

ELECTRICITY PRICES

1980-1987



Theme

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4

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SYMBOLS AND ABBREVIATIONS

-/ Nil
0 Data less than half the unit used
. No data available
% Per cent

V Volt
kV Kilovolt (= 1 000 V)
kVA Kilovoltampere
kW Kilowatt
h Hour
kWh Kilowatthour
GWh Gigawatthour (10^6 kWh)
n Number

DM	pf	German mark, Pfenning = 1/100 DM
FF	cent	French franc, Centime
Lit		Italian Lira
HFL	cent	Dutch guilder, cent
BFR		Belgian franc
LFR		Luxembourg franc
UK£	p	Pound sterling, penny = 1/100 UK£
IR£	p	Irish pound, penny = 1/100 IR£
DKR	øre	Danish crown, øre = 1/100 DKR
DR		Greek drachma
PTA		Peseta
ESC		Escudo
PPS		Purchasing power standard
ECU		European currency unit

EUR 12 Total of the member countries of the
European Communities

Eurostat Statistical Office of the European Communities

I. INTRODUCTION

The present publication is a complete updating of the study "Electricity Prices 1980-1986" published by Eurostat in 1986.

It contains the most recent prices, valid in 1987 together with a time series going back to 1980.

The text concerning each country has been limited to a description of recent tariff changes affecting prices in January 1987 and a short analysis of the results. In some instances reference is made to "Electricity prices 1980-1986" or "Electricity prices 1980-1985" wherein a more detailed description of the tariffs may be found and which also describe the structure of the electricity industry.

The definitions and methods remain the same as those used in previous studies, so that the formation and development of electricity prices can be observed over a very long time series.

For reasons of economy this publication is only available in two languages : English and French.

The survey on which the study is based was conducted by the Statistical Office of the European communities and would not have been possible without the cooperation of the electricity companies and professional associations, to whom we express our sincere thanks.

II. CONDITIONS AND METHODS

1. SCOPE AND LOCATIONS

The present study aims to show the actual price of electricity paid by the consumer in the member countries of the European Community.

The prices are recorded at the beginning of each year based on the tariffs, contracts, conditions and rules in force at that time.

It is concerned with the actual price paid by the electricity consumer, corresponding to the invoiced delivery price to the consumer at the beginning of each year including any eventual rebates and subsidies. Our consumers are defined as those who purchase electricity for their own use and exclude those who offer it for resale. We have not considered the bulk price paid by the electricity distributors.

As regards consumers, the study considers all types of customers supplied through the public distribution network with low, medium and high-voltage electricity. In the interests of simplified presentation, consumers are subdivided into two groups, one for domestic and the other for industrial users. The survey does not cover certain industrial consumers :

- (i) who themselves produce part of their electrical energy requirement;
- (ii) who purchase electricity under special contract terms because of their exceptionally high power requirements and consumption demand.

These exceptions are mainly steelmaking and chemical enterprises, enterprises engaged in the production of aluminium and other metals by electrolysis, railways, etc.

Most of these enterprises consume over 10 million kWh annually. They are few in number, but nevertheless consume an appreciable part of the total electrical energy supplied.

In order to reflect as accurately as possible the real position of consumers, it seemed advisable to record prices at selected locations, i.e. towns, conurbations or distribution networks, rather than give average prices per country.

The choice of location is decided by several criteria, namely, population, economic importance, different tariff districts, even geographical coverage of a country, harmonization with the locations used in statistics relating to the prices of other sources of energy, particularly gas.

The prices were recorded in the following towns or conurbations :

FR of Germany : Hamburg, Hanover, Düsseldorf, Frankfurt am Main, Stuttgart, Munich, Western Zone, Southern Zone.

France : Lille, Paris, Marseille, Lyon, Toulouse, Strasbourg.

Italy : Northern and central Italy, southern Italy and the islands.

Netherlands : Rotterdam (GEB), North Holland (PEN), North Brabant (PNEM).

Belgium : The country as a whole (standard national tariff).

Luxembourg : Grand Duchy (Cegedel).

United Kingdom : London, Glasgow, Leeds, Birmingham.

Ireland : Dublin.

Denmark : Copenhagen (KB), North Zealand (NESA).

Greece : Athens (standard national tariff).

Spain : Madrid (standard national tariff).

Portugal : Lisbon.

Certain towns selected are representative of larger regions which is indicated in the chapter concerning each country.

2. STANDARD CONSUMERS

The survey is based on the system of standard consumers, i.e. the prices are recorded for certain levels of electricity consumption and under certain conditions of supply, chosen as being representative of the population of electricity consumers. These standard levels of consumption remain fixed from one year to the next and for all the countries, this being one of the primary conditions for spatial and temporal comparability of prices.

Two families of standard consumers are taken : domestic uses and industrial uses.

Five domestic standard consumers (supply at low voltage) coded D_a to D_e have been taken :

Standard consumer	Annual consumption kWh		Approx. subscribed demand in kW	Standard dwelling
	Total	(of which night)		
D _a	600	-	≤ 3	50m ² 2 rooms+kitchen
D _b	1 200	-	3 - 4	70m ² 3 rooms+kitchen
D _c	3 500	(1 300)	4 - 9	90m ² 4 rooms+kitchen
D _d	7 500	(2 500)	6 - 9	100m ² 4 rooms+kitchen
D _e	20 000	(15 000)	> 9	120m ² 5 rooms+kitchen

As a guideline these standard consumers may be expected to possess the following household facilities and appliances :

- D_a Lighting, (1) radio, television, refrigerator, small electric appliances;
- D_b as for D_a plus washing machine or dishwasher;
- D_c D_d as for D_b with washing machine and dishwasher plus storage water heater;
- D_e "all-electric" system with water heater and electric central heating operating on a storage basis.

Seven industrial standard consumers (for voltage see point 4) coded I_a to I_g have been taken :

Standard consumer	Annual consumption kWh	Maximum demand in kW	Annual load factor h
I _a	30 000	30	1 000
I _b	50 000	50	1 000
I _c	160 000	100	1 600
I _d	1 250 000	500	2 500
I _e	2 000 000	500	4 000
I _f	10 000 000	2 500	4 000
I _g	24 000 000	4 000	6 000

(1) E.g. : vacuum cleaner, electric toaster, hair dryer, food mixer, coffee grinder, etc.

The maximum demand is the maximum offtake in any quarter of an hour recorded in one year, expressed in kilowatts (kW). The price of supply is calculated for $\cos\varphi = 0.9$. The annual load factor determines the regularity of consumer offtake of electricity from the grid during the year. The longer this time the more even the pattern of consumption during the 8 760 hours of the year. It indicates the number of hours in which the consumer would reach his annual consumption level if the demand level were permanently equal to maximum demand.

Additional details are sometimes needed before the tariffs can be applied :

- (i) In the case of tariffs based on half hourly maximum demand, the maximum demand of the standard consumer is multiplied by a coefficient of 0.98.
- (ii) In the case of tariffs based on a maximum demand expressed in kVA an adjustment is made by dividing the standard consumer's maximum demand in kW by the coefficient $\cos\varphi = 0.90$.
- (iii) In the case of tariffs based on maximum demand readings more frequent than once a year the standing charge is multiplied by the following coefficients :

Table of power correction coefficients

Standard consumers	: I _a	I _b	I _c	I _d	I _e	I _f	I _g
Annual load factor	: 1 000h	1 600h	2 500h	4 000h	6 000h		
Maximum monthly demand	0,81	0,83	0,85	0,90	0,96		
Maximum two-monthly demand	0,83	0,85	0,87	0,91	0,97		
Maximum three-monthly demand	0,86	0,88	0,90	0,95	0,98		
Average of the three highest values for max. monthly demand	0,94	0,95	0,96	0,98	0,99		
Average of the two highest values for max. monthly demand	0,96	0,97	0,98	0,99	0,995		
Annual max. demand (basic principle)	1	1	1	1	1		

A harmonized table for consumption during "off-peak" periods has also been compiled in order to be able to calculate prices when tariffs vary according to the time of the day (e.g. lower tariff during the night).

Standard consumer	Annual load factor	Annual consumption	Annual consumption (in 1 000 kWh) charged at off-peak rates according to the average daily duration of off-peak periods							
			h	1 000 kWh	7 h	8 h	9 h	10 h	11 h	12 h
I _a	1 000	30	0	0	0	0	0	0	0	0
I _b	1 000	50	0	0	0	0	0	0	0	0
I _c	1 600	160	11	13	16	19	22	25		
I _d	2 500	1 250	197	225	262	300	338	375		
I _e	4 000	2 000	438	500	580	660	740	820		
I _f	4 000	10 000	2 190	2 500	2 900	3 300	3 700	4 100		
I _g	6 000	24 000	7 140	8 160	9 120	10 080	11 040	12 000		

If off peak rates are charged during other periods, for example all day Sunday we have only taken one half as supplementary off peak hours. Such cases are mentioned as they occur in our study.

Account has not been taken of changes in tariff parameters during the course of a year. In other words no weighted price is calculated for a year.

3. DEFINITION OF THE PRICE LEVELS RECORDED

All prices are shown per unit of electricity sold, that is per kilowatt hour (kWh). The results represent the unit price actually paid at the beginning of each year and take account of the relevant tariff, parameter, index, etc. applicable as from 1 January. In the case of tariffs or contracts with short term indices (month, quarter) it is the index which is in force during January which is applied. This means that any changes in the tariff structure during the year are not taken into account, i.e no price weighting is applied to the year. The prices include meter rental, the standing charge and the commodity rate. They do not include the initial installation charge to the consumer.

If there are several possible tariffs, it is the tariff which is most advantageous to the consumer that is taken into account, after the elimination of the tariffs which are not used in practice or which apply only to a marginal or negligible number of users.

When there are only quasi-tariffs, special contracts, or freely negotiated prices, the most commonly found price (most representative) for the given supply conditions has been recorded. In the case of freely negotiated prices or contracts, the returns relate respectively to the bills paid during the month of January or to the prices resulting from the contracts in force during that month. Such cases are mentioned and explained in the body of our study.

In the case of a consumer having two separate meters or a switch meter (e.g. to record night and day consumption), the price reflects total consumption.

Account has been taken of special tariff or supplementary arrangements which may exist for reactive power.

Three price levels are shown :

- (i) the price net of tax;
- (ii) the price excluding VAT but including all other taxes;
- (iii) the selling price (inclusive of all taxes).

The price excluding tax is obtained directly from the tariffs or contracts.

The price excluding VAT includes, where payable, other specific taxes which is interesting in cases where VAT is deductible.

The price inclusive of all taxes corresponds to the sum paid by the consumer.

"Taxes" is used here to mean fiscal and para-fiscal levies applying directly to electricity at the stage of sale at the consumer. These taxes may be levied at the national, regional, local or municipal level, etc. by the State, regional or local administrations, professional associations, etc.

On the other hand, the taxes levied before the sale of the electricity, such as taxes on companies, profits, wages, etc., which are obviously part of the production or distribution costs, are not calculated separately. They remain an integral part of the price excluding tax.

The results for each country are shown in national currencies at current prices, i.e. at face value.

For the purposes of international comparison, it was necessary to use a representative common monetary unit which would create a minimum of distortion in both space and time. Accordingly, the present study uses the purchasing power standard (PPS). The comparative tables are also shown in European currency units (ECU).

These units of value are explained in the following chapter.

4. TARIFF VOLTAGE

The voltage at which electricity is supplied to the consumer is an element which may affect the industrial price levels. The higher the voltage, the lower the price. But in this case, the consumer has to bear the expense of the electricity transformer (the investment cost or the rental).

In practice the supply voltages vary according to the grid and the tariffs. According to our general definitions, the voltage taken into account is the one at which electricity is commonly supplied to the consumer.

Where several supply voltages coexist for the same category of users it is the most representative (greatest number of users) which is considered.

The table below gives the tariff voltages according to which the prices for the industrial standard consumers have been calculated.

Voltage applied to industrial standard consumers

kV

Standard consumers	I _a	I _b	I _c	I _d	I _e	I _f	I _g
FR of Germany							
- Süd Gebiet	0,38				20		/
- Hamburg, Hannover, Düsseldorf, Frankfurt	0,38				10		/
- West Gebiet Stuttgart, München			10				/
France	0,38				15		40-130
Italy	0,38		≤ 50				
Netherlands							
- GEB	0,38				10	25	
- PEN	0,38			10			
- PNEM			10				
Belgium			10/15				
Luxembourg			10/15		65		
United Kingdom	0,415			11			
Ireland	0,38			10	38		
Denmark	0,40		≤ 10		10		
Greece	0,38		6,6		20	22	
Spain	≤ 1		> 1-36		36-72,5		
Portugal	1		> 1 < 60			≥ 60	
	I _a	I _b	I _c	I _d	I _e	I _f	I _g

III. UNITS OF VALUE

To permit comparisons between countries, prices expressed in national currencies need to be converted to a common unit. In this study two common units are used :

- (i) the European currency unit (ECU);
- (ii) the purchasing power standard (PPS).

1. THE EUROPEAN CURRENCY UNIT (ECU)

The ECU is a basket-type currency unit based on the market exchange rates of a certain amount of each of the Community currencies, weighted according to the gross national product and intra-Community trade of each Member State.

In 1984, this weighting was revised on the accession of Greece and will remain in force until further notice.

The new composition of the ECU basket is as follows:

DM 0.719	LIT 140	FF 1.31	DKR 0.219	HFL 0.256
IR£ 0.00871	BFR 3.71	UK£ 0.0878	LFR 0.14	DR 1.15.

The conversion rates for the ECU against the national currencies in January of each year are given in a table in the Statistical Annex.

The definition of the ECU is such that it reflects fluctuations in exchange rates and is suitable for measuring the prices and values of international flows of goods and services. Data expressed in ECU therefore permit the comparison of prices in terms of money changed at a bank. Such currency conversion at the market exchange rates, however, has the disadvantage that it fluctuates in time under the influence of many factors which are independent of internal price movements :

- (i) capital transfers;
- (ii) political decisions;
- (iii) regulations;
- (iv) speculation;
- (v) interest rates.

2. THE PURCHASING POWER STANDARD (PPS)

The PPS is a reference unit so calculated that its value in relation to the various national currencies is proportional to the purchasing power parities (PPP) between these currencies.

The purchasing power parities reflect the ratios between price levels in the different countries. The ratios between the prices expressed in national currencies are calculated for each of the products included in the uses of the GDP. If these ratios are suitably weighted, one obtains mean price ratios, the most general of which is the mean calculated for the GDP and known as the PPP at GDP level.

Such parities would be adequate to express all the data in real terms in the currency of any one of the countries considered. The method ensures that they are transitive and unaffected by the country chosen as a basis of reference. For Community calculations another reference unit known as the PPS is used. It is defined by applying the price ratios to the GDP of the various countries expressed in national currency and adjusting the parities so that the value of the GDP of the Community as a whole in 1975 is identical whether expressed in ECU or PPS. Only the proportion accounted for by each country will be different.

When prices are converted to PPS using the GDP parity, the result may be interpreted as follows :

If one gigajoule of energy costs 10 PPS in country A and 5 PPS in country B, this means that after allowance has been made for the differences between the general level of prices in the two countries, this gigajoule of energy is twice as expensive in country A as in country B.

This conclusion is independent of market exchange rates, which are influenced by factors other than the level of prices (movements of capital, speculation, interest rates, political decisions, etc.).

The conversion rates for the years covered by the study are given in a table in the annex. They were revised when the base year was changed.

3. PRICES IN CURRENT PPS AND CONSTANT PPS

The price surveys required to calculate purchasing power parities are not carried out every year. The most recent available is that for 1980 and another is planned for 1985. Since the parities are price ratios, however, their value for the other years may be estimated by extrapolation using the movement of the GDP price indices for the various countries, referred to as the Community average. These are known as "current parities".

The data can also be converted into base year PPS. If price series deflated by the GDP price index for each country are expressed in base year PPS, one obtains an indication of the change in prices for the product in question in relation to the general level of prices in the country. The data so calculated can also be compared between countries, giving the same results in relative terms as will be obtained using current prices and current PPP, since the latter are extrapolated using the same indices, namely, the GDP price indices for each country and the average Community index.

Calculation using deflated PPS is thus carried out as follows :

1. The prices of the time series in current national currency are divided by one hundredth of the GDP price index of each of the years concerned;
2. This deflated series is converted to PPS using the conversion factor of the base year 1980.

4. PRICE SERIES

In the light of the foregoing, the results of this survey of Community prices are given in three forms :

1. a series of current prices in the national currency for each country;
2. a series in current ECU using the conversion rates for January of the year concerned;
3. a series in "deflated" PPS (base year 1980), which allows prices to be compared for different times and places.

IV. TAXES

In the Community, sales of electricity are subject to a general indirect tax, value added tax (turnover tax applicable to domestic consumption only, in Greece up to and including 1986).

Furthermore, specific taxes are levied in seven countries.

The prices inclusive of all taxes shown in this study comprise all the taxes mentioned above. In the tables in the annex, the amount of any specific taxes can be calculated from the difference between the tax-exclusive and VAT-exclusive price, while the difference between the total tax-inclusive price and VAT-exclusive price gives the amount of value-added tax (or turnover tax for Greece) in national currency per kWh.

1. GENERAL INDIRECT TAX

In general, VAT is calculated and applied to the price excluding VAT but including any specific taxes, these being part of the basis of assessment. France constitutes an exception since VAT is computed on the price excluding specific taxes.

The rates are as follows :

Value-added tax on electricity sales

(% of price before VAT)

January	1980	1981	1982	1983	1984	1985	1986	1987
FR of Germany	13	13	13	13	14	14	14	14
France	17,6	17,6	17,6	18,6	18,6	18,6	18,6	18,6
Italy (domestic)	6	8	8	8	8	9	9	9
Italy (non-domestic)	14	15	15	18	18	9/18	9/18	9/18
Netherlands	18	18	18	18	19	19	19	20
Belgium	16	16	17	17	17	17	17	17
Luxembourg	5	5	5	5	6	6	6	6
United Kingdom	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0
Denmark	20,25	22	22	22	22	22	22	22
Greece	8(1)	8(1)	8(1)	10(1)	10(1)	10(1)	10(1)	18
Spain	-	-	-	-	-	-	12	12
Portugal	-	-	-	-	-	-	8	8

(1) turnover tax

In Italy, the new VAT rates depend on the activity; 9 % for extractive and manufacturing industries, including printing and publishing, and 18 % for other non-domestic activities. In this study 18% has been applied for simplicity's sake to standard consumers I_a and I_b and 9% to $I_c - I_g$.

VAT is deductible for industrial and commercial consumers registered for the purposes of value added tax.

2. SPECIFIC TAXES

(a) Federal Republic of Germany

Since 1 January 1975 a compensatory tax (Ausgleichsabgabe) has been levied to promote the use of Community coal in power stations, the rates of which vary according to region :

	(% of price before tax)							
	1980	1981	1982	1983	1984	1985	1986	1987
Hamburg	5.1	5.1	4.7	3.8	3.9	3.9	3.6	4.9
Hannover	4.3	4.2	4.0	3.3	3.4	3.4	3.2	4.5
Düsseldorf	5.3	5.3	4.8	4.0	4.0	4.0	3.7	5.0
Western Zone	5.3	5.3	4.8	4.0	4.0	4.0	3.7	5.0
Frankfurt/Main	4.1	4.0	3.8	3.2	3.2	3.3	3.1	4.3
Stuttgart	4.0	4.0	3.7	3.1	3.2	3.1	2.9	3.9
München	4.0	4.0	3.9	3.2	3.2	3.3	3.1	4.3
Southern Zone	4.0	4.0	3.9	3.2	3.2	3.3	3.1	4.3
Federal average	4.5	4.5	4.2	3.5	3.5	3.5	3.3	4.5

(b) France

The rates and basis for the assessment of municipal and departmental taxes on electricity supplies were modified by the law of 29 December 1984 though the change only came into effect in March 1985 and affected prices in our study in January 1986. The basis of assessment is now as follows :

Subscribed demand kVA	kW	% of tax excl. price	Standard consumers
< 36	< 32.4	80	D _a -D _e I _a
36-250	32.4-225	30	I _b I _c
> 250	> 225	0	I _d ...I _g

Previously the taxes were applied to 80% of the tax exclusive price for low voltage supplies (standard consumers D_a-D_e).

The maximum rate permitted by the law is 12% with however an exception for Paris. The following table summarises the rate of the municipal and departmental taxes during the period studied :

Locations	Municipal tax		Departmental tax		Total	
	1980/85	1986/87	1980/85	1986/87	1980/85	1986/87
Lille	8	8	1	2	9	10
Paris	13.2	13.2	-	-	13.2	13.2
Marseille	8	8	4	4	12	12
Lyon	8	8	-	4	8	12
Toulouse	8	8	2	4	10	12
Strasbourg	-	-	4	4	4	4

(c) Italy

Electricity consumption is subject to a State tax (imposta erariale), the rates of which have been as follows since 1981 :

Region	Domestic	Non-domestic	
		≤ 200 000 kWh/month	> 200 000 kWh/month
North and centre	1.10	1.10	0.65
South and islands	0.55	0.55	0.325

Certain types of consumption are exempt from this tax : electro-chemical, electro-metallurgical, public lighting, railways.

(1) A more complicated system was in force before 1981

Furthermore, at the end of 1982 local taxes were introduced as follows:
(LIT/kWh)

Users	Municipalities				Provinces			
	1983	1984	1985	1986/87	1983	1984	1985	1986/87
Domestic for the block >75 kWh/month	10	11	12	13	-	-	-	-
Non-domestic <1 000kW/month	4	4.5	5	5.5	4	4.5	5	5.5

All these taxes are included in the basis of assessment to VAT.

(d) Denmark

A special government tax on electricity was introduced in April 1977, the rates of which were as follows :

1.1.80-29. 6.80	8	Øre/kWh	1.1.83-31.12.85	15.50 Øre/kWh
30.6.80-14. 6.82	12.50	Øre/kWh	1.1.86-31.12.86	19.00 Øre/kWh
15.6.82-31.12.82	14.30	Øre/kWh	1.1.87-...	32.50 Øre/kWh(1)

(1) reduced to 29.0 Øre/kWh for consumption in excess of 4 000 kWh/year for homes with electric heating (D_e).

This tax is included in the assessment to VAT and is deductible in the same way as VAT.

(e) Greece

From 1984 until 31.12.86 a stamp duty of 1.2 % which is taken into account in calculating turnover tax was applied to the tax exclusive selling price of electricity to domestic consumers only.

(f) Spain

Several specific taxes were applied during the period 1980-1985. These taxes which were abolished on 31.12.85 may be summarised as follows :

Period	Sector	Special tax PTA/kWh	IGTE %	Provincial tax %	Municipal tax %
1/1980	Households	-	1.5	0.075	1.5
1/1981	Industry	-	5.0	0.250	1.5
1/1982	Households	0.23	1.5	0.075	1.5
	Industry	0.23	5.0	0.250	1.5
1/1983	Households	0.27	1.5	0.075	1.5
	Industry	0.27	5.0	0.250	1.5
1/1984	Households	0.29	6	0.3	1.5
	Industry	0.29	6	0.3	1.5
1/1985	Households	0.35	6	0.3	-
	Industry	0.35	6	0.3	-

The three proportional taxes are calculated on the tax exclusive price and are not cumulative. The IGTE is a general transaction tax. The municipal tax is a charge for the area occupied by the aerial or underground lines within the urban conurbations. This tax is not shown separately from October 1984 onwards. Instead it is taken as a general cost and included in the tariffs, nevertheless the distributors continue payment of the tax to the communes. Only consumers within the urban territory were subject to this tax. A large number of medium and large industries outside this area were therefore exempt. On average the effective rate was only 0.8% for industry in general and 0.6% for industry supplied in high voltage (>1kV).

For simplicity in this study we have taken the full rate of the municipal tax (1.5%) for all domestic and small industrial/commercial consumers ($I_a - I_c$) whilst the other industrial standard consumers ($I_d - I_g$) were considered to be outside the urban territory.

From 1 January 1986 the various taxes were replaced by value added tax.

g) Portugal

An inspection tax which is included in the basis of assessment to VAT is levied at the following rates :

	Households	Industry
6.8.76 - 22.4.82	2.50 esc/month	12.50 esc/month
23.4.82 -	7.50 esc/month	37.50 esc/month

V. ELECTRICITY PRICES IN THE VARIOUS COUNTRIES

1. FR of Germany
2. France
3. Italy
4. Netherlands
5. Belgium
6. Luxembourg
7. United Kingdom
8. Ireland
9. Denmark
10. Greece
11. Spain
12. Portugal

1. F.R. GERMANY

a) Household prices - tariffs

A detailed description of the tariff system may be found in "Electricity prices 1980-1985".

b) Household prices - analysis

The prices for the 8 cities surveyed are shown in tables 1-4 in annex.

With the exception of Dusseldorf, Western Zone and Stuttgart tax exclusive prices remained unchanged from January 1986 to January 1987. However in all regions the compensatory tax (Ausgleichsabgabe) increased slightly (+1%) whilst VAT remained unchanged resulting in increases of 1-4% in the tax inclusive prices.

The total increase between 1980 and 1987 ranged from 32-60% depending on the level of consumption and the region with the larger consumers generally bearing the largest increases. Nevertheless electricity is more expensive in real terms for all consumers in 1987 than in 1980 as inflation, as measured by the implicit GDP price index was only 23% in the same period.

Tariff degressivity, which remains wide has been reduced slightly from 69-76% in 1980 to 67-75% in 1987 (comparison price D_a/D_e).

The range between extreme prices varies from 9-27% according to the level of consumption in 1987, being more pronounced for "heating" users (D_e) than for the small consumers (D_a, D_b) and has grown since 1980. This is due to the independence of companies to formulate their tariffs based on costs.

c) Industrial prices - tariffs

"Electricity prices 1980-1985" contains a detailed description of the tariff system.

d) Industrial prices - analysis

Tables 5-8 in annex give the prices for the 8 cities surveyed. It should be noted that the analysis is based on the price excluding VAT but including the compensatory tax. With the exception of the Western Zone and Stuttgart where prices rose by 3-5% between January 1986 and January 1987 the rises in the other cities (1%), which were due mainly to increases in the compensatory tax were below the rate of inflation for the period.

