

ARCHIVES HISTORIQUES DE LA COMMISSION

COLLECTION RELIEE DES
DOCUMENTS "COM"

COM (78)672

Vol. 1978/0256

Disclaimer

Conformément au règlement (CEE, Euratom) n° 354/83 du Conseil du 1er février 1983 concernant l'ouverture au public des archives historiques de la Communauté économique européenne et de la Communauté européenne de l'énergie atomique (JO L 43 du 15.2.1983, p. 1), tel que modifié par le règlement (CE, Euratom) n° 1700/2003 du 22 septembre 2003 (JO L 243 du 27.9.2003, p. 1), ce dossier est ouvert au public. Le cas échéant, les documents classifiés présents dans ce dossier ont été déclassifiés conformément à l'article 5 dudit règlement.

In accordance with Council Regulation (EEC, Euratom) No 354/83 of 1 February 1983 concerning the opening to the public of the historical archives of the European Economic Community and the European Atomic Energy Community (OJ L 43, 15.2.1983, p. 1), as amended by Regulation (EC, Euratom) No 1700/2003 of 22 September 2003 (OJ L 243, 27.9.2003, p. 1), this file is open to the public. Where necessary, classified documents in this file have been declassified in conformity with Article 5 of the aforementioned regulation.

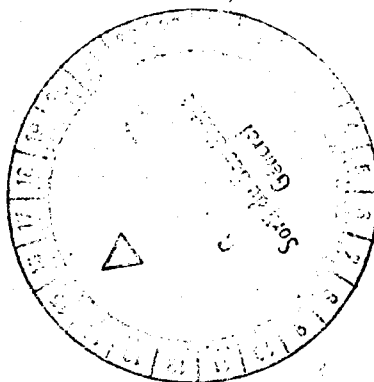
In Übereinstimmung mit der Verordnung (EWG, Euratom) Nr. 354/83 des Rates vom 1. Februar 1983 über die Freigabe der historischen Archive der Europäischen Wirtschaftsgemeinschaft und der Europäischen Atomgemeinschaft (ABl. L 43 vom 15.2.1983, S. 1), geändert durch die Verordnung (EG, Euratom) Nr. 1700/2003 vom 22. September 2003 (ABl. L 243 vom 27.9.2003, S. 1), ist diese Datei der Öffentlichkeit zugänglich. Soweit erforderlich, wurden die Verschlussachen in dieser Datei in Übereinstimmung mit Artikel 5 der genannten Verordnung freigegeben.

COMMISSION OF THE EUROPEAN COMMUNITIES

COM(78) 672 final

Brussels, 4 December 1978

DEMONSTRATION PROJECTS IN THE FIELD OF ENERGY-SAVING AND EXPLOITATION OF NEW ENERGY SOURCES



COM(78) 672 final

**DEMONSTRATION PROJECTS IN THE FIELD OF ENERGY-SAVING
AND EXPLOITATION OF NEW ENERGY SOURCES**

Document Nr 1 : Commission decision on the granting of financial support for demonstration projects in the field of energy-saving.

Annex : Financial support for demonstration projects in the field of energy-saving

Explanatory memorandum

document Nr 2 : Commission decision on the granting of financial support for demonstration projects in the field of geothermal energy.

Annex : Support for demonstration projects in the geothermal energy sector

Explanatory memorandum

Document Nr 3 : Commission decision on the granting of financial support for demonstration projects in the field of solar energy.

Annex : List of projects elected

Explanatory memorandum

Document Nr 4 : Commission decision on the granting of financial support for demonstration projects in the field of liquefaction and gasification of solid fuel.

Annex : Support for demonstration projects in the field of liquefaction and gasification of solid fuels

Explanatory memorandum

Document Nr 5 : Proposed Council regulation on the application of Council regulation 1302/78 concerning the grant of financial support to demonstration projects in the field of alternative energy sources.

Document Nr 6 : Proposed Council regulation on the application of Council regulation 1303/78 concerning the grant of financial support to demonstration projects in the field of energy saving.

