

COUNTRY NOTES

OECD Countries

Australia
Austria
Belgium
Canada
Czech Republic
Denmark
Finland
France
Germany
Greece
Hungary
Ireland
Italy
Japan

Korea
Luxembourg
Mexico
Netherlands
New Zealand
Norway
Poland
Portugal
Slovak Republic
Spain
Sweden
Switzerland
Turkey
United Kingdom
United States

Non-OECD Countries

People's Republic of China
Chinese Taipei
Cyprus
Estonia
India
Indonesia
Kazakhstan
Latvia

Lithuania
Malta
Romania
Russia
Singapore
Slovenia
South Africa
Thailand

AUSTRALIA

GENERAL NOTES

Prices refer to the second month of the quarter. See individual products for details.

General Sales Tax (GST): From 1 July 2000 onwards, a sales tax of 10% applies.

Excise Tax: From 1 July 2001 onwards, excise for all eligible activities is refunded, based on Governmental decision. Therefore the declared rate is the same as the excise rate for all activities.

OIL PRODUCTS

The prices shown are maximum endorsed wholesale prices and are determined with reference to the cost of indigenous and imported crude oil and refining, marketing and distribution costs.

The maximum endorsed wholesale prices are not mandatory, though they are accepted by the oil companies.

The relationship between maximum endorsed wholesale prices and realised wholesale prices varies from state to state and from time to time. Marketers cannot charge above the endorsed prices. However, they may drop prices at any time depending on market conditions but principally on the amount of competitive discounting.

Source: Australian Competition and Consumer Commission (ACCC).

Heavy Fuel Oil

From 17 August 1984 onwards, prices are not available based on the Price Surveillance Authority decision to confine its surveillance over petroleum products to the major transport fuels, thus excluding fuel oil.

Light Fuel Oil

From 17 August 1984 onwards, prices are not available based on the Price Surveillance Authority decision to confine its surveillance over petroleum products to the major transport fuels, thus excluding fuel oil.

Automotive Diesel Oil

Excise Taxes

State Government Business Franchise Fees (AUD/litre)

From	To	Simple Average	Weighted Average*
01.07.82	30.06.83	0.030	
01.07.83	30.06.84	0.027	
01.07.84	30.06.85	0.031	
01.07.85	30.06.86	0.033	
01.07.86	31.07.86	0.036	
01.08.86	31.10.86	0.044	
01.11.86	30.06.87	0.045	
01.07.87	31.07.87	0.044	
01.08.87	30.09.87	0.042	
01.10.87	31.10.87	0.043	
01.11.87	30.11.87	0.046	
01.12.87	31.03.88	0.044	
01.04.88	17.04.89	0.043	
18.04.89	30.05.89	0.044	
31.05.89	14.06.89	0.048	
15.06.89	30.06.89	0.044	
01.07.89	31.07.89	0.046	
01.08.89	04.09.89	0.050	
05.09.89	31.05.90	0.051	
01.06.90	30.06.90	0.045	
01.07.90	31.07.90	0.050	
01.08.90	03.09.90	0.049	
04.09.90	30.09.90	0.051	
01.10.90	31.10.90	0.056	
01.11.90	31.01.91	0.057	
01.02.91	31.03.91	0.056	
01.04.91	31.07.91	0.055	
01.08.91	30.09.91	0.057	
01.10.91	30.09.91	0.058	
01.01.92	31.03.92		0.056
01.04.92	30.06.92		0.052
01.07.92	30.09.92		0.056
01.10.92	31.12.92		0.060
01.01.93	31.03.93		0.060
01.04.93	30.06.93		0.060
01.07.93	30.09.93		0.063
01.10.93	30.06.94		0.069
01.07.94	31.09.94		0.070
01.09.94	31.08.96		0.071
01.09.96	30.09.96		0.0636
01.10.96	30.06.97		0.0641
01.07.97	06.08.97		0.0585

*Weighted average of all states.

From 7 August 1997 onwards, the State Government Business Franchise Fees were abolished and became part of the Commonwealth Excise Tax.

Commonwealth Excise Tax (AUD/litre)

From	To	Excise	Rebate A	Rebate B	Rebate C
01.01.78	30.06.82	0.05155	0.05155		
01.07.82	30.06.83	0.06155	0.06155		
01.07.83	22.08.83	0.07155	0.07155		
23.08.83	01.02.84	0.09027	0.07155		
02.02.84	31.01.85	0.09397	0.07155		
01.02.85	31.07.85	0.09641	0.07341		
01.08.85	15.08.85	0.10007	0.07619		
16.08.85	31.01.86	0.10007	0.07619	0.08049	0.01007
01.02.86	13.03.86	0.10437	0.07947	0.08049	0.10437
14.03.86	16.04.86	0.15766	0.12005	0.13378	0.15766
17.04.86	16.05.86	0.18388	0.14002	0.16000	0.18388
17.05.86	13.06.86	0.19200	0.14620	0.16812	0.19200
14.06.86	17.07.86	0.18822	0.14332	0.16432	0.18822
18.07.86	31.07.86	0.19240	0.14650	0.16852	0.19240
01.08.86	15.08.86	0.20010	0.15236	0.17622	0.20010
16.08.86	18.08.86	0.20884	0.15901	0.18496	0.20884
19.08.86	12.09.86	0.23844	0.18185	0.21496	0.23884
13.09.86	15.10.86	0.20185	0.15369	0.17797	0.20185
16.10.86	16.01.87	0.19706	0.15004	0.17318	0.19706
17.01.87	31.01.87	0.19655	0.14965	0.17267	0.19655
01.02.87	13.02.87	0.20756	0.15803	0.18368	0.20756
14.02.87	13.03.87	0.18720	0.14253	0.16332	0.18720
14.03.87	15.05.87	0.19150	0.14580	0.16762	0.19150
16.05.87	17.07.87	0.19840	0.15105	0.17452	0.19840
18.07.87	14.08.87	0.19808	0.15081	0.17420	0.19808
15.08.87	16.10.87	0.20097	0.15301	0.17709	0.20097
17.10.87	15.12.87	0.20830	0.15859	0.18442	0.20830
16.12.87	02.02.88	0.20295	0.15324	0.17907	0.20295
03.02.88	30.06.88	0.20802	0.15831	0.18414	0.20802
01.07.88	31.07.88	0.20802	0.15774	0.18330	0.20718
01.08.88	04.02.89	0.21530	0.16392	0.19142	0.21530
05.02.89	28.02.89	0.22391	0.16392	0.19142	0.21530
01.03.89	31.03.89	0.22391	0.16501	0.19286	0.21674
01.04.89	30.04.89	0.22391	0.16611	0.19429	0.21817
01.05.89	31.05.89	0.22391	0.16720	0.19573	0.21961
01.06.89	30.06.89	0.22391	0.16829	0.19716	0.22104
01.07.89	31.07.89	0.22391	0.16939	0.19860	0.22248
01.08.89	31.08.89	0.23152	0.17048	0.20003	0.22391
01.09.89	30.09.89	0.23152	0.17145	0.20130	0.22518
01.10.89	31.10.89	0.23152	0.17241	0.20257	0.22645
01.11.89	30.11.89	0.23152	0.17338	0.20384	0.22772
01.12.89	31.12.89	0.23152	0.17434	0.20510	0.22898
01.01.90	04.02.90	0.23152	0.17531	0.20637	0.23025
05.02.90	28.02.90	0.24124	0.17627	0.20764	0.23152
01.03.90	31.03.90	0.24124	0.17750	0.20926	0.23314
01.04.90	30.04.90	0.24124	0.17874	0.21088	0.23476
01.05.90	31.05.90	0.24124	0.17997	0.21250	0.23638
01.06.90	30.06.90	0.24124	0.18120	0.21420	0.23800
01.07.90	05.08.90	0.24124	0.18244	0.21574	0.23962
06.08.90	31.08.90	0.24124	0.18367	0.21736	0.24124
01.09.90	30.09.90	0.24920	0.18468	0.21869	0.24257
01.10.90	31.10.90	0.24920	0.18569	0.22001	0.24389
01.11.90	30.11.90	0.24920	0.18670	0.22134	0.24522
01.12.90	31.12.90	0.24920	0.18771	0.22267	0.24655

From	To	Excise	Rebate A	Rebate B	Rebate C
01.01.91	17.02.91	0.24920	0.18872	0.22399	0.24787
18.02.91	28.02.91	0.25767	0.19618	0.23379	0.25767
01.03.91	31.03.91	0.25767	0.19081	0.22673	0.25061
01.04.91	30.04.91	0.25767	0.19188	0.22814	0.25202
01.05.91	31.05.91	0.25767	0.19296	0.22956	0.25344
01.06.91	30.06.91	0.25767	0.19403	0.23097	0.25485
01.07.91	31.07.91	0.25767	0.19511	0.23238	0.25626
01.08.91	02.02.92	0.25767	0.19618	0.23379	0.25767
03.02.92	29.02.92	0.26154	0.19918	0.23444	0.25832
01.03.92	31.03.92	0.26154	0.19677	0.23444	0.25382
01.04.92	30.04.92	0.26154	0.19677	0.23508	0.25896
01.05.92	31.05.92	0.26154	0.19766	0.23573	0.25896
01.06.92	30.06.92	0.26154	0.19815	0.23637	0.26025
01.07.92	31.07.92	0.26154	0.19684	0.23702	0.26090
01.08.92	18.08.92	0.26154	0.19913	0.23702	0.26154
19.08.92	31.01.93	0.26154	0.19913	0.23766	0.26154
01.02.93	28.02.93	0.26232	0.19913	0.23766	0.26154
01.03.93	31.03.93	0.26232	0.19923	0.23779	0.26167
01.04.93	30.04.93	0.26232	0.19933	0.23792	0.26180
01.05.93	31.05.93	0.26232	0.19943	0.23805	0.26193
01.06.93	30.06.93	0.26232	0.19952	0.23818	0.26206
01.07.93	31.07.93	0.26232	0.19962	0.23831	0.26219
01.08.93	01.08.93	0.26232	0.19972	0.23844	0.26232
02.08.93	17.08.93	0.26573	0.19972	0.23844	0.26232
18.08.93	31.08.93	0.29573	0.19972	0.23844	0.26232
01.09.93	30.11.93	0.29573	0.20398	0.24401	0.26789
01.12.93	31.12.93	0.29573	0.21668	0.26071	0.28459
01.01.94	31.01.94	0.29573	0.22092	0.26628	0.29016
01.02.94	28.02.94	0.31750	0.22516	0.27185	0.29573
01.03.94	31.03.94	0.31750	0.22712	0.27381	0.27769
01.04.94	30.04.94	0.31750	0.22908	0.27577	0.29965
01.05.94	31.05.94	0.31750	0.23105	0.27774	0.30162
01.06.94	30.06.94	0.31750	0.23301	0.27970	0.30358
01.07.94	31.07.94	0.31750	0.23497	0.28166	0.30554
01.08.94	31.08.94	0.32088	0.23693	0.28362	0.30973
01.09.94	30.09.94	0.32088	0.23916	0.28585	0.30973
01.10.94	31.10.94	0.34099	0.24139	0.28808	0.31196
01.11.94	30.11.94	0.34099	0.23922	0.29031	0.31418
01.12.94	31.12.94	0.32088	0.24091	0.29254	0.31642
01.01.95	31.01.95	0.32088	0.24261	0.29477	0.31865
01.02.95	28.02.95	0.32537	0.24431	0.29700	0.32088
01.03.95	31.03.95	0.32537	0.24488	0.29775	0.32163
01.04.95	30.04.95	0.32537	0.24545	0.29850	0.32238
01.05.95	31.05.95	0.32537	0.24602	0.29925	0.32313
01.06.95	30.06.95	0.32537	0.24659	0.29999	0.32387
01.07.95	31.07.95	0.32537	0.24716	0.30074	0.32462
01.08.95	31.08.95	0.33513	0.24773	0.30149	0.32537
01.09.95	30.09.95	0.33513	0.24897	0.30312	0.32700
01.10.95	31.10.95	0.33513	0.25021	0.30474	0.32862
01.11.95	30.11.95	0.33513	0.25145	0.30637	0.33025
01.12.95	31.12.95	0.33513	0.25268	0.30800	0.33188
01.01.96	31.01.96	0.33513	0.25392	0.30962	0.33350
01.02.96	29.02.96	0.34183	0.25516	0.31125	0.33513
01.03.96	31.03.96	0.34183	0.25601	0.31237	0.33625
01.04.96	30.04.96	0.34183	0.25686	0.31348	0.33736
01.05.96	31.05.96	0.34183	0.25771	0.31460	0.33848

From	To	Excise	Rebate A	Rebate B	Rebate C
01.06.96	30.06.96	0.34183	0.25856	0.31572	0.33960
01.07.96	31.07.96	0.34183	0.25941	0.31683	0.34071
01.08.96	31.08.96	0.39559	0.26026	0.31795	0.34183
01.09.96	30.09.96	0.34559	0.26074	0.31858	0.34246
01.10.96	31.10.96	0.34559	0.26121	0.31920	0.34308
01.11.96	30.11.96	0.34559	0.26169	0.31983	0.34371
01.12.96	31.12.96	0.34559	0.26217	0.32046	0.34434
01.01.97	31.01.97	0.34559	0.26264	0.32108	0.34496
01.02.97	28.02.97	0.34697	0.26312	0.32717	0.34559
01.03.97	31.03.97	0.34697	0.26330	0.32194	0.34582
01.04.97	30.04.97	0.34697	0.26347	0.32217	0.34605
01.05.97	31.05.97	0.34697	0.26365	0.32240	0.34628
01.06.97	30.06.97	0.34697	0.26382	0.32263	0.34651
01.07.97	06.08.97	0.34697	0.26400	0.32286	0.34674
07.08.97	31.07.98	0.42797	0.26417	0.32309	0.34697
01.08.98	31.08.98	0.43054	0.26417	0.32309	0.34697
01.09.98	30.09.98	0.43054	0.26443	0.32343	0.34731
01.10.98	31.10.98	0.43054	0.26470	0.32378	0.34766
01.11.98	30.11.98	0.43054	0.26496	0.32413	0.34801
01.12.98	31.12.98	0.43054	0.26523	0.32447	0.34835
01.01.99	31.01.99	0.43054	0.26549	0.32482	0.34870
01.02.99	28.02.99	0.43355	0.26576	0.32517	0.34905
01.03.99	31.03.99	0.43355	0.26607	0.32557	0.34945
01.04.99	30.04.99	0.43355	0.26638	0.32598	0.34986
01.05.99	31.05.99	0.43355	0.26669	0.32698	0.35027
01.06.99	30.06.99	0.43355	0.26700	0.32679	0.35067
01.07.99	31.07.99	0.43355	0.26731	0.32720	0.35108
01.08.99	31.08.99	0.43485	0.26762	0.32761	0.35149
01.09.99	30.09.99	0.43485	0.26775	0.32778	0.35166
01.10.99	30.10.99	0.43485	0.26778	0.32796	0.35184
01.11.99	30.11.99	0.43485	0.26802	0.32813	0.35201
01.12.99	31.12.99	0.43485	0.26815	0.32831	0.35519
01.01.00	30.01.00	0.43485	0.26829	0.32849	0.35237
02.02.00	29.02.00	0.44137	0.26842	0.32866	0.35254
01.03.00	31.03.00	0.44137	0.26909	0.32954	0.35342
01.04.00	30.04.00	0.44137	0.26976	0.32304	0.35430
01.05.00	31.05.00	0.44137	0.27043	0.33130	0.35518
01.06.00	30.06.00	0.44137	0.27110	0.33218	0.35606
01.07.00	31.07.00	0.44137	0.26837	0.33306	0.35694
01.08.00	30.08.00	0.44137	0.28055	0.34076	0.36066
01.09.00	30.09.00	0.38118	0.30733	0.34933	0.36455
01.10.00	30.10.00	0.38118	0.32553	0.35703	0.36844
01.11.00	30.11.00	0.38118	0.34373	0.36473	0.37234
01.12.00	31.12.00	0.38118	0.36192	0.37242	0.37623
01.01.01	30.01.01	0.38118	0.38012	0.38012	0.38012
01.02.01	28.02.01	0.39643	0.38118	0.38118	0.38118
01.03.01	31.03.01	0.38143	0.38372	0.38372	0.38372
01.04.01	30.04.01	0.38143	0.38376	0.38376	0.38376
01.05.01	31.05.01	0.38143	0.38381	0.38381	0.38381
01.06.01	30.06.01	0.38143	0.38385	0.38385	0.38385
01.06.01	30.06.01	0.38143	0.38385	0.38385	0.38385
01.07.01	31.07.01	0.38143	0.38389	0.38389	0.38389
01.08.01	30.08.01	0.38143	0.38393	0.38393	0.38393
01.09.01	unknown	0.38143	0.38143	0.38143	0.38143

Rebate A: Applicable to public institutions and residential use.

Rebate B: Applicable for certain mining uses.

Rebate C: A full rebate only applicable to eligible primary producers (Introduced November 1985).

See footnotes on rebates for mining and agricultural users.

From 1Q91 to 4Q95, prices refer to weighted averages based on eight capital city pump prices and official sales figures.

Sources: From 4Q05 onwards, FUELtrac IPIP Report. From 1Q96 to 3Q05, Australian Competition and Consumer Commission (ACCC). Prior to 1Q96, the Motor Trade Association of Australia, monthly survey of motor fuel prices and Department of Primary Industries and Energy, monthly sales of petroleum.

Gasoline

Excise Taxes

State Government Business Franchise Fees (AUD/litre)

From	To	Simple Average	Weighted Average
01.07.82	30.06.83	0.020	
01.07.83	30.06.84	0.019	
01.07.84	30.06.85	0.024	
01.07.85	30.06.86	0.026	
01.07.86	31.07.86	0.029	
01.08.86	30.09.86	0.036	
01.10.86	31.07.87	0.037	
01.08.87	31.10.87	0.036	
01.11.87	30.03.88	0.039	
01.04.88	30.06.89	0.038	
01.07.89	31.07.89	0.040	
01.08.89	04.09.89	0.044	
05.09.89	31.05.90	0.045	
01.06.90	30.06.90	0.050	
01.07.90	31.07.90	0.044	
01.08.90	03.09.90	0.043	
04.09.90	30.09.90	0.045	
01.10.90	31.10.90	0.049	
01.11.90	30.11.90	0.053	
01.12.90	31.01.91	0.054	
01.02.91	28.02.91	0.053	
01.03.91	31.07.91	0.052	
01.08.91	30.09.91	0.053	
01.10.91	31.12.91	0.055	
01.01.92	30.06.92		0.053
01.07.92	30.09.92		0.054
01.10.92	31.12.92		0.058
01.01.93	31.06.93		0.052
01.07.93	30.09.93		0.055
01.10.93	30.06.94		0.061
01.07.94	31.12.94		0.062

From	To	Simple Average	Weighted Average
01.01.95	31.03.95		0.065
01.04.95	30.06.95		0.066
01.07.95	30.09.95		0.065
01.10.95	31.12.95		0.065
01.01.96	30.08.96		0.068
01.09.96	30.09.96		0.0679
01.10.96	31.03.97		0.0690
01.04.97	30.06.97		0.0691
01.07.97	06.08.97		0.0653
07.08.97	now		abolished

Commonwealth Excise Tax

All Grades

From	To	AUD/ litre
01.01.78	30.06.82	0.01555
01.07.82	30.06.83	0.06155
01.07.83	22.08.83	0.07155
23.08.83	01.02.84	0.09027
02.02.84	31.01.85	0.09397
01.02.85	31.07.85	0.09641
01.08.85	31.01.86	0.10007
01.02.86	13.03.86	0.10437
14.03.86	16.04.86	0.15766
17.04.86	16.05.86	0.18388
17.05.86	13.06.86	0.19200
14.06.86	17.07.86	0.18822
18.07.86	31.07.86	0.19240
01.08.86	15.08.86	0.20010
16.08.86	18.08.86	0.20084
19.08.86	12.09.86	0.23884
13.09.86	15.10.86	0.20185
16.10.86	16.01.87	0.19706
17.01.87	31.01.87	0.19655
01.02.87	13.02.87	0.20756
14.02.87	13.03.87	0.18720
14.03.87	15.05.87	0.19150
16.05.87	17.07.87	0.19840
18.07.87	14.08.87	0.19808
15.08.87	16.10.87	0.20097
17.10.87	15.12.87	0.02830
16.12.87	02.02.88	0.20295
03.02.88	30.07.88	0.20802
01.08.88	04.02.89	0.21530
05.02.89	31.07.89	0.22391
01.08.89	04.02.90	0.23152
05.02.90	03.09.90	0.24124
04.09.90	17.02.91	0.24920
18.02.91	02.02.92	0.25767
03.02.92	31.01.93	0.26154
01.02.93	01.08.93	0.26232
02.08.93	17.08.93	0.26573
18.08.93	31.01.94	0.29573

Leaded/Leaded Replacement (AUD/litre)			
From	To	Leaded	Leaded Replacement
01.02.94	31.07.94	0.31750	
01.08.94	31.01.95	0.34099	
01.02.95	31.07.95	0.34576	
01.08.95	31.01.96	0.35613	
01.02.96	31.07.96	0.36325	
01.08.96	31.01.97	0.36725	
01.02.97	30.06.97	0.36872	
01.02.97	06.08.97	0.36872	
07.08.97	31.07.98	0.44972	
01.08.98	31.01.99	0.45242	
01.02.99	01.08.99	0.45559	
02.08.99	01.02.00	0.45696	
02.02.00	31.07.00	0.46381	
01.08.00	31.01.01	0.40400	
01.02.01	01.03.01	0.42016	
02.03.01	31.12.01	0.40516	
01.01.02	unknown		0.40516

Unleaded

From	To	AUD/ litre
01.02.94	31.07.94	0.30750
01.08.94	31.01.95	0.32088
01.02.95	31.07.95	0.32537
01.08.95	31.01.95	0.33513
01.01.96	31.07.96	0.34183
01.08.96	31.01.97	0.34559
01.02.97	06.08.97	0.34697
07.08.97	31.07.98	0.42797
01.08.98	31.01.99	0.43054
01.02.99	01.08.99	0.43355
02.08.99	01.02.00	0.43485
02.02.00	31.07.00	0.44137
01.08.00	31.01.01	0.38118
01.02.01	01.03.01	0.39643
02.03.01	unknown	0.38143

From 3Q82 onwards, prices refer to quarterly averages based on pump prices in eight capital cities. From 1Q78 to 2Q82, prices refer to the first month of the quarter and are the weighted average of pump prices in six capital cities.

Specifications

Grade and Octane: Premium Unleaded 95 RON
Regular Unleaded 91 and 93 RON
Leaded Replacement (prior to 2Q04)
Premium Leaded 96 RON (prior to 1Q02)

Sources: From 4Q05 onwards, FUELtrac IPIP Report. Prior to 4Q05, Australian Bureau of Statistics, monthly general survey of retail prices for purposes of computing the national consumer price index.

Automotive LPG

General Sales Tax (GST): applied

Density: 0.550 t/kl

Source: FUELtrac IPIP Report.

NATURAL GAS

Special Taxes: All states impose royalties on natural gas production and some impose taxes on natural gas sales. In Victoria there is a levy on large gas users. Some states also require state owned utilities to pay a dividend to the state. The national average of taxes on natural gas is not known.

Prices shown include taxes and dividends and are derived from financial year (July to June) average revenues per GJ received by country-wide utilities. Direct sales from natural gas producers to consumers are excluded.

Specifications

GCV: 9 506 kcal/m³

Source: Australian Gas Association, *Gas Industry Statistics*; Australian Bureau of Agricultural and Resource Economics.

COAL

Steam Coal for Industry

From 1990 onwards, prices are no longer available. Prior to 1990, price shown is a weighted average of domestic sales of coal to industry (excludes coal exports).

Specifications

Quality: Black Coal
Sulphur Content: 0.5%
Ash Content: 2.5 - 31%
Water Content: 1 - 19%
Delivery Size: No minimum applicable
NCV: 6 600 kcal/kg

Source: Joint Coal Board of New South Wales, quarterly survey among producers in New South Wales.

Steam Coal for Electricity Generation

From 1990 onwards, prices refer to average selling price of coal supplied to the Electricity Commission of New South

Wales from all sources. From 1982 to 1989, prices refer to average pit top values, excluding transportation costs. Prior to 1982, prices refer to yearly average unit costs of coal used in public electricity generation in New South Wales.

Specifications

Quality: Black Coal
Sulphur Content: 0.5%
Ash Content: 2.5 - 31%
Water Content: 1 - 19%
Delivery Size: No minimum applicable
NCV: 6 600 kcal/kg

Sources: From 1982 onwards, Joint Coal Board of New South Wales, Quarterly Survey among producers in New South Wales. Prior to 1982, Electricity Supply Association of Australia, Annual Reports.

Coking Coal for Industry

From 1Q90 onwards, prices are no longer available. Prior to 1Q90, prices refer to pit-top values, excluding transportation costs of coal produced at New South Wales mines and owned by the steel industry.

Source: Joint Coal Board of New South Wales, quarterly survey among coal producers in New South Wales.

ELECTRICITY

General Sales Tax (GST): Applies to households only. GST is refunded for industry.

Special Tax: Some states require state-owned utilities to pay a dividend to the state. The national average rates are not known.

Prices refer to financial year July to June.

Source: Electricity Supply Association of Australia.

Industry

From 1995 onwards, prices include commercial users. Prices refer to average revenues per kWh received by the utilities for industry from Victoria, New South Wales, Queensland, South Australia, Western Australia, Tasmania and the Australian Capital Territory.

Households

Prices shown are average revenues per kWh received by the utilities for households Australia-wide.

ENERGY PRICE INDICES

No indices are available after 1999. Historical series are available electronically on CD-ROM or through the on-line data service.

Wholesale: Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to three-month averages. From 1Q86 to 4Q92, indices refer to the second month (except where indicated).

Retail: Annual figures are 12-month averages. Quarterly indices are three-month averages.

Source: Correspondence with the Australian Bureau of Statistics.

Oil Products

Retail: From 1Q81 onwards, weighted average of "gasoline" and LFO price indices in eight state capital cities. Prior to 1Q81, indices refer to six capital cities.

Electricity

Wholesale: Electricity used in manufacturing industry. From 1Q93 onwards, indices refer to the three-month average of the quarter. From 1Q87 to 4Q92, indices refer to the second month of the quarter. Prior to 1Q87, indices are monthly averages.

Retail: From 1Q81 onwards, electricity use in eight capital cities. Prior to 1Q81, electricity use in six state capital cities.

Natural Gas

Wholesale: Natural gas used in manufacturing industry.

Retail: Piped town gas and bottled LPG gas.

Coal Products

Wholesale: Coal and briquettes used in the manufacturing industry.

AUSTRIA

GENERAL NOTES

Prices refer to monthly averages of the quarter. See individual products for exceptions.

General Tax (VAT)

From	To	%
01.01.73	31.12.80	8
01.01.81	31.12.83	13
01.01.84	now	20

VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

OIL PRODUCTS

High Sulphur Fuel Oil

Special Taxes

Emergency Stock Fee

From	To	EUR/tonne	ATS/100kg
01.03.77	28.02.78	2.10	2.88
01.03.78	28.02.79	4.20	5.80
01.03.79	29.02.80	6.30	8.63
01.03.80	30.04.80	8.40	11.50
01.05.80	28.02.81	11.40	15.64
01.03.81	28.02.82	14.20	19.55
01.03.82	29.02.88	16.40	22.57
01.03.88	15.12.90	11.50	15.76
16.12.90	28.02.92	7.70	10.64
01.03.92	31.03.93	7.10	9.78
01.04.93	31.03.94	7.20	9.92
01.04.94	31.03.99	6.686	9.20
01.04.99	31.03.00	6.477	8.913
01.04.00	31.03.02	6.895	9.488
01.04.02	31.03.03	6.286	
01.04.03	now	7.188	

Mineral Oil Tax

From	To	EUR/tonne	ATS/100kg
01.01.92	30.04.95	14.50	20
01.05.95	31.12.01	36.30	50
01.01.02	31.12.03	36	
01.01.04	now	60	

Prices shown in the main table are the average annual and quarterly expenditure per tonne incurred by all Austrian industry.

Specifications

Quality: Heizöl schwer

Sulphur Content:

From	To	%
Prior to	01.01.83	3.5
01.01.83	31.01.84	3.0
01.02.84	30.06.84	2.5
01.07.84	30.09.87	2.0
01.10.87	31.12.91	1.5 (avg. 1.0 and 2.0)
01.01.92	now	≤ 1.0

Sources: Statistics Austria, Industry Survey. Tax information from the Federal Ministry of Economic Affairs and Labour.

Low Sulphur Fuel Oil

Special Taxes:

Emergency Stock Fee and Mineral Oil Tax are included in excise tax, see high sulphur fuel oil for details.

Specifications

Quality: Heizöl mittel

Density: 1 t/m³

Sulphur Content: 0.4%

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Heavy Fuel Oil for Electricity Generation

Average annual expenditure per tonne incurred by all Austrian utilities.

Heavy fuel oil for electricity generation is exempted from mineral oil tax according to par 4/1/9/c of the mineral oil tax law.

Source: Statistics Austria, Survey on material input in the mining and manufacturing industries, Wholesale price index.

Light Fuel Oil for Industry

Prices shown in the main table are the average annual and quarterly expenditures per thousand litres (kl) incurred by all Austrian industry.

Special Taxes

Emergency Stock Fee and Mineral Oil Tax are included in excise tax. Excise tax is partially refunded to certain large industrial consumers.

Emergency Stock Fee

From	To	EUR/ kl	EUR/ tonne	ATS/ 100kg
01.03.77	28.02.78	1.76	2.10	2.88
01.03.78	28.02.79	3.53	4.20	5.80
01.03.79	29.02.80	5.29	6.30	8.63
01.03.80	30.04.80	7.06	8.40	11.50
01.05.80	28.02.81	9.49	11.40	15.64
01.03.81	28.02.82	11.93	14.20	19.55
01.03.82	29.02.88	13.78	16.40	22.57
01.03.88	15.12.90	9.58	11.50	15.76
16.12.90	28.02.92	6.47	7.70	10.64
01.03.92	31.03.93	5.96	7.10	9.78
01.04.93	31.03.94	6.05	7.20	9.92
01.04.94	31.03.99	5.62	6.686	9.20
01.04.99	31.03.00	5.44	6.477	8.913
01.04.00	31.03.02	5.79	6.895	9.488
01.04.02	31.03.03	7.24	8.568	
01.04.03	31.03.05	8.14	9.631	
01.04.05	now	8.99	10.702	

Mineral Oil Tax

From	To	EUR/ kl	EUR/ tonne	ATS/ 100kg
01.01.92	30.04.95	12.18	14.50	20
01.05.95	31.12.01	30.50	36.30	50
01.01.02	31.12.03	30.25	36	
01.01.04	now	50.42	60	

Specifications

Quality: Heizöl Extra Leicht
Density: 0.84 t/kl

Sulphur Content

From	To	%
01.06.68	30.09.82	1.50
01.10.82	31.01.84	0.75
01.02.84	31.03.89	0.50
01.04.89	30.06.90	0.30
01.07.90	now	0.20

The above quality represents about 95% of all industrial light fuel use in Austria. The remaining 5% is quality heizöl extra leicht and has a specific gravity of 0.84 t/kl, comparable to the light fuel quality prevailing in other countries.

Sources: Federal Ministry of Economic Affairs and Labour, and Statistics Austria, Survey on material input in the mining and manufacturing industries, Wholesale price index.

Light Fuel Oil for Households

General Tax (VAT): See general notes for Austria.

Special Taxes*Emergency Stock Fee*

From	To	EUR/ kl	EUR/ 100kg	ATS/ 100kg
01.03.77	28.02.78	1.76	0.21	2.88
01.03.78	28.02.79	3.53	0.42	5.80
01.03.79	29.02.80	5.29	0.63	8.63
01.03.80	30.04.80	7.06	0.84	11.50
01.05.80	28.02.81	9.58	1.14	15.64
01.03.81	28.02.82	11.93	1.42	19.55
01.03.82	29.02.88	13.78	1.64	22.57
01.03.88	15.12.90	9.66	1.15	15.76
16.12.90	28.02.92	7.90	0.94	12.94
01.03.92	31.03.93	7.22	0.86	11.79
01.04.93	31.03.94	7.39	0.88	12.08
01.04.94	31.03.96	7.06	0.84	11.50
01.04.96	31.03.97	6.93	0.8253	11.356
01.04.97	31.03.98	7.02	0.8357	11.50
01.04.98	31.03.99	6.67	0.7940	10.925
01.04.99	31.03.00	6.49	0.7731	10.638
01.04.00	31.03.01	7.02	0.8357	11.5
01.04.01	31.03.02	7.55	0.8985	12.363
01.04.02	31.03.03	7.20	0.8568	
01.04.03	now	8.09	0.9631	

Mineral Oil Tax

From	To	EUR/ litre	ATS/ 100kg
01.01.66	31.12.91	0.0358	57
01.01.92	30.04.95	0.047	77
01.05.95	31.12.03	0.069	113
01.01.04	now	0.098	

Specifications

Quality: Heizöl Extra Leicht
Density: 0.84 t/kl
Sulphur Content: 0.1%

Prices refer to the weighted average price. In 1986, this variety represented 60% of light fuel oil used in the representative households for which the general consumer price index is computed. The remaining 40% was heizöl leicht (see light fuel oil for industry).

Source: Federal Ministry of Economic Affairs and Labour, Annual Report on Energy.

Automotive Diesel Oil

General Tax (VAT): Applies to non-commercial use. See general notes for Austria.

Special Taxes*Mineral Oil Tax **

From	To	EUR/ litre	ATS/ 100kg
18.03.76	31.12.78	0.158	260
01.01.79	30.06.80	0.177	289
01.07.80	31.03.81	0.198	325
01.04.81	31.03.87	0.213	349
01.04.87	31.12.94	0.220	361
01.01.95	30.04.95	0.239	392
01.05.95	31.12.01	0.283	463
01.01.02	31.12.03	0.282	
01.01.04	30.09.05	0.302	
01.10.05	30.06.07	0.325	
01.07.07	now	0.375	

* Mineral Oil Tax for Fossil Diesel with addition of biogene Diesel (4.4%) and maximum 10 mg/kg sulphur content is 0.347 Euro/litre.

Emergency Stock Fee

From	To	EUR/ litre	ATS/ 100kg
01.04.94	31.03.96	0.007	11.50
01.04.96	31.03.97	0.007	11.36
01.04.97	31.03.98	0.007	11.50
01.04.98	31.03.99	0.007	10.93
01.04.99	31.03.00	0.006	10.64
01.04.00	31.03.01	0.007	11.50
01.04.01	31.03.02	0.008	12.36
01.04.02	31.03.03	0.007	
01.04.03	31.03.06	0.008	
01.04.06	now	0.01032	

Special Oil Product Fee

From	To	EUR/ litre	ATS/ litre
01.01.81	30.04.95	0.008	approx. 0.11
01.05.95	now	0	0

Prices shown refer to weighted average prices.

Specifications

Density: 0.84 t/kl (assumed)

Sulphur content: max. 10 mg/kg (2004)

Sources: Federal Ministry of Economic Affairs and Labour, and Statistics Austria, Survey on material input in the mining and manufacturing industries, Wholesale price index.

Gasoline

General Tax (VAT): See general notes for Austria.

Special Taxes*Mineral Oil Tax*

Leaded			
From	To	EUR/ litre	ATS/ 100kg
18.03.76	31.12.78	0.190	348
01.01.79	30.06.80	0.208	381
01.07.80	31.03.81	0.230	421
01.04.81	31.03.85	0.244	448
01.04.85	31.03.87	0.250	459
01.04.87	31.12.91	0.256	499
01.01.92	31.12.93	0.351	643
01.01.94	now	no longer consumed	

Unleaded			
From	To	EUR/ litre	ATS/ 100kg
01.04.85	31.03.87	0.233	428
01.04.87	31.12.91	0.241	442
01.01.92	31.12.93	0.291	535
01.01.94	30.04.95	0.328	602
01.05.95	31.12.01	0.408	748
01.01.02	31.12.03	0.407	
01.01.04	30.06.07	0.417	
01.07.07	30.09.07	0.447	
01.10.07	now	0.475	

* Mineral Oil Tax for Fossil Diesel with addition of biogene Ethanol (4.4%) and maximum 10 mg/kg sulphur content is 0.442 Euro/litre.

Emergency Stock Fee

From	To	EUR/ kl	ATS/ kl
01.04.94	31.03.95	6.74	92.72
01.04.95	31.03.96	6.74	92.72
01.04.96	31.03.97	6.58	90.56
01.04.97	31.03.98	6.66	91.64
01.04.98	31.03.99	6.35	87.33
01.04.99	31.03.00	6.19	85.17
01.04.00	31.03.01	6.58	90.56
01.04.01	31.03.02	7.05	97.04
01.04.02	31.03.03	6.74	
01.04.03	31.03.05	7.55	
01.04.05	31.03.06	7.98	
01.04.06	31.03.07	9.38	
01.04.07	now	8.95	

Prices shown refer to the weighted average price.

Specifications

Grade and Octane: Premium Unleaded 98 RON
Premium Unleaded 95 RON
Regular Unleaded 91 RON

Lead Content: 0.013 g/litre

Density: 0.75 t/kl (assumed)

Sulphur content: max. 10 mg/kg (2004)

Source: Federal Ministry of Economic Affairs and Labour.

NATURAL GAS

Excise Tax

From	To	EUR/ 10 ⁷ kcal	EUR/ m ³	ATS/ m ³
01.07.96	31.12.01	42.58	0.0405	0.6
01.01.02	31.12.03	45.81	0.0436	
01.01.04	now	69.34	0.066	

As this tax is refunded to certain enterprises, exact data for industry and electricity generation is not possible.

Specifications

GCv: 9 510 kcal/m³

Industry

Prices shown are annual average expenditures per 10⁷ kcal incurred by all industry for natural gas.

Source: Statistics Austria.

Households

General Tax (VAT): See general notes for Austria.

Prices shown in the main table are an average of various representative rates in 20 different towns. This average is also used for the construction of the national consumer price index.

Source: Statistics Austria.

Electricity Generation

Prices shown are the average annual expenditure per 10⁷ kcal of all Austrian utilities.

Source: Statistics Austria, *Wirtschaftsstatistik der Elektrizitätsversorgungsunternehmen*.

COAL

Steam Coal for Industry

Prices shown are the annual and quarterly average expenditure per tonne incurred by all industry for steam coal.

Excise tax is partially refunded to certain large industrial consumers.

Source: Statistics Austria, Survey on material input in the mining and manufacturing industries, Wholesale price index.

Steam Coal for Electricity Generation

Prices shown are average annual expenditure per tonne on steam coal incurred by all utilities. This coal category represents the following per cent of coal used by Austrian utilities:

Year	%	Year	%
1982	0.9	1986	18.3
1983	2.4	1987	32.8
1984	2.9	1989	35.4
1985	3.3	1990	40.0

Excise tax is partially refunded to certain large industrial consumers.

Source: Statistics Austria, Survey on material input in the mining and manufacturing industries, Wholesale price index.

Steam Coal for Households

General Tax (VAT): See general notes for Austria.

Prices shown are the average price paid by all households for coke, the most widely used variety.

Source: Statistics Austria: *Energie-verbrauch der Haushalte; Ergebnisse des Mikrozensus*.

Coking Coal for Industry

Price shown is the one for coke used by industry.

ELECTRICITY

Excise Tax

From	To	EUR/ kWh	ATS/ kWh
01.07.96	31.05.00	0.0073	0.1000
01.05.00	now	0.0150	0.2064

Excise Tax shown in the tables includes the above "Excise Tax" as well as other taxes and surcharges such as municipal taxes, stranded costs, surcharges for renewable energy and CHP surcharges.

Industry

Excise tax is partially refunded to certain large industrial customers.

Figures shown in the main table are calculated as the weighted average of prices paid by both industrial and commercial customers at various voltage levels.

Source: E-Control.

Households

General Tax (VAT): See general notes for Austria.

From 1999 onwards, prices are based on annual consumption of 3 500 kWh (including 1 300 kWh night-time consumption), and are the average value of Upper Austria/Tyrol/Vienna. From 1995 to 1999, prices shown are based on the Erlosstatistik of the Federal Ministry of Economic Affairs. Prior to 1995, prices were an average of various representative rates in 20 different towns. They were used for the construction of the national consumer price index.

Source: Energie Control, under mandate from the Federal Ministry for Economic Affairs and Labour.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

BELGIUM

GENERAL NOTES

From 1Q90 onwards, prices refer to the weekly averages of the quarter. From 1Q85 to 4Q89, prices refer to the second month of the quarter. Prior to 1Q85, prices refer to the first month of each quarter. See individual products for exceptions.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.78	30.09.80	6
01.10.80	30.06.81	16
01.07.81	31.03.92	17
01.04.92	31.12.93	19.5
01.01.94	31.12.95	20.5
01.01.96	now	21

OIL PRODUCTS

From 1981 to 1990, the prices shown take account of rebates. Prior to 1981 prices shown are maximum list prices and rebates may have occurred.

Sources: Unless specified otherwise, Ministry of Economic Affairs, following the EC decision of 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Fuel Oil Lourd (HSFO)
Sulphur Content:	1% - 3%
Density:	0.93 t/kl
Delivery Size:	< 24 000 t/year
NCV:	9 750 kcal/kg

Low Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Fuel Oil Lourd
Sulphur Content:	1%

Light Fuel Oil

General Tax (VAT): See general notes for Belgium.

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Gas Oil Chauffage
Density:	0.84 t/kl
Delivery Size:	2 - 5 kl
NCV:	10 250 kcal/kg

Automotive Diesel Oil

General Tax (VAT): Applies to non-commercial use. See general notes for Belgium.

Excise Tax: As shown in excise tax column.

Prices shown are the legal maximum pump prices based on the imposed calculation "contrat de programme".

Gasoline

General Tax (VAT)

From	To	%
01.01.78	31.09.80	16
01.10.80	31.03.92	25
01.04.92	31.12.93	19.5
01.01.94	31.12.95	20.5
01.01.96	now	21

Excise Tax

Premium Leaded/Leaded Substitute

From	To	EUR/ litre	BEF/ litre
01.01.78	30.09.79	0.188	7.60
01.10.79	30.06.81	0.209	8.45
01.07.81	30.09.82	0.233	9.40
01.10.82	21.03.83	0.253	10.20
01.04.83	31.12.88	0.278	11.20
01.01.89	03.08.89	0.297	12.00
04.08.89	31.12.89	0.317	12.80
01.01.90	03.03.91	0.343	13.85
04.03.91	31.08.91	0.361	14.55
01.09.91	31.03.92	0.378	15.25
01.04.92	31.08.92	0.408	16.45
01.09.92	31.07.93	0.450	18.15
01.08.93	30.11.93	0.464	18.70
01.12.93	29.10.95	0.483	19.50
30.10.95	31.12.95	0.504	20.35
01.01.96	06.10.96	0.524	21.15
07.10.96	29.12.96	0.545	21.98
30.12.96	31.12.99	0.565	22.81
01.01.00	31.12.02	0.522	21.07
01.01.03	now	no longer consumed	

Unleaded Gasoline

From	To	EUR/ litre	BEF/ litre
01.01.90	31.08.91	0.307	12.40
01.09.91	31.03.92	0.325	13.10
01.04.92	31.08.92	0.352	14.20
01.09.92	31.07.93	0.377	15.20
01.08.93	30.11.93	0.390	15.75
01.12.93	29.10.95	0.415	16.75
30.10.95	31.12.95	0.446	18.00
01.01.96	06.10.96	0.466	18.80
07.10.96	29.12.96	0.487	19.63
30.12.96	31.12.03	0.507	20.46
01.01.04	09.06.04	0.537	
10.06.04	15.04.05	0.564	
16.04.05	30.09.07	0.592	
01.10.07	now	0.623	

Prices shown are the legal maximum pump prices based on the imposed calculation "contrat de programme".

Specifications

Grades:	Leaded Substitute (1Q01 to 4Q02) Leaded Premium (prior to 1Q01)
Octane:	98 and 95 RON
Lead Content:	0.37 - 0.73 g/litre
Density:	0.74 t/kl

Automotive LPG**Specifications**

Density:	0.540 t/kl
----------	------------

NATURAL GAS

General Tax (VAT): Applies to households. See general notes for Belgium.

Excise Tax: Applies to households.

From	To	EUR/ 10 ⁷ kcal	BEF/ 10 ⁷ kcal
01.08.93	now	14.18	572

Prices shown refer to average annual and quarterly revenues per 10⁷ kcal which Belgian gas utilities received from industry, electric power stations and households.

Specifications

GCV:	8 400 kcal/m ³
------	---------------------------

Source: Fédération de l'Industrie du Gaz (FIGAZ); *Annuaire Statistique 2000*.

COAL

Unless specified otherwise, prices shown refer to quarterly averages.

Source: Ministry of Economic Affairs.

Steam Coal for Industry

From 1Q92 onwards, prices are no longer available. From 1Q78 to 4Q91, prices refer to the weighted average import price (CIF) for industrial customers. This price is often lower than the average import price for industry and power stations because Belgian industry (cement factories) uses a particularly low-quality steam coal. See notes regarding import prices at the end of Part I.

