

COMMISSION OF THE EUROPEAN COMMUNITIES

NOV. 13 1978

COM (78) 402 FINAL

Brussels, 12 September 1978

THE COMMUNITY'S ENERGY SUPPLIES

FIRST HALF OF 1977 (ESTIMATES), SECOND HALF OF 1977 (ESTIMATES),

FIRST HALF OF 1978 (FORECASTS).

COM (78) 402 FINAL

SUMMARY

1. The attached report is the summary of the information obtained under Regulation (EEC) No 1729/76, adopted by the Council on 21 June 1976.
2. This document gives a brief account of the experience gained when the Regulation was implemented for the third and fourth time (September 1977 and March 1978). Late receipt of replies from some Member States explains why separate reports were not issued for each of these occasions.
3. The report provides a summary of the information from Member States. It shows that during 1977 the Community's inland consumption of energy was estimated to have increased by 0.4% as compared with 1976. For the first half of 1978, the Community's inland consumption of energy is estimated to increase by 1.3% compared with the same period in 1977.

The report indicates that the Community's net imports of energy in the first half of 1978 should be some 2% lower than in the first half of 1977; indeed net oil imports are expected to fall by about 4%. This is due to the very considerable increase in Community oil production which, from just below 26 m toe in the second half of 1977, is expected to rise to about 33 m toe in the first half of 1978. Stocks of energy products held in the Community at the end of June 1978 should represent - on the basis of inland requirements in 1977 - about 105 days' consumption of solid fuels, 88 days' consumption of oil products and 18 days' consumption of natural gas.

4. The information supplied is summarized for each country in the form of tables and diagrams in an Annex to the report.

The Community's energy supplies - first half of 1977 (estimates), second half of 1977 (estimates), first half of 1978 (forecasts)

1. Regulation (EEC) No 1729/76, adopted by the Council on 21 June 1976, requires the Member States to communicate to the Commission twice a year the information concerning their energy supply situations in the form of estimates for the preceding calendar half-year and forecasts for the current half-year. The Regulation also states that the Commission shall transmit to the Member States a summary of the information received.
2. The estimates concerning the energy market in the first half of 1977 and the forecasts for the second half of 1977 should have been sent by 1 September 1977; this information reached the Commission between 16 August 1977 and 21 January 1978. The late receipt of some of the information required led the Director General for Energy to address a letter to the Member States on 6 February 1978 in which he reminded them of their obligations and underlined:
 - the Commission's desire for the time limits for replies laid down in the Regulation to be adhered to whenever the Regulation was implemented in future;
 - the Commission's decision not to publish the summary of information obtained when the Regulation was implemented for the third time (first and second half-years of 1977) until the issue of the report on the fourth implementation of the Regulation, planned for 1 March 1978.
3. The fourth implementation of the Regulation was encouraging as almost all the information was available at the end of March, with the exception of one country for which only part of the information could be supplied within the stipulated time limit while the remainder was not available until early May 1978. This can be assumed to be a passing difficulty which should not last; as a result, a report based on the information obtained within the set time limit will be issued in future on a regular six-month basis and without excessive delay.

4. The tables and graphs which follow provide a definitive summary of the information arising from the third and fourth applications (September 1977 and March 1978) of Regulation (EEC) No 1729/76 (1).

The data received from Member States on both halves of 1977 have been compared, on a Community basis, with the 1976 data. Comparison of the estimates supplied by the Member States with the latest statistics for 1977 also confirms their reliability. The table below shows that gross inland consumption was estimated to have risen by 0.4 per cent in 1977 - an estimate which is close to the Statistical Office (SOEC) estimate of an increase of only 0.1% in that year.

Community/million toe or %	1976 (2)	I/1977 +II/1977 Reg. 1729	1977- 1976 % change
Inland production	398.2	428.8	+ 7.7
Net imports	561.2	531.9	- 5.2
Changes in stocks	- 10.4	- 8.4	-
Bunkers	32.0	31.4	- 1.9
Gross inland consumption	917.0	920.9	+ 0.4

(1) Council Regulation (EEC) No 1729/76 of 21 June 1976 concerning the communication of information on the Community's energy supplies, published in the Official Journal of the European Communities, No L 198, 23 July 1976.

(2) Eurostat.

5. The information received in March 1978 included forecasts for the first half of 1978. From this information, compared with the estimates previously supplied for the first half of 1977, it was possible to derive the following movements for the Community as a whole:

Community/million toe or %	Reg. 1729/76 I/1977 Sept. 1977	Reg. 1729/76 I/1978 March 1978	I-1978/ I-1977 % change
Inland production	218.0	225.4	+ 3.4
Net imports	268.2	262.3	- 2.2
Changes in stocks	+ 3.1	+ 7.1	-
Bunkers	16.2	15.7	- 3.1
Gross inland consumption (6 months)	473.1	479.1	+ 1.3

The inland consumption of primary energy for each of the energy sources is as follows:

Community/million toe or %	Reg. 1729/76 I/1977 Sept. 1977	Reg. 1729/76 I/1978 March 1978	I-1978/ I-1977 % change
Hard coal and equivalents	89.7	91.4	+ 1.9
Lignite and equivalents	13.0	13.7	+ 5.4
Crude oil and equivalents	253.3	255.4	+ 0.8
Natural gas and equivalents	83.9	88.5	+ 5.4
Nuclear	13.6	13.7	+ 0.7
Hydroelectric, geothermal and others	19.6	16.4	-16.3
Total gross inland consumption (6 months)	473.1	479.1	+ 1.3

6. According to the information from Member States, the Community's net imports of energy in the first half of 1978 should be below the level in the first half of 1977; there should be a fall of about 4% in net oil imports. This is due to the very appreciable increase in Community oil production which, from just below 26 million toe in the second half of 1977, is expected to rise to about 33 million toe in the first half of 1978. Stocks of energy products held in the Community at the end of June 1978 should represent - on the basis of inland requirements recorded in 1977 - about 105 days' consumption of solid fuels, 88 days' consumption of oil products and 18 days' consumption of natural gas.

Annexes: 1. Summary of replies to the questionnaire from Regulation 1729/76

- Gross inland consumption
- Production of primary sources
- Net imports
- Stocks

2. Graphs of energy production and consumption

- Community
- Belgium
- Denmark
- Germany
- France
- Ireland
- Italy
- Luxembourg
- Netherlands
- United Kingdom

Synthèse des réponses au questionnaire du Règlement 1729/76
 Summary of replies to questionnaire on Regulation 1729/76
 Synthese der Antworten auf den Fragebogen der Verordnung 1729/76

Mio t eij	Houille et dérivés	Lignite et dérivés	Pétrole	Gaz	Electricité primaire	TOTAL
Mio toe	Hard coal and derived products	Lignite and derived products	Oil	Gas	Primary (.) Electricity	TOTAL
Mio t ROE	Steinkohle und Derivate	Braunkohle und Derivate	Öl	Gas	Primäre Elektrizität	INSGESAMT

Consommation intérieure brute - Gross inland consumption - Brutto-Inlandsverbrauch
 d'énergie primaire of primary sources von Primärenergieträgern
 Premier semestre 1977 First half-year 1977 Erstes Halbjahr 1977

Belgique	4,355	0,006	11,981	5,108	1,011	22,461
Danmark	1,698	0,003	8,629	-	-0,006	10,324
Deutschland	22,400	11,500	65,106	20,393	7,379	126,778
France	15,288	0,537	56,944	9,748	11,510	94,027
Ireland	0,238	0,703	2,612	-	0,037	3,590
Italia	4,584	0,239	46,651	10,934	6,872	69,280
Luxembourg	0,889	0,012	0,750	0,192	0,404	2,247
Nederland	1,545	0,002	13,998	17,383	0,368	33,296
United Kingdom	38,660	-	46,590	20,140	5,675	111,065
COMMUNAUTE	89,657	13,002	253,261	83,898	33,250	473,068

