

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
2001/11/01	310.94	37.92	336.82	35.34
2001/12/01	334.06	37.44	352.74	35.72
2002/01/01	334.18	38.96	366.48	36.74
2002/02/01	341.00	40.40	349.86	37.96
2002/03/01	388.40	47.46	371.50	45.70
2002/04/01	441.44	51.32	414.20	48.66
2002/05/01	419.14	50.66	400.98	49.38
2002/06/01	394.00	48.26	381.96	47.82
2002/07/01	393.64	51.62	384.62	49.28
2002/08/01	398.96	53.26	390.98	50.36
2002/09/01	417.40	56.76	421.30	53.60
2002/10/01	421.92	55.16	451.52	52.64
2002/11/01	395.80	48.20	429.70	46.62
2002/12/01	351.82	57.34	371.22	51.46
2003/01/03	362.44	62.64	378.32	56.04
2003/02/03	401.88	65.34	405.00	60.04
2003/03/03	427.32	61.08	428.48	54.76
2003/04/03	277.88	49.70	269.10	46.90
2003/05/03	273.88	51.44	262.16	48.72
2003/06/03	311.20	55.02	290.84	51.02
2003/07/03	321.02	56.70	276.24	53.44
2003/08/03	341.08	59.58	295.60	55.32
2003/09/03	297.82	54.16	280.12	50.74
2003/10/03	296.56	59.30	298.26	54.54
2003/11/03	284.04	57.46	289.06	55.42
2003/12/03	294.22	59.74	285.58	56.20
2004/01/01	350.96	62.46	334.52	57.76
2004/02/01	329.16	61.66	298.58	57.22
2004/03/01	351.94	67.58	307.70	61.70
2004/04/01	359.76	66.50	320.24	63.36
2004/05/01	429.68	75.60	369.08	69.48
2004/06/01	361.90	70.08	336.96	66.86
2004/07/01	365.78	76.64	352.54	69.30
2004/08/01	404.62	86.08	406.76	77.10
2004/09/01	405.58	86.50	438.52	71.10
2004/10/01	436.62	99.28	473.28	75.08
2004/11/01	384.52	85.68	419.78	69.74
2004/12/01	303.92	79.06	354.74	68.40
2005/01/01	348.48	88.46	373.40	75.84
2005/02/01	386.40	90.90	407.78	79.74
2005/03/01	432.14	105.82	487.60	91.68
2005/04/01	465.12	103.64	498.84	94.40
2005/05/01	428.74	97.12	473.34	90.80

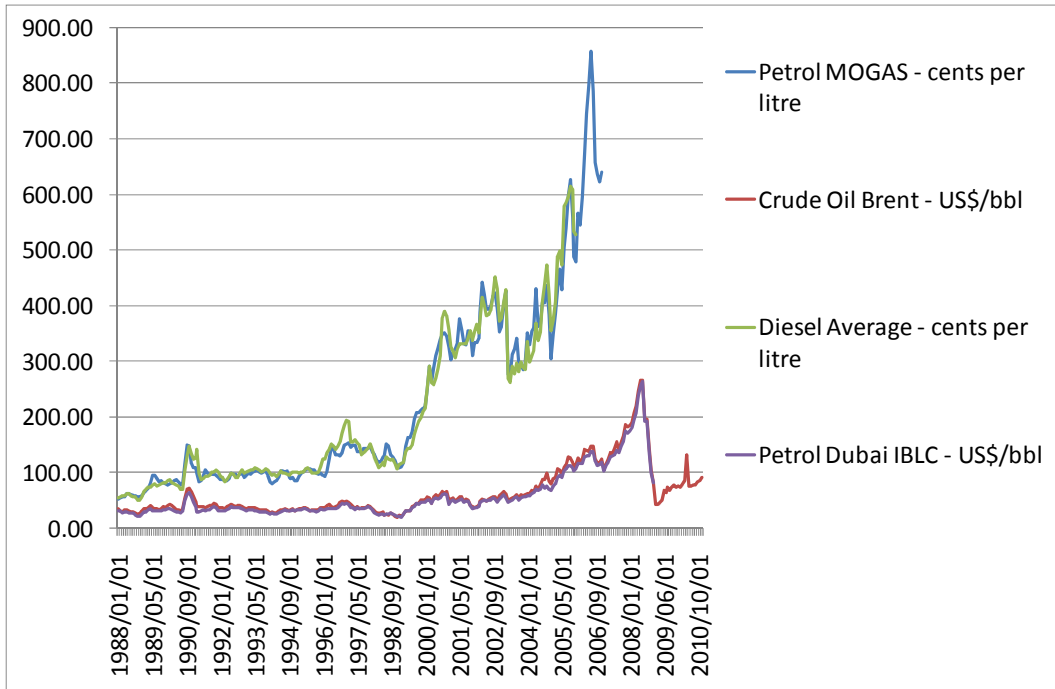
Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
2005/06/01	504.88	108.78	578.48	102.16
2005/07/01	539.52	115.16	585.24	105.66
2005/08/01	596.30	128.24	594.66	113.20
2005/09/01	626.90	125.82	614.74	113.08
2005/10/01	558.74	117.22	609.42	107.92
2005/11/01	489.38	110.34	533.76	102.78
2005/12/01	479.02	113.82	526.44	106.40
2006/01/01	566.02	126.00		116.80
2006/02/01	544.02	120.20		115.20
2006/03/01	594.82	124.20		115.60
2006/04/01	672.82	140.60		128.20
2006/05/01	744.82	139.80		130.00
2006/06/01	794.82	137.40		130.40
2006/07/01	856.82	147.40		138.40
2006/08/01	784.82	146.20		137.60
2006/09/01	656.82	123.40		119.60
2006/10/01	636.82	115.60		112.80
2006/11/01	622.82	117.80		113.40
2006/12/01	638.82	124.60		117.40
2007/01/01		107.40		103.40
2007/02/01		114.80		111.60
2007/03/01		124.20		117.60
2007/04/01		135.00		128.00
2007/05/01		134.40		129.20
2007/06/01		142.80		131.40
2007/07/01		154.00		139.00
2007/08/01		141.40		134.80
2007/09/01		153.80		146.80
2007/10/01		165.00		154.20
2007/11/01		185.20		173.80
2007/12/01		182.00		171.20
2008/01/01		184.00		174.80
2008/02/01		190.00		180.00
2008/03/01		207.40		193.60
2008/04/01		218.00		206.80
2008/05/01		245.40		239.00
2008/06/01		264.80		255.60
2008/07/01		266.40		262.60
2008/08/01		196.20		191.80
2008/09/01		196.20		191.80
2008/10/01		143.80		134.80
2008/11/01		105.00		99.60
2008/12/01		80.60		81.00