Steam Coal for Electricity Generation

From 1Q84 onwards, prices refer to quarterly averages of import prices. Prior to 4Q83, annual and quarterly prices are the weighted average of prices paid for domestic coal (ex-mine) and imported coal (CIF) in BEF/GJ. By agreement Belgian utilities have to meet a certain amount of their requirements on the domestic market at prices above those of imported coal. From 1Q81 onwards, prices include demurrage costs.

Specifications

NCV:	5 338 kcal/kg (assumed)
------	-------------------------

Steam Coal for Households**General Tax (VAT)**

From	To	%
01.01.78	31.03.92	16
01.04.92	now	12

Excise Tax:

From	To	EUR/tonne
01.04.04	31/03/05	8.65
01.04.05	now	0

From 1Q95 onwards, prices refer to the average consumer prices for Anthracite 12/22, based on monthly surveys conducted by the Ministry of Economic Affairs. Prior to 1Q95, prices refer to the weighted average of various import prices (CIF) for Anthracite (12/22).

Coking Coal for Industry

From 1Q88 onwards, prices refer to the weighted average import price (CIF), as the domestic coal price was no longer representative due to the closure of three of

the five existing Belgian coal mines. Prior to 4Q87, prices shown refer to domestic coal, qualities Standard and Winterslag.

Specifications

Quality:	Standard (1Q81 – 4Q87) Winterslag (1Q78 – 4Q80)
Volatility:	24% (Standard)
Ash Content:	7% (Standard)
Water Content:	9% (Standard), 7% (Winterslag)

ELECTRICITY

The average prices reflect supply by electricity companies to end-users, calculated as annual average revenues per kWh sold by public utilities and electricity companies from high-voltage users (industry) and low-voltage users (households), and are based on a certain percentage of the electricity consumed.

Source: Fédération Professionnelle des Producteurs et distributeurs d'Electricité de Belgique, *Annuaire Statistique 2002*.

Households

General Tax (VAT)

From	To	%
01.01.78	30.06.81	16
01.07.81	now	general VAT

Excise Tax

From	To	EUR/kWh	BEF/kWh
01.08.93	now	0.0014	0.055

ENERGY PRICE INDICES

Annual figures are 12-month averages.

Quarterly indices refer to the three-month average.

Source: ECODATA, SPF Economie, P.M.E., Classes Moyennes & Energie.

Oil Products

Wholesale: Refinery of crude oil (raffinage de pétrole).

Retail: Weighted average of automotive fuels (carburants), liquid fuels (combustibles liquides) and petroleum gases (gaz de pétrole).

Electricity

Wholesale: Production and distribution of electricity (production et distribution d'électricité).

Retail: Electricity (électricité).

Natural Gas

Wholesale: Production and distribution of gas (production et distribution de gaz).

Retail: Natural gas (gaz naturel).

Coal Products

Wholesale: Coal (charbon).

Retail: Solid fuels (combustibles solides).

CANADA

GENERAL NOTES

From 1Q93 onwards, prices refer to the monthly averages of the quarter. Prior to 1Q93, prices refer to the first month of the quarter. See individual products for details.

Goods and Services Tax (GST): Since January 1, 1991 a federal Goods and Services Tax (GST) is levied on all petroleum products. This consumption tax replaced the Federal Sales Tax (FST) which had been set at 13.5%. The GST initially established at 7% was reduced to 6% on July 1, 2006, and to 5% on January 1, 2008. All prices shown include this tax.

Harmonised Sales Tax (HST): On April 1, 1997, some provinces harmonised their sales tax with the GST. From 1 January 2008 onwards, the HST was levied at 13%. From 1 July 2007 to 31 December 2007, it was 14%. From 1 April 1997 to 30 June 2007 it was 15%.

OIL PRODUCTS

High Sulphur Fuel Oil

Prices are average actual prices paid by industrial and commercial enterprises for high and low sulphur heavy fuel oil. The prices do not include taxes.

Specifications

Quality: HFO No. 6
Density: 0.95 t/kl
Delivery Size: Tank-wagon loads

Sources: Natural Resources Canada. From 1Q92 onwards, the bulk contract price as quoted in *Bloomberg's Oil Buyers Guide*. From 1Q78 to 4Q91, monthly survey of the Canadian Refining Industry.

Heavy Fuel Oil for Electricity Generation

Source: Statistics Canada, *Consumption of Purchased Fuel and Electricity by the Manufacturing, Mining, Logging and Electric Power Industries* (Cat. no: 57-208) and *Electric Power Statistics Annual Statistics*, Vol. 2 (Cat. No. 57202).

Light Fuel Oil for Industry

Prices shown in the main table are the average refinery terminal prices at Montreal and Toronto, after discounts.

Special Taxes: Prices do not include taxes.

Specifications

Quality: Light Fuel Oil No. 2 (Furnace)
Density: 0.83 t/kl

Sources: Ministry of Energy, Mines and Resources. From 1Q92 onwards, the rack price as quoted in *Bloomberg's Oil Buyers Guide*. From 1Q78 to 4Q91, monthly survey among accounting departments of all major oil companies.

Light Fuel Oil for Households

Special Taxes: Retail domestic heating oil prices include the GST/HST and all other applicable provincial taxes.

The prices are a weighted average based on provincial prices.

Specifications

Quality: Light Fuel Oil No. 2 (Furnace)
Density: 0.83 t/kl

Sources: Statistics Canada; monthly Consumer Price Index survey among consumers throughout Canada. Covers about 80% of the total market.

Automotive Diesel Oil

Special Taxes: Prices shown include the following:

Goods and Services Tax (1991 onwards)
Federal Sales Tax (prior to 1991)
Federal Excise Tax
Provincial Sales Tax
Provincial consumption taxes
Urban taxes

Source: Natural Resources Canada.

Gasoline

Special Taxes: Prices shown include the following:

Goods and Services Tax (1991 onwards)
Federal Gasoline Sales Tax (prior to 1991)
Federal Excise Tax
Provincial Sales Tax
Provincial Consumption Taxes
Urban taxes

As some of these taxes are ad valorem, the amount of taxes varies with the price of gasoline. The federal and provincial tax components of the Canadian average price, on 1 January of each year, are given below.

Premium Unleaded			
As of	Federal Sales Tax CAD/litre	Federal Excise Tax CAD/litre	Provincial Sales Tax CAD/litre
01.01.82	0.025	0.041	0.089
01.01.83	0.029	0.044	0.102
01.01.84	0.033	0.047	0.093
01.01.85	0.039	0.054	0.097
01.01.86	0.041	0.076	0.097
01.01.87	0.040	0.085	0.097
01.01.88	0.034	0.089	0.105
01.01.89	0.034	0.099	0.11
01.01.90	0.037	0.085	0.108
01.01.91	0.045	0.085	0.108
01.01.92	0.040	0.085	0.153
01.01.93	0.040	0.085	0.152
01.01.94	0.040	0.085	0.154
01.01.95	0.025	0.1	0.156
01.01.96	0.042	0.1	0.154
01.01.97	0.045	0.1	0.153
01.01.98	0.042	0.1	0.161
01.01.99	0.039	0.1	0.159
01.01.00	0.047	0.1	0.162
01.01.01	0.052	0.1	0.163
01.01.02	0.044	0.1	0.162
01.01.03	0.055	0.1	0.169
01.01.04	0.054	0.1	0.174
01.01.05	0.058	0.1	0.176
01.01.06	0.068	0.1	0.180
01.01.07	0.054	0.1	0.174
01.01.08	0.054	0.1	0.177

Regular Unleaded			
As of	Federal Sales Tax CAD/litre	Federal Excise Tax CAD/litre	Provincial Sales Tax CAD/litre
01.01.82	0.025	0.04	0.076
01.01.83	0.028	0.043	0.086
01.01.84	0.032	0.046	0.081
01.01.85	0.038	0.053	0.084
01.01.86	0.040	0.075	0.085
01.01.87	0.039	0.083	0.084
01.01.88	0.034	0.089	0.095
01.01.89	0.033	0.098	0.099
01.01.90	0.036	0.085	0.11
01.01.91	0.041	0.085	0.116
01.01.92	0.035	0.085	0.113
01.01.93	0.035	0.085	0.14
01.01.94	0.031	0.085	0.143
01.01.95	0.019	0.1	0.144
01.01.96	0.036	0.1	0.145
01.01.97	0.038	0.1	0.146

As of	Federal Sales Tax CAD/litre	Federal Excise Tax CAD/litre	Provincial Sales Tax CAD/litre
01.01.98	0.036	0.1	0.152
01.01.99	0.033	0.1	0.152
01.01.00	0.042	0.1	0.155
01.01.01	0.046	0.1	0.156
01.01.02	0.039	0.1	0.154
01.01.03	0.048	0.1	0.161
01.01.04	0.047	0.1	0.165
01.01.05	0.051	0.1	0.166
01.01.06	0.062	0.1	0.170
01.01.07	0.049	0.1	0.166
01.01.08	0.049	0.1	0.169

Specifications

Grade and Octane:

Premium Unleaded 91 RdON (97 RON)

Mid-grade Unleaded 89 RdON (95 RON)

Regular Unleaded 87 RdON (92 RON)

Magnesium Content: 18 mg/litre

Price shown is weighted average pump price of full service and self service stations throughout Canada.

Source: Statistics Canada, *Consumer Prices and Price Indices*, quarterly, for Premium Unleaded (97 RON) Gasoline and Regular Unleaded (92 RON) Gasoline. MJ Ervin & Associates, *Weekly Pump Price Survey*, for Premium Unleaded (95 RON) Gasoline.

NATURAL GAS

Natural gas prices include the GST and all other applicable taxes.

Specifications

GCV: 8 892 kcal/m³

Industry

Price shown is the monthly average revenue per 10⁷ kcal received by gas utilities from industry.

Source: Statistics Canada, monthly questionnaire survey among gas utilities covering about 90% of the market.

Electricity Generation

Price shown is average annual expenditure incurred by electric utilities for 10⁷ kcal of natural gas.

Source: Statistics Canada, *Consumption of Purchased Fuel and Electricity by Manufacturing, Mining, Logging and Electric Power Industries and Electric Power Statistics*, Vol. 2 (Cat. No. 57-202).

Households

Price shown is monthly average expenditure per 10⁷ kcal incurred by households.

Source: Statistics Canada, monthly questionnaire survey among households, covering about 90% of the market.

COAL

According to the terms of the Canada-United States Free Trade Agreement, the value of coal imported from the U.S. is no longer declared to Canadian customs officials. From 1Q90 onwards, industrial coal prices, which were largely determined by the import price, are no longer available.

Steam Coal for Industry

Average price of bituminous coal paid at the gate of the user (90% imported, 10% domestic).

Specifications

NCV: 7 127 kcal/kg

Primary source: Natural Resources Canada.

Steam Coal for Electricity Generation

Price shown is average annual expenditure incurred by electric utilities for one tonne of bituminous coal (Canadian and imported).

Source: Statistics Canada, *Consumption of Purchased Fuel and Electricity of the Manufacturing, Mining, Logging and Electric Power Industries and Electric Power Statistics*, Vol. 2 (Cat. No. 57-202).

Coking Coal for Industry

Price for coal imported from the U.S. used by the iron and steel industry in Ontario, as paid at the gate of the user.

Specifications

NCV: 7 164 kcal/kg

Source: Natural Resources Canada.

ELECTRICITY

Since 1990, prices for households refer to residential sector. Prices for industry are the weighted average of two tariff categories: 1000 kW and 5000 kW.

Prior to 1990, prices shown in main table are annual average revenues per kWh received by the Canadian utilities from all industrial sectors (including mining) and from households (and agricultural units of some provinces). These prices include provincial taxes, which are not available separately, but the GST tax is rebated and is therefore not included in the price shown.

Sources: Since 1990, Office of Energy Efficiency, Natural Resources Canada. Prior to 1990, Price Division, Statistics Canada.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Statistics Canada, CANSIM database.

Oil Products

Wholesale: Table 329-0046, gasoline and fuel oil.

Retail: Table 326-001, weighted average of gasoline and fuel oil and other fuels.

Electricity

Wholesale: Table 329-0050.

Retail: Table 326-001, electricity.

Natural Gas

Wholesale: Table 330-0006, natural gas.

Retail: Table 326-001, natural gas.

Coal Products

Wholesale: Table 330-0006, coal (thermal).

CZECH REPUBLIC

GENERAL NOTES

From 1Q01 onwards, prices and taxes are based on surveys conducted by the Czech Statistical Office.

The prices of oil products are based on information on prices and quantities sold by the network of respondents in the whole Czech Republic. The prices of natural gas and electricity represent the average of the total sales and quantities sold in the whole Czech Republic.

The independent Czech Republic originated on 1 January 1993. The prices and taxes listed before 1Q93 are for Czechoslovakia. Certain historical series have been revised by the Czech Administration.

Notes submitted by Czech Administration refer to prices and taxes after 1 January 1993.

General Tax (VAT): VAT is not contained in the prices and taxes shown for industry and electricity generation and automotive diesel for commercial purposes because it is refunded.

Sources: Ministry of Industry and Trade of the Czech Republic; Ministry of Finance of the Czech Republic, Czech Statistical Office.

OIL PRODUCTS

High Sulphur Fuel Oil

General Tax (VAT)

From	To	%
01.01.93	30.06.94	5
01.07.94	31.12.94	23
01.01.95	30.04.04	22
01.05.04	now	19

Excise Tax

From	To	CZK/tonne
01.01.04	now	472

Specifications

Average Density:	0.99 t/kl
Sulphur Content:	≤ 3%
NCV:	9 532 kcal/kg

Low Sulphur Fuel Oil

General Tax (VAT)

From	To	%
01.01.01	30.04.04	22
01.05.04	now	19

Excise Tax

From	To	CZK/tonne
01.01.04	now	472

Specifications

Average Density:	0.91 t/kl
Sulphur Content:	≤ 1%
NCV:	9 793 kcal/kg

Light Fuel Oil

General Tax (VAT)

From	To	%
01.01.93	30.06.94	5
01.07.94	31.12.94	23
01.01.95	30.04.04	22
01.05.04	now	19

Excise Tax

From	To	CZK/kl	CZK/tonne
01.01.95	31.12.95	2 000	2 200
01.01.96	31.12.97	7 589	8 340
01.01.98	30.06.99	7 917	8 700
01.07.99	31.12.03	8 150	9 477
01.01.04	now	9 950	11 570

As of 1 January 1996, the excise tax of LFO used for generation of thermal energy is refunded. As of 1 January 2004, the excise tax of LFO used for generation of thermal energy is partly refunded (9 290 CZK/kl).

Specifications

From	To	Sulphur Content (%)	Avg Density (t/kl)	NCV (kcal/kg)
Prior to	31.03.99	≤ 2	0.91	9 797
01.04.99	31.12.00	≤ 1	0.86	9 797
01.01.01	now	≤ 0.2	0.86	10 031

Automotive Diesel

General Tax (VAT)

From	To	%
01.01.93	31.12.94	23
01.01.95	30.04.04	22
01.05.04	now	19

Excise Tax

From	To	CZK/ litre	CZK/ tonne
01.01.93	31.12.94	6.95	8 250
01.01.95	31.12.95	7.03	8 340
01.01.98	30.06.99	7.33	8 700
01.07.99	31.12.03	8.15	9 668
01.01.04	now	9.95	11 803

Specifications

Average density: 0.843 t/kl
 NCV: 10 177 kcal/kg

Gasoline**General Tax (VAT)**

From	To	%
01.01.93	31.12.94	23
01.01.95	30.04.04	22
01.05.04	now	19

Excise Tax**Leaded**

From	To	CZK/ litre	CZK/ tonne
01.01.93	31.12.93	8.20	10 800
01.01.94	31.12.94	8.71	11 465
01.01.95	31.12.97	8.79	11 570
01.01.98	30.06.99	9.842	12 950
01.07.99	31.12.00	10.84	14 263
01.01.01	now	no longer consumed	

Unleaded

From	To	CZK/ litre	CZK/ tonne
01.01.93	31.12.93	7.18	9 390
01.01.94	31.12.94	7.69	10 055
01.01.95	31.12.95	7.77	10 160
01.01.96	31.12.97	8.79	11 570
01.01.98	30.06.99	9.84	12 950
01.07.99	31.12.03	10.84	14 263
01.01.04	now	11.84	15 579

Specifications

Premium Unleaded 98 RON gasoline

Quality: Super Plus 98

Premium Unleaded 95 RON gasoline

Quality: Natural 95

Regular Unleaded 91RON gasoline

Quality: Special 91, Natural 91, Normal 91

Density: 0.760 t/kl (average)

NCV: 10 412 kcal/kg

Premium Leaded 96 RON and Regular Leaded 91 RON gasoline have not been sold since 2001.

Automotive LPG**General Tax (VAT)**

From	To	%
01.01.93	31.12.97	5
01.01.98	30.04.04	22
01.05.04	now	19

Excise Tax

From	To	CZK/ litre	CZK/ tonne
01.01.93	31.12.97	1.30	2 370
01.01.98	31.12.03	1.57	2 850
01.01.04	now	2.16	3 930

Specifications

Average density: 0.550 t/kl

NATURAL GAS**General Tax (VAT)**

From	To	%
01.01.93	31.12.97	5
01.01.98	30.04.04	22
01.05.04	now	19

Specifications

GCV:

From	To	kcal/ m ³
Prior to	31.12.00	8 200
01.01.01	now	9 030

From 2002 to 2005 average prices were calculated for individual reference consumers based on the Council Directive 90/337/EEC.

COAL**General Tax (VAT)**

From	To	%
01.01.93	31.12.97	5
01.01.98	30.04.04	22
01.05.04	now	19

As of 4Q96, coal prices for industry are calculated as the unweighted arithmetic average of prices from selected types of coal collected from producers, and do not include transport costs. The prices for households represent average consumer prices of coal sold by the network of stores in the entire Czech Republic.

Steam Coal for Industry

Specifications

Quality: Brown coal, industrial mixtures
NCV: 3 500 - 4 000 kcal/kg

Steam Coal for Electricity Generation

Specifications

Quality: Brown coal, industrial mixtures
NCV: 2 100 - 3 000 kcal/kg

Steam Coal for Households

Specifications

Quality: Brown coal/Nut coal No.1
(orech 1)
NCV: 3 500 - 4 000 kcal/kg

Coking Coal for Industry

Specifications

NCV: 6 500 kcal/kg

ELECTRICITY

General Tax (VAT)

From	To	%
01.01.93	31.12.97	5
01.01.98	30.04.04	22
01.05.04	now	19

As of 1Q04 average prices are calculated for individual reference consumers based on the Council Directive 90/337/EEC. Prior to 1Q04 average prices of electricity for industry and households were calculated from the quarterly surveys and were adjusted for structural influences using the industrial producer price index.

ENERGY PRICE INDICES

Source: Correspondence with Czech Statistical Office.

Wholesale: indices are related to indices of industrial producer prices calculated according to the CPA classification.

Retail: indices are related to indices of consumer prices calculated according to the COICOP (Classification of Individual Consumption by Purpose).

Oil Products

Wholesale: Indices of producer prices of oil products excluding VAT and cost of transport to consumer and related costs.

Retail: Indices of consumer prices of fuels including VAT, excise tax cost of transport to petrol stations and related costs.

Electricity

Wholesale: Indices of producer prices of electricity excluding VAT and including cost of transport to consumer and related costs.

Retail: Indices of consumer prices of electricity including VAT, cost of transport to consumer and related costs.

Natural Gas

Retail: Indices of consumer prices of natural gas including VAT, cost of transport to consumer and related costs.

Coal

Wholesale: Indices of producer prices of coal excluding VAT and cost of transfer to consumer and related costs.

Retail: Indices of consumer prices of coal including VAT, cost of transport to consumer and related costs.

DENMARK

GENERAL NOTES

From 1Q93 onwards, quarterly prices refer to daily averages. From 1Q85 to 4Q92, quarterly prices refer to the second month of each quarter. Prior to 1Q85, prices refer to the first month of each quarter. See individual products for exceptions.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel oil for commercial purposes because it is refunded.

From	To	%
01.01.78	01.10.78	18
02.10.78	30.06.80	20
01.07.80	31.12.91	22
01.01.92	now	25

Special Taxes

Labour Market Tax: From 1 February 1989 to 31 December 1991, this compulsory labour market tax, fixed at 2.5% of the basis of calculation of VAT, was imposed upon enterprises.

CO₂ Tax: From January 1993 onwards, a CO₂ tax of 50 DKK/tonne is levied on VAT-registered enterprises. From May 1992 to December 1992, a CO₂ tax of 100 DKK/ tonne of CO₂ was levied on private energy consumption (household and public service).

Energy Tax: The energy tax is differentiated even more than the CO₂ tax, different tax rates applying both for different energy products and for different uses of the same product. Fuels for electricity generation are exempt from the tax, as it applies as an output tax on electricity.

Sulphur Tax: From 1996 to 2000, in an effort to encourage a further shift from sulphur-rich to sulphur-poor fuels in combustion processes, e.g. from high-sulphur to low-sulphur coal or to natural gas, a sulphur tax of 10 DKK/kg SO₂ was phased in. The tax is differentiated only according to the sulphur content of fuels (not on energy use). Prior to end-1999, fuels used for electricity generation were exempt from the tax, but the tax rate for electricity was calculated according to individual power plants' sulphur quotas. As a special concession, the 1996 rate will apply to coal used in certain high energy-consuming boilers and furnaces for a maximum transition period of 20 years.

OIL PRODUCTS

From 1975 to December 1985, major oil products were subject to maximum price legislation.

Sources: Konkurrencestyrelsen, Copenhagen, following specifications of EC decision of 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Low Sulphur Fuel Oil

Special Taxes

Environment Tax

From	To	DKK/ tonne
15.05.92	31.12.04	320
01.01.05	now	288

The portion of the environment tax that is refunded to industry is as follows:

From	To	%
15.05.92	31.12.92	100
01.01.93	31.12.96	50
01.01.97	31.12.97	40
01.01.98	31.12.98	30
01.01.99	31.12.99	20
01.01.00	now	10

Sulphur Tax

From	To	DKK/ tonne
01.01.96	31.12.96	94
01.01.97	31.12.97	78
01.01.98	31.12.98	98
01.01.99	31.12.99	118
01.01.00	now	100

Compulsory Storage Fee: These amounts are included in the price but not in the tax column for the periods for which it was applied.

From	To	DKK/ tonne
01.01.79	31.03.79	25
01.04.79	30.06.79	5
01.07.82	31.05.85	25

Prices shown represent the average heavy fuel oil price to the light-process industrial sector and are the amounts actually paid (after rebates). Short- and long-term rebates, which occur frequently, have been deducted.

Specifications

Quality: Svaer Fuelolie

Sulphur Content:

From	To	%
Prior to	30.09.85	2-3
01.10.85	31.01.89	1.5
01.02.89	31.12.95	1
01.01.96	31.12.96	0.87
01.01.97	31.12.97	0.69
01.01.98	now	0.5

Viscosity: 3 500 Ns/m², in redwood at 80°

Delivery Size: ≥ 1 000 tonnes/year

Average Density: 0.975 t/kl

NCV: 9 650 kcal/t

Heavy Fuel Oil for Electricity Generation

Prices shown are quarterly averages of CIF import prices for cargoes of 30-50 thousand tonnes. Only very small amounts are used for electricity generation (approximately 2% of total inputs).

Light Fuel Oil**General Tax (VAT):** See general notes for Denmark.**Excise Tax:** Amounts are not included in the industry price and tax columns as they are refunded.

From	To	DKK/ kl
01.01.79	30.06.79	72
01.07.79	30.09.80	305
01.10.80	12.12.85	367
13.12.85	28.02.86	480
01.03.86	21.03.86	610
22.03.86	17.10.86	1 540
18.10.86	13.11.87	1 850
14.11.87	14.05.92	1 760
15.05.92	30.06.98	490
01.07.98	31.12.99	1 700
01.01.00	31.12.00	1 730
01.01.01	31.12.01	1 780
01.01.02	31.12.04	1 830
01.01.05	now	1 857

Special Taxes*Environment Tax*

From	To	DKK/ kl
15.05.92	31.12.04	270
01.01.05	now	243

The following amounts of environmental tax are refunded for industry:

From	To	%
01.01.93	31.12.95	50
01.01.96	31.12.96	37
01.01.97	31.12.97	23
01.01.98	now	10

Compulsory Storage Fee: This fee is included in the price but not in the tax column for the periods during which it was levied.

From	To	DKK/ kl
01.01.79	01.11.79	25.40
01.03.81	30.06.81	25.05
01.07.81	31.05.85	41.72

Industry prices represent the average price in the light-process industrial sector.

Specifications

Quality: Fyringsolie

Average Density: 0.8594 t/kl

Delivery Size: 2 - 5 t/year

NCV: 10 175 kcal/t

Automotive Diesel**General Tax (VAT):** Applies to non-commercial use. See general notes for Denmark.

Excise Tax: From 1 July 1991 onwards, only 0.66 DKK/litre of the excise tax is refunded to industrial consumers, as shown in the tax column. The price and tax shown in the column is the price and tax actually paid. Prior to 1 July 1991, the excise tax was not included in the price as it was refunded to commercial and industrial consumers.

From	To	DKK/ litre
01.01.79	30.06.79	0.07
01.07.79	30.09.80	0.30
01.10.80	12.12.85	0.36
13.12.85	28.02.86	0.48
01.03.86	21.03.86	0.61
22.03.86	17.10.86	1.54
18.10.86	13.11.87	1.85
14.11.87	14.05.92	1.76
15.05.92	30.09.92	1.49
01.10.92	31.12.94	1.67
01.01.95	31.12.95	1.90
01.01.96	31.12.96	1.92
01.01.97	31.05.99	2.02
01.06.99	31.03.01	2.30
01.04.01	31.12.04	2.48
01.01.05	now	2.487

Special Taxes

Environment Tax: This tax is not refundable to industrial consumers.

From	To	DKK/ litre
15.05.92	31.12.04	0.27
01.01.05	now	0.243

Compulsory Storage Fee: These amounts are included in the price but not in the tax column for the periods for which it was levied.

From	To	DKK/ litre
01.01.79	01.11.79	0.025
01.03.81	30.06.81	0.025
01.07.82	31.05.85	0.041

Prices refer to prices at self-service stations. Short- and long-term rebates, which occur frequently, have been deducted.

Specifications

Quality:	Diesel
Average Density:	0.845 t/kl
Cetane Number:	46
NCV:	10 175 kcal/t

Gasoline

General Tax (VAT): See general notes for Denmark.

Excise Tax**Leaded**

From	To	DKK/ litre
01.01.79	30.06.79	1.32
01.07.79	30.06.80	1.82
01.07.80	14.06.82	1.92
15.06.82	31.12.82	2.25
01.01.83	31.12.85	2.27
01.01.86	28.02.86	2.52
01.03.86	31.03.86	2.77
01.04.86	31.05.89	3.70
01.06.89	31.12.89	3.62
01.01.90	30.06.90	3.26
01.07.90	10.07.92	2.90
11.07.92	17.03.93	2.74
18.03.93	31.12.93	2.46
01.01.94	31.03.94	2.66
01.04.94	30.09.94	2.71
01.10.94	31.12.94	2.76
01.01.95	31.03.95	3.11
01.04.95	06.04.95	3.16
07.04.95	30.09.95	3.18
01.10.95	31.12.95	3.23

Unleaded

From	To	DKK/ litre
01.01.83	17.10.86	2.27
18.10.86	30.11.87	3.38
01.12.87	31.05.89	3.33
01.06.89	31.12.89	3.15
01.01.90	30.06.90	2.70
01.07.90	31.12.93	2.25
01.01.94	31.03.94	2.45
01.04.94	30.09.94	2.50
01.10.94	31.12.94	2.55
01.01.95	31.03.95	2.90
01.04.95	06.04.95	2.95
07.04.95	30.09.95	2.97
01.10.95	31.12.95	3.02
01.01.96	31.12.96	3.27
01.01.97	31.12.97	3.32
01.01.98	31.12.98	3.37
01.01.99	31.12.99	3.77
01.01.00	31.12.00	3.87
01.01.01	31.12.01	3.97
01.01.02	31.12.04	4.07
01.01.05	now	3.81

Special Taxes

Environment Tax:

From	To	DKK/ litre
01.01.05	now	0.22

Compulsory Storage Fee: These amounts are included in the price but not in the tax column for the periods for which it was levied.

From	To	DKK/ litre
01.04.79	31.12.79	0.008
01.07.81	30.06.82	0.016
01.07.82	30.09.85	0.074
01.10.85	31.12.85	0.041
01.01.86	31.01.93	0.008

Environment Pool: These amounts are included in the price but not in the tax column.

From	To	DKK/ litre
01.04.93	31.03.94	0.025
01.04.94	now	0.040

Prices refer to list prices at self-service stations.

Specifications

Grade and Octane:	Premium Leaded 98 RON Premium Unleaded 98 RON Regular Unleaded 92 RON
Lead Content:	0.05 g/litre

NATURAL GAS

General Tax (VAT): Applies to households. See general notes for Denmark.

Excise Tax

From	To	DKK/ 10 ⁷ kcal	DKK/ m ³
01.01.96	31.12.97	9	0.100
01.01.98	31.12.98	9	0.100
01.01.99	31.12.99	1 345	1.470
01.01.00	31.12.00	1 464	1.600
01.01.01	31.12.01	1 793	1.960
01.01.02	31.12.04	1 848	2.020
01.01.05	now	1 868	

Special Tax

Environment Tax

From	To	DKK/ 10 ⁷ kcal	DKK/ m ³
01.01.96	now	201	0.220

The maximum prices for natural gas cannot exceed the regulated maximum prices for light fuel oil in terms of heat equivalents (see average quarterly list prices for light fuel oil bought by households). The natural gas prices shown in the table are the prices actually paid by small consumers.

From 1984 onwards, natural gas prices have been subject to an introductory rebate of 0.40 DKK/m³ on the maximum price, with larger consumers obtaining larger rebates. Prior to 1984, natural gas consumption in Denmark was insignificant.

Prices for industry are not shown due to reasons of confidentiality.

Specifications

GCV: 9 150 kcal/m³

COAL

The price and tax shown in the tables are the amounts actually paid (after rebates).

Steam Coal for Industry and Households

Excise Tax: This tax is not included in price and tax columns for industry as it is refundable.

From	To	DKK/ tonne
01.07.82	31.12.85	127
01.01.86	31.03.86	222
01.04.86	17.10.86	629
18.10.86	31.05.89	675

From	To	DKK/ tonne
01.06.89	14.05.92	765
15.05.92	31.12.94	690
01.01.95	31.12.95	770
01.01.96	31.12.96	860
01.01.97	31.12.97	950
01.01.98	31.12.98	1 150
01.01.99	31.12.99	1 250
01.01.00	31.12.00	1 300
01.01.01	31.12.01	1 350
01.01.02	now	1 425

Special Taxes

Environment Tax (and portion refunded to industry)

From	To	DKK/ tonne	% Refunded to Industry
15.05.92	31.12.92	242	100
01.01.93	now	242	50

Sulphur Tax: Amounts are included in the price but not in the tax column.

From	To	DKK/kg sulphur
01.01.96	31.05.99	20
01.06.99	31.12.99	83
01.01.00	31.12.01	97
01.01.02	now	96

In addition, coal with a sulphur content greater than 0.05% is taxed 20 DKK/kg of sulphur.

Specifications

Sulphur Content:	Industry 0.6%, Households 0.5%
Ash Content:	Industry 5%, Households 6%
Moisture:	Industry 6%, Households 5%
Grain Size:	Industry singles 0/20 mm Households' nut size 40/60 mm imported from Poland
Delivery Size:	≥ 1 000 tonnes
NCV:	7 000 kcal/kg

Steam Coal for Electricity Generation

Quarterly average CIF prices for imported coal from Poland in cargoes of 30-40 thousand tonnes.

ELECTRICITY

Excise Tax: This tax is not shown in the price for industry as it is refunded.

From	To	DKK/ kWh
01.01.79	30.06.79	0.020
01.07.79	29.06.80	0.080

From	To	DKK/ kWh
30.06.80	14.06.82	0.125
15.06.82	31.12.82	0.143
01.01.83	31.12.85	0.155
01.01.86	31.03.86	0.190
01.04.86	31.10.86	0.295
01.11.86	31.05.89	0.325
01.06.89	14.05.92	0.330
15.05.92	31.12.93	0.270
01.01.94	31.12.94	0.300
01.01.95	31.12.95	0.330
01.01.96	31.12.96	0.360
01.01.97	31.12.97	0.400
01.01.98	31.12.98	0.466
01.01.99	31.12.99	0.481
01.01.00	31.12.00	0.490
01.01.01	31.12.01	0.505
01.01.02	31.12.04	0.520
01.01.05	now	0.530

Special Taxes*Payments to Energy Savings*

From	To	DKK/ kWh
01.01.00	now	0.006

Distribution Tariff (DKK/kWh)

From	To	Tariff	Refunded to Industry
01.01.00	now	0.04	0.03

Environment Tax (and portion refunded to industry)

From	To	DKK/ kWh	% Refunded to Industry
15.05.92	31.12.92	0.100	100
01.01.93	31.12.96	0.100	50
01.01.97	31.12.97	0.100	40
01.01.98	31.12.98	0.100	30
01.01.99	31.12.99	0.100	20
01.01.00	31.12.02	0.100	10
01.01.03	31.12.04	0.100	40
01.01.05	now	0.09	40

Sulphur Tax

From	To	DKK/ kWh
01.01.96	31.12.98	0.009
01.01.99	31.12.99	0.013
01.01.00	now	0

The price and tax shown are those actually paid (after rebates).

Industry

National average price for consumption equivalent to 1 000 MWh/year, including standing charges.

Prices shown represent the average electricity price to all industrial sectors.

Households

General Tax (VAT): See general notes for Denmark.

Prices correspond to consumption of 3 MWh/year, including standing charges.

ENERGY PRICES INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average of the quarter.

Source: Statistics Denmark (www.statbank.dk).

Oil Products

Wholesale: Price index for domestic supply, Fuels and lubricants.

Retail: Consumer Price Index, weighted average for "Liquid fuels" and "Fuels and lubricants for personal transport equipment".

Electricity

Retail: Consumer Price Index, Electricity.

Natural Gas

Retail: Consumer Price Index, Gas.

Coal Products

Retail: Consumer Price Index, Solid fuels.

FINLAND

GENERAL NOTES

From 1Q93 onwards, prices refer to the monthly averages of the quarter. From 1Q86 to 4Q92, prices refer to the second month of the quarter (except 3Q88 prices which refer to July 1988). Prior to 4Q85, prices refer to the first month of each quarter. See individual products for exceptions.

General Tax (VAT): Applies to all energy forms. Amounts are not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	% Applied	% Total Price
01.08.86	31.05.89	19.05	16.00
01.06.89	30.11.89	19.76	16.50
01.12.89	31.12.90	20.48	17.00
01.01.91	30.09.91	21.21	17.50
01.10.91	now	22.00	18.03

Special Taxes: From 1 January 1997 onwards, the energy/CO₂ tax is 100% carbon tax. In addition, fuels used in producing electricity are free of the energy/CO₂ tax and precautionary stock fee. Prior to 31 December 1996, the energy/CO₂ tax was approximately 75% carbon tax and 25% energy tax.

The peat tax and the tax subsidies on electricity produced in peat-fired power plants have been abolished. Earlier, small power plants (under 40 MVA) had been receiving tax subsidies. The decree to amend the law concerning the excise tax on electricity and certain fuels became effective on 1 July 2005.

Source: Ministry of Trade and Industry, *Energy Statistics* (annual) and *Energy Review* (quarterly).

OIL PRODUCTS

Excise Tax: From 1 August 1986 onwards, the excise tax on liquid fuels was reduced in order to keep overall tax levels the same.

Special Taxes: Prior to 31 July 1986, a fuel tax was the predominant part of all taxes levied on oil products and shown in the main tables. It represented between 85%-98%, depending on the products. The remaining tax components related to an emergency stock fee and a compensation fee for oil pollution.

From 2Q79 onwards prices refer to self-service prices. Prior to 2Q79, prices refer to full-service prices.

From	To	Price
01.01.78	17.06.84	Uniform maximum pump price for whole country.
18.06.84	now	Deregulated prices.

Low Sulphur Fuel Oil

Excise Tax

From	To	EUR/ tonne	FIM/ tonne
01.01.93	31.12.94	4.20	25.0
01.01.95	31.12.96	4.29	25.5

Special Taxes

Environmental Damage Tax

From	To	EUR/ tonne	FIM/ tonne
01.01.90	31.12.90	3.36	20.0
01.01.91	31.12.92	3.53	21.0
01.01.93	31.12.93	7.01	41.7

Energy/CO₂ Tax

From	To	EUR/ tonne	FIM/ tonne
01.01.94	31.12.94	15.64	93
01.01.95	31.12.96	26.91	160
01.01.97	31.12.97	37.17	221
01.01.98	31.08.98	43.39	258
01.09.98	31.12.02	53.99	321
01.01.03	now	56.80	

Fiscal Charges and Fees

Precautionary Stock Fee

From	To	EUR/ tonne	FIM/ tonne
01.01.74	31.03.75	0.34	2.0
01.04.75	14.06.77	1.77	10.5
15.06.77	31.05.80	0	0
01.06.80	31.12.81	1.68	10.0
01.01.82	31.12.96	3.20	19.0
01.01.97	now	2.86	17.0

Oil Pollution Fee (imports)

From	To	EUR/ tonne	FIM/ tonne
01.01.74	31.12.74	0.02	0.10
01.01.75	31.05.82	0.03	0.15
01.06.82	31.12.83	0.03	0.20
01.01.84	31.12.84	0.17	1.00
01.01.85	31.12.89	0.34	2.00
01.01.90	now	0.37	2.20

Light Fuel Oil**Excise Tax**

From	To	EUR/ kl	FIM/ kl
01.01.93	31.12.94	7.06	42.0
01.01.95	31.12.96	7.20	42.8
01.01.97	31.12.97	17.49	104.0
01.01.98	31.12.02	18.33	109.0
01.01.03	now	19.30	

Special Taxes*Environmental Damage Tax*

From	To	EUR/ kl	FIM/ kl
01.01.90	31.12.90	3.36	20.0
01.01.91	31.12.92	3.53	21.0
01.01.93	31.12.93	7.01	41.7

Energy/CO₂ Tax

From	To	EUR/ kl	FIM/ kl
01.01.94	31.12.94	13.46	80
01.01.95	31.12.96	23.04	137
01.01.97	31.12.97	31.28	186
01.01.98	31.08.98	36.67	218
01.09.98	31.12.02	45.41	270
01.01.03	now	47.80	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ kl	FIM/ kl
01.01.74	31.03.75	0.59	3.5
01.04.75	14.06.77	2.19	13.0
15.06.77	31.05.80	0.00	0.0
01.06.80	31.12.81	2.36	14.0
01.01.82	31.12.96	3.87	23.0
01.01.97	now	3.53	21.0

Oil Pollution Fee (imports)

From	To	EUR/ kl	FIM/ kl
01.01.74	31.05.82	0.02	0.1
01.06.82	31.12.83	0.03	0.2
01.01.84	31.12.84	0.15	0.9
01.01.85	31.12.89	0.29	1.7
01.01.90	now	0.32	1.9

Specifications

Density: 0.84 t/kl

Automotive Diesel Oil

General Tax (VAT): Applies to automotive diesel for non-commercial use. See general notes for Finland. From 1 June to 31 December 1994, VAT is levied on automotive diesel for commercial purposes and is deductible to VAT-registered enterprises. Prior to 31 May 1994, automotive diesel prices for commercial purposes included a sales tax whose percentage was the same as the VAT. This tax was not deductible.

Special Taxes*Excise Tax for sulphur content > 0.005%*

From	To	EUR/ litre	FIM/ litre
01.01.87	31.12.87	0.095	0.5659
01.01.88	08.01.88	0.115	0.6859
09.01.88	25.03.88	0.124	0.7359
26.03.88	01.07.88	0.140	0.8309
02.07.88	31.12.88	0.130	0.7709
01.01.89	31.12.89	0.142	0.8449
01.01.90	31.12.90	0.123	0.7300
01.01.91	31.12.92	0.130	0.7700
01.01.93	31.12.93	0.146	0.8700
01.01.94	31.05.94	0.185	1.1000
01.06.94	31.12.96	0.278	1.6500
01.01.97	31.12.97	0.269	1.5990
01.01.98	31.08.98	0.289	1.7170
01.09.98	31.12.02	0.280	1.6660
01.01.03	now	0.295	

Excise Tax for sulphur content 0.001 - 0.005%

From	To	EUR/ litre	FIM/ litre
01.01.95	31.12.96	0.252	1.500
01.01.97	31.12.97	0.244	1.449
01.01.98	31.08.98	0.264	1.567
01.09.98	31.12.02	0.255	1.516
01.01.03	31.08.04	0.268	
01.09.04	now	0.295	

Excise Tax for sulphur content < 0.001%

From	To	EUR/ litre
01.09.04	now	0.268

Environmental Damage Tax

From	To	EUR/ litre	FIM/ litre
01.01.90	31.12.93	0.045	0.27

Energy/CO₂ Tax

From	To	EUR/ litre	FIM/ litre
01.01.94	31.12.94	0.013	0.078
01.01.95	31.12.96	0.023	0.135
01.01.97	31.12.97	0.031	0.186
01.01.98	31.08.98	0.037	0.218
01.09.98	31.12.02	0.045	0.269
01.01.03	now	0.048	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ litre	FIM/ litre
01.01.74	31.03.75	0.001	0.0075
01.04.75	14.06.77	0.004	0.0225
15.06.77	31.05.80	0	0
01.06.80	31.12.81	0.002	0.014
01.01.82	31.12.96	0.004	0.023
01.01.97	now	0.004	0.021

Oil Pollution Free (imports)

From	To	EUR/ litre	FIM/ litre
01.01.74	31.05.82	0.00002	0.0001
01.06.82	31.12.83	0.00003	0.0002
01.01.84	31.12.84	0.00013	0.0008
01.01.85	31.12.89	0.00029	0.0017
01.01.90	now	0.00032	0.0019

Gasoline**Excise Tax**

Premium Leaded

From	To	EUR/ litre	FIM/ litre
01.01.87	31.12.87	0.335	1.9931
01.01.88	08.01.88	0.187	1.1131
09.01.88	25.03.88	0.196	1.1631
26.03.88	01.07.88	0.215	1.2781
02.07.88	31.12.88	0.202	1.1981
01.01.89	31.12.89	0.207	1.2281
01.01.90	31.12.90	0.215	1.2800
01.01.91	31.12.91	0.266	1.5800
01.01.92	31.05.92	0.283	1.6800
01.06.92	31.12.92	0.316	1.8800
01.01.93	31.12.93	0.395	2.3500
01.01.94	31.12.94	0.389	2.3100
01.01.95	31.12.95	0.506	3.0100
01.01.96	31.12.96	0.574	3.4100
01.01.97	31.12.97	0.567	3.3690
01.01.98	31.08.98	0.596	3.5420
01.09.98	31.12.02	0.588	3.4940
01.01.03	now	0.618	

Premium Unleaded 98 and 95 RON

From	To	EUR/ litre	FIM/ litre
01.01.87	31.12.87	0.126	0.7489
01.01.88	08.01.88	0.146	0.8689
09.01.88	25.03.88	0.155	0.9189
02.07.88	31.12.88	0.160	0.9539
01.01.89	31.12.89	0.160	0.9539
01.01.90	31.12.90	0.215	1.2800
01.01.91	31.12.91	0.266	1.5800
01.01.92	31.05.92	0.283	1.6800
01.06.92	31.12.92	0.316	1.8800
01.01.93	31.12.93	0.395	2.3500
01.01.94	31.12.94	0.389	2.3100
01.01.95	31.12.95	0.431	2.5600
01.01.96	31.12.96	0.498	2.9600
01.01.97	31.12.97	0.491	2.9190
01.01.98	31.08.98	0.520	3.0920
01.09.98	31.12.02	0.512	3.0440
01.01.03	now	0.539	

Special Taxes*Environmental Damage Tax*

Leaded

From	To	EUR/ litre	FIM/ litre
01.01.90	31.12.90	0.045	0.27
01.01.91	31.12.91	0.050	0.30
01.01.92	31.12.92	0.076	0.45
01.01.93	31.12.93	0.084	0.50

Energy/CO₂ Tax

All Grades

From	To	EUR/ litre	FIM/ litre
01.01.94	31.12.94	0.012	0.071
01.01.95	31.12.96	0.021	0.123
01.01.97	31.12.97	0.028	0.164
01.01.98	31.08.98	0.032	0.191
01.09.98	31.12.02	0.040	0.239
01.01.03	now	0.0423	

Fiscal Charges and Fees*Precautionary Stock Fee*

All Grades

From	To	EUR/ litre	FIM/ litre
01.01.74	31.03.75	0.002	0.0125
01.04.75	14.06.77	0.006	0.0340
15.06.77	31.12.77	0	0
01.01.78	31.12.78	0.003	0.0160
01.01.79	31.12.79	0.003	0.0150
01.01.80	31.05.80	0.003	0.0200
01.06.80	31.12.81	0.006	0.0340
01.01.82	31.12.96	0.007	0.0430
01.01.97	now	0.007	0.0400

Oil Pollution Fee (imports)

From	To	EUR/ litrel	EUR/ litre
01.01.74	31.05.82	0.00002	0.0001
01.06.82	31.12.83	0.00003	0.0002
01.01.84	31.12.84	0.00012	0.0007
01.01.85	31.12.89	0.00025	0.0015
01.01.90	now	0.00029	0.0017

Specifications

Grade and Octane:	Premium Leaded 99 RON
	Premium Unleaded 98 RON
	Premium Unleaded 95 RON

NATURAL GAS

General Tax (VAT): See general notes for Finland.

