



# World Energy Consumption

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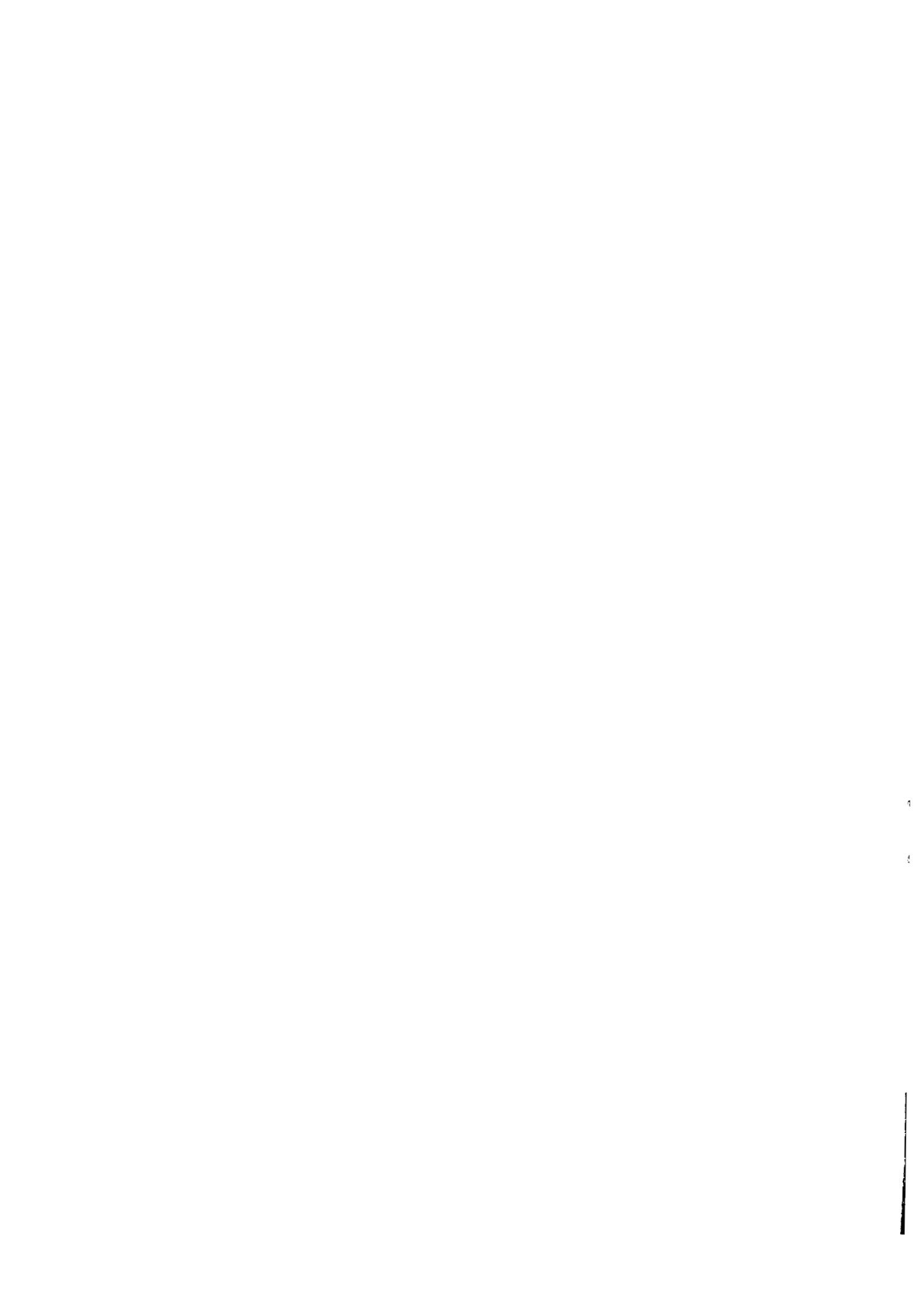
INTERNATIONAL INSTITUTE FOR **IIASA** APPLIED SYSTEMS ANALYSIS  
RESEARCH MEMORANDUM

## WORLD ENERGY CONSUMPTION

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December 1973

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## World Energy Consumption

J.P. Charpentier

The attached curves show the evolution (1960-2000) in different countries of:

