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** Updating to 10 April 1971 of the percentage BREAKDOWN, by reactor type, of the NUCLEAR REACTOR CAPACITY in operation or under construction in the Community gives the following figures:

Graphite gas	2.565 MWe	20.7%
Boiling light water	3.685 MWe	29.7%
Pressurized light water	5.631 MWe	45.5%
Heavy water	221 MWe	1.8%
Other advanced converters	54 MWe	0.4%
Fast breeders	233 MWe	1.9%

A list of the power plants in operation, under construction or planned in the Community at that date is given in the ANNEX.

For further information please apply to the

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The information and articles published in this Bulletin concern European scientific cooperation. Hence they are not simply confined to reports on the decisions or views of the Commission of the European Communities, but cover the whole field of questions discussed in circles concerned in European cooperation in science and technology.

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** Mr PIETRO CAPRIOGLIO, DIRECTOR-GENERAL OF THE COMMUNITY'S JOINT RESEARCH CENTRE, had a meeting in The Hague on 6 April 1971 with Mr Van Sink, Director-General for Energy Supply at the Dutch Ministry of Economic Affairs, who was accompanied by several senior officials. Mr Caprioglio outlined to questioners his intentions regarding the drawing-up of the Joint Research Centre's future research programmes. For their part, the Dutch government representatives stated that in the very near future the Dutch members of the General Consultative Committee of the Joint Research Centre would be appointed; this Committee is to be the key organization in the formulation of joint research programmes, acting as a liaison between the representatives of the governments, industry and science in the Community member countries and those of the Joint Research Centre.

One of Mr Caprioglio's intentions is to continue his talks with the governmental authorities of the other Community member countries during the coming weeks.

** In reply to a written question by Mr Vredeling, a Dutch member of the European Parliament, concerning the CREATION OF A EUROPEAN URANIUM ENRICHMENT CAPABILITY, the Commission of the European Communities draws attention to the fact that on 16 December 1970 a special group was set up within the Consultative Committee on Nuclear Research (see "Research and Technology" No. 80) to "collect the necessary technical and economic data concerning the creation of enrichment facilities in the Community; the group will be required to submit as soon as possible to the Council and the Commission a report analysing and evaluating the data acquired, in order

to enable the Council to adopt a standpoint concerning the Commission's proposals" (see "Research and Technology" No. 18). It was arranged (see "Research and Technology" No. 36) that the Council should come to a decision on these proposals before the end of 1971.

The Commission further states that the governments of West Germany and the Netherlands submitted to the Commission at the end of December 1969 the draft agreement for tripartite cooperation which they had negotiated with the United Kingdom in the field of isotope separation. During January and February 1970, exchanges of letters took place in which these governments expressed in particular the wish that a link should be set up between such tripartite cooperation and whatever measures the Community might adopt in the field of uranium enrichment. The Commission, for its part, reaffirmed to the two governments concerned the importance it attached to the integration of such tripartite cooperation in a Community programme.

** At a meeting in Munich on 1-2 April 1971 sponsored by the Commission of the European Communities, some thirty experts from the Community countries carried out a critical analysis of the applications of PERSONNEL DOSIMETRY in RADIATION PROTECTION. Emphasizing the present shortcomings in the organization of monitoring of working environments exposed to radiations, and in the interpretation of the measuring results, they examined the status of the work in this field and drew up the research programme for 1971. The experts urged that collaboration between the competent institutes of the countries concerned and the competent departments of the Commission of the European Communities be further intensified in order to arrive at a common doctrine in personnel dosimetry.

** The first international conference on STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, organized jointly by the Bundesanstalt für Materialprüfung and the Commission of the European Communities, will be held in Berlin on 20-24 September 1971. Nearly a thousand engineers and researchers are expected to participate in the discussions, which will be concerned with the problems inherent in fundamental research and technological development in this sector.

** SCIENTIFIC AND TECHNICAL REPORTS recently published by the Commission of the European Communities include the following:

- Kernkraftwerk Gundremmingen (KRB) - Jahresbericht 1969 (Gundremmingen (KRB) nuclear power plant - Annual report 1969) (No. EUR 4564 d - 64 pages - 85 BF - available in German);

- Kernkraftwerk Obrigheim - Jahresbericht 1969 (Obrigheim nuclear power plant - Annual report 1969) (No. EUR 4565 d - 70 pages - 100 BF - available in German);

- Centrale nucléaire des Ardennes - Rapport annuel 1969 (Ardennes nuclear power plant - Annual report 1969) (No. EUR 4566 f - 30 pages - 50 BF - available in French);

- Centrale elettronucleare di Latina - Relazione annuale 1969 (Latina nuclear power plant - Annual report 1969) (No. EUR 4596 i - 42 pages - 60 BF - available in Italian);

- Convenzione EUREX EURATOM - CNEN - Relazione annuale 1969 (Eurex Euratom - CNEN agreement - Annual report 1969) (No. EUR 4604 i - 22 pages - 40 BF - available in Italian).