Special Taxes*Environmental Damage Tax*

From	To	EUR/ 10 ⁷ kcal	EUR/ m ³	FIM/ m ³
01.01.90	31.12.90	1.76	0.002	0.0100
01.01.91	31.12.92	1.85	0.002	0.0105
01.01.93	31.12.93	3.68	0.004	0.0209

Energy/CO₂ Tax

From	To	EUR/ 10 ⁷ kcal	EUR/ m ³	FIM/ m ³
01.01.94	31.12.94	11.45	0.011	0.065
01.01.95	31.12.96	9.87	0.009	0.056
01.01.97	31.12.97	12.51	0.012	0.071
01.01.98	31.08.98	14.62	0.014	0.083
01.09.98	31.12.02	18.15	0.017	0.103
01.01.03	now	19.07	0.0182	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ 10 ⁷ kcal	EUR/ m ³	FIM/ m ³
01.01.97	now	0.88	0.001	0.005

Beginning with 1Q01, prices for industry and electricity generation are based on annual consumption of 1 000 GWh, charged capacity of 167 MW, effective time of capacity use 6 000 h/a. Household prices are based on 50 GWh/a, 12.5 MW, 4 000 h/a. Prior to 1Q01, prices shown are the average contract prices for industry and households.

Specifications

GCV:	10 476 kcal/m ³ at 15°C (original series in m ³ , NCV, 0°C).
------	---

COAL*Steam and Coking Coal for Industry***Special Taxes***Environmental Damage Tax*

From	To	EUR/ tonne	FIM/ tonne
01.01.90	31.12.90	2.69	16.00
01.01.91	31.12.92	2.83	16.80
01.01.93	31.12.93	5.61	33.38

Energy/CO₂ Tax

From	To	EUR/ tonne	FIM/ tonne
01.01.94	31.12.94	11.30	67.2
01.01.95	31.12.96	19.53	116.1
01.01.97	31.12.97	28.42	169.0
01.01.98	31.08.98	33.40	198.6
01.09.98	31.12.02	41.37	246.0
01.01.03	now	43.52	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ tonne	FIM/ tonne
01.01.97	now	1.18	7

Prices shown refer to hard coal delivered to consumers with an annual consumption of at least 40 000 tonnes. It is an average import price that includes temporary storage in commercial ports and road transport cost/100 km.

ELECTRICITY*Industry***Excise Tax**

From	To	EUR/ kWh	FIM/ kWh
Prior to	31.12.96	see tax column	
01.01.97	31.03.97	0.0040	0.0240
01.04.97	31.12.97	0.0024	0.0145
01.01.98	31.08.98	0.0034	0.0202
01.09.98	31.12.02	0.0042	0.0250
01.01.03	31.12.06	0.0044	
01.01.07	now	0.0022	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ kWh	FIM/ kWh
01.01.97	now	0.0001	0.00075

From January 2007, prices refer to the national average for a consumption of 2 000 to 19 999 MWh/year in a medium-scale industry; data collection for industrial electricity prices now follows the new methodology of Eurostat. Prices prior to September 2006 refer to the national average for a consumption of 2 000 MWh/year of high voltage over at least 4 000 hours/year in a medium scale industry.

Households

General Tax (VAT): See general notes for Finland.

Excise Tax

From	To	EUR/ kWh	FIM/ kWh
prior to	31.12.96	See tax column	
01.01.97	31.03.97	0.0040	0.024
01.04.97	31.08.98	0.0056	0.033
01.09.98	31.12.02	0.0069	0.041
01.01.03	now	0.0073	

Fiscal Charges and Fees*Precautionary Stock Fee*

From	To	EUR/ kWh	FIM/ kWh
01.01.97	now	0.0001	0.00075

Price shown refers to electricity used for non-heating purposes in a single house (120 m²) at a rate of 5.0 MWh/year with 3x25A.

ENERGY PRICE INDICES

Annual indices are 12-month averages.

From 1Q93 onwards, quarterly indices refer to the three-month average of the quarter. Prior to 4Q92, quarterly indices refer to the second month.

Source: Correspondence with Statistics Finland.

Oil Products

Wholesale: Petroleum products.

Retail: Light fuel oil.

Coal Products

Wholesale: Anthracite.

FRANCE

GENERAL NOTES

From 1Q90 onwards, prices refer to the weekly averages of the quarter. From 1Q85 to 4Q89, prices refer to the second month of each quarter. Prior to 1Q85, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): VAT is not usually included in prices shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded. For more information see oil products, below.

From	To	%
01.01.78	30.06.82	17.6
01.07.82	31.07.95	18.6
01.08.95	31.3.00	20.6
01.04.00	now	19.6

OIL PRODUCTS

Excise Taxes

TIPP (Taxe Intérieure sur les Produits Pétroliers):

From 1 October 2000 to 21 July 2002, the TIPP was allowed to "float". This excise tax (varies according to the price of crude oil, using the North Sea Brent price as a benchmark) was levied on light fuel oil, automotive diesel for non-commercial use and premium gasoline. When the price of benchmark crude oil increased by more than 10%, the amount of TIPP decreased by the same amount. Inversely, when the price of benchmark crude oil decreased by more than 10%, the TIPP increased. The crude oil price and any variation in the TIPP was reviewed each year on 21 January, 21 March, 21 May, 21 July, 21 September and 21 November. Since 22 July 2002, the TIPP no longer depends on the price of oil, but only on volume. From 1 January 2005, French regions receive a fraction of the TIPP (e.g. a maximum of 1.15 Euro cents for diesel) on the quantities of fuel sold to final consumers in their territory.

IFP (Institut Français du Pétrole): From 11 January 1999 onwards, amounts are included in the TIPP. This tax funds the national petroleum research institute. The amount of IFP tax corresponds to approximately 4-6% of the TIPP.

Hydro-Carbon Fund (Fonds de Soutien des Hydrocarbures, or FSH): Applies to all oil products and natural gas for vehicles. The FSH is a special fund for public works.

Other Taxes: Government-regulated special allowances for each firm's emergency storage costs amount to approximately 1 EUR/tonne (5-6 FRF/tonne) and are included in the price column but not in taxes.

Prior to 4Q85, light fuel oil was subject to maximum price regulation. Prior to 1Q85, automotive diesel oil and gasoline were regulated within a price range.

Sources: Unless specified otherwise, Ministry of Industry, Direction des Hydrocarbures, following specifications of a European Commission decision of January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax (TIPP)

From	To	EUR/tonne	FRF/tonne
Prior to	31.01.90	20.10	131.82
01.02.90	06.01.91	20.55	134.82
07.01.91	06.01.92	20.84	136.70
07.01.92	14.01.93	21.16	138.83
15.01.93	14.04.93	21.43	140.54
15.04.93	11.07.93	21.45	140.70
12.07.93	10.01.95	23.14	151.80
11.01.95	10.01.96	23.51	154.20
11.01.96	10.01.97	23.92	156.90
11.01.97	10.01.98	24.38	159.90
11.01.98	10.01.99	24.67	161.80
11.01.99	31.12.99	24.88	163.20
11.01.00	20.07.02	18.57	121.80
21.07.02	now	18.50	

Prices shown refer to the ex-coastal refinery price. Rebates exist but the amounts are unknown.

Specifications

Quality:	Fuel Oil No. 2, Ordinaire HTS
Sulphur Content:	< 2%
Delivery Size:	< 24 000 t/year
NCV:	9 750 kcal/kg

Low Sulphur Fuel Oil

Excise Tax (TIPP)

From	To	EUR/tonne	FRF/tonne
01.12.93	10.01.95	17.23	113.0
11.01.95	10.01.96	17.49	114.7
11.01.96	10.01.97	17.79	116.7
11.01.97	10.01.98	18.13	118.9
11.01.98	10.01.99	18.34	120.3

From	To	EUR/ tonne	FRF/ tonne
11.01.99	31.12.99	18.49	121.3
01.01.00	20.07.02	18.57	121.8
21.07.02	now	18.50	

Specifications

Quality:	Fuel Oil No. 2, Ordinaire BTS
Sulphur Content:	< 2%
Delivery Size:	< 24 000 t/year
NCV:	9 750 kcal/kg

Heavy Fuel Oil for Electricity Generation

Prices are not available, but the amount paid is estimated to be mid-way between the industry price and the Rotterdam spot price.

Light Fuel Oil for Industry and Agriculture**General Tax (VAT)**

From	To	Rate of reimbursement
1978	1991	As an exception to general EC practice, VAT was not reimbursed for industrial use, and so is part of prices and taxes shown.
01.01.86	28.12.89	Agricultural use 50% reimbursed.
29.12.89	31.12.90	Inland waterway use 50% reimbursed.
01.01.91	31.12.91	Industry use 50% reimbursed.
01.01.92	now	All other uses 100% reimbursed.

Excise Tax (TIPP)

From	To	EUR/ kl	FRF/ kl
Prior to	31.01.90	See tax column	
31.01.90	31.01.90	61.83	405.6
01.02.90	06.01.91	63.34	415.5
07.01.91	06.01.92	64.33	422.0
07.01.92	14.01.93	65.32	428.5
15.01.93	14.04.93	66.62	437.0
15.04.93	11.07.93	67.00	439.5
12.07.93	10.01.94	72.60	476.2
11.01.94	10.01.95	74.23	486.9
11.01.95	10.01.96	75.46	495.0
11.01.96	10.01.97	76.86	504.2
11.01.97	10.01.98	78.45	514.6
11.01.98	10.01.99	79.44	521.1
11.01.99	10.01.00	80.14	525.7
11.01.00	30.09.00	80.54	528.3
01.10.00	20.03.01	31.07	
21.03.01	20.07.02	42.52	
21.07.02	now	56.60	

Prices refer to the maximum price for delivery size. From 1Q93 onwards, prices and taxes refer to the weekly average of the quarter. From 1Q90 to 4Q92, prices and taxes refer to the monthly average of the quarter.

Specifications

Quality:	Fuel Oil Domestique
Density:	0.845 t/kl
Delivery Size:	27 kl, Scale C4 (minimum)
NCV:	10 100 kcal/kg

Source: Ministry of Industry, Division des Hydrocarbures.

Light Fuel Oil for Households

General Tax (VAT): See general notes for France.

Excise Tax: See industry and agriculture.

Price shown corresponds to maximum price for deliveries in the Paris area.

Specifications

Quality:	Fuel Oil Domestique
Density:	0.845 t/kl
Delivery Size:	2 - 5 kl, Scale C1
NCV:	10 100 kcal/kg

Automotive Diesel Oil

General Tax (VAT): As an exception to general EC practice, VAT was only partially reimbursed to commercial, industrial and agricultural users.

From	To	%
01.01.82	31.12.82	10
01.01.83	31.12.83	20
01.01.84	31.12.84	30
01.01.85	30.04.85	40
01.05.85	31.12.87	50
01.01.88	30.12.88	60
01.01.89	30.12.89	70
01.01.90	30.12.90	80
01.01.91	30.12.91	90
01.01.92	now	100

Refunds of VAT on automotive diesel oil used in international transport are as follows:

From	To	%
01.01.85	31.12.85	50
01.01.86	31.12.86	65
01.01.87	31.12.87	85
01.01.88	now	100

Prices and taxes shown in the tables take account of these partial refunds.

Excise Tax (TIPP)

From	To	EUR/ litre	FRF/ litre
Prior to	31.01.90	See tax column	
01.02.90	06.01.91	0.246	1.6115
07.01.91	14.01.93	0.257	1.6857

From	To	EUR/ litre	FRF/ litre
15.01.93	14.04.93	0.265	1.7364
15.04.93	20.08.93	0.268	1.7571
21.08.93	30.11.93	0.311	2.0371
01.12.93	10.01.94	0.311	2.0408
11.01.94	10.01.96	0.329	2.1582
11.01.96	10.01.97	0.349	2.2922
11.01.97	10.01.98	0.358	2.351
11.01.98	10.01.99	0.371	2.4322
11.01.99	31.12.99	0.381	2.5022
01.01.00	30.09.00	0.392	2.571
01.10.00	20.03.01	0.367	2.4038
21.03.01	20.07.02	0.390	2.4690
21.07.02	now	0.392	

Specifications

Quality: Gazole
Density: 0.845 kg/litre

Gasoline

General Tax (VAT): See general notes for France.

Excise Tax (TIPP)

Premium Leaded

From	To	EUR/ litre	FRF/ litre
Prior to	31.01.90	see tax column	
31.01.90	31.01.90	0.466	3.0553
01.02.90	06.01.91	0.477	3.1311
07.01.91	20.03.91	0.485	3.1796
21.03.91	06.01.92	0.485	3.1806
07.01.92	14.01.93	0.492	3.2297
15.01.93	14.04.93	0.499	3.2748
15.04.93	11.07.93	0.502	3.2939
12.07.93	30.11.93	0.545	3.5739
01.12.93	10.01.94	0.545	3.5776
11.01.94	10.01.95	0.558	3.6592
11.01.95	10.01.96	0.589	3.8644
11.01.96	10.01.97	0.608	3.9894
11.01.97	10.01.98	0.619	4.0582
11.01.98	10.01.99	0.631	4.1394
11.01.99	31.12.99	0.637	4.1764

Leaded Replacement Gasoline (ARS)

From	To	EUR/ litre	FRF/ litre
01.01.00	30.09.00	0.640	4.1960
01.10.00	20.03.01	0.614	4.0287
21.03.01	20.07.02	0.624	4.0890
21.07.02	now	0.640	

Unleaded

From	To	EUR/ litre	FRF/ litre
Prior to	31.01.90	0.443	2.9078
01.02.90	06.01.91	0.454	2.9799
07.01.91	20.03.91	0.430	2.8174
21.03.91	06.01.92	0.430	2.8184
07.01.92	14.01.93	0.436	2.8621
15.01.93	14.04.93	0.443	2.9072
15.04.93	11.07.93	0.446	2.9267
12.07.93	30.11.93	0.489	3.2067
01.12.93	10.01.94	0.489	3.2104
11.01.94	10.01.95	0.507	3.3242
11.01.95	10.01.96	0.549	3.6016
11.01.96	10.01.97	0.568	3.7266
11.01.97	10.01.98	0.577	3.7854
11.01.98	31.12.99	0.589	3.8666
01.01.00	30.09.00	0.589	3.8650
01.10.00	20.03.01	0.564	3.6982
21.03.01	20.07.02	0.574	3.7640
21.07.02	now	0.589	

From February 1985 onwards, prices are deregulated and refer to the average for all of France. Prior to February 1985, prices were regulated within a price range and refer to the maximum price for the Paris area. Rebates up to 0.026 EUR/litre (0.17 FRF/litre) were possible.

Specifications

Grade and Octane: Premium Leaded 98 RON
Premium Unleaded 98 RON
Premium Unleaded 95 RON
Lead Content: 0.40 g/litre
Density: 0.755 kg/litre

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

NATURAL GAS

General Tax (VAT): From 1 November 1988 onwards, two rates of VAT apply, fixed charges and actual consumption. See VAT column for composite rate.

From	To	% Fixed- charges	% Con- sumption
01.02.60	31.10.88	18.6	18.6
01.11.88	31.12.94	5.5	18.6
01.01.95	31.07.95	18.6	18.6
01.08.95	31.12.98	20.6	20.6
01.01.99	31.03.00	5.5	20.6
01.04.00	now	5.5	19.6

Special Tax

TICGN (*Tax Intérieure de la Consommation de Gaz Naturel*): Applies to industrial consumers whose consumption is greater than 18 000 GJ/year. The tax is paid on the difference between the actual consumption and a threshold of 17 280 GJ/year.

From	To	EUR/ 10 ⁷ kcal	FRF/ 10 ⁷ kcal
01.01.86	31.12.86	16.84	110.45
01.01.87	31.12.87	10.46	68.59
01.01.88	01.06.89	9.93	65.11
01.07.89	31.12.89	10.10	66.27
01.01.90	31.12.90	10.28	67.43
01.01.91	31.12.91	10.46	68.59
01.01.92	14.01.93	10.63	69.76
15.01.93	14.04.93	11.49	75.34
15.04.93	24.06.93	11.57	75.92
25.06.93	10.01.94	12.51	82.08
11.01.94	10.01.95	12.78	83.82
11.01.95	10.01.96	12.99	85.22
11.01.96	10.01.97	13.22	86.73
11.01.97	10.01.98	13.49	88.47
11.01.98	10.01.99	13.65	89.52
11.01.99	10.01.00	13.77	90.33
11.01.00	10.01.01	13.84	90.80
11.01.01	now	13.84	90.80

Prices shown in the main table are annual average revenues per 10⁷ kcal received by the major French gas utility Gaz de France (GDF) from industry and households.

Specifications

GCV: 8 400 kcal/m³

Source: Gaz de France, *Statistiques de Gaz*, annual and correspondence with Gaz de France secretariat.

COAL**Steam Coal for Industry**

Price shown refers to the list price as fixed by Charbonnages de France for domestic steam coal from the Lorraine coal mines delivered by train loads to the Paris region (Versailles).

Specifications

Quality: Fines Lavées Flambants Gras A de Lorraine
Calibre: 0/6 - 0/20
NCV: 6 210 kcal/kg

Source: Observatoire de l'Energie, Economie et Matières Premières, Pegasus database.

Steam Coal for Electricity Generation

Average CIF import price for one tonne of steam coal. The large majority of coal used in French power stations is imported steam coal.

From 1Q88 onwards, prices refer to bituminous coal excluding coking coal. Prior to 1Q88, prices refer to other hard coal.

Specifications

Quality: Items 2701.12-90 and 2701.19-00 (1Q88 onwards)
Item 2701-18, excluding anthracite Item 2701-11 and dry steam coal Item 2701-14 (prior to 1Q88)
NCV: 6 210 kcal/kg

Source: Statistical office of the European Communities.

Steam Coal for Households

General Tax (VAT): See general notes for France.

Prices refer to deliveries greater than 1 tonne to the Paris region.

Specifications

Quality: Grains
Calibre: 6/10
NCV: 8 800 kcal/kg (1990 onwards)
6 210 kcal/kg (prior to 1990)

Source: Observatoire de l'Energie, Economie et Matières Premières, Pegasus database.

Coking Coal for Industry

From 1987 onwards, prices refer to the average CIF import price for one tonne of imported coking coal. From 1Q96 onwards, all coking coal consumed is imported. Prior to 1Q96, approximately 80% of coking coal consumed was imported.

Prior to 1987, prices refer to the wholesale price of domestic coking coal, ex-mine and loaded onto the train.

Specifications

Quality: Item 2701.12-10 (1Q88 onwards)
Item 2701-6 (prior to 1Q88)
Charbon à coke, Flambants Gras A (prior to 1987)
NCV: 7 285 kcal/kg

Sources: From 1987 onwards, Statistical office of the European Communities. Prior to 1987, Charbonnage de France.

ELECTRICITY

Prices shown in main table are annual average revenues per kWh of electricity received by Electricité de France (EDF) from industry and households plus an estimate of all tax components as far as they are not refundable.

From 2003 onwards, "compensation for the public electricity service" charge is levied on electricity consumption by households and industry:

Year	EUR/kWh
2003	0.0033
2004	0.0045

Electricity for Industry

General Tax (VAT): See general notes for France. From 1 January 1999 onwards, recoverable VAT on standing charges is reduced to 5.5%.

Special Taxes: Municipal taxes (0-8%) and departmental taxes (0-4%) are levied on the ex-tax price (consumption of 0-250 kVA) but are not shown in the excise column. Their composite national rate is now approximately 11%.

They are levied on the ex-tax price:

Tariff Category	%
Blue (3-36 kVA)	80
Yellow (36 – 250 kVA) and Green (< 10 000 kVA)	30

Price represents all industry sectors except transport, telecommunications, services and agriculture.

Sources: From 2000 onwards, Observatoire de l'Énergie. Prior to 2000, Electricité de France, Direction Marketing, Service PRIME.

Electricity for Households

General Tax (VAT): From 1 November 1988 onwards, two rates of VAT are applied: one rate to fixed charges (which account for about 30% of the bill) and another rate to the actual consumption.

From	To	% Fixed-charges	% Consumption
01.02.60	31.10.88	18.6	18.6
01.11.88	31.12.94	5.5	18.6
01.01.95	31.07.95	18.6	18.6
01.08.95	31.12.98	20.6	20.6
01.01.99	31.03.00	5.5	20.6
01.04.00	now	5.5	19.6

Since 1 July 2006, the VAT rate of 5.5% for fixed charges applies to the after-tax fixed charge (i.e. applicable to both the ex-tax price and the special taxes). Before July 2006, the VAT rate of 5.5% applied only to the ex-tax fixed charge. The VAT on consumption continues to apply to the after-tax price, as has been the case since 1 August 1991.

Special Taxes: Municipal taxes (0-8%) and departmental taxes (0-4%) are levied on the ex-tax price. Since 1Q2004, their composite national rate is approximately 11%. Prior to this, the rate was approximately 8.5%.

Sources: From 2000 onwards, Observatoire de l'Énergie. Prior to 2000, Electricité de France, Direction Marketing.

ENERGY INDICES

Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to three-month averages. Prior to 1Q93, quarterly indices refer to the second month of each quarter.

Source: National Statistics and Economic Studies Institute (INSEE) *Bulletin Mensuel de Statistique*, monthly.

Oil Products

Wholesale: Produits pétroliers.

Retail: All oil products (tous produit pétroliers).

Electricity

Wholesale: High voltage electricity (high and extra-high voltage).

Retail: Electricity (électricité).

Natural Gas

Wholesale: Distribution by Gaz de France, excluding sales to households.

Retail: City gas (gaz de ville).

Coal Products

Wholesale: Total coal products.

Retail: Solid fuels (combustibles solides).

GERMANY

GENERAL NOTES

From 1Q93 onwards, prices refer to the monthly averages of the quarter. From 1Q85 to 4Q92, prices refer to the second month of the quarter. Prior to 1Q85, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.78	30.06.79	12
01.07.79	30.06.83	13
01.07.83	31.12.92	14
01.01.93	31.03.98	15
01.04.98	31.12.06	16
01.01.07	now	19

Special Tax (Eco Tax): From 1 April 1999 onwards, an ecology tax was introduced. See individual products for rates and schedules.

From 1Q91 onwards, the prices and taxes presented include both eastern and western Germany.

OIL PRODUCTS

High Sulphur Fuel Oil

Excise Tax (Mineralölsteuer)

From	To	EUR/tonne	DEM/tonne
Prior to	31.12.88	7.67	15
01.01.89	31.12.00	15.34	30
01.01.01	31.12.02	17.89	35
01.01.03	now	25.00	

Special Taxes

Contribution to Emergency Storage Fund (EBV)

From	To	EUR/tonne	DEM/tonne
01.12.78	31.03.81	1.79	3.5
01.04.81	31.08.81	2.91	5.7
01.09.81	31.03.83	3.37	6.6
01.04.83	31.12.84	3.02	5.9
01.01.85	31.03.88	2.66	5.2

From	To	EUR/tonne	DEM/tonne
01.04.88	31.03.93	3.83	7.5
01.04.93	31.03.96	3.73	7.3
01.04.96	31.03.01	4.04	7.9
01.04.01	31.03.03	4.29	8.4
01.04.03	31.03.07	4.10	
01.04.07	now	3.70	

Specifications

Quality: Heizöl schwer
Density: 0.99 t/kl
NCV: 9 800 kcal/kg

Sulphur Content:

From	To	%
Prior to	31.12.85	0.5 - 2.8
01.01.86	31.12.90	1 - 2
01.01.91	now	1

For industry, prices shown refer to annual consumption of 201-2 000 tonnes and are averages of all German refiners (approximately 60-80% of total consumption). Prices include transport costs within 30 km, equivalent to the perimeter around refineries and storage facilities. Approximately 80% of all volumes sold are consumed within this area.

For electricity generation, average transport cost is included in the price shown and amounts to 7.67 EUR/tonne (15 DEM/tonne) for a 650-tonne barge.

Sources: For industry, Bundesministerium für Wirtschaft und Technologie, Berlin, following specifications of EC decision of 26 January 1977. National aggregates are computed as (currently) weighted averages of individual refinery reports. For electricity generation prices (excluding transport cost), Ministry of Economics and Technology, Berlin.

Light Fuel Oil

General Tax (VAT): Applies to households. See general notes for Germany.

Excise Tax (Mineralölsteuer): As shown in excise tax column for industry.

Special Taxes

Contribution to Emergency Storage Fund: Contained in price only.

From	To	EUR/kl	DEM/tonne
01.12.78	31.03.81	32.57	5.54
01.04.81	31.08.81	42.59	7.23
01.09.81	31.03.83	54.79	9.30
01.04.83	31.12.84	47.08	8.00
01.01.85	31.03.88	41.09	6.98

From	To	EUR/ kl	DEM/ tonne
01.04.88	31.03.93	50.87	8.64
01.04.93	31.03.96	45.93	7.81
01.04.96	31.03.01	52.26	8.88
01.04.01	31.03.03	4.50	
01.04.03	31.03.07	3.90	
01.04.07	now	3.50	

Eco Tax (standard household rate)

From	To	EUR/ kl	DEM/ tonne
01.04.99	now	20.45	1.78

Eco Tax (manufacturing industry rate)

From	To	EUR/ kl	DEM/ tonne
01.04.99	now	4.09	0.36

Price shown is the average of all German refiners, which amounts to approximately 60-80% of total consumption.

Specifications

Quality:	Heizöl extraleicht
Density:	0.87 t/kl
Delivery Size:	4 - 5 kl
NCV:	10 200 kcal/kg

Source: Bundesministerium für Wirtschaft und Technologie, Berlin, following specifications of EC decision dated 26 January 1977.

Automotive Diesel

General Tax (VAT): Applies to households. See general notes for Germany.

Excise Tax (Mineralölsteuer): As shown in excise tax column.

Special Taxes

Contribution to Emergency Storage Fund: Amounts are included in the prices but not the taxes shown.

From	To	EUR/ litre	DEM/ litre
Prior to	31.12.84	0.0034	0.0067
01.01.85	31.03.88	0.0030	0.0059
01.04.88	31.03.93	0.0037	0.0073
01.04.93	31.03.96	0.0034	0.0066
01.04.96	31.03.01	0.0038	0.0075
01.04.01	31.03.03	0.0045	0.0088
01.04.03	31.03.07	0.0039	
01.04.07	now	0.0035	

Eco Tax

From	To	EUR/ litre	DEM/ litre
01.04.99	31.12.99	0.0307	0.600
01.01.00	31.12.00	0.0614	0.120
01.01.01	31.12.01	0.0921	0.180
01.01.02	31.12.02	0.1328	
01.01.03	now	0.1535	

Price shown is the average pump price for automotive diesel marketed by all German refiners.

Specifications

Density: 0.82 - 0.845 t/kl

Source: Bundesministerium für Wirtschaft und Technologie, Berlin, following specifications of EC decision dated 26 January 1977.

Gasoline

General Tax (VAT): See general notes for Germany.

Excise Tax (Mineralölsteuer)

Premium Leaded

From	To	EUR/ litre	DEM/ litre
01.07.73	31.03.81	0.225	0.44
01.04.81	31.03.85	0.261	0.51
01.04.85	31.12.85	0.271	0.53
01.01.86	31.03.87	0.271	0.53
01.04.87	31.03.88	0.271	0.53
01.04.88	31.12.88	0.271	0.53
01.01.89	31.12.90	0.332	0.65
01.01.91	30.06.91	0.343	0.67
01.07.91	31.12.93	0.470	0.92
01.01.94	31.12.96	0.552	1.08
01.01.97	now	No longer consumed	

Premium and Regular Unleaded

From	To	EUR/ litre	DEM/ litre
01.01.86	31.03.87	0.235	0.46
01.04.87	31.03.88	0.240	0.47
01.04.88	31.12.88	0.245	0.48
01.01.89	31.12.90	0.291	0.57
01.01.91	30.06.91	0.307	0.60
01.07.91	31.12.93	0.419	0.82
01.01.94	31.03.99	0.501	0.98
01.04.99	31.12.99	0.532	1.04
01.01.00	31.12.00	0.562	1.10
01.01.01	31.12.01	0.593	1.16
01.01.02	31.12.02	0.6238	
01.01.03	now	0.6545	

Contribution to Emergency Storage Fund: Amounts are included in the prices but not the taxes shown.

From	To	EUR/ litre	DEM/ litre
Prior to	31.03.81	0.0027	0.0053
01.04.81	31.08.81	0.0029	0.0056
01.09.81	31.03.83	0.0036	0.0071
01.04.83	31.12.84	0.0033	0.0064
01.01.85	31.03.88	0.0029	0.0056
01.04.88	31.03.96	0.0037	0.0072
01.04.96	31.03.01	0.0046	0.0089
01.04.01	31.03.03	0.0051	0.0099
01.04.03	31.03.07	0.0046	
01.04.07	now	0.0042	

Eco Tax

From	To	EUR/ litre	DEM/ litre
01.01.03	now	0.153	

Price shown is an average for premium gasoline marketed by all German refiners and is the weighted average of full-service and self-service pump prices.

Sale of leaded regular is forbidden as of 1 February 1987 and leaded premium as of 1 January 1997.

Specifications

Premium Leaded

Octane: 98 RON, 88 MON
Lead Content: 0.15 g/l
Density (at 15°C): 0.730 - 0.780 t/kl

Premium Unleaded

Octane: 95 RON, 85 MON
Lead Content: 0.15 g/l
Density (at 15°C): 0.735 - 0.785 t/kl

Regular Unleaded

Octane: 91 RON, 82.5 MON
Lead Content: 0.15 g/l
Density (at 15°C): 0.720 - 0.770 t/kl

Source: Bundesministerium für Wirtschaft und Technologie, Berlin, as per EC decision of 26 January 1977.

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

Source: Prices published in the Weekly Oil Bulletin, DG Energy and Transport, European Commission.

NATURAL GAS

General Tax (VAT): Applies to households. See general notes for Germany.

Special Taxes

From	To	EUR/ 10 ⁷ kcal	DEM/ 10 ⁷ kcal	DEM/ 100 kWh
01.01.89	30.06.91	18.46	36.1	0.26
01.07.91	31.03.99	21.42	41.9	0.36
01.04.99	now	25.21	49.3	0.68

Eco Tax (standard household rate)

From	To	EUR/ 10 ⁷ kcal	DEM/ 10 ⁷ kcal
01.04.99	now	19.03	37.22

Eco Tax (manufacturing industry rate)

From	To	EUR/ 10 ⁷ kcal	DEM/ 10 ⁷ kcal
01.04.99	now	3.81	7.45

Prices shown are annual average revenues per 10⁷ kcal received by gas utilities from industry, public electric power stations and households.

Specifications

GCV: 8 400 kcal (97 692 kWh/m³)

Sources: Federal Ministry of Economics and Labour; Annual Report on the Gas Industry. Data published: One Monthly Issue of the Journal *Die Gas-und Wasserwirtschaft*.

COAL

Steam Coal for Industry

Price shown is ex-mine. Freight costs are estimated to be 4 - 36 EUR/tonne (7 - 70 DEM/tonne). The amount of traders profit is unknown.

Specifications

Quality: Grosskohle (hard coal supplied by Ruhrkohle AG)
Volatile Matter: 20 - 30%
Ash Content: 3 - 5%
Moisture Content: 3 - 6%
Sulphur Content: 1.0%
GCV: 7 000 kcal/kg.

Source: Federal Ministry of Economics and Labour, Berlin; questionnaire survey.

Steam Coal for Electricity Generation

Only 60% of total coal input to power stations is steam coal; the remainder being lignite. Most of the lignite comes from mines owned by utilities and does not have a market price. From 1996 onwards, the prices refer to

the prices for imported steam coal. Prior to 1996, prices refer to the weighted average calculated by the IEA using the steam coal domestic and import prices.

Domestic Steam Coal Delivered to Utilities

Year	EUR/ tonne	DEM/ tonne	Year	EUR/ tonne	DEM/ tonne
1979	94.85	185.5	1988	144.30	282.23
1980	107.31	209.9	1989	146.62	286.76
1981	121.69	238.0	1990	148.33	290.10
1982	130.64	255.5	1991	149.21	291.83
1983	134.47	263.0	1992	157.48	308.00
1984	140.09	274.0	1993	158.25	309.50
1985	140.61	275.0	1994	159.01	311.00
1986	140.61	275.0	1995	159.01	311.00
1987	142.14	278.0			

Imported Steam Coal Delivered to Utilities: Prices shown are the average price/tce (tonne of coal equivalent) and include inland transport costs of approximately 5.11 EUR/t SKE (10 DEM/t SKE).

Year	EUR/ tonne	DEM/ tonne	Year	EUR/ tonne	DEM/ tonne
1979	62.63	122.50	1988	55.73	109.00
1980	68.64	134.25	1989	62.77	122.76
1981	96.89	189.50	1990	62.73	122.69
1982	99.06	193.75	1991	59.09	115.57
1983	87.43	171.00	1992	56.43	110.36
1984	83.21	162.75	1993	50.60	98.96
1985	95.48	186.75	1994	49.72	97.25
1986	75.80	148.25	1995	52.73	103.13
1987	59.31	116.00			

The price shown above (valued 1995) is the ex-mine price for utilities after a rebate of 2.05 EUR/tonne (4 DEM/tonne) for large customers, and include an estimated average transport cost of:

From	To	EUR/ tonne	DEM/ tonne
1978	1979	7.67	15
1979	1980	8.18	16
1980	1981	8.69	17
1981	1983	9.20	18
1984	1987	10.23	20
1988	1995	13.80	27

Specifications (domestic coal)

Quality:	Fett Feinkohle (hard coal from Ruhrkohle AG)
Volatile Matter:	20 - 30%
Ash Content:	6 - 8% (washed) 11 - 14% (unwashed)
Moisture Content:	8 - 10% (washed) < 4% (unwashed)
Sulphur Content:	0.95%
NCV:	6 914 kcal/kg

Specifications (imported coal)

NCV: 7 000 kcal/kg

Sources: Federal Ministry of Economics and Labour, Berlin; questionnaire survey. Data Published: Prices for imported steam coal (CIF) plus unloading costs: *Daten zur Entwicklung der Energiewirtschaft in der Bundesrepublik Deutschland*, Ministry of Economics and Labour.

Steam Coal for Households

General Tax (VAT): See general notes for Germany.

Specifications

From	To	Quality
1Q78	4Q78	Spezialbrand/Fettnuss 3
1Q79	1Q82	Anthrazit Nuss 4
2Q82	4Q85	Anthrazit Nuss 3; delivery size 500 kg
1Q86	4Q91	Anthrazit Nuss 5/6 (domestic origin); delivery size 3 000 kg
1Q92	now	Zeichenbrechkoks 3 (domestic origin); delivery size 3 000 kg; delivered price (frei keller)

Source: Federal Statistical Office Wiesbaden, *Preise und Preisindizes für die Lebenshaltung*, Fachserie 17, Reihe 7 (monthly).

Coking Coal for Steel Industry

Specifications

Quality:	Kokskohle, from Ruhrkohle AG
Volatile Matter:	26.5%
Ash Content:	< 8%
Moisture Content:	< 10%
Sulphur Content:	0.95%
GCV:	6 950 kcal/kg

Price shown is ex-mine and reflects special contracts with the steel industry. The coking coal price for other industrial sectors is approximately 20% greater.

ELECTRICITY

General Tax (VAT): Applies to households only. See general notes for Germany.

Special Taxes

Financial Support of German Coal Industry (Ausgleichsabgabe): Beginning 1Q96, this tax has not been levied. Prior to 4Q95, amounts varied according to the

region. Below is the federal average. Note that this tax was applied to the ex-tax price, and, in the case of households, the VAT was then levied on the sum.

From	To	%
01.04.76	31.12.78	4.50
01.01.79	30.09.79	6.20
01.10.79	31.12.81	4.50
01.01.82	31.12.82	4.20
01.01.83	31.12.85	3.50
01.01.86	31.05.86	3.30
01.06.86	31.12.86	4.50
01.01.87	31.05.87	4.50
01.06.87	31.12.87	7.50
01.01.88	31.12.88	7.25
01.01.89	31.12.89	8.50
01.01.90	31.12.90	8.25
01.01.91	31.12.91	8.00
01.01.92	31.12.92	7.75
01.01.93	31.12.93	7.50
01.01.94	31.12.95	8.50
01.01.96	now	0.00

Eco Tax: Installed on 1 April 1999. Amounts are not collected separately but are included in the prices shown. Therefore, it cannot be shown to what extent suppliers are handing over this levy to customers. For industry customers there are a number of different tax percentages applicable (c.f. *Energy Policies of IEA Countries: Germany 2002 Review*, section regarding taxation).

Eco Tax (standard household rate)

From	To	EUR/ kWh	DEM/ kWh
01.04.99	31.12.99	0.0102	0.0199
01.01.00	31.12.00	0.0128	0.0250
01.01.01	31.12.01	0.0154	0.0301
01.01.02	31.12.02	0.0179	
01.01.03	now	0.0205	

Eco Tax: Below is an illustration of the typical rates for manufacturing industry, applicable with an annual consumption of more than 50 MWh, respectively 25 MWh since 2003.

From	To	EUR/ kWh	DEM/ kWh
01.04.99	31.12.99	0.0020	0.0039
01.01.00	31.12.00	0.0026	0.0051
01.01.01	31.12.01	0.0031	0.0061

From	To	EUR/ kWh	DEM/ kWh
01.01.02	31.12.02	0.0036	
01.01.03	now	0.0123	

Prices shown are average revenues/kWh received by German utilities from all industrial sectors and households.

Sources: Federal Statistical Office and Federal Ministry of Economics and Labour.

ENERGY PRICE INDICES

Annual indices are 12-month averages. From 4Q92 onwards, indices refer to three-month average. Prior to 4Q92, quarterly indices refer to the second month of each quarter.

Sources: Wholesale: Federal Statistical Office, Preise und Preisindizes für Gewerbliche Produkte. Retail: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: Weighted average of LFO (Heizöl extra leicht), HFO, and automotive diesel.

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Wholesale: Electricity for special contract clients.

Retail: HICP, Electricity (cp0451).

Natural Gas

Wholesale: Natural gas for industry.

Retail: HICP, Gas (cp0452).

Coal Products

Wholesale: Steam coal and steam coal briquettes.

Retail: HICP, Solid fuels (cp0454).

GREECE

GENERAL NOTES

Prices refer to the second month of each quarter. See individual products for details.

General Tax (VAT): From January 1987 onwards, VAT applies to fuels used for household consumption. VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

OIL PRODUCTS

From 2 March 1993 onwards, ex-refinery prices are set by each refinery, public or private, based on international prices. Selling prices are fixed by the marketers and dealers. Prior to 2 March 1993, oil products were subject to maximum ex-refinery prices plus a fixed amount for distribution costs.

From 1 August 1992 onwards, the ceiling price was abolished and the Ministry of Economic Affairs determines taxes (law 2008/92 FEK 16A, 11.2.92). From 3 March 1992 to 31 July 1992, petroleum product prices were liberalised (Presidential Decree 76/92-FEK 35A 3.3.92). According to a joint decision of the General Secretaries of the Ministry of Trade and the Ministry of Industry-Energy-Technology, the Ministry of Trade would announce weekly ceiling prices for end-use consumption for all petroleum products except fuel oil, which was totally liberalised.

Source: Ministry of Development, following specifications of the EC decision dated 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax

From	To	EUR/tonne	GRD/tonne
01.01.78	03.03.92	see excise column	
04.03.92	31.12.96	35.22	12 000
01.01.97	31.12.01	38.15	13 000
01.01.02	now	19	

Specifications

Quality: Fuel Oil No. 3
Delivery Size: < 24 000 t/year
Sulphur Content:

From	To	%
1978	1994	4
1994	1995	3.5
1996	now	3.2

Light Fuel Oil for Industry

Excise Tax: See excise tax column.

Specifications

Delivery Size: 2 - 5 kl Athens area
Density: N₁: 0.97 t/kl (assumed)
N₃: 0.98 t/kl (assumed)

Light Fuel Oil for Households

General Tax (VAT)

From	To	%
01.01.87	27.04.90	6
28.04.90	31.07.92	8
01.08.92	now	18

Excise Tax: See excise tax column.

Specifications

Delivery Size: 2 - 5 litres
Assumed Density: N: 0.97 t/kl

Automotive Diesel Oil

Excise Tax

From	To	EUR/litre	GRD/litre
Prior to	01.01.92	see excise column*	
01.01.92	31.12.94	0.200	68.0
01.01.95	31.12.95	0.211	72.0
01.01.96	17.04.96	0.226	77.0
18.04.96	05.03.97	0.222	75.5
06.03.97	31.12.98	0.226	77.0
01.01.99	31.12.01	0.244	83.0
01.01.02	now	0.245	

*Starting in 1Q92, fixed tax as shown in tax column, minus the VAT rate applied to the ex-tax price.

General Tax (VAT): VAT amounts are not included in the total prices or taxes for commercial purposes as they are reimbursed. See general note for Greece.

From	To	%
01.01.87	27.04.90	6
28.04.90	31.07.92	8
01.08.92	now	18

Gasoline

General Tax (VAT)

From	To	%
01.01.87	31.07.92	36
01.08.92	now	18

Excise Tax

Leaded/Leaded Replacement			
From	To	EUR/ litre	GRD/ litre
Prior to	05.03.92	see tax column	
05.03.92	31.07.92	0.180	61.5
01.08.92	31.12.95	0.352	120.0
01.01.96	17.04.96	0.373	127.0
18.04.96	05.03.97	0.361	123.0
06.03.97	30.07.97	0.373	127.0
31.07.97	23.09.98	0.361	123.0
24.09.98	04.08.99	0.349	119.0
05.08.99	06.11.00	0.335	114.0
07.11.00	31.12.00	0.326	111.0
01.01.01	31.12.01	0.336	114.5
01.01.02	now	0.337	

Unleaded			
From	To	EUR/ litre	GRD/ litre
Prior to	01.01.96	see tax column	
01.01.96	17.04.96	0.326	111
18.04.96	05.03.97	0.314	107
06.03.97	30.07.97	0.326	111
31.07.97	23.09.98	0.314	107
24.09.98	04.08.99	0.302	103
05.08.99	06.11.00	0.288	98
07.11.00	now	0.296	101

As of 1Q02 leaded gasoline has been replaced by leaded replacement gasoline.

Specifications

Premium Leaded 96 RON

Lead Content: 0.15 g/litre

Premium Unleaded 95 RON

Lead Content: 0.005 g/litre

Excise Tax: The excise tax will not be charged until year 2010 (Law 2364/95, article 7).

Prices refer to average prices for each quarter.

Specifications

GCV: The energy content varies according to the supply mix of each year. Typical ranges are:

From	To	kcal/m ³
1996	1999	9 500 – 9 550
2000	2003	9 600 – 9 700

ELECTRICITY

General Tax (VAT)

From	To	%
01.01.87	31.12.87	18
01.01.88	30.04.90	16
01.05.90	31.12.98	18
01.01.99	now	8

Special Taxes: Apply to households.

Turnover Tax

From	To	%
01.01.61	31.12.65	5
01.01.66	28.02.75	6
01.03.75	31.12.82	8
01.01.83	31.12.86	10

Stamp Duties

From	To	Duty
01.01.61	31.12.81	5 GRD per bimonthly bill (estimated as 1% by the IEA)
01.01.82	31.12.86	1.2% per bill

Prices refer to annual average receipts per kWh from all Greek utilities for sales to industry and households.

Source: Ministry of Development, annual survey among utilities.

NATURAL GAS

General Tax (VAT): From 3Q04 onwards, VAT on standing charges and on commodity charges is 8%. From 1 January 2003 to 2004, VAT on standing charges was 18% and VAT on commodity charges was 8%. From 1 January 1999 to 31 December 2002, VAT was 8%.

ENERGY PRICE INDICES

Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to the three-month average of the quarter. Prior to 1Q93, indices refer to the second month of each quarter.

Sources: Wholesale (oil products and coal) and retail (oil products): Correspondence with the National Statistical Service of Greece.

Wholesale and retail (natural gas): Ministry of Development.

Retail (electricity and coal only): Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: Refers to weighted average of producer price index for heavy fuel oil and diesel oil.

Retail: Refers to weighted average of consumer price index for heating oil and gasoline.

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Wholesale: Natural gas

Retail: Natural gas

Coal Products

Wholesale: Producer price index for lignite.