Document Nr 1

COMMISSION DECISION

on the granting of financial support
for demonstration projects in the
field of energy-saving

3

EXPLANATORY MEMORANDUM

1. On 12 June 1978 the Council of the European Communities adopted Regulation (EEC) No 1303/78 on the granting of financial support for demonstration projects in the field of energy-saving¹. The aim of this support is to promote the implementation of demonstration projects relating to the creation of installations using full-scale versions of new equipment or products which will enable significant energy savings to be achieved.

2. In accordance with the provisions of the Regulation, the Commission published a call for interested parties in the field of energy savings to submit applications for support by 30 September at the latest².

3. A total of 326 proposals were received by the Commission, in response to its call for submissions, for projects covering virtually all sectors of energy consumption whose investment will enable energy savings to be achieved.

4. Commission departments which are responsible for examining the applications for support have undertaken a preliminary study of the projects to check that they are compatible with the provisions of Regulation (EEC) No 1303/78.

5. When adopting the Regulation, the Council agreed that the initial financing decisions should be taken before the end of the year. In view of this extremely short deadline and the impossibility of making a thorough examination of all the applications received, it seemed more feasible, initially, to study a small number of projects on which a rapid decision might be taken and to ensure that only some of the available appropriations are committed for the first financing decisions - so as to avoid prejudicing the choice of other applications. This first set of 38 projects does not include large-scale projects involving individual investment of more than 10 million EUA. By way of example, 25 projects involving investment costs of over 10 million EUA are equivalent to almost 70% of the total investment costs of all the applications received.

¹OJ No L 158/6 of 16 June 1978.

²OJ No C 158/2 of 4 July 1978.

6. In accordance with Article 5(2) of the abovementioned Regulation, the departments of the Commission then consulted the Advisory Committee on the Management of Demonstration Projects composed of representatives of the Member States on 14-15 November 1978 on the first batch of 38 projects.

7. In view of the main requirement which each project must fulfil - the possibility that its achievement will involve a significant improvement in the efficiency with which energy is used and will allow considerable energy savings - the Commission departments, in accordance with the provisions of Regulation No 1303/78, have adopted the following assessment criteria:

- (a) the extent to which the preliminary studies and research show potential industrial and commercial viability and limit the technical and economic risks of the project;
- (b) the nature and extent of the technical and economic risks of the project;
- (c) the extent to which achievement of the project applies new techniques, processes or products or contemplates a new application of existing techniques, processes or products likely to encourage the completion of other installations of the same type in the Community;
- (d) potential energy savings;
- (e) economic viability of the project, sources of finance and the technical and financial capacities of the project directors;
- (f) prospects of widespread application of the technique, process or product and the benefits which could result for the Community;
- (g) type of know-how inherent in the achievement of the project which could be divulged and the means proposed for reporting and disseminating the results of the demonstration;
- (h) as regards the domestic sector in particular, the widely varying conditions of operation (climatic factors, social characteristics).

8. Additional particulars or information were required for 22 of the projects before a final decision could be taken.

The number of projects likely to qualify for financial support thus amounts to sixteen; the corresponding investments for carrying out these projects between 1979 and 1981 amount to approximately 16 m EUA. These sixteen projects should involve annual energy savings of 32,000 toe, i.e. 500 EUA/toe a year. If these demonstration projects prove successful, they are expected to be widely disseminated in the Community. The dissemination factor, which varies according to the projects and the sectors, cannot be quantified at present, especially as there is no comparable experience at Community level.

9. The departments of the Commission have sometimes reduced the amounts of the investments proposed for support when the proposed costs appear out of proportion with the objectives pursued (e.g. number of models to be covered by the demonstration) or do not reflect the difference in cost between that of the demonstration and that of a conventional installation.

10. The departments of the Commission consider that the maximum rate of 49% for Community aid provided for by the Regulation should be applied only in exceptional cases and that a normal rate of 40% should be envisaged. A lower rate of support should be given to make allowances either for other large national aids or for the special risks or scale of certain projects.