These reports can be obtained from the Sales Office for Official Publications of the European Communities, 37 rue Glesener, Luxembourg.

** The second MASS SPECTROMETRY CONGRESS sponsored by the Italian Chemical Society will be held at the Ispra Establishment of the Joint Research Centre on 1-3 September 1971. It will be attended by over a hundred experts in this field.

Net electrical capacity of nuclear power plants in service, under construction or planned in the Community at 10 April 1971

	Country	In service MWe	Under const. MWe	Planned MWe
a) PROVEN-TYPE REACTORS				
Gas/graphite				
Chinon 1 (EDF-1)	F	70	-	-
Chinon 2 (EDF-2)	F	200	-	-
Chinon 3 (EDF-3)	F	480	-	-
St. Laurent 1 (EDF-4)	F	480	-	-
St Laurent 2	F	-	515	-
Bugey 1 (St. Vulbas)	F	-	540	-
G-2 Marcoule	F	40	-	-
G-3 Marcoule	F	40	-	-
ENEL (Latina)	I	200	-	-
Boiling water				
KRB (Gundremmingen)	D	237	-	-
KWL (Lingen)[1]	D	174	-	-
VAK (Kahl)	D	15	-	-
ENEL (Garigliano)	I	150	-	-
GKN (Doodewaard)	N	52	-	-
KWW (Würgassen, Weser)	D	-	640	-
KKB (Brunsbüttel)	D	-	770	-
ENEL 4 (Caorso)	I	-	783	-
KBE (Badenw/EVS) Philippsburg 1	D	-	864	-
Fessenheim 2 (Rhine)	F	-	-	890
KKP (Badenw/EVS) Philippsburg 2	D	-	-	860
GKN Neckarwestheim	D	-	-	770
Pressurized water				
KWO (Obrigheim)	D	328	-	-
SENA (Chooz)[2]	F	266	-	-
ENEL (Trino Vercellese)	I	257	-	-
BR-3 (Mol)	B	10	-	-
KKS (Stadersand Elbe)	D	-	630	-
SEMO (Tihange s/Meuse)[3]	B	-	870	-
Centre Nucl. de Doel (Doel s/Escaut)	B	-	780	-
PZEM (Borssele)	N	-	450	-
RWE (Biblis s/Rhine)	D	-	1,150	-
Fessenheim 1 (Rhine)	F	-	890	-
NWK + Preussenelektra (Nordenham)	D	-	-	1,300

[1] Not including fuel-oil superheat.

[2] Franco-Belgian power plant (50/50).

[3] With 50% French participation (EDF).

	Country	In service MWe	Under const. MWe	Planned MWe
b) ADVANCED CONVERTERS				
Heavy water				
MZFR (Karlsruhe)	D	51	-	-
KKN (Niederaichbach)	D	-	100	-
EL-4 (Monts d'Arrée)	F	70	-	-
Cirene (Latina)	I	-	-	32
High temperature				
HKG (Schmehausen)	D	-	-	308
AVR (Jülich)	D	13	-	-
KWSH (Schleswig-Holstein)	D	-	-	22
Sodium/zirconium hydroxide				
KNK (Karlsruhe)	D	-	19	-
Nuclear superheat				
HDR (Grosswelzheim)	D	22	-	-
c) FAST BREEDERS				
Phenix (Marcoule)	F	-	233	-
SNR (Kalkar)[4]	D	-	-	300
d) TYPE NOT YET DETERMINED				
GKB Isaramperw/Bayernw (Niederaichbach)	D	-	-	800
Bugey 2 (EDF)	F	-	-	850
Bugey 3 (EDF)	F	-	-	850
GrossKraftW. Franken	D	-	-	1,000
RWE (Koblenz)	D	-	-	1,115
BASF (Ludwigshafen)	D	-	-	480
TOTAL		3,155	9,234	9,577
GRAND TOTAL		21,966		

[4]German/Benelux joint project.