Deuxième semestre 1977 - Second half-year 1977 - Zweites Halbjahr 1977

Belgique	4,557	0,005	10,754	4,759	1,130	21,205
Danmark	1,643	0,005	7,565	-	0,144	9,357
Deutschland	23,300	12,200	68,064	19,004	6,043	128,611
France	14,945	0,568	51,194	8,429	10,290	85,426
Ireland	0,258	0,659	2,778	-	0,086	3,781
Italia	4,513	0,176	44,807	10,246	6,347	66,089
Luxembourg	0,848	0,003	0,720	0,192	0,553	2,316
Nederland	1,649	0,005	12,640	16,247	0,673	31,214
United Kingdom	34,380	-	43,835	16,365	5,305	99,885
COMMUNAUTE	86,093	13,621	242,357	75,242	30,571	447,884

Premier semestre 1978 - First half-year 1978 - Erstes Halbjahr 1978

Belgique	4,410	0,005	12,170	5,000	1,220	22,805
Danmark	1,900	0,003	8,650	-	0,007	10,560
Deutschland	24,200	12,200	67,592	21,891	6,289	132,172
France	16,055	0,568	56,020	10,000	9,980	92,623
Ireland	0,225	0,770	2,990	-	0,100	4,085
Italia	4,505	0,176	44,789	11,100	5,657	66,227
Luxembourg	0,850	0,010	0,664	0,225	0,421	2,170
Nederland	1,798	0,002	13,900	17,550	0,700	33,950
United Kingdom	37,465	-	48,640	22,680	5,750	114,535
COMMUNAUTE	91,408	13,734	255,415	88,446	30,124	479,127

(.) Autres produits primaires inclus.
 Other primary fuels included.
 Einschliesslich andere primäre Brennstoffe.

Mio tep	Houille	Lignite	Pétrole	Gaz	Nucléaire	Autres(.	TOTAL
Mio toe	Hard Coal	Lignite	Oil	Gas	Nuclear	Others	TOTAL
Mio t ROE	Steinkohle	Braunkohle	Öl	Gas	Kernenergie	Sonstige	INSGESAMT

Production primaire - Primary production - Erzeugung von Primärenergie
 Premier semestre 1977 First half-year 1977 Erstes Halbjahr 1977

Belgique	2,393	-	-	0,007	1,082	0,055	3,537
Danmark	-	-	0,233	-	-	0,003	0,236
Deutschland	29,400	11,300	2,836	7,958	4,626	2,033	58,153
France	8,946	0,507	0,892	3,181	1,930	9,010	24,466
Ireland	0,017	0,580	-	-	-	0,037	0,634
Italia	-	0,229	0,540	5,527	0,425	6,087	12,808
Luxembourg	-	-	-	-	-	0,036	0,036
Nederland	-	-	0,808	38,052	0,420	-	39,280
United Kingdom	36,410	-	16,945	19,820	5,145	0,530	78,850
COMMUNAUTE	77,166	12,616	22,254	74,545	13,628	17,791	218,000

Deuxième semestre 1977 - Second half-year 1977 - Zweites Halbjahr 1977

Belgique	1,953	-	-	-	1,254	0,063	3,270
Danmark	-	-	0,270	-	-	0,003	0,273
Deutschland	29,800	11,800	2,785	7,392	3,469	1,897	57,143
France	7,150	0,490	0,896	3,206	1,990	7,760	21,492
Ireland	0,043	0,713	-	-	-	0,086	0,842
Italia	-	0,158	0,599	5,230	0,320	5,775	12,082
Luxembourg	-	-	-	-	-	-	-
Nederland	-	-	0,790	37,263	0,540	0,100	38,693
United Kingdom	35,870	-	20,595	15,265	4,805	0,500	77,035
COMMUNAUTE	74,816	13,161	25,935	58,356	12,378	16,184	210,530

Premier semestre 1978 - First half-year 1978 - Erstes Halbjahr 1978

Belgique	2,387	-	-	-	1,320	0,044	3,751
Danmark	-	-	0,170	-	-	0,003	0,173
Deutschland	29,800	11,900	2,650	7,848	3,611	1,974	57,783
France	8,440	0,570	0,820	3,050	2,750	6,930	22,560
Ireland	0,043	0,610	-	-	-	0,100	0,753
Italia	-	0,160	0,570	5,400	0,440	4,997	11,567
Luxembourg	-	-	-	-	-	0,014	0,014
Nederland	-	-	0,825	36,440	0,500	0,100	37,865
United Kingdom	36,870	-	27,640	20,690	5,125	0,625	90,950
COMMUNAUTE	77,540	13,240	32,675	73,428	13,746	14,787	225,410

(.) Hydraulique et géothermique + autres.
 Hydraulic and geothermal energy + other.
 Wasserkraft und Erdwärme + andere.

Mio tep	Houille et dérivés	Lignite et dérivés	Pétrole	Gaz	Electricité primaire	TOTAL
Mio toe	Hard coal and derived products	Lignite and derived products	Oil	Gas	Primary (.) Electricity	TOTAL
Mio t ROE	Steinkohle und Derivate	Braunkohle und Derivate	Ol	Gas	Primäre Elektrizität	INSGESAMT

Importation nette Net import Nettoeinfuhr
Premier semestre 1977 - First half-year 1977 - Erstes Halbjahr 1977

Belgique	2,087	0,006	13,415	5,101	-0,126	20,483
Danmark	1,623	0,003	8,378	-	-0,009	9,995
Deutschland	-3,300	0,200	64,364	12,405	0,720	74,389
France	7,746	0,026	53,900	6,833	0,570	69,075
Ireland	0,223	-0,004	2,767	-	-	2,986
Italia	4,510	0,011	49,808	5,407	0,360	60,096
Luxembourg	0,863	0,012	0,750	0,192	0,404	2,221
Nederland	1,533	0,002	18,400	-20,669	-0,052	-0,786
United Kingdom	-0,300	-	29,745	0,320	-	29,765
COMMUNAUTE	14,956	0,256	241,527	9,589	1,007	268,224

Deuxième semestre 1977 - Second half-year 1977 - Zweites Halbjahr 1977

Belgique	2,196	0,005	12,021	4,729	-0,187	18,754
Danmark	1,843	0,005	8,451	-	0,141	10,440
Deutschland	-4,800	0,400	69,546	11,951	0,677	77,774
France	7,843	0,049	57,668	5,927	0,540	72,027
Ireland	0,250	-0,004	2,844	-	-	3,090
Italia	4,430	0,018	46,178	5,262	0,252	56,140
Luxembourg	0,848	0,003	0,720	0,192	0,553	2,316
Nederland	1,624	0,005	17,624	-20,796	-0,220	-1,763
United Kingdom	0,285	-	23,520	1,100	-	24,905
COMMUNAUTE	14,519	0,481	238,573	8,365	1,756	263,093

Premier semestre 1978 - First half-year 1978 - Erstes Halbjahr 1978

Belgique	1,847	0,005	13,700	5,000	-0,144	20,406
Danmark	1,800	0,003	8,110	-	0,004	9,917
Deutschland	-5,300	0,300	65,568	14,196	0,704	75,468
France	7,840	0,033	54,900	7,250	0,300	70,323
Ireland	0,173	-0,004	3,021	-	-	3,190
Italia	4,530	0,016	45,550	5,800	0,220	56,116
Luxembourg	0,850	0,010	0,671	0,225	0,407	2,163
Nederland	1,789	0,002	18,200	-18,890	0,100	1,201
United Kingdom	-0,185	-	21,700	1,990	-	23,505
COMMUNAUTE	13,344	0,365	231,420	15,571	1,591	262,291

(.) Autres produits primaires inclus.
Included other primary fuels.
Einschliesslich andere primäre Brennstoffe.