11. In line with these principles, the support proposed by the departments of the Commission for the sixteen projects amounts to 5,682,250 EUA.

12. The tables in Annex 1 set out the sixteen proposals submitted for adoption by the Commission, together with the amounts of investment, the rates of financial support and the Community aids proposed.

Article 2

The support measures referred to in Article 1 shall be agreed for each project on the basis of the percentages of the actual cost given in the annex as verified and accepted by the Commission and not exceeding the maximum amounts which are also laid down in the annex.

Article 3

This decision is addressed to the persons and enterprises listed in the annex.

Done at Brussels, 29 November 1978

For the Commission
The President

Reference	Financial support for demonstration projects in the field of energy-saving Title, proposer, aim, time table	Total costs			EEC - participation		ANNEX
		national currency/ EUA 2)	%			national currency/EUA 2)	
EE/006	Multiple effect evaporation phosphoric acid plant Windmill Holland, Vlaardingen Steam saving by putting in series two of the three existing evaporators in order to operate them in so-called double effect. app. 30 months	1,750,000 D fl 627,970 EUA	35 %			612,500 219,790 EUA	
EE/008	Heat recovery by heat pipes on milk spray dryers CARBERRY Milk Products Ltd., Ballineen, Cork, Ireland Recovery of heat from a milk dryer exhaust by means of heat pipe and use that heat to preheat the incoming air supply 12 months	118,320 £ 177,960 EUA	40 %			47,330 £ 71,190 EUA	
EE/016	Recuperation of energy in a cloth colouring instal- lation LANEROSSE S.P.A., Schio (VI) Recuperation of cooling water heat and of condensed steam by modification of the circuits 7 months	180,000,000 Lit 166,960 EUA	40 %			72,000,000 Lit 66,780EUA	
EE/028	"RETE" Reggio Emilia Total Energy Consorzio Intercomunale Gas-Aqua Combined heat production with 4-5 diesel engines of 860 Kw each, firing natural gas or fuel oil, for the supply of heat and electricity for a new apartment area 32 months	1,325,000,000 Lit 1,229,000 EUA	40 %			530,000,000 Lit 491,600 EUA	
EE/038	Electric heat pumps (air-air) for 20 houses with gas (LPG) as additional heat source during cold weather periods Soc. Maison Phénix, Paris 18 months	640,000 FF 113,850 EUA	39 %			249,600 FF 44,400 EUA	

EE/046	Diesel engine powered screw compressor heat pump M.A.N., Augsburg - Nürnberg Production of 520 KW of heat at 60°C for heating of workshops and office buildings 18 months	613,000 DM 238,800 EUA	40 %	245,200 DM 99,520 EUA
EE/050	Production of hot gases from coal shists with high ash content Ciment d'Obourg S.A., Mons Use of the hot gases for drying of materials and use of combustion residues for construction materials app. 20 months	97,075,200 FB 2,400,080 EUA	40 %	3,883,010 FB 960,030 UCE
EE/065	Combined heat and power production with dual-fired Diesel engines (3 x 565 Kw) SAVIEM, Suresnes Total energy system, production of electricity and process heat with mixed gas-oil fired Diesel engines 12 months	4,248,888 FF 755,860 EUA	30 %	1,274,670 FF 226,760 EUA
EE/087	Installation of 3 small hydro-plants with a total power of 720 KW on a river with low head water falls Soc. des MOTEURS LEROY SOMER, Angoulême 15 months	2,822,400 FF 502,090 EUA	40 %	1,128,960 FF 200,840 EUA
EE/100	Hot blast booster system for cupolus BRADLEY & FORSTER Ltd., Darlaston Complete use of the heat potential in the stock gas by addition of a cross flow heat exchanger rising the hot blast temperature to 750°C (instead of 580°C in present plants) 11 months	271,410 £ 408,222 EUA	40 %	108,560 £ 163,290 EUA