Retail: HICP, Solid fuels (cp0454).

HUNGARY

GENERAL NOTES

General Tax (VAT): Applies to household prices (unless specified otherwise). VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.93	31.07.93	6
01.08.93	31.12.94	10
01.01.95	31.12.03	12
01.01.04	31.08.06	15
01.09.06	Now	20

Sources

From	To	Source
01.01.78	31.12.92	State Authority for Energy Management and Safety
01.01.93	30.09.94	Ministry of Industry and Trade, Department of Energy Prices
01.10.94	now	Hungarian Energy Office

OIL PRODUCTS

High Sulphur Fuel Oil

Specifications

Quality:	Medium heavy
NCV:	9 500 kcal/kg

Low Sulphur Fuel Oil

Specifications

Sulphur Content:	<1.0%
------------------	-------

Heavy Fuel Oil for Electricity Generation

Specifications

Quality:	Very heavy
NCV:	9 700 kcal/kg

Light Fuel Oil for Households

General Tax (VAT): See general notes for Hungary.

From 2Q95 onwards, this series was discontinued.

Automotive Diesel

General Tax (VAT): Applies to households.

From	To	%
01.01.93	30.09.05	25
01.10.05	now	20

Specifications

Density:	0.83 kg/l
NCV:	10 221 kcal/kg

Gasoline

General Tax (VAT)

From	To	%
01.01.93	30.09.05	25
01.10.05	now	20

Specifications

Grade and Octane:	Unleaded Premium 98 RON Unleaded Premium 95 RON Unleaded Regular 91 RON
Lead Content:	5 mg/l (maximum)
Density:	0.72 - 0.75 kg/l

From 1 April 1996 onwards, leaded regular 92 RON is not sold. Since 1 May 2004, Unleaded Regular 91 RON is no longer consumed. Since 1 May 2007, Unleaded Regular 98 RON is no longer sold by the biggest vendors in Hungary, although some petrol stations continue to do so; the prices are therefore no longer available. From 1 July 2007 the biggest vendors sell Unleaded Premium 95 RON with a minimum of 4.4% biofuel content.

NATURAL GAS

Specifications

GCV:	8 500 kcal/m ³
------	---------------------------

Industry

From 1Q00 onwards, prices are an average of common industry and industrial consumers above 500 m³/h bound capacity.

Households

Note that from 1 January 2007 onwards, a natural gas subsidy was no longer automatically granted to residential customers, and it is no longer possible to estimate the full effect of the subsidy system. Due to this, there appears to be an abnormal increase of the natural gas price for households between 4th quarter 2006 and

1st quarter 2007, when in fact there was no change in the actual price.

General Tax (VAT): See general notes for Hungary.

COAL

General Tax (VAT): Applies to households. See general notes for Hungary.

Specifications

NCV:

Year	kcal/kg	Year	kcal/kg
1986	3910	1992	4511
1987	3904	1993-1996	..
1988	4103	1997	4665
1989	3956	1998-2002	4700
1990	4060	2003	4912
1991	4403		

Source: Energy Information Agency.

Steam Coal for Electricity Generation

Heat power plants have their own mines, from which they purchase their coal. Prices are confidential.

Specifications

NCV:

Year	kcal/kg	Year	kcal/kg
1986	2378	1993-1998	..
1987	2378	1999-2002	2022
1988	2425	2003	2034
1989	2254	2004	2051
1990	2078	2005	2003
1991	2142	2006	2003
1992	2043		

Steam Coal for Households

Specifications

Quality: Brown coal (1992 onwards)

NCV:

Year	kcal/kg	Year	kcal/kg
1986	3910	1993-1997	..
1987	3904	1998	4536
1988	4103	1999-2002	4550
1989	3956	2003	4559
1990	4060	2004	4466
1991	4403	2005	4466
1992	2650	2006	4341

ELECTRICITY

General Tax (VAT): Applies to households.

From	To	%
01.08.93	31.12.94	10
01.01.95	31.12.03	12
01.01.04	30.09.05	25
01.10.05	now	20

ENERGY PRICE INDICES

For the calculation of the yearly and quarterly average retail prices, prices of industry, electricity and household consumers by energy bearer were used as a basis. These prices are already average prices, as they contain the prices referring to the tariffs for the individual consumer group weighted by consumption. There are different tariff types in one consumer group, e.g. the average electricity price of industrial consumers contains the average prices of tariffs with demand charge, general tariffs and railways.

The indices are calculated from weekly surveyed data. Annual indices are 52-week averages. Quarterly indices are averages of all weeks in the quarter.

Sources: Energy Centre Hungary for oil and coal. Hungarian Energy Office for electricity and natural gas.

Oil Products

Retail: from 3Q2007 onwards, a weighted average of premium unleaded 95 RON, automotive diesel and low sulphur fuel oil. Prior to 3Q2007, a weighted average of premium unleaded 95 RON, premium unleaded 98 RON, automotive diesel and low sulphur fuel oil.

Coal Products

Retail: Steam coal.

IRELAND

GENERAL NOTES

From 4Q85 onwards, prices refer to the second month of each quarter. Prior to 4Q85, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): VAT is not included in the prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.05.83	28.02.85	5
01.03.85	28.02.91	10
01.03.91	31.12.02	12.5
01.01.03	now	13.5

OIL PRODUCTS

Special Tax

National Oil Reserves Levy: In effect from 3Q95 onwards. Amounts are included in the excise column and average 0.476 EUR/litre (0.375 IEP/litre).

Sources: From 1Q86 onwards, Energy Ministry submissions to the European Commission, net of rebates. Prior to 1Q86, Department of Industry, Trade, Commerce and Tourism, Dublin, list prices transmitted to the EC Commission following specifications of the EC Decision of 26 January 1977.

High Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Rebates have been taken into account.

Specifications

Density:	0.97 t/kl
Sulphur Content:	1 - 3.5%
Delivery Size:	25-tonne lots
NCV:	9 480 kcal/kg

Light Fuel Oil

General Tax (VAT): Applies to households. See general notes for Ireland.

Excise Tax: As shown in excise tax column.

For industry, from 1Q83 onwards, the average rebate for medium-sized industry is taken into account. Prior to 1Q83, prices shown are maximum prices.

For households, from 2Q84 onwards, prices refer to average prices. Prior to 2Q84, prices refer to maximum prices. Rebates rarely occur.

Specifications

Quality:	Heating gasoil
Density:	0.838 t/kl
Viscosity:	32 seconds
Delivery Size:	≥ 5 kl (industry)
NCV:	10 170 kcal/kg

Automotive Diesel

General Tax (VAT): Applies to non-commercial use. See rates for gasoline.

Excise Tax: As shown in excise tax column.

From July 2001 onwards, there is no obligation to purchase 20% of automotive diesel from the domestic refinery.

Effective	Pricing system
Prior to 01.09.85	Major oil products subject to maximum prices.
17.07.87	Price control by statutory order of the Minister of Industry and Commerce
08.10.87	Statutory order revoked. Oil companies agreed to maintain the lower prices set by the Minister and operate a monthly price review.
15.04.89	Price control re-introduced.
01.10.91	Price control abolished.

Gasoline

General Tax (VAT)

From	To	%
01.01.78	31.08.81	10
01.09.81	30.04.82	15
01.05.82	28.02.83	18
01.03.83	28.02.86	23
01.03.86	28.02.90	25
01.03.90	28.02.91	23
01.03.91	31.12.00	21
01.01.01	28.02.02	20
01.03.02	now	21

Excise Tax

Premium Leaded / Lead Replacement

From	To	EUR/ litre	IEP/ litre
Prior to	01.04.85	0.302	0.238
01.04.85	07.01.86	0.325	0.256

From	To	EUR/ litre	IEP/ litre
08.01.86	29.01.86	0.334	0.263
30.01.86	20.01.87	0.348	0.274
21.01.87	27.01.88	0.357	0.281
28.01.88	25.01.89	0.375	0.295
26.01.89	31.04.92	0.386	0.304
01.05.92	25.01.94	0.364	0.287
26.01.94	31.05.95	0.380	0.299
01.06.95	23.01.96	0.385	0.303
24.01.96	21.01.97	0.395	0.311
22.01.97	02.12.97	0.427	0.336
03.12.97	06.12.00	0.458	0.361

Premium Unleaded 98 RON

From	To	EUR/ litre	IEP/ litre
15.09.89	31.01.90	0.364	0.2867
01.02.90	31.04.92	0.353	0.2779
01.05.92	25.01.94	0.332	0.2614
26.01.94	31.05.95	0.348	0.2737
01.06.95	23.01.96	0.352	0.2776
24.01.96	21.01.97	0.363	0.2858
22.01.97	06.12.00	0.454	0.3572
07.12.00	now	not available	

Premium Unleaded 95 RON

From	To	EUR/ litre	IEP/ litre
15.09.89	31.01.90	0.364	0.2867
01.02.90	31.04.92	0.353	0.2779
01.05.92	25.01.94	0.332	0.2614
26.01.94	31.05.95	0.348	0.2737
01.06.95	23.01.96	0.352	0.2776
24.01.96	21.01.97	0.363	0.2858
22.01.97	06.12.00	0.374	0.2945
07.12.00	05.12.01	0.349	0.2745
06.12.01	03.12.03	0.401	
04.12.03	now	0.443	

Prices shown refer to pump prices. From July 2001 onwards, there is no obligation to purchase 20% of gasoline from the domestic refinery.

Effective	Pricing system
Prior to 01.09.85	Major oil products subject to maximum prices.
17.07.87	Price control by statutory order of the Minister of Industry and Commerce
08.10.87	Statutory order revoked. Oil companies agreed to maintain the lower prices set by the Minister and operate a monthly price review.
15.04.89	Price control re-introduced for premium.
06.02.90	Wholesale prices for regular unleaded controlled.
08.02.90	Retail prices for regular unleaded controlled.
01.10.91	Price control abolished.

Specifications

Grade and Octane: Premium Unleaded 98 RON
Premium Unleaded 95 RON
Leaded Replacement (1Q00 onwards)
Premium Leaded 97 RON (prior to 1Q00)

NATURAL GAS

From 2Q83 onwards, prices refer to the Dublin area. Prior to 2Q83, prices refer to Cork city, the only area with natural gas at the time.

For industry, prices refer to average revenues per 10⁷ kcal for all industrial and commercial sales.

For electricity generation, prices refer to the average expenditure of electrical power plants on gas purchased for public supply.

For households, prices refer to the average revenues per 10⁷ kcal, including standing charges.

Specifications

GCV: 9 444 kcal/cm³

Sources

From	To	Source
Prior to	1Q86	Department of Industry, Trade, Commerce and Tourism
1Q86	4Q92	Department of Energy
1Q93	2Q02	Department of Public Enterprise
3Q02	4Q02	Department of Communications, Marine and Natural Resources
1Q03	now	Sustainable Energy Ireland

COAL**Sources**

From	To	Source
Prior to	1Q86	Department of Industry, Trade, Commerce and Tourism
1Q86	4Q92	Department of Energy
1Q93	2Q02	Department of Public Enterprise
3Q02	4Q02	Department of Communications, Marine and Natural Resources
1Q03	now	Sustainable Energy Ireland

Steam Coal for Electricity Generation

Prices are derived from the average quarterly expenditure of electricity power plants on all grades of steam coal. This information is gathered through a quarterly survey sent to the power plant companies.

Specifications

NCV: 6 194 kcal/kg

Steam Coal for Households

General Tax (VAT): See general notes for Ireland.

Average price for coal delivered to households in Dublin. The type of coal varies over time according to supply. Blended coal types also occur. From 1 September 1990 onwards, bituminous coal is banned from sale in the Dublin area.

Specifications

Quality: Smokeless coal (4Q90 onwards)
Bituminous coal (prior to 4Q90)

ELECTRICITY

Source: Statistical Office of the European Communities, *Energy Statistics Yearbook*.

Industry

Prices refer to average revenues per kWh received by utilities from all high-voltage consumers (all industrial sectors).

Households**General Tax (VAT)**

From	To	%
01.03.88	28.02.90	5
01.03.90	28.02.91	10
01.03.91	31.12.02	12.5
01.01.03	now	13.5

Prices refer to average revenues per kWh received by utilities from all low-voltage consumers.

ENERGY PRICE INDICES

Annual indices are averages of the four quarters.

Wholesale: Quarterly indices are calculated by summing the indices for the three months in each quarter and calculating an average index.

Retail: Quarterly indices refer to those of mid-Feb, mid-May, mid-Aug, and mid-Nov of each year.

Source: Central Statistics Office, Sustainable Energy Ireland.

Oil Products

Oil products include the following items: home heating oil, petrol, diesel and motor oil. LPG for cars is included up to December 2001.

Electricity

Retail: Electricity for households.

Natural Gas

Retail: Natural gas for households.

Coal

Retail: Coal for households.

ITALY

GENERAL NOTES

From 1Q90 onwards, prices refer to weekly averages of the quarter. From 1Q85 to 4Q89 prices refer to the second month of each quarter. Prior to 1Q85, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel oil because it is refunded on purchases for commercial purposes.

From	To	%
01.01.78	31.12.80	14
01.01.81	31.12.82	15
01.01.83	31.07.88	18
01.08.88	30.09.97	19
01.10.97	now	20

OIL PRODUCTS

From May 1994 onwards, oil product prices are completely deregulated and set by oil companies. From May 1986 until April 1994, prices for gasoline and light fuel oil follow EU averages automatically. HFO prices are free market prices.

Sources: Unless specified otherwise, Ministry of Industry and Commerce, following specifications of EC decision dated 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Olio Combustibile ATZ
Density:	0.94 - 0.97 t/kl
Sulphur Content:	3 - 4%
Delivery Size:	< 24 000 t/year
NCV:	9 600 kcal/kg

Low Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Olio Combustibile BTZ
Density:	0.94 - 0.97 t/kl

Sulphur Content:	1%
Delivery Size:	< 24 000 t/year
NCV:	9 800 kcal/kg

Heavy Fuel Oil for Electricity Generation

From 4Q96, onwards, prices are confidential. Prior to 4Q96, prices refer to the annual and quarterly average expenditure per tonne incurred by ENEL for all oil consumed (including transport).

Source: ENEL.

Light Fuel Oil

General Tax (VAT): Applies to households only.

From	To	%
08.02.77	02.07.80	14
03.07.80	30.09.80	15
01.10.80	31.10.80	14
01.11.80	31.12.84	15
01.01.85	31.07.88	18
01.08.88	now	see general VAT

Excise Tax (Imposta di fabbricazione): As shown in excise tax column.

Specifications

Quality:	Gasolio Riscaldamento (Regime di sorveglianza "Fascia C")
Density:	0.82 - 0.84 t/kl
Delivery Size:	2 - 5 kl
NCV:	10 210 kcal/kg

Automotive Diesel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Gasolio Autotrazione
Density:	0.82 - 0.84 t/kl

Gasoline

General Tax (VAT)

From	To	%
01.01.73	02.07.80	12
03.07.80	30.09.80	18
01.10.80	31.10.80	12
01.11.80	31.12.82	18
01.01.83	31.12.84	20
01.01.85	31.07.88	18
01.08.88	now	see general VAT

Excise Tax (Imposte di fabbricazione): As shown in excise tax column. Gasoline for agricultural use is taxed less.

Specifications

Grade and Octane:	Premium Leaded 98 RON Premium Unleaded 95 RON
Lead Content:	≤ 0.6 g/litre
Density:	0.72 - 0.76 t/kl

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

NATURAL GAS**Industry**

Before the liberalisation of the gas market in Italy, the prices for natural gas sales were calculated in accordance with national agreements established between SNAM (dominant supply company) and the most representative industrial association (Confindustria and Confapi).

As a result of the liberalization, new prices negotiated between the different sellers and the buyers replaced the old price methodology. Pricing systems are different for each seller but the access to public facilities (transmission networks, storages, LNG plants and local distribution networks) is regulated by tariffs determined with reference to criteria given by the Energy Regulator (Autorità per l'Energia Elettrica e il Gas).

From 2004 onwards, prices refer to the weighted average of users with continuous contracts (Industria continuo) and non-continuous contracts (Industria interompibile). Prices between 2000 and 2003 were confidential. Prior to 1999, prices referred to the annual average revenue in lire per 10⁷ kcal received by distributors from industry.

Excise Tax (Imposta di Consumo and Regional Tax):

From the end of 2001, natural gas used for industrial purposes is subject to an indirect tax amounting to 13.7 EUR/10⁷ kcal for consumption up to 1 200 000 m³/year and 8.24 EUR/10⁷ kcal above that consumption. In addition, there is a regional tax between 5.67 and 34.06 EUR/10⁷ kcal depending on the region. In any case, this additional tax cannot exceed 50% of the value of national excise tax.

Excise Tax prior to 2001:

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
23.05.90	20.01.92	11.35	21 978
21.01.92	15.01.99	17.03	32 967
16.01.99	unknown	20.60	39 890

Specifications

GCV:	9 100 kcal/m ³
------	---------------------------

Source: From 2004 onwards, Ministry of Economic Development. Prior to 1999, SNAM.

Electricity Generation

Please note that price and tax information is not available after 1995 and the notes below may be out of date.

Excise Tax: The rate of excise tax is 0.49 EUR/10⁷kcal (956 ITL/10⁷kcal) for gas used for public electricity generation and 0.15 EUR/10⁷kcal (287 ITL/10⁷kcal) for autoproducers.

Price shown is annual and quarterly average expenditure per 10⁷ kcal incurred by ENEL for consumption of natural gas.

Specifications

GCV:	8 900 kcal/m ³
NCV:	8 250 kcal/m ³

Source: ENEL.

Households

For domestic consumers, tariffs charged by local distribution companies (LDCs) to companies that sell gas to domestic customers are determined on the basis of a conventional procedure settled by the Energy Regulator and have to be published by the LDCs. These prices differ from town to town.

The commodity charge is updated every three months with reference to the average quotations of gasoil, LSFO, and crude oil of the six months preceding the month of supply.

Starting from January 2003, since all customers can also be eligible, the gas prices for domestic consumers can be renegotiated. The Energy Regulator established a reference price that the selling company previously acting as part of the local distribution company must continue to offer to local civil customers unless they change their supplier.

From 2004 onwards, prices refer to the weighted average of all the users. Prices between 2000 and 2003 were confidential. Prior to 1999, annual prices refer to annual average revenue in lire per 10⁷ kcal received by distributors from households.

General Tax (VAT)

From	To	%
01.01.78	31.12.80	6
01.01.81	31.12.84	8
01.01.85	15.01.88	9
16.01.88	31.07.88	18
01.08.88	30.09.97	19
01.10.97	now	20*

* For domestic consumers VAT rate is 10% if the gas is used only for cooking and hot water up to 250 m³/year.

Users in Mezzogiorno, southern Italy

From	To	%
06.03.91	31.12.92	4
01.01.93	23.02.95	9
24.02.95	unknown	10

Excise Tax (Imposta di Consumo)*Excise tax in the South*

		EUR/10 ⁷ kcal			
From	To	T1	T2*	T3**	T4
01.01.04	now	42.47	42.47	136.50	136.50

* < 250 m³/year** > 250 m³/year*Excise tax in Middle-North*

		EUR/10 ⁷ kcal			
From	To	T1	T2*	T3**	T4
01.01.04	31.12.05	43.96	43.96	190.33	190.33
01.01.06	Now	45.49	45.49	190.33	190.33

* < 250 m³/year** > 250 m³/year

From 23 May 1990 and at least until 2000, different tax levels were introduced, as follows:

Cooking and water heating in the South

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
01.01.94	23.02.95	21.57	41 758
24.02.95	15.01.99	42.00	81 319
16.01.99	31.10.99	42.47	82 242
01.11.99	03.01.00	37.75	73 088
04.01.00	29.02.00	36.96	71 560
01.03.00	23.03.00	36.17	70 033
24.03.00	02.10.00	34.59	66 978
03.10.00	30.06.01	26.55	51 407

Other uses in the South

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
23.05.90	21.07.90	48.52	93 956
22.07.90	31.12.90	57.89	112 088
01.01.91	12.05.91	63.56	123 077
13.05.91	31.12.93	93.08	180 220
01.01.94	23.02.95	114.64	221 978
24.02.95	15.01.99	135.07	261 538
16.01.99	31.10.99	136.50	264 308
01.11.99	03.01.00	131.78	255 154
04.01.00	29.02.00	130.99	253 626
01.03.00	23.03.00	130.20	252 099
24.03.00	02.10.00	128.62	249 044
03.10.00	unknown	120.58	233 473

Cooking and water heating in other areas

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
23.05.90	07.03.91	43.70	84 615
08.03.91	31.12.93	6.81	13 187
01.01.94	23.02.95	28.38	54 945
24.02.95	15.01.99	48.81	94 505
16.01.99	31.10.99	49.28	95 429
01.11.99	03.01.00	44.56	86 275
04.01.00	29.02.00	43.69	84 604
01.03.00	23.03.00	42.83	82 934
24.03.00	02.10.00	41.11	79 604
03.10.00	unknown	32.34	62 626

Other uses in the other regions

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
23.05.90	21.07.90	92.22	178 571
22.07.90	31.12.90	111.24	215 385
01.01.91	12.05.91	116.91	226 374
13.05.91	31.12.93	146.42	283 516
01.01.94	23.02.95	167.99	325 275
24.02.95	15.01.99	188.42	364 835
16.01.99	31.10.99	190.45	368 758
01.11.99	03.01.00	185.72	359 604
04.01.00	29.02.00	184.93	358 077
01.03.00	23.03.00	184.14	356 549
24.03.00	02.10.00	182.56	353 495
03.10.00	unknown	174.52	337 923

Excise Tax prior to May 1990

From	To	EUR/ 10 ⁷ kcal	ITL/ 10 ⁷ kcal
01.01.78	13.12.79	17.04	33 000
01.01.80	29.02.80	20.72	40 110
01.03.80	15.01.88	17.04	33 000
16.01.88	31.07.88	22.70	43 956
01.08.88	22.05.90	43.70	84 615

Regional Tax: From 1 January 1991 onwards, an additional local tax is applied in most Italian regions. The total amount cannot exceed 50% of the value of the national excise tax. From 1 January 1997, the upper limit was increased to 34.05 EUR/ 10⁷kcal (65 935 ITL/10⁷ kcal). Prior to 1 January 1997, the tax was 5.68 - 28.38 EUR/10⁷ kcal (10 989 - 54 945 ITL/10⁷ kcal).

SpecificationsGCV: 9 100 kcal/m³

Source: From 2004 onwards, Ministry of Economic Development. Prior to 1999, SNAM.

COAL

From 1Q83 onwards, prices refer to first month of each quarter. Prior to 1Q83, prices refer to quarterly averages.

Steam Coal for Industry

Prices refer to the average import price (CIF).

Specifications

Sulphur Content:	1%
Ash Content:	14 - 16%
NCV:	6 162 kcal/kg
GCV:	6 890 kcal/kg

Source: Italian customs statistics via Eurostat in Luxembourg.

Steam Coal for Electricity Generation

Prices refer to annual and quarterly average expenditure/tonne incurred by ENEL for consumption of steam coal (including transport).

Specifications

NCV:	6 200 kcal/kg (estimated)
------	---------------------------

Source: ENEL.

Coal for households

General Tax (VAT)

From	To	%
01.01.78	31.12.80	6
01.01.81	31.12.84	8
01.01.85	now	9

Prices refer to the wholesale price for Milan.

Specifications

Quality:	Coking coal
Size:	40/70 mm

Source: Staffetta Quotidiana Petrolifera.

Coking Coal

Prices refer to the average import price (CIF).

Specifications

Sulphur: Content	1%
Ash Content:	6%
Water:	5%
Volatile Matters:	21%
Grain Size:	0/30 mm
NCV:	6 650 kcal/kg
GCV:	7 000 kcal/kg

Source: Italian customs statistics via Eurostat in Luxembourg.

ELECTRICITY

Excise Tax: Prior to 31 December 1993, all consumers in Southern Italy and in the Islands benefited from a 50% reduction of the excise tax.

Special Tax: Prices (but not taxes) include a considerable amount destined for a compensation fund covering unequal fuel cost increases among producers.

From 1 April 1999 onwards, prices refer to annual average revenues received by ENEL from industry and households. Prior to 1 April 1999 (the beginning of the electricity industry privatisation), ENEL covered over 90% of all Italian distribution of electricity.

Source: ENEL.

Industry

Excise Tax

From	To	EUR/ kWh	ITL/ kWh	Notes
01.01.75	30.05.88	0.0006	1.10	first 200 MWh/month
		0.0003	0.65	all additional consumption
31.05.88	31.12.00	0.0021	4.10	first 200 MWh/month
		0.0013	2.45	all additional consumption
01.01.01	now	0.0031	6.00	< 1 200 MWh/month

Special Taxes: For industry, provincial and/or local taxes combined usually reached, but did not exceed, the following amounts.

Local Tax (applied by "Comuni")

From	To	EUR/ kWh	ITL/ kWh	Notes
26.02.82	25.04.83	0.0026	5.0	< 500 kW
26.04.83	26.12.83	0.0021	4.0	< 1 000 kW
27.12.83	31.12.84	0.0023	4.5	< 1 000 kW
01.01.85	30.06.86	0.0026	5.0	< 1 000 kW
01.07.86	28.02.87	0.0028	5.5	< 1 000 kW
01.03.87	30.04.87	0.0031	6.0	< 1 000 kW
01.05.87	31.12.87	0.0031	6.0	< 1 000 kW
01.01.88	29.07.88	0.0034	6.5	< 1 000 kW
30.07.88	31.12.00	0.0034	6.5	any demand < 200 MWh/month
01.01.01	now	Suppressed		

Provincial Tax (applied by "Provincia"): Application of provincial taxes follows the same criteria as the local taxes applied by Comuni.

From	To	EUR/ kWh	ITL/ kWh	Notes
26.04.83	26.12.83	0.0021	4.0	
27.12.83	31.12.84	0.0023	4.5	
01.01.85	30.06.86	0.0026	5.0	
01.07.86	28.02.87	0.0028	5.5	
01.03.87	30.04.87	0.0041	8.0	
01.05.87	31.12.87	0.0041	8.0	
01.01.88	29.07.88	0.0044	8.5	
30.07.88	31.12.00	0.0059	11.5	
01.01.01	now	0.0093	18.0	< 200 MWh/month

State Tax

From	To	EUR/ kWh	ITL/ kWh	Notes
30.09.89	31.03.90	0.0036	7.0	
01.04.90	31.12.00	0.0036	7.0	< 30 kW
		0.0054	10.5	> 30 and < 3 000 kW
		0.0021	4.5	> 3 000 kW
01.01.01	now	Suppressed		

Households

General Tax (VAT)

From	To	%
01.01.78	31.12.80	6
01.01.81	31.12.84	8
01.01.85	27.04.95	9
28.04.95	now	10

Excise Tax: From 14 May 1991 onwards, excise tax is not charged on the first 150 kWh per month of consumption (up to 3kW).

From	To	EUR/ kWh	ITL/ kWh
01.01.75	30.05.88	0.0006	1.1
31.05.88	31.12.95	0.0021	4.1
01.01.96	now	0.0047	9.1

Special Taxes: The following tax excludes the first 150 kWh per month of consumption (up to 3kW).

Provincial Tax (applied by "Provincia")

From	To	EUR/ kWh	ITL/ kWh	Notes
23.04.81	26.12.83	0.0052	10	
27.12.83	31.12.84	0.0057	11	
01.01.85	30.06.86	0.0062	12	
01.07.86	28.02.87	0.0067	13	
01.03.87	31.12.87	0.0072	14	

From	To	EUR/ kWh	ITL/ kWh	Notes
01.01.88	29.07.88	0.0077	15	
30.07.88	13.05.91	0.0093	18	
14.05.91	31.12.00	0.0145	28	
01.01.01	now	0.0186	36	
		0.0204	39.5	for second home

State Tax

From	To	EUR/ kWh	ITL/ kWh	Notes
30.09.89	13.05.91	0.0036	7.0	Except first 75 kWh/month (< 3 kW)
		0.0054	10.5	All other cases
14.05.91	31.12.00	0.0041	8.0	Except first 150 kWh/month (< 3 kW)
		0.0059	11.5	for second home
01.01.01	now	Suppressed		

ENERGY PRICE INDICES

Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to the three-month average. Prior to 1Q93, indices refer to the second month of each quarter.

Sources: Wholesale: National Statistical Office (ISTAT), *Bollettino Mensile di Statistica*, monthly.

Retail: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: Petrolio greggio e prod. Petroliiferi.

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal Products

Wholesale: Carboni fossili.

JAPAN

GENERAL NOTES

From 4Q84 onwards, prices refer to the second month of the quarter. Prior to 4Q84, prices refer to the first month of each quarter. See individual products for details.

General Tax (Consumption Tax)

From	To	%
01.04.89	31.03.97	3
01.04.97	now	5

OIL PRODUCTS

For import duties on crude oil and oil products, see notes concerning oil imports at the end of Part I.

Excise Tax: General petroleum excise tax on all crude oil refined in Japan (rates excluding LPG):

From	To	%	JPY/ kl
01.01.78	31.08.84	3.5	
01.09.84	31.07.88	4.7	
01.08.88	now		2 040

The corresponding amounts are included in the ex-tax price shown, except for automotive diesel and gasoline, where they are shown separately.

The Japanese government only publishes official prices for gasoline and kerosene and only for the Tokyo area based on a survey carried out by the Management Coordination Agency. The Bank of Japan surveys and publishes price indices for various kinds of oil products.

Sources: Unless specified otherwise, Economic Research Association, *Weekly Commodity Prices Survey* operated in 32 locations throughout the country. Data reported to the IEA by METI.

High Sulphur Fuel Oil

Prices refer to unweighted average prices surveyed in Tokyo, Osaka and Nagoya.

Specifications

Quality:	Fuel Oil C
Sulphur Content:	3% (maximum)
Density:	0.95 t/kl (assumed)
Delivery:	By road tanker

Low Sulphur Fuel Oil

Prices refer to unweighted average prices surveyed in Tokyo, Osaka and Nagoya.

Specifications

Quality:	Fuel Oil A
Sulphur Content:	1% (maximum)
Assumed Density:	0.95 t/kl

Heavy Fuel Oil for Electricity Generation

Price shown is average annual expenditure per tonne incurred by the nine major electric power companies.

Specifications

Density:	0.95 t/kl (assumed)
Sulphur Content:	0.66% (1987 average) 0.84% (1978 average)

Source: METI, based on nine electric utilities.

Light Fuel Oil for Industry

Prices refer to unweighted average prices surveyed in Tokyo, Osaka and Nagoya.

Source: Economic Research Association.

Light Fuel Oil for Households

The fuel used in Japanese households is almost exclusively kerosene. Prices refer to unweighted average prices surveyed in Tokyo, Osaka and Nagoya.

Specifications

Specific Gravity:	0.80 t/kl
Delivery Size:	18-litre containers

Automotive Diesel

General Tax (Consumption Tax): Amounts are only applied to the ex-tax price.

Excise Tax

From	To	JPY/ litre
01.06.79	30.11.93	24.3
01.12.93	now	32.1

Prices refer to unweighted average prices surveyed in Tokyo, Osaka and Nagoya.

Gasoline

Excise Tax: As shown in tax column (at present: 45.6 JPY/litre gasoline tax and 8.2 JPY/litre road tax).

Prices refer to the unweighted average price for Tokyo, Osaka and Nagoya.

Automotive LPG

Excise Tax

From	To	JPY/ litre
01.01.70	now	9.8

Specifications

Density: 0.56 kg/l

Source: The Oil Information Center, The Institute of Energy Economics, Japan.

NATURAL GAS

Source: METI, Tokyo.

Industry and Households

Excise Tax: The following amounts are included in the ex-tax price.

From	To	%	JPY/ tonne
01.09.84	31.07.88	1.2	
01.08.88	30.09.03		720
01.10.03	31.03.05		840
01.04.05	now		960

Special Tax

Gas Tax

From	To	%
01.01.78	31.03.89	2

The gas sold in Japan is a mix of coal-based gas (0.2%), oil-based gas (6.8% LPG) and natural gas-based gas (93%).

Prices are derived from fiscal year average revenues per 10⁷ kcal received by three major gas utilities from industry and households. Industry includes commercial and wholesale use.

Specifications

GCV: 11 000 kcal/m³

Electricity Generation

Prices are derived from fiscal year average expenditure per 10⁷ kcal of LNG incurred by the nine major electric utilities.

Specifications

GCV: 13 000 kcal/kg

COAL

Steam Coal

From 1Q95 onwards, prices refer to imported steam coal prices. Prior to 1Q95, prices refer to weighted averages of import prices and domestic prices.

Specifications

Sulphur Content: 0.71% (1984)
0.56% (1978)
GCV: 5 375 kcal/kg (domestic)
6 354 kcal/kg (imported)

Source: Monthly Customs Statistics.

Coking Coal for Industry

From 1Q90 onwards, prices refer to imported coking coal prices. Prior to 1Q90, prices refer to the weighted average of domestic and imported coking coal prices. Domestic prices refer to the average of various free-gate prices to major domestic steel mills, and were adjusted from an original fiscal year to a calendar year base.

Specifications

GCV: 6 904 kcal/kg

Source: Monthly Customs Statistics, average unit values and volumes for tariff positions 2701.12-011, 2701.12-019, 2701.12-091 and 2701.12-092.

ELECTRICITY

Special Tax

Electric Power Source Development Promotion Tax

From	To	JPY/ kWh
01.10.74	30.06.80	0.085
01.07.80	30.09.83	0.3
01.10.83	30.09.03	0.445
01.10.03	31.03.05	0.425
01.04.05	31.03.07	0.4
01.04.07	now	0.375

Prices shown for industry and households are derived from financial year average revenues per kWh

received by the ten major electric power companies under contracts for "power" (industry and commercial) and for "light" (households). After the liberalization of the retail electricity market in 2000, some large companies entered into the market, but the "industry" price shown does not include retailing prices by those companies.

Sources: METI, Tokyo. Data published: Annual reports from the 10 major electric power companies.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Sources: Wholesale: *EDMC Energy Trend*, Institute of Energy Economics. Retail: *Monthly Statistics of Japan*,

Statistics Bureau, Ministry of Internal Affairs and Communications, Japan.

Oil Products

Wholesale: Wholesale price index of petroleum products, Petroleum products total. Data correspond to fiscal year, from 1 April to 31 May.

Retail: Consumer price index, Petroleum products.

Electricity

Retail: Consumer price index, Electricity.

Natural Gas

Retail: Consumer price index, Gas.

KOREA

GENERAL NOTES

General Tax (VAT)

From	To	%
01.01.00	now	10

Sources: Korea National Oil Corporation (oil products), Ministry of Commerce, Industry and Energy (natural gas, coal and electricity) and the Korean Energy Economics Institute (only coal for industry sector).

OIL PRODUCTS

Heavy Fuel Oil for Electricity Generation

Prices refer to the agent price.

Specifications

Quality:	Bunker Type C 1.0%
Density:	0.944 t/kl (assumed)
NCV:	9 203 kcal/kg

Low Sulphur Fuel Oil

Price shown refers to the agent price.

Specifications

Quality:	Bunker Type C 0.5%
Density:	0.944 t/kl (assumed)
NCV:	9 203 kcal/kg

Light Fuel Oil for Industry

Price shown refers to the price at service stations.

Specifications

Quality:	Heating Oil
Density:	0.87 t/kl (assumed)
NCV:	8 117 kcal/kg

Kerosene for Households

Price shown refers to the price at service stations.

Specifications

Quality:	Kerosene
Density:	0.87 t/kl (assumed)
NCV:	8 356 kcal/kg

Automotive Diesel for Non-Commercial Use

Price shown refers to the price at service stations.

Specifications

Quality:	Diesel 0.003%
Density:	0.84 t/kl (assumed)
NCV:	8 476 kcal/L

Gasoline

Price shown is refers to price at service stations.

Specifications

Grade:	Premium Unleaded 91, 92, 93 RON
Density:	0.74 t/kl (assumed)
NCV:	7 164 kcal/L

NATURAL GAS

VAT is not included in prices and taxes shown for industry and electricity generation because it is refunded.

Industry and Households

Prices are derived from average revenues per 10⁷ kcal received by gas utilities in big cities from industry and households.

Specifications

GCV:	10 500 kcal/m ³
------	----------------------------

Electricity Generation

Prices are derived from fiscal year average revenues per 10⁷ kcal received by the major Korean gas utility KOGAS from electricity generation.

Specifications

GCV:	10, 064 kcal/m ³
------	-----------------------------

COAL

Steam Coal for Industry

Specifications

Quality:	Anthracite
NCV:	6 600 kcal/kg.

ELECTRICITY

For industry, prices refer to average revenues per kWh for industrial service.

For households, prices refer to average revenues per kWh for residential service.

ENERGY PRICES INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Bank of Korea, Economic Statistics System.

Oil Products

Wholesale: Producer Price Indices (Basic Groups), Petroleum Products.

Retail: Consumer Price Indices (All Cities, Special Groups), Petroleum Products.

Electricity

Wholesale: Producer Price Indices (Basic Groups), Electric Power Supply.

Retail: Consumer Price Indices (All Cities), Electric Charges.

Natural Gas

Wholesale: Import Price Indices, Liquefied natural gas.

Retail: Consumer Price Indices (All Cities), Piped Natural Gas.

Coal

Wholesale: Producer Price Indices (Basic Groups), Anthracite.

Retail: Consumer Price Indices (All Cities), Coal Briquettes..

LUXEMBOURG

GENERAL NOTES

From 4Q89 onwards, prices refer to the weekly average of the quarter. Prior to 4Q89, prices refer to second month of each quarter. See individual products for details.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.78	31.12.83	5
01.01.84	31.12.92	6
01.01.93	now	15

OIL PRODUCTS

Sources: Ministry of Energy following the specifications of an EC decision of 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

From 1Q94 onwards, high sulphur fuel oil is no longer consumed in industry.

Specifications

Density:	0.95 t/kl
Sulphur Content:	1- 3.8%
Delivery Size:	< 24 000 t/year
NCV:	9 650 kcal/kg

Low Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Quality:	Fuel Oil Lourd BTS
Density:	0.95 t/kl
Sulphur Content:	1%
Delivery Size:	< 10 000 t/year
NCV:	9 650 kcal/kg

Light Fuel Oil

General Tax (VAT)

From	To	%
01.01.93	now	12

Excise Tax for Industry

Excise tax does not apply to agriculture.

From	To	EUR/ kl	LUF/ kl
01.01.93	31.12.04	18.59	750
01.01.05	now	21.00	

Excise Tax for Households

From	To	EUR/ kl	LUF/ kl
01.01.93	28.02.02	5.21	210
01.03.02	31.12.03	5.00	
01.01.04	now	10.00	

Specifications

Quality:	Gasoil Chauffage
Density:	0.84 t/kl
Delivery Size:	2 - 5 kl
NCV:	10 250 kcal/kg

Automotive Diesel Oil

General Tax (VAT): Applies to non-commercial use. See general notes for Luxembourg.

Excise Tax

From	To	EUR/ litre	LUF/ litre
Prior to	31.12.91	0.107	4.30
01.01.92	19.01.92	0.146	5.90
20.01.92	29.03.92	0.154	6.20
30.03.92	30.08.92	0.161	6.50
31.08.92	03.01.93	0.181	7.30
04.01.93	18.07.93	0.206	8.30
19.07.93	12.12.93	0.228	9.20
13.12.93	06.03.94	0.235	9.50
07.03.94	30.06.94	0.242	9.75
01.07.94	02.04.95	0.248	10.00
03.04.95	31.12.04	0.253	10.20
01.01.05	31.12.05	0.265	
01.01.06	31.12.06	0.278	
01.01.07	31.12.07	0.290	
01.01.08	now	0.320	

Gasoline

General Tax (VAT)

Leaded Gasoline		
From	To	%
01.01.84	31.12.91	12
01.01.92	09.04.99	15
09.04.99	now	no longer consumed

Unleaded Gasoline		
From	To	%
01.01.84	31.12.91	6
01.01.92	31.12.04	12
01.01.05	now	15

Excise Tax

Leaded Gasoline			
From	To	EUR/ litre	LUF/ litre
Prior to	31.12.87	0.222	8.96
01.01.88	31.12.91	0.247	9.96
01.01.92	19.01.92	0.277	11.16
20.01.92	02.08.92	0.284	11.46
03.08.92	13.09.92	0.296	11.96
14.09.92	03.01.93	0.309	12.46
04.01.93	18.07.93	0.334	13.46
19.07.93	30.06.94	0.356	14.36
01.07.94	09.10.94	0.393	15.86
10.10.94	10.03.99	0.399	16.11
11.03.99	09.04.99	0.424	17.11
10.04.99	now	no longer consumed	

Unleaded Gasoline			
From	To	EUR/ litre	LUF/ litre
01.01.88	31.12.91	0.222	8.96
01.01.92	03.01.93	0.252	10.16
04.01.93	18.07.93	0.269	10.86
19.07.93	30.06.94	0.304	12.26
01.07.94	09.10.94	0.341	13.76
10.10.94	10.03.99	0.347	14.01
11.03.99	31.12.03	0.372	15.01
01.01.04	31.12.06	0.442	
01.01.07	now	0.462	

Specifications

Grade and Octane: Premium Unleaded 98 RON
Premium Unleaded 95 RON

Leaded gasoline has not been sold since 9 April 1999. From 10 April 1999 to 2005 lead replacement gasoline was sold.

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

NATURAL GAS

General Tax (VAT)

From	To	%
01.01.78	31.12.83	5
01.01.84	now	6

Prices shown are representative rates for industry and households.

Specifications

NCV: 8 700 kcal/m³ (households)

Source: Ministère de l'Energie.

COAL

Steam Coal for Households

General Tax (VAT)

From	To	%
01.07.83	31.12.92	6
01.01.93	31.03.06	12
01.04.06	now	no longer consumed

ELECTRICITY

General Tax (VAT)

From	To	%
01.01.78	31.12.83	5
01.01.84	now	6

Excise Tax: As shown in excise tax column.

Prices shown in main table are average revenues per kWh received by the Luxembourg utilities from all high-voltage customers (industry) and all low-voltage consumers (households).

Source: Statistical Office of the European Union, *Energy Statistics Yearbook*.

ENERGY INDICES

Annual indices are 12-month averages. Quarterly indices refer to three-month average of the quarter.

Source: Correspondence with the Statistical Office of Luxembourg (STATEC).

Oil Products

Retail: Weighted average of LFO (heating oil) and gasoline.

Electricity

Retail: Tariff for household consumers.

Natural Gas

Retail: General tariff for natural gas.

Coal

Retail: Minimal consumption.

MEXICO

GENERAL NOTES

From 1 January 1993 onwards, the new peso (equal to 1000 pesos) was introduced. All prices and taxes presented reflect this change.

General Tax (VAT): VAT is included in all retail prices. VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel (for commercial use) because it is refunded on purchases for commercial purposes.

From	To	%
01.01.80	31.12.82	10
01.01.83	11.09.91	15
11.10.91	31.03.95	10
01.04.95	now	15

Sources: Comisión Federal de Electricidad. Data published: *Precios Internos y Externos de Referencia de los Principales Energeticos* 1970-2001, 14th Edition, 2003.

OIL PRODUCTS

Heavy Fuel Oil

Prices refer to national average price.

Specifications

Quality:	Combustoleo pesado
Density:	0.982 t/kl
Sulphur Content:	4.0% (maximum)
NCV:	10 139 kcal/kg

Light Fuel Oil for Industry

Specifications

Density:	0.852 t/kl
NCV:	10 849 kcal/kg

Quality:

From	To	Denomination
01.01.60	31.05.93	Diesel Nacional
01.06.93	31.10.99	Diesel Industrial Desulfurado
01.11.99	now	Diesel Industrial Bajo Azufre

Sulphur Content:

From	To	%
01.01.60	31.05.93	2.0 (max.)
01.06.93	31.10.99	0.5 (max.)
01.11.99	now	0.05 (max.)

Automotive Diesel

Excise Tax

IEPS (Impuesto Especial de Productos y Servicios): As shown in the excise tax column. Prices refer to national average price.

Specifications

Density:	0.852 t/kl
Cetane Index:	48 (min.) (commercial use)
NCV:	10 849 kcal/kg

Quality:

From	To	Quality
01.01.60	30.04.90	Diesel Nacional
01.05.90	30.09.93	Diesel Automotriz Desulfurado
01.10.93	31.08.96	Diesel SIN
01.09.96	now	Pemex Diesel

Sulphur Content:

From	To	Commercial	Non-Commercial
01.01.60	30.04.90	0.5	2.0 (max.)
01.05.90	31.10.99	0.5	0.5 (max.)
01.11.99	now	0.05 (max.)	0.05 (max.)

Gasoline

Excise Tax

IEPS (Impuesto Especial de Productos y Servicios): Included in ex-tax price. Prices refer to national average price.

Specifications

Premium Unleaded, Pemex Premium

Octane:	92 PON (minimum)*
Sulphur Content:	0.05% (maximum)
Density:	0.707 t/kl

Regular Unleaded, Regular Unleaded Extra and Magna

Octane:	87 PON (minimum)*
Sulphur Content:	0.10% (maximum)
Density:	0.729 t/kl

* PON is the average of the RON and the MON.