Stocks : situation
fin juin 1978

Stocks : level
end June 1978

Bestände : Stand
Ende Juni 1978

Mio tep Mio toe Mio t ROE	Houille+Coke Hard coal +Coke Steinkohle+Koks	Lignite+Tourbe Lignite+Peat Braunkohle+Torf	Pétrole+Produits Oil+Products Ol+Produkte	Gaz Gas Gas
Belgique	0,396	-	6,465	-
Danmark	1,530	0,001	5,716	-
Deutschland	19,900	-	24,000	-
France	8,800	0,225	29,100	5,285
Ireland	0,072	1,261	0,947	-
Italia*	1,900	0,001	22,000	2,682
Luxembourg	0,084	-	0,095	-
Nederland	0,057	-	11,287	-
United Kingdom	24,130	-	19,570	-
COMMUNAUTE (*)	56,869	1,488	119,180	7,967

Stocks : variations pendant
le deuxième semestre
1977 et le premier
semestre 1978

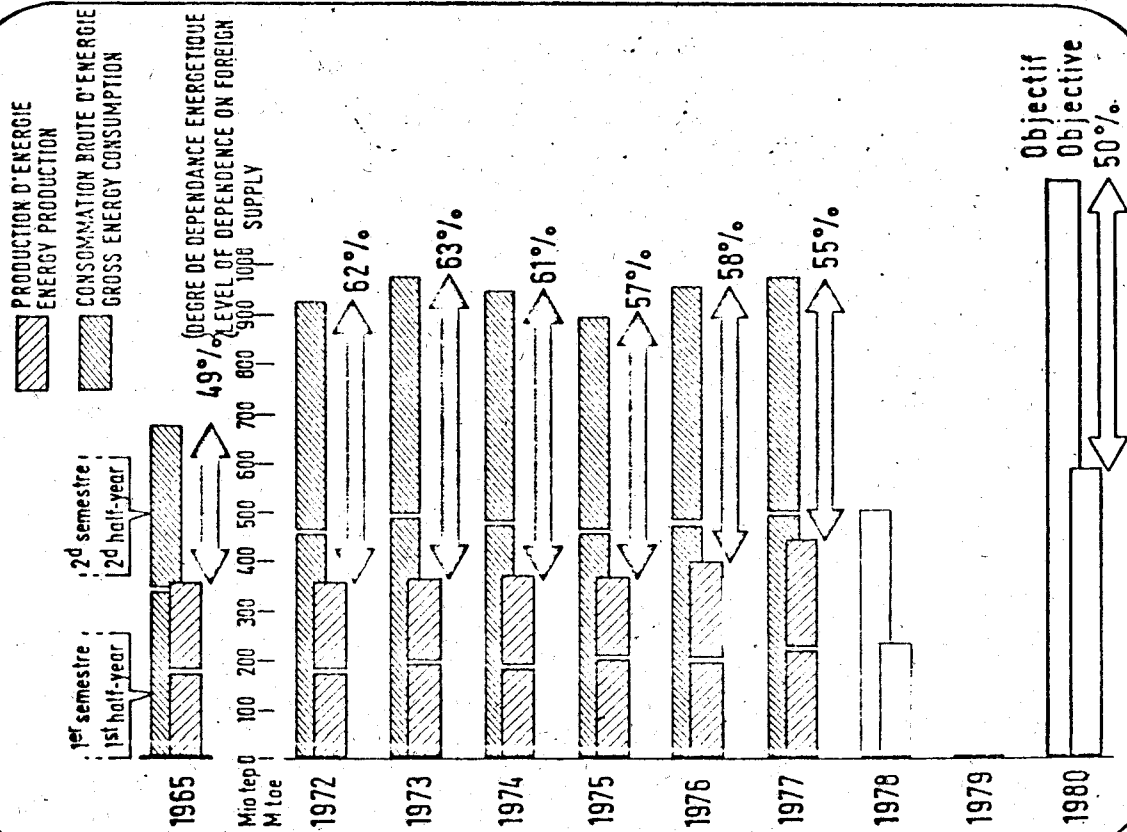
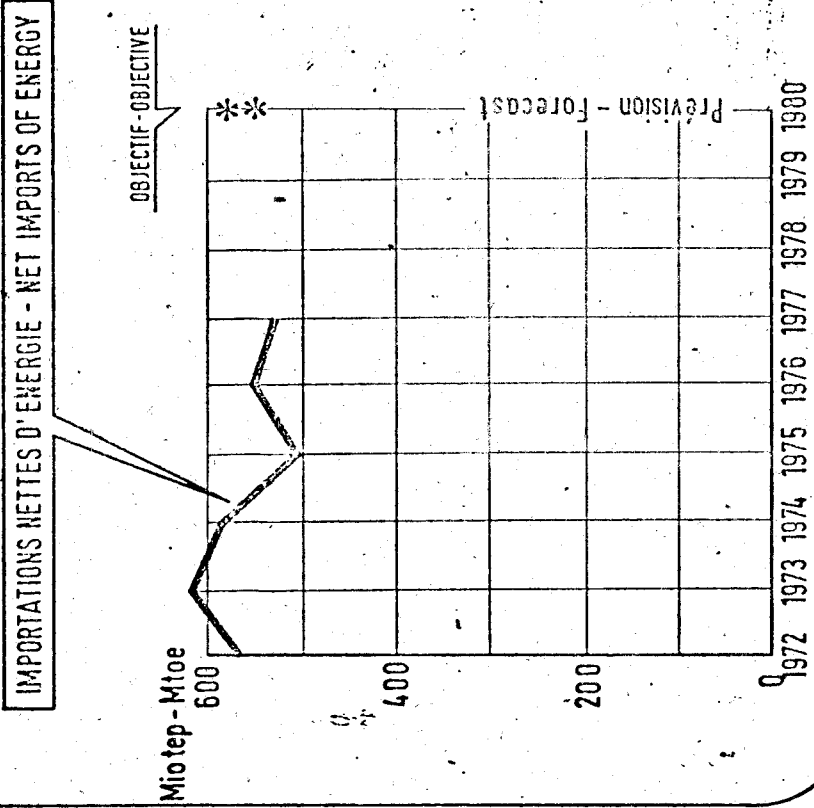
Stocks : variations during
second half-year
1977 and first
half-year 1978

Bestände : Veränderungen im
zweiten Halbjahr
1977 und im ersten
Halbjahr 1978

Mio tep Mio toe Mio t ROE	Houille+Coke Hard Coal + Coke Steinkohle+Koks	Lignite+Tourbe Lignite+Peat Braunkohle+Torf	Pétrole+Produits Oil+Products Ol+Produkte	Gaz Gas Gas	TOTAL TOTAL INSGESAMT
Belgique	+ 0,584	-	- 0,009	0,030	+ 0,605
Danmark	- 0,100	-	- 0,311	-	- 0,411
Deutschland	- 2,000	-	- 2,132	- 0,492	- 4,624
France	- 0,273	- 0,006	- 1,589	- 1,004	- 2,872
Ireland	- 0,026	+ 0,114	+ 0,002	-	+ 0,090
Italia	+ 0,058	-	+ 2,341	- 0,346	+ 2,053
Luxembourg(+)	-	-	- 0,007	-	- 0,007
Nederland	+ 0,034	-	+ 0,053	-	+ 0,087
United Kingdom	- 0,995	-	+ 1,735	-	+ 0,740
COMMUNAUTE (+)	- 2,718	+ 0,108	+ 0,083	- 1,812	- 4,339