EE/118	Demonstration of an energy conserving flue gas desulphurization system for power plants Walther & Cie, Köln-Dellbrück 75 MWe - demonstration plant with reheating of flue gases after SO₂-scrubbing and drying of by-product without foreign heat, no liquid and solid wastes, by-product directly usable as fertilizer 16 months	14,500,000 DM 5,648,550 EUA	30 %	4,350,000 DM 1,694,570 EUA
EE/121	Straw firing plant Svendborg Kommune Heat from the straw firing plant will be fed into a district heating system, replacing heat produced in oil fired boilers 12 months	6,480,000 DKr 911,240 EUA	25 %	1,620,000 DKr 227,810 EUA
EE/219	Recovery of residual heat from the hot gases of a glass melting furnace Soc. Bertin & Cie, Plaisir Equipment of a melting furnace with a convection oven for drying and preheating a mixture of granulates and conglomerates (150 t/d) 16 months	5,870,000 FF 1,044,240 EUA	40 %	2,348,000 FF 417,000 EUA
EE/231	Installation and control of new high-efficiency boilers (of the type: Blueflam Breda system 91) of different power levels and under various operating conditions O.T.B.-Officine Termotechniche Breda, Bari 23 months	1.380.000.000 Lit 1.280.000 EUA	40 %	512.000 EUA
EE/301	Recuperation of energy from an electrical collective dish washer machine by heat pump Etablissement Bonnet, Villefranche Use of the heat for heating the washing and cleaning water of the machines and of the washing room 6 months	562,000 FF 99,980 EUA	40 %	224,800 FF 39,990 EUA

EE/323

Lav Energi 1979

SKIVE Kommune

Demonstration of 53 houses and flats each
representing new types of construction,
advanced methods of insulation and heating
systems based on non-oil consuming techniques

app. 36 months

4,385,436 DKr

616,700 EUA

40 %

1,754,170 DKr

246,680 EUA

- 1) Provisional estimates of the Commission
- 2) EUA conversion rates of 1st september 1978.
The amounts in EUA are given for information
purposes.

11

Commission Decision implementing Council Regulation (EEC) N° 1303/78
of 12 June 1978 on the granting of financial support for demonstration
projects in the field of energy-saving¹

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Regulation (EEC) N° 1303/78, and in particular
Article 5, § 2 thereof,

Having consulted the Advisory Committee on the Management of Demonstration
Projects,

Whereas Regulation (EEC) N° 1303/78 provides for the granting of financial support
for demonstration projects allowing a significant improvement in energy efficiency
by making use of new equipment, processes or products,

Whereas it is important to support such projects, particularly if they are
capable of reducing the energy consumption of buildings, encouraging the
recovery of high or low temperature heat in industry, developing methods for
the combined production of heat and power and district heating and developing
new industrial processes,

Whereas financial provisions for this purpose should be made before the end
of 1978 and whereas this Decision does not exhaust the first set of projects
within the meaning of Article 5(2) of Regulation (EEC) N° 1303/78,

HAS ADOPTED THIS DECISION :

Article 1

The demonstration projects referred to in the annex to this decision shall be
granted financial support in the form of a financial contribution
according to regulation (EEC) N° 1303/78 repayable under certain conditions.

¹ OJ L 158 of 16 June 1978

Document No 2

COMMISSION DECISION

on the granting of financial support for demonstration
projects in the field of geothermal energy