Source: Sistema de Información Energética (SIE), Secretaría de Energía.

NATURAL GAS

Prices refer to national average price.

Specifications

(PEMEX conditions: 20°C and 1kg/cm²)

Quality:	Gas natural
Density:	0.602 kg/m ³
NCV:	8 460 kcal/m ³
GCV:	9 400 kcal/m ³

Source: Comisión Reguladora de Energía.

COAL

Steam Coal for Electricity Generation

Prices refer to the amount that Comisión Federal de Electricidad (CFE) pays to Minera Carbonífera Río Escondido (MICARE), excluding the cost of handling and disposal of ashes ("manejo de cenizas"):

Year	MXN/ tonne	Year	MXN/ tonne
1991	13.915	1997	24.58
1992	9.33	1998	30.45
1993	9.33	1999	33.64
1994	9.33	2000	33.72
1995	13.76	2001	36.77
1996	17.29		

Specifications

Quality:	Carbón MICARE, sub-bituminous coal
Humidity:	4.16%
Ash Content:	38.55% (weight)
Sulphur Content:	1.01%
NCV:	4 575 kcal/kg

Source: Comisión Federal de Electricidad.

ELECTRICITY

Source: Sistema de Información Energética (SIE), Secretaría de Energía.

Industry

Prices refer to implicit average prices from electricity sales to the industrial sector.

The ex-tax price refers to the final price paid for industrial customers, excluding VAT. At present, six tariffs are in use. Prior to January 1984, four different tariffs were in use.

Households

Prices refer to implicit average prices from electricity sales to the residential sector, including VAT.

NETHERLANDS

GENERAL NOTES

From 1Q84 onwards, prices refer to the daily averages of the quarter. Prior to 1Q84, prices refer to the first month of the quarter. See individual products for details.

General Tax (VAT): VAT is not included in prices and taxes when it is refunded. See individual products for details.

From	To	%
01.01.78	31.12.83	18.0
01.01.84	30.09.86	19.0
01.10.86	31.12.88	20.0
01.01.89	30.09.92	18.5
01.10.92	31.12.00	17.5
01.01.01	now	19.0

OIL PRODUCTS

General Tax (VAT): Applies to households and non-commercial use. See general notes for the Netherlands.

Excise Tax: As shown in excise tax column.

Special Tax

COVA (Compulsory Storage Fee): The COVA is included in prices and in taxes.

Sources: Unless specified otherwise, Ministry of Economic Affairs following specifications of an EEC decision of 26 January 1977. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Heavy Fuel Oil for Industry

Special Tax

COVA (Compulsory Storage Fee): From 1 April 2001 onwards, it is no longer applied. Between 1 January 1987 to 1 April 2001 the amount is nil.

Specifications

Viscosity:	3 500 sec/370 cst. (up to 4Q03) 420 cSt (1Q04 onwards)
Sulphur Content:	< 1% (1Q97 onwards) < 2% (prior to 4Q96)
Density:	0.94 t/kl
Delivery Size:	25 000 t/year (by truck)
NCV:	9 760 kcal/kg

Light Fuel Oil for Industry

Only taxes are available.

Light Fuel Oil for Households

Reported list prices cover about 95% of heating oil market for private consumers.

Specifications

Quality:	HBO I
Density:	0.84 t/kl
Delivery Size:	3 - 7 kl
NCV:	10 100 kcal/kg

Automotive Diesel

Prices refer to nearly 100% coverage of all quantities sold by the oil companies through retail outlets.

From	To	Type of Price
Prior to	1996	Unweighted average of full-service pump prices
1996	now	Self-service pump prices

Specifications

Density:	0.84 t/kl
----------	-----------

Gasoline

Excise Tax

Premium Leaded/ Leaded Substitute			
From	To	EUR/ litre	NLG/ litre
01.01.78	31.12.79	0.220	0.4859
01.01.80	30.11.80	0.240	0.5294
01.12.80	31.12.80	0.242	0.5341
01.01.81	30.06.81	0.247	0.5441
01.07.81	30.11.81	0.261	0.5741
01.12.81	31.01.82	0.261	0.5745
01.02.82	30.04.82	0.263	0.5788
01.05.82	30.11.82	0.267	0.5879
01.12.82	31.12.82	0.267	0.5886
01.01.83	31.03.83	0.267	0.5891
01.04.83	30.06.83	0.283	0.6241
01.07.83	30.11.83	0.329	0.7241
01.12.83	28.02.84	0.328	0.7222
01.03.84	31.11.84	0.329	0.7242
01.12.84	31.03.86	0.326	0.7194
01.04.86	31.10.86	0.331	0.7284
01.11.86	31.12.86	0.371	0.8184
01.01.87	31.12.87	0.381	0.8397
01.01.88	31.03.88	0.382	0.8419
01.04.88	31.12.88	0.387	0.8538
01.01.89	12.03.89	0.386	0.8513
13.03.89	31.05.89	0.385	0.8484

From	To	EUR/ litre	NLG/ litre
01.06.89	31.12.89	0.395	0.8707
01.01.90	31.01.90	0.390	0.8591
01.02.90	31.05.90	0.401	0.8831
01.06.90	31.12.90	0.400	0.8816
01.01.91	28.02.91	0.397	0.8759
01.03.91	05.07.91	0.404	0.8897
06.07.91	31.12.91	0.521	1.1477
01.01.92	30.06.92	0.519	1.1436
01.07.92	31.12.92	0.519	1.1434
01.01.93	31.07.93	0.521	1.1474
01.08.93	31.12.93	0.520	1.1469
01.01.94	31.12.94	0.570	1.2569
01.01.95	31.12.95	0.570	1.2570
01.01.96	31.12.96	0.583	1.2840
01.01.97	30.06.97	0.590	1.3011
01.07.97	31.12.98	0.576	1.2684
01.01.99	31.12.99	0.587	1.2932
01.01.00	now	not available	

From September 1996 onwards, the prices for premium leaded refer to leaded substitute.

Unleaded

From	To	EUR/ litre	NLG/ litre
01.01.89	12.03.89	0.356	0.7839
13.03.89	31.05.89	0.359	0.7907
01.06.89	31.12.89	0.359	0.7907
01.01.90	31.01.90	0.362	0.7984
01.02.90	31.05.90	0.366	0.8075
01.06.90	31.12.90	0.366	0.8060
01.01.91	28.02.91	0.368	0.8115
01.03.91	05.07.91	0.374	0.8243
06.07.91	31.12.91	0.457	1.0073
01.01.92	30.06.92	0.455	1.0032
01.07.92	31.12.92	0.458	1.0085
01.01.93	31.07.93	0.456	1.0056
01.08.93	31.12.93	0.458	1.0091
01.01.94	31.12.94	0.508	1.1191
01.01.95	31.12.95	0.508	1.1201
01.01.96	31.12.96	0.519	1.1430
01.01.97	30.06.97	0.527	1.1606
01.07.97	31.05.98	0.576	1.2684
01.06.98	31.12.98	0.575	1.2669
01.01.99	31.12.99	0.587	1.2932
01.01.00	31.12.00	0.597	1.3150
01.01.01	31.03.01	0.610	1.3440
01.04.01	31.12.01	0.611	1.3463
01.01.02	31.09.02	0.630	
01.10.02	31.12.02	0.616	
01.01.03	31.12.03	0.638	
01.01.04	31.12.04	0.668	
01.01.05	31.12.06	0.676	
01.01.07	now	0.687	

From 1996 onwards, prices refer to self-service pump prices. Prior to 1996, prices refer to weighted average of full service pump prices applied by major oil companies.

Prices shown cover nearly 100% of all oil companies.

Specifications

Premium Unleaded 98 RON gasoline

Quality: Euro 98
Density: 0.745 t/kl

Premium Unleaded 95 RON gasoline

Quality: Euro 95
Density: 0.745 t/kl

Premium Leaded 98 RON gasoline

Lead Content: 0.4 g/litre
Density: 0.745 t/kl

Sources: Central Bureau of Statistics and Ministry of Economic Affairs.

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

NATURAL GAS

Households with an assumed yearly consumption of 2 000 m³ include the standing charge.

Industries with an assumed yearly consumption of 25 million m³ include a tariff for the first 10 million m³, higher than the tariff for the next 15 million m³.

Specifications

GCV: 8 406 kcal/m³
NCV: 7 565 kcal/m³

Industry and Electricity Generation

Special Tax

Environmental Protection Tax: As shown in excise tax column.

Price shown is the large-consumer tariff for consumption of 25 million m³ per year per 10⁷ kcal (GCV).

Source: Gasunie, wholesale distributor.

Households

General Tax (VAT): See general notes for the Netherlands.

Special Taxes*Environmental Protection Tax*

From	To	EUR/ 10 ⁷ kcal	NLG/ 10 ⁷ kcal
01.01.78	31.01.82	0.16	0.36
01.02.82	31.12.82	0.27	0.60
01.01.83	31.12.83	0.29	0.64
01.01.84	31.03.88	0.27	0.60
01.04.88	31.01.90	0.38	0.83
01.02.90	31.12.90	2.46	5.43
01.01.91	28.02.91	2.29	5.05
01.03.91	31.12.91	5.25	11.57
01.01.92	30.06.92	4.76	10.49
01.07.92	31.12.92	22.45	49.48
01.01.93	31.12.94	11.23	24.75
01.01.95	31.12.95	11.64	25.65

Energy Tax: The Energy tax was introduced on 1 January 1996. The objective is to stimulate energy savings. A discount is used to reduce the energy tax.

Year	Category	EUR/ 10 ⁷ kcal	EUR/ 1000 m ³	NLG/ m ³
1996	a	11.63	9.78	0.02155
	b	28.91	24.30	0.05355
	c	28.91	24.30	0.05355
	d	11.63	9.78	0.02155
	e	11.63	9.78	0.02155
	f	7.61	6.40	0.01410
1997	a	11.63	9.78	0.02155
	b	46.19	38.82	0.08555
	c	46.19	38.82	0.08555
	d	11.63	9.78	0.02155
	e	11.63	9.78	0.02155
	f	7.78	6.53	0.01440
1998	a	11.63	9.78	0.02155
	b	63.10	53.02	0.11685
	c	63.10	53.02	0.11685
	d	11.63	9.78	0.02155
	e	11.63	9.78	0.02155
	f	7.78	6.53	0.01440
1999	a	11.88	9.98	0.02200
	b	98.17	82.35	0.18180
	c	68.26	57.36	0.12640
	d	15.71	13.21	0.02910
	e	11.88	9.98	0.02200
	f	7.78	6.53	0.01440
2000	a	12.10	10.16	0.02240
	b	124.52	104.64	0.23060
	c	73.87	62.08	0.13680
	d	20.41	17.15	0.03780
	e	12.10	10.16	0.02240
	f	7.88	6.63	0.01460

Year	Category	EUR/ 10 ⁷ kcal	EUR/ 1000 m ³	NLG/ m ³
2001	a+b	155.41	130.60	0.28780
	c	79.16	66.52	0.14660
	d	24.73	20.78	0.04580
	e	12.31	10.35	0.02280
	f	8.05	6.76	0.01490
2002	a+b	160.17	134.60	
	c	81.52	68.50	
	d	25.35	21.30	
	e	12.61	10.60	
	f	8.33	7.00	
2003	a+b	166.01	139.50	
	c	84.49	71.00	
	d	26.30	22.10	
	e	13.09	11.00	
	f	8.69	7.30	
2004	a+b	170.00	142.90	
	c	86.49	72.70	
	d	27.01	22.70	
	e	13.44	11.30	
	f	12.61	10.60	
	g	8.92	7.50	
2005	a+b	177.79	149.40	
	c	121.26	101.90	
	d	37.01	31.10	
	e	13.69	11.50	
	f	12.73	10.70	
	g	9.04	7.60	
2006	a+b	179.33	150.70	
	c	147.32	123.80	
	d	40.46	34.00	
	e	13.80	11.60	
	f	12.85	10.80	
	g	9.16	7.70	
2007	a+b	182.19	153.10	
	c	159.56	134.20	
	d	44.23	37.20	
	e	14.03	11.80	
	f	13.08	11.00	
	g	9.27	7.80	

a. 0 - 800 m³; b. 801 - 5 000 m³; c. 5 001 - 170 000 m³; d. 170 001 - 1M m³; e. 1M - 10M m³; f. up to 4Q03 > 10M m³, from 1Q04 > 10M m³ non-commercial; g. > 10M m³ commercial.

Prices refer to the average tariff of Dutch distributors for yearly consumption of 2 000 m³ per 10⁷ kcal (GCV) and include standing charges.

From 2001 onwards, the total yearly natural gas bill is reimbursed for all natural gas consumers by an amount independent from the volume of natural gas consumed.

Source: From 2004 onwards, Statistics Netherlands website surveys of energy companies. Prior to 2004, EnergieNed.

Discount on Energy Tax (Gas):

The discount was taken account of in the prices, but not in the taxes above

From	To	Discount (Euro)
01.01.01	31.12.01	96.20
01.01.02	31.12.05	96.00
01.01.06	31.12.06	96.84
01.01.07	31.12.07	98.18

COAL

Steam Coal for Industry and Electricity Generation

Prices shown are average annual expenditures by industry and electric utilities for a tonne of a given coal category.

Specifications

Category: Hard coal
NCV: 7 000 kcal/kg

Source: Central Bureau of Statistics, *De Nederlandse Energiehuishouding*, annual survey among industry and utilities.

Steam Coal for Households

Specifications

Quality: Anthracite

Source: NOVOK (Organisation of oil and coal merchants) *Brandstoffen Visie*.

Coking Coal for Industry

Specifications

Quality: Hard coal coke
NCV: 6 800 kcal/kg

ELECTRICITY

Taxes on electricity: From 1 July 2003 until 1 January 2007, the total yearly electricity bill was increased by a surcharge intended to finance improvement of the environmental performance of electricity production (MEP-heffing). At the same time, consumers receive a reimbursement for the surcharge. This surcharge was not subjected to VAT. The effect on the total yearly

electricity bill is a decrease of the VAT percentage below the general level. From 1 January 2007, the surcharged has been stopped. As a consequence the percentage of VAT in the total electricity price has regained the normal level of 19%. In addition consumers are charged for energy tax. The amount is related to the volume consumed. To compensate for the high energy prices, consumers receive a discount on energy tax independent of the volume consumed.

Surcharge intended to finance improvement of the environmental performance of electricity production (MEP-heffing)

From	To	Surcharge
01.07.03	31.12.03	34.00
01.01.04	31.12.04	39.00
01.01.05	31.12.06	52.00
01.01.07	now	0.00

Special Tax

ECO Tax

Year	Category	EUR/ kWh	NLG/ kWh
1996	a	0.0000	0.0000
	b	0.0134	0.0295
	c	0.0134	0.0295
	d	0.0000	0.0000
	e	0.0000	0.0000
1997	a	0.0000	0.0000
	b	0.0134	0.0295
	c	0.0134	0.0295
	d	0.0000	0.0000
	e	0.0000	0.0000
1998	a	0.0000	0.0000
	b	0.0134	0.0295
	c	0.0134	0.0295
	d	0.0000	0.0000
	e	0.0000	0.0000
1999	a	0.0000	0.0000
	b	0.0225	0.0495
	c	0.0147	0.0323
	d	0.0010	0.0022
	e	0.0000	0.0000
2000	a	0.0000	0.0000
	b	0.0372	0.0820
	c	0.0161	0.0354
	d	0.0022	0.0048
	e	0.0000	0.0000
2001	a+b	0.0583	0.1285
	c	0.0194	0.0427
	d	0.0059	0.0130
	e	0.0000	0.0000
2002	a+b	0.0601	
	c	0.0200	
	d	0.0061	
	e	0.0000	

Year	Category	EUR/ kWh	NLG/ kWh
2003	a+b	0.0639	
	c	0.0207	
	d	0.0063	
	e	0.0000	
2004	a+b	0.0654	
	c	0.0212	
	d	0.0065	
	e	0.0010	
	f	0.0005	
2005	a+b	0.0699	
	c	0.0263	
	d	0.0086	
	e	0.0010	
	f	0.0005	
2006	a+b	0.0705	
	c	0.0343	
	d	0.0094	
	e	0.0010	
	f	0.0005	
2007	a+b	0.0716	
	c	0.0369	
	d	0.0102	
	e	0.0010	
	f	0.0005	

a. 0 - 800 kWh; b. 801 - 10 000 kWh; c. 10 001 - 50 000 kWh; d. 50 001 - 10M kWh; e. up to 4Q03 > 10M kWh, from 1Q04 > 10M kWh non-commercial; f. > 10 M kWh commercial.

Price shown is the average tariff per kWh of Dutch distributors.

Discount

From 1 January 2001 onwards, the total yearly electricity bill for all electricity consumers is discounted by an amount independent of the amount of electricity consumed. This discount is included in the prices, but not in the taxes in the table below.

Discount on Energy Tax (Electricity):

From	To	Discount
01.01.01	31.12.01	45.38
01.01.02	31.12.05	46.00
01.01.06	31.12.06	48.16
01.01.07	now	100.82

Source: From 2004 onwards, Statistics Netherlands website surveys of energy companies. Prior to 2004, EnergieNed.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer the three-month average of the quarter.

The retail indices are chained series that have been extended backwards from 4Q2002. Therefore, the value in the base year may not be exactly equal to 100.

Source: Wholesale and retail: Statistics Netherlands, Price statistics and short-term indicators.

Oil Products

Wholesale: Producer price index for oil refinery products.

Retail: Consumer price index for fuels and lubricants.

Electricity

Wholesale: Producer price index for electricity.

Retail: Consumer price index for electricity.

Natural Gas

Wholesale: Producer price index for natural gas, both liquefied and gaseous.

Retail: Consumer prices index for gas.

NEW ZEALAND

GENERAL NOTES

From 1Q90 onwards, prices refer to quarterly averages. From 1Q86 to 4Q89, prices refer to the second month of the quarter. Prior to 4Q85, prices refer to the end of the quarter. See individual products for details.

General Tax

GST (Goods and Services Tax): Sales of all fuels and electricity (and other goods and services in the economy) are subject to the GST. Commercial and industrial consumers generally obtain refunds on any GST paid, so GST-exclusive prices are shown for industry, electricity generation and automotive diesel for commercial purposes.

From	To	%
01.10.86	30.06.89	10.0
01.07.89	now	12.5

OIL PRODUCTS

From 3Q87 onwards, oil product prices refer to market prices (no price control). Prior to 3Q87, prices refer to retail prices set by Government regulation.

Source: Ministry of Economic Development, Energy and Communications Branch.

High Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

From 1Q90 onwards, prices are end-quarter averages.

Fuel oil is used for peak load capacity. Since 1998, generation from fuel oil has been negligible.

Specifications

Quality:	Heavy fuel oil
Sulphur Content:	< 3.5%
Density:	0.945 t/kl
NCV:	10 129 kcal/kg

Light Fuel Oil

Excise Tax

From	To	NZD/ kl
01.01.78	30.09.86	See excise column.
01.10.86	01.07.89	50.00

From 1Q90 onwards, prices are end-quarter averages.

Specifications

Quality:	Blended heating oil
Sulphur Content:	< 2.0%
Density:	0.824 t/kl
NCV:	10 366 kcal/kg

Automotive Diesel

General Tax (GST): See general notes for New Zealand.

Special Taxes

Crown Revenue / Petroleum Excise Tax

From	To	NZD/ litre
22.06.79	05.08.82	0.005
06.08.82	30.09.86	0.072
01.10.86	30.06.89	0.232
01.07.89	31.12.90	0.162
01.01.91	30.06.91	0.112

Local Authority Tax

From	To	NZD/ litre
01.02.71	now	0.0033

Other Special Taxes and Levies: See Petroleum Fuels Monitoring Levy and Liquid Fuels Trust Levy for gasoline.

From 1Q90 onwards, prices are end-quarter averages.

From 3Q87 onwards, prices are wholesale.

Specifications

Quality:	Automotive gas oil
Sulphur Content:	< 0.05%
Density:	0.822 t/kl
NCV:	10 297 kcal/kg

Gasoline

General Tax (GST): See general notes for New Zealand.

Special Taxes

Crown Revenue / Petroleum Excise tax

Premium Leaded/Premium Unleaded		
From	To	NZD/ litre
23.05.75	01.06.78	0.047
02.06.78	31.03.79	0.077

From	To	NZD/ litre
01.04.79	31.03.80	0.085
01.04.80	05.08.82	0.067
06.08.82	30.09.86	0.098
01.10.86	30.06.89	0.258
01.07.89	31.12.90	0.218
01.01.91	31.06.91	0.198
01.07.91	07.08.91	0.193
08.08.91	02.07.92	0.231
03.07.92	14.05.98	0.208
15.05.98	19.03.01	0.187
20.03.01	30.06.01	0.178
01.07.01	30.09.04	0.185
01.10.04	now	0.187

Regular Unleaded

From	To	NZD/ litre
Prior to	05.08.82	See leaded/unleaded
06.08.82	30.09.86	0.093
01.10.86	30.06.89	0.253
01.07.89	31.12.90	0.213
01.01.91	31.06.91	0.193
01.07.91	now	See leaded/unleaded

Special Taxes and Levies*National Roads Fund*

From	To	NZD/ litre
01.01.70	31.03.77	0.040
01.04.77	31.03.79	0.050
01.04.79	31.03.80	0.043
01.04.80	30.09.82	0.060
01.10.82	08.11.84	0.064
09.11.84	31.03.88	0.089
01.04.88	07.08.91	0.109
08.08.91	02.07.92	0.071
03.07.92	14.05.98	0.094
15.05.98	30.06.00	0.136
01.07.00	28.02.02	0.135
01.03.02	30.09.04	0.177
01.10.04	31.03.05	0.175
01.04.05	31.03.06	0.225
01.04.06	31.03.07	0.232
01.04.07	now	0.238

Petroleum Fuels Monitoring Levy

From	To	NZD/ litre
01.08.88	31.12.88	0.00030
01.01.89	now	0.00025

Local Authority Tax

From	To	NZD/ litre
01.02.71	now	0.0066

Accident Compensation Corporation Levy

From	To	NZD/ litre
01.10.91	03.19.01	0.020
03.20.01	30.06.01	0.030
01.07.01	30.06.03	0.023
01.07.03	30.06.05	0.051
01.07.05	30.06.07	0.058
01.07.07	now	0.073

Liquid Fuels Trust Levy

From	To	NZD/ litre
01.01.78	30.09.86	0.001

Refinery Expansion Levy

From	To	NZD/ litre
01.01.83	31.12.83	0.024
01.01.84	31.12.84	0.067
01.01.85	31.12.85	0.128
01.01.86	31.03.86	0.100
01.04.86	01.10.86	0.160

Lead Tax

From	To	NZD/ litre
01.01.91	30.09.91	0.0231
01.10.91	30.06.93	0.0280
01.07.93	31.12.94	0.0210
01.01.95	31.12.95	0.0190

Regional Taxes: From 1 July 1992 to 31 January 1996, premium and regular gasoline was also subject to regional taxes.

From 1Q90 onwards, prices refer to retail prices. From 3Q87 to 4Q89, premium leaded and regular unleaded prices refer to wholesale prices.

The importation of leaded petrol, or lead additive, was banned from 1 January 1996. All stocks of leaded petrol were consumed by 2Q96.

Specifications*Leaded Premium/Unleaded Premium*

Octane:	96 RON
Sulphur Content:	< 0.015%
Density:	0.757 t/kl
NCV:	10 466 kcal/kg

Regular Unleaded

Octane:	91 RON
Sulphur Content:	< 0.035%
Density:	0.739 t/kl
NCV:	10 296 kcal/kg

NATURAL GAS

General Tax (GST): See general notes for New Zealand.

Special Taxes and Levies*Energy Resource Levy*

From	To	NZD/ 10 ⁷ kcal	NZD/ GJ
01.01.77	now	19.5	0.45

From 1 January 1986 onwards, new gas discoveries are exempt from the energy resource levy.

Gas Technology Levy

From	To	NZD/ 10 ⁷ kcal	NZD/ GJ
26.06.87	31.12.89	0.4	0.00969
01.01.90	30.09.00	0.6	0.0131
01.10.00	now	0.9	0.02

From 2000 onwards, quarterly gas consumption, gas sales revenue and gas customer numbers are taken from a survey run by the Ministry of Economic Development, Energy and Communications Branch. These data are used to derive average unit prices. Where the results for the latest survey are pending, the Producer Price Index (industry) and Consumer Price Index (households) are used to derive an estimate of price.

Prior to the year 2000, household prices refer to weighted averages of end-quarter prices in seven cities, based on published tariff schedules and the Producer Price Index was used to estimate industry gas prices.

Specifications

GCV:	9 004 kcal/m ³
NCV:	8 104 kcal/m ³

Industry

Price for an annual consumption of 100 000 GJ and comprised of businesses classified to Australian and New Zealand Standard Industry Classification divisions: A, B, C, D and E.

Electricity Generation

Prices and taxes are confidential.

Households

Prices refer to annual consumption of 60 GJ or less and exclude commercial users of natural gas.

COAL

General Tax (GST): See general notes for New Zealand.

Special Taxes and Levies*Energy Resource Levy*

From	To	NZD/ tonne	Notes
01.01.77	now	2.0	Excl. South Island lignite
		1.5	South Island lignite only

Prices refer to weighted averages of prices surveyed in 18 different locations and include the ex-mine price and the rail freight to destination.

Information on coal consumed in the industry sector and for electricity generation is confidential.

Specifications

Quality:	Bituminous coal
NCV:	6 836 kcal/kg

ELECTRICITY

Prices refer to average revenues per kWh received by utilities from all industrial sectors and households.

Source: Ministry of Economic Development, Resources and Networks Branch.

ENERGY PRICE INDICES

Quarterly data refer to the last month of each quarter. Annual figures are averages of the quarterly data shown.

Source: Statistics New Zealand.

Oil Products

Wholesale: Prices collected from the 4 major oil/petrol retailers in New Zealand. A range of products are priced, however, prices for premium motor spirit and diesel (delivered to pump) make up 65% of the index. Other items include aviation fuel, light fuel oil, kerosene, engine and lubricating oils, and Amex explosive.

Electricity

Wholesale: Ninety quotes provided from 15 different electricity retailers, for a series of “model services” in which usage details of a firm (deemed to a representative customer) are provided to the retailer. The electricity retailer reports their estimate of the monthly charge for the middle month of the reference quarter.

Three different sized models are provided to each retailer (for small, medium, and large electricity users) as well as separate quotes to take account of summer and winter pricing differences.

Retail: Twenty-five centres combined.

Natural Gas

Wholesale: Same methodology as commercial electricity index, but with a smaller number of price quotations.

Retail: Seven centres combined.

Coal Products

Wholesale: Twenty-seven different price quotes. All report a price per tonne for a specified grade of coal from a specified mine or location. Prices are an average wholesale price for the middle month of the reference quarter.

Retail: Coal, charcoal and firewood combined.

NORWAY

GENERAL NOTES

From 1Q93 onwards, prices refer to the weekly averages of the quarter. From 1Q86 to 4Q92, prices refer to the second month of the quarter. From 1Q83 to 4Q86, prices refer to the first month of the quarter. Prior to 1Q83, prices are quarterly averages. See individual products for details.

Annual averages for oil and electricity are final and represent the official Norwegian statistics. Quarterly prices are provisional.

General Tax (VAT): VAT is not included in prices and taxes shown for industry and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.70	31.12.92	20
01.01.93	31.12.94	22
01.01.95	31.12.00	23
01.01.01	31.12.04	24
01.01.05	now	25

OIL PRODUCT PRICES

Source: Unless specified otherwise, Ministry of Petroleum and Energy; based on questionnaires received from STATOIL.

Low Sulphur Fuel Oil

Excise Tax

From	To	NOK/ tonne	NOK/ kl
01.01.95	now	0	0

Special Taxes

Sulphur Tax

From	To	NOK/ tonne	NOK/ kl
0.05 - 0.25% of Sulphur Content			
01.01.95	now	85	70

CO₂ Tax

From	To	NOK/ tonne	NOK/ kl
01.01.95	31.12.95	494	407
01.01.96	31.12.96	507	417
01.01.97	31.12.97	518	426
01.01.98	31.12.98	530	436
01.01.99	31.12.99	548	451
01.01.00	31.12.00	560	461
01.01.01	31.12.01	583	480
01.01.02	31.12.02	595	490
01.01.03	31.12.03	607	500
01.01.04	31.12.04	614	510
01.01.05	31.12.05	627	520
01.01.06	31.12.06	642	530
01.01.07	now	654	540

Basic Tax

From	To	NOK/ tonne	NOK/ kl
01.01.00	31.12.00	231	190
01.01.01	31.12.01	464	382
01.01.02	31.12.02	473	389
01.01.03	31.12.03	483	398
01.01.04	31.12.04	490	405
01.01.05	31.12.05	501	414
01.01.06	31.12.06	510	421
01.01.07	now	519	429

Specifications

Sulphur Content:	0.09% (2001 average) 0.2% (maximum)
Delivery Size:	2 400 - 3 999 litres
Density:	0.82 - 0.86 t/kl
NCV:	9 974 kcal/kg

High Sulphur Fuel Oil

Excise Tax

From	To	NOK/ tonne	NOK/ kl
01.01.78	31.12.79	10	10
01.01.80	31.12.82	20	20
01.01.83	31.12.83	22	22
01.01.84	31.12.84	24	24
01.01.85	31.12.85	27	26
01.01.86	04.05.86	29	28
05.05.86	30.06.86	48	47
01.07.86	31.12.86	82	80
01.01.87	31.12.87	153	150
01.01.88	31.12.88	214	210
01.01.89	31.12.89	214	210
01.01.90	31.12.90	316	310
01.01.91	30.06.92	327	320
01.07.92	31.12.92	173	170
01.01.93	31.12.94	0	0

Special Taxes*Sulphur Tax*

From	To	NOK/ tonne	NOK/ kl
0.5% of Sulphur Content (> 0.5%)			
01.01.83	31.12.83	5	5
01.01.84	31.12.84	6	6
0,05 - 0.25% of Sulphur Content			
01.01.88	31.12.88	15	15
01.01.89	31.12.89	26	25
01.01.90	31.12.90	51	50
01.01.91	31.12.94	71	70

CO₂ Tax

From	To	NOK/ tonne	NOK/ kl
01.01.91	31.12.92	306	300
01.01.93	31.12.93	408	400
01.01.94	31.12.94	410	402

Price shown is the list price, net of the estimated rebate of 25 NOK/tonne.

Specifications

Quality:	Fuel Oil No. 6
Sulphur Content:	1% (4Q94 onwards) 2.5% (1Q78 to 3Q94)
Density:	0.98 t/kl (assumed)

Light Fuel Oil

General Tax (GST): See general notes for Norway.

Excise Tax: See amounts under low sulphur fuel oil.

Special Taxes: See amounts under low sulphur fuel oil.

An additional excise tax is levied on light fuel oil. This applies mostly to industry. The tax is refunded if the sulphur content is removed before it is consumed. The tax is levied on each 0.25% sulphur content. From 1 January 1992 onwards, light fuel oil with a sulphur content less than 0.05% is exempted.

Specifications (industry)

Quality:	Fuel Oil No. 2
Density:	0.85 t/kl

Specifications (households)

Quality:	Fuel Oil No. 1
Density:	0.83 t/kl

Automotive Diesel Oil

Excise Tax: As shown in excise tax column.

Gasoline

General Tax (GST): See general notes for Norway.

Excise Tax

Leaded Gasoline		
From	To	NOK/ litre
01.01.78	31.12.79	1.10
01.01.80	31.12.80	1.30
01.01.81	31.12.82	1.45
01.01.83	31.11.83	1.60
01.12.83	31.12.85	1.75
01.01.86	30.06.86	1.92
01.07.86	31.12.86	2.27
01.01.87	31.12.87	2.42
01.01.88	31.12.88	2.70
01.01.89	31.12.89	2.81
01.01.90	31.12.90	3.06
01.01.91	31.12.91	3.21
01.01.92	30.06.92	3.42
01.07.92	01.07.94	3.72
02.07.94	31.12.94	4.03
01.01.95	31.12.95	4.24
01.01.96	31.12.96	4.31
01.01.97	31.12.97	4.76
01.01.98	31.12.98	4.87
01.01.99	31.12.99	4.25
01.01.00	31.12.00	4.34
01.01.01	30.06.01	4.31
01.07.01	31.12.01	4.53
01.01.02	31.12.02	4.62
01.01.03	31.12.03	4.72
01.01.04	31.12.04	4.80
01.01.05	31.12.05	4.07
01.01.06	31.12.06	4.10
01.01.07	now	4.17

From January 1999 onwards, the prices for premium leaded refer to leaded substitute.

Unleaded Gasoline		
From	To	NOK/ litre
01.01.86	30.06.86	1.72
01.07.86	31.12.86	2.09
01.01.87	31.12.87	2.20
01.01.88	31.12.88	2.38
01.01.89	31.12.89	2.45
01.01.90	31.12.90	2.63
01.01.91	31.12.91	2.68
01.01.92	30.06.92	2.77
01.07.92	31.12.93	3.07
01.01.94	30.06.94	3.12
01.07.94	31.12.94	3.37
01.01.95	31.12.95	3.57
01.01.96	31.12.96	3.64
01.01.97	31.12.97	4.02
01.01.98	31.12.98	4.11

From	To	NOK/ litre
01.01.99	31.12.99	4.25
01.01.00	31.12.00	4.34
01.01.01	30.06.01	4.06
01.07.01	31.12.01	3.74
01.01.02	31.12.02	3.81
01.01.03	31.12.03	3.89
01.01.04	31.12.04	3.96
01.01.05	31.12.05	4.03
01.01.06	31.12.06	4.10
01.01.07	now	4.17

Special Tax*CO₂ Tax*

From	To	NOK/ litre
01.01.91	31.12.91	0.60
01.01.92	31.12.93	0.80
01.01.94	31.12.94	0.82
01.01.95	31.12.95	0.83
01.01.96	31.12.96	0.85
01.01.97	31.12.97	0.87
01.01.98	31.12.98	0.89
01.01.99	31.12.99	0.92
01.01.00	31.12.00	0.94
01.01.01	31.12.01	0.72
01.01.02	31.12.02	0.73
01.01.03	31.12.03	0.75
01.01.04	31.12.04	0.76
01.01.05	31.12.05	0.78
01.01.06	31.12.06	0.79
01.01.07	now	0.80

NATURAL GAS

Very small amounts of natural gas are used for electricity generation. Prices are not available.

COAL

Prices for industry and households refer to average import prices (CIF), and are estimated after consultations with major importers and consumers.

Special Tax*CO₂ Tax*

From	To	NOK/ kg
01.01.93	31.12.93	0.400
01.01.94	31.12.94	0.410
01.01.95	31.12.95	0.415
01.01.96	31.12.96	0.425
01.01.97	31.12.97	0.435

From	To	NOK/ kg
01.01.98	31.12.98	0.445
01.01.99	31.12.99	0.460
01.01.00	31.12.00	0.470
01.01.01	31.12.01	0.480
01.01.02	31.12.02	0.490
01.01.03	now	0.500

Source: Ministry of Petroleum and Energy Survey among major importers and consumers.

ELECTRICITY**Special Tax***Consumption Tax*

From	To	NOK/ kWh
01.05.74	30.06.78	0.010
01.07.78	31.12.80	0.020
01.01.81	31.12.82	0.022
01.01.83	31.12.83	0.025
01.01.84	31.12.84	0.027
01.01.85	31.12.85	0.029
01.01.86	30.06.86	0.031
01.07.86	31.12.86	0.032
01.01.87	31.12.87	0.034
01.01.88	31.12.88	0.036
01.01.89	31.12.89	0.037
01.01.90	31.12.90	0.0385
01.01.91	31.12.91	0.040
01.01.92	31.12.92	0.0415
01.01.93	31.12.93	0.046
01.01.94	31.12.94	0.051
01.01.95	31.12.95	0.052
01.01.96	31.12.96	0.0530
01.01.97	31.12.97	0.0562
01.01.98	31.12.98	0.0575
01.01.99	31.12.99	0.0594
01.01.00	31.12.00	0.0856
01.01.01	31.12.01	0.1130
01.01.02	31.12.02	0.0930
01.01.03	31.12.03	0.0950
01.01.04	31.12.04	0.0967
01.01.05	31.12.05	0.0988
01.01.06	now	0.1050

Prices refer to average annual revenues per kWh that utilities receive from industry and households. They are converted to quarterly prices using the electricity sub-indices from the monthly Consumer Price Index (for households) and in the monthly Wholesale Price Index (for industry).

Source: Ministry of Industry and Energy; questionnaire survey of all power plants including those owned by industry.

Industry

Excise Tax: Applies to power-intensive industry and paper and pulp industry.

From	To	NOK/ kWh
01.01.87	31.12.87	0.031
01.01.88	31.12.88	0.034
01.01.89	31.12.89	0.037

From 1 January 1990 onwards, the power-intensive and paper and pulp industries are paying the same tax as the other sectors.

Prices refer to the average of the prices for the energy-intensive sectors such as manufacturing, paper and products, mining, quarrying, other manufacturing, transport, construction site power, private and public services. The electricity prices for industry do not include grid rent.

Households

Note: the electricity price series for households have been revised for the 3rd Quarter 2007 edition in order to include grid rent.

General Taxes (VAT): Rates vary between regions and over time. The national average rate is close to 20%.

Prices shown also include agriculture.

ENERGY PRICE INDICES

Annual figures are 12-month averages. From 1Q93 onwards, quarterly indices refer to the three-month average of the quarter. Prior to 4Q92, indices refer to the second month of each quarter.

Source: Central Bureau of Statistics, *Statistisk Manedshefte*, monthly.

Oil Products

Wholesale: Producer price index, refined petroleum products, domestic market.

Retail: Weighted average of consumer price index for fuels and lubricants for personal transport equipment and liquid fuels.

Coal Products

Wholesale: Coal, coke and briquettes.

Retail: Consumer price index, solid fuels.

Electricity

Retail: Consumer price index, electricity.

POLAND

GENERAL NOTES

From 1 January 1995 onwards, the Polish currency was denominated (1 new Zloty = 10 000 old Zlotys). All prices and taxes are shown in new Zlotys.

General Tax (VAT): VAT is not included in prices shown for industry, electricity generation and automotive diesel oil because it is refunded on purchases for commercial purposes.

Automotive Fuels

From	To	%
05.07.93	now	22

Other Energy

From	To	%
05.07.93	31.12.95	7
01.01.96	31.12.96	12
01.01.97	31.12.97	17
01.01.98	now	22

Source: Energy Market Agency / Central Statistical Office, Warsaw.

OIL PRODUCTS

High Sulphur Fuel Oil

Prior to 4Q97, the prices shown are annual and quarterly average expenditures for one tonne of heavy fuel oil paid to the distributors by industry and electricity generation sectors, respectively.

Excise Tax

From	To	PLN/t
01.01.05	now	60

Specifications

Quality:	Ciezk olej opalowy
Density:	0.955 - 0.97 t/kl
Sulphur Content:	1 - 3% (average 2.5%)
NCV:	9 793 kcal/kg

Low Sulphur Fuel oil

Sulphur Content: Less than 1%

Light Fuel Oil for Industry

Excise Tax

From	To	PLN/ kl	PLN/ tonne
01.07.99	31.07.99	272.31	307.0
01.08.99	31.08.99	276.26	334.0
01.09.99	31.12.99	100.00	118.34
01.01.00	29.02.00	105.00	124.26
01.03.00	31.08.00	110.00	130.18
01.09.00	31.12.00	115.00	136.09
01.01.01	31.05.01	123.00	145.56
01.06.01	31.12.01	130.00	153.85
01.01.02	31.12.02	160.00	189.35
01.01.03	31.12.03	195.00	230.77
01.01.04	31.12.04	197.00	233.14
01.01.05	now	233.00	275.74

Prices refer to the standard price for major distributors.

Specifications (1Q94 onwards)

Quality:	Ekoterm Plus
Density:	0.845 t/kl
Sulphur Content:	0.24 - 0.3%
NCV:	41 000 kJ/kg

Specifications (prior to 1Q94)

Quality:	Pozostale oleje napedowe
Density:	0.851 t/kl
Sulphur Content:	1.2%
NCV:	40 200 kJ/kg

Automotive Diesel Oil

Excise Tax

From	To	PLN/ litre	PLN/ kg
05.07.93	06.11.93	0.169	0.2
07.11.93	31.12.93	0.194	0.23
01.01.94	04.06.94	0.220	0.26
05.06.94	31.12.94	0.237	0.280
01.01.95	13.08.95	0.241	0.2849
14.08.95	31.12.95	0.300	0.355
01.01.96	13.04.96	0.307	0.3638
14.04.96	27.05.97	0.355	0.42
28.05.97	15.01.98	0.384	0.455
16.01.98	02.07.98	0.544	0.644
03.07.98	26.10.98	0.584	0.691

From	To	PLN/ litre	PLN/ kg
27.10.98	30.11.98	0.604	0.715
01.12.98	31.12.98	0.634	0.750
01.01.99	28.02.99	0.665	0.787
01.03.99	31.05.99	0.698	0.826
01.06.99	31.07.99	0.733	0.867
01.08.99	31.12.99	0.806	0.954
01.01.00	29.02.00	0.846	1.001
01.03.00	31.08.00	0.886	1.049
01.09.00	31.12.00	0.926	1.096
01.01.01	31.05.01	0.902	1.067
01.06.01	31.12.01	0.955	1.130
01.01.02	31.12.02	0.980	1.160
01.01.03	31.12.03	1.003	1.187
01.01.04	31.12.04	1.103	1.305
01.01.05	31.12.05	1.188	1.406
01.01.06	31.12.06	1.190	1.408
01.01.07	now	1.191	1.409

Prices refer to pump price at major distributor's retail stations.

Specifications:

Quality: Olej napędowy I
 Density: 0.845 t/kl
 Sulphur Content: ≤ 0.005% (2001 onwards)
 0.05 - 0.2% (prior to 2001)
 NCV: 10 203 kcal/kg

Gasoline

General Tax (VAT): See general notes for Poland.

Excise Tax

Leaded Premium

From	To	PLN/ litre	PLN/ kg
05.07.93	06.11.93	0.398	0.53
07.11.93	31.12.93	0.428	0.57
01.01.94	04.06.94	0.451	0.60
05.06.94	31.12.94	0.481	0.64
01.01.95	13.08.95	0.484	0.6445
14.08.95	31.12.95	0.563	0.7495
01.01.96	13.04.96	0.569	0.7583
14.04.96	27.05.97	0.658	0.876
28.05.97	15.01.98	0.688	0.916
16.01.98	02.07.98	0.848	1.129
03.07.98	26.10.98	0.888	1.182
27.10.98	30.11.98	0.908	1.209
01.12.98	31.12.98	0.938	1.249
01.01.99	28.02.99	0.999	1.330
01.03.99	31.05.99	1.049	1.397
01.06.99	31.07.99	1.102	1.467
01.08.99	31.12.99	1.219	1.614
01.01.00	29.02.00	1.279	1.694
01.03.00	31.08.00	1.339	1.774

From	To	PLN/ litre	PLN/ kg
01.09.00	31.12.00	1.399	1.853
01.01.01	31.05.01	1.498	1.997
01.06.01	31.12.01	1.588	2.117
01.01.02	31.12.02	1.629	2.172
01.01.03	now	not available	

Unleaded Premium

From	To	PLN/ litre	PLN/ kg
05.07.93	06.11.93	0.355	0.47
07.11.93	31.12.93	0.385	0.51
01.01.94	04.06.94	0.408	0.54
05.06.94	31.12.94	0.430	0.57
01.01.95	19.03.95	0.415	0.5495
20.03.95	13.08.95	0.422	0.5595
14.08.95	31.12.95	0.503	0.6665
01.01.96	13.04.96	0.510	0.6753
14.04.96	27.05.97	0.597	0.791
28.05.97	15.01.98	0.632	0.830
16.01.98	02.07.98	0.792	1.040
03.07.98	26.10.98	0.832	1.092
27.10.98	30.11.98	0.852	1.118
01.12.98	31.12.98	0.882	1.157
01.01.99	28.02.99	0.937	1.230
01.03.99	31.05.99	0.985	1.292
01.06.99	31.07.99	1.034	1.357
01.08.99	31.12.99	1.127	1.493
01.01.00	29.02.00	1.177	1.559
01.03.00	31.08.00	1.217	1.612
01.09.00	31.12.00	1.257	1.665
01.01.01	31.05.01	1.346	1.783
01.06.01	31.12.01	1.427	1.890
01.01.02	31.12.02	1.464	1.939
01.01.03	31.12.03	1.498	1.984
01.01.04	17.05.04	1.593	2.110
18.05.04	31.12.04	1.543	2.044
01.01.05	14.09.05	1.644	2.177
15.09.05	31.12.05	1.394	1.846
01.01.06	31.12.06	1.396	1.849
01.01.07	now	1.647	2.181

Prices refer to the pump price at major distributor's retail stations.

From 1Q01 onwards, the amounts of leaded premium gasoline consumption are so small that prices are no longer collected.