However the total increases since 1980 ranged from 32-54% which in the light of inflation of only 23% has meant that for many consumers electricity is twice as expensive in real terms in 1987 than in 1980.

Regional price differences are greater for the small consumers (24% between extreme prices for I_g) than for the large consumers (14% for I_f) and result from the liberty of the distribution companies to establish their tariffs based on costs.

For international comparison we have chosen Düsseldorf to ensure harmonization with household prices and other sources of energy (gas prices for example).

Tariff degressivity has changed little throughout the period studied with the standard consumer I_g paying 42-53% less per kWh than I_c .

2. FRANCE

a) Household prices - tariffs

The "blue" tariff introduced after the revision of the tariff system is still in effect, though it was modified on 16 April 1986 (valid in January 1987).

		Normal tariff		Off peak hours option	
Standard consumers	Subscribed demand kVA	Standing charge FF/year	Commodity rate c/kWh	Standing charge FF/year	Commodity rate Peak hours Off peak hours (2)
D _a	D _b ≤ 3 (1)	133.92	60.11	-	
D _c	6	399.84	↑	681.00	
D _d	9	769.20		1 103.40	
D _e	12	1 125.60	49.69	1 551.24	
	15	1 482.00	↓	1 999.08	
D _e	18	1 838.40	↓	2 446.92	49.69
	24	-	-	3 682.44	28.42
	30	-	-	4 917.96	
	36	-	-	6 153.48	

(1) small supplies tariff

(2) 8 hours

Standard consumers D_c, D_d and D_e are charged according to the off peak hours option.

For more details see Electricity prices 1978-1984, ISBN 92-825-5166-0.

b) Household prices - analysis

The prices for the 6 cities surveyed are given in tables 9-11 in annex. Tax inclusive prices in Paris have evolved as follows with minor differences for the other cities due to different tax rates :

	D _a	D _b	D _c	D _d	D _e
% 1987/1986	-1	-1	-1	-1	-1
% 1987/1980	+35	+59	+70	+73	+75

c) Industrial prices - tariffs

The tariff system introduced on 15 February 1984 remains in force at the beginning of 1987 with the following rates introduced on 16 April 1986.

There are three tariffs for professional and industrial uses :

Tariff	Professional	Yellow	Green
Application	low voltage ≤ 36kVA	low voltage 36-250kVA	med.voltage > 225 kVA
Standard consumers	I_a	I_b, I_c	I_d, I_e, I_f, I_g

Professional tariff

Demand kVA	Standing charge per month		Commodity rate c/kWh		
	Without off-peak	With off-peak	First block ⁽¹⁾	Surplus	Off-peak ⁽²⁾
6-24	41.16 FF +11.16 FF/kVA	45.08 FF +13.33 FF/kVA	53.08	49.69	28.42
≥ 24	48.02 FF +19.12 FF/kVA	68.61 FF +21.96 FF/kVA	-	49.69	28.42

(1) The first block is 25 times the subscribed demand, rounded off in units of 3 kVA.

(2) In principle, off-peak hours are 22-6 h.

The yellow and green tariffs can be summarised as follows :

Load factor	Annual standing charge	Commodity rate c/kWh					
		winter		summer			
		High peak hours	Peak hours	off-peak hours	Peak hours	Off-peak hours	
- Yellow	FF/kVA ¹						
> 4 000 h	362.64	/	60.40	27.34	17.58	9.76	
≤ 4 000 h	117.12	/	88.58	38.50	18.97	10.18	

- Green	FF/kW					
> 6 000 h	839.72	41.71	32.64	23.16	13.25	9.35
4 000-6 000 h	548.19	60.96	44.64	24.13	16.04	9.49
1 800-4 000 h	345.93	106.58	54.21	25.26	17.33	10.35
< 1 800 h	111.59	148.60	74.88	33.67	21.36	11.76

Reactive energy penalty = 12.00c/kVarh

¹ Rounded up in multiples of 6 kVA up to 108 kVA and in multiples of 12 kVA thereafter.

The tariff periods are now the same for the yellow and green tariffs. Summer extends from April to October. The winter peak covers four hours per day (9-11 h and 18-20 h) from December to February whilst off peak hours comprise eight hours per day and the whole of Sunday. In order to calculate prices a complete breakdown between tariff periods is necessary. The following which results from the average distribution in France has been applied.

Load factor	1 000 h	1 600 h	2 500 h	4 000 h	6 000 h	%
Winter high peak	/	/	6.44	5.17	4.13	
Winter peak hours	55.5	43.38	30.60	26.55	22.38	
Winter off-peak hours	-	2.81	9.28	12.15	15.73	
Summer peak hours	44.5	50.31	41.52	38.68	34.88	
Summer off-peak hours	-	3.50	12.16	17.45	22.87	
TOTAL	100	100	100	100	100	

d) Industrial prices - analysis

Tables 12 and 13 in annex show the prices for the 6 cities surveyed. VAT exclusive prices in Paris have evolved as follows which is typical of the country as a whole.

	I _a	I _b	I _c	I _d	I _e	I _f	I _g
% 1987/1986	-1	-1	-1	-1	-1	-1	-1
% 1987/1980	+124	+90	+81	+71	+62	+65	+61

3. ITALY

a) Household prices-tariffs

The tariffs in force in January 1987 are as follows :

Demand kW	Standing charge LIT/month	Price per block ≤ 75 LIT/kWh	kWh/month 76-150 LIT/kWh	kWh/month > 150 LIT/kWh	Thermal surcharge LIT/kWh
$\leq 1,5$	1 500	37,10	62,10	112,10	25,90
1,5 - 3	4 300	38,10	80,10	112,10	25,90
3 - 4,5	10 890	← 112,10 →			32,70
4,5 - 6	14 520	← 112,10 →			32,70
6 - 10	24 200	← 112,10 →			32,70

b) Household prices - analysis

Table 14 in annex gives the prices recorded.

The trend of price increases since 1980 was broken during 1986 when prices fell by 9-23% between January 1986 and January 1987, due mainly to the decreases in the thermal surcharge. However the increases recorded since 1980, ranging from 104-131% were broadly in line with inflation of 118% in the same period.

The progressive nature of the tariff system leads to a situation where a large consumer using 7 500 kWh per year (D_d) pays twice as much per kWh as a small consumer using 600 kWh per year (D_a). This combined with the absence of a night tariff mitigates against the use of electricity for space heating which is rare and the market accounted for by natural gas and heating oil which are more competitively priced. Thus no price is shown for the standard consumer D_e .

Prices in the south and islands remain slightly lower, solely on account of the lower treasury tax since tax-exclusive prices are the same throughout the country because of the standard national tariff. The tax burden increases with consumption, representing 10 % of the price paid by a small consumer (D_a) and 18% for a large consumer (D_d) in 1987.

c) Industrial prices - tariffs

The tariffs introduced in 1984, of which a detailed description is given in "Electricity prices 1980-1985" remain in force with changes only in the thermal surcharge which has 4 rates in January 1987 :

LIT/kWh

Low voltage	500 kW	Medium voltage				500 kW	3000 h
		500 kW	3000 h	500 kW	3000 h		
36.60	32.70			33.20			3.10

d) Industrial prices - analysis

The prices are shown in table 15 in annex.

It should be noted that the analysis is based on the price excluding VAT but including the specific taxes.

Between January 1986 and January 1987 prices fell by 17-23%.

The tariffs are standard over the national territory with the exception of small non-domestic users whose demand does not exceed 30 kW; a rebate is accorded to those in the southern zone and the islands. This gives rise to regional price differences of the order of 19% in 1987. For other users, the difference between regions is minimal and derives exclusively from tax abatement.

Increases of 68-173% were experienced between 1980 and 1987 whilst the implicit gross domestic product price index rose by 118% thus making electricity more expensive in real terms for the standard consumer I_a in 1987 than in 1980.

4. NETHERLANDS

a) Household prices - tariffs

A detailed description of the tariff system is given in Electricity prices 1980-1986. The tariffs for small users, valid at the beginning of 1987 are shown below :

	Rotterdam		North Holland		North Brabant	
- Standing charge HFL/year						
(single meter	69.36	57			67.80	
(supplement for double meter	47.16	33			28.20	
- Commodity rate Cents/kWh						
(day	13.2		11.4		8.9	
(night and off peak	6.1		4.9 (1)		4.2	
- fuel cost variation Cents/kWh	6.05		5.14		6.2	
Definition	Mon.-Fri.					
(night	22h30-8h	8h between +	23h30	23h-7h		
(and +	8h30			
(off peak	Saturday	2h between +	11h30	-		
	Sunday	and +	17h15			
Supplements to						
standing charge	X2	+ 432HFL/year			+ 216 HFL/year	
	if 3 phase	if 23,1kVA			if \geq 35 A	
	and > 35 A	(2))				
(1) minimum consumption 600 kWh/year						
(2) applied to the "all electric" consumer (D_e)						

b) Household prices - analysis

The prices for the three zones surveyed are shown in tables 16 and 17 in annex and have evolved as follows :

	Rotterdam					North Holland					North Brabant				
	D_a	D_b	D_c	D_d	D_e	D_a	D_b	D_c	D_d	D_e	D_a	D_b	D_c	D_d	D_e
%1987/86	-10	-14	-19	-21	-27	-19	-22	-26	-28	-30	-6	-8	-10	-11	-13
%1987/80	+13	+11	+10	+8	+5	+5	-4	-11	-12	-12	+5	+4	+2	+1	-4

The larger decreases/lower increases enjoyed by the larger consumers have served to increase tariff degressivity. The difference between extreme prices has risen from 34-52% in 1980 to 45-56% in 1987. Whilst North Brabant remains the cheapest region the lower decreases in 1986 have narrowed the gap to 18-24% between it and the most expensive.

Electricity in 1987 is cheaper in real terms when inflation of 20% is taken into account, however the average consumption remains low, at 3 020 kWh/year.

c) Industrial prices - tariffs

A detailed description of the tariff system may be found on pages 49-50 of Electricity prices 1980-1986.

d) Industrial prices - analysis

Tables 18 and 19 show the prices for the three zones surveyed which have evolved as follows :

	% 1987/1986							% 1987/1980						
	I _a	I _b	I _c	I _d	I _e	I _f	I _g	I _a	I _b	I _c	I _d	I _e	I _f	I _g
Rotterdam	-11	-15	-20	-22	-25	-28	-29	0	-3	-12	-3	-3	-7	-13
North Holland	-19	-20	-26	-31	-35	-37	-39	+23	+18	-11	-18	-23	-27	-30
North Brabant	+12	+13	-12	-14	-15	-15	-15	+21	+22	-3	-5	-6	-6	-9

Regional price differences have decreased from 34-53% in 1980 to 18-48% in 1987, North Brabant being the cheapest with the exception of standard consumer I_g.

Whilst regional price differences are large so also is the range of prices between small and large consumers in the same area. In 1987, the reduction in unit price between a small consumer (I_a) and a large consumer (I_g) is of the order of 56-66% (tariff degressivity).

5. BELGIUM

a) Household prices - tariffs

Following a recommendation by the "Comité de contrôle de l'électricité et du gaz", low-voltage tariff standing charges, night and social tariff commodity rates were lowered from 1 January 1987. A special social tariff for those of modest means was also introduced. The new values are as follows :

Tariff	Standing charge BFR/year	Commodity rate BFR x kWh	
Normal	1.220 $I_{ndb} N_{DB}$	1.994	$I_{ndb} N_{DB} + 0.685 N_c$
Social	-	3.620	$I_{ndb} N_{DB} + 0.685 N_c$
Day-night	$(1.220 I_{ndb} + 685) N_{DB}$	day 1.994 night 0.775	$I_{ndb} N_{DB} + 0.685 N_c$ $I_{ndb} N_{DB} + 0.563 N_c$
Exclusive night	685 N_{DB}	0.560	$I_{ndb} N_{DB} + 0.563 N_c$
Erasable peak	685 N_{DB}	0.720	$I_{ndb} N_{DB} + 0.685 N_c$

The application of the tariffs and the indices remains as described in Electricity prices 1980-1985.

The values of the indices are as follows in January 1987 :

$$I_{ndb} \quad 1.1440 \quad N_{DB} \quad 1.5900 \quad N_c \quad 1.2642$$

b) Household prices - analysis

Table 20 in annex gives the prices for Brussels which are valid for the whole country. The tax inclusive price trend has been as follows :

	D_a	D_b	D_c	D_d	D_e
% 1987/1986	-5	-5	-6	-6	-9
% 1987/1980	+37	+50	+47	+45	+34

c) Industrial prices - tariffs

Following a recommendation by the "Comité de contrôle de l'Electricité et du gaz" the following modifications were introduced on 1 January 1987 :

- replacement of day/night commodity rates by peak/off peak, the latter being extended to include Sundays and public holidays;
- reduction in off peak commodity rate of two part A tariff;
- introduction of a new seasonal tariff, of interest to consumers who can reduce their demand at peak times.

The two part tariffs can be summarised as follows :

		Two part A (motive power)				Two part B	
Standing charge	BFR x kW x month	Sept.-April 184.6 I _{ndh} N _{DH}				Nov.-Feb. 445 I _{ndh} D _{xN} _{DH}	
		May-Aug. 175.4 I _{ndh} N _{DH}				Mar.Apr. 356 I _{ndh} D _{xN} _{DH}	
						Sept.Oct.	
						May-Aug. 312 I _{ndh} D _{xN} _{DH}	
Commodity rate	BFR x kWh Peak Off peak	1.017 I _{ndh} N _{DH} + 0.642 N _c 0.494 I _{ndh} N _{DH} + 0.542 N _c				0.367 I _{ndh} N _{DH} + 0.642 N _c 0.291 I _{ndh} N _{DH} + 0.542 N _c	
Ceiling price	BFR	(1.278+1.017D) I _{ndh} N _{DH} + 0.642N _c				-	
Minimum price	BFR					3770 N _{DH} /month	
Meter	BFR/month					single 525 N _{DH} double 585 N _{DH}	

The application of the tariffs and the definition of the indices remains unchanged from "Electricity prices 1980-1985".

The following off-peak consumptions were applied :

						kWh
I _c	I _d	I _e	I _f	I _g		
29 200	364 500	744 500	3 722 500	11 092 000		

The values of the indices in January 1987 were :

$$I_{ndh} \quad 1.2390 \qquad N_{DH} \quad 1.4900 \qquad N_c \quad 1.2642$$

d) Industrial prices - analysis

Table 21 in annex gives the prices for Brussels which are valid for the whole country. The VAT exclusive price trend has been as follows :

	I _a	I _b	I _c	I _d	I _e	I _f	I _g
% 1987/1986	-4	-4	-5	-7	-9	-9	-8
% 1987/1980	+45	+44	+39	+38	+35	+40	+47

6. G.D. LUXEMBOURG

a) Household prices - tariffs

A new two period household uses tariff was introduced on 1 January 1987 which is of interest to consumers using less than 5 000 kWh/year during the day. The following tariffs were thus applied to our standard consumers :

Standard consumer	Meter rental LFR/month	Standing charge LFR/month	Commodity rate LFR/kWh
D _a D _b	32	120 X E _B	2.83 X E _B
D _c	100	-	8.48 X E _B Peak * 2.83 X E _B Day 1.41 X E _B Night
D _d D _e	75	200 X E _B	2.87 X E _B Day 1.41 X E _B Night

* Peak = 6h per day between 16.00 and 22.00 from 1 January to 31 March and 1 October to 31 December.

The value of the index E_B was 1.390 in January 1987. A non indexed rebate of 0.108 LFR/kWh applies since January 1986.

b) Household prices - analysis

The prices are given in table 20 in annex.

Between January 1986 and January 1987 prices for all household consumers rose by 1%. The rebate of 0.108 LFR/kWh was a factor in keeping the increase below the rate of inflation (4%) during last year.

Tariff degression remains stable, the largest standard consumer (electrical heating D_e) paying one third of the unit price paid by the smallest (D_a). This degression is very marked, resulting mainly from the low night prices offered.

Prices in 1987 are more expensive in real terms than in 1980 due to increases of 66-94% compared to inflation as measured by the implicit gross domestic product index of 54%.

c) Industrial prices - tariffs

No changes have been made to the medium and high voltage tariffs since the publication of "Electricity prices 1978-1984". The values of the indices were as follows in January 1987 :

$$E_M \quad 1.430 \qquad E_H \quad 1.465$$

A non indexed rebate of 0.108 LFR/kWh applies since January 1986.

d) Industrial prices - analysis

The results for the three levels of power reduction are shown in tables 21 and 22 in annex.

Between January 1986 and January 1987 prices rose by 2-3% which continues the trend since 1984 of increases below the rate of inflation.

Tariff degressivity has increased during the period studied in 1980 a large consumer (I_g) paid 46% less per kWh than a small consumer I_a which has increased to 61% in 1987.

Over the period 1980-1987 current VAT exclusive prices rose by 41-145% depending on the level of consumption and the power reduction. Inflation registered a 54% increase in the same period, thus for all consumers with the exception of I_g electricity is more expensive in constant terms.

7. UNITED KINGDOM

a) Household prices - tariffs

The table below summarises the tariffs for three of the area boards surveyed introduced in October 1986 and valid in January 1987 :

Area	Standard domestic tariff			Economy seven tariff		
	Quarterly standing charge £	Unit rate p/kWh		Quarterly standing charge £	Day rate	Night rate (1)
London	8.00	5.45		10.00	5.75	1.90
Midlands	6.40	5.52		9.20	5.70	1.90
Yorkshire	7.00	5.47		9.00	5.77	1.90

(1) 7 hours per night generally between 24.00 and 08.00, to be specified by each board

b) Household prices - analysis

The prices for the four area boards surveyed are given in tables 23 and 24 in annex.

Whilst prices in London fell by 1-5% between January 1986 and January 1987 the rises experienced in other areas were below the rate of inflation (+6%) as the summary below shows :

	% 1987/1986					% 1987/1980				
	D _a	D _b	D _c	D _d	D _e	D _a	D _b	D _c	D _d	D _e
London	-1	-2	-3	-4	-5	+67	+63	+57	+55	+54
Glasgow	+4	+1	+2	+1	-1	+85	+77	+76	+73	+68
Birmingham	+2	+1	0	0	-3	+71	+71	+69	.	+62
Leeds	+3	+3	+1	+1	-2	+81	+76	+68	.	+56

However the total rises since 1980 have exceeded inflation for the period, as measured by the implicit GDP price index which rose by 51%. This overall trend may be traced to 1980 as since then price rises have been in line with or below inflation.

Tariff degressivity has changed little throughout the period studied and varies from 66-70% in 1987 between extreme standard consumers and is due to the very favourable night rate of the "Economy 7 tariff".

c) Industrial prices - tariffs

Small industrial consumers I_a and I_b (except I_b Leeds) supplied in low voltage are charged according to the following simple tariff :

	London	Birmingham	Leeds
Quarterly fixed charge £	8.50	6.40	7.40
First 1000 kWh/quarter p/kWh	6.68	7.32	7.49
Balance p/kWh	5.72	5.52	5.61

The maximum demand tariffs shown below apply to larger industrial consumers I_c (also I_b Leeds) low voltage, I_d-I_g high voltage :

	London		Birmingham		Leeds	
	voltage low	high	voltage low	high	voltage low	high
Standing charge £/month	15.00	51.00	12.00	50.00	NIL	NIL
Availability charge £/kVA/month	0.90 ⁽¹⁾	0.75 ⁽¹⁾	0.78	0.52	50 : 0.90 Excess:0.74	500 : 0.67 Excess:0.56
Demand charge £/kW/month						
Apr.-Oct.	0.10	NIL	NIL ⁽³⁾	NIL ⁽³⁾	NIL ⁽³⁾	NIL ⁽³⁾
Nov., Feb.	4.10	3.85	2.30 ⁽³⁾	2.20 ⁽³⁾	1.95 ⁽³⁾	1.90 ⁽³⁾
Dec., Jan.	7.00	6.70	7.09 ⁽³⁾	6.78	6.00 ⁽³⁾	5.95
Mar.	1.70	1.50	NIL	NIL	NIL	NIL
Energy : day p/kWh	3.98	3.72	4.06	3.86	4.34	4.03
night p/kWh	1.95 ⁽²⁾	1.87	1.93	1.84	1.97	1.87
Fuel price adjustment	0.00035	0.00033	0.00035	0.00033	0.00035	0.00033

(1) 40 - 100 kVA, multiples of 10 kVA
 100 - 250 kVA, " " 25 kVA
 250 - 1000 kVA, " " 50 kVA
 over 1000 kVA, " " 100 kVA

(2) supplement £ 0.50/month
 (3) £/kVA/month

The unit charge per kWh is increased, or decreased as is the case in January 1987 by the appropriate amount shown above for each I_p by which the monthly fuel cost is more or less than 5200 p. Monthly fuel cost is the cost per tonne of fuel supplied to the CEGB during the month.

As already mentioned above, standard consumer I_b -Leeds is charged according to the low voltage maximum demand tariff as the demand exceeds the limits of the simple tariff normally applied to small industrial consumers. A small night consumption (4.375%) has also been considered, contrary to our standard definitions as this reflects normal practice.

Finally, to calculate the demand charges a breakdown of typical load patterns is necessary :

	I_b	I_c	I_d	I_e	I_f	I_g
Demand factor	0.98	0.98	0.98	0.98	0.98	0.98
M.D.						
Apr		88%				
May		76%				
Jun		73%				
Jul		69%				
Aug		73%				
Sep		74%				
Oct		81%				
Nov	76%	87%	92%	96%	96%	99%
Dec	90%	90%	92%	98%	98%	100%
Jan	100%	94%	100%	100%	100%	98%
Feb	98%	100%	96%	94%	94%	97%
Mar	90%	91%	90%	90%	90%	97%

d) Industrial prices - analysis

The prices for the 4 regions surveyed are shown in tables 25 and 26 in annex and have evolved as follows :

	% 1987/1986							% 1987/1980						
	I_a	I_b	I_c	I_d	I_e	I_f	I_g	I_a	I_b	I_c	I_d	I_e	I_f	I_g
London	-6	-6	-1	-2	-2	-2	-2	.	+32	+59	+43	+42	+43	.
Glasgow	+2	+3	+2	+1	+1	+1	0	.	+64	+75	+76	+73	+62	+64
Birmingham	0	0	-2	-2	-3	-3	-4	.	+31	+56	+59	+61	+63	.
Leeds	+2	+3	+1	0	0	0	-1	.	+66	+64	+58	+57	+56	+54

Despite the fact that prices fell for many consumers or that increases were below the rate of inflation for others electricity is more expensive for the majority of consumers in 1987 than in 1980 when inflation of 51% is considered.

The reduction in price between standard consumers I_b and I_g ranges from 38-48% in 1987, little changed throughout the period studied. However the difference between the standard consumers I_d and I_e , who are both charged according to the same tariff is minimal despite the five fold difference in demand and consumption.

8. IRELAND

a) Household prices - Tariffs

There were two reductions in the normal commodity rate in the past year. A 5.5% reduction in September 1986 was followed by a 3.2% reduction in January 1987. The corresponding reductions in the night heating commodity rate were 13% in April 1986 and 9% in January 1987. There were no changes in the standing charge.

The prices for Dublin are calculated according to the urban domestic tariff, the rates of which for January 1987 are shown below :

Standard consumers	Standing charge per two-monthly period	Commodity rate p/kWh	
		Normal	Night heating
D _a , D _b	£3.50	7.50	-
D _c , D _d , D _e		7.50	3.05

Further details concerning the tariff system may be found in Electricity prices 1980-1986.

b) Household prices - analysis

The prices are given in table 18 in annex.

The two price reductions in the past year resulted in reductions of between 6% and 15% for our standard consumers. The greatest reductions applied to the larger consumers as the night rate was reduced by a higher percentage than the standard rate.

Whereas prices increased by 73-110% between 1980 and 1987 the increases between 1981 and 1987 were more modest (15-54%) whilst inflation as measured by the gross domestic product price index was 85% in the period 1980-1987.

Recent tariff changes have further increased tariff degressivity. In 1987, D_e pays 61% less per kWh than D_a as against 57% less in 1986 and 53% less in 1980. The night heating rate is now only 40% of the normal rate.

c) Industrial prices - tariffs

Standard consumers I_a and I_b are charged according to the general purpose tariff which is more economic than the low voltage maximum demand tariff.

Standing charge : IR£ 8.00 per 2 months

Commodity rate : 10.50p/kWh for the first 8 000 kWh
per 2 months
8.50p/kWh for the balance.

The larger industrial consumers are charged according to the following maximum demand tariffs, full details of which may be found in "Electricity prices 1980-1985".

Example of tariffs available in Dublin - January 1987

Tariffs	Low voltage 9		High voltage							
	220V and 380V		10kV		38kV		110kV			
Standard consumers	I_c	I_d, I_e		I_f, I_g						
A Demand Charges (two monthly) £ X kW	1 9.85 2 7.35	6 6.10 7 8.40	4 4.60 6 6.30	5 3.10 4 4.20	3 5.50 8.10	4 4.14 6 6.10	5 2.75 4 4.05	3 5.40 8.00	4 4.05 6.00	5 2.70 4.00
B Service Capacity Charges (two-monthly) £ X kW	-		1.70	1.30 8.40	0.90	1.65 8.10	1.25 6.10	0.85 4.05	1.60 8.00	1.20 4.00
C Commodity Rate (p/kWh)										
Day 1st Block 8	6.15			5.85		5.65 5.90	6 7		5.60 5.85	6 7
Excess	4.20			3.65		3.45 3.70	6 7		3.40 3.65	6 7
Night	2.60			2.40		2.35			2.30	

- 1 - First 500 kW
- 2 - Over 500 kW
- 3 - First 500 kW
- 4 - Next 2,000 kW
- 5 - Over 2,500 kW

- 6 - Summer 8 months (March to October)
- 7 - Winter 4 months (November to February)
- 8 - 350 kWh x kW (A) per two-monthly period
- 9 - Low voltage supplied up to a demand of 500 kW

d) Industrial prices - analysis

Prices are given in table 19 in annex.