Date	Petrol MOGAS	Crude Oil Brent	Diesel Average	Petrol Dubai IBLC
	cents per litre	US\$/bbl	cents per litre	US\$/bbl
2009/01/01		43.30		
2009/02/01		43.10		
2009/03/01		46.50		
2009/04/01		50.50		
2009/06/01		68.60		
2009/07/01		64.60		
2009/08/01		72.80		
2009/09/01		67.40		
2009/10/01		72.80		
2009/11/01		76.70		
2009/12/01		74.30		
2010/01/01		76.19		
2010/02/01		73.63		
2010/03/01		78.89		
2010/04/01		84.89		
2010/05/01		132.46		
2010/06/01		74.85		
2010/07/01		75.64		
2010/08/01		77.15		
2010/09/01		77.79		
2010/10/01		82.74		
2010/11/01		85.33		
2010/12/01		91.36		

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**Explanatory Notes.**

1. The petrol mogas price has been converted from US\$/gal to South African c/l
  2. The prices were provided by CEF and are based on the formula used to calculate the IBLC.
  3. The FOB price is calculated as follows:
    - 80% posted (from Caltex, Bahrain and 3 refineries in Singapore).
    - 20% spot (from Singapore).
  4. Prices for Brent and Dubai crude in US\$/barrel.
  5. Prices for January 1995 to December 1997 were taken from SAPIA Third Annual Report - October 1998.
  6. Prices for January 1998 to April 2002 were obtained from CEF. DTD BRENT Monthly Average and DUBAI First Line Monthly Average.
  7. Singapore Mogas and Diesel data was previously obtained from CEF; the data is no longer accessible.
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**Figure 5.2: Monthly crude oil and international product price**

## APPENDIX A: ECONOMIC INDICATORS

This section includes monthly and annual economic indicator data. Consumer price index, production price index, exchange rates and monthly foreign exchange rates are covered in this section. These economic indicators are published and are the official figures used in South Africa. The annual consumer price index data from 1981 to 2010 is shown in Table A.1.

**Table A. 1: Annual consumer price index (CPI)**

Date	CPI (2008=100)	Date	CPI (2008=100)
1981/01/01	7.80	1997/01/01	52.80
1983/01/01	10.00	1998/01/01	56.40
1984/01/01	11.20	1999/01/01	59.30
1985/01/01	13.00	2000/01/01	62.50
1986/01/01	15.50	2001/01/01	66.10
1987/01/01	17.90	2002/01/01	72.10
1988/01/01	20.20	2003/01/01	76.30
1989/01/01	23.20	2004/01/01	77.40
1990/01/01	26.50	2005/01/01	80.00
1991/01/01	30.60	2006/01/01	83.70
1992/01/01	34.80	2007/01/01	89.70
1993/01/01	38.20	2008/01/01	100.00
1994/01/01	41.70	2009/01/01	109.20
1995/01/01	45.30	2010/01/01	113.00
1996/01/01	48.60		

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### Explanatory Notes.

1. The economic indicators (CPI, PPI) are from Statistic South Africa
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The historical monthly consumer price index (CPI) data collected from 1981 to 2010 is provided in Table A.2. The year 2008 is used as the base year.

**Table A. 2: Monthly consumer price index (CPI)**

Date	CPI (2008=100)	Date	CPI (2008=100)	Date	CPI (2008=100)
1981/01/01	7.30	1984/06/01	11.10	1987/10/01	18.70
1981/03/01	7.40	1984/07/01	10.50	1987/11/01	18.90
1981/04/01	7.50	1984/08/01	11.40	1987/12/01	19.00
1981/05/01	7.60	1984/09/01	11.40	1988/01/01	19.10
1981/06/01	7.60	1984/10/01	11.60	1988/02/01	19.30
1981/07/01	7.30	1984/11/01	11.80	1988/03/01	19.60
1981/08/01	7.90	1984/12/01	11.80	1988/04/01	19.80
1981/09/01	8.10	1985/01/01	11.90	1988/05/01	19.90
1981/10/01	8.20	1985/02/01	12.40	1988/06/01	20.00
1981/11/01	8.30	1985/03/01	12.40	1988/07/01	19.10
1981/12/01	8.30	1985/04/01	12.70	1988/08/01	20.50
1982/01/01	8.30	1985/05/01	12.80	1988/09/01	20.80
1982/02/01	8.40	1985/06/01	13.00	1988/10/01	21.00
1982/03/01	8.60	1985/07/01	11.90	1988/11/01	21.20
1982/04/01	8.80	1985/08/01	13.20	1988/12/01	21.40
1982/05/01	8.80	1985/09/01	13.40	1989/01/01	21.70
1982/06/01	8.90	1985/10/01	13.60	1989/02/01	21.90
1982/07/01	8.30	1985/11/01	13.80	1989/03/01	22.30
1982/08/01	9.10	1985/12/01	14.00	1989/04/01	22.60
1982/09/01	9.20	1986/01/01	14.40	1989/05/01	22.90
1982/10/01	9.30	1986/02/01	14.60	1989/06/01	23.10
1982/11/01	9.40	1986/03/01	14.80	1989/07/01	21.70
1982/12/01	9.40	1986/04/01	15.00	1989/08/01	23.70
1983/01/01	9.50	1986/05/01	15.00	1989/09/01	23.90
1983/02/01	9.70	1986/06/01	15.20	1989/10/01	24.10
1983/03/01	9.80	1986/07/01	14.40	1989/11/01	24.40
1983/04/01	9.90	1986/08/01	15.70	1989/12/01	24.70
1983/05/01	9.90	1986/09/01	16.00	1990/01/01	25.00
1983/06/01	9.90	1986/10/01	16.20	1990/02/01	25.20
1983/07/01	9.50	1986/11/01	16.40	1990/03/01	25.60
1983/08/01	10.20	1986/12/01	16.60	1990/04/01	25.80
1983/09/01	10.30	1987/01/01	16.80	1990/05/01	26.10
1983/10/01	10.30	1987/02/01	17.00	1990/06/01	26.30
1983/11/01	10.40	1987/03/01	17.30	1990/07/01	25.00
1983/12/01	10.40	1987/04/01	17.50	1990/08/01	26.90
1984/01/01	10.50	1987/05/01	17.60	1990/09/01	27.30
1984/02/01	10.60	1987/06/01	17.80	1990/10/01	27.50
1984/03/01	10.80	1987/07/01	16.80	1990/11/01	28.10
1984/04/01	10.90	1987/08/01	18.30	1990/12/01	28.30
1984/05/01	11.10	1987/09/01	18.50	1991/01/01	28.60