Specifications

Leaded Premium

Octane: 94 RON
 Quality: Etylina 94
 Density: 0.750 t/kl (assumed)
 NCV: 10 342 kcal/kg

Unleaded Premium

Octane:	95 RON
Quality:	Eurosuper 95
Density:	0.755 t/kl (assumed)
NCV:	10 342 kcal/kg

Unleaded Premium

Octane:	98 RON
Quality:	Super Plus 98
Density:	0.759 t/kl (assumed)
NCV:	10 342 kcal/kg

Automotive LPG**Excise Tax**

From	To	PLN/litre
01.01.03	31.12.03	0.253
01.01.04	30.04.04	0.381
01.05.04	31.12.04	0.413
01.01.05	31.12.05	0.449
01.01.06	31.12.06	0.450
01.01.07	now	0.451

Specifications

Quality:	gaz ciekly
Density:	0.562 t/kl
NCV:	11 297.4 kcal/kg

NATURAL GAS

General Tax (VAT): See general notes for Poland.

Prices refer to annual and quarterly average expenditures per 10⁷ kcal of natural gas paid to the gas utilities by the industry and household sectors. Only very small amounts of natural gas are used for electricity generation.

Specifications

Quality:	Przemysl (industry) Gospodarstwa domowe (households)
GCV:	39.5 MJ/m ³ (high-methane)

COAL**Steam Coal for Industry****Specifications**

Quality:	Wegiel energetyczny dla przemyslu
----------	-----------------------------------

NCV:

Year	kcal/kg	Year	kcal/kg
1986	4 900	1997	5 275
1987	4 884	1998	5 302
1988	5 165	1999	5 283
1989	5 086	2000	5 521
1990	5 246	2001	5 550
1991	5 304	2002	5 563
1992	5 410	2003	5 570
1993	5 129	2004	5 571
1994	5 187	2005	6 008
1995	5 204	2006	5 567
1996	5 259		

Steam Coal for Electricity Generation**Specifications**

Quality:	Wegiel energetyczny dla elektrowni ciepłych zawodowych.
----------	---

NCV:

Year	kcal/kg	Year	kcal/kg
1986	4 779	1997	5 114
1987	4 772	1998	5 161
1988	4 352	1999	5 144
1989	4 374	2000	5 085
1990	4 682	2001	5 073
1991	4 871	2002	5 111
1992	5 013	2003	5 136
1993	5 115	2004	5 095
1994	5 128	2005	5 106
1995	5 143	2006	5 160
1996	5 143		

Steam Coal for Households**Specifications**

Quality:	Wegiel energetyczny dla gospodarstw domowych
----------	--

NCV:

Year	kcal/kg	Year	kcal/kg
1986	6 202	1997	6 524
1987	6 192	1998	6 568
1988	5 865	1999	6 568
1989	6 159	2000	6 585
1990	6 572	2001	6 500
1991	5 754	2002	6 061
1992	6 421	2003	6 596
1993	6 295	2004	5 971
1994	5 811	2005	6 308
1995	5 441	2006	6 568
1996	6 568		

Coking Coal**Specifications**

Quality:	Wgiel dla koksowni (coke ovens).
----------	----------------------------------

NCV:

Year	kcal/kg	Year	kcal/kg
1986	7 066	1997	7 034
1987	7 064	1998	7 055
1988	6 661	1999	7 043
1989	6 691	2000	6 984
1990	6 660	2001	7 015
1991	7 065	2002	7 053
1992	7 073	2003	7 060
1993	7 024	2004	7 059
1994	6 805	2005	7 048
1995	7 012	2006	7 068
1996	7 014		

ELECTRICITY

General Tax (VAT): See general notes for Poland.

Prices refer to annual and quarterly average expenditures per 1 kWh of electricity paid to the electricity utilities by industry and household sectors respectively.

ENERGY PRICE INDICES***Oil Products***

Retail: Includes gasoline, lubricants, oils.

Natural Gas

Retail: Includes both pipelined gas and bottled gas.

Coal

Retail: Includes coal.

PORTUGAL

GENERAL NOTES

From 1Q93 onwards, prices refer to the monthly average of the quarter. From 1Q86 to 4Q92, prices refer to the second month of each quarter. Prior to 1Q86, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): VAT is not included in prices and taxes when it is refunded. See individual products for details.

On 1 January 2004, all oil prices were liberalized. Until 31 December 2003, only gasoline IO 95, automotive diesel oil and coloured diesel had maximum prices fixed by the Government. Prior to 23 March 1992, all energy prices were determined by the central government, except for coal.

Sources: Ministry of Economy and Innovation. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

OIL PRODUCTS

Excise Tax

ISP (Impuestos Sobre los Productos Derivados del Petróleo): After 1 January 2004, despite the above mentioned liberalization, ISP continues being fixed by the central Government. On 1 June 1994, the tax system for oil products was reformed in line with European practices. The ISP was fixed and selling prices varied according to changes in prices (before taxes) of the European basket. From 1 January 1991 to 30 May 1994, the (ISP) for premium leaded gasoline, diesel oil and heavy fuel oil was equal to the difference between a maximum price fixed by the Government and a monthly weighted average of prices before taxes of a basket of prices of European countries. Prior to 1991, the ISP fluctuated based on the difference between the fixed price paid by the consumer and the market price determined by the oil companies (as a function of their import cost).

Heavy Fuel Oil

From 9 January 1997 onwards, heavy fuel oil prices are liberalised. From 24 March 1992 to 8 January 1997,

the government fixed only the maximum prices for heavy fuel oil.

Specifications

Quality:	High Sulphur Fuel Oil
Density:	0.98 t/kl
Sulphur Content:	3.5%
NCV:	9 600 kcal/kg

Low Sulphur Fuel Oil

Specifications

Density:	0.98 t/kl
Sulphur Content:	1.0%
NCV:	9 600 kcal/kg

Light Fuel Oil

General Tax (VAT): 12%.

Specifications

Maximum Sulphur Content: 0.20 % (m/m) (ISO 8754)

Automotive Diesel Oil

General Tax (VAT): From 1Q91 onwards, VAT is reimbursed 100% for heavy passenger vehicles, public transport (except rent-a-car), diesel oil for machines (non-matriculated vehicles) and agriculture tractors. For purposes other than private cars, it is reimbursed at a rate of 50%. Prior to 1Q91, in exception to general EC practice, only 50% of VAT was reimbursed to industrial and commercial buyers of automotive diesel. The non-refundable part of VAT was shown as a part of price and tax.

From	To	% Industry	% Agriculture
01.01.86	23.03.92	8	8
24.03.92	30.06.96	5	5
01.07.96	31.12.96	12	12
01.01.97	04.06.02	17	17
05.06.02	30.06.05	19	12
01.07.05	now	21	12

From 24 March 1992 onwards, the government fixed only the maximum price for diesel.

From 1 October 1997 onwards, coloured diesel was introduced mainly for agriculture. It may also be used in stationary engines and for heating purposes.

Specifications

Density:	0.837 t/kl
Sulphur Content:	0.05% (max.) (3Q96 onwards)
Cetane Index:	51 (min.) (NP 3591, ISO 5165)

Gasoline

General Tax (VAT)

From	To	%
01.01.86	23.03.92	8
24.03.92	31.12.94	16
01.01.95	04.06.02	17
05.06.02	30.06.05	19
01.07.05	now	21

From 2Q99 onwards, leaded premium gasoline prices refer to leaded replacement gasoline.

From 1 July 1996 onwards, unleaded gasoline (95 RON) was included in the maximum price regime. From 24 March 1992 onwards, the government fixed only the maximum prices for leaded gasoline.

Specifications

Sulphur Content: 50 mg/kg maximum

Premium Leaded 98 RON

Density: 0.755 t/kl

Premium Unleaded 98 RON and 95 RON

Density: 0.748 t/kl

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

Specifications

Sulphur Content: 50mg/kg maximum

NCV: 11300 kcal/kg

NATURAL GAS

Specifications

GCV: 10 250 kcal/m³

Industry

The I3-1 consumer type, as defined in the Price Transparency Directive (90/377/CEE) (based on an annual consumption of 41 861 GJ), is assumed to be the most representative for industry.

Households

General Tax (VAT): 5%.

The Domestic Reference Consumer category D2 (based on annual consumption of 16.74 GJ), is assumed to be the most representative for Portuguese households.

Source: EUROSTAT.

COAL

Steam Coal for Industry

Prices refer to coal consumed in the cement industry.

Steam Coal for Electricity Generation

From 1Q96 onwards, prices refer to the average of imported coal, as domestic production ceased. From 3Q84 to 4Q95, prices refer to the weighted average of imported and domestically produced coal delivered to power stations. Prior to 3Q84, prices refer to coal delivered to power stations.

Specifications

Humidity: 10%

Ashes: 38%

Steam Coal for Households

Consumption of coal in households is insignificant.

Coking Coal for Industry

From	To	Notes
1Q78	4Q78	Highest selling prices declared by coal traders
1Q79	3Q81	Price reflects import prices of big industrial consumers for coke
4Q81	now	Average quarterly import price (CIF) for coking coal bought by large industrial consumers

ELECTRICITY

Industry

From 1985 onwards, as defined in the Price Transparency Directive, prices refer to consumer category 90/377/CEE, assumed to be the most representative for industry.

Specifications

Consumer Type: Industrial reference consumer

Annual Consumption: 1.25 GWh

Maximum Demand: 500 kW

Annual Utilisation: 2 500 h

Households

General Tax (VAT): 5%.

Prices refer to those of the domestic reference consumer.

Specifications

Low Voltage Tariff : < 20.7 kVA

Annual Utilisation : 500 h

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

SLOVAK REPUBLIC

GENERAL NOTES

From 1Q93 onwards, prices and taxes refer to the independent Slovak Republic. Prior to 1Q93, prices and taxes refer to the former Czechoslovakia.

Source: Ministry of the Economy, Slovak Republic.

OIL PRODUCTS

General Tax (VAT): VAT is refunded when a registered taxpayer or entity exports fuel, stock draws for tax-free purposes, returns of fuels from wholesalers to producer (if there is an error in tax computation), or use of taxed fuels to produce environmental fuels. See individual products for exceptions.

From	To	%
01.01.93	31.07.93	5
01.08.93	30.06.99	6
01.07.99	31.12.02	10
01.01.03	31.12.03	14
01.01.04	now	19

Heavy Fuel Oil

General Tax (VAT): VAT is refunded when it is used as an engine fuel.

Excise Tax

From	To	SKK/tonne
01.01.93	31.07.94	0
01.08.94	31.07.97	9 000
01.08.97	31.12.01	9 500
01.01.02	31.12.02	300
01.01.03	31.07.03	600
01.08.03	now	800

From 2Q00 onwards, high-sulphur fuel oil with a sulphur content greater than 2% is no longer consumed in industry or for electricity generation.

Specifications

Density: 990 kg/m³ (assumed)
Sulphur Content: > 1%
NCV: 9 699 kcal/kg

Light Fuel Oil for Industry

Excise tax and VAT are refunded for industry.

Specifications

Density: 0.91 t/kl (assumed)
Sulphur Content: < 1%
NCV: 10 101 kcal/kg

Light Fuel Oil for Households

Light fuel use in households is negligible and this series has been discontinued as of the 4th quarter 2003 edition.

Excise Tax

From	To	SKK/kl	SKK/tonne
01.01.93	31.07.94	0	0
01.08.94	31.07.97	8 190	9 000
01.08.97	31.12.01	8 645	9 500
01.01.02	31.12.02	273	300
01.01.03	31.07.03	546	600
01.08.03	31.12.03	728	800

Automotive Diesel Oil

General Tax (VAT): VAT is refunded for industry or when used for railroads, public transport or goods transport.

From	To	%
01.01.93	31.07.93	23
01.08.93	31.12.95	25
01.01.96	31.12.02	23
01.01.03	31.12.03	20
01.01.04	now	19

Excise Tax

From	To	SKK/litre	SKK/tonne
01.01.93	31.07.94	6.95	8 250
01.08.94	31.07.97	7.59	9 000
01.08.97	31.12.98	8.01	9 500
01.01.99	30.06.99	8.85	10 500
01.07.99	31.12.99	10.54	12 500
01.01.00	31.12.01	12.31	14 600
01.01.02	31.12.02	11.20	
01.01.03	31.07.03	11.80	
01.08.03	now	14.50	

Specifications

Density: 0.845 t/kl (assumed)

Gasoline**General Tax (VAT)**

From	To	%
01.01.93	31.07.93	23
01.08.93	31.12.95	25
01.01.96	31.12.02	23
01.01.03	31.12.03	20
01.01.04	now	19

Excise Tax**Leaded Regular**

From	To	SKK/ litre	SKK/ tonne
01.01.93	31.07.94	8.26	10 800
01.08.94	30.06.97	8.34	10 900

Leaded Regular Substitute

From	To	SKK/ litre	SKK/ tonne
01.07.97	now	See unleaded	

Unleaded

From	To	SKK/ litre	SKK/ tonne
01.01.93	31.07.94	7.18	9 390
01.08.94	30.06.97	7.5	9 800
01.07.97	31.12.98	7.88	10 300
01.01.99	30.06.99	8.64	11 300
01.07.99	31.12.99	10.17	13 300
01.01.00	31.12.01	11.78	15 400
01.01.02	31.12.02	11.80	
01.01.03	31.07.03	12.40	
01.08.03	now	15.50	

From 1 July 1997 onwards, prices and taxes in the tables for leaded refer to leaded substitute.

Specifications**Premium Unleaded 95 RON**

Quality: Benzin 95 RON/Euro Super
Density: 0.755 t/kl

Leaded Regular Substitute (3Q97 onwards)

Quality: Benzin Special

Leaded Regular (prior to 3Q97)

Quality: Benzin 91 RON
Density: 0.745 t/kl

Automotive LPG

General Tax (VAT): VAT is refunded for industry and for commercial use.

Excise Tax: As shown in the excise tax column.

NATURAL GAS**Specifications**

GCV: 8 972 kcal/m³
(15°C, 101.325 kPa, dry gas)

COAL**Specifications**

NCV: 6 023 kcal/kg (assumed)

Quality:

From	To	
01.01.89	31.12.01	Steam coal (Čierne uhlie)
01.01.02	now	Brown coal (Hnedé uhlie)

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

SPAIN

GENERAL NOTES

From 1Q93 onwards, prices refer to weekly average of the quarter. From 1Q86 to 4Q92, prices refer to the second month of each quarter. Prior to 1Q86, prices refer to the first month of each quarter. See individual products for details.

All energy prices are determined by the central government except coal prices for industry and households. No rebates are allowed on government prices.

General Tax (VAT): VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.01.86	31.12.91	12
01.01.92	31.07.92	13
01.08.92	31.12.94	15
01.01.95	now	16

Source: Ministerio de Economía.

OIL PRODUCTS

Special Tax (Renta): The Renta was regularly determined as the difference between end-use prices (less other taxes) and a unit cost that reflected the actual cost of crude oil, refining and distribution. On 10 July 1990 the Renta was abolished. From 1Q86 to 2Q90, prices and taxes shown include the Renta. Prior to 1Q86, the prices shown (but not the taxes) include the Renta.

Since 2002 the government has allowed the Regional Authorities to set an additional tax called "Impuesto sobre ventas minoristas".

Regional Authorities Tax

Region	Gasoline 97 RON EUR/litre	Gasoline 95 RON EUR/litre	Diesel Oil (EUR/litre)
Madrid	0.017	0.017	0.017
Asturias	0.024	0.024	0.020
Galicia	0.024	0.024	0.012
Cataluña	0.024	0.024	0.024

Source: Unless specified otherwise, prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

High Sulphur Fuel Oil

Excise Tax (excludes Renta)

From	To	EUR/ tonne	ESP/ tonne
01.01.86	31.12.88	0.60	100
01.01.89	31.12.92	10.22	1700
01.01.93	31.12.93	10.82	1800
01.01.94	10.01.95	12.04	2003
11.01.95	31.12.95	12.50	2080
01.01.96	31.12.97	12.92	2150
01.01.98	31.12.98	13.19	2195
01.01.99	31.12.01	13.43	2235
01.01.02	unknown	14.43	

For electricity generation, from 27 December 2001 onwards, according to Law 24/2001 (Medidas Fiscales, Administrativas y de Orden Social) the Renta for electricity generation is exempt. Prices shown also apply to the cement industry.

Specifications

Quality:	Fuel Oil No. 2
Sulphur Content:	3.5% (maximum)
Kinematic Viscosity:	37°C, 380 CST (maximum)
NCV:	9 400 kcal/kg
GCV:	9 900 kcal/kg

Low Sulphur Fuel Oil

Excise Tax: As shown in excise tax column.

Specifications

Sulphur Content:	1%
------------------	----

Light Fuel Oil

General Tax (VAT): Applies to households. See general notes for Spain.

Excise Tax (excludes Renta)

From	To	EUR/ kl	ESP/ kl
Prior to	01.01.86	see tax column	
01.01.86	31.12.88	33.66	5600
01.01.89	10.07.90	54.09	9000
11.07.90	31.12.92	60.10	10000

From	To	EUR/ kl	ESP/ kl
01.01.93	06.08.93	66.11	11000
07.08.93	10.01.95	70.92	11800
11.01.95	31.12.95	73.32	12200
01.01.96	31.12.97	75.73	12600
01.01.98	31.12.98	77.32	12865
01.01.99	31.12.01	78.71	13097
01.01.02	now	84.71	

Specifications

Quality: Gasoleo C
Density: 0.855 t/kl

Automotive Diesel Oil**Excise Tax (excludes Renta)**

From	To	EUR/ litre	ESP/ litre
Prior to	01.01.86	See tax column	
01.01.86	31.12.86	0.066	11.000
01.01.87	10.07.90	0.108	18.000
11.07.90	31.12.90	0.164	27.300
01.01.91	31.12.91	0.194	32.300
01.01.92	06.08.93	0.224	37.300
07.08.93	10.01.95	0.242	40.300
11.01.95	31.12.95	0.251	41.700
01.01.96	31.12.97	0.260	43.200
01.01.98	31.12.98	0.265	44.107
01.01.99	31.12.01	0.270	44.901
01.01.02	31.12.06	0.294	
01.01.07	now	0.302	

Specifications

Quality: Gasoleo A

Gasoline

General Tax (VAT): See general notes for Spain.

Excise Tax (excludes Renta)

Leaded Premium

From	To	EUR/ litre	ESP/ litre
Prior to	01.01.86	See tax column	
01.01.86	31.12.86	0.165	27.500
01.01.87	10.07.90	0.222	37.000
11.07.90	31.12.90	0.261	43.500
01.01.91	31.12.91	0.291	48.500
01.01.92	06.08.93	0.334	55.500
07.08.93	10.01.95	0.364	60.500
11.01.95	31.12.95	0.376	62.600
01.01.96	31.12.97	0.389	64.800
01.01.98	31.12.98	0.398	66.161

From	To	EUR/ litre	ESP/ litre
01.01.99	31.07.01	0.405	67.352
01.08.01	31.07.01	0.403	67.040

Leaded Substitute*

From	To	EUR/ litre	ESP/ litre
01.08.01	31.12.01	0.403	67.040
01.01.02	now	0.427	

Unleaded

From	To	EUR/ litre	ESP/ litre
11.07.90	31.12.90	0.231	38.500
01.01.91	31.12.91	0.261	43.500
01.01.92	06.08.93	0.304	50.500
07.08.93	10.01.95	0.334	55.500
11.01.95	31.12.95	0.346	57.500
01.01.96	31.12.97	0.358	59.500
01.01.98	31.12.98	0.365	60.750
01.01.99	31.12.01	0.372	61.844
01.01.02	now	0.396	

*From 1 August 2001 onwards, leaded gasoline became leaded substitute (Royal Decree 785/01).

Specifications

Grade and Octane: Premium Leaded 97 RON
Premium Unleaded 95 RON

Automotive LPG

Pump Prices.

Excise tax: As shown in excise tax column.

NATURAL GAS

The ex-tax price includes the excise tax (maximum 1.5% municipal tax) actually paid by the companies and not the consumers. This tax is not imposed for industrial use and electricity generation.

Specifications

GCV: 10 271 kcal/cm³

Industry

The average industrial user is based on consumption of 50 million kWh/year, contracted flow of 175 000 kWh/day with a supply pressure between 4 and 60 bars,

equivalent to 43 million thermie/year (1 thermie = 1000 kcal). Previously, the average industrial user was based on consumption of 40 million thermie/year.

Households

The average user is 12 000 kWh/year, supply pressure below 4 bars, equivalent to 10 318 thermie/year. Previously, the average industrial user was based on consumption of 10 000 thermie/year.

Electricity Generation

The national average price shown is independent of the quantity consumed.

COAL

Steam Coal for Electricity Generation

This description and the corresponding prices refer to a hypothetical coal quality that is used in Spain to compute a representative price for coal consumed.

Specifications

Ash Content:	6%
Sulphur Content:	0.8%
Water Content:	14%
NCV:	5 500 kcal/kg

Coking Coal for Industry

Market prices for coke from domestic coking plants are not available since they are all integrated parts of the steel industry.

Specifications

Quality	Standard Coal PA
Ash Content:	6%
Sulphur Content:	0.8%
Water Content:	14%

ELECTRICITY

General Tax (VAT): Applies to households. See general notes for Spain.

Special Taxes

Special Tax

From	To	%
01.01.98	now	4.864

Provincial Tax

From	To	%
Prior to 01.01.86	01.01.86	5 (of turnover tax)
01.01.86	now	abolished

Inter-provincial Compensation Tax

From	To	EUR/ kWh	ESP/ kWh
01.07.81	31.12.81	0.0010	0.17
01.01.82	31.12.82	0.0014	0.23
01.01.83	31.12.83	0.0016	0.27
01.01.84	31.12.84	0.0017	0.29
01.01.85	31.12.85	0.0021	0.35

Municipal Tax

From	To	%
01.01.78	25.09.84	1.5
26.09.84	now	Considered a cost element so not part of taxes shown but part of prices shown

Since the last modification of the Electricity Sector Law published on 5th July 2007, the Electricity tariffs are fixed by the Ministry of Industry, Tourism and Trade. Due to supply liberalisation, energy prices are not fixed for eligible customers, only rates for access to the transport and distribution network are fixed for these customers.

The calendar for electricity liberalisation, and thus the eligibility of customers, has been the following:

Date	Eligible Consumption	Law
01.01.98	15 GWh/year	Electricity Sector Law 34/1997
01.01.99	5 GWh/year	Royal Decree 2820/98
01.04.99	3 GWh/year	Royal Decree 2820/98
01.07.99	2 GWh/year	Royal Decree 2820/98
01.10.99	1 GWh/year	Royal Decree 2820/98
01.07.00	High-voltage customers (> 1kV)	RD-Law 6/1999
01.01.03	All customers eligible	RD-Law 6/2000

Households

Special Tax

Turnover Tax

From	To	%
01.01.78	31.12.83	1.5
01.01.84	31.12.85	6

Prices shown are the average of turnover tariffs.

Industry

Special Tax

Turnover Tax

From	To	%
01.01.78	31.12.83	5
01.01.84	31.12.85	6

From 2000 onwards, customers were split into two categories: those eligible customers that pay a fixed rate for access to transport and distribution network and a market-dependent component; those non-eligible customers that pay a fixed end-use price. Industry prices are calculated as the average of eligible and non-eligible consumers. Prior to 1999, prices were calculated as the average of turnover tariffs.

Sources: From 2004 onwards, Ministry of Industry, Tourism and Trade. From 1995 to 2003, *Ministry of Economy*. From 1989 to 1994, Ministerio de Industria, Comercio y Turismo, Subdirección General de Energía Eléctrica. From 1978 to 1988, UNESA, *Memoria Estadística Eléctrica*, yearly reports.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

SWEDEN

GENERAL NOTES

From 1Q94 onwards, quarterly prices refer to quarterly averages. From 1Q84 to 4Q93 prices refer to the second month of each quarter. Prior to 1Q84, prices refer to the first month of each quarter. See individual products for details.

General Tax (VAT): From 1 March 1990 onwards, applies to all energy forms (except aviation fuels). VAT is not included in the prices and taxes shown for industry, electrical generation and automotive diesel for commercial purposes because it is refunded.

From	To	%
01.03.90	30.06.90	23.46
01.07.90	now	25.00

Special Tax

NO_x Levy: From 1 January 1992 onwards, a levy of 40 SEK/kg of nitrogen oxide emissions from certain combustion plants is applied. The amounts are redistributed to those who are liable to pay according to the amount of energy produced. The levy is not included in estimated tax component shown in this context.

Sources: From 1Q93 onwards, Statistics Sweden. Prior to 1Q93, National Price and Competition Board. See individual products for exceptions.

OIL PRODUCTS

Excise Tax: Prior to 1 January 1993, an excise tax was applied to oil products. See individual product notes.

Special Taxes

Energy Tax: From 1 January 1993 onwards, the excise tax became the energy tax and was differentiated into three categories based on the maximum sulphur content (% mass content).

Category	%
Class 1 (EC1)	0.001
Class 2 (EC2)	0.005
Class 3 (EC3)	0.035

Special Tax: A special levy/fairway is applicable on all oil products, but is not included in the taxes shown.

From	To	SEK/ tonne
01.04.78	30.09.80	2
01.10.80	31.03.82	3
01.04.82	31.12.85	4
01.01.86	31.12.86	5.11 - 7.80
01.01.87	31.12.87	5.93 - 8.84
01.01.88	31.12.88	6.17 - 9.19
01.01.89	31.12.91	6.57 - 9.79
01.01.92	31.12.93	8.20 - 11.50
01.01.94	now	8.20 - 10.30

Heavy Fuel Oil for Electricity Generation

Special Tax

Sulphur Tax: For 1993, an estimate of the general sulphur tax is shown in the tax column. Charges on emissions of nitrogen oxides are not included. Ordinarily, the main parts of all volumes delivered to utilities are used for district heat generation. For this use the ex-tax price shown for 1993 is increased by the global tax amounts as shown for automotive diesel fuel (Class 3). However, the ex-tax price is not increased by the energy tax component if heat is generated in combination with electricity generation. Steam and hot water are tax-free (with the exception of VAT). From 1 January 1991 onwards, the general sulphur tax is levied on HFO for electricity generation, which is reduced if emissions are reduced by purifying.

From 1Q00 onwards, prices are no longer available. From 1Q98 to 1Q00, prices refer to heavy fuel oil delivered to utilities and used for electricity generation. From 1Q92 to 1Q98, few utilities (less than three) have monthly purchase prices for HFO. Prior to 1991, prices are exempt of all taxes as electricity is taxed separately.

Specifications

Quality: No. 5 Heavy Fuel Oil

Sulphur Content:

From	To	%
01.10.84	31.12.88	< 1% ASTM 1500s (maximum)
01.01.89	01.01.00	0.8% by weight (maximum)

Low Sulphur Fuel Oil

Special Taxes

Special Oil Tax

From	To	SEK/ kl	SEK/ tonne
01.01.78	31.12.83	see excise column	
01.01.84	31.12.90	118	122

Energy Tax

From	To	SEK/ kl	SEK/ tonne
01.11.83	31.12.86	411	437
01.01.87	30.06.87	610	649
01.07.87	30.06.88	660	702
01.07.88	30.06.89	860	891
01.07.89	31.12.90	960	995
01.01.91	31.12.92	540	560
01.01.93	now	suppressed	

CO₂ Tax

From	To	SEK/ kl	SEK/ tonne
01.01.91	31.12.92	720	746
01.01.93	31.12.93	230	238
01.01.94	31.12.94	239.25	247.90
01.01.95	31.12.95	245.50	254.40
01.01.96	31.12.96	263.50	273.06
01.01.97	30.06.97	262.50	272.03
01.07.97	31.12.98	529	548.19
01.01.99	31.12.99	525	544.04
01.01.00	31.12.00	529	548.19
01.01.01	31.12.01	535	554.40
01.01.02	31.12.02	539	558.50
01.01.03	31.12.03	544	563.73
01.01.04	31.12.04	545.58	565.37
01.01.05	31.12.05	547.9	567.63
01.01.06	now	550.8	570.63

Sulphur Tax: Applied to each 10% by weight of sulphur content exceeding 0.1% by weight.

From	To	SEK/ kl	SEK/ tonne
01.01.91	now	27	28

From 2000, prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission. For 1998 and 1999, prices are confidential. Prior to 2Q98, prices refer to the weighted average of HFO produced

by major oil companies and includes the estimated tax component.

Specifications

Quality: No. 5 Heavy Fuel Oil

Density: 0.94 t/kl

Sulphur Content:

From	To	%
01.10.84	31.12.88	< 1% ASTM 1500s (maximum)
01.01.89	31.12.99	0.8% by weight (0.5% in some cities). Usually between 0.3%-0.6% by weight.
01.01.00	now	< 0.3% by weight

Light Fuel Oil

General Tax (VAT): Applies to households. See general notes for Sweden.

Special Taxes

Energy Tax: Applies to households.

From	To	SEK/ kl
Prior to	31.12.94	see diesel
01.01.95	31.12.95	577
01.01.96	now	590

CO₂ Tax: See automotive diesel.

For industry taxes, see low sulphur fuel oil.

Prices refer to the weighted average price of LFO produced by major oil companies and include the estimated tax component.

Specifications

Quality: Eldningsolja 1 (Heating Gasoil 1)

Density: 0.845 t/kl

Sulphur Content: 0.2% by weight (maximum)*

* From 2Q87 onwards, the sulphur content must not exceed 0.2% by weight (annual average). In most cases, it does not exceed 0.1% by weight, resulting in no sulphur tax being levied.

Automotive Diesel Oil

Excise Tax: Prior to 1 January 1993, amounts are the same as heavy fuel oil for industry.

Special Taxes

Energy Tax: From 1 January 1993 onwards, the energy tax was differentiated with regard to environmental effects. The rates and categories are as follows:

From	To	SEK/ litre	SEK/ m ³
Class 1			
01.01.93	30.09.93	0.09	90
01.10.93	31.12.93	0.09	90
01.01.94	30.06.94	0.005	5
01.07.94	31.12.94	0.562	562
01.01.95	31.12.95	1.442	1 442
01.01.96	31.08.96	1.476	1 476
01.09.96	30.06.97	1.524	1 524
01.07.97	31.12.98	1.614	1 614
01.01.99	31.12.99	1.600	1 600
01.01.00	31.12.00	1.864	1 864
01.01.01	31.12.01	1.512	1 512
01.01.02	31.12.02	1.323	1 323
01.01.03	31.12.03	1.004	1 004
01.01.04	31.12.04	0.733	733
01.01.05	31.12.05	1.036	1 036
01.01.06	31.12.06	1.042	1 042
01.01.07	now	1.057	1 057
Class 2			
01.01.93	31.09.93	0.290	290
01.10.93	31.12.93	0.290	290
01.01.94	30.06.94	0.302	302
01.07.94	31.12.94	0.562	562
01.01.95	31.12.95	1.644	1 644
01.01.96	31.08.96	1.682	1 682
01.09.96	30.06.97	1.736	1 736
01.07.97	31.12.98	1.840	1 840
01.01.99	31.12.99	1.824	1 824
01.01.00	31.12.00	2.090	2 090
01.01.01	31.12.01	1.739	1 739
01.01.02	31.12.02	1.557	1 557
01.01.03	31.12.03	1.243	1 243
01.01.04	31.12.04	0.975	975
01.01.05	31.12.05	1.279	1 279
01.01.06	31.12.06	1.286	1 286
01.01.07	now	1.306	1 306
Class 3			
01.01.93	31.09.93	0.540	540
01.10.93	31.12.93	0.540	540
01.01.94	30.06.94	0.562	562
01.07.94	31.12.94	0.562	562
01.01.95	31.12.95	1.910	1 910
01.01.96	31.08.96	1.955	1 955
01.09.96	30.06.97	2.018	2 018
01.07.97	31.12.98	2.138	2 138
01.01.99	31.12.99	2.119	2 119
01.01.00	31.12.00	2.388	2 388
01.01.01	31.12.01	2.039	2 039
01.01.02	31.12.02	1.865	1 865
01.01.03	31.12.03	1.556	1 556
01.01.04	31.12.04	1.294	1 294
01.01.05	31.12.05	1.600	1 600
01.01.06	31.12.06	1.609	1 609
01.01.07	now	1.633	1 633

CO₂ Tax: From 1 January 1993 onwards, the CO₂ tax is levied at a constant rate for all three classes.

From	To	SEK/ litre	SEK/ m ³
01.01.93	31.12.93	0.920	920
01.01.94	30.06.94	0.95	957
01.07.94	31.12.94	0.957	957
01.01.95	31.12.95	0.982	982
01.01.96	31.12.96	1.054	1 054
01.01.97	30.06.97	1.050	1 050
01.07.97	31.12.98	1.058	1 058
01.01.99	31.12.99	1.049	1 049
01.01.00	31.12.00	1.058	1 058
01.01.01	31.12.01	1.527	1 527
01.01.02	31.12.02	1.798	1 798
01.01.03	31.12.03	2.174	2 174
01.01.04	31.12.04	2.598	2 598
01.01.05	31.12.05	2.609	2 609
01.01.06	31.12.06	2.623	2 623
01.01.07	now	2.663	2 663

Special Tax: Refers to a diesel tax. From 1995 onwards, amounts are included in the energy tax.

From	To	SEK/ litre	SEK/ m ³
Class 1			
01.01.93	30.06.94	1.300	1 300
01.07.94	31.12.94	0.843	843
Class 2			
01.01.93	30.06.94	1.30	1 300
01.07.94	31.12.94	1.04	1 040
Class 3			
01.01.93	31.12.94	1.30	1 300

Mileage Tax: From 1 April 1988 to 30 September 1993, prices and taxes do not include the mileage tax for diesel-engine vehicles. This tax was applied according to the motor type and vehicle weight.

From	To	SEK/ 10 km	Category
01.04.88	28.02.90	1.40	≤ 900 kg
01.03.90	30.09.93	1.65	< 900 kg
01.10.93	31.12.94	replaced by Special Tax	
01.01.95	now	included in Energy Tax	

Sulphur Tax: From 1 January 1991 onwards, a general sulphur tax is levied. For rates, see note under heavy fuel oil for industry. From 2Q87 onwards, the sulphur content of automotive diesel oil must not exceed 0.2% by weight (annual average). In most cases the sulphur

content does not exceed 0.1% by weight, resulting in no sulphur tax being levied.

From 1Q93 onwards, prices refer to the weighted average pump prices of major oil companies. Prior to 1Q93, prices refer to the major companies' list price at self-service pumps.

Gasoline

General Tax (VAT): See general notes for Sweden.

Special Taxes

Oil Fee/Tax

From	To	SEK/ litre
01.01.84	31.12.90	0.06

Gasoline and CO₂ Tax: From 1 December 1994 onwards, the gasoline tax was differentiated according to the environmental effects. Prior to 1 January 1991, taxes for leaded and unleaded gasoline were identical. Amounts in parentheses refer to the environmental category/class.

Leaded (SEK/litre)			
From	To	Gasoline Tax	CO ₂ Tax
01.01.86	06.30.87	2.29	0
01.07.87	31.03.88	2.53	0
01.04.88	31.12.89	2.78	0
01.01.90	31.12.90	3.16	0
01.01.91	30.06.91	2.64	0.58
01.07.91	31.12.92	2.68	0.58
01.01.93	31.12.93	3.65	0.74
01.01.94	30.11.94	3.65	0.77
01.12.94	31.12.94	3.71	0.77
01.01.95	31.12.95	3.81	0.79
01.01.96	31.08.96	3.90	0.86
01.09.96	30.06.97	4.03	0.86
01.07.97	31.12.98	4.27	0.86
01.01.99	31.12.99	4.23	0.85
01.01.00	31.12.00	4.27	0.86
01.01.01	31.12.01	3.92	1.24
01.01.02	now	no longer consumed	

Unleaded (SEK/litre)			
From	To	Gasoline Tax	CO ₂ Tax
01.01.86	06.30.87	2.13	0
01.07.87	31.03.88	2.33	0
01.04.88	31.12.89	2.58	0
01.01.90	31.12.90	2.92	0
01.01.91	30.06.91	2.40	0
01.07.91	31.12.92	2.37	0.58
01.01.93	31.12.93	3.14	0.74
01.01.94	30.11.94	3.14	0.77

From	To	Gasoline Tax	CO ₂ Tax
01.12.94	31.12.94	3.14 (2)	0.77
		3.20 (3)	0.77
01.01.95	31.12.95	3.22 (2)	0.79
		3.28 (3)	0.79
01.01.96	31.08.96	3.30 (2)	0.86
		3.36 (3)	0.86
01.09.96	30.06.97	3.41 (2)	0.86
		3.47 (3)	0.86
01.07.97	31.12.98	3.61 (2)	0.86
		3.68 (3)	0.86
01.01.99	31.12.99	3.58 (2)	0.85
		3.65 (3)	0.85
01.01.00	31.12.00	3.61 (2)	0.86
		3.68 (3)	0.86
01.01.01	31.12.01	3.26 (1)	1.24
		3.29 (2)	1.24
01.01.02	31.12.02	3.16 (1)	1.46
		3.19 (2)	1.46
01.01.03	31.12.03	2.94 (1)	1.77
		2.97 (2)	1.77
01.01.04	31.12.04	2.68 (1)	2.11
		2.71 (2)	2.11
01.01.05	31.12.05	2.84 (1)	2.12
01.01.06	31.12.06	2.86 (1)	2.13
01.01.07	now	2.90 (1)	2.16

From 1Q93 onwards, prices refer to the weighted average pump price of major oil companies. Prior to 1Q93, the prices refer to the major companies' list price at self-service pumps.

Specifications

Premium Unleaded 98 RON gasoline
Quality: Bensin 98 oktan, blyfri

Premium Leaded 98 RON

Lead Content: 0.15 g/litre

Premium Leaded 98 RON has not been sold since 28 February 1995. Between 1995 and 2001, leaded replacement gasoline was sold.

COAL

Steam Coal for Industry

Special Taxes

Coal Use Tax

From	To	SEK/ tonne
01.01.84	01.01.91	10

Energy Tax

From	To	SEK/ tonne
01.04.83	31.12.86	140
01.01.87	30.06.88	305
01.07.88	30.06.89	400
01.07.89	31.12.90	450
01.01.91	31.12.92	230
01.01.93	now	suppressed

CO₂ Tax

From	To	SEK/ tonne
01.01.91	31.12.92	620
01.01.93	31.12.93	200
01.01.94	31.12.94	208
01.01.95	31.12.95	213.50
01.01.96	31.12.96	229
01.01.97	30.06.97	228.25
01.07.97	31.12.98	460
01.01.99	31.12.99	456
01.01.00	31.12.00	460
01.01.01	31.12.01	465
01.01.02	31.12.02	469
01.01.03	now	473

Sulphur Tax

From	To	SEK/ tonne
01.01.91	now	30 for every 10% by weight of sulphur

Steam Coal for Electricity Generation**Special Taxes***Energy Tax*

From	To	SEK/ tonne
Prior to	01.01.93	see industry
01.01.93	31.12.93	230
01.01.94	31.12.94	239
01.01.95	31.12.95	245
01.01.96	31.12.96	251
01.01.97	30.06.97	278
01.07.97	31.12.98	316
01.01.99	31.12.99	313
01.01.00	31.12.00	316
01.01.01	31.12.01	293
01.01.02	31.12.02	301
01.01.03	now	307

CO₂ Tax

From	To	SEK/ tonne
01.01.93	31.12.93	800
01.01.94	31.12.94	832
01.01.95	31.12.95	845
01.01.96	31.12.96	916
01.01.97	30.06.97	913
01.07.97	31.12.98	920
01.01.99	31.12.99	912
01.01.00	31.12.00	920
01.01.01	31.12.02	1 564
01.01.02	31.12.02	1 564
01.01.03	now	1 892

Sulphur Tax

From	To	SEK/ tonne
01.01.93	now	30 for every 10% by weight of sulphur

Steam Coal for Households

This series has been discontinued.

Specifications

Delivery Size: 10/30 mm

Coking Coal for Industry

From 2Q90 onwards, this series has been discontinued. Prior to 2Q90, prices refer to monthly average unit import price (CIF) for the second month of each quarter.

NCV: 6454 kcal/t (2003 average)

Source: Customs administration.

ELECTRICITY

General Tax (VAT): Applies to households. See general notes for Sweden.

Electricity**Special Taxes**

Energy Tax (SEK/kWh): The lower value under category "Household and Commercial" is valid for some municipalities in the north of Sweden while the higher tax is valid for the rest of the country. Approximately 9 per cent of the households are subject to the lower tax while the rest, 91 per cent, are subject to the higher rate.

From	To	Industry		Household and Commercial
		< 40 MWh/ year	Add. Con- sumption	
20.03.77	20.12.79	0.03	0.02	0.03
21.12.79	30.06.81	0.04	0.03	0.04
01.07.81	31.12.83	0.04	0.03	0.03-0.04
01.01.84	30.11.84	0.052	0.03	0.042-0.052
01.12.84	31.12.86	0.072	0.05	0.062-0.072
01.01.87	30.06.89	0.05	0.05	0.062-0.072
01.07.89	28.02.90	0.07	0.07	0.082-0.092
01.03.90	31.12.92	0.05	0.05	0.022-0.072
01.01.93	31.12.93	0	0	0.035-0.085
01.01.94	31.12.94	0	0	0.036-0.088
01.01.95	31.12.95	0	0	0.037-0.090
01.01.96	31.08.96	0	0	0.043-0.097
01.09.96	30.06.97	0	0	0.058-0.113
01.07.97	31.12.97	0	0	0.082-0.138
01.01.98	31.12.98	0	0	0.096-0.152
01.01.99	31.12.99	0	0	0.095-0.151
01.01.00	31.12.00	0	0	0.106-0.162
01.01.01	31.12.01	0	0	0.125-0.181
01.01.02	31.12.02	0	0	0.140-0.198
01.01.03	31.12.03	0	0	0.168-0.227
01.01.04	31.12.04	0.005	0.005	0.181-0.241
01.01.05	31.12.05	0.005	0.005	0.194-0.254
01.01.06	31.12.06	0.005	0.005	0.201-0.261
01.01.07	now	0.005	0.005	0.204-0.265

Prices refer to annual average ex-tax revenues per kWh received by all public utilities from total deliveries to manufacturing industry, mining, and quarrying (industry), and from low-voltage deliveries to households and commerce (households). Latest data are derived from the most actual annual statistics on revenues by using

producer price index on electricity (industry) and consumer price index on electricity (households).

Source: Statistics Sweden.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Sources: Statistics Sweden. Except for natural gas which is from Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: PPI for domestic supply.

Retail: Weighted average of heating oil (LFO) and gasoline.

Electricity

Retail: Electricity.

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Wholesale: coal import price index based on energy content.

SWITZERLAND

GENERAL NOTES

From 1Q93 onwards, prices refer to the monthly averages of the quarter. From 1Q86 up to 4Q92, prices refer to the second month of each quarter. From 1Q83 to 4Q85, prices refer to the first month of the quarter. Prior to 1Q83, prices refer to quarterly averages. See individual products for details.

General Tax (VAT): From 1 January 1995 onwards, VAT replaced the Turnover Tax, which was levied only on gasoline and diesel. VAT is not included in energy prices for industry and automotive diesel for commercial use because it is refunded.

From	To	%
01.01.95	31.12.98	6.5
01.01.99	31.12.00	7.5
01.01.01	now	7.6

Special Tax: Prices do not include duties for non-governmental energy research funds.

OIL PRODUCTS

Oil Emergency Reserves

Compulsory stocks of oil products are held by oil companies under governmental control, in order to face supply disruptions that the private economy cannot cope with. Corresponding costs (hereafter: Emergency fund) are financed by final consumers.

Incentive Tax on Sulphur

From 1 January 2004 onwards, an incentive tax of 0.03 CHF/litre was levied on motor fuels containing more than 0.001% sulphur. According to the Federal Finances Administration, this tax revenue is negligible and will be reimbursed to the consumer through the medium of health insurance. Since 1 January 2005, the sulphur limit for both gasoline and diesel is 0.005%.

“Climate cent” on motor fuel oils

From 1 October 2005 onwards, a surcharge of 0.015 CHF/litre is levied on gasoline and diesel by the “Climate Change” Foundation of the Swiss Oil Association. The revenues from this surcharge will serve for domestic and foreign emission-mitigating projects as

well as to purchase international CO₂-emissions certificates. If the system proves its effectiveness by the end of 2007, it will avoid the introduction of a CO₂ tax on motor fuels. This surcharge is not included in fuel oil taxes below since it is levied by a private body on a non-governmental basis.

Sources: Federal Office of Statistics. Data published: Federal Dept. of Economic Affairs, *La Vie Economique*, Monthly Bulletin. See individual products for exceptions.