There have been three successive reductions in industrial electricity prices -January 1985, April 1986 and January 1987, as a result of which prices are now approximately 20% lower than those of two years ago.

Recent tariff changes have further increased tariff degressivity. In 1987 customer I_g pays 60% less than customer I_a against 4% in 1980.

As was seen in the domestic sector the majority of the increase (64-100%) observed between 1980 and 1987 occurred during 1980.

9. DENMARK

a) Household prices - tariffs

(i) Københavns Belysvingsvæsen

The tariff structure, described in detail in "Electricity prices 1978-1984" remains in force with the following tax exclusive rates in 1987.

Tariff	Standing charge DKR/year	Commodity rate Øre/kWh	Fuel surcharge Øre/kWh	Standard consumers
Normal	98	27.7	12.0 x 1.1	D _a ...D _e
Night	180	8.0	12.0 x 0.9	D _c ...D _e

The night tariff is applied in conjunction with the normal tariff.

(ii) NESA

Two tariffs are offered to domestic consumers, the rates being as follows for January 1987 (excl. taxes) :

Tariff	Standing charge DKR/year	Commodity rate Øre/kWh	Standard consumers
Normal	480	28.5	D _a ...D _d
Peak/off peak	750	Peak 45.3 Off peak 11.7	D _e

Application of the peak/off-peak tariff presupposes the installation of a three-phase meter. The peak hours run from 6 to 20 h on working days (7 to 21 h during the summer). This tariff is only interesting when the consumer uses more than half his electricity during off-peak hours and was thus only applied to standard consumer D_e.

b) Household prices - analysis

The prices for the two companies surveyed are shown in table 27 in annex.

Whilst tax exclusive prices fell between January 1986 and January 1987 the increase in the specific tax was such that selling prices rose by 4-10%.

Between 1980 and 1987 current prices including all taxes rose by 66-79% in Copenhagen and 48-86% in North Sjaelland which for all but the standard consumer I_e in North Sjaelland is greater than inflation (+61%).

Regional price differences are small in 1987 except for the small users who benefit from an advantageous tariff in the city of Copenhagen.

The tax element continues to rise, now accounting for 37-63% of the amount paid by domestic users according to the level of consumption.

c) Industrial prices - tariffs

(i) Københavns Belysningsvæsen

The normal tariff (see a) above) is applied to non domestic consumers up to 100 000 kWh/year (I_a , I_b). For the larger consumers more complex tariffs, described in "Electricity prices 1978-1984" are applied. The tax exclusive rates for January 1987 may be summarised as follows :

	Standing charge DKR/year	Demand charge DKR/KVA/year	Commodity rate Øre/kWh	Fuel surcharge Øre/kWh	Standard consumers Øre/kWh	
Low voltage	240	240 ⁽¹⁾ (min. 4800DKR/year)	1st block ⁽³⁾ excess	17.0 15.9	12.0x1.1	$I_c \dots I_e$
High voltage	492	208 ⁽²⁾	13.7		12.0x1.05	$I_f \dots I_g$

(1) Based on the quarter hourly maximum demand measured during the year.

(2) Based on average of the two highest monthly demands measured quarter hourly during the year.

(3) 1 000 000 kWh/year.

(ii) NESA

Non-domestic users whose demand corresponds to a circuit breaker of less than 200 amperes (I_a , I_b , I_c) are charged according to the normal domestic tariff (see c) above) whilst the larger consumers ($I_d \dots I_g$) are charged under the B tariff which has two voltage variants, the rates, excluding taxes on 1 January 1987 being as follows :

Voltage	Standing charge DKR/quarter	Demand charge DKR/kW/quarter	Commodity rate Øre/kWh	Standard consumers
0.4 kV	1 200	115	10.3	$I_d \dots I_e$
10 kV	2 000	110	10.2	$I_f \dots I_g$

d) Industrial prices - analysis

The results are given in table 28 in annex.

For non-domestic uses the analysis is based on the tax-exclusive prices since the specific tax is deductible, as is VAT. Under these conditions, it is not surprising to find that price levels are much more moderate than for the domestic sector where the tax burden represents a large part of the selling price.

Between 1986 and 1987 prices fell by between 20% and 35%. In the case of the large industrial consumers in North Sjaelland prices in 1987 are 7-9% lower than in 1980. For the other consumers prices in 1987 are only 8-17% higher than in 1980 whilst inflation was 61%. This has served to widen the gap between the two regions surveyed, prices in North Sjaelland being currently 27-43% lower than in Copenhagen.

10. GREECE

a) Household prices - tariffs

The tariff system for domestic and professional uses in the home is the same for the whole country. The basic tariff is two part with progressive price blocks. A night tariff is offered in conjunction with the basic tariff for consumption between 23 h and 7 h and involves a supplementary standing charge.

b) Household prices - analysis

The prices are shown in table 29 in annex.

Between January 1986 and January 1987 prices rose by a consistent 15% which is considerably below the rate of inflation (40 %) in the same period.

A peculiarity of the tariff system is the progressive kWh rates which explains why some larger consumers pay more than smaller consumers. On the other hand advantageous night kWh rates compensate for the progressive day kWh rates when night consumption is significant, standard consumers D_c and D_e for example.

Between 1980 and 1987 electricity prices rose by 164-174 %. In the same period the implicit gross domestic product price index rose by 240 % which makes electricity cheaper in real terms.

The difference in unit price between the smallest and largest domestic consumers has remained at the same narrow level (35-36 %) throughout the period studied.

c) Industrial prices - tariffs

Industrial tariffs are valid for the country as a whole. The tariffs for small industrial consumers (I_a , I_b) supplied in low voltage comprise a standing charge, a demand charge and a commodity rate. Standard consumers $I_c \dots I_g$ supplied in middle voltage are charged according to two part tariffs with degressive kWh price blocks.

d) Industrial prices - analysis

The results are shown in table 30 in annex.

Between 1986 and 1987 prices rose by 12-15 % which as in the domestic sector is well below the rate of inflation (40 %).

Tariff degressivity has remained stable at 34-35 % (the reduction in unit price between the standard consumers I_g and I_c).

January 1987 price levels are 190-232 % above January 1980. However the implicit gross domestic product price index rose by 240 % which means that the price of electricity has fallen slightly in "constant" terms.

11. SPAIN

a) Household prices - tariffs

A complete description of the tariffs applied to household and other low voltage consumers may be found in "Electricity prices 1980-1986".

The following table shows the new rates introduced on 1 March 1986 and applicable in January 1987 :

Tariff	Demande charge PTA/kW/month	Commodity rate PTA/kWh		Standard consumers
		Day	Night	
1.0	81	9.56	-	
2.0	219	9.56	6.69	D _a ... D _e

b) Household prices - analysis

The prices shown for Madrid in table 29 in annex are valid for continental Spain as a whole. Despite a number of gaps in the time series, notably the year 1981, a short analysis is possible.

Between 1986 and 1987 prices rose by 5-6 % whilst inflation for the same period was 12 %.

Degressivity, the reduction in unit price as consumption increases has remained stable, the standard consumers D_d paying 30 % less per kWh than the small consumer D_a.

The part of taxes in the selling price has grown throughout the period from 3 % in 1980 to 10.68 % in 1987 though the effect on prices has been moderate compared to other factors. Whilst the implicit gross domestic product price index rose by 103 % between 1980 and 1987 prices increased by 187 - 191 % making electricity considerably more expensive in real terms.

c) Industrial prices - tariffs

The tariff system is described in detail in "Electricity prices 1980-1986" whilst the table below gives the values introduced on 1 March 1986 and valid in January 1987 :

Voltage	Tariff	Demand charge PTA/KW/month	Commodity rate PTA/kWh		
			Peak	normal	off-peak
Low	3.0	218	13.79	9.85	-
High	1.1	265	12.82	9.16	6.41
"	1.2	250	12.10	8.64	6.04
"	1.3	243	11.76	8.40	5.87
"	1.4	238	11.47	8.19	5.73

"	2.1	507	11.47	8.19	5.73
"	2.2	494	10.72	7.66	5.36
"	2.3	481	10.43	7.45	5.21
"	2.4	470	10.16	7.26	5.08

To calculate prices for the standard consumers in our study a breakdown between the various tariff periods is necessary :

Standard consumers	Tariff applicable	Annual Peak	consumption kWh normal	kWh off-peak
I _a (1)	3.0	6 750	23 250	-
I _b (1)	3.0	11 250	38 750	-
I _c (1)	1.1	36 750	110 250	13 000
I _d (2)	1.1	256 250	768 750	225 000
I _e (2)	2.1	287 900	1 212 100	500 000
I _f (2)	2.2	1 439 500	6 060 500	2 500 000
I _g (2)	2.2	3 192 000	12 648 000	8 160 000

(1) Double tariff

(2) Normal triple tariff

d) Industrial prices - analysis

The prices shown for Madrid in table 30 of the annex are valid for all mainland Spain. Despite some gaps in the time series a brief analysis is possible.

Between January 1986 and January 1987 current prices increased by 8-16%, the majority of consumers (I_c - I_g) suffering increases equal to inflation (12 %).

In 1980 the standard consumer I_a paid 49 % less per kWh than a small user (I_a), in 1987 this degressivity had fallen to 39 %.

Inflation, as measured by the implicit GDP price index reached 103 % between 1980 and 1987 whilst current electricity prices rose by 169-280 %. In real terms this energy is in some cases more than twice as expensive as in 1980. For this reason it is not surprising to see a stagnation of electricity consumption by industry since 1980.

12. PORTUGAL

a) Household prices - tariffs

The tariffs in force at 1st January 1987 (taxes excluded) are as follows :

	Monthly demand charge (esc)							Energy rate (esc/kWh)	
	Permanent subscribed demand (kVA)							Peak	Off peak
	1.1	3.3	6.6	9.9	13.2	16.5	19.8		
Basic	174	519	1037	1556	2074	2593	3110	9.97	-
Day / Night	-	728	1245	1764	2282	-	-	9.97	8.76
Day/Night+Interruptible	-	936	1453	1972	2490	-	-	9.97	8.76

To cover the deficit caused by an abnormal succession of dry years an extra charge of 8% is levied on the total price before taxes.

Further details concerning the tariffs and their application to our standard consumers may be found in "Electricity prices 1980-1986".

b) Household prices - analysis

The prices are given in table 31 in annex.

Whilst the increase (9%) between January 1986 and January 1987 was considerably below the rate of inflation (31%) prices are now considerably more expensive in real terms than in 1980 with rises of 439-500% compared to inflation of 245%. As the largest increases were suffered by the bigger consumers tariff degressivity has decreased. In 1987 D_e pays 25% less than D_a as against 32% in 1980.

c) Industrial prices - tariffs

The tariffs in force on 1 January 1987 (excl. taxes) may be summarised as follows :

(PS > 19.8 kVA)			
Voltage (kv)	Low ≤ 1	Middle > 1 < 60	High ≥ 60
- Monthly demand charge ESC/kW	169.62	618.20	519.41
- Weighting coefficient d	0.5	0.2	0.2
- Commodity rate ESC/kWh			
- Winter (November-April)			
High peak	26.72	9.52	8.52
Peak	10.76	9.52	8.52
Off peak	9.45	7.78	6.47
- Summer (May-October)			
High peak	26.72	9.52	8.83
Peak	10.76	9.52	8.83
Off peak	9.45	7.78	7.46
- Monthly supplement for a change in tariff voltage			
ESC/kW			
(low	-	-	-
Supplied voltage (
(middle	-	-	447.34
Standard consumers	I _a	I _b ...I _f	I _g

To cover the deficit caused by an abnormal succession of dry years an extra charge of 8% is levied on the total price before taxes.

Further details concerning the tariffs and their application to our standard consumers may be found in "Electricity prices 1980-1986".

d) Industrial prices - analysis

Prices are shown in table 32 in annex. The trend in the industrial sector is similar to that observed in the domestic sector, a uniform rise of 9% between 1986 and 1987 and a 479-520% rise since 1980. However tariff degressivity between extreme consumers (I_a/I_g) remained unchanged (43-44%) between 1980 and 1987.

VI. COMMUNITY COMPARISON AND CONCLUSIONS

The locations chosen for the international comparison are :

Düsseldorf	Paris*	Milan (=North and Centre)
Rotterdam (GEB)	Brussels*	Luxembourg (Cegedel)
London	Dublin	Copenhagen (KB)
Athens*	Madrid	Lisbon

* standard national tariff.

The findings are presented in Tables 34-37 in the annex according to two units of value : current ECU and deflated PPS (see Chapter III). Table 33 gives the rates of conversion between ECU, PPS and national currencies. It also shows the deflator used (GDP price index). The prices taken for analysis were inclusive of all taxes for domestic consumers and excluding VAT for industrial consumers.

The difficulties involved in comparing price levels internationally mean that interpretations and conclusions drawn from these tables should be treated with caution.

The selection of a representative price in a country where wide regional differences exist is difficult e.g. F.R. Germany. Also electricity tariffs and therefore prices do not change on the same date which gives rise to certain transitory differences. It is therefore necessary to make international comparisons in the correct perspective, based on a time series rather than on a point in time. In addition conversion to a common unit is dubious because of exchange rates.

a) Prices continue to fall in constant terms

Electricity prices fell considerably in some cases during 1986, continuing the trend seen at the beginning of that year. In other cases where increases occurred these were below the rate of inflation for the past year. However these reductions, with few exceptions do not counterbalance the earlier rises. The table below, based on prices in deflated PPS (base 1980) shows the true price trend between 1980 and 1987 and demonstrates the divergent trends between Member States ranging from protection of small domestic consumers (e.g. Milan, Brussels) through favourable night domestic tariffs (e.g. Rotterdam, London, Dublin) to the low rates offered to large industry (e.g. Paris, Milan, Rotterdam, Luxembourg).

	Düsseldorf	Paris	Milan	Rotterdam	Brussels	Luxembourg	London	Dublin	Copenhagen	Athens	Madrid	Lisbon
Households												
D _a	+17	-20	-7	-4	-4	+14	+11	+14	+3	-19	+41	+56
D _b	+19	-6	+8	-7	+5	+8	+8	+16	+5	-22	+41	+57
D _c	+25	0	+5	-7	+3	+2	+4	+8	+11	-22	.	+59
D _d	.	+2	+6	-9	+2	+26	+3	+3	+10	-22	+43	+62
D _e	+25	+3	.	-11	-6	+16	+2	-6	+9	-21	.	+74
Industry												
I _a	.	+32	+25	-16	+2	+26	.	+9	+6	-15	+32	+75
I _b	.	+13	+2	-18	+1	+28	-12	+7	+6	-10	+76	+68
I _c	+11	+7	0	-26	+2	+22	+6	+8	+6	-2	+87	+70
I _d	+12	+1	0	-18	-3	+20	-5	+6	+6	-5	+82	+72
I _e	+14	+1	-1	-18	-6	+18	-6	0	+5	-2	+72	+74
I _f	+14	-2	-7	-21	-2	+17	-6	-6	+15	+3	+61	+74
I _g	.	-5	-23	-27	+3	-8	.	-11	+11	-12	+56	+80

b) Median prices show the general trend in the Community

Faced with the divergences and differences between the countries of the Community it is difficult to give an overall picture. Moreover it is not easy to choose an average representative value. The solution least affected by stray values remains the calculation of a median price. For lack of something better we have calculated Community median prices to show the general trend.

Community median price in deflated PPS/100kWh

	1980	1981	1982	1983	1984	1985	1986	1987	%1987/1980
Households									
D _a	12.06	12.23	12.97	13.06	12.82	12.61	12.42	11.36	-6
D _b	9.73	10.27	10.72	10.60	11.32	11.09	10.62	10.07	+3
D _c	7.79	7.95	8.16	8.14	8.48	8.38	8.47	8.20	+5
D _d	7.32	7.63	8.48	8.65	8.45	8.19	7.94	7.40	+1
D _e	4.96	5.90	6.00	7.09	6.31	6.31	5.65	5.19	+5
Industry									
I _a	8.35	9.12	9.28	9.76	9.97	9.92	9.27	9.39	+12
I _b	8.67	9.55	9.42	9.70	9.97	9.40	9.15	9.39	+8
I _c	7.35	8.18	8.22	8.70	8.45	8.15	8.12	7.90	+7
I _d	6.02	6.80	6.81	7.01	7.00	6.98	6.78	6.21	+3
I _e	5.24	6.04	6.19	6.33	6.34	6.29	6.12	5.22	0
I _f	5.03	5.70	5.91	6.05	5.95	5.94	5.67	5.05	0
I _g	4.50	5.42	5.84	5.57	5.66	5.52	5.26	4.60	+2

The results for the small industrial and commercial users are affected by the lack of certain prices. Finally the above tables permit the comparison of the prices in deflated PPS for each country (tables 34 and 36 in annex) with a central community value.

VII. STATISTICAL ANNEX

VII. ANNEXE STATISTIQUE

NOTE: In the Statistical Annex, the Continental practice
of using a comma for the decimal point is adopted.

TABLES **TABLEAUX**

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

B R DEUTSCHLAND

Pf/kWh

January/Janvier	Hamburg			Hannover			
	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	
	Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes	
d_a	1980	31,67	28,03	26,67	33,71	29,83	28,60
600 kWh	1981	38,30	33,89	32,25	37,84	33,49	32,14
	1982	40,70	36,02	34,40	44,35	39,25	37,74
	1983	40,35	35,71	34,40	44,05	38,98	37,74
	1984	43,86	38,47	37,03	46,51	40,80	39,46
	1985	46,85	41,10	39,55	46,51	40,80	39,46
	1986	46,71	40,97	39,55	46,42	40,72	39,46
d_b	1987	47,30	41,49	39,55	47,01	41,24	39,46
d_b	1980	26,03	23,04	21,91	25,46	22,53	21,60
1 200 kWh	1981	31,32	27,72	26,38	29,07	25,73	24,69
	1982	33,11	29,30	27,98	33,31	29,48	28,34
	1983	32,82	29,04	27,98	33,08	29,27	28,34
	1984	35,47	31,11	29,95	34,80	30,53	29,52
	1985	37,86	33,21	31,97	34,80	30,53	29,52
	1986	37,76	33,12	31,97	34,73	30,46	29,52
d_c	1987	38,23	33,54	31,97	35,17	30,85	29,52
d_c	1980	20,18	17,86	17,00	17,49	15,48	14,84
(1 300 kWh night/nuit)	1981	24,40	21,59	20,54	20,42	18,07	17,54
	1982	25,68	22,73	21,71	22,98	20,34	19,55
	1983	25,46	22,53	21,71	22,82	20,19	19,55
	1984	27,24	23,89	23,00	23,95	21,01	20,32
	1985	29,01	25,45	24,49	23,95	21,01	20,32
	1986	28,92	25,37	24,49	23,91	20,97	20,32
d_c	1987	29,29	25,69	24,49	24,21	21,24	20,32
d_d	1980	16,66	14,74	14,03	-	-	-
(2 500 kWh night/nuit)	1981	21,52	19,04	18,12	-	-	-
	1982	22,20	19,65	18,76	-	-	-
	1983	22,00	19,47	18,76	-	-	-
	1984	22,82	20,02	19,27	-	-	-
	1985	24,23	21,25	20,46	-	-	-
	1986	24,16	21,19	20,46	20,84	18,28	17,72
d_e	1987	24,47	21,46	20,46	21,11	18,52	17,72
d_e	1980	9,79	8,66	8,25	9,15	8,10	7,76
(15000 kWh night/nuit)	1981	11,76	10,41	9,90	12,27	10,86	10,42
	1982	13,40	11,86	11,33	13,58	12,02	11,56
	1983	13,81	12,22	11,78	13,49	11,94	11,56
	1984	14,31	12,55	12,09	14,22	11,47	12,07
	1985	14,74	12,93	12,45	14,22	11,47	12,07
	1986	14,70	12,89	12,45	14,20	12,46	12,07
d_e	1987	14,89	13,06	12,45	14,38	12,61	12,07

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

B R DEUTSCHLAND

Pf/kWh

January/Janvier	Düsseldorf			Westliche Gebiete			
	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	
	Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes	
d_a	1980	34,98	30,96	29,40	31,41	27,80	26,40
600 kWh	1981	38,55	34,12	32,40	32,96	29,17	27,70
	1982	40,26	35,63	34,00	39,79	35,21	33,60
	1983	42,54	37,65	36,20	39,49	34,95	33,60
	1984	45,29	39,73	38,20	41,73	36,61	35,20
	1985	45,29	39,73	38,20	42,68	37,44	36,00
	1986	48,94	42,93	41,40	45,16	39,61	38,20
	1987	50,35	44,17	42,06	47,16	41,37	39,40
d_b	1980	25,94	22,96	21,80	24,15	21,37	20,30
1 200 kWh	1981	29,51	26,12	24,80	25,70	22,74	21,60
	1982	31,03	27,46	26,20	30,38	26,89	25,65
	1983	32,49	28,75	27,65	30,14	26,67	25,65
	1984	34,38	30,16	29,00	31,89	27,97	26,90
	1985	34,48	30,16	29,00	32,84	28,81	27,70
	1986	36,77	32,25	31,10	34,70	30,44	29,35
	1987	37,84	33,19	31,61	36,09	31,66	30,15
d_c	1980	18,32	16,21	15,40	18,04	15,96	15,16
3 500 kWh (1 300 kWh night/nuit)	1981	21,88	19,36	18,39	19,58	17,33	16,46
	1982	23,15	20,49	19,55	23,03	20,38	19,44
	1983	24,42	21,61	20,78	22,85	20,22	19,44
	1984	25,76	22,60	21,73	24,43	21,43	20,61
	1985	25,76	22,60	21,73	25,38	22,26	21,41
	1986	27,44	24,07	23,21	26,96	23,65	22,80
	1987	28,25	24,78	23,60	28,02	24,58	23,41
d_d	1980	-	-	-	14,77	13,07	12,41
7 500 kWh (2 500 kWh night/nuit)	1981	-	-	-	16,42	14,53	13,80
	1982	-	-	-	19,22	17,01	16,23
	1983	-	-	-	19,07	16,88	16,23
	1984	-	-	-	20,49	17,97	17,29
	1985	-	-	-	21,36	18,74	18,02
	1986	23,13	20,29	19,56	22,74	19,95	19,24
	1987	23,87	20,94	19,94	23,58	20,68	19,70
d_e	1980	10,11	8,95	8,50	9,32	8,25	7,83
20 000 kWh (15000 kWh night/nuit)	1981	11,97	10,59	10,06	10,85	9,60	9,12
	1982	13,11	11,60	11,07	12,87	11,39	10,87
	1983	13,32	11,79	11,33	12,77	11,30	10,87
	1984	14,06	12,33	11,86	13,97	12,25	11,78
	1985	14,06	12,33	11,86	14,44	12,67	12,18
	1986	15,14	13,28	12,81	15,05	13,20	12,73
	1987	15,50	13,60	12,95	15,55	13,64	12,99

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

B R DEUTSCHLAND

Pf/kWh

January/Janvier		Frankfurt/Main			Stuttgart		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
d_a	1980	34,35	30,40	29,20	36,78	32,55	31,30
	1981	35,61	31,51	30,30	41,01	36,29	34,90
	1982	43,52	38,51	37,10	43,59	38,58	37,20
	1983	45,13	39,94	38,70	44,97	39,80	38,60
	1984	45,53	39,94	38,70	47,88	42,00	40,70
	1985	47,22	41,42	40,10	50,07	43,92	42,60
	1986	47,13	41,34	40,10	49,97	43,83	42,60
d_b	1987	47,68	41,82	40,10	52,12	45,72	44,00
	1980	26,11	23,11	22,20	27,50	24,34	23,40
	1981	27,38	24,23	23,30	30,91	27,35	26,30
	1982	33,20	29,38	28,30	33,04	29,24	28,20
	1983	34,29	30,35	29,40	34,25	30,31	29,40
	1984	34,59	30,34	29,40	36,29	31,83	30,85
	1985	35,80	31,40	30,40	37,96	33,30	32,30
d_c	1986	35,73	31,34	30,40	37,89	33,24	32,30
	1987	36,15	31,71	30,40	39,56	34,70	33,40
	1980	18,90	16,73	16,07	18,93	16,75	16,11
	1981	20,13	17,81	17,13	21,29	18,84	18,11
	1982	23,96	21,20	20,42	22,74	20,13	19,41
	(1 300 kWh night/nuit)	24,71	21,87	21,19	23,83	21,09	20,45
	1983	24,93	21,87	21,19	25,11	22,03	21,34
d_d	1984	25,59	22,45	21,73	26,39	23,15	22,45
	1985	25,54	22,40	21,73	26,34	23,11	22,45
	1986	25,84	22,67	21,73	27,33	23,97	23,07
	1987	21,12	18,53	17,76	22,53	19,76	19,02
	1980	8,88	7,86	7,55	8,83	7,81	7,51
	1981	9,72	8,60	8,27	10,54	9,33	8,97
	1982	11,38	10,07	9,70	11,44	10,12	9,76
d_e	1983	11,70	10,35	10,03	12,52	11,08	10,75
	1984	11,97	10,50	10,18	12,88	11,30	10,95
	1985	12,14	10,65	10,31	13,18	11,56	11,22
	1986	12,12	10,63	10,31	13,16	11,54	11,22
	1987	12,26	10,75	10,31	13,19	11,57	11,14