Date	CPI (2008=100)	Date	CPI (2008=100)	Date	CPI (2008=100)
1991/02/01	28.90	1994/11/01	43.20	1998/08/01	57.30
1991/03/01	29.20	1994/12/01	43.30	1998/09/01	58.30
1991/04/01	29.60	1995/01/01	43.90	1998/10/01	58.60
1991/05/01	30.10	1995/02/01	44.10	1998/11/01	58.60
1991/06/01	30.30	1995/03/01	44.60	1998/12/01	58.60
1991/07/01	28.60	1995/04/01	45.10	1999/01/01	59.00
1991/08/01	31.10	1995/05/01	45.30	1999/02/01	59.00
1991/09/01	31.50	1995/06/01	45.30	1999/03/01	59.00
1991/10/01	32.10	1995/07/01	43.90	1999/04/01	59.10
1991/11/01	32.40	1995/08/01	45.60	1999/05/01	59.10
1991/12/01	32.90	1995/09/01	45.70	1999/06/01	59.40
1992/01/01	33.20	1995/10/01	45.80	1999/07/01	59.00
1992/02/01	33.50	1995/11/01	45.90	1999/08/01	59.20
1992/03/01	33.80	1995/12/01	46.30	1999/09/01	59.40
1992/04/01	34.20	1996/01/01	46.90	1999/10/01	59.60
1992/05/01	34.40	1996/02/01	46.90	1999/11/01	59.70
1992/06/01	34.80	1996/03/01	47.30	1999/12/01	59.90
1992/07/01	33.20	1996/04/01	47.60	2000/01/01	60.60
1992/08/01	35.50	1996/05/01	47.90	2000/02/01	60.40
1992/09/01	35.80	1996/06/01	48.40	2000/03/01	61.00
1992/10/01	35.80	1996/07/01	46.90	2000/04/01	61.80
1992/11/01	36.00	1996/08/01	49.00	2000/05/01	62.10
1992/12/01	36.00	1996/09/01	49.50	2000/06/01	62.40
1993/01/01	36.40	1996/10/01	49.90	2000/07/01	60.60
1993/02/01	36.50	1996/11/01	50.10	2000/08/01	63.30
1993/03/01	37.00	1996/12/01	50.60	2000/09/01	63.60
1993/04/01	38.00	1997/01/01	51.30	2000/10/01	63.80
1993/05/01	38.10	1997/02/01	51.60	2000/11/01	63.90
1993/06/01	38.30	1997/03/01	51.90	2000/12/01	64.10
1993/07/01	36.40	1997/04/01	52.30	2001/01/01	64.90
1993/08/01	38.80	1997/05/01	52.50	2001/02/01	65.10
1993/09/01	38.90	1997/06/01	52.60	2001/03/01	65.50
1993/10/01	39.30	1997/07/01	51.30	2001/04/01	65.80
1993/11/01	39.30	1997/08/01	53.30	2001/05/01	66.10
1993/12/01	39.40	1997/09/01	53.50	2001/06/01	66.40
1994/01/01	40.00	1997/10/01	53.80	2001/07/01	64.90
1994/02/01	40.10	1997/11/01	53.60	2001/08/01	66.20
1994/03/01	40.40	1997/12/01	53.80	2001/09/01	66.40
1994/04/01	40.60	1998/01/01	54.20	2001/10/01	66.30
1994/05/01	40.90	1998/02/01	54.30	2001/11/01	66.60
1994/06/01	41.10	1998/03/01	54.70	2001/12/01	67.00
1994/07/01	40.00	1998/04/01	54.90	2002/01/01	68.10
1994/08/01	42.40	1998/05/01	55.20	2002/02/01	68.90
1994/09/01	42.90	1998/06/01	55.40	2002/03/01	69.60
1994/10/01	43.10	1998/07/01	54.20	2002/04/01	70.70

Date	CPI (2008=100)	Date	CPI (2008=100)	Date	CPI (2008=100)
2002/05/01	71.20	2005/04/01	79.80	2008/03/01	96.20
2002/06/01	71.70	2005/05/01	79.80	2008/04/01	97.90
2002/07/01	68.10	2005/06/01	79.60	2008/05/01	99.00
2002/08/01	73.10	2005/07/01	78.40	2008/06/01	100.30
2002/09/01	73.80	2005/08/01	80.60	2008/07/01	94.40
2002/10/01	74.90	2005/09/01	80.90	2008/08/01	103.10
2002/11/01	75.20	2005/10/01	81.00	2008/09/01	103.30
2002/12/01	75.30	2005/11/01	80.90	2008/10/01	103.30
2003/01/01	76.00	2005/12/01	80.90	2008/11/01	103.40
2003/02/01	75.90	2006/01/01	81.50	2008/12/01	102.20
2003/03/01	76.70	2006/02/01	81.60	2009/01/01	103.10
2003/04/01	76.90	2006/03/01	82.00	2009/02/01	104.30
2003/05/01	76.80	2006/04/01	82.40	2009/03/01	105.70
2003/06/01	76.50	2006/05/01	82.90	2009/04/01	106.20
2003/07/01	76.00	2006/06/01	83.50	2009/05/01	106.60
2003/08/01	76.80	2006/07/01	81.50	2009/06/01	107.00
2003/09/01	76.60	2006/08/01	85.00	2009/07/01	108.20
2003/10/01	76.10	2006/09/01	85.20	2009/08/01	108.50
2003/11/01	75.50	2006/10/01	85.40	2009/09/01	108.90
2003/12/01	75.60	2006/11/01	85.30	2009/10/01	108.90
2004/01/01	76.10	2006/12/01	85.60	2009/11/01	108.90
2004/02/01	76.50	2007/01/01	86.40	2009/12/01	109.20
2004/03/01	77.00	2007/02/01	86.30	2010/01/01	109.50
2004/04/01	77.10	2007/03/01	87.00	2010/02/01	110.20
2004/05/01	77.20	2007/04/01	88.10	2010/03/01	111.10
2004/06/01	77.40	2007/05/01	88.60	2010/04/01	111.30
2004/07/01	76.10	2007/06/01	89.40	2010/05/01	111.50
2004/08/01	77.60	2007/07/01	86.40	2010/06/01	111.50
2004/09/01	77.60	2007/08/01	90.70	2010/07/01	112.20
2004/10/01	77.90	2007/09/01	91.30	2010/08/01	112.30
2004/11/01	78.30	2007/10/01	92.10	2010/09/01	112.40
2004/12/01	78.10	2007/11/01	92.50	2010/10/01	112.60
2005/01/01	78.40	2007/12/01	93.30	2010/11/01	112.80
2005/02/01	78.50	2008/01/01	94.40	2010/12/01	113.00
2005/03/01	79.30	2008/02/01	94.70		

## Production price index

The annual production price index data is provided in Table A.3. This data is collected from 1961 to 2010 using 2000 as the base year.

**Table A. 3: Annual production price index (PPI)**

Date	PPI (2000=100)	Date	PPI (2000=100)
1961/01/01	3.20	1987/01/01	32.80
1963/01/01	3.30	1988/01/01	37.20
1964/01/01	3.40	1989/01/01	42.80
1965/01/01	3.50	1990/01/01	47.90
1966/01/01	3.50	1991/01/01	53.40
1967/01/01	3.60	1992/01/01	57.80
1968/01/01	3.70	1993/01/01	61.70
1969/01/01	3.80	1994/01/01	66.80
1970/01/01	3.90	1995/01/01	73.20
1971/01/01	4.10	1996/01/01	78.10
1972/01/01	4.40	1997/01/01	83.70
1973/01/01	5.00	1998/01/01	86.60
1974/01/01	5.90	1999/01/01	91.60
1975/01/01	6.90	2000/01/01	100.00
1976/01/01	8.00	2001/01/01	108.40
1977/01/01	9.00	2002/01/01	118.80
1978/01/01	9.90	2003/01/01	125.90
1979/01/01	11.40	2004/01/01	126.70
1980/01/01	13.30	2005/01/01	130.60
1981/01/01	15.10	2006/01/01	142.50
1982/01/01	17.20	2007/01/01	158.10
1983/01/01	19.00	2008/01/01	180.85
1984/01/01	20.60	2009/01/01	180.79
1985/01/01	24.10	2010/01/01	192.40
1986/01/01	28.80		

The monthly production price index data is provided in Table A.4. This data is collected from 1961 to 2010 using the year 2000 as the base year.