1. On 12 June 1978 the Council of the European Communities adopted Regulation (EEC) No. 1302/78⁽¹⁾ on the granting of financial support for projects to exploit alternative energy sources.
This support is intended to encourage demonstration projects for using, amongst other alternative sources, geothermal fluids to heat living, industrial or other premises, to generate electricity, or to provide heat for industrial or agricultural purposes.
2. In implementation of the Regulation, the Commission published⁽²⁾ a call for tenders in the geothermal energy sector, inviting the persons and undertakings interested to submit their support proposal by 30 September 1978 at the latest.
3. In reply to the call for tenders, the Commission received 36 proposals for projects requiring capital expenditure to be made between 1979 and 1983, amounting to nearly 140 million EUA.
4. The departments of the Commission assigned the task of vetting applications for financial support have subjected the projects to a preliminary review of their admissibility in terms of Regulation No. 1302/78.
5. As required by Article 6(2) of the Regulation, the Commission's departments then consulted the Advisory Committee for management of the projects, composed of representatives of the Member States.
6. From these elements and the information provided by the proposers, the competent departments of the Commission have assessed each project with a view to ascertaining the possible support measures, within the criteria conforming to those laid down by the Regulation No. 1302/78 and the Proposal for a Council Implementing Regulation⁽³⁾:

..//..

-
- (1) O.J. No. L 158 of 16 June 1978, p.3.
 - (2) O.J. No. C 153 of 29 June 1978, p.3.
 - (3) Document COM(78)122 final of 31 March 1978

- the extent to which previous research and prospecting demonstrate industrial and commercial soundness of the project and limit its technical and economic risks;
- the extent to which the project uses new techniques or technologies, particularly as regards equipment relating to the exploitation of geothermal fluids, which could be used to encourage the construction of other installations of the same type;
- the potential of the geothermal field involved in the project and the extent to which fulfilment of the project may encourage the exploitation of other geothermal fields in the Community;
- the economics of the project, the sources of finance for the project and the technical and financial potentials of the sponsors of the project;
- the soundness of the project in relation to environmental protection standards;
- the nature of the knowledge inherent to fulfilment of the project which could be divulged and the means of information envisaged.

7. In making their assessment, the Commission's departments bore in mind more especially the fact that certain objectives, priority ones in their view, should be achieved by the projects in question, in particular :

- the exploitation in the Community of geothermal fields in new regions or at geothermal horizons never before exploited;
- the first fulfilments of geothermal demonstration projects in certain Community countries;
- the best use of geothermal energy and its reliability in various fields of utilization.

8. The Commission's departments also felt that support should be ruled out in the case of projects which :

../..

- have a predominant research character or merely aim at carrying out preliminary studies or research;
 - are not coupled with the necessary preliminary information concerning the research stage;
 - concern the exploitation of geothermal fields already known and exploited;
 - give no assurance that, once the geothermal field has been proved, its exploitation would ensue forthwith.
9. To sum up, the number of projects likely to benefit from financial support is 12; the corresponding investments for the implementation of the projects, calculated for 1979 to 1981, amount to nearly 55 million EUA.
10. On these investments or part of these investments, the Commission's departments propose in most cases the following rates of financial support :
- 30% in respect of drilling, half of which is repayable.
If the results obtained from the drilling rule out commercial exploitation of the field, the support is not repayable;
 - 20% in respect of the surface plant relating to the exploitation of the geothermal energy and in respect of the demonstration management, usually entirely repayable.
11. When these principles are applied, the support contemplated by the competent departments of the Commission for the 12 projects selected amounts to 8,103,300 EUA.
12. However, the list of retained projects must not be considered as exhaustive. Since budgetary availability does not permit certain merit-worthy projects to be assisted, the Services of the Commission reserve the possibility of presenting a complementary list during the course of 1979.

COMMISSION DECISION

on the granting of financial support for demonstration
projects in the field of geothermal energy

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Regulation (EEC) No. 1302/78⁽¹⁾, and in particular Article 6, paragraph 2 thereof,

After consultation with the Advisory Committee for management of demonstration projects in the field of geothermal energy,

Whereas Regulation (EEC) No. 1302/78 provides for the granting of financial support for demonstration projects to exploit alternative energy sources in the Community, which by their nature may serve as examples and which prior studies and research have shown to offer prospects of industrial and commercial viability,

Whereas the Commission has submitted to the Council a Proposal for a Council Regulation (EEC)⁽²⁾ implementing Regulation (EEC) No. 1302/78 in the geothermal energy sector,

Whereas it is important to promote demonstration projects particularly likely to make best use of the geothermal fields of the Community,

Whereas this Decision relates to the first series of projects in the meaning of Articles 6(2) and 11 of Council Regulation (EEC) No. 1302/78,

HAS ADOPTED THIS DECISION :

Article 1

1. The demonstration projects listed in the Annex to this Decision shall receive financial support under the provisions of Council Regulation (EEC) No. 1302/78.