Low Sulphur Fuel Oil

Excise Tax

From	To	CHF/tonne
01.01.78	26.02.86	3.80
27.02.86	10.06.86	47.60
11.06.86	30.06.95	3.80
01.07.95	31.12.96	3.70
01.01.97	now	3.60

Special Tax

Emergency Fund

From	To	CHF/tonne
Prior to	31.12.93	see LFO
01.01.94	31.12.94	13.85
01.01.95	31.12.95	14.00
01.01.96	31.12.96	13.85
01.01.97	31.12.97	9.87
01.01.98	31.12.00	8.95
01.01.01	31.12.01	6.80
01.01.02	31.12.04	5.25
01.01.05	31.12.05	3.66
01.01.06	31.12.06	1.12
01.01.07	now	1.11

From January 1993 onwards, prices refer to the Zurich area "at-the-door" price (all expenses included). Prior to December 1992, data shown are Swiss average prices.

Specifications

Sulphur Content: 1%

Source: From 1 January 1993 onwards, price transmitted by the oil industry and previously by the Federal Office of Statistics.

Light Fuel Oil

General Tax (VAT): Applies to households only. See general notes for Switzerland.

Excise Tax

From	To	CHF/ kl	CHF/ tonne
01.01.78	26.02.86	3.18	3.80
27.02.86	10.06.86	3.89	4.76
11.06.86	30.06.95	3.13	3.80
01.07.95	31.12.96	3.05	3.70
01.01.97	now	3.00	3.55

Special Tax*Emergency Fund*

From	To	CHF/ kl	CHF/ tonne
01.01.78	31.12.85	21.16	25.25
01.01.86	30.06.86	17.81	21.25
01.07.86	30.09.86	16.97	20.25
01.10.86	31.12.89	18.06	21.55
01.01.90	31.12.90	26.23	31.30
01.01.91	31.12.91	24.80	30.10
01.01.92	31.12.92	23.98	29.10
01.01.93	31.12.93	19.78	24.00
01.01.94	31.12.94	16.69	20.25
01.01.95	31.12.95	16.80	20.40
01.01.96	31.12.96	17.10	20.20
01.01.97	31.12.97	13.10	15.50
01.01.98	31.12.00	10.60	12.42
01.01.01	31.12.01	8.05	9.53
01.01.02	31.12.03	6.05	7.16
01.01.04	31.12.04	6.20	7.34
01.01.05	31.12.06	4.20	4.97
01.01.07	now	1.05	1.24

From 1Q94 onwards, data shown are wholesale average prices, which are approximately 5% lower than in previous quarters. A continuous series could be estimated by multiplying prices prior to 1Q94 by 0.95. Prior to 1Q94, data refer to the national average prices for all lots larger than 20 kl/year.

For households, reported data are average prices for representative lots of 3 – 6 kilolitres.

Specifications

Quality:	Heizöl extra-leicht/ Huile extra-légère (mazout)
Density:	0.845 t/kl (1Q96 onwards) 0.824 t/kl (prior to 1Q96)
Sulphur Content:	< 0.2%

Automotive Diesel

General Tax (VAT): Applies to non-commercial use. See rates for gasoline.

Excise Tax

From	To	CHF/ litre	CHF/ tonne
01.01.78	31.09.85	0.553	672.35
01.10.85	07.03.93	0.557	667.00

From	To	CHF/ litre	CHF/ tonne
08.03.93	30.06.95	0.759	908.64
01.07.95	31.12.96	0.754	903.20
01.01.97	now	0.759	908.98

Special Tax*Emergency Fund*

From	To	CHF/ litre	CHF/ tonne
01.01.83	31.12.83	0.0138	16.75
01.01.84	31.12.84	0.0121	14.75
01.01.85	31.12.85	0.0142	17.29
01.01.86	30.06.86	0.0130	15.79
01.07.86	30.09.86	0.0124	14.75
01.10.86	31.12.86	0.0135	16.09
01.01.87	31.12.88	0.0120	14.34
01.01.89	31.12.89	0.0109	13.09
01.01.90	31.12.90	0.0153	18.34
01.01.91	31.12.91	0.0171	20.54
01.01.92	31.12.92	0.0162	19.50
01.01.93	31.12.93	0.0129	15.50
01.01.94	31.12.94	0.0115	13.80
01.01.95	31.12.95	0.0104	12.45
01.01.96	31.12.96	0.0129	15.45
01.01.97	31.12.97	0.0131	15.69
01.01.98	31.12.00	0.0106	12.69
01.01.01	31.12.01	0.0081	9.64
01.01.02	31.12.03	0.0061	7.31
01.01.04	31.12.04	0.0062	7.43
01.01.05	31.12.06	0.0042	5.03
01.01.07	now	0.01205	14.43

From 1Q95 onwards, diesel prices for commercial use do not include VAT as it is refunded but up to 4Q94 they included the turnover tax which was not refunded.

For commercial use, data shown are average prices paid for bulk deliveries. Diesel used by non-commercial consumers exceeds 10% of all diesel sold.

Specifications

Density:	0.835 t/kl
Sulphur Content:	

From	To	%
01.01.94	31.12.99	0.05
01.01.00	31.12.04	0.035
01.01.05	now	0.005

Gasoline

General Tax (Turnover Tax): This tax was in force until 1994.

From	To	%
01.01.78	30.09.82	5.6
01.10.82	31.12.94	6.2

General Tax (VAT): Replaces the Turnover Tax since 1 January 1995. See general notes for Switzerland.

Special Tax

Emergency Fund

From	To	CHF/ litre
01.01.83	31.12.83	0.0154
01.01.84	31.12.84	0.0132
01.01.85	31.12.85	0.0145
01.01.86	30.06.86	0.0156
01.07.86	30.09.86	0.0149
01.10.86	31.12.87	0.0159
01.01.88	31.12.89	0.0127
01.01.90	31.12.90	0.0157
01.01.91	31.12.91	0.0229
01.01.92	31.12.92	0.0212
01.01.93	31.12.93	0.0185
01.01.94	31.12.94	0.0177
01.01.95	31.12.95	0.0212
01.01.96	31.12.96	0.0189
01.01.97	31.12.97	0.0171
01.01.98	31.12.00	0.0150
01.01.01	31.12.01	0.0130
01.01.02	31.12.02	0.0094
01.01.03	31.12.03	0.0058
01.01.04	31.12.04	0.0062
01.01.05	31.12.06	0.0042
01.01.07	now	0.00405

Excise Tax

Premium Leaded

From	To	CHF/ litre
01.01.78	31.09.85	0.529
01.10.85	31.12.88	0.549
01.01.89	31.12.91	0.569
01.01.92	07.03.93	0.586
08.03.93	31.12.93	0.788
01.01.94	30.06.95	0.800
01.07.95	31.12.96	0.795
01.01.97	31.12.97	0.799
01.01.98	31.12.99	0.807
01.01.00	now	prohibited

Premium Unleaded: 98 and 95 RON

From	To	CHF/ litre
01.10.85	31.12.88	0.468
01.01.89	31.12.91	0.489
01.01.92	07.03.93	0.505
08.03.93	31.12.93	0.707
01.01.94	30.06.95	0.719
01.07.95	31.12.96	0.715
01.01.97	31.12.97	0.719
01.01.98	31.12.99	0.727
01.01.00	now	0.731

From 1 January 2000 onwards, the sale of leaded gasoline is prohibited.

Specifications

Grade and Octane:	Premium Leaded 98 RON Premium Unleaded 98 RON Premium Unleaded 95 RON
Lead Content:	0.15 g/litre
Benzene Content:	1% (maximum)
Density:	0.744 t/kl

NATURAL GAS

General Tax (VAT): Applies to households. See general notes for Switzerland.

Excise Tax

From	To	CHF/ 10 ⁷ kcal	CHF/ tonne
01.01.78	26.02.86	1.90	2.06
27.02.86	10.06.86	19.00	20.60
11.06.86	30.06.95	1.86	2.06
01.07.95	31.12.96	1.80	2.00
01.01.97	now	1.89	2.10

Special Taxes

Emergency Fund: Since no gas can be stored in Switzerland, the Swiss gas industry has a legal obligation to bare a share of the costs of holding light fuel oil emergency stocks. The annual contribution is based on the total quantity of gas consumed and is included in both prices and taxes shown.

Year	CHF/ 10 ⁷ kcal	CHF/ kWh
1986	0.9	0.008
1987	2.4	0.021
1988	2.1	0.018
1989	2.4	0.021
1990	3.5	0.03
1991	2.9	0.025
1992	4.1	0.035
1993	3.4	0.029
1994	3.7	0.032
1995	2.8	0.024
1996	2.1	0.018
1997	2.4	0.021
1998	2.3	0.02
1999	1.6	0.014
2000	1.4	0.012
2001	2.85	0.0245
2002	2.5	0.0215
2003	1.88	0.0162
2004	1.85	0.0159
2005	1.7	0.0146
2006	2.21	0.019

SpecificationsGCV: 9 560 kcal/m³**Source:** Swiss Federal Office of Statistics.**Industry**

Tariffs refer to annual consumption of 11.63 GWh, maximum load 6 000 kWh, (interruptible contract). Larger consumers (more than 50 GWh per year), negotiate tariffs which are approximately 25% lower.

Households

Tariffs refer to annual consumption of 20 MWh and apply to space heating (gas boilers with a maximum load of 15 kW) together with water heating and cooking. The tariff for "cooking only" (annual consumption of approximately 1 000 kWh) is 3.5 times higher.

COAL

General Tax (VAT): Applies to households. See general notes for Switzerland.

Excise Tax

From	To	CHF/ tonne
01.01.78	30.06.95	1.03
01.07.95	31.12.96	1.00
01.01.97	31.12.98	0.90
01.01.99	now	0

Prices refer to the first month of each quarter. The share of coal use is very small. Most steam coal is used by the cement industry.

Steam Coal for Industry**Special Tax***Emergency Fund*

From	To	CHF/ tonne
01.01.82	31.12.89	18.0
01.01.90	30.06.92	11.0
01.07.92	30.06.93	6.0
01.07.93	31.12.95	3.0
01.01.96	31.12.96	1.0
01.01.97	now	0

From 1998 onwards, the Federal government removed the obligation to maintain coal emergency stocks.

Specifications

Quality: Finekohle

Size: 0 - 50 mm

NCV: 6 000 kcal/kg (cement industry)

Source: Transmitted by the coal industry.**Coal for Households**

From 3Q93 onwards, this series has been discontinued.

Special Tax*Emergency Fund*

From	To	CHF/ tonne
01.01.82	31.12.96	19.0

Specifications

Quality: Lignite

Sources: Telephone survey. Data published: Federal Department for Economic Affairs, *La Vie Economique*, Monthly Bulletin.

Coking Coal**Special Tax***Emergency Fund*

From	To	CHF/ tonne
01.01.82	31.12.96	19.0

From 1Q90 onwards, this series is discontinued due to a lack of consumers (factories switching to natural gas). Prior to 1Q90, prices refer to coal used mainly used in the paper and machine industries.

Specifications

Quality: Nusskohle

Size: 10, 20, and 30 mm

NCV: 7 200 kcal/kg

ELECTRICITY

General Tax (VAT): Applies to households. See general notes for Switzerland.

Source: Federal Office of Statistics, which publishes the tariffs shown.

Industry

From 2000 onwards, prices refer to consumption of 10 - 20 000 MWh. Tariffs for larger consumers (more

than 20 GWh per year), are at least 0.02 CHF/kWh less. Average annual prices for the previous year are collected each February. Therefore, prices for the most recent year are provisional. Prior to 1998, tariffs refer to annual consumption of 15 000 MWh, maximum load 5 000 kWh.

Households

Tariffs refer to consumption of 4.5 MWh/year.

From June 2000 onwards, the definitions of the different categories of consumers have been changed, notably in order to take into account people's growing preference for larger apartments. This leads to a typical electricity tariff for households which is about 7% lower than the preceding one.

ENERGY PRICE INDICES

From 1986 onwards, annual indices are quarterly averages. Previously they were 12-month averages.

From 1Q93 onwards, quarterly indices refer to the three-month average of the quarter. From 1Q86 to 4Q92, indices refer to the second month of the quarter. Prior to 1Q86, indices refer to the first month of each quarter.

Source: Correspondence with the Federal Energy Office.

Oil products

Indices are calculated from 1993 onwards, and are based on the weighted average of heating oil (LFO), gasoline and diesel for both wholesale and retail.

TURKEY

General Notes

Apart from oil products, all energy prices are determined by the Turkish government.

From 1Q88 onwards, prices refer to the monthly averages of the quarter. Prior to 1Q88, prices refer to the second month of the quarter. See individual products for exceptions.

General Tax (VAT): A value-added tax was introduced in 1986. Unless specified otherwise, VAT applies to household (or non-commercial) use. See individual product descriptions.

Source: Ministry of Energy and Natural Resources, Ankara.

OIL PRODUCTS

General Tax (VAT)

From	To	%
01.01.86	31.12.87	10
01.01.88	30.11.88	12
01.12.88	14.10.90	10
15.10.90	30.11.90	11
01.12.90	31.12.91	12
01.01.92	28.02.92	13.5
29.02.92	31.10.93	13
01.11.93	31.01.00	15
01.02.00	31.01.01	17
01.02.01	now	18

Excise Tax

Fuel Consumption Tax (FCT): Amounts in the excise tax column include the FCT and special taxes. See individual products.

Special Tax

Fuel Price Stabilisation Fund (FPSF): This fund was established by Decree 98/10745 on 1 July 1998 and is financed through a compensatory FPSF tax. The rate fluctuates and is inversely proportional to developments in international oil prices (CIF Mediterranean price) and the exchange rate of the Turkish lira against the dollar. The FPSF does not

apply to fuels used in generating electricity. In 1999 and early 2000, the FPSF was only applied to diesel, and the rate was approximately 1% of the end-user price. Amounts are included in the excise tax column.

From 1989 onwards, prices are determined by refineries, importing companies and distributing companies. Prices shown are for Ankara.

High Sulphur Fuel Oil

General Tax (VAT): See oil products.

Excise Tax: As shown in excise column.

Specifications

Quality:	No. 6 Fuel Oil
Density:	0.97 t/kl
NCV:	9 600 kcal/kg

Light Fuel Oil

General Tax (VAT): See oil products.

Excise Tax: As shown in excise column.

Specifications

Quality:	No. 1 Light Fuel, Gazyagi
Density:	0.80 t/kl
NCV:	10 450 kcal/kg

Automotive Diesel Oil

General Tax (VAT): See oil products.

Excise Tax: As shown in excise column.

Specifications

Quality:	Motorin
Density:	0.85 t/kl
NCV:	10 350 kcal/kg

Gasoline

General Tax (VAT): See oil products.

Excise Tax: As shown in excise column.

Specifications

Premium Leaded 95 RON

Density:	0.76 t/kl (at 15 °C)
Lead Content:	0.84 g/litre
Sulphur Content:	0.15%
NCV:	10 700 kcal/kg

Premium Unleaded 95 RON

Density:	0.775 t/kl (at 15 °C)
Lead Content:	0.013 g/litre
Sulphur Content:	0.10%
NCV:	10 700 kcal/kg

Automotive LPG

General Tax (VAT): See oil products.

Excise Tax: As shown in excise column.

NATURAL GAS**General Tax (VAT)**

From	To	%
01.01.88	31.12.90	5
01.01.91	30.10.93	6
01.11.93	31.12.00	8
01.01.01	31.01.01	17
01.02.01	now	18

Specifications

GCV:	9 155 kcal/m ³
NCV:	8 250 kcal/m ³

COAL**General Tax (VAT)**

From	To	%
01.01.92	30.10.93	12
01.11.93	31.01.00	15
01.02.00	31.01.01	17
01.02.01	now	18

Coal prices are set annually by the TKI and TTK (government).

Steam Coal

Prices refer to lignite, which is the predominant type of coal produced and consumed. Prior to 1992, taxes are not included in the prices.

Specifications

Quality:	Lignite
NCV:	4 250 kcal/kg (industry)
	4 250 kcal/kg (households)
	2 000 kcal/kg (electricity)

Coking Coal

Prices refer to domestic hard coal with coke qualities.

Specifications

NCV:	6 100 kcal/kg
------	---------------

ELECTRICITY**General Tax (VAT)**

From	To	%
01.01.85	30.11.86	10
01.12.86	31.12.87	12
01.01.88	14.10.90	10
15.10.90	30.11.90	11
01.12.90	30.10.93	12
01.11.93	31.01.00	15
01.02.00	31.01.01	17
01.02.01	now	18

From 1Q2005 onwards, the electricity excise taxes include an energy fund of 1% and a Turkish Radio and Television Corporation fund of 2% for both industry and household sectors. Prior to the 4Q2007 edition, these funds were included within the ex-tax price component.

Industry

Excise Tax: 1%.

Prices shown for the industrial sector are single-rate tariffs. There is also a two-rate tariff for peak-period and non-peak-period consumption that is approximately 10% less expensive.

Households

Excise Tax: 5%.

Prices shown for households are tariffs for the following monthly consumption rates:

As of	Consumption Rate
3Q84	≤ 60 kWh
1Q85	≤ 90 kWh
2Q85	≤ 150 kWh
1Q90	≤ 120 kWh
1Q94	suppressed

ENERGY PRICE INDICES

Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to the three-month average. Prior to 1Q93, quarterly indices refer to the second month of each quarter.

Sources: Prime Ministry State Institute of Statistics, *Wholesale and Consumer Price Indices*, monthly. Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: Published as chemicals, petroleum products.

Retail: From 1Q2006 onwards, HICP, Fuels and lubricants for personal transport equipment (cp0722). Prior

to 1Q2006, weighted average of HICP, Liquid fuels (CP0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Wholesale: Published as electricity.

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Wholesale: Published as coal mining.

Retail: HICP, Solid fuels (cp0454).

UNITED KINGDOM

GENERAL NOTES

From 1Q93 onwards, quarterly prices refer to the average of the three mid-month prices. From 1Q85 to 4Q92, prices refer to the second month of each quarter. Prior to 1Q85, prices refer to the first month of the quarter.

General Tax (VAT): See individual products for details. VAT is not included in prices and taxes shown for industry, electricity generation and automotive diesel (for commercial use) because it is refunded.

Special Tax

Climate Change Levy: From April 2001 onwards, this levy is payable by industrial consumers of gas, electricity, coal, coke and LPG. Discounts and exemptions are available, depending on the source and use of the fuel. See individual products for details.

Source: Unless specified otherwise, source is Department for Business, Enterprise & Regulatory Reform's publication *Quarterly Energy Prices*. The tables are available online at the BERR web site www.berr.gov.uk/energy/statistics/publications/prices/. Please see individual product notes for references to specific tables or methodology.

OIL PRODUCTS

High Sulphur Fuel Oil

Excise Tax (Hydrocarbon Tax): As shown in excise tax column.

From November 2002 onwards, high sulphur fuel oil prices are no longer available. For 4Q02, the retail price 150.98 GBP/tonne is a mixture of high and low sulphur prices.

The duty rate for low sulphur fuel oil in 2005 is 49.91 GBP/tonne.

Specifications

Quality:	Heavy Fuel Oil, Class G
Density:	0.98 t/kl
Sulphur Content:	2 - 3.0%
Delivery Size:	< 24 000 t/year
NCV:	9 870 kcal/kg

Source: Department for Business, Enterprise & Regulatory Reform, following specification of EC decision 26 January 1997. Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Heavy Fuel Oil for Electricity Generation

Price shown is the annual average expenditure per tonne incurred by electric power stations for all grades and delivery sizes of heavy fuel oil. The price of fuel used to initiate combustion of heavy fuel has not been incorporated in the series.

Source: Quarterly survey carried out among electric power companies. See general notes for the United Kingdom.

Light Fuel Oil for Industry

Excise Tax (Hydrocarbon Tax): As shown in excise tax column.

Prices refer to the average quarterly expenditure per kilolitre by the manufacturing industry.

Specifications

Quality:	Heating Gasoil, Class D
Density:	0.847 t/kl
NCV:	10 260 kcal/kg

Sources: From 1989 onwards, quarterly survey among some 1 200 sites including the small and medium-sized purchasers. Prior to 1989, survey of 800 large users of energy in the manufacturing industry. See general notes for the United Kingdom.

Light Fuel Oil for Households

General Tax (VAT)

From	To	%
Prior to	01.04.94	exempt
01.04.94	31.08.97	8
01.09.97	now	5

Excise Tax (Hydrocarbon Tax)

From	To	GBP/kl
01.01.78	29.11.93	see tax column
30.11.93	28.11.94	16.40
29.11.94	27.11.95	21.40
28.11.95	25.11.96	23.30
26.11.96	01.07.97	25.00
02.07.97	16.03.98	25.80
17.03.98	08.03.99	28.20
09.03.99	20.03.00	30.30

From	To	GBP/ kl
21.03.00	08.04.03	31.30
09.04.03	02.12.04	42.20
03.12.04	05.12.05	52.20
06.12.05	06.12.06	64.40
07.12.06	30.09.07	76.90
01.10.07	now	96.90

Source: See general notes for the United Kingdom.

Automotive Diesel Oil

General Tax (VAT): Applies to households.

From	To	%
01.01.78	16.06.79	8
17.06.79	31.03.91	15
01.04.91	now	17.5

Excise Tax (Hydrocarbon Tax): As shown in excise tax column.

Prices refer to pump prices.

Specifications

Quality: Gasoil Ultra Low Sulphur Diesel,
Class A
Density: 0.845 t/kl

Source: See general notes for the United Kingdom.

Gasoline

General Tax (VAT)

From	To	%
01.01.78	16.06.79	8
17.06.79	31.03.91	15
01.04.91	now	17.5

Excise Tax (Hydrocarbon Tax)

Premium Leaded/Lead Replacement

From	To	GBP/ litre
17.03.87	14.03.88	0.1938
15.03.88	13.03.89	0.2044
14.03.89	19.03.90	0.2044
20.03.90	18.03.91	0.2248
19.03.91	09.03.92	0.2585
10.03.92	21.03.93	0.2739
22.03.93	29.11.93	0.3058
30.11.93	28.11.94	0.3314
29.11.94	31.12.94	0.3526
01.01.95	27.11.95	0.3614
28.11.95	25.11.96	0.3912
26.11.96	01.07.97	0.4168
02.07.97	16.03.98	0.4510
17.03.98	08.03.99	0.4920

From	To	GBP/ litre
09.03.99	30.09.99	0.5288
01.10.99	20.03.00	0.4921
21.03.00	06.03.01	0.5089
07.03.01	14.06.01	0.4682
15.06.01	30.09.03	0.4882
01.10.03	31.03.04	0.5019
01.04.04	now	0.4710

Premium Unleaded 95 RON

From	To	GBP/ litre
17.03.87	13.03.89	0.1842
14.03.89	19.03.90	0.1772
20.03.90	18.03.91	0.1949
19.03.91	09.03.92	0.2241
10.03.92	21.03.93	0.2342
22.03.93	29.11.93	0.2576
30.11.93	28.11.94	0.2832
29.11.94	31.12.94	0.3044
01.01.95	27.11.95	0.3132
28.11.95	25.11.96	0.3430
26.11.96	01.07.97	0.3686
02.07.97	16.03.98	0.4028
17.03.98	08.03.99	0.4399
09.03.99	20.03.00	0.4721
21.03.00	06.03.01	0.4882
07.03.01	14.06.01	0.4682

Ultra Low-Sulphur Petrol

From	To	GBP/ litre
07.03.01	30.09.03	0.4582
01.10.03	06.12.06	0.4710
07.12.06	30.09.07	0.4835
01.10.07	now	0.5035

Super Unleaded 97 RON

From	To	GBP/ litre
17.03.87	27.11.95	see tax column
28.11.95	14.05.96	0.3430
15.05.96	25.11.96	0.3762
26.11.96	01.07.97	0.4018
02.07.97	16.03.98	0.4360
17.03.98	08.03.99	0.4876
09.03.99	30.09.99	0.5233
01.10.99	20.03.00	0.4921
21.03.00	06.03.01	0.5089
07.03.01	14.06.01	0.4682
15.06.01	30.09.03	0.4882
01.10.03	31.03.04	0.5019
01.04.04	06.12.06	0.4710
07.12.06	30.09.07	0.4835
01.10.07	now	0.5035

Prices refer to the average pump price.

From 4Q99 onwards, prices for premium leaded refer to lead replacement petrol (LRP). From 2Q01 onwards, excise taxes for premium unleaded 95 RON gas refers to Ultra Low-Sulphur Petrol.

Specifications

Grade and Octane: Premium Leaded 97 RON 4 Star (prior to 4Q99)
Leaded Replacement 97/98 RON (4Q99 onwards)
Premium Unleaded 95 RON (prior to 2Q01)
Ultra Low Sulphur Petrol 95 RON (2Q01 onwards)
Super Unleaded 97 RON

Density: 0.736 - 0.739 t/kl

Source: See general notes for the United Kingdom.

NATURAL GAS

Specifications

GCV: 8 400 kcal/m³

Industry

Prices refer to average revenues per 10⁷ kcal received by all public utilities from industry.

Special Tax

Climate Change Levy: From April 2001 onwards, this levy amounts to 0.0015 GBP/kWh. Discounts and exemptions are available, depending on the source and use of the fuel.

Source: Quarterly average expenditure incurred by 1200 large users of energy in the manufacturing industry (800 sites, including small and medium sized purchasers). See general notes for the United Kingdom.

Electricity Generation

Prices refer to the average annual expenditure of electric power plants on gas purchased from public supply. Prices for 1990 to 1992 are confidential.

Source: Quarterly survey among the major power plants. See general notes for the United Kingdom.

Households

General Tax (VAT)

From	To	%
01.04.94	31.08.97	8
01.09.97	now	5

Base price levels are calculated as the average unit cost per 10⁷ kcal of gas sold to the domestic sector by gas suppliers (including standing charges). These prices are collected from inquiries to the gas suppliers. Quarter-to-quarter and annual movements are calculated using the retail prices index for gas.

COAL

Steam Coal for Industry

Special Tax

Climate Change Levy: From April 2001 onwards, this levy amounts to 11.70 GBP per tonne. Discounts and exemptions are available, depending on the source and the use of the fuel.

Prices refer to the average quarterly expenditure per tonne for all grades of coal purchased by large fuel consumers in the manufacturing industry (except iron and steel).

Specifications:

Sulphur Content: 0.5 - 2.6%
Ash Content: 3 - 19% (all industries)
18% (cement industry)
Water Content: 3 - 19%
GCV: 5 280 - 7 930 kcal/kg

Source: See general notes for the United Kingdom.

Steam Coal for Electricity Generation

Prices refer to the average quarterly expenditure of electric power plants on all grades of steam coal.

Specifications

NCV: 5 653 kcal/kg

Source: Quarterly survey among the major power plants. See general notes for the United Kingdom.

Coal for Households

General Tax (VAT)

From	To	%
01.04.94	31.08.97	8
01.09.97	now	5

Price shown is a national base-weighted average price using average prices charged by merchants of each area for household coal deliveries.

Source: Independent coal producers.

ELECTRICITY

Industry

Special Tax

Climate Change Levy: From April 2001 onwards, this levy amounts to 0.0043 GBP/kWh. However, discounts and exemptions are available depending on the source and use of the fuel.

Prices refer to average revenues per kWh received by all public utilities from all industrial sectors (factories).

Sources: From 1989 onwards, quarterly survey among 1 200 sites including small and medium-sized purchasers. Prior to 1989, survey covered 800 large users of energy in the manufacturing industry. See general notes for the United Kingdom.

Households

General Tax (VAT)

From	To	%
01.04.94	31.08.97	8
01.09.97	now	5

Base price levels are calculated as the average unit cost per kWh of electricity sold to the domestic sector by electricity suppliers (including standing charges). These data are collected from inquiries to the

electricity suppliers. Quarter to quarter and annual movements are calculated using the retail prices index for electricity.

Source: Quarterly survey. See general notes for the United Kingdom.

ENERGY PRICE INDICES

Annual indices are 12-month averages. From 1Q93 onwards, quarterly indices refer to the three-month average. Prior to 1Q93, indices refer to the second month of each quarter.

Sources: Retail: Office for National Statistics, ONS *Monthly Digest of Statistics*. Wholesale: Fuel price indices for the industrial sector, *Quarterly Energy Prices*.

Oil Products

Wholesale: From 1Q98 onwards, indices refer to oil products. Prior to 1Q98, indices refer to the weighted average of medium fuel oil, gas oil, and derv fuel (diesel fuel).

Retail: Weighted average of heating oils and petrol and oil.

Electricity

Wholesale: Index based on the average unit value (excluding VAT) of sales to industrial customers of electricity. Not a true wholesale price.

Retail: Electricity.

Natural Gas

Wholesale: Indices refer to the average unit value (excluding VAT) of sales to industrial customers of natural gas. Not a true wholesale price.

Retail: Gas.

Coal

Wholesale: Coal.

Retail: Coal.

UNITED STATES

GENERAL NOTES

From January 1993 onwards, the most recent quarterly average is based on historical prices for two months of the quarterly period and an estimate of the third month. These monthly data are then averaged for the publication quarter. Prices from 4Q84 to 4Q92 refer to the second month of the quarter. Prior to 4Q84, prices refer to the first month in the quarter. See individual products for details.

General Tax (Sales Tax): In nearly all states a sales tax is levied on all sales of goods and services to non-commercial users. The rates vary between states. In some states, additional local sales taxes are also levied. The IEA has estimated national weighted averages of these rates as far as they apply to energy products and used them in the computation of total tax amounts shown in the main tables.

Source: Short-Term Integrated Forecasting System (STIFS), documented in the *Short-Term Integrated Forecasting System: 1993 Model Documentation Report*, DOE-EIA MO-41 (93), May 1993. See the documentation and model at the EIA internet address: www.eia.doe.gov/emeu/steo/pub/aamd.html.

OIL PRODUCTS

General and Special Taxes: The general state sales taxes mentioned above are always levied on sales of non-motor fuels to non-commercial users. Sales of motor fuels to non-commercial users are generally exempt of the general sales tax because in all states and in some municipalities' special motor fuel taxes exist. However in about eight states both taxes are cumulated. The estimates of national weighted average rates and amounts below take account of this situation as far as possible. In addition to the above a special federal motor fuel tax exists.

Heavy Fuel Oil for Industry

Prices refer to the average of high sulphur fuel oil and low sulphur fuel oil.

Specifications

Quality:	Residual Fuel Oil No. 5 and 6 (defined in ASTM D396). Also includes Navy special fuel and bunker oil.
Density:	0.944 t/kl (280 gallons/t)
Sulphur Content:	≥ 1%
Delivery Size:	Weighted avg. of all sizes
Marketing Stage:	Avg. refiner price to end-users

Sources: DOE-EIA, Monthly Survey with Form EIA-782A among 350 sample refining units in *Monthly Petroleum Product Sales Report*. Data published: DOE - EIA, *Petroleum Marketing Monthly*, table "Refiner Residual Fuel Oil Prices" and *Monthly Energy Review*, table "Refinery Sales Prices of Residual Fuel Oil" column "More than 1%, sales to end-users".

Heavy Fuel Oil for Electricity Generation

Prices refer to the average expenditure per tonne on heavy fuel oils no. 4, 5 and 6 and topped crude by electric utilities with more than 50 MW capacity. Prior to 1983, prices refer to utilities with capacity of 25 MW.

Source: DOE-EIA, Monthly Survey using Form FERC-423, *Monthly Report of Cost and Quality of Fuels for Electric Plants*.

Specifications

Sulphur Content:	Not specified
Density:	0.944 t/kl (279.7 gallons/t)
NCV:	9 988 kcal/kg*
GCV	4.618 MBTU/t GCV*

* This is higher than for ordinary heavy fuel oil because electric power plants also use small amounts of higher grade oil products.

Sources: Data published: DOE-EIA, *Electric Power Monthly*, table "Average Cost of Fossil Fuel Receipts for Steam-Electric Plants of 50-MW Installed Nameplate Capacity or Larger" and *Monthly Energy Review*, table "Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants".

Light Fuel Oil for Industry

Prices cover the whole distillate end-use market; 25% of it is handled by refiners and 75% by resellers and retailers.

Specifications

Quality:	No. 2 Fuel Oil (defined in ASTM D396)
NCV:	10 760 kcal/kg

Sources: DOE-EIA, Monthly Survey with Form EIA-782A, *Monthly Petroleum Product Sales Report* among 350 sample refining units and with Form EIA-782B, *Monthly Oil Distillate Sales Report* among resellers and retailers. Data published: DOE-EIA *Petroleum Marketing Monthly*, table "Sales Prices of No. 2 Fuel Oil", column "Industrial Customers". Prior to 1983, *Monthly Petroleum Product Price Report*, Table 8, "Sales to end users, industrial".

Light Fuel Oil for Households

Prices refer to technical specifications of light fuel oil as described under LFO for industry. They are regularly surveyed in a nation-wide sample of households and include all fees, taxes and rebates.

Sources: Monthly survey carried out by the Bureau of Labor Statistics (Department of Labor) in 85 urban areas representing 80% of the total population. Data published: *CPI Detailed Report*, monthly.

Automotive Diesel Oil

Average Federal and State Taxes: These taxes include, but are not limited to, excise taxes, environmental taxes, special taxes, and inspection fees, exclusive of county and local taxes. Rates are also exclusive of any State taxes based on gross or net receipts. Original figures in cents/gallon (published in *Petroleum Marketing Monthly*, Table EN1), have been converted to USD/litre using a standard conversion factor of 0.00264172. Amounts shown below are shown in USD/litre.

From	To	Federal Average	State Average	Total Average
Prior to	Jan 98	..	..	see tables
Jan 98	Apr 98	0.0642	0.0520	0.116
May 98	Mar 99	0.0642	0.0518	0.116
Apr 99	Sep 99	0.0645	0.0500	0.114
Oct 99	Mar 00	0.0645	0.0528	0.117
Apr 00	Sep 00	0.0645	0.0530	0.117
Oct 00	Mar 00	0.0645	0.0534	0.118
Apr 01	Jul 01	0.0645	0.0531	0.118
Aug 01	Mar 03	0.0645	0.0532	0.118
Apr 03	Sep 03	0.0645	0.0548	0.119
Oct 03	Mar 04	0.0645	0.0554	0.120
Apr 04	Sep 04	0.0645	0.0555	0.120
Oct 04	Mar 05	0.0645	0.0557	0.120
Apr 05	Sep 05	0.0645	0.0564	0.121
Oct 05	Dec 05	0.0645	0.0571	0.122
Jan 06	Jun 06	0.0645	0.0575	0.122
Jul 06	Mar 07	0.0645	0.0578	0.122
Apr 07	Jun 07	0.0645	0.0580	0.122
Jul 07	now	0.0645	0.0582	0.123

Additional Local Taxes: These include, but are not limited to, state-specific sales taxes, gross earnings taxes, environmental protection taxes, gross receipts on highway fuels, and LOTS (local option taxes).

Prices refer to the sum of an official ex-tax price and an estimate of the total tax amount as derived from the elements above. The ex-tax price corresponds to the average charged by refinery owned retail outlets. These outlets represent about 20-30% of the total market.

Specifications

Quality: No. 2 distillate (diesel fuel)
Density: 0.82 t/kl (308 gallons/t)

Sources: From 1Q92 onwards, DOE-EIA, *Weekly Petroleum Status Report*; includes all retail outlets. Data published: DOE-EIA, *Petroleum Marketing Monthly*, table "Sales Prices of No. 2 Distillate by type of sale", column "Sales through company-owned retail outlets". Prior to 1Q92, DOE-EIA, Monthly Survey with Form EIA-782A and 782B, *Monthly Petroleum Product Sales Report* survey; among 350 sample refining units. Prior to 1983, data published: *Monthly Energy Review*, No. 2 Diesel Price Average, Retail.

Gasoline

Average Federal and State Taxes: See notes for diesel. Amounts shown below are in USD/litre.

From	To	Federal Average	State Average	Total Average
Prior to	Jan 98	..	..	see tables
Jan 98	Apr 98	0.0483	0.0526	0.101
May 98	Mar 99	0.0483	0.0524	0.101
Apr 99	Sep 99	0.0486	0.0519	0.101
Oct 99	Mar 00	0.0486	0.0526	0.101
Apr 00	Sep 00	0.0486	0.0529	0.101
Oct 00	Mar 01	0.0486	0.0526	0.101
Apr 01	Mar 03	0.0486	0.0528	0.101
Apr 03	Sep 03	0.0486	0.0536	0.102
Oct 03	Sep 04	0.0486	0.0542	0.103
Oct 04	Mar 05	0.0486	0.0545	0.103
Apr 05	Sep 05	0.0486	0.0549	0.104
Oct 05	Dec 05	0.0486	0.0556	0.104
Jan 06	Jun 06	0.0486	0.0559	0.105
Jul 06	Mar 07	0.0486	0.0563	0.105
Apr 07	Jun 07	0.0486	0.0566	0.105
Jul 07	now	0.0486	0.0568	0.105

Additional Local Taxes: See notes for diesel.

Prices refer to the city retail price, average of full-, mini- and self-service stations.

Prior to January 1993, the total tax column in the price table is the difference between two published prices: a national average pump price (tax inclusive) compiled

by the U.S. Bureau of Labour Statistics and a national average ex-tax price compiled by the Department of Energy (published in *Petroleum Marketing Monthly*, table "Refiner Motor Gasoline Prices by Grade and Sales Type" column "Unleaded Regular Sales to End Users Through Company Outlets"). The average local sales tax can be approximated as the difference between the total tax amount mentioned above and the sum of independent data and estimates for the other tax components.

Specifications

Grade and Octane: Premium Unleaded 93 RdON
Midgrade Unleaded 89 RdON
Regular Unleaded 87 RdON

Sources: From 1994 onwards, Energy Information Administration, Department of Energy DOE-EIA; Form EIA-878, "Motor Gasoline Price Survey". Data Published: DOE-EIA's Monthly Energy Review and Weekly Petroleum Status Report. Prior to 1994, U.S. Bureau of Labour Statistics; Monthly Retail Price Survey for the purpose of computing the national consumer price index. Service Stations in 85 urban areas are surveyed. These areas cover about 80% of the total U.S. population. Data published: DOE-EIA, *Monthly Energy Review* and *Weekly Petroleum Status Report*.

NATURAL GAS

Specifications

GCV: 9 139 kcal/m³ (1 027 BTU/cf.)

Taxes are included in the prices for households, industry and electricity generation. They mostly refer to general sales taxes levied by the States. The rates range between 2-6% and their national average is unknown.

Households and Industry

Prices to residential and industrial customers are calculated on gas that is both delivered and sold to those customers.

Sources: DOE-EIA, Monthly Survey with Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Customers," addressed to a sample of approximately 400 natural gas companies. The sample includes interstate pipeline companies, intrastate pipeline companies, and local distribution companies. Data published: DOE-EIA *Natural Gas Monthly*, table "Average Price of Natural Gas Delivered to Residential Consumers by State", and "Average Price of Natural Gas Sold to Industrial Consumers by State".

Electricity Generation

Price shown is a monthly average expenditure per 10⁷ kcal incurred by electric power companies for all natural gas purchases. The price shown includes small quantities of coke oven gas, refinery gas and blast furnace gas.

Sources: DOE-Energy Information Administration; Monthly Survey with Form FERC-423 addressed to electric power companies. Data published: DOE-EIA, *Electric Power Monthly*, table "Average Cost of Fossil Fuel Receipts" and *Monthly Energy Review*, table "Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants".

COAL

Taxes on coal in the United States consist of severance taxes (a percentage of the value of production, which vary from state to state), and federal taxes (in the form of a corporate income tax, levied in the range from 15% to 35%). The national average of these taxes is not available.

Steam Coal for Industry

Price shown is quarterly average expenditure per tonne paid by industrial plants, including taxes.

Specifications

Quality: Bituminous coal

Sources: DOE-EIA, Quarterly survey with form EIA-3 *Quarterly Coal Consumption Report - Manufacturing Plants*. Data published: *Quarterly Coal Report*, table "Average Price of Coal Receipts by End-Use Sector".

Steam Coal for Electricity Generation

Price shown is quarterly average of expenditure per tonne incurred by Electric Power companies for all kinds of coal purchased, including taxes if applicable.

Sources: DOE-EIA, Monthly Survey with Form FPC-423 addressed to utilities. Data published: *Electric Power Monthly*.

Coking Coal

From 1980 onwards, prices refer to the quarterly average expenditure per tonne for coking coal incurred by coke plants. Prior to 1980, prices refer to the average export price (FOB) for Customs Commodity Schedule E No. 3222020.

Specifications

Volatility:	16 - 34%
Ash Content:	4 - 8%
Water Content:	2 - 6%
NCV:	7 090 kcal/kg
GCV:	26.8 MBTU/short ton

Sources: DOE-EIA, quarterly survey with Form EIA-5 *Coke Plant Report - Quarterly*. Data published: *Quarterly Coal Report*, table "Average Price of Coal Receipts by End-Use Sector".

ELECTRICITY

From 1Q84 onwards, prices refer to the second month of each quarter. Prior to 4Q83, prices refer to the first month of each quarter.

Taxes are excluded. They are mostly general sales taxes levied by the states; their rates are between 2-6%, but their national weighted average is unknown. Prices shown for industry and households are the monthly average revenue per kWh received by privately owned electric power companies from the industrial and residential sector. They are subject to significant seasonal upswings in the summer months as a result of heavy demand for air conditioning.

From January 1986 onwards, national average price estimates are based on data as reported by a statistically derived sample of both publicly and privately owned utilities, which respond on the Form EIA-861, *Annual Electric Utility Report*. Prices from 1980 through 1985 cover selected privately owned electric utilities in Class A whose electric operating revenue were 100 million USD or more during the previous year. Prices for 1979 cover privately owned electric utilities in Classes A and B.

Sources: DOE-EIA, Monthly Survey with Form EIA-826, *Monthly Electric Utility Sales and Revenue Report with State Distributions* and predecessor forms. Since January 1986, survey with Form EIA-861, *Annual Electric Utility Report*. Data published: DOE-EIA, *Monthly Energy Review*, table "Retail Electricity Prices by Class of Service".

ENERGY PRICE INDICES

Quarterly data refer to the three-month average of the quarter. Annual figures are twelve-month averages.

Source: Bureau of Labour Statistics.

Oil Products

Wholesale: Petroleum products, refined (commodity code 057).

Retail: Average of gasoline, all types (U.S. city average) and fuel oil (U.S. city average) weighted by quantities.

Electricity

Wholesale: Industrial Electric Power (commodity code 0543).

Retail: Electricity (U.S. city average).

Natural Gas

Wholesale: Natural Gas (commodity code 0531).

Retail: Natural gas service (U.S. city average).

Coal

Wholesale: Coal (commodity code 051).

PEOPLE'S REPUBLIC OF CHINA

GENERAL NOTES

Prices refer to average market prices for 35 major cities except for automotive diesel for non-commercial use and regular unleaded gasoline where prices are for Beijing.

General Tax (VAT)

	%
Coal and natural gas	13
Oil products	17

Sources: Beijing Energy Efficiency Centre unless otherwise specified.

OIL PRODUCTS

Heavy Fuel Oil for Industry

Specifications

Quality: No. 250 Heavy Fuel Oil, vacuum residuum

Sources: Beijing Energy Efficiency Centre. Published: *China Energy Databook*, Pacific Northwest National Laboratory.

Light Fuel Oil for Households

Specifications

Quality: Kerosene for lighting

Sources: Beijing Energy Efficiency Centre. Published: *China Energy Databook*, Pacific Northwest National Laboratory.

Automotive Diesel for Commercial Use

Specifications

Quality: Light Diesel Oil No. 0 for Public Transport Use (commercial)

Sources: From 2001 onwards, *China Petroleum Data Monthly*, China Economic Information Service, Xinhua News Agency. From 1995 until 2000, Beijing Energy Efficiency Centre. Prior to 1995, *China Energy Databook*, Pacific Northwest National Laboratory.

Automotive Diesel for Non-Commercial Use

Specifications

Quality: Light Diesel Oil No. 0 (non-commercial)

Source: *China Petroleum Data Monthly*, China Economic Information Service, Xinhua News Agency.

Gasoline

Specifications

Unleaded Premium

Quality: Unleaded Premium Gasoline
Grade: 97 RON

Leaded Premium

Quality: Leaded Premium Gasoline
Grade: 90 RON

Unleaded Regular

Quality: Unleaded Regular Gasoline
Grade: 90 RON

Sources: For unleaded and leaded premium, Beijing Energy Efficiency Centre. Published: *China Energy Databook*, Pacific Northwest National Laboratory. For unleaded regular, *China Petroleum Data Monthly*, China Economic Information Service, Xinhua News Agency.

NATURAL GAS

Prices refer to natural gas from gas fields (industrial use).

COAL

From 1996 onwards, more than two-thirds of the coal prices have been opened to the market. However, prices for electricity generation are still supervised by the government. From January 1994 to December 1995, the coal prices were in the process of liberalisation. Prior to January 1994, China operated a dual pricing system for coal. Under this arrangement there were two types of coal: "allocated coal" (plan prices fixed or state mine production) produced from state, provincial and country mines; and "free market coal" (sold at negotiated prices) produced by small township mines. Prices varied according to regional supply/demand situations.

Steam Coal for Industry

Specifications

Quality: Anthracite

Sources: From 1997 onwards, Beijing Energy Efficiency Centre. Prior to 1997, *China Energy Databook*, Pacific Northwest National Laboratory.

