II

(Acts whose publication is not obligatory)

COUNCIL

COUNCIL DECISION

of 22 August 1975

adopting an energy research and development programme

(75/510/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 235 thereof;

Having regard to the proposal from the Commission;

Having regard to the Opinion of the European Parliament (1);

Having regard to the Opinion of the Economic and Social Committee;

Whereas Article 2 of the Treaty assigns to the Community the task of promoting throughout the Community a harmonious development of economic activities, a continuous and balanced expansion and an accelerated raising of the standard of living; whereas Article 3 of that Treaty defines the aims of Community action to these ends;

Whereas energy research and development is an important factor in achieving these objectives;

Whereas the research and development activities which form the subject of the Decision therefore seem necessary in order to achieve certain Community objectives within the functioning of the common market;

Whereas the Treaty has not provided the powers necessary for these purposes;

Whereas the Council adopted the resolution concerning Community energy policy objectives for 1985 (2) on 17 December 1974;

Whereas the Council adopted the resolution on an initial outline programme of the European Communities in the field of science and technology (3) on 14 January 1974;

Having regard to the Opinion of the Scientific and Technical Research Committee (CREST),

HAS DECIDED AS FOLLOWS:

Article 1

An energy research and development programme for the European Economic Community is hereby adopted in the form set out in the Annex hereto for a four-year period starting on 1 July 1975. The Annex forms an integral part of this Decision.

(1) OJ No C 76, 7. 4. 1975, p. 28.

(2) OJ No C 153, 9. 7. 1975, p. 1.
(3) OJ No C 7, 29. 1. 1974, p. 6

Article 2

The upper limit for expenditure commitments and for staff necessary for the implementation of this programme shall be 59 million units of account and 27 employees respectively for the duration of the programme.

The unit of account is defined in Article 10 of the Financial Regulation of 25 April 1973 [1] applicable to the general budget of the European Communities.

Article 3

The Commission shall be responsible for the implementation of this programme which shall be implemented in two stages. The first stage shall extend from 1 July 1975 until 31 December 1976 with an appropriation of 12 million units of account; the second shall extend from 1 January 1977 until 30 June 1979 with an appropriation of 47 million units of account. In the implementation of this programme the Commission shall be assisted by advisory committees on programme management set up for this purpose and shall keep the Scientific and Technical Research Committee (CREST) informed.

Article 4

The programme shall be reviewed at the end of the first year, after the Scientific and Technical Research Committee (CREST) has delivered its Opinion, so that any amendments to the programme resulting from that review can be implemented by the beginning of 1977 at the latest.

As long as there has been no decision to review the programme, the projects undertaken will be continued within the limits of the resources made available.

Article 5

The information resulting from the implementation of the programme defined in the Annex shall be disseminated in accordance with Council Regulation (EEC) No 2380/74 [2] of 17 September 1974 adopting provisions for the dissemination of information relating to research programmes for the European Economic Community.

Done at Brussels, 22 August 1975.

For the Council

The President

M. RUMOR

---

[1] OJ No L 116, 1. 5. 1973, p. 1.

[2] OJ No L 255, 20. 9. 1974, p. 1.

ANNEX

INDIRECT ACTION

ENERGY RESEARCH AND DEVELOPMENT PROGRAMME

The aims of the programme are as follows:

1. ENERGY CONSERVATION

A maximum of 11·380 million units of account and a staff of six shall be assigned to this objective.

This programme covers the following sectors:

— improved insulation of buildings,
— use of heat pumps,
— urban transport,
— residual heat recovery,
— materials recyling,
— production of energy from waste,
— evaluation of the specific energy consumption of equipment, processes and techniques,
— development of methods for storage of secondary energy.

This work shall be carried out under contract.

2. PRODUCTION AND UTILIZATION OF HYDROGEN

A maximum of 13·240 million units of account and a staff of four shall be assigned to this objective.

This programme comprises the following projects:

Project A: Thermochemical production of hydrogen

Action:
1. Research into chemical and electrochemical reaction cycles of high potential efficiency in the conversion of heat energy into hydrogen energy;
2. Practical experiments on promising cycles.

Project B: Electrolytic production of hydrogen

Action:
1. Improvement of existing electrolytic production technology;
2. Study of the viability and economics of high-temperature and high-pressure electrolysis.

Project C: Utilization of hydrogen

Action:
1. Analysis of the potential applicability of hydrogen and of synthetic hydrogen-based fuels;
2. Development of safety specifications for the handling of hydrogen;
3. Improvement of the small-scale storage of hydrogen.

This work shall be carried out under contract.

3. SOLAR ENERGY

A maximum of 17·500 million units of account and a staff of six shall be assigned to this objective.

This programme comprises the following projects:

Project A: Solar heat collectors and their application to dwellings

Action:
1. Low-temperature use of solar energy for heating and cooling buildings;
2. Study of plane surface collectors;
3. Pilot applications to dwellings for domestic use;

Project B: Self-contained generating sets for the production of mechanical and/or electrical power

Action:
1. The use in medium and high temperature areas of solar heat to produce mechanical and/or electrical power;
2. Improvement of low-power groups (1 + 10 kw);
3. Pilot installation of 1 MWe.

Project C: Photovoltaic conversion

Action:
1. Development of alternative cells and improvement of existing cells;
2. Feasibility study on new concepts;
3. New methods of preparing semiconductor materials;
4. Silicon thin film;
5. Automation of panel production.

Project D: Photochemical, photoelectrochemical and photobiological processes

Action:
1. Basic studies on photochemical, photoelectrochemical and photobiological systems.

Project E: Photosynthetic production of organic matter

Action:
1. Choice and development of the most suitable energy crops for the different regions of Europe.

Project F: Data network relating to solar radiation

Action:
1. Collection, standardization and distribution of comprehensive data on number of hours of sunshine throughout the Community;
2. Definition of the implications of the large-scale use of solar energy.

This work shall be carried out under contract.

4. GEOTHERMAL ENERGY

A maximum of 13·000 million units of account and a staff of four shall be assigned to this objective.

This programme comprises the following projects:

Project A: Acquisition and collation of existing and new geothermal data

Action:
1. Collation of existing geothermal data;
2. Acquisition and collation of new additional geothermal data.

Project B: Improvement of methods of exploration

Action:
1. Improvement and/or adaptation of existing prospecting methods to specific geothermal requirements and development of new methods of prospecting and exploration.

Project C: Sources of hot water (low enthalpy)

Action:
1. Compilation of geothermal models in regions concerned;
2. Full-scale experimental verification of theoretical models (operation);
3. Utilization tests on sources of hot water for district and agricultural heating.

Project D: Steam sources (high enthalpy) and hot rocks

Action:
1. Construction of geothermal models in the areas concerned;
2. Improvement of measuring and drilling techniques for experimental work at high temperatures;
3. Stimulation of hot rocks to increase their permeability and extraction of heat from hot rocks.

Project E: Training of specialists

Action:
1. Training courses and detachments.

This work shall be carried out under contract.

5. SYSTEMS ANALYSIS: DEVELOPMENT OF MODELS

A maximum of 3·880 million units of account and a staff of seven shall be assigned to this objective.

This programme comprises the following action:

Action:
1. Static models (short term);
2. Dynamic sector models (medium/long term).

This work shall be carried out under contract.