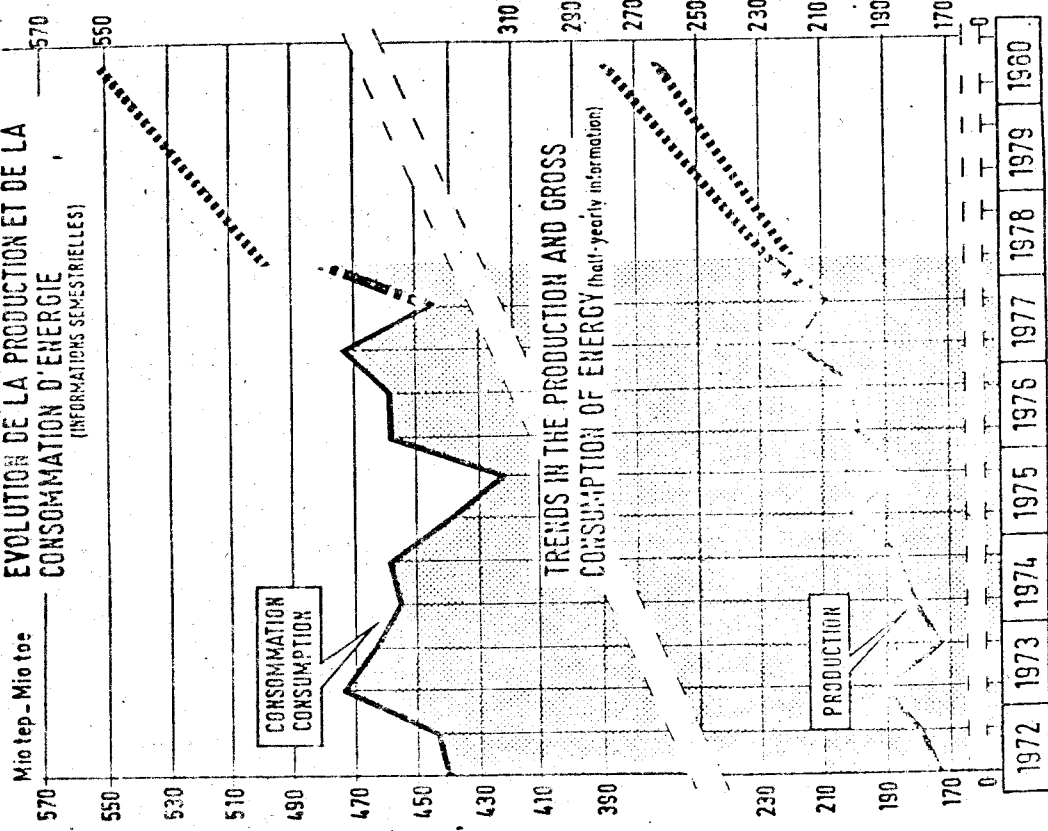
(+) Seulement le premier semestre 1978
Only first half-year 1978
Nur das erste Halbjahr 1978

COMMUNAUTÉ EUROPÉENNE EUROPEAN COMMUNITY

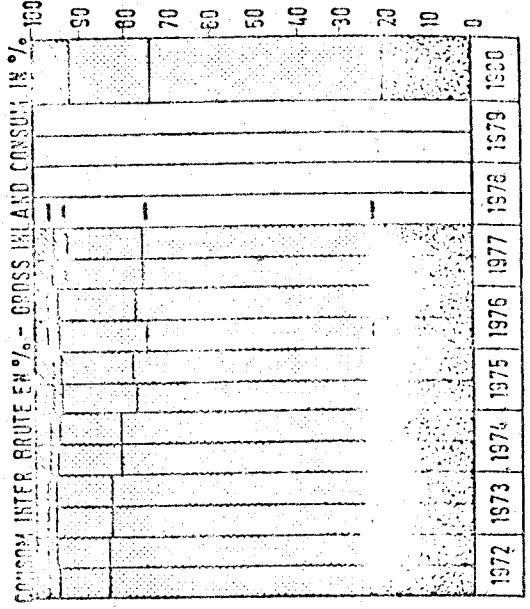
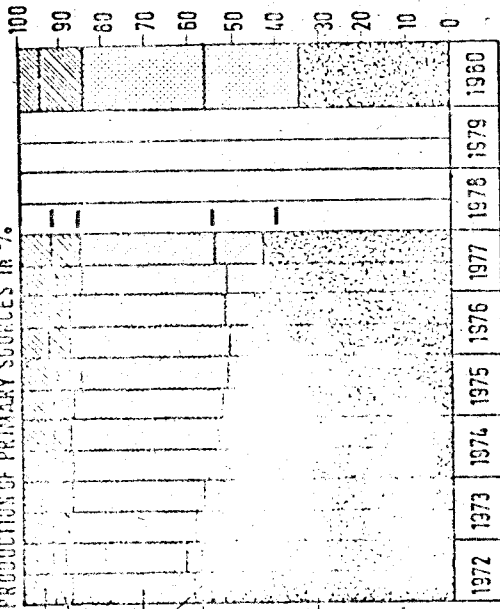


COMMUNAUTÉ EUROPÉENNE - EUROPEAN COMMUNITY

EVOLUTION DE LA PRODUCTION ET DE LA CONSOMMATION D'ENERGIE (INFORMATIONS SEMESTRIELLES)



PRODUCTION DE SOURCES PRIMAIRES EN %
PRODUCTION OF PRIMARY SOURCES IN %

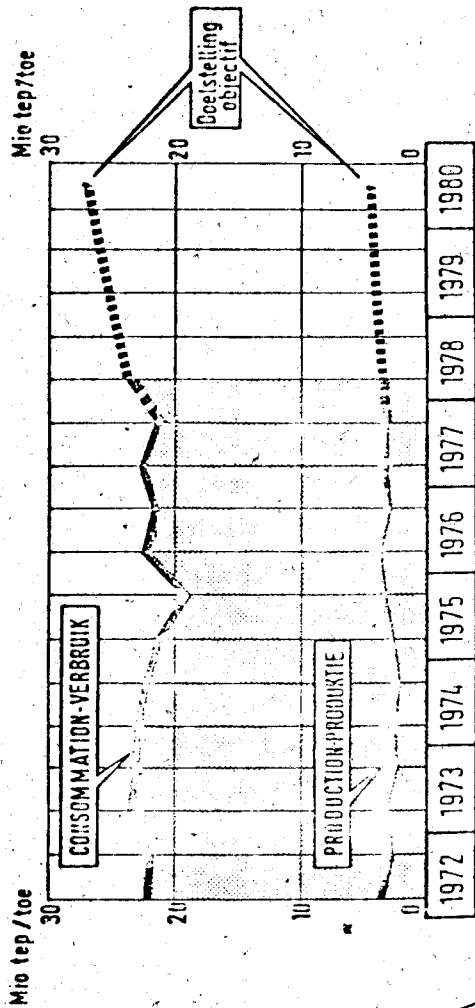
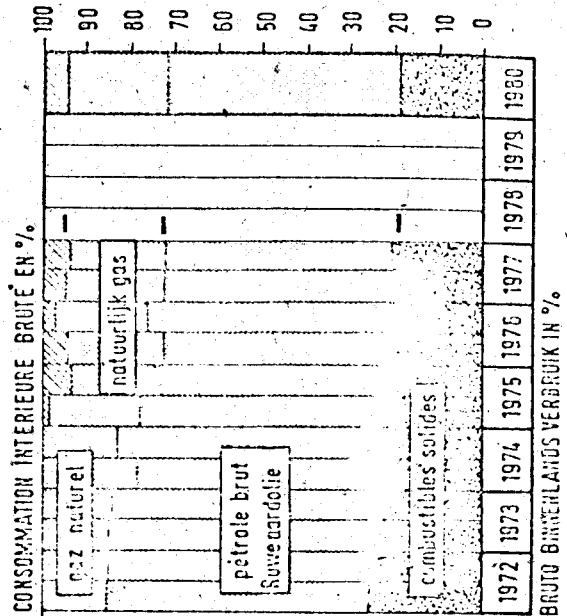
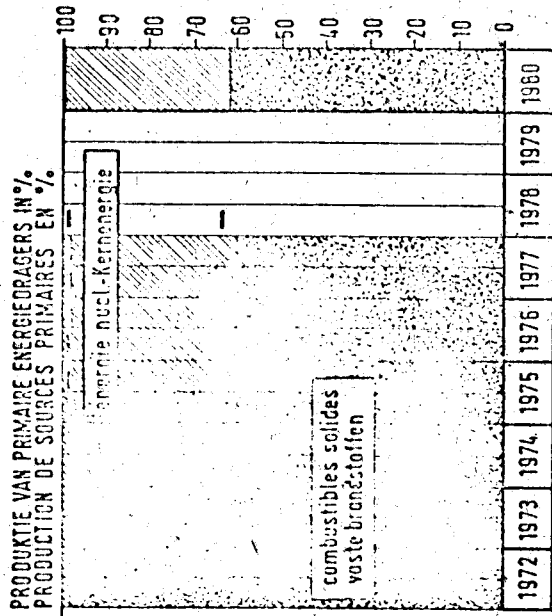