./.

(1) O.J. No. L 158 of 16 June 1978, page 3.

(2) Doc. CCK(78)122 final of 31 March 1978.

2. The support shall be granted :

- (a) in respect of drilling in the form of a financial contribution repayable at the rate of 50%. If the results obtained from drilling would rule out commercial exploitation of the field, the support is not repayable;
- (b) in respect of the surface plant connected with exploitation of geothermal energy, and in respect of demonstration management, in the form of a financial contribution usually entirely repayable. . If, as a result of risks particular to some projects, the geothermal field is not exploited or only partly exploited, a proportion of the support, specified according to the nature of the project, is not repayable.

Article 2

The support referred to in Article 1 shall be granted for each project on the basis of the percentages, set out in the Annex, of the actual cost as verified and accepted by the Commission and up to the ceiling of the maximum amounts also specified in the Annex.

Article 3

This Decision is addressed to the persons and enterprises indicated in the Annex.

Done at Brussels, 29 November 1978

For the Commission,

The President

SUPPORT FOR DEMONSTRATION PROJECTS IN THE GEOTHERMAL ENERGY SECTOR

Ref.	Title-Proposer-Objective-Phases-Time-scale	Total cost	Extent of support	Amount of support
GEI I-1	MOFETE BOREHOLES 1 and 2 AGIP The first stage of the project is aimed at the exploitation of the Mofete geothermal field, near Naples, for the purpose of producing electricity a) exploration : - drilling of 2 wells; - end of 1978 to mid-1979.	2.900.000.000 Lit 2.689.900 E.U.A.	30% for the drillings, half of which is repayable	870.000.000 Lit 807.000 E.U.A.
GEI I-2	METANOPOLE AGIP/ENAM Exploitation of a geothermal source to provide heating for an area in South Milan, heated at present by a central oil-fired heating system a) exploration : - drilling of 2 wells, production and reinjection; - January 1979 - January 1980; b) utilization : - surface equipment; - January 1979 - July 1981.	4.326.000.000 Lit 4.012.600 E.U.A.	30% for drilling, half of which is repayable; and 20% for surface equipment relating to geothermal exploitation, both repayable in full.	820.000.000 Lit 761.400 E.U.A.
GEI I-4	CESSANO 1 ENEL Exploitation of geothermal fluids for the production of electricity and the extraction of mineral salts a) exploration : - 2 boreholes, production tests, simulated 1-MW pilot installation; - January 1979 - June 1980; b) utilization : - chemical plant, 3.5 MW unit, on demonstration-type management; - June 1980 - December 1982.	0.010.000.000 Lit 9.234.800 E.U.A.	30% for drilling, half of which is repayable	1.014.000.000 Lit 940.600 E.U.A.

Conversion rate to E.U.A. as at 1 September 1973 - Amounts in E.U.A. are shown for indication only.