**Table A. 4: Monthly production price index (PPI)**

Date	PPI (2000=100)	Date	PPI (2000=100)	Date	PPI (2000=100)
1961/01/01	3.20	1964/05/01	3.30	1967/08/01	3.70
1961/03/01	3.20	1964/06/01	3.30	1967/09/01	3.70
1961/04/01	3.20	1964/07/01	3.30	1967/10/01	3.70
1961/05/01	3.20	1964/08/01	3.40	1967/11/01	3.70
1961/06/01	3.20	1964/09/01	3.40	1967/12/01	3.70
1961/07/01	3.20	1964/10/01	3.40	1968/01/01	3.70
1961/08/01	3.20	1964/11/01	3.40	1968/02/01	3.70
1961/09/01	3.20	1964/12/01	3.40	1968/03/01	3.70
1961/10/01	3.20	1965/01/01	3.40	1968/04/01	3.70
1961/11/01	3.20	1965/02/01	3.40	1968/05/01	3.70
1961/12/01	3.20	1965/03/01	3.40	1968/06/01	3.70
1962/01/01	3.20	1965/04/01	3.40	1968/07/01	3.70
1962/02/01	3.20	1965/05/01	3.40	1968/08/01	3.70
1962/03/01	3.20	1965/06/01	3.40	1968/09/01	3.70
1962/04/01	3.20	1965/07/01	3.40	1968/10/01	3.70
1962/05/01	3.20	1965/08/01	3.40	1968/11/01	3.70
1962/06/01	3.20	1965/09/01	3.40	1968/12/01	3.70
1962/07/01	3.20	1965/10/01	3.40	1969/01/01	3.70
1962/08/01	3.20	1965/11/01	3.40	1969/02/01	3.70
1962/09/01	3.20	1965/12/01	3.40	1969/03/01	3.70
1962/10/01	3.20	1966/01/01	3.40	1969/04/01	3.80
1962/11/01	3.20	1966/02/01	3.50	1969/05/01	3.80
1962/12/01	3.20	1966/03/01	3.50	1969/06/01	3.70
1963/01/01	3.20	1966/04/01	3.50	1969/07/01	3.80
1963/02/01	3.20	1966/05/01	3.50	1969/08/01	3.80
1963/03/01	3.20	1966/06/01	3.50	1969/09/01	3.80
1963/04/01	3.20	1966/07/01	3.50	1969/10/01	3.80
1963/05/01	3.20	1966/08/01	3.60	1969/11/01	3.80
1963/06/01	3.20	1966/09/01	3.60	1969/12/01	3.80
1963/07/01	3.20	1966/10/01	3.70	1970/01/01	3.80
1963/08/01	3.20	1966/11/01	3.70	1970/02/01	3.80
1963/09/01	3.20	1966/12/01	3.70	1970/03/01	3.80
1963/10/01	3.20	1967/01/01	3.60	1970/04/01	3.80
1963/11/01	3.20	1967/02/01	3.60	1970/05/01	3.80
1963/12/01	3.20	1967/03/01	3.60	1970/06/01	3.90
1964/01/01	3.20	1967/04/01	3.70	1970/07/01	4.00
1964/02/01	3.20	1967/05/01	3.70	1970/08/01	4.00
1964/03/01	3.20	1967/06/01	3.70	1970/09/01	4.00
1964/04/01	3.30	1967/07/01	3.70	1970/10/01	4.00

Date	PPI (2000=100)	Date	PPI (2000=100)	Date	PPI (2000=100)
1970/11/01	4.00	1974/08/01	6.20	1978/05/01	9.80
1970/12/01	4.00	1974/09/01	6.20	1978/06/01	9.90
1971/01/01	4.00	1974/10/01	6.20	1978/07/01	9.90
1971/02/01	4.00	1974/11/01	6.30	1978/08/01	10.00
1971/03/01	4.00	1974/12/01	6.40	1978/09/01	10.00
1971/04/01	4.00	1975/01/01	6.50	1978/10/01	10.20
1971/05/01	4.10	1975/02/01	6.50	1978/11/01	10.30
1971/06/01	4.10	1975/03/01	6.60	1978/12/01	10.40
1971/07/01	0.30	1975/04/01	6.60	1979/01/01	10.60
1971/08/01	4.10	1975/05/01	6.70	1979/02/01	10.60
1971/09/01	4.10	1975/06/01	6.70	1979/03/01	10.80
1971/10/01	4.20	1975/07/01	7.00	1979/04/01	10.80
1971/11/01	4.20	1975/08/01	7.00	1979/05/01	11.10
1971/12/01	4.20	1975/09/01	7.10	1979/06/01	11.40
1972/01/01	4.20	1975/10/01	7.30	1979/07/01	11.70
1972/02/01	4.30	1975/11/01	7.40	1979/08/01	11.90
1972/03/01	4.30	1975/12/01	7.50	1979/09/01	11.90
1972/04/01	4.30	1976/01/01	7.50	1979/10/01	12.00
1972/05/01	4.30	1976/02/01	7.50	1979/11/01	12.10
1972/06/01	4.40	1976/03/01	7.70	1979/12/01	12.20
1972/07/01	4.50	1976/04/01	7.80	1980/01/01	12.40
1972/08/01	4.50	1976/05/01	7.80	1980/02/01	12.50
1972/09/01	4.50	1976/06/01	7.90	1980/03/01	12.70
1972/10/01	4.60	1976/07/01	8.00	1980/04/01	12.80
1972/11/01	4.60	1976/08/01	8.10	1980/05/01	13.00
1972/12/01	4.60	1976/09/01	8.20	1980/06/01	13.10
1973/01/01	4.70	1976/10/01	8.40	1980/07/01	13.30
1973/02/01	4.80	1976/11/01	8.40	1980/08/01	13.50
1973/03/01	4.90	1976/12/01	8.50	1980/09/01	13.80
1973/04/01	4.80	1977/01/01	8.60	1980/10/01	14.00
1973/05/01	4.90	1977/02/01	8.70	1980/11/01	14.10
1973/06/01	5.00	1977/03/01	8.90	1980/12/01	14.40
1973/07/01	5.10	1977/04/01	8.90	1981/01/01	14.40
1973/08/01	5.10	1977/05/01	9.00	1981/02/01	14.50
1973/09/01	5.10	1977/06/01	9.10	1981/03/01	14.60
1973/10/01	5.20	1977/07/01	9.10	1981/04/01	14.70
1973/11/01	5.30	1977/08/01	9.10	1981/05/01	14.70
1973/12/01	5.40	1977/09/01	9.20	1981/06/01	15.00
1974/01/01	5.40	1977/10/01	9.20	1981/07/01	15.20
1974/02/01	5.50	1977/11/01	9.30	1981/08/01	15.30
1974/03/01	5.60	1977/12/01	9.40	1981/09/01	15.50
1974/04/01	5.60	1978/01/01	9.50	1981/10/01	15.60
1974/05/01	5.70	1978/02/01	9.60	1981/11/01	15.80
1974/06/01	5.90	1978/03/01	9.70	1981/12/01	16.00
1974/07/01	6.00	1978/04/01	9.70	1982/01/01	16.20