Autres - Others
Energ. nucl. - Nuclear
Hydrocarbures
Hydrocarbons
Pétrole brut
Crude oil
Combustibles solides
Solid fuels



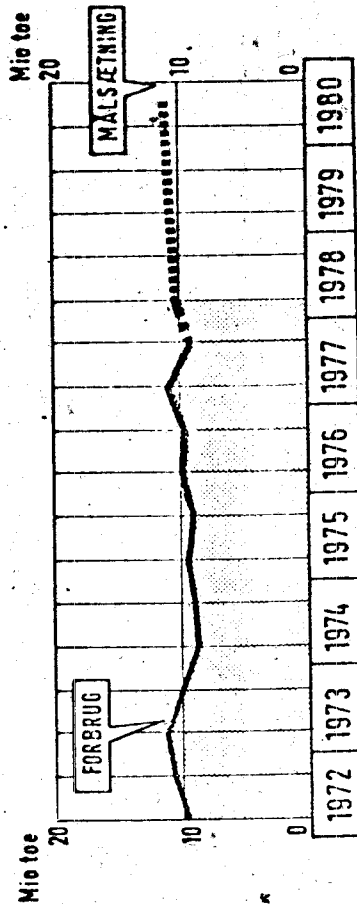
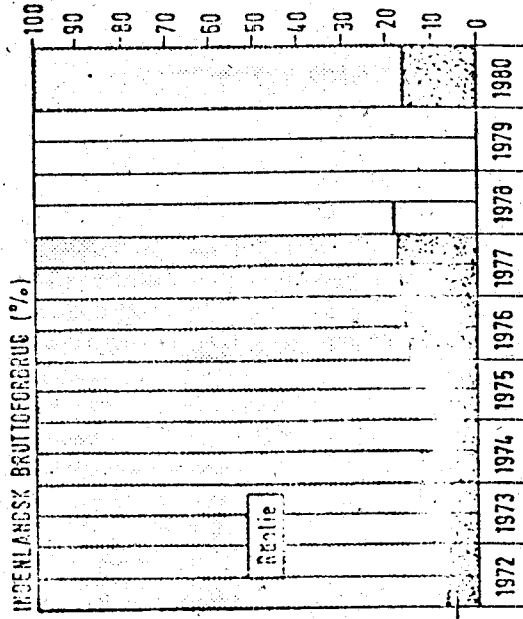
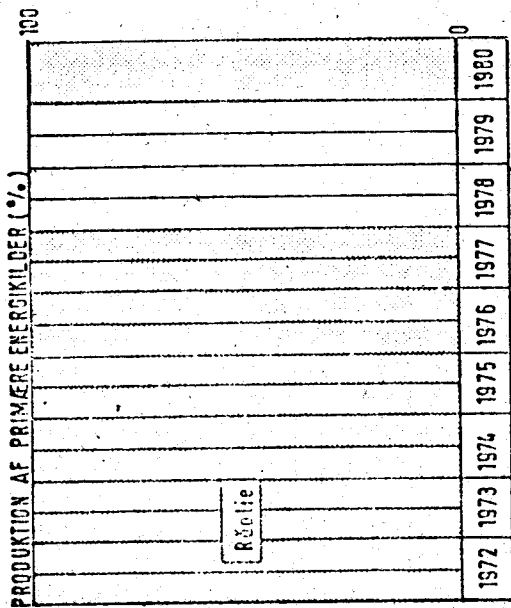
**ONTWIKKELING VAN
DE PRODUCTIE
EN HET BRUTO-
ENERGIEVERBRUIK**
(HALFJAARLUKS INLICHTINGEN)

**EVOLUTION DE
LA PRODUCTION
ET DE LA CONSOMMATION
D'ENERGIE**
(INFORMATIONNS SEMESTRIELLES)



DANMARK

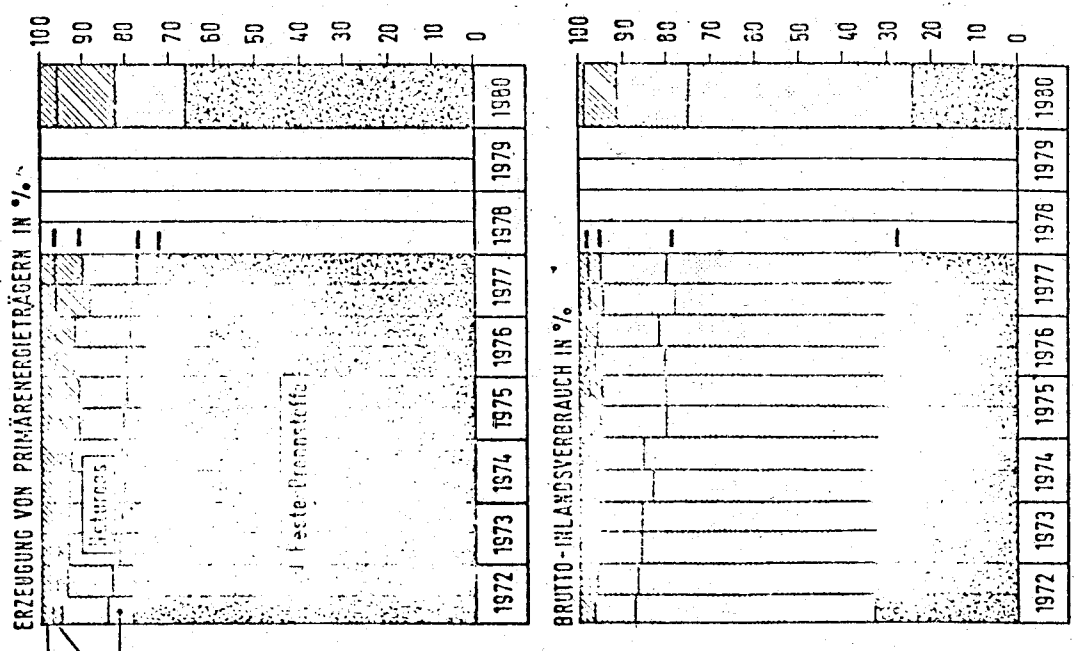
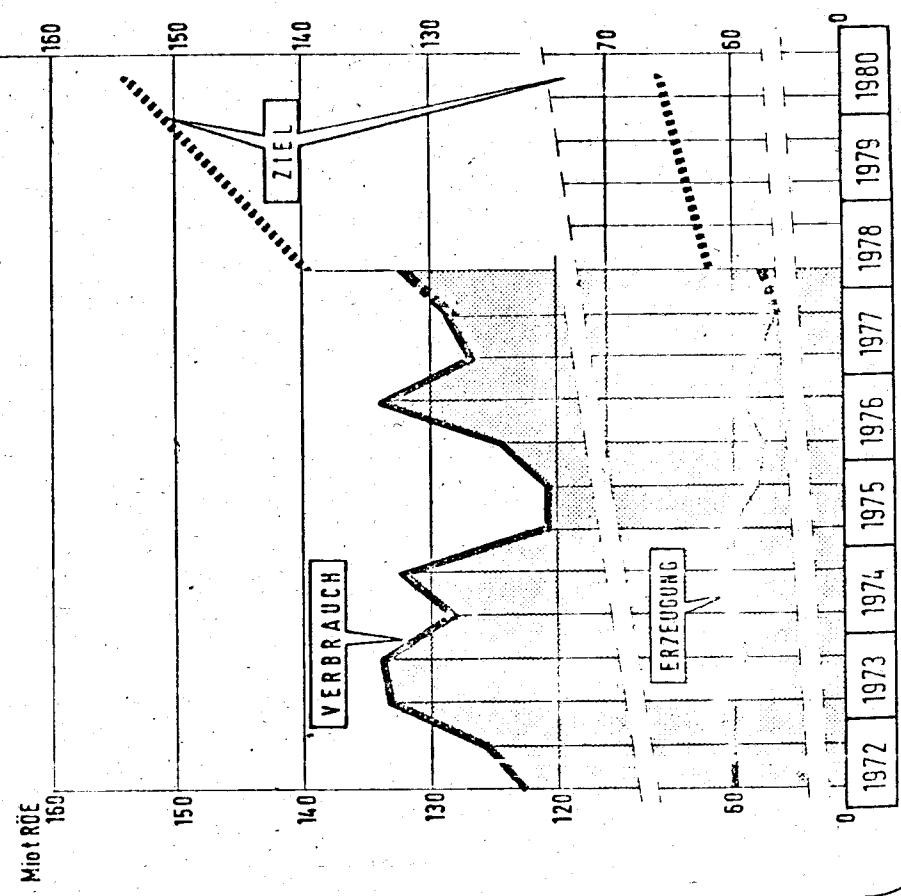
UDVIKLING AF PRODUKTIONEN OG BRUTTOENERGIFORBRUGET (HALVÅRLIGE OPLYSNINGER)