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

BR DEUTSCHLAND

Pf/kWh

January/Janvier		München			Südliche Gebiete		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D_a	1980	34,43	30,47	29,30	35,14	31,10	29,90
	1981	37,61	33,28	32,00	35,14	31,10	29,90
	1982	45,20	40,00	38,50	44,97	39,79	38,30
	1983	44,90	39,73	38,50	44,66	39,52	38,30
	1984	46,24	40,56	39,30	46,24	40,56	39,30
	1985	46,28	40,60	39,30	46,28	40,60	39,30
	1986	46,19	40,52	39,30	46,19	40,52	39,30
D_b	1980	26,62	23,56	22,65	27,03	23,92	23,00
	1981	28,85	25,53	24,55	27,03	23,92	23,00
	1982	34,81	30,81	29,65	34,69	30,70	29,55
	1983	34,58	30,60	29,65	34,46	30,50	29,55
	1984	35,65	31,27	30,30	35,65	31,27	30,30
	1985	35,68	31,30	30,30	35,68	31,30	30,30
	1986	35,61	31,24	30,30	35,61	31,24	30,30
D_c	1980	20,14	17,82	17,14	20,53	18,18	17,47
	1981	21,83	19,32	18,57	20,53	18,17	17,47
	1982	26,28	23,26	22,39	25,92	22,94	22,08
	(1 300 kWh night/nuit)	26,11	23,11	22,39	25,75	22,79	22,08
	1983	27,03	23,71	22,97	26,72	23,44	22,71
	1984	27,05	23,73	22,97	26,74	23,46	22,71
	1985	27,00	23,68	22,97	26,69	23,41	22,71
D_d	1980	27,31	23,96	22,97	27,00	23,68	22,71
	1981	-	-	-	16,69	14,77	14,16
	7 500 kWh	-	-	-	16,64	14,73	14,16
	(2 500 kWh night/nuit)	1982	-	-	22,00	19,47	18,74
	1983	-	-	-	21,85	19,34	18,74
	1984	-	-	-	22,65	19,87	19,25
	1985	-	-	-	22,67	19,89	19,25
D_e	1986	22,87	20,06	19,46	22,63	19,85	19,25
	1980	23,14	20,30	19,46	22,89	20,08	19,25
	1981	11,05	9,78	9,41	11,43	10,12	9,72
	1982	14,56	12,88	12,40	15,09	13,35	12,85
	1983	14,46	12,80	12,40	14,99	13,27	12,85
	1984	14,59	12,80	12,40	15,29	13,41	13,00
	1985	14,60	12,81	12,40	15,31	13,43	13,80
	1986	14,57	12,78	12,40	15,28	13,40	13,00
	1987	15,23	13,36	12,81	15,46	13,56	13,00

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ÉLECTRICITÉ POUR USAGES INDUSTRIELS

B R DEUTSCHLAND

Pf/kWh

		Hamburg			Hannover		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980						
30 000 kWh (30 kW, 1000 h)	1981						
	1982						
	1983						
	1984						
	1985						
	1986						
	1987						
I _b	1980						
50 000 kWh (50 kW, 1000 h)	1981						
	1982						
	1983						
	1984						
	1985						
	1986						
	1987						
I _c	1980	28,71	25,41	24,18	23,81	21,07	20,20
160 000 kWh (100 kW, 1600 h)	1981	34,53	30,56	29,08	26,75	23,67	22,72
	1982	35,93	31,80	30,37	30,37	26,88	25,85
	1983	39,26	34,74	33,47	30,17	26,70	25,85
	1984	37,64	33,02	31,78	31,71	27,82	26,90
	1985	37,75	33,11	31,87	31,71	27,82	26,90
	1986	38,65	33,90	32,73	31,65	27,76	26,90
	1987	39,36	34,53	32,92	32,05	28,11	26,90
I _d	1980	20,67	18,29	17,40	18,57	16,43	15,75
1 250 000 kWh (500 kW, 2500 h)	1981	24,86	22,00	20,93	20,87	18,47	17,73
	1982	25,88	22,90	21,87	23,71	20,98	20,17
	1983	28,26	25,01	24,09	23,55	20,84	20,17
	1984	27,09	23,76	22,87	24,85	21,80	21,08
	1985	26,56	23,30	22,42	24,85	21,80	21,08
	1986	27,23	23,89	23,06	24,80	21,75	21,08
	1987	27,57	24,18	23,05	25,11	22,03	21,08
I _e	1980	16,31	14,43	13,73	14,86	13,15	12,61
2 000 000 kWh (500 kW, 4000 h)	1981	19,61	17,35	16,51	16,71	14,79	14,19
	1982	20,41	18,06	17,25	19,15	16,95	16,30
	1983	22,29	19,73	19,01	19,03	16,84	16,30
	1984	21,38	18,75	18,05	20,04	17,58	17,00
	1985	21,32	18,70	18,00	20,04	17,58	17,00
	1986	21,89	19,20	18,54	20,00	17,54	17,00
	1987	22,02	19,32	18,42	20,26	17,77	17,00
I _f	1980	15,11	13,37	12,72	14,74	13,04	12,50
10 000 000 kWh (2500 kW, 4000 h)	1981	18,17	16,08	15,30	16,57	14,66	14,07
	1982	18,90	16,73	15,98	19,00	16,81	16,16
	1983	20,66	18,28	17,61	18,86	16,69	16,16
	1984	19,80	17,37	16,72	19,87	17,43	16,86
	1985	21,32	18,70	18,00	19,87	17,43	16,86
	1986	21,89	19,20	18,54	19,84	17,40	16,86
	1987	22,02	19,32	18,42	20,09	17,62	16,86
I _g	1980	-	-	-	-	-	-
24 000 000 kWh (4000 kW, 6000 h)	1981	-	-	-	-	-	-
	1982	-	-	-	-	-	-
	1983	-	-	-	-	-	-
	1984	-	-	-	-	-	-
	1985	-	-	-	-	-	-
	1986	18,48	16,21	15,64	16,67	14,62	14,17
	1987	18,51	16,24	15,48	16,88	14,81	14,17

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ÉLECTRICITÉ POUR USAGES INDUSTRIELS

B.R. DEUTSCHLAND

Pf/kWh

	1980	Düsseldorf			Westliche Gebiete		
		Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes	Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes
I _a	1980				24,18	21,40	20,32
30 000 kWh (30 kW, 1000 h)	1981				26,87	23,78	22,58
	1982				30,34	26,85	25,62
	1983				30,10	26,64	25,62
	1984				32,15	28,20	27,11
	1985				32,58	28,58	27,48
	1986				34,47	30,24	29,16
	1987				35,61	31,24	29,75
I _b	1980				23,39	20,70	19,66
50 000 kWh (50 kW, 1000 h)	1981				25,99	23,00	21,84
	1982				29,35	25,97	24,78
	1983				29,12	25,77	24,78
	1984				31,10	27,28	26,23
	1985				31,51	27,64	26,58
	1986				33,37	29,27	28,23
	1987				34,50	30,26	28,82
I _c	1980	22,49	19,90	18,90	20,93	18,52	17,59
160 000 kWh (100 kW, 1600 h)	1981	25,05	22,17	21,05	23,26	20,58	19,54
	1982	26,36	23,33	22,26	26,25	23,23	22,17
	1983	26,16	23,15	22,26	26,06	23,06	22,17
	1984	27,93	24,50	23,56	27,83	24,41	23,47
	1985	27,93	24,50	23,56	28,20	24,74	23,79
	1986	30,51	26,76	25,82	29,97	26,29	25,35
	1987	30,91	27,11	25,82	31,05	27,24	25,94
I _d	1980	17,76	15,72	14,93	16,60	14,69	13,95
1 250 000 kWh (500 kW, 2500 h)	1981	19,70	17,51	16,63	18,44	16,32	15,50
	1982	20,83	18,43	17,59	20,83	18,43	17,59
	1983	20,67	18,29	17,59	20,67	18,29	17,59
	1984	22,07	19,36	18,62	22,07	19,36	18,62
	1985	22,07	19,36	18,62	22,37	19,62	18,87
	1986	24,42	21,42	20,66	23,96	21,02	20,27
	1987	24,73	21,69	20,66	24,97	21,90	20,86
I _e	1980	15,56	13,77	13,08	14,36	12,71	12,07
2 000 000 kWh (500 kW, 4000 h)	1981	17,55	15,53	14,75	16,14	14,28	13,56
	1982	18,57	16,43	15,68	18,45	16,33	15,58
	1983	18,43	16,31	15,68	18,31	16,20	15,58
	1984	19,53	17,13	16,47	19,60	17,19	16,53
	1985	19,53	17,13	16,47	19,85	17,41	16,74
	1986	21,72	19,05	18,37	21,33	18,71	18,04
	1987	21,99	19,29	18,37	22,30	19,56	18,63
I _f	1980	14,36	12,71	12,07	13,21	11,69	11,10
10 000 000 kWh (2500 kW, 4000 h)	1981	16,22	14,35	13,63	14,79	13,09	12,43
	1982	17,13	15,16	14,47	16,86	14,92	14,24
	1983	17,01	15,05	14,47	16,74	14,81	14,24
	1984	18,01	15,80	15,19	17,90	15,70	15,10
	1985	18,01	15,80	15,19	18,14	15,91	15,30
	1986	20,11	17,64	17,01	19,56	17,16	16,55
	1987	20,36	17,86	17,01	20,51	17,99	17,13
I _g	1980	•	•	•	•	•	•
24 000 000 kWh (4000 kW, 6000 h)	1981	•	•	•	•	•	•
	1982	•	•	•	•	•	•
	1983	•	•	•	•	•	•
	1984	•	•	•	•	•	•
	1985	17,11	15,01	14,47	15,24	13,37	12,89
	1986	17,32	15,19	14,47	15,97	14,01	13,34
	1987	17,32	15,19	14,47	15,97	14,01	13,34

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

B R DEUTSCHLAND

Pf/kWh

	I_a	Frankfurt/Main			Stuttgart		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
30 000 kWh (30 kW, 1000 h)	1980				30,96	27,40	26,35
	1981				35,03	31,00	29,81
	1982				37,95	33,58	32,38
	1983				39,74	35,17	34,11
	1984				41,69	36,57	35,44
	1985				43,26	37,95	36,81
	1986				43,18	37,88	36,81
50 000 kWh (50 kW, 1000 h)	1980				45,04	39,51	38,03
	1981						
	1982						
	1983						
	1984						
	1985						
	1986						
160 000 kWh (100 kW, 1600 h)	1980	22,92	20,28	19,48	23,93	21,18	20,36
	1981	23,93	21,18	20,37	27,09	23,97	23,05
	1982	27,58	24,41	23,52	29,32	25,95	25,02
	1983	28,66	25,36	24,57	30,77	27,23	26,41
	1984	28,91	25,36	24,57	32,38	28,40	27,52
	1985	29,73	26,08	25,25	33,69	29,55	28,66
	1986	29,67	26,03	25,25	33,62	29,49	28,66
1 250 000 kWh (500 kW, 2500 h)	1980	30,03	26,34	25,25	35,02	30,72	29,56
	1981	18,13	16,04	15,40	18,85	16,68	16,04
	1982	18,93	16,75	16,10	21,35	18,89	18,16
	1983	21,81	19,30	18,59	23,06	20,41	19,68
	1984	22,65	20,04	19,42	24,27	21,48	20,83
	1985	22,85	20,04	19,42	25,60	22,46	21,76
	1986	23,51	20,62	19,96	26,72	23,44	22,74
2 000 000 kWh (500 kW, 4000 h)	1980	23,46	20,58	19,96	26,68	23,40	22,74
	1981	23,73	20,82	19,96	27,68	24,28	23,36
	1982						
	1983						
	1984						
	1985						
	1986						
10 000 000 kWh (2500 kW, 4000 h)	1980	14,81	13,11	12,60	15,57	13,78	13,25
	1981	15,48	13,70	13,17	17,53	15,51	14,91
	1982	17,83	15,78	15,20	19,01	16,82	16,22
	1983	18,50	16,39	15,88	19,99	17,69	17,16
	1984	18,68	16,39	15,88	21,09	18,50	17,93
	1985	19,22	16,86	16,32	21,96	19,26	18,69
	1986	19,19	16,83	16,32	21,92	19,23	18,69
24 000 000 kWh (4000 kW, 6000 h)	1980	19,40	17,02	16,32	22,66	19,88	19,13
	1981						
	1982						
	1983						
	1984						
	1985						
	1986						
I_g	1980	-	-	-	-	-	-
	1981	-	-	-	-	-	-
	1982	-	-	-	-	-	-
	1983	-	-	-	-	-	-
	1984	-	-	-	-	-	-
	1985	-	-	-	-	-	-
	1986	15,86	13,91	13,49	17,10	15,00	14,58
I_h	1987	16,04	14,07	13,49	17,62	15,46	14,88

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ÉLECTRICITÉ POUR USAGES INDUSTRIELS

B R DEUTSCHLAND

Pf/kWh

		München			Südliche Gebiete		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	30,11	26,65	25,63			
	1981	32,24	28,53	27,43			
30 000 kWh (30 kW, 1000 h)	1982	37,61	33,28	32,03			
	1983	37,35	33,05	32,02			
	1984	38,95	34,17	33,11			
	1985	38,99	34,20	33,11			
	1986	38,92	34,14	33,11			
	1987	39,36	34,53	33,11			
I _b	1980	30,11	26,65	25,63			
	1981	32,24	28,53	27,43			
50 000 kWh (50 kW, 1000 h)	1982	37,61	33,28	32,03			
	1983	37,35	33,05	32,02			
	1984	38,95	34,17	33,11			
	1985	38,99	34,20	33,11			
	1986	38,92	34,14	33,11			
	1987	39,36	34,53	33,11			
I _c	1980	22,72	20,11	19,34	22,48	19,89	19,13
	1981	24,30	21,50	20,67	22,48	19,89	19,13
160 000 kWh (100 kW, 1600 h)	1982	28,63	25,34	24,39	28,58	25,29	24,34
	1983	28,44	25,17	24,39	28,39	25,12	24,34
	1984	29,80	26,14	25,33	29,53	25,90	25,10
	1985	29,83	26,17	25,33	29,57	25,94	25,10
	1986	29,78	26,12	25,33	29,50	25,88	25,10
	1987	30,12	26,42	25,33	29,85	26,18	25,10
I _d	1980	18,14	16,05	15,43	17,84	15,79	15,18
	1981	19,39	17,16	16,50	17,84	15,79	15,18
1 250 000 kWh (500 kW, 2500 h)	1982	23,06	20,41	19,64	23,05	20,40	19,63
	1983	22,91	20,27	19,64	22,89	20,26	19,63
	1984	24,11	21,15	20,49	23,83	20,90	20,25
	1985	24,13	21,17	20,49	23,85	20,92	20,25
	1986	24,09	21,13	20,49	23,80	20,88	20,25
	1987	24,36	21,37	20,49	24,08	21,12	20,25
I _e	1980	14,18	12,55	12,07	15,03	13,30	12,79
	1981	15,12	13,38	12,87	15,03	13,30	12,79
2 000 000 kWh (500 kW, 4000 h)	1982	18,52	16,39	15,77	19,56	17,31	16,66
	1983	18,66	16,51	16,00	19,42	17,19	16,66
	1984	19,73	17,31	16,77	20,22	17,74	17,19
	1985	19,74	17,32	16,77	20,25	17,76	17,19
	1986	19,71	17,29	16,77	20,20	17,72	17,19
	1987	19,94	17,49	20,49	20,44	17,93	17,19
I _f	1980	13,89	12,29	11,82	14,09	12,47	11,99
	1981	14,80	13,10	12,60	14,09	12,47	11,99
10 000 000 kWh (2500 kW, 4000 h)	1982	18,16	16,07	15,47	18,90	16,73	16,10
	1983	18,29	16,19	15,69	18,78	16,62	16,10
	1984	19,37	16,99	16,46	19,56	17,16	16,63
	1985	19,38	17,00	16,46	19,60	17,19	16,63
	1986	19,35	16,97	16,46	19,55	17,15	16,63
	1987	19,57	17,17	16,46	19,78	17,35	16,63
I _g	1980	-	-	-	11,98	10,60	10,19
	1981	-	-	-	12,02	10,64	10,19
24 000 000 kWh (4000 kW, 6000 h)	1982	-	-	-	16,49	14,59	14,04
	1983	-	-	-	16,37	14,49	14,04
	1984	-	-	-	17,20	15,09	14,62
	1985	-	-	-	17,21	15,10	14,62
	1986	16,94	14,86	14,41	17,19	15,08	14,62
	1987	16,95	14,87	14,26	17,39	15,25	14,62

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

FRANCE

Centimes/kWh

January/Janvier	Lille			Paris		
	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
	Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
b _a 1980	76,81	65,98	61,54	78,87	68,04	61,54
600 kWh	1981	80,02	68,74	64,12	82,17	70,89
	1982	91,30	78,43	73,16	93,76	80,89
	1983	99,53	84,82	79,12	102,19	87,47
	1984	105,42	89,83	83,80	108,24	92,65
	1985	101,52	86,51	80,70	104,23	89,22
	1986	105,41	89,92	83,26	107,54	92,05
	1987	105,35	89,02	82,43	106,46	91,13
b _b 1980	56,21	48,28	45,04	57,72	49,80	45,04
1 200 kWh	1981	58,98	50,66	47,26	60,57	52,25
	1982	67,33	57,83	53,95	69,15	59,65
	1983	76,32	65,04	60,67	78,36	67,08
	1984	81,63	69,72	65,04	84,01	71,91
	1985	85,61	72,95	68,05	87,90	75,24
	1986	91,14	77,75	71,99	92,98	79,59
	1987	90,23	76,97	71,27	92,06	78,80
b _c 1980	45,36	38,96	36,34	46,58	40,18	36,34
(1 300 kWh night/nuit)	1981	47,61	40,90	38,15	48,89	42,18
	1982	55,12	47,35	44,17	56,60	48,83
	1983	63,08	53,75	50,14	64,76	55,43
	1984	71,28	60,74	56,66	73,18	62,64
	1985	75,26	64,13	59,82	77,27	66,14
	1986	78,32	66,81	61,86	79,90	68,39
	1987	77,54	66,15	61,25	79,11	67,72
b _d 1980	41,65	35,38	33,38	42,77	36,90	33,38
(2 500 kWh night/nuit)	1981	43,88	37,69	35,16	45,06	38,87
	1982	50,93	43,75	40,81	52,30	45,12
	1983	58,39	49,76	46,42	59,95	51,32
	1984	66,35	56,54	52,74	68,12	58,31
	1985	70,20	59,82	55,80	72,07	61,69
	1986	73,29	62,52	57,89	74,77	64,00
	1987	72,55	61,89	57,31	74,02	63,36
b _e 1980	33,09	28,42	26,51	33,98	29,31	26,51
(15000 kWh night/nuit)	1981	34,81	29,90	27,89	35,74	30,83
	1982	40,65	34,92	32,57	41,75	36,01
	1983	46,63	39,74	37,07	47,88	40,99
	1984	52,98	45,15	42,12	54,40	46,57
	1985	56,12	47,82	44,61	57,62	49,32
	1986	58,80	50,16	46,44	59,98	51,34
	1987	58,20	49,65	45,97	59,37	50,82

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

FRANCE

Centimes / kWh

January/Janvier		Marseille			Lyon		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D_a	1980	78,28	67,45	61,54	76,31	65,48	61,54
600 kWh	1981	81,56	70,28	64,12	79,51	68,22	64,12
	1982	93,06	80,18	73,16	90,72	77,84	73,16
	1983	101,43	86,72	79,12	98,90	84,18	79,12
	1984	107,43	91,84	83,80	104,75	89,16	83,80
	1985	103,46	88,45	80,70	100,87	85,86	80,70
	1986	106,74	91,25	83,26	106,74	91,25	83,26
	1987	105,67	90,34	82,43	105,67	90,34	82,43
D_b	1980	57,29	49,36	45,04	55,85	47,92	45,04
1 200 kWh	1981	60,11	51,80	47,26	58,60	50,28	47,26
	1982	68,62	59,13	53,95	66,90	57,40	53,95
	1983	77,78	66,49	60,67	75,84	64,55	60,67
	1984	83,38	71,28	65,04	81,30	69,20	65,04
	1985	87,24	74,58	68,05	85,07	72,41	68,05
	1986	92,29	78,90	71,99	92,29	78,90	71,99
	1987	91,37	78,11	71,27	91,37	78,11	71,27
D_c	1980	46,23	38,67	36,34	45,07	38,67	36,34
(3 500 kWh (1 300 kWh night/nuit)	1981	48,53	41,81	38,15	47,31	40,59	38,15
	1982	56,18	48,41	44,17	54,77	47,00	44,17
	1983	64,28	54,95	50,14	62,68	53,35	50,14
	1984	72,64	62,10	56,66	70,83	60,29	56,66
	1985	76,69	65,56	59,82	74,78	63,65	59,82
	1986	79,31	67,80	61,86	79,31	67,80	61,86
	1987	78,52	67,13	61,25	78,52	67,13	61,25
D_d	1980	42,45	36,58	33,38	41,39	35,52	33,38
(7 500 kWh (2 500 kWh night/nuit)	1981	44,73	38,54	35,16	43,60	37,41	35,16
	1982	51,91	44,73	40,81	50,60	43,42	40,81
	1983	59,51	50,88	46,42	58,02	49,39	46,42
	1984	67,61	57,80	52,74	65,93	56,12	52,74
	1985	71,54	61,16	55,80	69,75	59,37	55,80
	1986	74,22	63,45	57,89	74,22	63,45	57,89
	1987	73,47	62,81	57,31	73,47	62,81	57,31
D_e	1980	33,72	28,21	26,51	32,88	28,21	26,51
(20 000 kWh (15000 kWh night/nuit)	1981	35,48	30,57	27,89	34,58	29,67	27,89
	1982	41,43	35,70	32,57	40,39	34,65	32,57
	1983	47,52	40,63	37,07	46,34	39,44	37,07
	1984	53,99	46,16	42,12	52,65	44,82	42,12
	1985	57,19	48,89	44,61	55,77	47,47	44,61
	1986	59,54	50,90	46,44	59,54	50,90	46,44
	1987	58,93	50,38	45,97	58,93	50,38	45,97

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

FRANCE

Centimes /kWh

January/Janvier		Toulouse			Strasbourg		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D _a	1980	77,30	66,47	61,54	74,34	63,60	61,54
	1981	80,53	69,25	64,12	77,46	66,17	64,12
	1982	91,89	79,01	73,16	88,38	75,50	73,16
	1983	100,17	85,45	79,12	96,37	81,65	79,12
	1984	106,09	90,50	83,80	102,07	86,48	83,20
	1985	102,17	87,16	80,70	98,29	83,28	80,70
	1986	106,74	91,25	83,26	101,41	85,92	83,26
D _b	1987	105,67	90,34	82,43	100,40	85,07	82,43
	1980	56,57	48,64	45,04	54,41	46,48	45,04
	1981	59,36	51,04	47,26	57,09	48,77	47,26
	1982	67,76	58,27	53,95	65,18	55,68	53,95
	1983	76,81	62,52	60,67	73,89	62,61	60,67
	1984	82,34	70,24	65,04	79,22	67,12	65,04
	1985	86,15	73,49	68,05	82,89	70,23	68,05
D _c	1986	92,29	78,90	71,99	87,68	74,29	71,99
	1987	91,37	78,11	71,27	86,81	73,55	71,27
	1980	45,65	39,25	36,34	43,90	37,50	36,34
	1981	47,92	41,20	38,15	46,08	39,37	38,15
	1982	55,48	47,70	44,17	53,35	45,58	44,17
	(1 300 kWh night/nuit)	63,48	54,15	50,14	61,07	51,74	50,14
	1983	71,73	61,19	56,66	69,01	58,47	56,66
D _d	1984	75,74	64,59	59,82	72,86	61,73	59,82
	1985	79,31	67,80	61,86	75,35	63,84	61,86
	1986	78,52	67,13	61,25	74,58	63,21	61,25
	1987	73,47	62,81	57,31	69,80	59,14	57,31
	1980	41,92	36,05	33,38	40,32	34,45	33,38
	1981	44,16	37,97	35,16	42,48	36,29	35,16
	1982	51,25	44,07	40,81	49,30	42,12	40,81
D _e	(2 500 kWh night/nuit)	58,76	50,13	46,42	56,54	47,91	46,42
	1983	66,77	56,96	52,74	64,24	54,43	52,74
	1984	70,64	60,26	55,80	67,97	57,59	55,80
	1985	74,22	63,45	57,89	70,51	59,74	57,89
	1986	73,47	62,81	57,31	69,80	59,14	57,31
	1987	53,30	28,63	26,51	32,03	27,36	26,51
	1980	35,03	30,12	27,89	33,69	28,78	27,89
(15000 kWh night/nuit)	1981	40,91	35,18	32,57	39,34	33,61	32,57
	1982	46,93	40,04	37,07	45,16	38,26	37,07
	1983	53,32	45,49	42,12	51,30	43,47	41,12
	1984	56,48	48,18	44,61	54,34	46,04	44,61
	1985	59,54	50,90	46,44	56,57	47,93	46,44
	1986	58,93	50,38	45,97	55,99	47,44	45,97