Date	PPI (2000=100)	Date	PPI (2000=100)	Date	PPI (2000=100)
1982/02/01	16.40	1985/11/01	25.90	1989/08/01	43.70
1982/03/01	16.50	1985/12/01	26.50	1989/09/01	43.90
1982/04/01	16.80	1986/01/01	27.10	1989/10/01	44.30
1982/05/01	16.90	1986/02/01	27.40	1989/11/01	44.60
1982/06/01	17.20	1986/03/01	27.50	1989/12/01	45.10
1982/07/01	17.40	1986/04/01	27.80	1990/01/01	45.50
1982/08/01	17.50	1986/05/01	28.20	1990/02/01	45.80
1982/09/01	17.70	1986/06/01	28.40	1990/03/01	46.00
1982/10/01	18.00	1986/07/01	28.90	1990/04/01	46.60
1982/11/01	18.10	1986/08/01	29.30	1990/05/01	47.10
1982/12/01	18.30	1986/09/01	29.60	1990/06/01	47.40
1983/01/01	18.30	1986/10/01	30.10	1990/07/01	47.70
1983/02/01	18.50	1986/11/01	30.60	1990/08/01	48.20
1983/03/01	18.60	1986/12/01	30.90	1990/09/01	49.00
1983/04/01	18.80	1987/01/01	31.20	1990/10/01	49.60
1983/05/01	18.90	1987/02/01	31.40	1990/11/01	51.20
1983/06/01	19.00	1987/03/01	31.80	1990/12/01	51.20
1983/07/01	19.10	1987/04/01	32.20	1991/01/01	52.00
1983/08/01	19.30	1987/05/01	32.30	1991/02/01	52.10
1983/09/01	19.40	1987/06/01	32.60	1991/03/01	52.00
1983/10/01	19.40	1987/07/01	32.90	1991/04/01	52.00
1983/11/01	19.40	1987/08/01	33.30	1991/05/01	52.40
1983/12/01	19.60	1987/09/01	33.70	1991/06/01	52.80
1984/01/01	19.60	1987/10/01	34.00	1991/07/01	53.60
1984/02/01	19.80	1987/11/01	34.20	1991/08/01	53.90
1984/03/01	19.90	1987/12/01	34.50	1991/09/01	54.50
1984/04/01	20.20	1988/01/01	34.80	1991/10/01	55.00
1984/05/01	20.20	1988/02/01	35.30	1991/11/01	55.10
1984/06/01	20.50	1988/03/01	35.70	1991/12/01	55.40
1984/07/01	20.60	1988/04/01	36.10	1992/01/01	55.50
1984/08/01	20.80	1988/05/01	36.60	1992/02/01	55.60
1984/09/01	21.10	1988/06/01	37.10	1992/03/01	56.30
1984/10/01	21.30	1988/07/01	37.50	1992/04/01	56.70
1984/11/01	21.60	1988/08/01	37.80	1992/05/01	57.00
1984/12/01	21.80	1988/09/01	38.20	1992/06/01	58.00
1985/01/01	22.20	1988/10/01	38.50	1992/07/01	58.60
1985/02/01	22.70	1988/11/01	38.90	1992/08/01	59.10
1985/03/01	22.90	1988/12/01	39.40	1992/09/01	59.20
1985/04/01	23.10	1989/01/01	39.90	1992/10/01	59.20
1985/05/01	23.60	1989/02/01	40.50	1992/11/01	59.10
1985/06/01	23.90	1989/03/01	41.30	1992/12/01	59.20
1985/07/01	24.20	1989/04/01	41.80	1993/01/01	59.60
1985/08/01	24.40	1989/05/01	42.40	1993/02/01	60.30
1985/09/01	24.70	1989/06/01	42.70	1993/03/01	60.80
1985/10/01	25.00	1989/07/01	43.30	1993/04/01	61.20

Date	PPI (2000=100)	Date	PPI (2000=100)	Date	PPI (2000=100)
1993/05/01	61.30	1997/02/01	82.70	2000/11/01	103.70
1993/06/01	61.60	1997/03/01	82.80	2000/12/01	104.30
1993/07/01	62.00	1997/04/01	83.00	2001/01/01	104.80
1993/08/01	62.30	1997/05/01	83.80	2001/02/01	105.20
1993/09/01	62.30	1997/06/01	83.60	2001/03/01	105.50
1993/10/01	62.40	1997/07/01	83.80	2001/04/01	106.60
1993/11/01	62.70	1997/08/01	83.90	2001/05/01	107.30
1993/12/01	63.00	1997/09/01	84.30	2001/06/01	108.10
1994/01/01	63.60	1997/10/01	84.40	2001/07/01	108.70
1994/02/01	64.30	1997/11/01	84.70	2001/08/01	109.40
1994/03/01	64.70	1997/12/01	85.00	2001/09/01	109.50
1994/04/01	65.10	1998/01/01	85.00	2001/10/01	111.10
1994/05/01	65.80	1998/02/01	84.70	2001/11/01	112.20
1994/06/01	66.40	1998/03/01	84.70	2001/12/01	112.90
1994/07/01	67.30	1998/04/01	85.50	2002/01/02	116.90
1994/08/01	68.20	1998/05/01	85.80	2002/02/02	119.10
1994/09/01	68.40	1998/06/01	86.00	2002/03/02	120.40
1994/10/01	68.50	1998/07/01	86.90	2002/04/02	122.40
1994/11/01	68.80	1998/08/01	87.60	2002/05/02	123.30
1994/12/01	69.40	1998/09/01	88.00	2002/06/02	123.70
1995/01/01	70.60	1998/10/01	88.30	2002/07/02	125.20
1995/02/01	71.30	1998/11/01	88.80	2002/08/02	126.20
1995/03/01	71.80	1998/12/01	88.50	2002/09/02	126.40
1995/04/01	72.60	1999/01/01	88.70	2002/10/02	127.30
1995/05/01	73.00	1999/02/01	89.00	2002/11/02	127.80
1995/06/01	73.30	1999/03/01	89.30	2002/12/02	126.90
1995/07/01	73.50	1999/04/01	89.60	2003/01/03	126.40
1995/08/01	73.70	1999/05/01	90.90	2003/02/03	126.50
1995/09/01	73.80	1999/06/01	91.50	2003/03/03	126.50
1995/10/01	74.30	1999/07/01	92.30	2003/04/03	126.50
1995/11/01	74.50	1999/08/01	92.80	2003/05/03	124.80
1995/12/01	75.10	1999/09/01	92.90	2003/06/03	126.60
1996/01/01	75.40	1999/10/01	93.50	2003/07/03	127.10
1996/02/01	75.60	1999/11/01	94.30	2003/08/03	126.50
1996/03/01	75.50	1999/12/01	94.90	2003/09/03	125.10
1996/04/01	76.30	2000/01/01	95.90	2003/10/03	125.00
1996/05/01	77.30	2000/02/01	96.50	2003/11/03	124.60
1996/06/01	77.80	2000/03/01	97.00	2003/12/03	124.60
1996/07/01	78.40	2000/04/01	98.70	2004/01/04	124.60
1996/08/01	79.20	2000/05/01	98.80	2004/02/04	125.20
1996/09/01	79.50	2000/06/01	99.50	2004/03/04	125.00
1996/10/01	80.50	2000/07/01	100.20	2004/04/04	126.30
1996/11/01	80.80	2000/08/01	101.40	2004/05/04	126.30
1996/12/01	81.70	2000/09/01	101.70	2004/06/04	128.30
1997/01/01	82.30	2000/10/01	102.50	2004/07/04	128.00