fast
brændsel

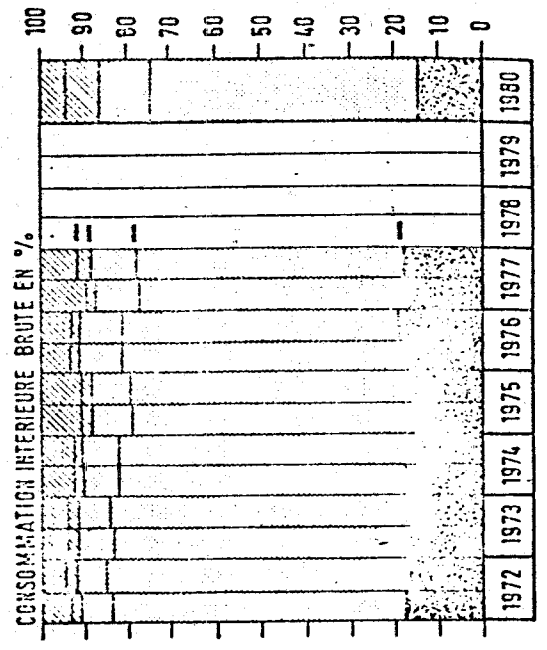
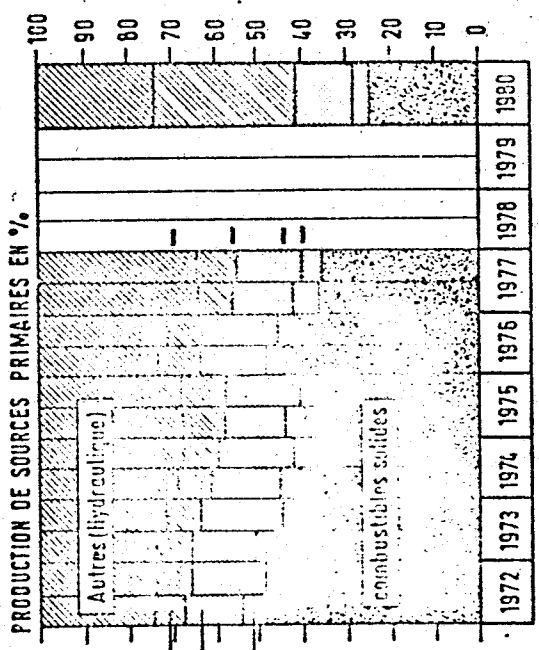
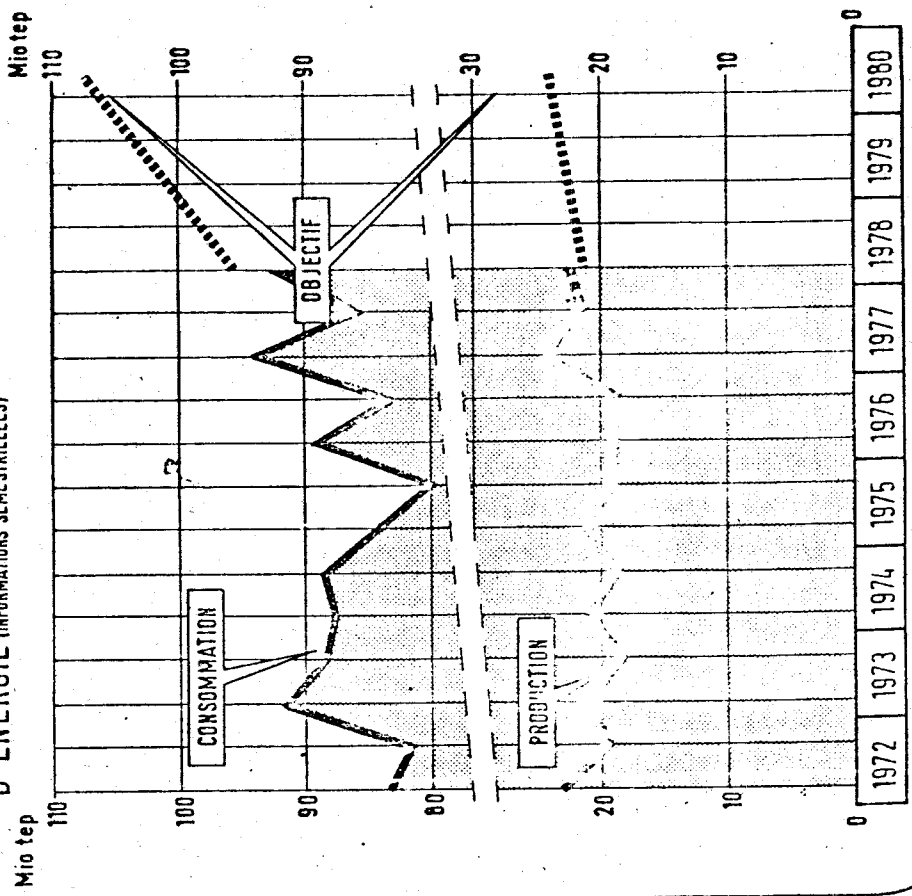
BRD DEUTSCHLAND

ENTWICKLUNG DER ERZEUGUNG UND DES BRUTTO-ENERGIEVERBRAUCHS (HALBJÄHRLICHE ANGABEN)



FRANCE

EVOLUTION DE LA PRODUCTION ET DE LA CONSOMMATION D'ENERGIE (INFORMATIONS SEMESTRIELLES)



énergie nucléaire
gaz naturel
pétrole brut

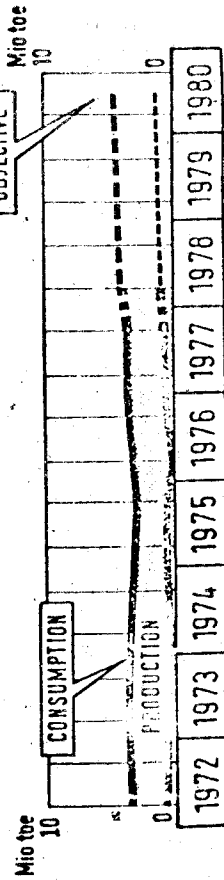
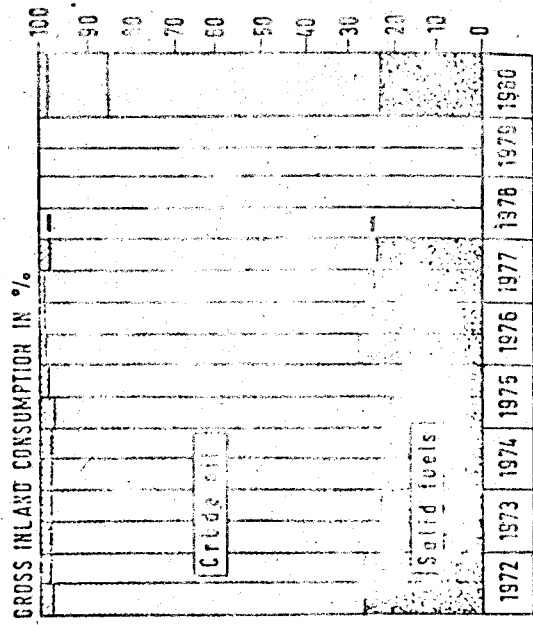
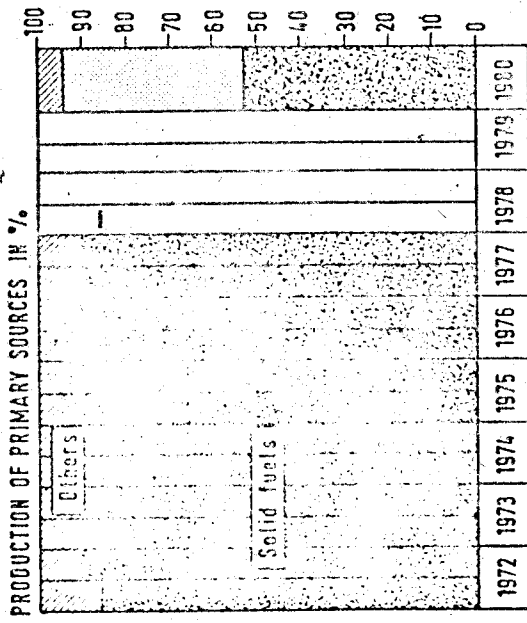
PRODUCTION DE SOURCES PRIMAIRES EN %