Steam Coal for Households

Specifications

Quality: Ordinary Bituminous Coal
NCV: 4 990 kcal/kg (assumed)

Sources: From 1995 onwards, Beijing Energy Efficiency Centre. Prior to 1995, *China Energy Databook*, Pacific Northwest National Laboratory.

Coking Coal

Specifications

Quality: Metallurgical Coke
Diameter: > 40mm
NCV: 6 800 kcal/kg (assumed)

Sources: Beijing Energy Efficiency Centre. Published: *China Energy Databook*, Pacific Northwest National Laboratory.

ELECTRICITY

Industry

Prices refer to electricity for ordinary industry and are a nationally regulated single price with consumption less than 250 V.

Sources: From 1996 onwards, *Electric Power Industry in China*. *China Energy Databook*, Pacific Northwest National Laboratory.

Households

Source: *Electric Power Industry in China*.

CHINESE TAIPEI

GENERAL NOTES

From 1Q91 onwards, quarterly prices refer to the three-month average. Prior to 1Q91, prices refer to end-year and end-quarter.

General Tax (VAT)

From	To	%
01.04.86	now	5

Sources: Bureau of Energy, Ministry of Economic Affairs, Republic of China unless otherwise specified. Data published: *Energy Indicators Quarterly*, Taiwan Area, the Republic of China.

OIL PRODUCTS

Excise Tax: Applies to fuel oils. The excise amount is applied to the "appraisal value" price (approximately 88% of the ex-tax price).

From	To	Amount
01.07.93	30.06.95	3% of appraisal value
01.07.95	12.10.01	105 TWD/klitre
13.10.01	now	110 TWD/klitre

High Sulphur Fuel Oil for Industry

Specifications

Density: 0.942 t/kl
NCV: 9 200 kcal/l

Sulphur Content:

From	To	%
01.01.80	31.12.86	3.5
01.01.87	31.12.89	2.0
01.01.90	30.06.93	1.5
01.07.93	now	1.0

Low Sulphur Fuel Oil for Industry

Produced and consumed since 1 July 1993.

Specifications

Density: 0.93 t/kl
Sulphur Content: 0.5%
NCV: 9 500 - 12 000 kcal/l

Fuel Oil for Electricity Generation

Specifications

Quality: Fuel Oil C
Sulphur Content: 1%
Density: 0.953 t/kl
NCV: 9 200 kcal/l

Light Fuel Oil for Industry

Excise Tax: As shown in excise tax column.

Specifications

Quality: Low Sulphur Light Fuel Oil
Density: 0.89 - 0.90 t/kl
NCV: 9 800 - 12 000 kcal/l

Automotive Diesel Oil

Excise Tax

From	To	Amount
01.01.89	20.01.94	60% of appraisal value
21.01.94	24.02.94	65% of appraisal value
25.02.94	30.06.95	75% of appraisal value
01.07.95	12.10.01	3.8 TWD/kl
13.10.01	now	3.99 TWD/kl

Specifications

NCV: 8 800 kcal/l
Density: 0.81-0.82 t/kl
Cetane number: 46

Premium Diesel Oil

Sulphur Content: < 0.3%

Regular Diesel Oil

Sulphur Content: < 1.0%

Gasoline

Excise Tax

From	To	Amount
14.02.92	20.01.94	75% of appraisal value
21.01.94	24.02.94	82% of appraisal value
25.02.94	30.06.95	90% of appraisal value
01.07.95	12.10.01	6.5 TWD/litre
13.10.01	now	6.83 TWD/litre

Specifications

NCV: 11 000 kcal/l
Density: 0.84 t/kl

Premium Leaded and Premium Unleaded

Octane: 95 RON and 98 RON

Regular Unleaded

Octane: 92 RON (1988 onwards)
82 RON (1982 - 1987)

NATURAL GAS

Industry and Households

Industry prices refer to the regions of Hsinchu and Miao Li.

Household prices refer to the region of Taipei.

Specifications

Quality: Natural Gas (fuel)

NCV

From	To	kcal/ m ³
1954	1990	9 000
1991	now	8 900

Electricity Generation

Prices refer to imported liquefied natural gas (LNG).

Specifications

NCV: 9 900 kcal/m³

COAL

Specifications

NCV: 7 000 kcal/kg

Steam Coal for Industry

Prices refer to the median of the following market selling prices for each period:

Year	TWD/ tonne
1984	2 400 - 2 600
1985	2 300 - 2 600
1986	2 500 - 2 650
1987 - 1989	2 450 - 2 650
1990	2 200 - 2 500
1991 - 2000	2 000 - 2 610

From 2001 onwards, coal is no longer produced in mines in Chinese Taipei.

Steam Coal for Electricity Generation

Prices shown are annual average expenditure incurred by TPC and other governmental organisations.

Source: Taiwan Provincial Bureau of Mines (TPBM), Taipei.

ELECTRICITY

Special Taxes

From	To	%	Type of Tax
01.01.80	31.03.86	0.60	Business tax
		0.40	Stamp tax
		0.15	Education Surtax
01.04.86	now	5.00	VAT

Prices shown for industry and households are derived from calendar year average revenues per kWh for power (industry) and for light (households).

Source: TPC, Taipei.

ENERGY PRICE INDICES

Source: Correspondence with the Bureau of Energy, Ministry of Economic Affairs, Republic of China.

Oil Products

Retail: Weighted average of premium gasoline and premium diesel oil.

Electricity

Retail: Lighting.

Natural Gas

Retail: Natural gas (fuel).

CYPRUS

GENERAL NOTES

Conversion to Euro: Prices and taxes prior to 1 January 2008, the date of entry into the Economic and Monetary Union (EMU), have been converted from Cypriot Pounds using the appropriate irrevocable conversion rate of 0.585274 CYP/Euro. This methodology facilitates comparisons within a country over time and ensures that the historical evolution (i.e. growth rates) is preserved. However, pre-EMU Euro are a notional unit and are not normally suitable to form area aggregates or to carry out cross-country comparisons.

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	15

Source: Published in *Industrial Statistics* by Statistical Service Cyprus unless otherwise specified. Prices from this source refer to the retail prices at the filling stations, including excise taxes and excluding VAT.

OIL PRODUCTS

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

High Sulphur Fuel Oil

Sulphur content: > 1%

Source: for HSFO used for industry, prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Source: prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Source: prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

Source: for Unleaded (95 RON), prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

ESTONIA

GENERAL NOTES

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	18

OIL PRODUCTS

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

Low Sulphur Fuel Oil

Sulphur content: ≤ 1%

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

Automotive LPG

Pump prices.

Excise Tax: As shown in excise tax column.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

INDIA

GENERAL NOTES

Unless specified otherwise, annual prices are based on the Indian fiscal year beginning 1 April. See individual products for more details.

OIL PRODUCTS

Oil product prices and sales tax refer to the Mumbai (Bombay) area, as country-wide average prices and sales tax among the 26 states are not feasible. However, excise tax and customs duties are uniform throughout India. The excise tax contains both an ad valorem component and a flat rate component. The percentage part of the excise tax is applied to the price excluding the dealer's commission.

Sales Tax is levied as a percentage on the ex-tax price plus excise tax amount, but can also contain an additional surcharge (see individual fuels).

Sources: Ministry of Petroleum and Natural Gas, New Delhi and Central Statistical Organisation, Ministry of Statistics and Programme Implementation, New Delhi.

High Sulphur Fuel Oil

Total price is made up of assessable value, excise duty (including an ad valorem "education cess") and sales tax. From 1978 to 1981, prices refer to those of 1 January.

General Tax (Sales Tax)

From	To	%
Prior to	31.03.88	4
01.04.88	02.07.96	8
03.07.96	01.09.97	12
02.09.97	31.03.98	8
01.04.98	31.12.00	13
01.01.01	now	unknown

Excise Tax/Customs Duty

From	To	INR/tonne	INR/kl
01.03.79	28.02.88	129.8	125.92
01.03.88	27.02.93	155.4	150.71
28.02.93	28.02.94	196.0	190.00
01.03.94	02.07.96	464.0	450.00
03.07.96	01.09.97	794.0	770.00

From	To	INR/tonne	INR/kl
02.09.97	31.12.97	546.0	530.00
01.01.98	31.03.98	794.0	750.50
01.04.98	31.12.98	773.0	749.80
01.01.99	31.03.99	705.9	684.70
01.04.99	31.10.99	725.8	704.00
01.11.99	31.12.99	..	..
01.01.00	31.03.00	1422.1	1379.46
01.04.00	01.06.00	1557.9	1511.90
02.06.00	31.12.00	..	..

For excise tax rates after 2001, see the book tables.

Specifications

Quality:	Furnace Oil (FO)
Density:	0.97 t/kl (assumed)
NCV:	9 600 kcal/kg (assumed)

Light Fuel Oil for Industry

Total price is made up of assessable value, excise duty (including an ad valorem "education cess" and an additional levy along with cess) and sales tax. From 1978 to 1981, prices refer to those of 1 January.

Sales Tax

See table for High Sulphur Fuel Oil.

Excise/Customs Duty

From	To	INR/kl
01.03.79	16.08.79	74.15
17.08.79	28.02.88	153.96
01.03.88	27.02.93	160.91
28.02.93	28.02.94	173.02
01.03.94	02.07.96	558.76
03.07.96	01.09.97	950.00
02.09.97	31.12.98	740.00
01.01.99	31.03.99	1008.00
01.04.99	31.10.99	1139.20
01.11.99	31.12.99	..
01.01.00	31.03.00	1561.80
01.04.00	01.06.00	1669.40
02.06.00	31.12.00	..

For excise tax rates after 2001, see the book tables.

Specifications

Quality:	Light Diesel Oil
Density:	0.83 t/kl (assumed)
NCV:	10 350 kcal/kg (assumed)

Light Fuel Oil for Households

From 2001 onwards, total price is made up of assessable value, sales tax (including a surcharge on sales tax) and a number of other charges, commissions and costs. Prior to 2001, prices refer to basic ceiling price (ex-storage point).

Sources: From 2001 onwards, Ministry of Petroleum & Natural Gas. Prior to 2001, Monthly Abstract of Statistics, Ministry of Statistics and Programme Implementation.

Specifications

Quality: Superior Kerosene Oil (SKO)
Density: 0.828/kl (assumed)

Automotive Diesel Oil

Total price is made up of assessable value, dealer commission, excise tax and sales tax (including a sales tax surcharge). From 1978 to 1981, prices refer to those of 1 January.

General Tax (Sales Tax)

From	To	%
Prior to	31.03.88	10
01.04.88	30.03.89	12
01.04.89	30.03.91	14
01.04.91	30.09.94	20
01.10.94	31.12.00	21
01.01.01	now	unknown

Excise Tax/Customs Duty

From	To	INR/ litre
01.03.79	16.08.79	0.494
17.08.79	10.09.79	0.399
11.09.79	28.02.88	0.330
01.03.88	27.02.93	0.347
28.02.93	28.02.94	0.348
01.03.94	30.09.94	0.570
01.10.94	02.07.96	0.590
03.07.96	01.09.97	0.860
02.09.97	31.12.97	1.240
01.01.98	31.03.98	1.210
01.04.98	31.03.99	1.170
01.04.99	30.06.99	1.100
01.07.99	31.10.99	1.140
01.11.99	31.12.99	1.600
01.01.00	31.12.00	2.600

For excise tax rates after 2001, see the book tables.

Specifications

Quality: High speed diesel oil
Density: 0.82 t/kl
NCV: 10 080 kcal/kg

Gasoline

Total price is made up of assessable value, dealer commission, excise tax and sales tax (including a surcharge). From 1978 to 1981, prices refer to those of 1 January.

General Tax (Sales Tax)

From	To	%
Prior to	31.03.88	12
01.04.88	30.03.89	15
01.04.89	30.03.90	17
01.04.90	30.09.94	20
01.10.94	31.12.00	21
01.01.01	now	unknown

Excise Tax/Customs Duty

From	To	INR/ litre
01.03.79	16.08.79	2.703
17.08.79	28.02.88	2.216
01.03.88	27.02.93	2.327
28.02.93	28.02.94	2.438
01.03.94	30.09.94	2.570
01.10.94	02.07.96	2.640
03.07.96	01.09.97	2.670
02.09.97	30.09.98	3.540
01.10.98	31.12.98	5.160
01.01.99	31.12.99	5.130
01.01.00	31.12.00	6.130

For excise tax rates after 2001, see the book tables.

Specifications

Grade and Octane: Premium Leaded 93 RON
Leaded Reg. 87 (1982 onwards)
Leaded Reg. 83 (prior to 1982)
Density: 0.75 t/kl (assumed)
NCV: 10 700 kcal/kg (assumed)

NATURAL GAS

Prices refer to natural gas off-shore (landfall point), and exclude royalties, taxes and all statutory levels.

Specifications

NCV: 9 000 - 9 500 kcal/m³ (assumed)

Source: Ministry of Petroleum & Natural Gas.

COAL PRICES

Sources: For industry and electricity generation: Coal Controller's Organisation, Kolkata and Central Statistical Organisation, Ministry of Statistics and Programme Implementation, New Delhi. For households: Monthly Abstract of Statistics, Ministry of Statistics and Programme Implementation.

Steam Coal

Special Taxes

Stowing Excise Duty (SED)

From	To	INR/tonne
01.01.75	25.06.03	3.50
26.06.03	now	10.00

Royalties (INR/tonne)

From	To	Industry	Electricity
12.02.81	31.07.91	6.50	4.30
01.08.91	10.10.94	120.00	45.00
11.10.94	16.08.02	135.00	70.00
07.08.02	now	165.00	85.00

Specifications

Industry

Quality: Non-coking coal, Grade B (run of mine, non-long flame) from Mugma Area of ECL (CIL)

NCV: 5 940 kcal/kg

Electricity Generation

Quality: Non-coking coal, Grade E (run of mine, non-long flame) from Rajmahal Area of ECL (CIL)

NCV: 4 560 kcal/kg

Household

Quality: Soft coke briquettes

NCV: 8 900 (useful heat value)

Coking Coal

Special Taxes

Stowing Excise Duty (SED)

From	To	INR/tonne
01.01.75	25.06.03	4.25
26.06.03	now	10.00

Royalties

From	To	INR/tonne
12.02.81	31.07.91	7.00
01.08.91	10.10.94	150.00
11.10.94	16.08.02	195.00
07.08.02	now	250.00

Specifications

Quality: Steel Grade II (run of mine), from collieries of BCCL (CIL) linked to washeries

NCV: 6 350 kcal/kg

Ash content: 15 - 18%

ELECTRICITY

Sources: For industry: Planning Commission, Annual Report on the Working of State Electricity Boards and Electricity Departments and Central Statistical Organisation, Ministry of Statistics and Programme Implementation, New Delhi. For households: Monthly Abstract of Statistics, Ministry of Statistics and Programme Implementation.

ENERGY PRICE INDICES

Source: Ministry of Statistics and Programme Implementation, New Delhi.

Oil Products

Wholesale: Indices are calculated from 1981 onwards, and are based on a weighted average of petrol, kerosene, aviation turbine fuel, high speed diesel oil, light diesel oil, lubricants and liquefied petroleum gas.

Electricity

Wholesale: Electricity.

Coal

Wholesale: Weighted average of coking coal, coke and lignite.

INDONESIA

OIL PRODUCTS

From 2003 onwards, prices refer to the standard retail price and in 2002 to the market price. Prior to 2002, oil product prices refer to the subsidized price.

Sources: From 2003 onwards, *Petroleum Report Indonesia*, Embassy of the United States of America, Jakarta. Prior to 2003, Ministry for Energy and Natural Resources. See individual products for exceptions.

High Sulphur Fuel Oil

Specifications

Quality:	Fuel Oil
Density:	0.968 t/kl (assumed)
NCV:	9 820 kcal/kg (assumed)

Light Fuel Oil for Households

Specifications

Quality:	Kerosene
----------	----------

Diesel

Specifications

Non-commercial:

Quality:	Automotive Diesel Oil (ADO)
----------	-----------------------------

Commercial:

Quality:	Industrial Diesel Oil (IDO)
----------	-----------------------------

Sources: From 2005 onwards, *Petroleum Report Indonesia*, Embassy of the United States of America, Jakarta. From 2003 to 2004, Departemen Energi dan Samber Daya Mineral (ESDM). From 1990 to 2002, Ministry for Energy and Natural Resources. From 1984 to 1989, Asian Development Bank *Key Indicators of Developing Asian and Pacific Countries*. From 1980 to 1983, OPEC *Annual Statistical Bulletin*.

Gasoline

Specifications

Regular Leaded 88 RON gasoline

Quality:	Premium
----------	---------

Premium Unleaded 95 RON gasoline

Quality:	Pertamax Plus
----------	---------------

Premium Unleaded 92 RON gasoline

Quality:	Pertamax
----------	----------

Regular Unleaded 88 RON gasoline

Quality:	Premium TT
----------	------------

Sources: From 2003 onwards, Pertamina. From 1990 to 2000, Ministry for Energy and Natural Resources. From 1984 to 1989, Asian Development Bank *Key Indicators of Developing Asian and Pacific Countries*. From 1980 to 1983, OPEC *Annual Statistical Bulletin*.

NATURAL GAS

Households

Prices refer to city gas delivered to households.

Industry

Prices refer to city gas used by the fertilizer industry.

Source: Ministry for Energy and Natural Resources.

COAL

Industry

Prices refer to manufacturing industry codes 31-39.

Electricity Generation

Prices refer to the annual consumption value per total annual volumes.

Specifications

NCV:	5 300 - 5 500 kcal/kg
------	-----------------------

Source: Ministry for Energy and Natural Resources.

ELECTRICITY

As of 20 December 2001, the electricity tariffs for consumer categories are as follows:

	Minimum IDR/kWh	Maximum IDR/kWh
Industry	33.44	76.93
Households	26.42	130.24

Source: Ministry for Energy and Natural Resources.

KAZAKHSTAN

GENERAL NOTES

General Tax (VAT): VAT is not included in prices and taxes shown for industry. Industrial enterprises only pay the difference between VAT calculated on their output, and VAT paid on their inputs, to the central budget.

From	To	%
01.01.93	30.06.01	20
01.07.01	31.12.03	16
01.01.04	31.12.06	15
01.01.07	now	14

Source: National Statistical Agency of the Republic of Kazakhstan.

OIL PRODUCTS

Heavy Fuel Oil

Prices shown are monthly averages. Prior to 1996, prices are end-of-year prices.

Specifications

Quality:	Mazut
Density:	0.96 t/kl (assumed)

Light Fuel Oil

General Tax (VAT): Applies to households. See general notes for Kazakhstan.

Specifications

Density:	0.83 t/kl (assumed)
----------	---------------------

Gasoline

Prices shown are monthly averages. Prior to 1996, prices are end-of-year prices.

General Tax (VAT): See general notes for Kazakhstan.

Excise Tax: See excise tax column.

Specifications

Grade and Octane:	Premium Leaded 93 RON Regular Unleaded 76 RON
Density:	0.845 t/kl (assumed)

NATURAL GAS

General Tax (VAT): Applies to households. See general notes for Kazakhstan.

Prices shown are monthly averages.

Specifications

GCV:	9 320 kcal/m ³ (assumed)
------	-------------------------------------

COAL

Steam Coal for Industry

Prices shown are monthly averages. Prior to 1996, prices are end-of-year prices.

Specifications

GCV:	4 807 kcal/kg (assumed)
------	-------------------------

Steam Coal for Households

General Tax (VAT): See general notes for Kazakhstan.

Prices shown are monthly averages.

Specifications

GCV:	6 173 kcal/kg (assumed)
------	-------------------------

Coking Coal

Prices shown are monthly averages. Prior to 1996, prices are end-of-year prices.

Specifications

GCV:	7 011 kcal/kg (assumed)
------	-------------------------

ELECTRICITY

General Tax (VAT): Applies to households. See general notes for Kazakhstan.

Excise Tax

From	To	KZT/ KWh
01.01.98	31.12.06	0.03
01.01.07	now	0.00

From 1996 onwards, prices shown are monthly averages. Prior to 1996, prices are end-of-year prices.

LATVIA

GENERAL NOTES

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	18

OIL PRODUCTS

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

High Sulphur Fuel Oil

Sulphur content: > 1%

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Leaded Substitute Gasoline

Quality: Lead substitute petrol

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

Automotive LPG

Pump prices.

Excise Tax: As shown in excise tax column.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

LITHUANIA

GENERAL NOTES

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	18

OIL PRODUCTS

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

High Sulphur Fuel Oil

Sulphur content: > 1%

Low Sulphur Fuel Oil

Sulphur content: ≤ 1%

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

Automotive LPG

Pump prices.

Excise Tax: As shown in excise tax column.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: 2006 onwards, weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722). Prior to 2006, HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

MALTA

GENERAL NOTES

Conversion to Euro: Prices and taxes prior to 1 January 2008, the date of entry into the Economic and Monetary Union (EMU), have been converted from Maltese Liras using the appropriate irrevocable conversion rate equal to 0.4293 Liras/Euro.

This methodology facilitates comparisons within a country over time and ensures that the historical evolution (i.e. growth rates) is preserved. However, pre-EMU Euro are a notional unit and are not normally suitable to form area aggregates or to carry out cross-country comparisons.

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	18

OIL PRODUCTS

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

High Sulphur Fuel Oil

Sulphur content: > 1%

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Leaded Substitute Gasoline

Quality: Lead substitute petrol

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

ROMANIA

GENERAL NOTES

As of the first quarter 2006 edition, all prices and taxes are expressed in new Romanian lei (RON). The new lei is equal to 10 000 old lei.

Source: Unless specified otherwise, National Institute for Statistics, Romania.

OIL PRODUCTS

Gasoline

Specifications

Premium Leaded 96/98 RON gasoline

Quality: Super Plus

Premium Unleaded 95 RON gasoline

Quality: Euro Premium Type EN228

Automotive Diesel

Prices shown refer to the average of all consumer categories. From 1Q04 onwards, prices refer to Euro Diesel.

Specifications

Quality: Euro Type EN 590

Sulphur Content: 350 mg/kg (maximum)

Heavy Fuel Oil

Specifications

Density: 0.99 t/kl (assumed)

Light Fuel Oil

Data refer to average prices for all consumers.

COAL

Steam Coal for Households

Prices include VAT and refer to the weighted average price from electricity sales to the urban (57%) and rural (43%) residential sectors.

Specifications

Quality: Sorted Lignite

GCV: 5 500 kcal/kg (assumed)

NATURAL GAS

Households and Industry

Data refer to average prices for all consumers.

Specifications

GCV: 9 320 kcal/m³ (assumed)

ELECTRICITY

Source: Romanian Electricity and Heat Regulatory Authority (ANRE).

ENERGY PRICE INDICES

The industrial production price indices refer only to products delivered to domestic market. Wholesale indices exclude VAT. Base year for these indices is 2000. Retail indices include VAT; base year for these is 2005.

Sources: Wholesale: National Institute for Statistics, Romania. Retail: Eurostat Harmonised indices of consumer prices (HICP).

Oil Products

Wholesale: products of class 23.20 "Manufacture of refined petroleum products" (NACE Rev. 1).

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Wholesale: products of class 40.11 "Production of electric energy" (NACE Rev. 1).

Retail: HICP, Electricity (cp0451).

Natural Gas

Wholesale: includes associated gases, methane gas and free gases in gaseous state.

Retail: HICP, Gas (cp0452).

Coal

Wholesale: products of class 10 "Mining and agglomeration of coal" (NACE Rev. 1).

Retail: HICP, Solid fuels (cp0454).

RUSSIA

GENERAL NOTES

General Tax (VAT): Prior to 1992, there was no VAT in Russia. The Soviet state budget was financed through a turnover tax and through confiscatory income tax on above-norm profits.

From	To	%
01.01.92	31.12.92	28
01.01.93	31.12.93	20
01.01.94	31.12.94	23
01.01.95	now	20

For some products and time periods, ex-tax prices refer to average producers' prices as shipped to the domestic Russian market, excluding value added tax, excises and other taxes not included into the prime cost, as well as excluding costs of transportation to the consumer. See below for details.

OIL PRODUCTS

Special Tax

Road User's Tax

From	To	% Refinery/ ex-tax price
Prior to	31.12.93	25
01.01.99	31.12.00	2.5
01.01.01	31.12.02	1

Source: Unless otherwise specified, the source is *Current Statistical Survey (Quarterly)*, Federal State Statistics Service (Rosstat), which until 2004 was known as National Statistical Committee of Russian Federation (Goskomstat).

Heavy Fuel Oil

Specifications

Quality: Mazut for fuel

From 2004 onwards, prices refer to the selling prices to industrial organisations. From 1995 to 2003, prices refer to producer prices for heating purposes for all the economy sectors. Quarterly prices refer to end-period producer prices. Annual figures are averages of the four quarters.

Prior to 1995, prices represent deliveries to power stations and exclude VAT.

From 1990-92, prices represent delivered prices, calculated as refinery price plus transportation costs. Transport costs are calculated according to freight tariff indices, which are published in *Vestnik Statistiki*.

Source: From 1995 onwards, Federal State Statistics Service (Rosstat).

Light Fuel Oil

Price for industry is equal to the automotive diesel fuel oil, less the amount of Road Tax.

Price for households is the industry price plus VAT.

Specifications

Density: 0.84 t/kl (assumed)

Automotive Diesel Oil for Households

From 1Q2005 onwards, quarterly and yearly data are arithmetic averages of weekly data. Prices prior to 3Q2002 were based on monthly average of "Consumer Prices" for the Moscow region.

Sources: From 1Q2005 onwards, Federal State Statistics Service (Rosstat). Prior to 3Q2002, data published *Infotek, Statistics Documents, Fakty*, Ministry of Energy.

Automotive Diesel Oil for Industry

Prior to 2001, prices refer to end-quarter producer prices.

Prior to 1994, prices exclude VAT, but include the Road tax.

Sources: From 2Q2004 onwards, Russian Information Agency of the Fuel and Energy Complex. From 2001 to 2003, Ministry of Energy. Prior to 2001, Goskomstat, Department of Foreign States Statistics on International Co-operation.

Gasoline

From 1Q2005 onwards, quarterly and yearly data are arithmetic averages of weekly data. From 1Q2001 to 4Q2004, quarterly and yearly data are weighted averages of monthly data. Before 1Q2001, quarterly prices are for the end of the period and yearly prices are averages of the four quarters.

Specifications:

Density: 0.76 t/kl (assumed)

Unleaded Premium 95 RON gasoline

Quality: AN-95

Octane: 95 RON and higher

Unleaded Premium 92 RON gasoline

Quality: AN-92 and AN-93

Octane: 92 RON and 93 RON

Unleaded Regular 76 RON gasoline

Quality: AN-76

Octane: 76 RON

Leaded Premium 92 RON gasoline

Quality: A-92 and A-93

Octane: 92 RON and 93 RON

Leaded Regular 76 RON gasoline

Quality: A-76

Octane: 76 RON

Sources: For unleaded gasoline: from 1Q2005 onwards and from 1997 to 2000, Federal State Statistic Service (Rosstat); from 2001 to 2004, Ministry of Energy. For leaded gasoline: prior to 1Q2004, *Infotek, Statistics Documents, Fakty*, Ministry of Energy.

From 1998 to 2000, leaded premium gasoline quarterly prices refer to averages of monthly "Consumer Prices" for the Moscow region. Leaded regular gasoline prices refer to end-quarter prices and annual figures are averages of the four quarters.

Prior to 1995, leaded gasoline prices refer to road vehicle use only, and represent the average prices for 76 RON and 93 RON gasolines (70% and 30% respectively). The price of 93 RON is 1.3 times higher than 76 RON.

From 1Q92 to 4Q1994, leaded gasoline prices shown include the road tax, value added tax, and gasoline station charges. Prior to 1Q92, the turnover tax is included in the price shown.

NATURAL GAS

Prior to 1995, VAT is excluded from all prices shown except for households.

Industry

From 2004 onwards, prices refer to the average selling prices of gas acquired by industrial organisations. From 1995 to 2003, prices refer to producer prices, including natural gas and associated gas, for all the economy sectors. Quarterly prices refer to end-period producer prices. Annual figures are averages of the four quarters.

Specifications

GCV: 9 320 kcal/m³, 0°C and 760 mm pressure (assumed)

Sources: From 1995 onwards, Federal State Statistics Service (Rosstat). For 1993 only, power utilities' Economic Forecasting Institute of the Russian Academy of Science. From October 1992 to December 1993, Goskomstat publications. From 1990 to September 1992, Government Decrees.

Electricity Generation

Prices for natural gas for electricity generation show the maximum regulated price set by the Federal Energy Commission. The Regional Energy Commission may set its own maximum regulated price based on the federal rate.

Specification:

GCV: 8 974 kcal/m³ (assumed)

Source: Ministry of Energy.

Households

The total price paid by household consumers is established by administrators of the Russian regions and covers the regulated wholesale price for household consumers, a transportation tariff and a marketing and sales service fee. In some cases the total price may also cover a utilities or municipal maintenance fee.

Source: *Gazprom in Figures 2000-2004*, Gazprom.

COAL**Steam Coal for Industry**

From 2004 onwards, prices refer to the selling prices to industrial organisations. From 1994 until 2003, prices are producer prices for both the industry and electricity generating sectors and refer collectively to both hard coal and brown coal. Quarterly prices refer to end-period prices. Annual figures are averages of the four quarters.

Source: From 1994 onwards, Federal State Statistics Service (Rosstat).

Coking Coal for Industry

From 2004 onwards, prices refer to the selling prices to industrial organisations. From 1995 onwards, quarterly prices refer to end-period producer prices. Annual figures are averages of the four quarters.

Sources: From 1994 onwards, Federal State Statistics Service (Rosstat). Prior to 1994, State Committee of the Russian Federation on Statistics (Goskomstat). Data published: *Annual Statistics Yearbook of Russia*.

The following information pertains to data prior to 1994.

Coking coal is used mostly in the metallurgy industry. Prices shown are for washed coking coal (coal concentrate). Washed coking coal is more expensive than unwashed coking coal if all costs are included. However, prices paid by steel mills for washed coal do not cover all washing costs.

ELECTRICITY

Industry

From 2004 onwards, prices refer to the selling prices to industrial organisations. From 1994 onwards, quarterly prices refer to end-period consumer prices. Annual figures are averages of the four quarters.

Sources: From 1994 onwards, Federal State Statistics Service (Rosstat). For 1993, observed prices from Goskomstat publications. From 1990 to 1992, the Ministry of Fuel and Energy data. Data published: *Annual Statistics Yearbook of Russia*.

The following information pertains to data prior to 1994.

Prices shown are delivered prices based on the average revenue per unit covering contracts with two-stage tariffs (customers with > 750 kW, 1 000 kW prior to 1991), standing charge expressed in RUB/kW) and one-stage tariffs (all customers with less capacity).

In Monsenergo area, 66% of industrial consumption is based on the two-stage tariff; 34% on the one-stage tariff.

Households

Prices refer to the weighted average price from electricity sales to the residential sector urban (57%) and rural (43%).

SINGAPORE

GENERAL NOTES

Energy products in Singapore are subject to excise duties and the Goods and Services Tax (GST).

Good and Services Tax (GST)

From	To	%
01.04.94	31.12.02	3
01.01.03	31.12.03	4
01.01.04	30.06.07	5
01.07.07	now	7

Sources: Unless otherwise specified, Statistics Singapore.

OIL PRODUCTS

The quarterly retail prices of petrol and diesel are derived from monthly average prices net of regular discounts given to customers by all oil companies in Singapore at all petrol stations for the reference month. The yearly prices are computed based on monthly average prices.

Automotive Diesel Oil

Excise Tax

From	To	S\$/litre
01.01.98	now	No longer levied

Specifications

Grade: Ultra Low Sulphur Diesel.

Gasoline

Excise Tax

Petrol > 96 RON

From	To	S\$/litre
01.01.00	12.10.01	0.5 or 40% of ex-tax price, whichever was higher
13/10/01	27.02.03	0.44 or 35% of ex-tax price, whichever was higher
28.02.03	now	0.44

Petrol 90-96 RON

From	To	S\$/litre
01.01.00	12.10.01	0.47 or 40% of ex-tax price, whichever was higher
13.10.01	27.02.03	0.41 or 35% of ex-tax price, whichever was higher
28.02.03	now	0.41

Specifications

Grade and Octane: Premium Unleaded 98/95 RON
Regular Unleaded 92 RON

Automotive LPG

Pump Prices. Excise tax is not levied. Prices in litres have been converted from kilograms using an estimated conversion factor from the IEA secretariat.

NATURAL GAS

Prices are under commercial contracts and thus confidential.

COAL

Coal is not used in significant quantities in Singapore.

ELECTRICITY

The prices shown refer to total price, including all taxes. These are therefore different to the Singapore electricity ex-tax prices published in other international publications.

Source: Energy Market Authority, a statutory board under the Ministry of Trade and Industry, Singapore.

SLOVENIA

GENERAL NOTES

General Tax (VAT): VAT is not included in prices and taxes shown for industry because it is refunded on purchases for commercial purposes.

From	To	%
01.05.04	now	20

OIL PRODUCTS

Source: Prices published in the *Weekly Oil Bulletin*, DG Energy and Transport, European Commission.

Prices shown are the prices most frequently charged, based on a weighted average.

Heavy Fuel Oil

Delivered consumer prices for offtakes of less than 2 000 tonnes per month or less than 24 000 tonnes per year.

Excise Tax: As shown in excise tax column.

Specifications:

Low Sulphur Fuel Oil

Sulphur content: $\leq 1\%$

Light Fuel Oil

Delivered consumer prices for deliveries of 2 000 to 5 000 litres (for offtakes of less than 2 000 litres the industrial sector may be taken into consideration).

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Heating gas oil

Automotive Diesel Oil

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Quality: Automotive gas oil

Gasoline

Pump prices.

Excise Tax: As shown in excise tax column.

Specifications:

Unleaded Premium 95 RON Gasoline

Quality: Euro Super 95

Automotive LPG

Pump prices.

Excise Tax: As shown in excise tax column.

ENERGY PRICE INDICES

Annual indices are 12-month averages. Quarterly indices refer to the three-month average.

Source: Eurostat, Harmonised indices of consumer prices (HICP).

Oil Products

Retail: Weighted average of HICP, Liquid fuels (cp0453) and HICP, Fuels and lubricants for personal transport equipment (cp0722).

Electricity

Retail: HICP, Electricity (cp0451).

Natural Gas

Retail: HICP, Gas (cp0452).

Coal

Retail: HICP, Solid fuels (cp0454).

SOUTH AFRICA

GENERAL NOTES

Equalisation Fund

The Equalisation Fund levy is a fixed monetary levy, determined by the Minister of Mineral and Energy Affairs in concurrence with the Minister of Finance.

During 1979 the Republic of South Africa found itself in a situation where it could not obtain crude oil without paying a price differential. It became necessary to establish the Equalisation Fund to manage the collection of levies and financing of the price differential. A levy based on retail sales of petroleum products was imposed from January 1979. The companies marketing these products (so-called Schedule C Companies) collect the levies on behalf of the Equalisation Fund.

The statutory fund is regulated by ministerial directives issued by the minister in concurrence with the Minister of Finance as laid down by the Central Energy Fund Act, No 38 of 1977 as amended. CEF (Proprietary) Limited manages the Equalisation Fund. The Chairman of CEF (Proprietary) Limited, is the accounting officer of the Fund.

In terms of Ministerial Directives the Fund is principally utilised to smooth out fluctuations in the price of liquid fuels (slate payments).

BFP ("Slate" Mechanism)

The BFP is a function of daily changing spot prices and R/\$ exchange rate movements. The monthly average of the net effect of these changes determines the actual BFP for the applicable month. Other domestic price elements may also change from time to time. The sum total of these changes inevitably influences the pump price.

Petrol prices are adjusted on the first Wednesday of every month. Prices rise and fall in line with movements in the exchange rate and international product prices. The basic price is calculated on the basis of 100% of spot quoted product prices at three refineries in the Arab Gulf, the Mediterranean area and Singapore.

Source: Unless specified otherwise, Department of Minerals and Energy.

OIL PRODUCTS

High Sulphur Fuel Oil

Prices refer to bulk deliveries for the Coast region.

Specifications

Density: 0.984 t/kl (average)
NCV: 9 777 kcal/kg

Automotive Diesel

General Tax (Fuel Tax)

From	To	ZAR/ litre
01.01.87	31.03.88	0.247
01.04.88	31.08.88	0.180
01.09.88	15.01.89	0.199
16.01.89	30.06.90	0.289
01.07.90	24.03.91	0.314
25.03.91	22.08.91	0.334
23.08.91	20.03.92	0.414
21.03.92	01.04.93	0.474
02.04.93	04.04.95	0.534
05.04.95	02.05.95	0.544
03.05.95	02.04.96	0.554
03.04.96	02.07.96	0.616
03.07.96	04.02.97	0.626
05.02.97	01.04.97	0.636
02.04.97	31.03.98	0.661
01.04.98	04.04.00	0.761
05.04.00	03.04.01	0.791
04.04.01	01.04.03	0.810
02.04.03	06.04.04	0.850
07.04.04	05.04.05	0.950
06.04.05	04.04.06	1.000
05.04.06	03.04.07	1.000
04.04.07	now	1.050

Special Taxes

Customs and Excise Tax

From	To	ZAR/ litre
01.01.87	now	0.04

Equalisation Fund

From	To	ZAR/ litre
01.07.87	31.03.88	0.057
01.04.88	31.10.88	0.067
01.11.88	16.02.94	0.070
17.02.94	02.04.96	0.080
03.04.96	02.07.96	0.050
03.07.96	04.02.97	0.040
05.02.97	01.04.97	0.030
02.04.97	06.10.98	0.005
07.10.98	31.01.00	0.080
02.02.00	31.12.02	0.000
01.01.03	28.02.03	0.100
01.03.03	now	0.000

Road Accident Fund (RAF)

From	To	ZAR/ litre
01.09.88	30.06.90	0.021
01.07.90	31.10.90	0.019
01.11.90	31.03.92	0.022
01.04.92	01.04.93	0.038
02.04.93	06.08.96	0.058
07.08.96	04.11.97	0.068
05.11.97	03.02.98	0.088
04.02.98	03.07.01	0.103
04.07.01	02.04.02	0.165
03.04.02	01.04.03	0.185
02.04.03	06.04.04	0.215
07.04.04	05.04.05	0.265
06.04.05	04.04.06	0.315
05.04.06	03.04.07	0.365
04.04.07	now	0.415

Central Road Safety Fund (CRSF)

From	To	ZAR/ litre
01.07.90	02.04.96	0.002
03.04.96	now	0

Prices shown are wholesale prices for the Coast region.

Specifications

Density: 0.839 t/kl (average)
 Sulphur Content: 3%
 NCV: 10 302 kcal/kg

Gasoline**General Tax (Fuel Tax)**

Leaded 97/98 RON and 93 RON

From	To	ZAR/ litre
01.01.87	31.03.88	0.235
01.04.88	31.08.88	0.225

From	To	ZAR/ litre
01.09.88	15.01.89	0.229
16.01.89	24.03.91	0.310
25.03.91	22.08.91	0.369
23.08.91	20.03.92	0.469
21.03.92	01.04.93	0.549
02.04.93	04.04.95	0.609
05.04.95	02.05.95	0.619
03.05.95	02.04.96	0.629
03.04.96	02.07.96	0.691
03.07.96	06.08.96	0.701
07.08.97	04.02.97	0.716
05.02.97	01.04.97	0.726
02.04.97	31.03.98	0.766
01.04.98	06.04.99	0.866
07.04.99	04.04.00	0.906
05.04.00	03.04.01	0.956
04.04.01	31.03.03	0.980
01.04.03	31.03.04	1.010
01.04.04	31.03.05	1.110
01.04.05	31.03.07	1.160
01.04.07	now	1.210

Unleaded 95 RON

From	To	ZAR/ litre
03.04.96	02.07.96	0.629
03.07.96	06.08.96	0.639
07.08.96	04.02.97	0.654
05.02.97	01.04.97	0.664
02.04.97	31.03.98	0.704
01.04.98	01.09.98	0.804
02.09.98	now	0

Special Taxes*Customs and Excise Tax*

All Grades

From	To	ZAR/ litre
01.01.87	now	0.04

Equalisation Fund

All Grades

From	To	ZAR/ litre
01.01.87	31.03.88	0.057
01.04.88	31.08.88	0.067
01.09.88	16.02.94	0.070
17.02.94	17.06.94	0.130
18.06.94	02.04.96	0.094
03.04.96	02.07.96	0.064
03.07.96	04.02.97	0.054
05.02.97	01.04.97	0.044
02.04.97	06.10.98	0.004

From	To	ZAR/ litre
07.10.98	01.02.00	0.080
02.02.00	now	0

Road Accident Fund (RAF)

All Grades

From	To	ZAR/ litre
01.01.87	30.06.90	0.036
01.07.90	11.11.90	0.034
12.11.90	31.03.92	0.040
01.04.92	01.04.93	0.060
02.04.93	06.08.96	0.090
07.08.96	04.11.97	0.105
05.11.97	03.02.98	0.125
04.02.98	03.04.01	0.145
04.04.01	02.04.02	0.165
03.04.02	01.04.03	0.185
02.04.03	06.04.04	0.215
07.04.04	05.04.05	0.265
06.04.05	04.04.06	0.315
05.04.06	03.04.07	0.365
04.04.07	now	0.415

Central Road Safety Fund (CRSF)

All Grades

From	To	ZAR/ litre
01.01.87	02.04.96	0.002
03.04.96	now	0

Prices shown refer to the price for the Coast region for Premium Leaded 98 (consumed from 1989 onwards) and 97 RON (consumed prior to 1989) and for Premium Unleaded. Prices for Regular Leaded refer to the Reef region.

Specifications

Grade/Octane:	Prem. Leaded 98 RON Regular Leaded 93 RON Premium Unleaded 95 RON
Density:	0.723 t/kl (average)
NCV:	10 730 kcal/kg

NATURAL GAS**Specifications**

Quality: Sasol Gas Tariff A

COAL*Steam Coal for Industry*

Price shown is the local coal price sold to industries.

Specifications

Quality: Bituminous coal
NCV: 5 804 kcal/kg

Steam Coal for Electricity Generation

Price shown is weighted average cost of coal consumed by ESKOM for electricity generation.

Specifications

Quality: Low-grade bituminous coal
NCV: 4 801 kcal/kg

Steam Coal for Households

Price shown is the local coal price of bituminous coal sold to merchant/domestic customers.

ELECTRICITY*Industry*

Prices shown are for direct sales by Eskom to industry.

Households

Prices do not include VAT and refer to direct sales by Eskom for domestic use and street lighting.

THAILAND

OIL PRODUCTS

Where available, prices shown are quarterly averages of weekly retail prices in Bangkok. When not available, prices are the quarterly average of monthly reference prices.

Excise Tax: See excise tax column for amount. The excise tax shown consists of the ex-refinery excise and municipal taxes.

Special Taxes

Municipal Tax: The municipal tax is levied at approximately 10% of the excise revenue. Amounts are included with the excise tax.

Sources: From 3Q98 onwards, Energy Information Division, Energy Policy and Planning Bureau, Ministry of Energy. Prior to 2Q98, annual prices from *Oil and Thailand*, annual report.

High Sulphur Fuel Oil

Specifications

Quality:	Fuel oil type 2
Viscosity:	1 500
Density:	0.990 t/kl
Sulphur content:	> 2.0%
NCV:	9 405 kcal/l

Low Sulphur Fuel Oil

Specifications

Quality:	Fuel oil type 1
Viscosity:	600
Density:	0.985 t/kl
Sulphur Content:	< 2%
NCV:	9 405 kcal/l

Light Fuel Oil for Households

Specifications

Quality:	Kerosene
Density:	0.84 t/kl
Sulphur Content:	0.2%
NCV:	8 250 kcal/l

Automotive Diesel Oil for Commercial Use

Specifications

Quality:	High Speed Diesel, HSD
Density:	0.87 t/kl
Sulphur Content:	0.05%
NCV:	8 700 kcal/l

Gasoline

Specifications (all grades)

Lead Content:	0.013 g/l
Sulphur Content:	0.1%
Density:	0.72 t/kl
NCV:	0.752 t/kl

NATURAL GAS

Specifications

NCV:	8 617 kcal/m ³
------	---------------------------

Source: Ministry of Science, Technology and Environment, Department of Energy Promotion and Development, *Thailand Energy Situation 2004*.

COAL

Steam Coal for Industry

Prices refer to the average import price for bituminous, anthracite, coke, briquettes, and other coal. Prior to 1993, prices shown are end-use prices.

Sources: From 1994 onwards, Ministry of Science, Technology and Environment, Department of Energy Promotion and Development, published in *Thailand Energy Situation 2004*. Prior to 1993, *Energy Indicators of Developing Member Countries*, Asian Development Bank.

Specifications

NCV:	6 242 kcal/kg
------	---------------

ELECTRICITY

Prices shown are the average unit price of electricity sold within and outside the MEA (Metropolitan Electricity Authority).

Source: Ministry of Science, Technology and Environment, Department of Energy Promotion and Development, *Electric Power in Thailand 2004*.