Date	PPI (2000=100)	Date	PPI (2000=100)	Date	PPI (2000=100)
2004/08/04	127.90	2006/10/06	148.30	2008/12/08	181.30
2004/09/04	126.80	2006/11/06	149.50	2009/01/01	180.00
2004/10/04	127.40	2006/12/06	149.10	2009/02/01	179.40
2004/11/04	127.70	2007/01/07	149.30	2009/03/01	179.60
2004/12/04	127.00	2007/02/07	150.20	2009/04/01	179.20
2005/01/05	126.40	2007/03/07	152.50	2009/05/01	177.20
2005/02/05	126.70	2007/04/07	154.90	2009/06/01	179.90
2005/03/05	127.40	2007/05/07	157.00	2009/07/01	185.20
2005/04/05	128.60	2007/06/07	160.50	2009/08/01	185.80
2005/05/05	129.30	2007/07/07	161.90	2009/09/01	179.80
2005/06/05	131.20	2007/08/07	160.90	2009/10/01	179.70
2005/07/05	132.60	2007/09/07	162.30	2009/11/01	181.20
2005/08/05	133.30	2007/10/07	162.90	2009/12/01	182.50
2005/09/05	132.60	2007/11/07	163.30	2010/01/01	184.90
2005/10/05	132.70	2007/12/07	158.10	2010/02/01	185.60
2005/11/05	133.40	2008/01/08	164.90	2010/03/01	186.20
2005/12/05	133.50	2008/02/08	167.20	2010/04/01	189.00
2006/01/06	134.80	2008/03/08	170.60	2010/05/01	189.30
2006/02/06	134.90	2008/04/08	174.10	2010/06/01	196.80
2006/03/06	135.60	2008/05/08	182.70	2010/07/01	199.40
2006/04/06	136.90	2008/06/08	187.50	2010/08/01	200.20
2006/05/06	138.70	2008/07/08	192.50	2010/09/01	192.00
2006/06/06	142.60	2008/08/08	193.50	2010/10/01	191.20
2006/07/06	145.10	2008/09/08	186.70	2010/11/01	192.50
2006/08/06	148.30	2008/10/08	185.80	2010/12/01	193.00
2006/09/06	147.20	2008/11/08	183.40		

## Exchange rates

The historical foreign exchange rate of South Africa compared to the US\$ is shown in Table A.5. This foreign exchange rates were collected on annual basis from 1970 to 2010.

**Table A. 5: Annual foreign currency exchange rates**

Date	SA c/US\$	Date	SA c/US\$
1970/01/01	71.94	2007/01/01	709.38
1972/01/01	78.48	2008/01/01	705.44
1973/01/01	67.29	2009/01/01	843.72
1974/01/01	69.14	2010/01/01	732.22
1975/01/01	87.18		
1976/01/01	87.18		
1977/01/01	87.18		
1978/01/01	86.96		
1979/01/01	84.20		
1980/01/01	77.88		
1981/01/01	87.75		
1982/01/01	108.59		
1983/01/01	111.41		
1984/01/01	147.57		
1985/01/01	222.78		
1986/01/01	228.35		
1987/01/01	203.57		
1988/01/01	227.26		
1989/01/01	262.22		
1990/01/01	258.77		
1991/01/01	276.09		
1992/01/01	285.16		
1993/01/01	326.67		
1994/01/01	354.97		
1995/01/01	362.70		
1996/01/01	429.64		
1997/01/01	460.73		
1998/01/01	553.92		
1999/01/01	612.13		
2000/01/01	694.34		
2001/01/01	861.87		
2002/01/01	1145.45		
2003/01/01	756.47		
2004/01/01	644.99		
2005/01/01	634.81		
2006/01/01	674.66		

The historical foreign exchange rate of South African currency is showed in Table A.6. This foreign exchange rates are collected on monthly basis from 1970 to 2010.

**Table A. 6: Monthly foreign currency exchange rates (SA cents/US\$)**

Date	SA c/US\$	Date	SA c/US\$	Date	SA c/US\$
1970/01/01	71.70	1973/05/01	70.60	1976/08/01	87.20
1970/03/01	71.60	1973/06/01	67.30	1976/09/01	87.20
1970/04/01	71.60	1973/07/01	67.30	1976/10/01	87.20
1970/05/01	71.70	1973/08/01	67.30	1976/11/01	87.20
1970/06/01	71.90	1973/09/01	67.30	1976/12/01	87.20
1970/07/01	72.00	1973/10/01	67.30	1977/01/01	87.20
1970/08/01	72.20	1973/11/01	67.30	1977/02/01	87.20
1970/09/01	72.20	1973/12/01	67.30	1977/03/01	87.20
1970/10/01	72.00	1974/01/01	67.30	1977/04/01	87.20
1970/11/01	72.00	1974/02/01	67.30	1977/05/01	87.20
1970/12/01	71.90	1974/03/01	67.30	1977/06/01	87.20
1971/01/01	71.30	1974/04/01	67.30	1977/07/01	87.20
1971/02/01	71.20	1974/05/01	67.30	1977/08/01	87.20
1971/03/01	71.20	1974/06/01	66.80	1977/09/01	87.20
1971/04/01	71.20	1974/07/01	66.80	1977/10/01	87.20
1971/05/01	71.20	1974/08/01	69.00	1977/11/01	87.20
1971/06/01	71.20	1974/09/01	70.10	1977/12/01	87.20
1971/07/01	71.20	1974/10/01	70.10	1978/01/01	87.00
1971/08/01	71.60	1974/11/01	69.10	1978/02/01	87.00
1971/09/01	71.60	1974/12/01	69.10	1978/03/01	87.00
1971/10/01	71.60	1975/01/01	68.20	1978/04/01	87.00
1971/11/01	71.60	1975/02/01	67.30	1978/05/01	87.00
1971/12/01	76.80	1975/03/01	67.30	1978/06/01	87.00
1972/01/01	75.70	1975/04/01	67.30	1978/07/01	87.00
1972/02/01	75.30	1975/05/01	68.20	1978/08/01	87.00
1972/03/01	75.00	1975/06/01	68.20	1978/09/01	87.00
1972/04/01	75.10	1975/07/01	71.60	1978/10/01	87.00
1972/05/01	75.10	1975/08/01	71.60	1978/11/01	87.00
1972/06/01	79.70	1975/09/01	87.20	1978/12/01	87.00
1972/07/01	80.10	1975/10/01	87.20	1979/01/01	87.00
1972/08/01	80.00	1975/11/01	87.20	1979/02/01	85.60
1972/09/01	81.00	1975/12/01	87.20	1979/03/01	84.40
1972/10/01	78.50	1976/01/01	87.20	1979/04/01	84.70
1972/11/01	78.50	1976/02/01	87.20	1979/05/01	84.60
1972/12/01	78.50	1976/03/01	87.20	1979/06/01	84.50
1973/01/01	78.50	1976/04/01	87.20	1979/07/01	84.40
1973/02/01	70.60	1976/05/01	87.20	1979/08/01	83.70
1973/03/01	70.60	1976/06/01	87.20	1979/09/01	83.20
1973/04/01	70.60	1976/07/01	87.20	1979/10/01	82.80