CONSOMMATION INTERIEURE BRUTE EN %

IRELAND

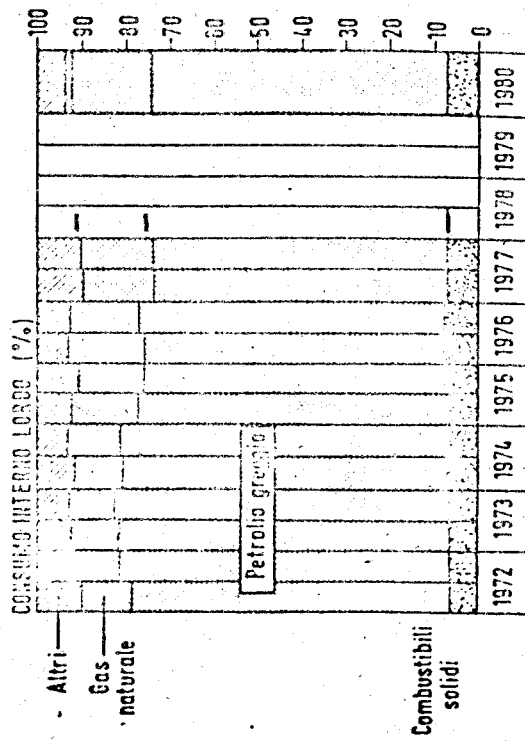
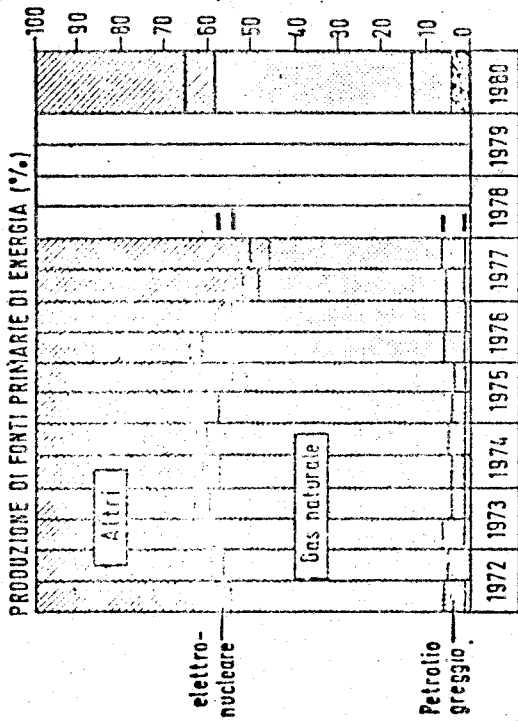
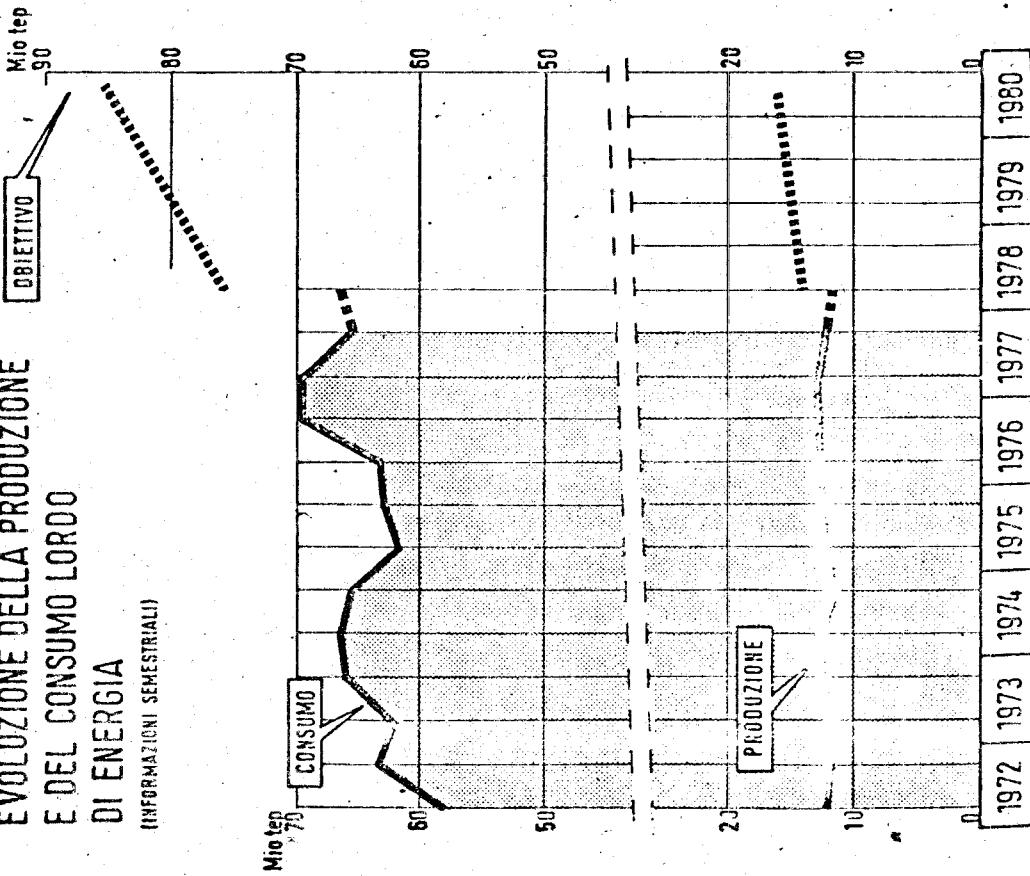
TRENDS IN THE PRODUCTION AND GROSS CONSUMPTION OF ENERGY

(HALF-YEARLY INFORMATION)