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

FRANCE

centimes/kWh

		Lille			Paris		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	46,03	39,14	39,14	46,03	39,14	39,14
30 000 kWh (30 kW, 1000 h)	1981	48,87	41,22	41,22	48,87	41,22	41,22
	1982	55,66	47,33	47,33	55,66	47,33	47,33
	1983	64,93	54,75	54,75	64,93	54,75	54,75
	1984	87,87	74,09	74,09	87,87	74,09	74,09
	1985	92,59	78,07	78,07	92,59	78,07	78,07
	1986	101,17	86,30	79,94	103,25	88,38	79,94
	1987	100,19	85,47	79,14	100,22	87,50	79,14
I _b	1980	46,03	39,14	39,14	46,03	39,14	39,14
50 000 kWh (50 kW, 1000 h)	1981	48,47	41,22	41,22	48,47	41,22	41,22
	1982	55,66	47,33	47,33	55,66	47,33	47,33
	1983	64,93	54,75	54,75	64,93	54,75	54,75
	1984	80,62	67,98	67,98	80,62	67,98	67,98
	1985	84,08	70,89	70,89	84,08	70,89	70,89
	1986	88,02	74,56	72,39	88,72	75,26	72,39
	1987	87,14	73,81	71,66	87,83	74,50	71,66
I _c	1980	39,41	33,51	33,51	39,41	33,51	33,51
160 000 kWh (100 kW, 1600 h)	1981	41,70	35,46	35,46	41,70	35,46	35,46
	1982	48,46	41,21	41,21	48,46	41,21	41,21
	1983	58,56	49,38	49,38	58,56	49,38	49,38
	1984	64,67	54,53	54,53	64,67	54,53	54,53
	1985	67,84	47,08	47,08	55,84	47,08	47,08
	1986	71,47	60,54	58,78	72,04	61,11	58,78
	1987	69,76	59,94	58,19	71,31	60,49	58,19
I _d	1980	32,79	27,88	27,88	32,79	27,88	27,88
1 250 000 kWh (500 kW, 2500 h)	1981	34,89	29,67	29,67	34,89	29,67	29,67
	1982	40,36	34,32	34,32	40,36	34,32	34,32
	1983	46,55	39,25	39,25	46,55	39,25	39,25
	1984	52,31	44,11	44,11	52,31	44,11	44,11
	1985	55,84	47,08	47,08	55,84	47,08	47,08
	1986	57,00	48,06	48,06	57,00	48,06	48,06
	1987	56,42	47,57	47,57	56,42	47,57	47,57
I _e	1980	28,34	24,10	24,10	28,34	24,10	24,10
2 000 000 kWh (500 kW, 4000 h)	1981	30,25	25,72	25,72	30,25	25,72	25,72
	1982	34,67	29,48	29,48	34,67	29,48	29,48
	1983	39,43	33,25	33,25	39,43	33,25	33,25
	1984	43,80	36,93	36,93	43,80	36,93	36,93
	1985	45,78	38,60	38,60	45,78	38,60	38,60
	1986	46,80	39,46	39,46	46,80	39,46	39,46
	1987	46,33	39,06	39,06	46,33	39,06	39,06
I _f	1980	27,92	23,74	23,74	27,92	23,74	23,74
10 000 000 kWh (2500 kW, 4000 h)	1981	29,81	25,35	25,35	29,81	25,35	25,35
	1982	34,14	29,03	29,03	34,14	29,03	29,03
	1983	38,79	32,71	32,71	38,79	32,71	32,71
	1984	43,35	36,51	36,51	43,35	36,51	36,51
	1985	45,78	38,60	38,60	45,78	38,60	38,60
	1986	46,80	39,46	39,46	46,80	39,46	39,46
	1987	46,41	39,13	39,13	46,41	39,13	39,13
I _g	1980	23,96	20,37	20,37	23,96	20,37	20,37
24 000 000 kWh (4000 kW, 6000 h)	1981	25,71	21,86	21,86	25,71	21,86	21,86
	1982	29,24	24,86	24,86	29,24	24,86	24,86
	1983	32,88	27,72	27,72	32,88	27,72	27,72
	1984	36,59	30,85	30,85	36,59	30,85	30,85
	1985	38,07	32,10	32,10	38,07	32,10	32,10
	1986	39,32	33,15	33,15	39,32	33,15	33,15
	1987	38,92	32,82	32,82	38,92	32,82	32,82

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

FRANCE

centimes/kWh

		Marseille - Lyon - Toulouse			Strasbourg		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	46,03	39,14	39,14	46,03	39,14	39,14
	1981	48,47	41,22	41,22	48,47	41,22	41,22
30 000 kWh (30 kW, 1000 h)	1982	55,66	47,33	47,33	55,66	47,33	47,33
	1983	64,93	54,75	54,75	64,93	54,75	54,75
	1984	87,87	74,09	74,09	87,87	74,09	74,09
	1985	92,59	78,07	78,07	92,59	78,07	78,07
	1986	102,48	87,61	79,94	97,47	82,50	79,94
	1987	101,46	86,74	79,14	96,39	81,67	79,14
I _b	1980	46,03	39,14	39,14	46,03	39,14	39,14
	1981	48,47	41,22	41,22	48,47	41,22	41,22
50 000 kWh (50 kW, 1000 h)	1982	55,66	47,33	47,33	55,66	47,33	47,33
	1983	64,93	54,75	54,75	64,93	54,75	54,75
	1984	80,62	67,98	67,98	80,62	67,98	67,98
	1985	84,08	70,89	70,89	84,08	70,89	70,89
	1986	88,46	75,00	72,39	86,72	73,26	72,39
	1987	87,57	74,24	71,66	85,85	72,52	71,66
I _c	1980	39,41	33,51	33,51	39,41	33,51	33,51
	1981	41,70	35,46	35,46	41,70	35,46	35,46
160 000 kWh (100 kW, 1600 h)	1982	48,46	41,21	41,21	48,46	41,21	41,21
	1983	58,56	49,38	49,38	58,56	49,38	49,38
	1984	64,67	54,53	54,53	64,67	54,53	54,53
	1985	67,84	57,20	57,20	67,84	57,20	57,20
	1986	71,83	60,90	58,78	70,42	59,49	58,78
	1987	71,10	60,28	58,19	69,71	58,89	58,19
I _d	1980	32,79	27,88	27,88	32,79	27,88	27,88
	1981	34,89	29,67	29,67	34,89	29,67	29,67
1 250 000 kWh (500 kW, 2500 h)	1982	40,36	34,32	34,32	40,36	34,32	34,32
	1983	46,55	39,25	39,25	46,55	39,25	39,25
	1984	52,31	44,11	44,11	52,31	44,11	44,11
	1985	55,84	47,08	47,08	55,84	47,08	47,08
	1986	57,00	48,06	48,06	57,00	48,06	48,06
	1987	56,42	47,57	47,57	56,42	47,57	47,57
I _e	1980	28,34	24,10	24,10	28,34	24,10	24,10
	1981	30,25	25,72	25,72	30,25	25,72	25,72
2 000 000 kWh (500 kW, 4000 h)	1982	34,67	29,48	29,48	34,67	29,48	29,48
	1983	39,43	33,25	33,25	39,43	33,25	33,25
	1984	43,80	36,93	36,93	43,80	36,93	36,93
	1985	45,78	38,60	38,60	45,78	38,60	38,60
	1986	46,80	39,46	39,46	46,80	39,46	39,46
	1987	46,33	39,06	39,06	46,33	39,06	39,06
I _f	1980	27,92	23,74	23,74	27,92	23,74	23,74
	1981	29,81	25,35	25,35	29,81	25,35	25,35
10 000 000 kWh (2500 kW, 4000 h)	1982	34,14	29,03	29,03	34,14	29,03	29,03
	1983	38,79	32,71	32,71	38,79	32,71	32,71
	1984	43,35	36,51	36,51	43,35	36,51	36,51
	1985	45,78	38,60	38,60	45,78	38,60	38,60
	1986	46,80	39,46	39,46	46,80	39,46	39,46
	1987	46,41	39,13	39,13	46,33	39,06	39,06
I _g	1980	23,96	20,37	20,37	23,96	20,37	20,37
	1981	25,71	21,86	21,86	25,71	21,86	21,86
24 000 000 kWh (4000 kW, 6000 h)	1982	29,24	24,86	24,86	29,24	24,86	24,86
	1983	32,88	27,72	27,72	32,88	27,72	27,72
	1984	36,59	30,85	30,85	36,59	30,85	30,85
	1985	38,07	32,10	32,10	38,07	32,10	32,10
	1986	39,32	33,15	33,15	39,32	33,15	33,15
	1987	38,92	32,82	32,82	38,92	32,82	32,82

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

ITALIA

LIT/kWh

January/Janvier		Settentrionale e Centrale			Meridionale e Insulare		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D_a	1980	50,40	47,55	46,45	49,82	47,00	46,45
	1981	61,51	56,95	55,85	60,91	56,40	55,85
	1982	77,56	72,00	70,90	77,17	71,45	70,90
	1983	97,96	90,71	89,60	97,36	90,15	89,60
	1984	102,38	94,80	93,70	101,79	94,25	93,70
	1985	112,71	103,40	102,30	112,11	102,85	102,30
	1986	118,70	108,90	107,80	118,10	108,35	107,80
D_b	1987	102,57	94,10	93,00	101,97	93,55	93,00
	1980	56,23	53,05	51,95	55,65	52,50	51,95
	1981	70,71	65,48	64,38	70,12	64,93	64,38
	1982	87,22	80,76	79,66	86,63	80,21	79,66
	1983	113,79	105,36	101,76	113,19	104,81	101,76
	1984	129,44	119,85	116,00	128,84	119,30	116,00
	1985	140,28	128,70	124,60	139,68	128,15	124,60
D_c	1986	146,55	134,45	130,10	145,95	133,90	130,10
	1987	132,82	121,85	117,50	132,22	121,30	117,50
	1980	93,40	88,11	87,01	92,82	87,57	87,01
	1981	114,16	105,70	104,60	113,56	105,15	104,60
	1982	131,55	121,81	120,71	130,96	121,26	120,71
	(1 300 kWh night/nuit) 1983	172,44	159,67	148,57	171,85	159,12	148,57
	1984	321,60	214,44	202,34	231,00	213,89	202,34
D_d	1985	246,66	226,29	213,19	246,06	225,74	213,19
	1986	255,21	234,14	220,04	254,61	233,59	220,04
	1987	213,90	196,24	182,14	213,30	195,69	182,14
	1980	85,99	81,12	80,02	85,40	80,57	80,02
	1981	105,34	97,54	96,44	104,75	96,99	96,44
	1982	122,56	113,48	112,38	121,96	112,93	112,38
	(2 500 kWh night/nuit) 1983	151,07	139,88	138,78	150,48	139,33	138,78
D_e	1984	216,36	200,33	188,23	215,76	199,78	188,23
	1985	231,28	212,18	199,08	230,68	211,63	199,08
	1986	256,72	235,52	221,42	256,12	234,97	221,41
	1987	198,52	182,13	168,03	197,92	181,58	168,03
	1980						
	1981						
	1982						
D_f	1983						
	1984						
	1985						
	1986						
	1987						

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

ITALIA

LIT/kWh

		Settentriionale e Centrale			Meridionale e Insulare		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	83,74	73,46	72,61	62,44	54,77	54,36
	1981	100,64	92,73	91,63	81,85	71,18	70,63
30 000 kWh (30 kW, 1000 h)	1982	125,41	109,05	107,95	99,87	86,84	86,29
	1983	173,52	147,05	137,95	147,04	124,61	116,06
	1984	217,56	184,37	174,27	181,55	153,86	144,31
	1985	273,55	231,82	220,72	228,41	193,57	183,02
	1986	285,67	242,09	229,99	240,00	203,89	191,84
	1987	236,34	200,29	188,19	190,68	161,59	150,04
I _b	1980	88,92	78,00	77,16	88,44	77,57	77,16
	1981	111,36	96,83	95,73	110,72	96,28	95,73
50 000 kWh (50 kW, 1000 h)	1982	130,12	113,15	112,05	129,49	112,60	112,05
	1983	173,52	147,05	137,95	172,87	146,50	137,95
	1984	193,35	163,86	153,76	192,71	163,31	153,76
	1985	243,32	206,20	195,10	242,67	205,65	195,10
	1986	249,56	211,49	199,39	248,91	210,94	199,39
	1987	204,66	173,44	161,34	204,01	172,89	161,34
I _c	1980	78,71	69,04	68,60	78,46	68,22	68,60
	1981	99,62	86,63	85,53	98,99	86,08	85,53
160 000 kWh (100 kW, 1600 h)	1982	113,69	98,86	97,76	113,06	98,31	97,76
	1983	152,70	129,41	120,31	152,05	128,86	120,31
	1984	168,76	143,02	132,92	168,11	142,47	132,92
	1985	196,21	180,01	168,91	195,61	179,46	168,91
	1986	204,76	187,85	175,76	204,17	187,31	175,76
	1987	163,35	149,86	137,76	162,75	149,31	137,76
I _d	1980	65,21	57,20	56,80	64,98	57,00	56,80
	1981	82,82	72,01	70,91	82,18	71,46	70,91
1 250 000 kWh (500 kW, 2500 h)	1982	100,47	87,36	86,26	99,83	86,81	86,26
	1983	135,87	115,14	106,04	135,22	114,59	106,04
	1984	148,88	126,17	116,07	148,23	125,62	116,07
	1985	167,72	153,87	143,22	167,61	153,77	143,22
	1986	176,77	162,17	150,07	176,17	161,62	150,07
	1987	135,35	124,17	112,07	134,75	123,62	112,07
I _e	1980	60,92	53,44	53,04	60,69	53,24	53,04
	1981	77,76	67,62	66,52	77,13	67,07	66,52
2 000 000 kWh (500 kW, 4000 h)	1982	95,25	82,83	81,73	94,62	82,28	81,73
	1983	129,17	109,47	100,37	128,53	108,92	100,37
	1984	141,00	119,49	109,39	140,35	118,94	109,39
	1985	146,25	134,17	123,52	146,14	134,07	123,52
	1986	153,91	141,20	129,10	153,31	140,65	129,10
	1987	125,16	114,83	102,73	124,57	114,28	102,73
I _f	1980	58,10	50,96	50,64	57,91	50,80	50,64
	1981	74,15	64,48	63,72	73,71	64,10	63,72
10 000 000 kWh (2500 kW, 4000 h)	1982	91,52	79,59	78,83	91,09	79,21	78,83
	1983	114,94	97,41	96,65	114,50	97,03	96,65
	1984	124,90	105,85	105,09	124,45	105,47	105,09
	1985	136,10	124,86	124,10	135,68	124,48	124,10
	1986	142,03	130,30	129,54	141,61	129,92	129,54
	1987	112,28	103,01	102,25	111,87	102,63	102,25
I _g	1980	52,28	45,86	45,55	52,11	45,71	45,55
	1981	66,73	58,03	57,72	66,56	57,88	57,72
24 000 000 kWh (4000 kW, 6000 h)	1982	85,36	74,23	73,53	84,95	73,87	73,53
	1983	106,77	90,48	89,78	106,34	90,12	89,78
	1984	116,44	97,68	96,98	114,84	97,32	96,98
	1985	100,69	92,38	91,68	100,30	92,02	91,68
	1986	104,86	96,20	95,50	104,47	95,84	95,50
	1987	84,28	77,32	76,62	83,89	76,96	76,62

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

NEDERLAND

cents/kWh

January/Janvier		Rotterdam			Noord-Holland		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
b_a	1980	31,86	27,00	27,00	29,85	25,30	25,30
600 kWh	1981	34,57	29,30	29,30	32,45	27,50	27,50
	1982	39,18	33,20	33,20	35,90	31,30	31,30
	1983	40,95	34,70	34,70	37,88	32,10	32,10
	1984	40,82	34,30	34,30	38,71	32,53	32,53
	1985	41,65	35,00	35,00	41,19	34,61	34,61
	1986	40,22	33,80	33,80	38,38	32,35	32,35
	1987	36,01	30,01	30,01	31,25	26,04	26,04
b_b	1980	26,31	22,30	22,30	26,55	22,50	22,50
1 200 kWh	1981	29,03	24,60	24,60	29,15	24,70	24,70
	1982	33,51	28,40	28,40	33,15	28,55	28,55
	1983	34,93	29,60	29,60	33,75	28,60	28,60
	1984	34,57	29,05	29,05	34,55	29,03	29,03
	1985	35,40	29,75	29,75	36,28	30,49	30,49
	1986	33,97	28,55	28,55	32,74	27,51	27,51
	1987	29,08	24,23	24,23	25,55	21,29	21,29
b_c	1980	20,88	17,69	17,69	22,44	19,00	19,00
(1 300 kWh night/nuit)	1981	23,79	20,16	20,16	24,66	20,90	20,90
	1982	28,39	24,06	24,06	28,83	24,71	24,71
	1983	29,58	25,07	25,07	28,76	24,37	24,37
	1984	29,04	24,40	24,40	29,51	24,80	24,80
	1985	29,88	25,11	25,11	31,02	26,07	26,07
	1986	28,45	23,91	23,91	27,26	22,91	22,91
	1987	22,97	19,14	19,14	20,04	16,70	16,70
b_d	1980	19,61	16,62	16,62	21,12	17,90	17,90
(2 500 kWh night/nuit)	1981	22,42	19,00	19,00	23,98	20,30	20,30
	1982	26,89	22,79	22,79	28,46	24,12	24,12
	1983	27,42	23,04	23,04	27,85	23,60	23,60
	1984	27,42	23,04	23,04	28,55	23,99	23,99
	1985	28,25	23,74	23,74	29,88	25,11	25,11
	1986	26,83	22,55	22,55	25,92	21,78	21,78
	1987	21,16	17,64	17,64	18,68	15,57	15,57
b_e	1980	15,61	13,23	13,23	19,58	16,60	16,60
(15000 kWh night/nuit)	1981	18,36	15,56	15,56	19,82	16,80	16,80
	1982	22,77	19,30	19,30	24,23	20,61	20,61
	1983	23,86	20,22	20,22	25,32	21,46	21,46
	1984	23,15	19,45	19,45	26,05	21,89	21,89
	1985	23,98	20,15	20,15	27,86	23,41	23,41
	1986	22,56	18,96	18,96	24,38	20,49	20,49
	1987	16,45	13,71	13,71	17,41	14,28	14,28

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

January/Janvier	NEDERLAND			IRELAND		
	Noord-Brabant			cents/kWh		
	Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes	Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes
d_a	1980	29,03	24,60	24,60	5,232	5,232
600 kWh	1981	29,50	25,00	25,00	7,152	7,152
	1982	35,05	29,70	29,70	8,877	8,877
	1983	35,52	30,10	30,10	9,350	9,350
	1984	34,63	29,10	29,10	10,300	10,300
	1985	35,11	29,50	29,50	11,050	11,050
	1986	32,37	27,20	27,20	11,700	11,700
	1987	30,48	25,40	25,40	11,000	11,000
b_b	1980	22,77	19,30	19,30	4,332	4,332
1 200 kWh	1981	23,25	19,70	19,70	6,076	6,076
	1982	28,56	24,20	24,20	7,627	7,627
	1983	28,85	24,45	24,45	8,025	8,025
	1984	27,91	23,45	23,45	8,825	8,825
	1985	28,38	23,85	23,85	9,450	9,450
	1986	25,64	21,55	21,55	9,950	9,950
	1987	23,70	19,75	19,75	9,250	9,250
b_c	1980	17,79	15,08	15,08	3,228	3,228
(1 300 kWh night/nuit)	1981	18,28	15,49	15,49	4,686	4,686
	1982	23,40	19,83	19,83	5,911	5,911
	1983	23,45	19,87	19,87	5,951	5,951
	1984	22,41	18,83	18,83	6,474	6,474
	1985	22,89	19,23	19,23	6,913	6,913
	1986	20,11	16,90	16,90	7,184	7,184
	1987	18,12	15,10	15,10	6,447	6,447
b_d	1980	16,44	13,93	13,93	3,330	3,330
(2 500 kWh night/nuit)	1981	16,88	14,30	14,30	4,600	4,600
	1982	21,92	18,57	18,57	5,790	5,790
	1983	21,92	18,58	18,58	5,832	5,832
	1984	20,88	17,55	17,55	6,346	6,346
	1985	21,36	17,95	17,95	6,700	6,700
	1986	18,58	15,61	15,61	7,030	7,030
	1987	16,57	13,81	13,81	6,297	6,297
b_e	1980	13,83	11,72	11,72	2,465	2,465
(15000 kWh night/nuit)	1981	14,15	11,99	11,99	3,702	3,702
	1982	18,99	16,09	16,09	4,651	4,651
	1983	18,77	15,91	15,91	4,350	4,350
	1984	17,65	14,83	14,83	4,649	4,649
	1985	18,12	15,23	15,23	4,946	4,946
	1986	15,30	12,86	12,86	5,043	5,043
	1987	13,27	11,06	11,06	4,268	4,268

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ÉLECTRICITÉ POUR USAGES INDUSTRIELS

NEDERLAND

cents/kWh

		Rotterdam			Noord-Holland		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I_a	1980	30,96	26,24	26,24	25,25	21,40	21,40
	1981	31,97	27,09	27,09	28,68	24,31	24,31
	30 000 kWh (30 kW, 1000 h)	36,33	30,79	30,79	33,02	27,98	27,98
	1982	35,20	29,83	29,83	34,96	29,63	29,63
	1983	36,15	30,38	30,38	36,82	30,94	30,94
	1984	37,19	31,25	31,25	40,72	34,22	34,22
	1985	34,86	29,29	29,29	38,72	32,54	32,54
	1987	31,40	26,17	26,17	31,60	26,33	26,33
I_b	1980	30,17	25,57	25,57	24,99	21,18	21,18
	1981	31,97	27,09	27,09	28,41	24,07	24,07
	50 000 kWh (50 kW, 1000 h)	36,33	30,79	30,79	32,74	27,75	27,75
	1982	35,20	29,83	29,83	33,91	28,74	28,74
	1983	36,15	30,38	30,38	35,97	30,23	30,23
	1984	35,74	30,03	30,03	39,85	33,39	33,39
	1985	34,86	29,29	29,29	37,01	31,10	31,10
	1987	29,81	24,84	24,84	29,87	24,89	24,89
I_c	1980	25,43	21,55	21,55	22,88	19,39	19,39
	1981	27,49	23,30	23,30	26,15	22,16	22,16
	160 000 kWh 500 kW, 1600 h)	33,34	28,25	28,25	30,21	25,60	25,60
	1982	32,10	27,20	27,20	30,79	26,09	26,09
	1983	29,26	24,59	24,59	33,30	27,98	27,98
	1984	30,18	25,36	25,36	32,95	27,69	27,69
	1985	28,19	23,69	23,69	27,69	23,27	23,27
	1987	22,73	18,94	18,94	20,66	17,22	17,22
I_d	1980	20,77	17,60	17,60	19,42	16,46	16,46
	1981	22,79	19,31	19,31	22,47	19,04	19,04
	1 250 000 kWh (500 kW, 2500 h)	28,45	24,11	24,11	26,42	22,39	22,39
	1982	27,08	22,95	22,95	26,30	22,29	22,29
	1983	27,13	22,80	22,80	27,12	22,79	22,79
	1984	28,10	23,61	23,61	27,77	23,34	23,34
	1985	26,14	21,97	21,97	23,35	19,62	19,62
	1987	20,46	17,05	17,05	16,28	13,57	13,57
I_e	1980	18,24	15,46	15,46	17,12	14,51	14,51
	1981	20,23	17,14	17,14	20,11	17,04	17,04
	2 000 000 kWh (500 kW, 4000 h)	25,81	21,87	21,87	23,99	20,33	20,33
	1982	24,36	20,64	20,64	23,62	20,02	20,02
	1983	24,95	20,97	20,97	24,40	20,50	20,50
	1984	26,03	21,87	21,87	24,79	20,83	20,83
	1985	23,95	20,13	20,13	20,42	17,16	17,16
	1987	18,04	15,03	15,03	13,33	11,11	11,11
I_f	1980	17,13	14,52	14,52	16,50	13,98	13,98
	1981	19,02	16,12	16,12	19,47	16,50	16,50
	10 000 000 kWh (2500 kW, 4000 h)	24,31	20,60	20,60	23,33	19,77	19,77
	1982	22,93	19,43	19,43	22,70	19,24	19,24
	1983	22,99	19,32	19,32	23,42	19,68	19,68
	1984	24,10	20,25	20,25	21,88	18,39	18,39
	1985	22,18	18,64	18,64	19,27	16,19	16,19
	1987	16,21	13,51	13,51	12,17	10,14	10,14
I_g	1980	15,67	13,28	13,28	14,90	12,63	12,63
	1981	17,51	14,84	14,84	17,84	15,12	15,12
	24 000 000 kWh (4000 kW, 6000 h)	22,64	19,19	19,19	20,64	17,49	17,49
	1982	19,67	16,67	16,67	18,96	16,07	16,07
	1983	19,56	16,44	16,44	19,27	16,19	16,19
	1984	20,47	17,20	17,20	20,18	16,96	16,96
	1985	19,30	16,22	16,22	17,15	14,41	14,41
	1987	13,79	11,49	11,49	10,60	8,83	8,83

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

NEDERLAND

IRELAND

cents/kWh

p/kWh

		Noord-Brabant			Dublin		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	21,31	18,06	18,06	5,320	5,320	5,320
	1981	21,43	18,16	18,16	7,835	7,835	7,835
30 000 kWh (30 kW, 1000 h)	1982	27,62	23,41	23,41	9,711	9,711	9,711
	1983	26,22	22,22	22,22	9,653	9,653	9,653
	1984	25,30	21,26	21,26	10,129	10,129	10,129
	1985	23,28	19,56	19,56	10,633	10,633	10,633
	1986	23,28	19,56	19,56	10,633	10,633	10,633
	1987	26,30	21,92	21,92	10,660	10,660	10,660
I _b	1980	20,27	17,18	17,18	5,320	5,320	5,320
	1981	22,99	19,48	19,48	7,835	7,835	7,835
50 000 kWh (50 kW, 1000 h)	1982	26,07	22,09	22,09	9,711	9,711	9,711
	1983	25,24	21,39	21,39	9,653	9,653	9,653
	1984	24,25	20,38	20,38	10,129	10,129	10,129
	1985	22,23	18,68	18,68	10,633	10,633	10,633
	1986	22,23	18,68	18,68	10,633	10,633	10,633
	1987	25,25	21,04	21,04	10,516	10,516	10,516
I _c	1980	16,64	14,10	14,10	4,236	4,236	4,236
	1981	17,03	14,43	14,43	6,314	6,314	6,314
160 000 kWh (100 kW, 1600 h)	1982	21,64	18,34	18,34	7,937	7,937	7,937
	1983	21,52	18,24	18,24	7,916	7,916	7,916
	1984	20,49	17,22	17,22	8,374	8,374	8,374
	1985	20,91	17,57	17,57	8,790	8,790	8,790
	1986	18,46	15,51	15,51	8,790	8,790	8,790
	1987	16,44	13,70	13,70	8,455	8,455	8,455
I _d	1980	14,24	12,07	12,07	3,299	3,299	3,299
	1981	14,58	12,36	12,36	4,938	4,938	4,938
1 250 000 kWh (500 kW, 2500 h)	1982	19,13	16,21	16,21	6,271	6,271	6,271
	1983	18,96	16,07	16,07	6,283	6,283	6,283
	1984	17,89	15,03	15,03	6,690	6,690	6,690
	1985	18,31	15,39	15,39	6,933	6,933	6,933
	1986	15,84	13,31	13,31	6,933	6,933	6,933
	1987	13,80	11,50	11,50	6,445	6,445	6,445
I _e	1980	12,77	10,82	10,82	2,852	2,852	2,852
	1981	13,10	11,10	11,10	4,327	4,327	4,327
2 000 000 kWh (500 kW, 4000 h)	1982	17,58	14,90	14,90	5,539	5,539	5,539
	1983	17,39	14,74	14,74	5,514	5,514	5,514
	1984	16,27	13,67	13,67	5,903	5,903	5,903
	1985	16,68	14,02	14,02	6,098	6,098	6,098
	1986	14,20	11,93	11,93	6,098	6,098	6,098
	1987	12,16	10,13	10,13	5,274	5,274	5,274
I _f	1980	12,72	10,78	10,78	2,847	2,847	2,847
	1981	13,04	11,05	11,05	4,238	4,238	4,238
10 000 000 kWh (2500 kW, 4000 h)	1982	17,35	14,86	14,86	5,428	5,428	5,428
	1983	17,33	14,69	14,69	5,406	5,406	5,406
	1984	16,21	13,62	13,62	5,785	5,785	5,785
	1985	16,64	13,98	13,98	5,932	5,932	5,932
	1986	14,14	11,88	11,88	5,932	5,932	5,932
	1987	12,10	10,08	10,08	4,929	4,929	4,929
I _g	1980	11,70	9,91	9,91	2,590	2,590	2,590
	1981	12,00	10,17	10,17	3,900	3,900	3,900
24 000 000 kWh (4000 kW, 6000 h)	1982	16,46	13,95	13,95	5,012	5,012	5,012
	1983	15,79	13,38	13,38	5,003	5,003	5,003
	1984	14,60	12,27	12,27	5,291	5,291	5,291
	1985	14,99	12,60	12,60	5,360	5,360	5,360
	1986	12,70	10,67	10,67	5,360	5,360	5,360
	1987	10,84	9,03	9,03	4,226	4,226	4,226