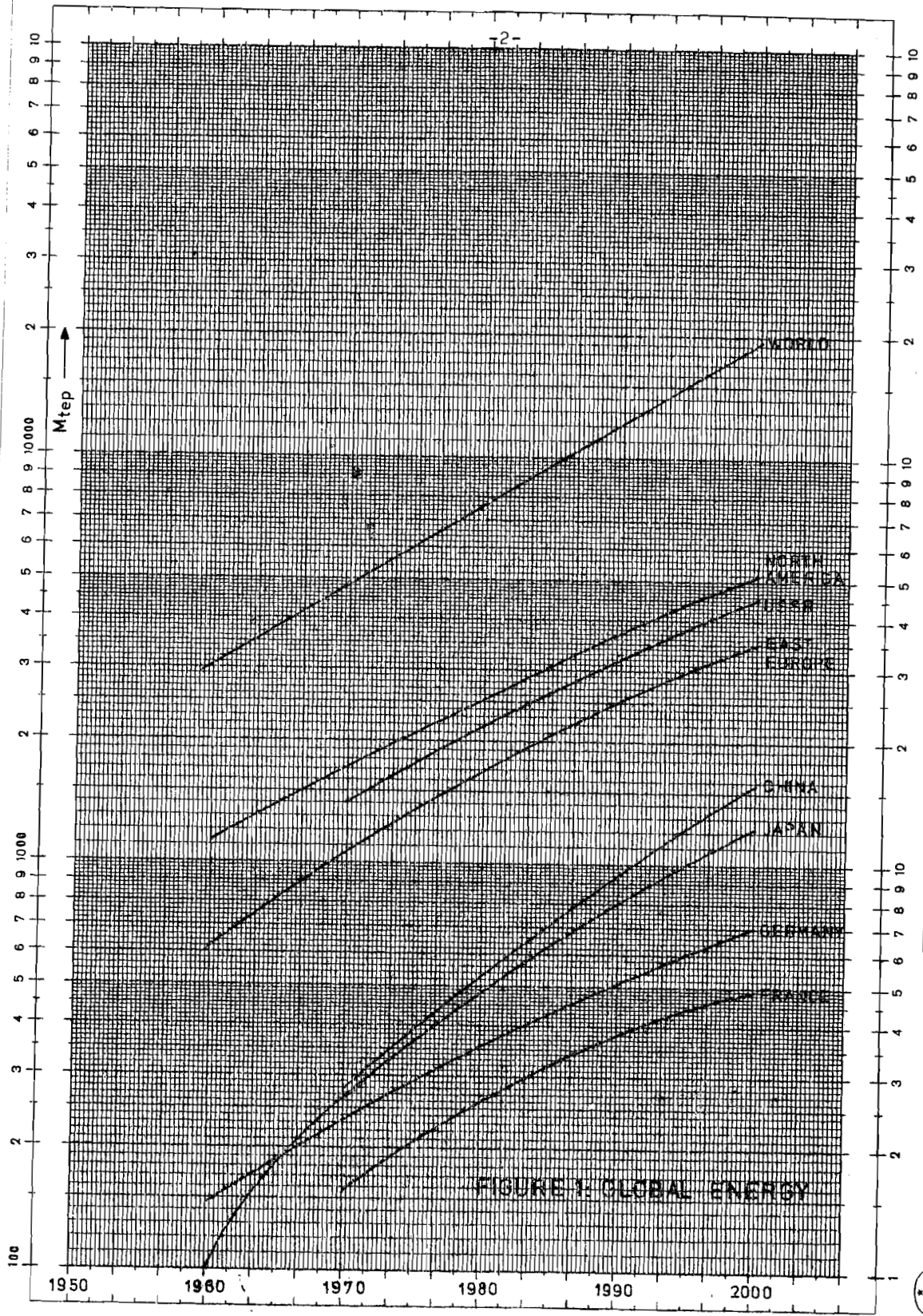
- the global energy consumption;
- the electric energy consumption; and
- the production of nuclear energy for electric consumption.

These curves have been obtained by arithmetic average of different literature sources.

The unit conversion table was:

$$1 \text{ Mtec} = 0.7 \text{ M tep}$$

$$1 \text{ Twh} = 0.23 \text{ M tep} .$$



Eine Achse logar. geteilt von 1 bis 1000, Einheit 90 mm, die andere in mm

Bestell-Nr. 667 006, Nr. 373 1/2 A 4 P. MADE IN GERMANY

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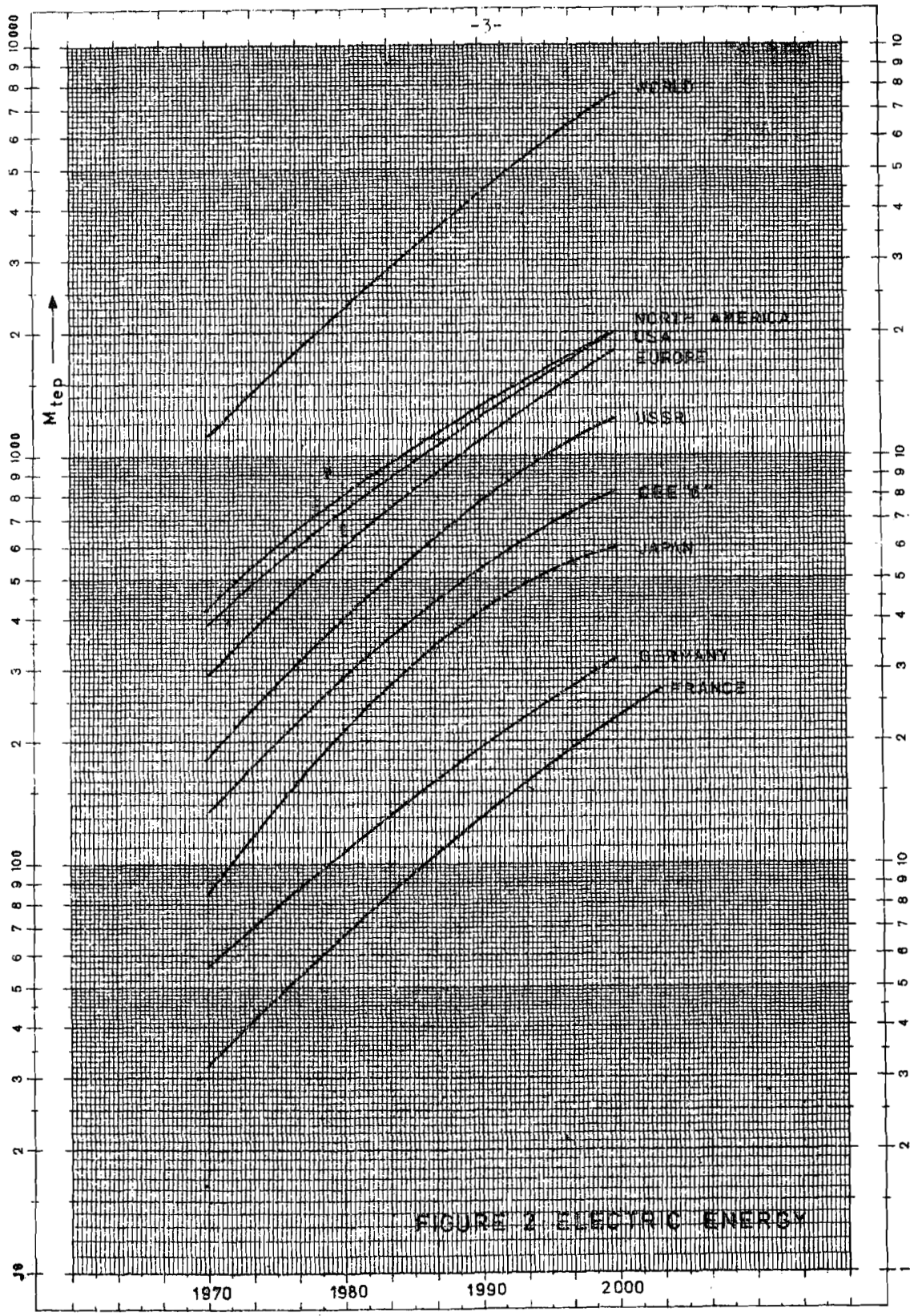