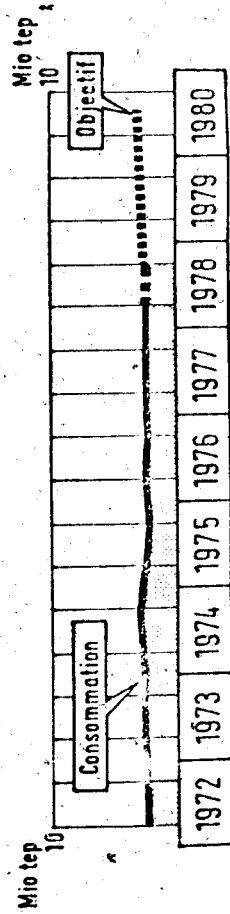
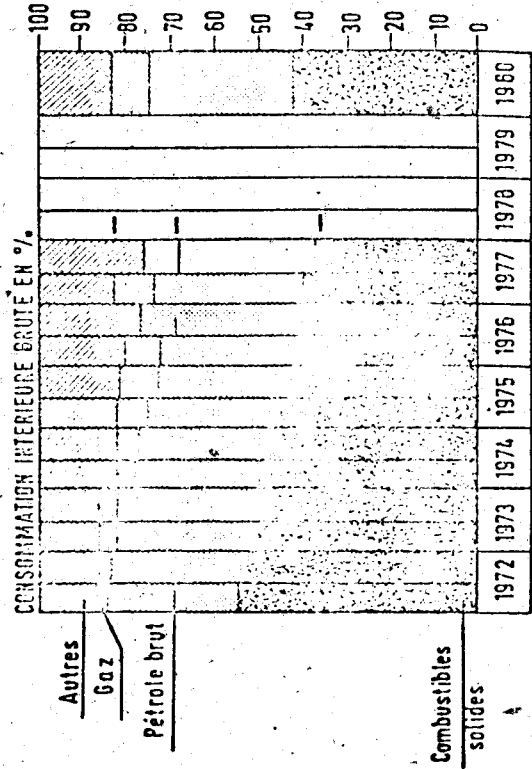
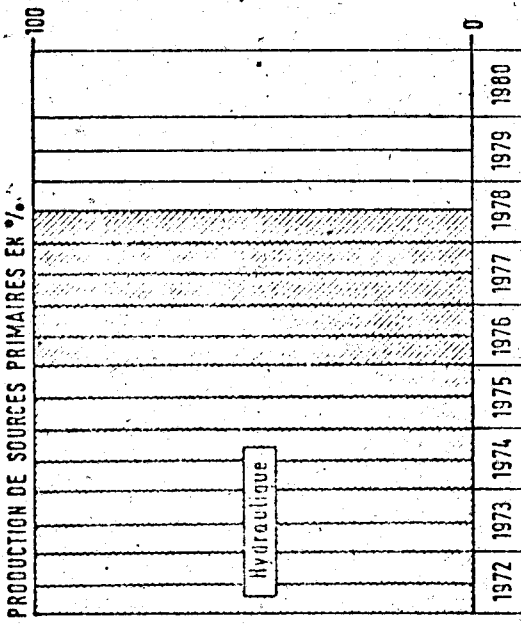
ITALIA

EVOLUZIONE DELLA PRODUZIONE E DEL CONSUMO LORDO DI ENERGIA (INFORMAZIONI SEMESTRIALI)



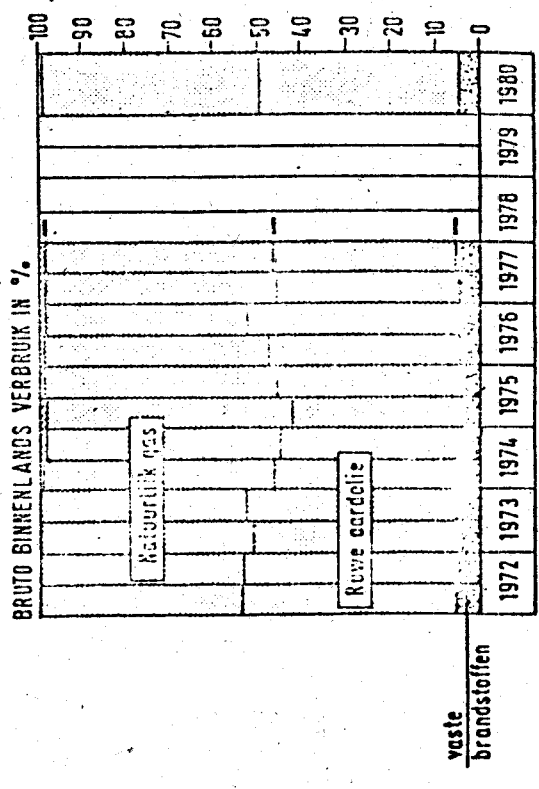
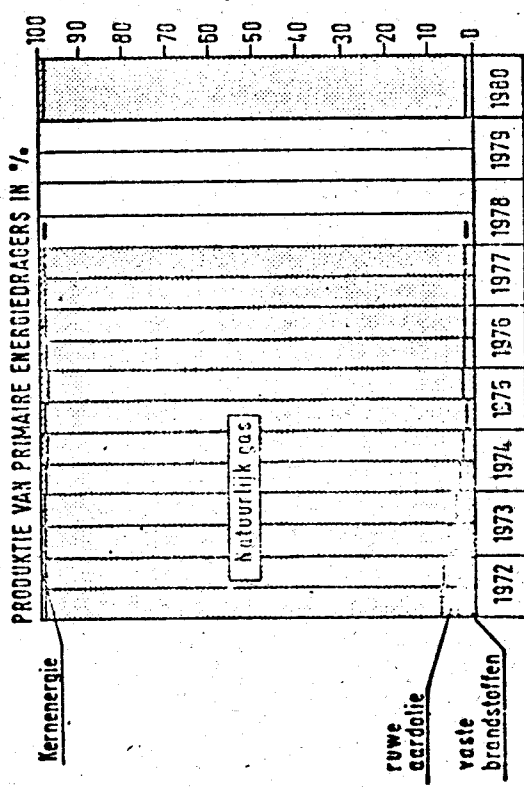
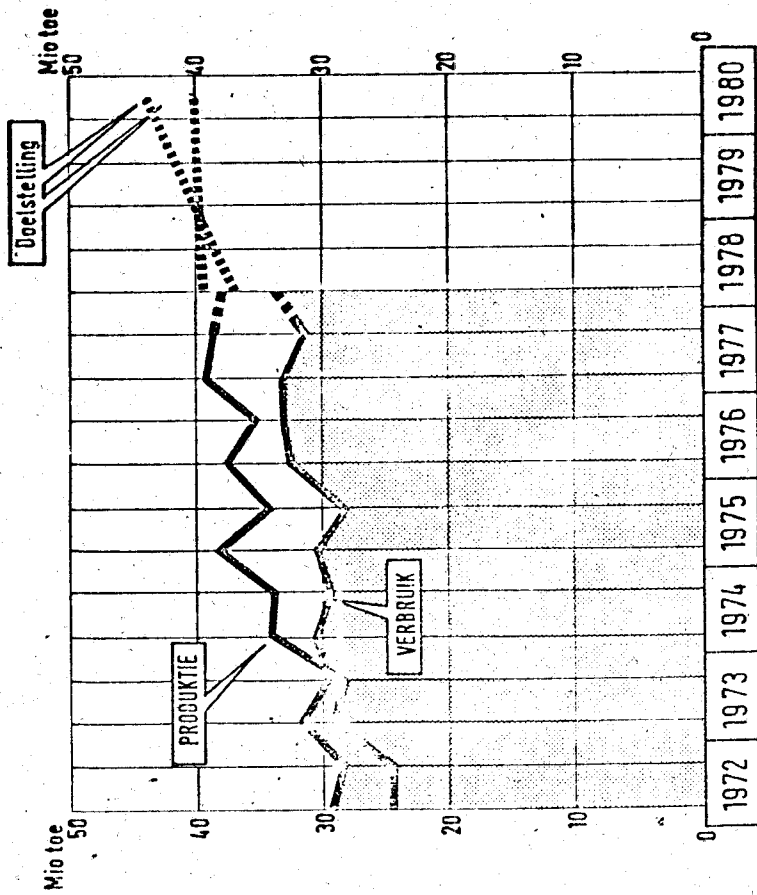
LUXEMBOURG

EVOLUTION DE LA PRODUCTION ET DE LA CONSOMMATION BRUTE D'ENERGIE (INFORMATIONS SEMESTRIELLES)



NEDERLAND

ONTWIKKELING VAN DE PRODUKTIE EN HET BRUTO-ENERGIEVERBRUIK (HALFJAARLUKS INLICHTINGEN)



UNITED KINGDOM

TRENDS IN THE PRODUCTION AND GROSS CONSUMPTION OF ENERGY (HALF-YEARLY INFORMATION)