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

BELGIQUE/BELGIË

BFR/kWh

GRAND-DUCHÉ DE LUXEMBOURG

LFR/kWh

January/Janvier		Bruxelles			Luxembourg		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D_a	1980	6,36	5,48	5,48	4,68	4,46	4,46
	1981	6,90	5,95	5,95	5,05	4,81	4,81
	1982	7,57	6,47	6,47	6,16	5,87	5,87
	1983	8,72	7,45	7,45	6,83	6,50	6,50
	1984	9,23	7,89	7,89	7,94	7,49	7,49
	1985	8,86	7,57	7,57	8,09	7,63	7,63
	1986	9,17	7,84	7,84	8,17	7,71	7,71
	1987	8,72	7,45	7,45	8,27	7,80	7,80
D_b	1980	4,96	4,28	4,28	3,70	3,53	3,53
	1981	5,48	4,72	4,72	4,01	3,82	3,82
	1982	6,05	5,17	5,17	4,57	4,35	4,35
	1983	6,97	5,96	5,96	5,08	4,84	4,84
	1984	7,30	6,24	6,24	5,94	5,60	5,60
	1985	7,64	6,53	6,53	6,04	5,70	5,70
	1986	7,80	6,67	6,67	6,10	5,75	5,75
	1987	7,42	6,34	6,34	6,16	5,81	5,81
D_c	1980	3,51	3,03	3,03	2,61	2,49	2,49
	1981	3,96	3,41	3,41	2,82	2,68	2,68
	1982	4,41	3,77	3,77	3,30	3,14	3,14
	1983	5,10	4,36	4,36	3,57	3,40	3,40
	1984	5,27	4,50	4,50	4,15	3,92	3,92
	1985	5,53	4,73	4,73	4,23	3,99	3,99
	1986	5,48	4,68	4,68	4,07	3,84	3,84
	1987	5,16	4,41	4,41	4,11	3,88	3,88
D_d	1980	3,24	2,79	2,79	2,06	1,96	1,96
	1981	3,69	3,18	3,18	2,25	2,14	2,14
	1982	4,12	3,52	3,52	3,03	2,88	2,88
	1983	4,76	4,07	4,07	3,47	3,31	3,31
	1984	4,90	4,19	4,19	4,07	3,84	3,84
	1985	5,10	4,36	4,36	4,15	3,91	3,91
	1986	5,00	4,27	4,27	3,98	3,75	3,75
	1987	4,69	4,01	4,01	4,00	3,77	3,77
D_e	1980	2,26	1,95	1,95	1,52	1,45	1,45
	1981	2,64	2,28	2,28	1,66	1,58	1,58
	1982	3,00	2,56	2,56	2,12	2,02	2,02
	1983	3,47	2,97	2,97	2,34	2,23	2,23
	1984	3,51	3,00	3,00	2,75	2,59	2,59
	1985	3,56	3,04	3,04	2,80	2,64	2,64
	1986	3,32	2,84	2,84	2,70	2,55	2,55
	1987	3,03	2,59	2,59	2,72	2,57	2,57

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

BELGIQUE/BELGIË

GRAND-DUCHÉ DE LUXEMBOURG

LFR/kWh

		Bruxelles			Luxembourg 0 %*		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	4,00	3,45	3,45	3,10	2,95	2,95
	1981	4,38	3,78	3,78	3,48	3,31	3,31
30 000 kWh (30 kW, 1000 h)	1982	4,70	4,02	4,02	5,39	5,14	5,14
	1983	5,51	4,71	4,71	6,13	5,84	5,84
	1984	5,81	4,97	4,97	7,33	6,91	6,91
	1985	5,90	5,04	5,04	7,43	7,01	7,01
	1986	6,10	5,21	5,21	7,49	7,07	7,07
	1987	5,85	5,00	5,00	7,64	7,21	7,21
I _b	1980	4,00	3,45	3,45	3,07	2,92	2,92
	1981	4,38	3,78	3,78	3,44	3,28	3,28
50 000 kWh (50 kW, 1000 h)	1982	4,70	4,02	4,02	5,35	5,10	5,10
	1983	5,51	4,71	4,71	6,08	5,79	5,79
	1984	5,81	4,91	4,91	7,28	6,87	6,87
	1985	5,92	5,02	5,02	7,40	6,98	6,98
	1986	6,06	5,18	5,18	7,45	7,03	7,03
	1987	5,82	4,98	4,98	7,59	7,16	7,16
I _c	1980	3,72	3,21	3,21	2,58	2,46	2,46
	1981	4,11	3,54	3,54	2,91	2,77	2,77
160 000 kWh (100 kW, 1600 h)	1982	4,40	3,76	3,76	4,00	3,79	3,79
	1983	5,16	4,41	4,41	4,52	4,31	4,31
	1984	5,42	4,63	4,63	5,42	5,11	5,11
	1985	5,35	4,57	4,57	5,51	5,20	5,20
	1986	5,49	4,69	4,69	5,52	5,21	5,21
	1987	5,22	4,46	4,46	5,62	5,30	5,30
I _d	1980	2,82	2,43	2,43	2,26	2,15	2,15
	1981	3,17	2,73	2,73	2,54	2,42	2,42
1 250 000 kWh (500 kW, 2500 h)	1982	3,44	2,94	2,94	3,13	2,98	2,98
	1983	4,02	3,44	3,44	3,56	3,39	3,39
	1984	4,15	3,55	3,55	4,26	4,02	4,02
	1985	4,31	3,68	3,68	4,34	4,09	4,09
	1986	4,22	3,61	3,61	4,31	4,07	4,07
	1987	3,92	3,35	3,35	4,40	4,15	4,15
I _e	1980	2,48	2,14	2,14	1,94	1,85	1,85
	1981	2,87	2,47	2,47	2,19	2,09	2,09
2 000 000 kWh	1982	3,09	2,64	2,64	2,56	2,44	2,44
	1983	3,63	3,10	3,10	2,91	2,77	2,77
	1984	3,71	3,17	3,17	3,49	3,29	3,29
	1985	3,84	3,28	3,28	3,55	3,35	3,35
	1986	3,70	3,86	3,86	2,51	3,51	3,51
	1987	3,37	2,88	2,88	3,58	3,38	3,38
I _f	1980	2,27	1,96	1,96	1,51	1,44	1,44
	1981	2,63	2,27	2,27	1,70	1,62	1,62
10 000 000 kWh (2500 kW, 4000 h)	1982	2,87	2,45	2,45	2,06	1,96	1,96
	1983	3,40	2,91	2,91	2,37	2,25	2,25
	1984	3,46	2,96	2,96	2,88	2,71	2,71
	1985	3,59	3,07	3,07	2,92	2,75	2,75
	1986	3,53	3,02	3,02	2,69	2,54	2,54
	1987	3,21	2,74	2,74	2,76	2,60	2,60
I _g	1980	1,89	1,63	1,63	1,61	1,53	1,53
	1981	2,25	1,94	1,94	1,40	1,33	1,33
24 000 000 kWh (4000 kW, 6000 h)	1982	2,47	2,11	2,11	1,68	1,60	1,60
	1983	2,93	2,50	2,50	1,93	1,84	1,84
	1984	2,95	2,52	2,52	2,35	2,22	2,22
	1985	3,08	2,64	2,64	2,39	2,25	2,25
	1986	3,05	2,61	2,61	2,23	2,10	2,10
	1987	2,80	2,39	2,39	2,29	2,16	2,16

* power reduction/effacement de puissance

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

GRAND-DUCHÉ DE LUXEMBOURG

LFR/kWh

		Luxembourg 50 %*			Luxembourg 100 %*		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	2,99	2,85	2,85	2,10	2,00	2,00
	1981	3,35	3,19	3,19	2,36	2,25	2,25
30 000 kWh (30 kW, 1000 h)	1982	4,18	3,98	3,98	3,01	2,87	2,87
	1983	4,74	4,52	4,52	3,42	3,26	3,26
	1984	5,67	5,35	5,35	4,08	3,85	3,85
	1985	5,78	5,45	5,45	4,12	3,89	3,89
	1986	5,77	5,44	5,44	4,12	3,89	3,89
	1987	5,88	5,55	5,55	4,21	3,97	3,97
I _b	1980	2,96	2,82	2,82	2,07	1,97	1,97
	1981	3,34	3,18	3,18	2,33	2,22	2,22
50 000 kWh (50 kW, 1000 h)	1982	4,17	3,97	3,97	2,95	2,81	2,81
	1983	4,74	4,51	4,51	3,35	3,19	3,19
	1984	5,67	5,35	5,35	4,01	3,78	3,78
	1985	5,75	5,42	5,42	4,09	3,86	3,86
	1986	5,78	5,45	5,45	4,05	3,82	3,82
	1987	5,88	5,55	5,55	4,12	3,89	3,89
I _c	1980	2,38	2,27	2,27	1,82	1,73	1,73
	1981	2,68	2,55	2,55	2,04	1,95	1,95
160 000 kWh (100 kW, 1600 h)	1982	3,23	3,08	3,08	2,49	2,37	3,27
	1983	3,67	3,50	3,50	2,69	2,69	2,69
	1984	4,40	4,15	4,15	3,39	3,20	3,20
	1985	4,47	4,22	4,22	3,45	3,25	3,25
	1986	4,45	4,20	4,20	3,40	3,21	3,21
	1987	4,54	4,28	4,28	3,47	3,27	3,27
I _d	1980	1,98	1,89	1,89	1,62	1,54	1,54
	1981	2,23	2,13	2,13	1,83	1,74	1,74
1 250 000 kWh (500 kW, 2500 h)	1982	2,65	2,52	2,52	2,17	2,07	2,07
	1983	3,01	2,87	2,87	2,47	2,35	2,35
	1984	3,62	3,40	3,40	2,96	2,79	2,79
	1985	3,67	3,46	3,46	3,01	2,84	2,84
	1986	3,64	3,43	3,43	2,96	2,79	2,79
	1987	3,71	3,50	3,50	3,01	2,84	2,84
I _e	1980	1,72	1,64	1,64	1,49	1,42	1,42
	1981	1,94	1,84	1,84	1,68	1,60	1,60
2 000 000 kWh (500 kW, 4000 h)	1982	2,26	2,15	2,15	1,96	1,87	1,87
	1983	2,57	2,45	2,45	2,23	2,13	2,13
	1984	3,08	2,91	2,91	2,67	2,52	2,52
	1985	3,14	2,96	2,96	2,71	2,56	2,56
	1986	3,08	2,91	2,91	2,66	2,51	2,51
	1987	3,15	2,97	2,97	2,71	2,56	2,56
I _f	1980	1,51	1,44	1,44	1,51	1,44	1,44
	1981	1,70	1,62	1,62	1,70	1,62	1,62
10 000 000 kWh (2500 kW, 4000 h)	1982	2,06	1,96	1,96	2,06	1,96	1,96
	1983	2,37	2,25	2,25	2,37	2,25	2,25
	1984	2,88	2,71	2,71	2,88	2,71	2,71
	1985	2,92	2,75	2,75	2,92	2,75	2,75
	1986	2,69	2,54	2,54	2,69	2,54	2,54
	1987	2,76	2,60	2,60	2,76	2,60	2,60
I _g	1980	1,61	1,53	1,53	1,61	1,53	1,53
	1981	1,40	1,33	1,33	1,40	1,33	1,33
24 000 000 kWh (4000 kW, 6000 h)	1982	1,68	1,60	1,60	1,68	1,60	1,60
	1983	1,93	1,84	1,84	1,93	1,84	1,84
	1984	2,35	2,22	2,22	2,22	2,22	2,22
	1985	2,39	2,25	2,25	2,39	2,25	2,25
	1986	2,23	2,10	2,10	2,23	2,10	2,10
	1987	2,29	2,16	2,16	2,29	2,16	2,16

* Power reduction/effacement de puissance

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

UNITED KINGDOM

P/kWh

January/Janvier		London			Glasgow		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D_a 600 kWh	1980	6,467	6,467	6,467	6,420	6,420	6,420
	1981	8,753	8,753	8,753	7,132	7,132	7,132
	1982	9,687	9,687	9,687	7,808	7,808	7,808
	1983	10,437	10,437	10,437	7,808	7,808	7,808
	1984	10,140	10,140	10,140	8,218	8,218	8,218
	1985	10,310	10,310	10,310	8,578	8,578	8,578
	1986	10,847	10,847	10,847			
	1987	10,783	10,783	10,783	8,920	8,920	8,920
D_b 1 200 kWh	1980	4,983	4,983	4,983	3,846	3,846	3,846
	1981	6,636	6,636	6,636	5,075	5,075	5,075
	1982	7,353	7,353	7,353	5,631	5,631	5,631
	1983	7,953	7,953	7,953	6,164	6,164	6,164
	1984	7,953	7,953	7,953	6,164	6,164	6,164
	1985	8,073	8,073	8,073	6,474	6,474	6,474
	1986	8,253	8,253	8,253	6,754	6,754	6,754
	1987	8,117	8,117	8,117	6,970	6,970	6,970
D_c (1 300 kWh night/nuit) 3 500 kWh	1980	3,489	3,489	3,489	2,912	2,912	2,912
	1981	4,548	4,548	4,548	3,805	3,805	3,805
	1982	5,028	5,028	5,028	4,221	4,221	4,221
	1983	5,438	5,438	5,438	4,595	4,595	4,595
	1984	5,438	5,438	5,438	4,595	4,595	4,595
	1985	5,529	5,529	5,529	4,809	4,809	4,809
	1986	5,635	5,635	5,635	5,012	5,012	5,012
	1987	5,463	5,463	5,463	5,115	5,115	5,115
D_d (2 500 kWh night/nuit) 7 500 kWh	1980	3,225	3,225	3,225	2,723	2,723	2,723
	1981	4,193	4,193	4,193	3,529	3,529	3,529
	1982	4,624	4,624	4,624	3,912	3,912	3,912
	1983	5,015	5,015	5,015	4,259	4,259	4,259
	1984	5,015	5,015	5,015	4,259	4,259	4,259
	1985	5,018	5,018	5,108	4,451	4,451	4,451
	1986	5,192	5,192	5,192	4,636	4,636	4,636
	1987	5,000	5,000	5,000	4,705	4,705	4,705
D_e (15000 kWh night/nuit) 20 000 kWh	1980	1,990	1,990	1,990	1,810	1,810	1,810
	1981	2,628	2,628	2,628	2,367	2,367	2,367
	1982	2,871	2,871	2,871	2,623	2,623	2,623
	1983	3,068	3,068	3,068	2,816	2,816	2,816
	1984	3,068	3,068	3,068	2,816	2,816	2,816
	1985	3,128	3,128	3,128	2,938	2,938	2,938
	1986	3,222	3,222	3,222	3,057	3,057	3,057
	1987	3,063	3,063	3,063	3,033	3,033	3,033

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

UNITED KINGDOM

P/kWh

January/Janvier		Birmingham			Leeds		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D _a	1980	5,720	5,720	5,720	5,613	5,613	5,613
	1981	7,387	7,387	7,387	5,257	5,257	5,257
600 kWh	1982	8,243	8,243	8,243	8,333	8,333	8,333
	1983	9,050	9,050	9,050	9,273	9,273	9,273
	1984	9,050	9,050	9,050	9,273	9,273	9,273
	1985	9,150	9,150	9,150	9,313	9,313	9,313
	1986	9,580	9,580	9,580	9,803	9,803	9,803
	1987	9,787	9,787	9,787	10,137	10,137	10,137
D _b	1980	4,470	4,470	4,470	4,427	4,427	4,427
	1981	5,803	5,803	5,803	5,723	5,723	5,723
1 200 kWh	1982	6,477	6,477	6,477	6,517	6,517	6,517
	1983	7,110	7,110	7,110	7,157	7,157	7,157
	1984	7,110	7,110	7,110	7,157	7,157	7,157
	1985	7,210	7,210	7,210	7,257	7,257	7,257
	1986	7,550	7,550	7,550	7,587	7,587	7,587
	1987	7,653	7,653	7,653	7,803	7,803	7,803
D _c	1980	3,156	3,156	3,156	3,195	3,195	3,195
	1981	4,136	4,136	4,136	4,133	4,133	4,133
3 500 kWh (1 300 kWh night/nuit)	1982	4,607	4,607	4,607	4,625	4,625	4,625
	1983	5,019	5,019	5,019	4,994	4,994	4,994
	1984	5,019	5,019	5,019	4,994	4,994	4,994
	1985	5,097	5,097	5,097	5,071	5,071	5,017
	1986	5,341	5,341	5,341	5,299	5,299	5,299
	1987	5,340	5,340	5,340	5,361	5,361	5,361
D _d	1980	-	-	-	-	-	-
	1981	-	-	-	-	-	-
7 500 kWh (2 500 kWh night/nuit)	1982	3,980	3,980	3,980	-	-	-
	1983	4,320	4,320	4,320	-	-	-
	1984	4,413	4,413	4,413	-	-	-
	1985	4,493	4,493	4,493	-	-	-
	1986	4,947	4,947	4,947	4,916	4,916	4,916
	1987	4,924	4,924	4,924	4,960	4,960	4,960
D _e	1980	1,870	1,870	1,870	1,950	1,950	1,950
	1981	2,498	2,498	2,498	2,510	2,510	2,510
20 000 kWh (15000 kWh night/nuit)	1982	2,738	2,738	2,738	2,756	2,756	2,756
	1983	2,929	2,929	2,929	2,923	2,923	2,923
	1984	2,929	2,929	2,929	2,923	2,923	2,923
	1985	2,984	2,984	2,984	2,978	2,978	2,978
	1986	3,130	3,130	3,130	3,119	3,119	3,119
	1987	3,034	3,034	3,034	3,048	3,048	3,048

UNITED KINGDOM

P/kWh

		London			Glasgow		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	-	-	-	-	-	-
30 000 kWh (30 kW, 1000 h)	1981	5,220	5,220	5,220	5,012	5,102	5,102
	1982	5,756	5,756	5,756	5,581	5,581	5,581
	1983	6,318	6,318	6,318	6,051	6,051	6,051
	1984	6,214	6,214	6,214	6,051	6,051	6,051
	1985	6,315	6,315	6,315	6,312	6,312	6,312
	1986	6,355	6,355	6,355	6,561	6,561	6,561
	1987	5,961	5,961	5,961	6,711	6,711	6,711
I _b	1980	4,448	4,448	4,448	3,967	3,867	3,867
50 000 kWh (50 kW, 1000 h)	1981	5,220	5,220	5,220	4,949	4,949	4,949
	1982	5,712	5,712	5,712	5,413	5,413	5,413
	1983	6,243	6,243	6,243	5,867	5,867	5,867
	1984	6,132	6,132	6,132	5,867	5,867	5,867
	1985	6,233	6,233	6,233	6,115	6,115	6,115
	1986	6,265	6,265	6,265	6,357	6,357	6,357
	1987	5,865	5,865	5,865	6,519	6,519	6,519
I _c	1980	3,777	3,777	3,777	3,525	3,525	3,525
160 000 kWh (100 kW, 1600 h)	1981	4,681	4,681	4,681	4,528	4,528	4,528
	1982	5,313	5,313	5,313	5,017	5,017	5,017
	1983	5,823	5,823	5,823	5,460	5,460	5,460
	1984	5,693	5,693	5,693	5,532	5,532	5,532
	1985	5,803	5,803	5,803	5,788	5,788	5,788
	1986	6,055	6,055	6,055	6,05	6,055	6,055
	1987	6,020	6,020	6,020	6,178	6,178	6,178
I _d	1980	3,178	3,178	3,178	2,800	2,800	2,800
1 250 000 kWh (500 kW, 2500 h)	1981	3,891	3,891	3,891	3,688	3,688	3,688
	1982	4,326	4,326	4,326	4,029	4,029	4,029
	1983	4,678	4,678	4,678	4,363	4,363	4,363
	1984	4,439	4,439	4,439	4,435	4,435	4,435
	1985	4,544	4,544	4,544	4,640	4,640	4,640
	1986	4,633	4,633	4,633	4,853	4,853	4,853
	1987	4,558	4,558	4,558	4,923	4,923	4,923
I _e	1980	2,783	2,783	2,783	2,447	2,447	2,447
2 000 000 kWh (500 kW, 4000 h)	1981	3,346	3,346	3,346	2,987	2,987	2,987
	1982	3,771	3,771	3,771	3,495	3,495	3,495
	1983	4,065	4,065	4,065	3,772	3,772	3,772
	1984	3,853	3,853	3,853	3,844	3,844	3,844
	1985	3,958	3,958	3,958	4,017	4,017	4,017
	1986	4,054	4,054	4,054	4,201	4,201	4,201
	1987	3,974	3,974	3,974	4,241	4,241	4,241
I _f	1980	2,783	2,783	2,783	2,399	2,399	2,399
10 000 000 kWh (2500 kW, 4000 h)	1981	3,346	3,346	3,346	2,987	2,987	2,987
	1982	3,764	3,764	3,764	3,217	3,217	3,217
	1983	4,056	4,056	4,056	3,461	3,461	3,461
	1984	3,844	3,844	3,844	3,532	3,532	3,532
	1985	3,949	3,949	3,949	3,692	3,692	3,692
	1986	4,035	4,035	4,035	3,859	3,859	3,859
	1987	3,954	3,954	3,954	3,891	3,891	3,891
I _g	1980	-	-	-	2,076	2,076	2,076
24 000 000 kWh (4000 kW, 6000 h)	1981	-	-	-	2,671	2,671	2,671
	1982	-	-	-	2,841	2,841	2,841
	1983	-	-	-	3,053	3,053	3,053
	1984	-	-	-	3,124	3,124	3,124
	1985	-	-	-	3,265	3,265	3,265
	1986	3,634	3,634	3,634	3,395	3,395	3,395
	1987	3,544	3,544	3,544	3,403	3,403	3,403

UNITED KINGDOM

P/kWh

		Birmingham			Leeds		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	-	-	-	-	-	-
	1981	5,253	5,253	5,253	6,557	6,557	6,557
30 000 kWh (30 kW, 1000 h)	1982	5,855	5,855	5,855	5,249	5,249	5,249
	1983	5,461	5,461	5,461	5,640	5,640	5,640
	1984	5,461	5,461	5,461	5,566	5,566	5,566
	1985	5,566	5,566	5,566	5,671	5,671	5,671
	1986	5,832	5,832	5,832	5,858	5,858	5,858
	1987	5,845	5,845	5,845	5,959	5,959	5,959
I _b	1980	4,360	4,360	4,360	4,133	4,133	4,133
	1981	5,303	5,303	5,303	4,975	4,975	4,975
50 000 kWh (50 kW, 1000 h)	1982	5,854	5,854	5,854	5,818	5,818	5,818
	1983	6,355	6,355	6,355	6,350	6,350	6,350
	1984	5,345	5,345	5,345	6,312	6,312	6,312
	1985	5,448	5,448	5,448	6,422	6,422	6,422
	1986	5,707	5,707	5,707	6,677	6,677	6,677
	1987	5,715	5,715	5,715	6,850	6,850	6,850
I _c	1980	3,629	3,629	3,629	3,451	3,451	3,451
	1981	4,434	4,434	4,434	4,196	4,196	4,196
160 000 kWh (100 kW, 1600 h)	1982	5,108	5,108	5,108	4,924	4,924	4,924
	1983	5,627	5,627	5,627	5,319	5,319	5,319
	1984	5,476	5,476	5,476	5,247	5,247	5,247
	1985	5,586	5,586	5,586	5,357	5,357	5,357
	1986	5,768	5,768	5,768	5,611	5,611	5,611
	1987	5,655	5,655	5,655	5,675	5,675	5,675
I _d	1980	2,800	2,800	2,800	2,863	2,863	2,863
	1981	3,514	3,514	3,514	3,482	3,482	3,482
1 250 000 kWh (500 kW, 2500 h)	1982	4,047	4,047	4,047	4,034	4,034	4,034
	1983	4,360	4,360	4,360	4,341	4,341	4,341
	1984	4,303	4,303	4,303	4,231	4,231	4,231
	1985	4,408	4,408	4,408	4,336	4,336	4,336
	1986	4,563	4,563	4,563	4,521	4,521	4,521
	1987	4,452	4,452	4,452	4,532	4,532	4,532
I _e	1980	2,447	2,447	2,447	2,578	2,578	2,578
	1981	3,151	3,151	3,151	3,135	3,135	3,135
2 000 000 kWh (500 kW, 4000 h)	1982	3,626	3,626	3,626	3,633	3,633	3,633
	1983	3,870	3,870	3,870	3,888	3,888	3,888
	1984	3,817	3,817	3,817	3,784	3,784	3,784
	1985	3,922	3,922	3,922	3,889	3,889	3,889
	1986	4,062	4,062	4,062	4,044	4,044	4,044
	1987	3,940	3,940	3,940	4,035	4,035	4,035
I _f	1980	2,399	2,399	2,399	2,562	2,562	2,562
	1981	3,122	3,122	3,122	3,116	3,116	3,116
10 000 000 kWh (2500 kW, 4000 h)	1982	3,592	3,592	3,592	3,614	3,614	3,614
	1983	3,837	3,837	3,837	3,864	3,864	3,864
	1984	3,783	3,783	3,783	3,760	3,760	3,760
	1985	3,888	3,888	3,888	3,865	3,865	3,865
	1986	4,038	4,038	4,038	4,019	4,019	4,019
	1987	3,916	3,916	3,916	4,009	4,009	4,009
I _g	1980	-	-	-	2,357	2,357	2,357
	1981	-	-	-	2,856	2,856	2,856
24 000 000 kWh (4000 kW, 6000 h)	1982	3,191	3,191	3,191	3,311	3,311	3,311
	1983	3,443	3,443	3,443	3,526	3,526	3,526
	1984	3,285	2,285	3,285	3,285	3,285	3,285
	1985	3,490	3,490	3,490	3,536	3,536	3,536
	1986	3,675	3,675	3,675	3,536	3,536	3,536
	1987	3,539	3,539	3,539	3,637	3,637	3,637