FIGURE 2 ELECTRIC ENERGY

Eine Achse logar. geteilt von 1 bis 1000. Einheit=60 mm, die andere in mm

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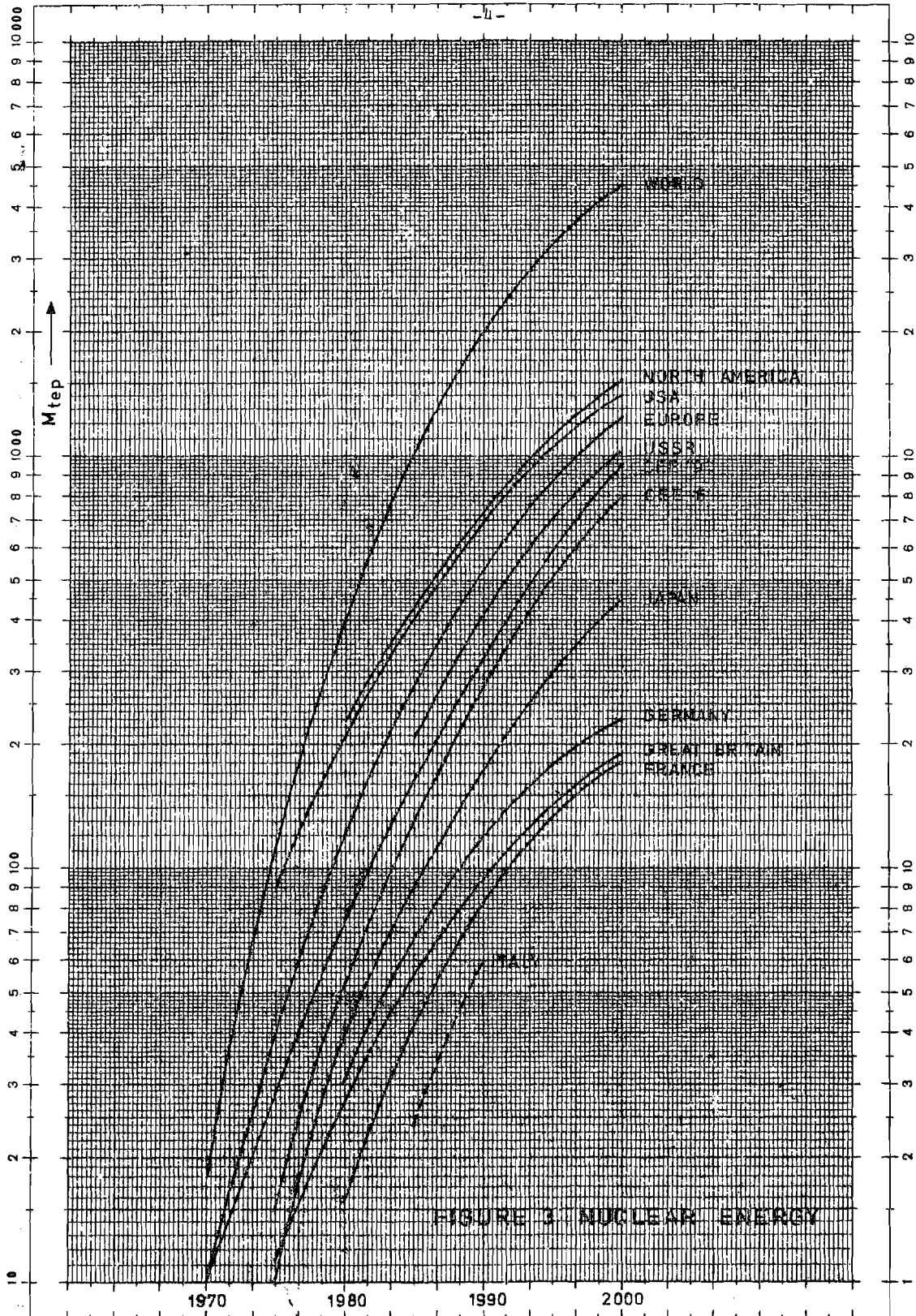


FIGURE 3 NUCLEAR ENERGY

Eine Achse logar. geteilt von 1 bis 1000, Einheit 90 mm, die andere in mm

Bastell-Nr. 667 006, Nr. 373 1/2, A 4 P. max. 10.000mm



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Table 1. Evolution of the partition between the consumption of electricity and non-electricity energy.

	Total Energy Consumption 10 <sup>3</sup> tec		Electricity Consumption 10 <sup>6</sup> Kwh (10 <sup>3</sup> tec) * 1		Proportion of the electricity in the global consumption of energy	
	1961	1970	1961	1970	1961	1970
Canada	102 558	192 589	110 927 (36 939)	201 300 (67 033)	36%	35%
USA	1481 821	2278 966	883 750 (294 289)	1640 264 (546 208)	20%	24%
Japan	123 403	332 370	128 316 (42 729)	350 590 (116 746)	35%	35%
France	116 006	193 034	76 583 (25 502)	140 209 (46 690)	22%	24%
Italy	60 945	144 102	60 733 (20 224)	121 388 (40 422)	33%	28%
U.K.	260 433	299 143	145 954 (48 602)	249 222 (82 991)	19%	28%
USSR	630 774	1076 861	327 537 (109 070)	735 626 (244 963)	17%	23%
Germany 1960	209 772	337 154	↓ <sup>1960</sup> 123 193 (41 023)	250 355 (83 368)	20%	25%

\* 1:10<sup>3</sup> Kwh = 0.333 tec.

World Energy Supplies 61-70: U.N.