Date	SA c/US\$	Date	SA c/US\$	Date	SA c/US\$
1979/11/01	83.00	1983/08/01	111.50	1987/05/01	200.30
1979/12/01	82.80	1983/09/01	111.30	1987/06/01	202.20
1980/01/01	82.10	1983/10/01	112.30	1987/07/01	205.80
1980/02/01	81.40	1983/11/01	118.80	1987/08/01	207.60
1980/03/01	80.90	1983/12/01	121.60	1987/09/01	204.40
1980/04/01	80.60	1984/01/01	125.50	1987/10/01	204.80
1980/05/01	79.00	1984/02/01	123.00	1987/11/01	197.30
1980/06/01	77.50	1984/03/01	121.60	1987/12/01	195.00
1980/07/01	76.50	1984/04/01	124.60	1988/01/01	197.30
1980/08/01	76.00	1984/05/01	127.60	1988/02/01	204.80
1980/09/01	75.30	1984/06/01	130.60	1988/03/01	213.10
1980/10/01	75.00	1984/07/01	149.30	1988/04/01	214.40
1980/11/01	75.00	1984/08/01	157.30	1988/05/01	220.80
1980/12/01	75.20	1984/09/01	165.90	1988/06/01	226.80
1981/01/01	74.80	1984/10/01	176.40	1988/07/01	239.10
1981/02/01	77.30	1984/11/01	180.30	1988/08/01	245.20
1981/03/01	79.00	1984/12/01	188.90	1988/09/01	245.20
1981/04/01	81.00	1985/01/01	216.30	1988/10/01	246.60
1981/05/01	83.70	1985/02/01	196.20	1988/11/01	239.30
1981/06/01	86.80	1985/03/01	199.20	1988/12/01	234.40
1981/07/01	92.10	1985/04/01	193.30	1989/01/01	236.60
1981/08/01	95.00	1985/05/01	199.00	1989/02/01	245.90
1981/09/01	94.70	1985/06/01	197.60	1989/03/01	253.60
1981/10/01	95.50	1985/07/01	195.20	1989/04/01	254.60
1981/11/01	96.20	1985/08/01	234.70	1989/05/01	267.80
1981/12/01	96.90	1985/09/01	248.80	1989/06/01	278.50
1982/01/01	96.60	1985/10/01	259.50	1989/07/01	269.50
1982/02/01	98.00	1985/11/01	265.50	1989/08/01	272.00
1982/03/01	102.00	1985/12/01	267.50	1989/09/01	278.60
1982/04/01	105.20	1986/01/01	235.30	1989/10/01	267.20
1982/05/01	106.20	1986/02/01	208.60	1989/11/01	262.80
1982/06/01	111.50	1986/03/01	202.50	1989/12/01	257.40
1982/07/01	114.80	1986/04/01	204.80	1990/01/01	255.60
1982/08/01	115.10	1986/05/01	218.90	1990/02/01	254.50
1982/09/01	115.10	1986/06/01	252.80	1990/03/01	261.30
1982/10/01	115.90	1986/07/01	254.80	1990/04/01	265.50
1982/11/01	114.10	1986/08/01	259.40	1990/05/01	264.50
1982/12/01	108.60	1986/09/01	231.40	1990/06/01	266.40
1983/01/01	106.50	1986/10/01	224.50	1990/07/01	262.90
1983/02/01	109.70	1986/11/01	225.10	1990/08/01	257.30
1983/03/01	109.00	1986/12/01	222.10	1990/09/01	257.00
1983/04/01	109.30	1987/01/01	208.80	1990/10/01	254.50
1983/05/01	108.30	1987/02/01	208.80	1990/11/01	252.40
1983/06/01	109.00	1987/03/01	207.00	1990/12/01	253.20
1983/07/01	109.60	1987/04/01	201.50	1991/01/01	256.30

Date	SA c/US\$	Date	SA c/US\$	Date	SA c/US\$
1991/02/01	253.90	1994/11/01	352.40	1998/08/01	632.50
1991/03/01	264.80	1994/12/01	356.00	1998/09/01	613.40
1991/04/01	274.10	1995/01/01	353.80	1998/10/01	581.70
1991/05/01	279.50	1995/02/01	355.90	1998/11/01	567.00
1991/06/01	286.40	1995/03/01	359.90	1998/12/01	590.00
1991/07/01	288.10	1995/04/01	360.10	1999/01/01	599.80
1991/08/01	287.10	1995/05/01	365.80	1999/02/01	612.00
1991/09/01	283.60	1995/06/01	366.20	1999/03/01	621.90
1991/10/01	283.10	1995/07/01	364.10	1999/04/01	612.60
1991/11/01	279.50	1995/08/01	364.10	1999/05/01	619.20
1991/12/01	276.80	1995/09/01	366.20	1999/06/01	609.50
1992/01/01	277.80	1995/10/01	365.10	1999/07/01	611.20
1992/02/01	281.50	1995/11/01	364.80	1999/08/01	613.60
1992/03/01	288.10	1995/12/01	366.50	1999/09/01	606.40
1992/04/01	287.90	1996/01/01	364.10	1999/10/01	609.80
1992/05/01	284.70	1996/02/01	371.00	1999/11/01	614.20
1992/06/01	281.00	1996/03/01	390.00	1999/12/01	615.20
1992/07/01	275.30	1996/04/01	414.00	2000/01/01	612.80
1992/08/01	276.30	1996/05/01	438.00	2000/02/01	631.80
1992/09/01	279.80	1996/06/01	435.00	2000/03/01	646.30
1992/10/01	288.40	1996/07/01	438.90	2000/04/01	662.40
1992/11/01	299.60	1996/08/01	452.40	2000/05/01	703.50
1992/12/01	301.40	1996/09/01	449.70	2000/06/01	693.10
1993/01/01	306.80	1996/10/01	457.30	2000/07/01	688.10
1993/02/01	312.00	1996/11/01	465.60	2000/08/01	695.90
1993/03/01	317.90	1996/12/01	468.20	2000/09/01	717.40
1993/04/01	316.80	1997/01/01	464.40	2000/10/01	748.00
1993/05/01	317.60	1997/02/01	445.30	2000/11/01	768.50
1993/06/01	323.40	1997/03/01	443.60	2000/12/01	764.40
1993/07/01	335.00	1997/04/01	444.10	2001/01/01	776.80
1993/08/01	336.50	1997/05/01	446.80	2001/02/01	782.40
1993/09/01	340.70	1997/06/01	449.80	2001/03/01	789.20
1993/10/01	339.50	1997/07/01	455.70	2001/04/01	808.20
1993/11/01	336.40	1997/08/01	468.40	2001/05/01	796.90
1993/12/01	337.50	1997/09/01	469.00	2001/06/01	806.00
1994/01/01	340.90	1997/10/01	470.90	2001/07/01	820.10
1994/02/01	345.00	1997/11/01	483.60	2001/08/01	831.10
1994/03/01	345.40	1997/12/01	487.10	2001/09/01	863.70
1994/04/01	358.50	1998/01/01	494.10	2001/10/01	926.90
1994/05/01	362.50	1998/02/01	493.80	2001/11/01	971.60
1994/06/01	362.50	1998/03/01	497.30	2001/12/01	1169.60
1994/07/01	366.80	1998/04/01	504.80	2002/01/01	1166.80
1994/08/01	359.90	1998/05/01	509.40	2002/02/01	1150.00
1994/09/01	355.60	1998/06/01	537.90	2002/03/01	1151.90
1994/10/01	353.90	1998/07/01	625.30	2002/04/01	1113.40