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

DANMARK

6re/kWh

January/Janvier	København			Nord Sjælland		
	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
	Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
a 600 kWh	1980 66,0	54,9	46,9	92,31	76,77	68,77
	1981 87,6	71,8	59,3	129,24	105,93	93,43
	1982 88,8	72,8	60,3	154,74	126,83	114,33
	1983 109,6	89,8	74,3	149,73	122,73	107,23
	1984 98,8	81,0	65,5	154,82	126,90	111,40
	1985 111,1	91,0	75,5	158,97	130,30	114,80
	1986 105,5	86,5	67,5	164,82	135,10	116,10
b 1 200 kWh	1987 109,5	89,7	57,2	172,02	141,00	108,50
	1980 58,8	48,9	40,9	67,26	55,93	47,93
	1981 80,3	65,8	53,3	96,71	79,27	66,77
	1982 81,5	66,8	54,3	116,10	95,17	82,67
	1983 99,7	81,7	66,2	110,10	91,07	75,57
	1984 89,0	73,0	57,5	109,07	89,40	73,90
	1985 101,1	82,9	67,4	113,22	92,80	77,30
c 3 500 kWh (1 300 kWh night/nuit)	1986 95,5	78,3	59,3	116,02	95,10	76,10
	1987 99,5	81,6	49,1	123,22	101,00	68,50
	1980 49,9	41,5	33,5	50,80	42,24	34,24
	1981 69,9	57,3	44,8	75,33	61,74	49,24
	1982 70,9	58,1	45,6	90,72	74,36	61,86
	1983 88,7	72,7	57,2	85,71	70,26	54,76
	1984 78,7	64,5	49,0	79,01	64,76	49,26
d 7 500 kWh (2 500 kWh night/nuit)	1985 90,0	73,7	58,2	83,16	68,16	52,66
	1986 84,6	69,3	50,3	83,95	68,81	49,81
	1987 89,2	73,1	40,6	91,15	74,71	42,21
	1980 47,7	39,7	31,7	-	-	-
	1981 67,6	55,4	42,9	-	-	-
	1982 68,8	56,4	43,9	-	-	-
	1983 84,7	69,4	53,9	78,65	64,47	48,97
e 20 000 kWh (15000 kWh night/nuit)	1984 74,6	61,1	45,6	70,64	57,90	42,40
	1985 85,9	70,4	54,9	74,79	61,30	45,80
	1986 80,5	66,0	47,0	75,03	61,50	42,50
	1987 85,1	69,7	37,2	82,23	67,40	34,90
	1980 38,0	31,6	23,6	43,71	36,35	28,35
	1981 56,0	45,9	33,4	66,12	54,20	41,70
	1982 57,1	46,8	34,3	79,79	65,40	52,90
	1983 69,7	57,1	41,6	74,78	61,30	45,80
	1984 60,4	49,5	34,0	66,06	54,15	38,65
	1985 70,9	58,1	42,6	61,71	50,58	35,08
	1986 65,6	53,8	34,8	60,51	49,60	30,60
	1987 66,8	54,7	25,7	64,48	52,85	23,85

ELECTRICITY PRICES FOR INDUSTRY

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS

DANEMARK

Øre/kWh

		København			Nord Sjælland		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	51,8	43,1	35,1	43,21	35,93	27,93
	1981	73,2	60,0	47,5	65,47	53,67	41,17
30 000 kWh (30 kW, 1000 h)	1982	74,5	61,0	48,5	79,02	64,77	52,27
	1983	90,1	73,9	58,4	74,01	60,67	45,17
	1984	79,4	65,1	49,6	65,15	53,40	37,90
	1985	91,5	75,0	59,5	69,30	56,80	41,30
	1986	86,0	70,5	51,5	69,17	56,70	37,70
	1987	89,9	73,7	41,2	76,37	62,60	30,10
I _b	1980	51,7	43,0	35,0	42,81	35,60	27,60
	1981	73,1	59,9	47,4	64,95	53,24	40,74
50 000 kWh (50 kW, 1000 h)	1982	74,4	60,9	48,4	78,40	64,26	51,76
	1983	89,9	73,7	58,2	73,39	60,16	44,66
	1984	79,2	64,9	49,4	64,42	52,80	37,30
	1985	91,4	74,9	59,4	68,56	56,20	40,70
	1986	85,9	70,4	51,4	68,39	56,06	37,06
	1987	89,8	73,6	41,1	75,59	61,96	29,46
I _c	1980	51,7	43,0	35,0	42,40	35,26	27,26
	1981	73,1	59,9	47,4	64,42	52,80	40,30
160 000 kWh (100 kW, 1600 h)	1982	74,3	60,9	48,4	77,76	63,74	51,24
	1983	89,9	73,7	58,2	72,76	59,64	44,14
	1984	79,2	64,9	49,4	63,66	52,18	36,68
	1985	91,4	74,9	59,4	67,81	55,58	40,08
	1986	85,8	70,3	51,3	67,59	55,40	36,40
	1987	89,8	73,6	41,1	74,79	61,30	28,80
I _d	1980	51,6	42,9	34,9	40,57	33,74	25,74
	1981	72,8	59,7	47,2	61,51	50,42	37,92
1 250 000 kWh (500 kW, 2500 h)	1982	74,1	60,7	48,2	72,05	59,06	46,56
	1983	89,5	73,3	57,8	69,61	57,06	41,56
	1984	79,0	64,8	49,3	63,01	51,65	36,15
	1985	90,9	74,5	59,0	65,12	53,38	37,88
	1986	85,3	69,9	50,9	64,36	52,75	33,75
	1987	89,3	73,2	40,7	72,44	59,38	26,88
I _e	1980	48,6	40,4	32,4	37,04	30,80	22,80
	1981	68,1	55,8	43,3	56,15	46,02	33,52
2 000 000 kWh (500 kW, 4000 h)	1982	69,3	56,8	44,3	66,96	54,89	42,39
	1983	83,7	68,6	53,1	64,52	52,89	37,39
	1984	72,9	59,8	44,3	55,28	45,31	29,81
	1985	85,1	69,7	54,2	57,93	47,48	31,98
	1986	79,8	65,4	46,4	59,23	48,55	29,55
	1987	83,9	68,8	36,3	65,56	53,74	21,24
I _f	1980	43,7	36,3	28,3	36,63	30,46	22,46
	1981	62,7	51,4	38,9	55,72	45,67	33,17
10 000 000 kWh (2500 kW, 4000 h)	1982	64,1	52,5	40,0	65,71	53,86	41,36
	1983	78,5	64,3	48,8	64,12	52,56	37,06
	1984	68,2	55,9	40,4	54,55	44,71	29,21
	1985	79,8	65,4	49,9	57,07	46,78	31,28
	1986	74,3	60,9	41,9	58,34	47,82	28,82
	1987	82,5	67,6	32,1	64,67	53,01	20,51
I _g	1980	42,2	35,1	27,1	-	-	-
	1981	61,1	50,1	37,6	-	-	-
24 000 000 kWh (4000 kW, 6000 h)	1982	62,5	51,2	38,7	-	-	-
	1983	76,2	62,4	40,9	-	-	-
	1984	65,9	54,0	38,5	-	-	-
	1985	77,5	63,5	48,0	-	-	-
	1986	72,0	59,0	40,0	55,45	45,45	26,45
	1987	76,4	62,6	30,1	60,72	49,77	17,27

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

ELLAS

DRA/kWh

ESPAÑA

PTA/kWh

January/Janvier	600 kWh	Athinai			Madrid		
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
D _a	1980	4,82	4,46	4,46	5,61	5,61	5,44
	1981	5,70	5,28	5,28	.	.	.
	1982	6,17	5,61	5,61	9,90	9,90	9,38
	1983	6,95	6,31	6,31	11,23	11,23	10,63
	1984	7,02	6,39	6,31	12,81	12,81	11,61
	1985	7,87	7,15	7,07	13,80	13,80	12,65
	1986	11,51	10,46	10,34	15,38	13,73	13,73
	1987	13,23	11,21	11,21	16,10	14,38	14,38
D _b	1980	4,82	4,46	4,46	5,61	5,61	5,44
	1981	5,70	5,28	5,28	.	.	.
	1982	6,17	5,61	5,61	9,90	9,90	9,38
	1983	6,95	6,31	6,31	11,23	11,23	10,63
	1984	8,10	7,37	7,28	12,81	12,81	11,61
	1985	9,07	8,25	8,15	13,80	13,80	12,65
	1986	11,09	10,08	9,96	15,38	13,73	13,73
	1987	12,73	10,79	10,79	16,10	14,38	14,38
D _c	1980	4,13	3,82	3,82	.	.	.
	1981	4,76	4,41	4,41	.	.	.
	1982	5,15	4,68	4,68	.	.	.
	1983	5,79	5,26	5,26	.	.	.
	1984	6,96	6,33	6,25	10,40	10,40	9,38
	1985	7,88	7,16	7,08	10,95	10,95	9,97
	1986	9,55	8,68	8,58	12,08	10,79	10,79
	1987	10,96	9,29	9,29	12,70	11,34	11,34
D _d	1980	4,32	4,00	4,00	5,90	5,90	5,76
	1981	5,01	4,64	4,64	.	.	.
	1982	5,41	4,92	4,92	7,37	7,37	6,88
	(2 500 kWh night/nuit)	6,09	5,54	5,54	8,37	8,37	7,81
	1983	6,41	6,74	6,66	9,30	9,30	8,36
	1984	8,36	7,60	7,51	9,80	9,80	8,89
	1985	9,97	9,07	8,96	10,72	9,57	9,57
	1987	11,47	9,72	9,72	11,33	10,12	10,12
D _e	1980	3,14	2,91	2,91	.	.	.
	1981	3,51	3,25	3,25	.	.	.
	1982	3,80	3,45	3,45	.	.	.
	1983	4,27	3,88	3,88	.	.	.
	1984	5,42	4,93	4,87	7,92	7,92	7,08
	1985	6,20	5,64	5,57	8,01	8,01	7,21
	1986	7,36	6,69	6,61	8,71	7,78	7,78
	1987	8,46	7,17	7,17	9,20	8,21	8,21

		ELLAS			ESPAÑA			PTA/kWh	
		DRA/kWh			Madrid				
		Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes	Price incl. all taxes Prix TTC	Price excl. VAT Prix hors TVA	Price excl. all taxes Prix hors taxes		
I _a	1980	5,01	5,01	5,01	4,97	4,97	4,66		
30 000 kWh (30 kW, 1000 h)	1981	5,32	5,32	5,32	.	.	.		
	1982	8,41	8,41	8,41	.	.	.		
	1983	9,46	9,46	9,46	.	.	.		
	1984	9,38	9,38	9,38	.	.	.		
	1985	10,88	10,88	10,88	12,50	12,50	11,43		
	1986	12,63	12,63	12,63	13,85	12,37	12,37		
	1987	17,14	14,53	14,53	14,95	13,35	13,35		
I _b	1980	4,71	4,71	4,71	3,73	3,73	3,49		
50 000 kWh (50 kW, 1000 h)	1981	4,97	4,97	4,97	.	.	.		
	1982	8,31	8,31	8,31	.	.	.		
	1983	9,34	9,34	9,34	.	.	.		
	1984	9,35	9,35	9,35	.	.	.		
	1985	10,84	10,84	10,84	11,00	11,00	10,02		
	1986	12,59	12,59	12,59	12,91	11,53	11,53		
	1987	17,08	14,48	14,48	14,95	13,35	13,35		
I _c	1980	4,03	4,03	4,03	3,09	3,09	2,89		
160 000 kWh (100 kW, 1600 h)	1981	4,14	4,14	4,14	.	.	.		
	1982	5,88	5,88	5,88	6,17	6,17	5,56		
	1983	6,61	6,61	6,61	7,10	7,10	6,40		
	1984	8,64	8,64	8,64	9,21	9,21	8,27		
	1985	10,02	10,02	10,02	10,35	10,35	9,41		
	1986	11,63	11,63	11,63	11,80	10,54	10,54		
	1987	15,78	13,38	13,38	13,16	11,75	11,75		
I _d	1980	3,45	3,45	3,45	2,95	2,95	2,76		
1 250 000 kWh (500 kW, 2500 h)	1981	3,48	3,48	3,48	.	.	.		
	1982	4,96	4,96	4,96	5,87	5,87	5,28		
	1983	5,59	5,59	5,59	6,72	6,72	6,04		
	1984	7,20	7,20	7,20	8,50	8,50	7,62		
	1985	8,32	8,32	8,32	9,59	9,59	8,69		
	1986	9,95	9,95	9,95	10,93	9,76	9,76		
	1987	13,09	11,10	11,10	12,22	10,91	10,91		
I _e	1980	3,09	3,09	3,09	2,74	2,74	2,57		
2 000 000 kWh (500 kW, 4000 h)	1981	3,07	3,07	3,07	.	.	.		
	1982	4,40	4,40	4,40	5,56	5,56	4,99		
	1983	4,95	4,95	4,95	6,33	6,33	5,68		
	1984	6,69	6,69	6,69	7,70	7,70	6,87		
	1985	7,75	7,75	7,75	8,65	8,65	7,81		
	1986	9,00	9,00	9,00	9,53	8,51	8,51		
	1987	12,20	10,34	10,34	10,70	9,55	9,55		
I _f	1980	2,95	2,95	2,95	2,74	2,74	2,57		
10 000 000 kWh (2500 kW, 4000 h)	1981	2,92	2,92	2,92	.	.	.		
	1982	4,20	4,20	4,20	5,08	5,08	4,54		
	1983	4,73	4,73	4,73	5,78	5,78	5,16		
	1984	6,69	6,69	6,69	7,33	7,33	6,53		
	1985	7,75	7,75	7,75	8,23	8,23	7,41		
	1986	9,00	9,00	9,00	9,03	8,06	8,06		
	1987	12,20	10,34	10,34	10,07	8,99	8,99		
I _g	1980	2,94	2,94	2,94	2,59	2,59	2,43		
24 000 000 kWh (4000 kW, 6000 h)	1981	2,88	2,88	2,88	.	.	.		
	1982	4,14	4,14	4,14	4,80	4,80	4,28		
	1983	4,66	4,66	4,66	5,45	5,45	4,85		
	1984	5,70	5,70	5,70	6,66	6,66	5,91		
	1985	6,57	6,57	6,57	7,46	7,46	6,69		
	1986	7,62	7,62	7,62	8,23	7,35	7,35		
	1987	10,33	8,76	8,76	9,18	8,20	8,20		

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

PORTUGAL

ESC/kWh

January/Janvier	Lisboa					
	Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
	Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
d_a 600 kWh	1980	2,943	2,943	2,893		
	1981	4,340	4,340	4,290		
	1982	6,200	6,200	6,150		
	1983	8,400	8,400	8,250		
	1984	9,050	9,050	8,900		
	1985	12,754	12,754	12,604		
	1986	14,537	13,460	13,310		
	1987	15,850	14,676	14,526		
d_b 1 200 kWh	1980	3,289	3,289	3,264		
	1981	4,835	4,835	4,810		
	1982	6,875	6,875	6,850		
	1983	9,205	9,205	9,130		
	1984	9,955	9,955	9,780		
	1985	14,288	14,288	14,213		
	1986	16,292	15,085	15,010		
	1987	17,764	16,448	16,373		
d_c (1 300 kWh night/nuit)	1980	2,886	2,886	2,877		
	1981	4,327	4,327	4,318		
	1982	6,139	6,139	6,130		
	1983	8,135	8,135	8,109		
	1984	8,785	8,785	8,759		
	1985	12,704	12,704	12,678		
	1986	14,494	13,420	13,394		
	1987	15,804	14,633	14,607		
d_d (2 500 kWh night/nuit)	1980	2,484	2,484	2,480		
	1981	3,760	3,760	3,756		
	1982	5,382	5,382	5,378		
	1983	7,172	7,172	7,160		
	1984	7,822	7,822	7,810		
	1985	11,155	11,155	11,143		
	1986	12,729	12,786	11,774		
	1987	13,883	12,855	12,843		
d_e (15000 kWh night/nuit)	1980	1,992	1,992	1,990		
	1981	3,191	3,191	3,189		
	1982	4,550	4,550	4,548		
	1983	6,038	6,038	6,033		
	1984	6,688	6,688	6,683		
	1985	9,606	9,606	9,601		
	1986	10,959	10,147	10,142		
	1987	11,956	11,070	11,065		

PORTUGAL

ESC/kWh

		Lisboa					
		Price incl. all taxes	Price excl. VAT	Price excl. all taxes	Price incl. all taxes	Price excl. VAT	Price excl. all taxes
		Prix TTC	Prix hors TVA	Prix hors taxes	Prix TTC	Prix hors TVA	Prix hors taxes
I _a	1980	3,123	3,123	3,118			
	1981	5,094	5,094	5,089			
30 000 kWh (30 kW, 1000 h)	1982	7,272	7,272	7,267			
	1983	9,732	9,732	9,717			
	1984	10,382	10,382	10,367			
	1985	15,121	15,121	15,106			
	1986	18,622	17,243	17,228			
	1987	20,300	18,796	18,781			
I _b	1980	2,953	2,953	2,950			
	1981	4,345	4,345	4,342			
50 000 kWh (50 kW, 1000 h)	1982	6,113	6,113	6,110			
	1983	8,205	8,205	8,196			
	1984	8,755	8,755	8,746			
	1985	13,739	13,739	13,730			
	1986	16,923	15,670	15,661			
	1987	18,452	17,085	17,076			
I _c	1980	2,456	2,456	2,455			
	1981	3,716	3,716	3,715			
160 000 kWh (100 kW, 1600 h)	1982	5,292	5,292	5,291			
	1983	7,113	7,113	7,110			
	1984	7,663	7,663	7,660			
	1985	11,567	11,567	11,564			
	1986	14,251	13,195	13,192			
	1987	15,540	14,388	14,385			
I _d	1980	2,140	2,140	2,140			
	1981	3,310	3,310	3,310			
1 250 000 kWh (500 kW, 2500 h)	1982	4,754	4,754	4,754			
	1983	6,396	6,396	6,396			
	1984	6,946	6,946	6,946			
	1985	10,169	10,169	10,169			
	1986	12,529	11,601	11,601			
	1987	13,663	12,651	12,651			
I _e	1980	1,913	1,913	1,913			
	1981	3,040	3,040	3,040			
2 000 000 kWh (500 kW, 4000 h)	1982	4,398	4,398	4,398			
	1983	5,921	5,921	5,921			
	1984	6,320	6,320	6,320			
	1985	9,246	9,246	9,246			
	1986	11,393	10,549	10,549			
	1987	12,424	11,504	11,504			
I _f	1980	1,913	1,913	1,913			
	1981	3,040	3,040	3,040			
10 000 000 kWh (2500 kW, 4000 h)	1982	4,398	4,398	4,398			
	1983	5,921	5,921	5,921			
	1984	6,320	6,320	6,320			
	1985	9,246	9,246	9,246			
	1986	11,393	10,549	10,549			
	1987	12,424	11,504	11,504			
I _g	1980	1,716	1,716	1,716			
	1981	2,837	2,837	2,837			
24 000 000 kWh (4000 kW, 6000 h)	1982	4,123	4,123	4,123			
	1983	5,554	5,554	5,554			
	1984	5,566	5,566	5,566			
	1985	8,561	8,561	8,561			
	1986	10,543	9,762	9,762			
	1987	11,498	10,646	10,646			

CONVERSION TABLE FOR THE
PURCHASING POWER STANDARD (PPS)

TABLE DE CONVERSION DU
STANDARD DE POUVOIR D'ACHAT (SPA)

	BR DEUTSCHL.	FRANCE	ITALIA	NEDER- LAND	BELGIË BELGIQUE	LUXEM- BOURG	UNITED KINGDOM	IRELAND	DANMARK	ELLAS	ESPAÑA	PORTUGAL
	DM	FF	LIT	HFL	BFR	LFR	UK£	IR£	DKR	DRA	PTA	ESC
1980 (1)	2,66	5,83	859	2,68	42,4	38,3	0,513	0,538	8,39	38,5	69,8	31,1
1981	2,50	5,87	917	2,55	40,1	37,3	0,515	0,569	8,32	41,6	70,4	33,4
1982	2,36	5,99	965	2,45	38,8	37,0	0,502	0,596	8,33	47,1	72,5	35,3
1983	2,24	6,04	1025	2,30	38,1	36,7	0,486	0,611	8,29	51,6	74,6	40,8
1984	2,15	6,08	1060	2,20	37,6	36,9	0,475	0,610	8,23	58,2	77,6	48,5
1985 (2)	2,07	6,07	1087	2,12	37,3	36,0	0,474	0,604	8,19	64,5	79,6	55,3
1986 (2)	2,02	6,01	1112	2,02	37,0	36,1	0,466	0,601	8,12	72,8	83,9	61,5
1987	1,98	5,97	1133	1,92	36,5	35,7	0,467	0,600	8,19	79,2	85,7	64,8

(1) base year/année de base

(2) provisional/provisoire

CONVERSION TABLE FOR THE
EUROPEAN CURRENCY UNIT (ECU)

TABLE DE CONVERSION DE
L'UNITE MONETAIRE EUROPEENNE (ECU)

	BR DEUTSCHL.	FRANCE	ITALIA	NEDER- LAND	BELGIË BELGIQUE	LUXEM- BOURG	UNITED KINGDOM	IRELAND	DANMARK	ELLAS	ESPAÑA	PORTUGAL
	DM	FF	LIT	HFL	BFR	LFR	UK£	IR£	DKR	DRA	PTA	ESC
1980	2,4885	5,8302	1161,3	2,7474	40,4260	40,4260	0,6373	0,6734	7,7713	55,5901	95,4266	71,9021
1981	2,5806	2,9657	1225,8	2,8047	41,4920	41,4920	0,5346	0,6919	7,9395	60,8793	103,5850	69,0901
1982	2,4442	6,2102	1308,9	2,6790	41,6068	41,6068	0,5653	0,6922	7,9886	62,6924	104,8940	70,8809
1983	2,2967	6,5095	1320,9	2,5287	45,0461	45,0461	0,6103	0,6909	8,0884	77,5595	121,9240	89,7922
1984	2,2580	6,9034	1371,2	2,5379	46,0675	46,0675	0,5706	0,7288	8,1769	82,3314	128,4850	109,2830
1985	2,2242	6,8083	1367,8	2,5126	44,5188	44,5188	0,6220	0,7140	7,9483	90,6900	122,9570	120,8140
1986	2,1777	6,6816	1484,5	2,4543	44,5101	44,5101	0,6258	0,7154	7,9826	132,4240	136,2850	140,5430
1987	2,0645	6,8813	1462,9	2,3287	42,8703	42,8703	0,7379	0,7721	7,8297	149,8450	143,9810	158,4730

GDP PRICE INDICES

INDICES DE PRIX DU PIB

1980 = 100

	BR DEUTSCHL.	FRANCE	ITALIA	NEDER- LAND	BELGIË BELGIQUE	LUXEM- BOURG	UNITED KINGDOM	IRELAND	DANMARK	ELLAS	ESPAÑA	PORTUGAL
	DM	FF	LIT	HFL	BFR	LFR	UK£	IR£	DKR	DRA	PTA	ESC
1981	104,0	111,8	118,5	105,5	104,9	108,1	111,5	117,4	110,1	120,0	112,0	119,0 (1)
1982	108,6	125,9	137,7	111,9	112,2	119,6	120,1	135,8	121,7	149,9	127,4	139,2 (1)
1983	112,1	137,9	158,8	114,0	119,4	128,8	126,2	151,2	131,6	178,6	142,2	174,7 (1)
1984	114,3	147,9	175,0	116,4	125,7	136,9	131,3	160,6	139,1	214,5	157,7	221,2 (1)
1985 (1)	116,8	156,6	190,5	119,2	132,1	141,6	139,0	168,7	146,7	252,4	171,5	267,3 (1)
1986 (1)	120,4	163,8	205,8	119,4	138,5	150,0	144,2	177,4	153,8	300,4	190,9	313,9
1987	122,9	169,2	218,2	118,3	142,3	154,3	150,7	184,4	161,4	340,3	203,0	344,7