Date	SA c/US\$	Date	SA c/US\$	Date	SA c/US\$
2002/05/01	1014.72	2006/02/01	614.08	2009/11/01	751.82
2002/06/01	1013.92	2006/03/01	613.73	2009/12/01	748.94
2002/07/01	1011.37	2006/04/01	626.00	2010/01/01	745.27
2002/08/01	1058.94	2006/05/01	609.05	2010/02/01	766.12
2002/09/01	1060.44	2006/06/01	634.00	2010/03/01	742.58
2002/10/01	1032.80	2006/07/01	698.60	2010/04/01	734.34
2002/11/01	965.09	2006/08/01	712.76	2010/05/01	763.32
2002/12/01	895.97	2006/09/01	597.05	2010/06/01	764.73
2003/01/01	868.16	2006/10/01	743.47	2010/07/01	754.68
2003/02/01	830.31	2006/11/01	770.01	2010/08/01	729.73
2003/03/01	804.39	2006/12/01	730.83	2010/09/01	713.89
2003/04/01	770.68	2007/01/01	706.09	2010/10/01	691.77
2003/05/01	766.52	2007/02/01	719.29	2010/11/01	697.20
2003/06/01	790.27	2007/03/01	719.56	2010/12/01	682.94
2003/07/01	754.81	2007/04/01	738.41		
2003/08/01	739.22	2007/05/01	716.80		
2003/09/01	732.46	2007/06/01	704.57		
2003/10/01	696.37	2007/07/01	719.48		
2003/11/01	672.87	2007/08/01	697.82		
2003/12/01	651.59	2007/09/01	723.56		
2004/01/01	691.79	2007/10/01	715.80		
2004/02/01	676.86	2007/11/01	678.77		
2004/03/01	663.28	2007/12/01	672.43		
2004/04/01	655.37	2008/01/01	698.71		
2004/05/01	678.21	2008/02/01	763.86		
2004/06/01	643.51	2008/03/01	797.99		
2004/07/01	612.87	2008/04/01	779.33		
2004/08/01	645.75	2008/05/01	762.38		
2004/09/01	654.69	2008/06/01	791.88		
2004/10/01	638.76	2008/07/01	763.93		
2004/11/01	605.58	2008/08/01	765.78		
2004/12/01	573.23	2008/09/01	804.72		
2005/01/01	596.98	2008/10/01	967.15		
2005/02/01	601.61	2008/11/01	1011.77		
2005/03/01	601.03	2008/12/01	994.56		
2005/04/01	615.21	2009/01/01	989.70		
2005/05/01	633.14	2009/02/01	1000.62		
2005/06/01	675.00	2009/03/01	999.32		
2005/07/01	670.35	2009/04/01	901.80		
2005/08/01	646.50	2009/05/01	837.23		
2005/09/01	635.78	2009/06/01	805.18		
2005/10/01	657.66	2009/07/01	795.13		
2005/11/01	665.65	2009/08/01	794.15		
2005/12/01	635.91	2009/09/01	752.35		
2006/01/01	637.62	2009/10/01	748.33		

## APPENDIX B: FUEL PROPERTIES

**Table B. 1: Calorific values of various fuels**

Carrier	Calorific Value	Calorific Value Unit	Density
LPG	26.7	MJ/l	0.54
Paraffin Power	37.5	MJ/l	0.81
Gas SASOL	18.0	MJ/m <sup>3</sup>	
Diesel	38.1	MJ/l	0.84
Electricity	3.6	MJ/kWh	
Gas	41.0	MJ/m <sup>3</sup>	
Heavy Fuel Oil	41.6	MJ/l	0.98
Petrol	34.2	MJ/l	0.72
Paraffin Illuminating CSS (StatsSA) Data	37.0	MJ/l	0.79
Aviation Gas	33.9	MJ/l	0.73
Jet Fuel	34.3	MJ/l	0.79
Coal Eskom Average	20.1	MJ/kg	
Coal (General purpose)	24.3	MJ/kg	
Coal (Coking)	30.1	MJ/kg	
Coke	27.9	MJ/kg	
Coke oven gas	17.3	MJ/m <sup>3</sup>	
Blast furnace gas	3.1	MJ/m <sup>3</sup>	
Bagasse (wet)	7.0	MJ/kg	
Bagasse fibre (dry)	14.0	MJ/kg	
Biomass (wood dry typical)	17.0	MJ/kg	
Gas Sasol - methane rich	35.0	MJ/m <sup>3</sup>	

## APPENDIX C: UNIT CONVERSIONS

**Table C. 1: Energy unit conversion factors**

From \ To	J	kWh	toe	Btu
1 J	1	$0.278 \times 10^{-6}$	$0.2388 \times 10^{-6}$	$0.948 \times 10^{-3}$
1 kWh	$3.6 \times 10^6$	1	$0.86 \times 10^{-6}$	$3.412 \times 10^3$
1 toe	$42 \times 10^9$	11630	1	$39.68 \times 10^6$
1 Btu	$1.055 \times 10^3$	$0.293 \times 10^{-3}$	$0.252 \times 10^{-9}$	1

Note: toe = ton oil equivalent

**Table C. 2: Unit prefixes**

Prefix	Symbol	Power
Kilo	k	$10^3$
Mega	M	$10^6$
Giga	G	$10^9$
Tera	T	$10^{12}$
Peta	P	$10^{15}$
Exa	E	$10^{18}$

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