(1) provisional/provisoire

ELECTRICITY PRICES FOR HOUSEHOLDS

PRIX DE L'ELECTRICITE POUR USAGES DOMESTIQUES

Deflated PPS/100 kWh

SPA déflaté/100 kWh

EUR 12

	January/janvier	DÜSSEL-DORF	PARIS	MILANO	ROTTER-DAM	BRU-XELLES	LUXEM-BOURG	LONDON	DUBLIN	KOBEN-HAVN	ATHINAI	MADRID	LISBOA
D_a 600 kWh	1980	13,15	13,53	5,87	11,89	15,00	12,22	12,61	9,72	7,87	12,52	8,04	9,46
	1981	13,94	12,61	6,04	12,23	15,51	12,20	15,30	11,32	9,48	12,34	-	11,73
	1982	13,94	12,77	6,56	13,06	15,91	13,45	15,72	12,15	8,70	10,69	11,13	14,32
	1983	14,27	12,71	7,18	13,40	17,22	13,85	16,12	11,49	9,93	10,69	11,31	15,46
	1984	14,90	12,55	6,81	13,09	17,32	15,14	15,05	11,92	8,47	8,50	11,64	13,16
	1985	14,58	11,42	6,89	13,04	15,82	14,92	14,46	12,17	9,03	8,10	11,53	15,34
	1986	15,28	11,26	6,71	12,57	15,62	14,22	14,66	12,26	8,18	9,95	11,54	14,89
	1987	15,40	10,79	5,47	11,36	14,45	13,99	13,95	11,09	8,09	10,10	11,36	14,79
D_b 1 200 kWh	1980	9,75	9,90	6,55	9,82	11,70	9,66	9,71	8,05	7,01	12,52	8,04	10,58
	1981	10,67	9,29	6,95	10,27	12,32	9,69	11,60	9,62	8,69	12,34	-	13,06
	1982	10,74	9,42	7,37	11,17	12,72	9,98	11,93	10,44	7,98	10,69	11,13	15,88
	1983	10,90	9,75	8,34	11,43	13,77	10,30	12,28	9,87	9,03	10,11	11,31	16,94
	1984	11,31	9,74	8,61	11,08	13,70	11,33	11,81	10,21	7,63	9,81	11,64	14,47
	1985	11,10	9,63	8,57	11,08	13,64	11,14	11,32	10,41	8,21	9,33	11,53	17,19
	1986	11,48	9,74	8,29	10,62	13,28	10,62	11,16	10,43	7,40	9,59	11,54	16,69
	1987	11,57	9,33	7,09	9,17	12,30	10,42	10,50	9,32	7,35	9,72	11,36	16,57
D_c (1300 kWh night/nuit)	1980	6,89	7,99	10,87	7,79	8,28	6,81	6,80	6,00	5,95	10,73	-	9,28
	1981	7,91	7,50	11,22	8,41	8,90	6,81	7,95	7,42	7,57	10,30	-	11,69
	1982	8,01	7,71	11,12	9,47	9,27	7,20	8,16	8,09	6,94	8,92	-	14,18
	1983	8,19	8,06	12,64	9,68	10,07	7,24	8,40	7,32	8,03	8,42	-	14,97
	1984	8,47	8,49	15,41	9,31	9,89	7,91	8,07	7,49	6,74	8,43	9,45	12,77
	1985	8,29	8,46	15,07	9,35	9,87	7,80	7,75	7,62	7,31	8,11	9,15	15,28
	1986	8,57	8,37	14,44	8,89	9,33	7,08	7,62	7,53	6,56	8,26	9,07	14,85
	1987	8,64	8,02	11,41	7,25	8,55	6,95	7,07	6,50	6,59	8,37	8,96	14,74
D_d (2500 kWh night/nuit)	1980	-	7,34	10,01	7,32	7,64	5,38	6,29	6,19	5,69	11,22	5,59	7,99
	1981	-	6,91	10,35	7,93	8,30	5,43	7,33	7,28	7,32	10,84	-	10,16
	1982	-	7,13	10,36	8,97	8,66	6,61	7,51	6,92	6,74	9,37	-	12,43
	1983	-	7,46	11,07	8,97	9,40	7,03	7,75	7,17	7,67	8,86	8,43	13,20
	1984	-	7,90	14,39	8,79	9,19	7,76	7,45	7,34	6,39	8,97	8,45	11,37
	1985	-	7,96	14,13	8,84	9,11	7,65	7,04	7,38	6,98	8,60	8,19	13,42
	1986	7,22	7,83	14,52	8,38	8,51	6,93	7,02	7,37	6,24	8,62	8,05	13,04
	1987	7,30	7,50	10,59	6,67	7,77	6,77	6,47	6,35	6,28	8,75	8,00	12,95
D_e (15000 kWh night/nuit)	1980	3,80	5,83		5,82	5,33	3,97	3,88	4,58	4,53	8,16	-	6,41
	1981	4,33	5,48		6,49	5,94	4,01	4,59	5,86	6,06	7,60	-	8,62
	1982	4,54	5,69		7,59	6,31	4,63	4,66	6,37	5,59	6,58	-	10,51
	1983	4,47	5,96		7,81	6,85	4,74	4,74	5,35	6,31	6,21	-	11,11
	1984	4,62	6,31		7,42	6,59	5,24	4,55	5,38	5,18	6,56	7,20	9,72
	1985	4,53	6,31		7,51	6,36	5,16	4,39	5,45	5,76	6,38	6,69	11,56
	1986	4,73	6,28		7,05	5,65	4,70	4,36	5,28	5,08	6,36	6,54	11,23
	1987	4,74	6,02		5,19	5,02	4,60	3,96	5,30	4,93	6,46	6,49	11,15

ELECTRICITY PRICES FOR INDUSTRY (1)

PRIX DE L'ELECTRICITE POUR USAGES INDUSTRIELS (1)

Deflated PPS/100 kWh

SPA déflaté/100 kWh

EUR 12

January/janvier	DÜSSELDORF	PARIS	MILANO	ROTTERDAM	BRUXELLES	LUXEMBOURG	LONDON	DUBLIN	KOBENHAVN	ATHINAI	MADRID	LISBOA	
I _a	1980	6,71	8,55	9,79	8,14	7,44	9,13	9,89	5,14	13,01	7,12	10,04	
	1981	6,32	9,11	9,58	8,50	7,70	12,40	6,50	11,52	-	13,76		
	1982	6,45	9,22	10,27	8,45	8,69	9,34	13,29	5,97	14,57	-	16,80	
30 000 kWh (30 kW, 1000 h)	1983	6,81	10,78	9,76	9,30	9,16	9,76	11,87	6,69	13,76	-	17,91	
	1984	8,59	12,26	9,74	9,33	10,20	9,23	11,72	5,58	11,36	-	15,09	
	1985	8,55	14,17	9,78	9,00	10,05	8,86	11,72	6,09	11,20	10,44	18,19	
	1986	9,25	13,69	9,15	8,87	9,47	8,59	11,14	5,46	10,92	9,28	17,66	
	1987	8,87	10,69	8,25	8,29	9,39	7,71	10,75	5,44	11,09	9,42	17,53	
I _b	1980	6,71	9,08	9,54	8,14	7,36	8,67	9,89	5,13	12,23	5,34	9,50	
	1981	6,32	9,51	9,58	8,50	7,68	9,13	12,40	6,48	10,76	-	11,74	
	1982	6,45	9,57	10,27	8,45	8,67	9,27	13,29	5,96	14,40	-	14,12	
50 000 kWh (50 kW, 1000 h)	1983	6,81	10,78	9,76	9,30	9,14	9,64	11,87	6,67	13,58	-	15,10	
	1984	7,88	10,90	9,74	9,21	10,20	9,10	11,72	5,56	11,32	-	12,73	
	1985	7,76	12,60	9,40	8,96	9,99	8,74	11,72	6,09	11,16	9,19	16,53	
	1986	7,88	11,96	9,15	8,82	9,49	8,47	11,14	5,46	10,89	8,65	16,05	
	1987	7,55	9,25	7,83	8,25	9,39	7,59	10,60	5,44	11,05	9,42	15,94	
I _c	1980	7,48	5,75	8,04	8,04	7,57	5,93	7,36	7,87	5,13	10,47	4,43	7,90
	1981	8,01	5,44	8,51	8,24	7,96	6,16	8,18	10,00	6,48	8,96	-	10,04
	1982	8,08	5,61	8,36	9,42	7,90	6,72	8,62	10,86	5,96	10,19	6,94	12,22
160 000 kWh (100 kW, 1600 h)	1983	7,76	6,14	9,49	8,90	8,71	7,10	8,99	9,73	6,67	9,61	7,15	13,09
	1984	8,06	6,32	9,51	7,88	8,59	7,91	8,45	9,69	5,56	10,46	-	11,14
	1985	7,89	5,16	11,00	7,94	8,16	7,78	8,14	9,68	6,09	10,31	8,65	13,91
	1986	8,36	6,40	10,63	7,40	7,99	7,31	8,19	9,21	5,45	10,06	7,91	13,52
	1987	8,29	6,13	8,00	5,97	7,39	7,24	7,79	8,52	5,44	10,21	8,29	13,42
I _d	1980	5,91	4,78	6,66	6,57	5,73	4,93	6,19	6,13	5,11	8,96	4,23	6,88
	1981	6,33	4,55	7,07	6,83	6,14	5,14	6,80	7,82	6,46	7,53	-	8,94
	1982	6,38	4,68	7,39	8,04	6,18	5,50	7,02	8,58	5,94	8,59	6,60	10,98
1 250 000 kWh (500 kW, 2500 h)	1983	6,13	4,88	8,44	7,51	6,79	5,82	7,23	7,72	6,64	8,13	6,77	11,77
	1984	6,37	5,12	8,39	7,31	6,66	6,48	6,59	7,74	5,55	8,72	7,72	10,10
	1985	6,23	5,16	9,40	7,39	6,57	6,38	6,37	7,64	6,05	8,56	8,01	12,23
	1986	6,69	5,03	9,17	6,87	6,15	5,97	6,26	7,26	5,42	8,60	7,32	11,88
	1987	6,63	4,82	6,62	5,38	5,55	5,92	5,90	6,49	5,41	8,47	7,70	11,80
I _e	1980	5,18	4,13	6,22	5,77	5,05	4,28	5,42	5,30	4,82	8,03	3,93	6,15
	1981	5,61	3,95	6,64	6,06	5,55	4,44	5,85	6,85	6,04	6,65	-	8,21
	1982	5,69	4,02	7,00	7,29	5,55	4,69	6,12	7,58	5,56	7,62	6,25	10,16
2 000 000 kWh (500 kW, 4000 h)	1983	5,47	4,14	8,03	6,76	6,12	4,97	6,28	6,78	6,21	7,20	6,38	10,90
	1984	5,63	4,28	7,95	6,72	5,95	5,55	5,72	6,83	5,12	8,10	7,00	9,19
	1985	5,51	4,23	8,20	6,85	5,86	5,46	5,55	6,72	5,66	7,98	7,23	11,12
	1986	5,95	4,13	7,99	6,29	5,38	5,07	5,48	6,39	5,07	7,78	6,39	10,81
	1987	5,90	3,96	6,13	4,74	4,77	5,03	5,14	5,31	5,08	7,89	6,74	10,72
I _f	1980	4,78	4,07	5,93	5,42	4,62	3,76	5,42	5,29	4,33	7,66	3,93	6,15
	1981	5,19	3,89	6,33	5,70	5,10	3,91	5,85	6,71	5,56	6,32	-	8,21
	1982	5,25	3,96	6,73	6,87	5,15	4,28	6,11	7,43	5,14	7,28	5,71	10,16
10 000 000 kWh (2500 kW, 4000 h)	1983	5,05	4,07	7,14	6,36	5,75	4,56	6,27	6,65	5,82	6,88	5,82	10,90
	1984	5,20	4,23	7,04	6,19	5,55	5,17	5,71	6,70	4,79	8,10	6,66	9,19
	1985	5,09	4,23	7,63	6,34	5,68	5,07	5,54	6,54	5,31	7,98	6,88	11,12
	1986	5,51	4,13	7,37	5,83	5,14	4,42	5,45	6,22	4,72	7,78	6,05	10,81
	1987	5,46	3,97	5,50	4,26	4,54	4,40	5,11	4,96	4,99	7,89	6,34	10,73
I _g	1980	-	3,49	5,34	4,96	3,84	3,99	-	4,81	4,18	7,64	3,71	5,52
	1981	-	3,35	5,70	5,25	4,36	3,21	-	6,17	5,42	6,23	-	7,67
	1982	-	3,39	6,28	6,40	4,44	3,49	-	6,86	5,01	7,17	5,40	9,52
20 000 000 kWh (4000 kW, 6000 h)	1983	-	3,45	6,63	5,46	4,94	3,73	-	6,15	5,65	6,78	5,49	10,22
	1984	-	3,58	6,50	5,27	4,73	4,23	-	6,12	4,63	6,90	6,05	8,09
	1985	-	3,52	5,65	5,38	4,71	4,15	-	5,91	5,16	6,76	6,23	10,30
	1986	4,69	3,47	5,44	5,07	4,44	3,66	4,91	5,62	4,57	6,59	5,52	10,00
	1987	4,65	3,33	4,13	3,62	3,96	3,66	4,58	4,27	4,62	6,69	5,79	9,93

(1) Excluding VAT/Hors TVA

ECU/100 kWh

EUR 12

	January/janvier	DÜSSEL-DORF	PARIS	MILANO	ROTTERDAM	BRUXELLES	LUXEMBOURG	LONDON	DUBLIN	KOBENHAVN	ATHINAI	MADRID	LISBOA
D_a 600 kWh	1980	14,06	13,53	4,34	11,60	15,73	11,58	10,15	7,77	8,49	8,67	5,88	4,09
	1981	14,94	13,77	5,02	12,33	16,63	12,17	16,37	10,34	11,03	9,36	6,28	
	1982	16,47	15,10	5,93	14,62	18,19	14,81	17,14	12,82	11,12	9,84	9,44	8,75
	1983	18,52	15,70	7,42	16,19	19,36	15,16	17,10	13,53	13,55	8,96	9,21	9,35
	1984	20,06	15,68	7,47	16,08	20,04	17,24	17,77	14,13	12,10	8,53	9,97	8,28
	1985	20,36	15,31	8,24	16,58	19,90	18,17	16,58	15,48	13,98	8,68	11,22	10,56
	1986	22,47	16,09	8,00	16,39	20,60	18,36	17,33	16,35	13,22	8,69	11,29	10,34
	1987	24,39	15,47	7,01	15,46	20,34	19,29	14,61	14,25	13,99	8,83	11,18	10,00
D_b 1 200 kWh	1980	10,42	9,90	4,84	9,58	12,27	9,15	7,82	6,43	7,57	8,67	5,88	4,57
	1981	11,44	10,15	5,77	10,35	13,21	9,66	12,41	8,78	10,11	9,36	7,00	
	1982	12,70	11,13	6,66	12,51	14,54	10,98	13,01	11,02	10,20	9,84	9,44	9,70
	1983	14,15	12,04	8,61	13,58	15,47	11,28	13,03	11,62	12,33	8,96	9,21	10,25
	1984	15,23	12,17	9,44	13,62	15,85	12,89	13,94	12,11	10,88	9,84	9,97	9,11
	1985	15,50	12,91	10,26	14,09	17,16	12,80	12,98	13,24	12,72	10,00	11,22	11,83
	1986	16,88	13,92	9,87	13,84	17,52	13,70	13,19	13,91	11,96	8,37	11,29	11,59
	1987	18,33	13,38	9,08	12,49	17,31	14,37	11,00	11,98	12,71	8,50	11,18	11,21
D_c 3 500 kWh (1300 kWh night/nuit)	1980	7,36	7,99	8,04	7,60	8,68	6,46	5,47	4,79	6,42	7,43	.	4,01
	1981	8,48	8,20	9,31	8,48	9,54	6,80	8,51	6,77	8,80	7,82	.	6,26
	1982	9,47	9,11	10,05	10,60	10,60	7,93	8,89	8,54	8,88	8,21	.	8,66
	1983	10,63	9,95	13,05	11,70	11,32	7,93	8,91	8,71	10,97	7,47	.	9,06
	1984	11,41	10,60	16,89	11,44	11,44	9,01	9,53	8,88	9,62	8,45	8,09	8,66
	1985	11,58	11,35	18,03	11,89	12,42	8,96	8,89	9,68	11,32	9,57	8,91	10,52
	1986	12,60	11,96	17,19	11,59	12,31	9,14	9,00	10,04	10,60	7,21	8,86	10,31
	1987	13,68	11,50	14,62	9,86	12,04	9,59	7,40	8,35	11,39	7,31	8,82	9,97
D_d 7 500 kWh (2500 kWh night/nuit)	1980	.	7,34	7,40	7,14	8,01	4,85	5,06	4,95	6,14	7,77	4,09	3,45
	1981	.	7,55	8,59	7,99	8,89	5,16	7,84	6,65	8,51	8,23	.	5,44
	1982	.	8,42	9,36	10,04	9,90	6,92	8,18	8,36	8,61	8,63	7,03	7,59
	1983	.	9,21	11,44	11,08	10,57	7,35	8,22	8,44	10,47	7,85	6,86	7,59
	1984	.	9,87	15,78	10,80	10,64	8,34	8,79	8,71	10,39	9,00	7,24	7,16
	1985	.	10,39	16,91	11,24	11,46	8,78	8,21	9,48	10,81	9,22	7,97	9,23
	1986	10,62	11,19	17,29	10,93	11,23	8,94	8,30	9,83	10,08	7,53	7,87	9,06
	1987	11,56	10,76	13,57	9,09	10,94	9,33	6,78	8,16	10,87	7,65	7,87	8,76
D_e 20 000 kWh (15000 kWh night/nuit)	1980	4,06	5,83		5,68	5,59	3,76	3,12	3,66	4,89	5,65	.	2,77
	1981	4,64	5,99		6,55	6,36	4,00	4,92	5,35	7,05	5,77	.	4,62
	1982	5,36	6,72		8,50	7,21	5,10	5,08	6,72	7,15	6,06	.	6,42
	1983	5,80	7,36		9,44	7,70	5,19	5,03	6,30	8,62	5,51	.	6,72
	1984	6,23	7,88		9,12	7,62	5,97	5,38	6,38	7,39	6,58	6,16	6,12
	1985	6,32	8,46		9,54	8,00	5,93	5,03	6,93	8,92	6,84	6,51	7,95
	1986	6,95	8,98		9,19	7,46	6,07	5,15	7,05	8,22	5,56	6,39	7,80
	1987	7,51	8,63		7,06	7,07	6,34	4,15	5,53	8,53	5,65	6,39	7,54

ELECTRICITY PRICES FOR INDUSTRY (1)

PRIX DE L'ÉLECTRICITÉ POUR USAGES INDUSTRIELS (1)

ECU/100 kWh

EUR 12

	January/janvier	DÜSSEL-DORF	PARIS	MILANO	ROTTER-DAM	BRUXELLES	LUXEMBOURG	LONDON	DUBLIN	KOBENHAVN	ATHINAI	MADRID	LISBOA
I _a	1980		6,71	6,33	9,55	8,53	7,05	-	7,90	5,55	9,01	5,21	4,34
	1981		6,91	7,56	9,66	9,11	7,69	9,16	11,32	7,56	8,74	-	7,37
	1982		7,62	8,33	11,49	9,66	9,57	10,18	14,03	7,64	13,41	-	10,26
30 000 kWh (30 kW, 1000 h)	1983		8,41	11,13	11,80	10,46	10,03	10,35	14,75	9,14	12,20	-	10,84
	1984		10,73	13,45	11,97	10,79	11,61	10,89	13,90	7,96	11,39	-	9,50
	1985		11,47	16,95	12,44	11,32	12,24	10,15	14,89	9,44	12,00	10,17	12,52
	1986		13,23	16,31	11,93	11,71	12,22	10,16	14,86	8,83	9,54	9,08	12,27
	1987		12,72	13,69	11,24	11,66	12,95	8,08	13,81	9,41	9,70	9,27	11,86
I _b	1980		6,71	6,72	9,31	8,53	6,98	6,98	7,90	5,53	8,47	3,91	4,11
	1981		6,91	7,90	9,66	9,11	7,66	9,76	11,32	7,54	8,16	-	6,29
	1982		7,62	8,64	11,49	9,66	9,54	10,10	14,03	7,62	13,26	-	8,62
50 000 kWh (50 kW, 1000 h)	1983		8,41	11,13	11,80	10,46	10,01	10,23	14,75	9,11	12,04	-	9,14
	1984		9,85	11,95	11,97	10,66	11,01	11,75	13,90	7,94	11,36	-	8,01
	1985		10,41	15,08	11,95	11,28	12,17	10,02	14,89	9,42	11,95	8,95	11,37
	1986		11,26	14,25	11,93	11,64	12,24	10,01	14,86	8,82	9,51	8,46	11,15
	1987		10,83	11,86	10,67	11,62	12,95	7,95	13,63	9,40	9,66	9,27	10,78
I _c	1980	8,00	5,75	5,95	7,84	7,94	5,62	5,93	6,29	5,53	7,25	3,24	3,42
	1981	8,59	5,94	7,07	8,31	8,53	6,15	8,76	9,13	7,54	6,80	-	5,58
	1982	9,55	6,64	7,55	10,54	9,04	7,40	9,40	11,47	7,62	9,38	5,88	7,47
160 000 kWh (100 kW, 1600 h)	1983	10,08	7,59	9,80	10,76	9,79	7,77	9,54	11,95	9,11	8,52	5,82	7,97
	1984	10,85	7,90	10,43	9,69	10,05	9,01	9,98	11,49	7,94	10,49	7,17	5,94
	1985	11,02	8,40	13,16	10,09	10,27	9,48	9,33	12,31	9,42	11,05	8,42	9,41
	1986	12,29	9,15	12,65	9,65	10,54	9,44	9,68	12,29	8,81	8,78	7,73	9,68
	1987	13,13	8,79	10,24	8,13	10,40	9,98	8,16	10,94	9,40	8,93	8,16	9,08
I _d	1980	6,32	4,78	4,93	6,41	6,01	4,68	4,99	4,90	5,52	6,21	3,09	2,98
	1981	6,79	4,97	5,87	6,88	6,58	5,13	7,28	7,14	7,52	5,72	-	4,79
	1982	7,54	5,55	6,67	9,00	7,07	6,06	7,65	9,06	7,60	7,91	5,60	6,71
1 250 000 kWh (500 kW, 2500 h)	1983	7,96	6,03	8,72	9,08	7,64	6,37	7,67	9,32	9,06	7,21	5,51	7,16
	1984	8,57	6,39	9,20	8,98	7,71	7,38	7,78	9,18	7,92	8,75	6,62	5,41
	1985	8,70	6,92	11,25	9,40	8,27	7,77	7,31	9,71	9,37	9,17	7,80	8,27
	1986	9,84	7,19	10,92	8,95	8,11	7,71	7,40	9,69	8,76	7,51	7,16	8,51
	1987	10,51	6,91	8,49	7,32	7,81	8,16	6,18	8,34	9,35	7,41	7,58	7,98
I _e	1980	5,53	4,13	4,60	5,63	5,29	4,06	4,37	4,24	5,20	5,56	2,87	2,66
	1981	6,02	4,31	5,52	6,11	5,95	4,43	6,26	6,25	7,03	5,04	-	4,40
	1982	6,72	4,75	6,33	8,16	6,35	5,17	6,67	8,00	7,11	7,02	5,30	6,20
2 000 000 kWh (500 kW, 4000 h)	1983	7,10	5,11	8,29	8,16	6,88	5,44	6,66	8,13	8,48	6,38	5,19	6,63
	1984	7,59	5,35	8,71	8,26	6,88	6,32	6,75	8,10	7,31	8,13	5,99	4,92
	1985	7,70	5,67	9,81	8,70	7,37	6,65	6,36	8,54	8,77	8,55	7,03	7,52
	1986	8,75	5,91	9,51	8,20	7,10	6,54	6,48	8,52	8,19	6,80	6,24	7,74
	1987	9,34	5,68	7,85	6,45	6,72	6,93	5,39	6,83	8,79	6,90	6,63	7,26
I _f	1980	5,11	4,07	4,39	5,28	4,85	3,56	4,37	4,23	4,67	5,31	2,87	2,66
	1981	5,56	4,25	5,26	5,75	5,47	3,90	6,26	6,13	6,47	4,80	-	4,40
	1982	6,20	4,67	6,08	7,69	5,89	4,71	6,66	7,84	6,57	6,70	4,84	6,20
10 000 000 kWh (2500 kW, 4000 h)	1983	6,55	5,02	7,37	7,68	6,46	4,99	6,65	7,96	7,95	6,10	4,74	6,63
	1984	7,00	5,29	7,72	7,61	6,43	5,88	6,74	7,94	6,84	8,13	5,70	4,92
	1985	7,10	5,67	9,13	8,06	6,90	6,18	6,35	8,31	8,23	8,55	6,69	7,52
	1986	8,10	5,91	8,78	7,59	6,78	5,71	6,45	8,29	7,63	6,80	5,91	7,74
	1987	6,65	5,68	7,04	5,80	6,39	6,06	5,36	6,37	8,63	6,90	6,24	7,26
I _g	1980	.	3,49	3,95	4,83	4,03	3,78	-	3,85	4,52	5,29	2,71	2,39
	1981	.	3,66	4,73	5,29	4,68	3,21	.	5,64	6,31	4,73	-	4,11
	1982	.	4,00	5,67	7,16	5,07	3,85	.	7,24	6,41	6,60	4,58	5,82
20 000 000 kWh (4000 kW, 6000 h)	1983	.	4,26	6,85	6,59	5,55	4,08	.	7,24	7,71	6,01	4,47	6,22
	1984	.	4,47	7,12	6,48	5,47	4,82	.	7,26	6,60	6,92	5,18	4,33
	1985	.	4,71	6,75	6,85	5,93	5,05	.	7,51	7,99	7,24	6,07	6,96
	1986	6,89	4,96	6,48	6,61	5,86	4,72	5,81	7,49	7,39	5,75	5,39	7,16
	1987	7,36	4,77	5,29	4,93	5,57	5,04	4,80	5,49	8,00	5,85	5,70	6,72

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