SUPPORT FOR DIVERSIFICATION PROJECTS IN THE GEOTHERMAL ENERGY SECTOR

Ref.	Title-Proposer-Objective-Phases-Time-scale	Total cost	Extent of support	Amount of support
GEO DK-1	AARS Dansk Olie og Naturgas A/S Exploitation of a geothermal source for the heating of the town of Aars, heated at present by district heating a) exploration : - studies, production and reinjection drilling; - 1979; b) utilization : - surface equipment; - (1980 - 81).	39.000.000 Dkr 5.456.200 E.U.A.	30% for drilling, half of which is repayable; and 20% for surface equipment relating to geothermal exploitation, both repayable in full.	3.670.000 Dkr 1.212.000 E.U.A.
GEO B-2	HOOGSTRAATEN Gewestelijke Ontwikkelingsmaatschappij, Antwerp First stage of a project aimed at employing geothermal energy to heat new and existing hot-houses near Antwerp a) exploration : - studies, production drilling; - 1979.	72.255.000 FB 1.736.400 E.U.A.	30% for drilling, half of which is repayable.	19.000.000 FB 445.000 E.U.A.
GEO NL-1	ROTTERDAM Centrum voor Energievraagstukken TWO First stage of a project aimed at employing geothermal energy for space heating in a South Rotterdam area a) exploration : - studies, seismic survey and drilling (production and reinjection); feasibility studies; - 1979 - 1983.	15.650.000 Hfl 5.615.800 E.U.A.	30% for drilling, half of which is repayable.	1.890.000 Hfl 678.200 E.U.A.

Conversion rate to E.U.A. as at 1 September 1978 - Amounts in E.U.A. are shown for indication only.

SUPPORT FOR DEMONSTRATION PROJECTS IN THE GEOTHERMAL ENERGY SECTOR

Ref.	Title-Proposer-Objective-Phases-Time-scale	Total cost	Extent of support	Amount of support
GEO F-1	CERGY-PUISEUX Etablissement public d'aménagement de la ville nouvelle de CERGY-POISSONNIER Exploitation of a geothermal source for heating purposes in a new town to the north of Paris a) exploration : - studies, drilling (production and reinjection); - 1979; b) utilization : - surface equipment and demonstration-type management; - 1980 - mid-1981.	28.223.000 FF 5.021.600 E.U.A.	30% for production drilling, half of which is repayable.	2.970.000 FF 529.300 E.U.A.
GEO F-2	MELLERAY Association syndicale libre des propriétaires de Melleray Exploitation of a geothermal source for the heating of existing hothouses near Orléans a) exploration : - drilling (production and reinjection); - 1979; b) utilization : - surface equipment and demonstration-type management; - 1980.	14.545.000 FF 2.597.500 E.U.A.	30% for drilling, half of which is repayable; and 20% for surface equipment relating to geothermal exploitation and for demonstration management both repayable in full.	3.899.000 FF 693.600 E.U.A.
GEO F-4	JONZAC Maire de Jonzac Exploitation of a geothermal source in the Basin of Aquitaine for the heating of dwellings and tertiary equipment a) exploration : - production drilling; - June 1979 - June 1980. b) utilization : - surface equipment; - 1980 - 81.	16.306.000 FF 2.900.300 E.U.A.	30% for drilling, half of which is repayable.	1.327.000 FF 248.500 E.U.A.

Conversion rate to E.U.A. as at 1 September 1978 - Amounts in E.U.A. are shown for indication only.

SUPPORT FOR DEMONSTRATION PROJECTS IN THE GEOTHERMAL ENERGY SECTOR

Annex

- 4 -

Ref.	Title-Proposer-Objective-Phases-Time-scale	Total cost	Extent of support	Amount of support
GEX F-5	CLERMONT-FERRAND Société d'économie mixte pour l'étude et la réalisation du projet géothermique de la Ville de Clermont-Ferrand Exploitation of a geothermal source in Limagne for the heating of existing and planned dwellings and tertiary installations a) exploration : - drilling (production and reinjection); - 1979; b) utilization : - surface equipment; - 1980 - 81.	23.500.000 FF 4.120.500 E.U.A.	20% for drilling, half of which is repayable.	2.400.000 FF 427.000 E.U.A.
GEO F-10	STRASBOURG SOGALMIG Exploitation of a geothermal source for the heating of apartment buildings and existing tertiary installations near Strasbourg a) exploration : - drilling (production and reinjection); - 1979; b) utilization : - surface equipment and demonstration-type management; - (-)	31.797.000 FF 5.656.500 E.U.A.	30% for drilling, half of which is repayable.	5.250.000 FF 934.000 E.U.A.
GEO D-3	FOUSSE RHEIMAN KAM/WALTER Exploitation of the geothermal sources in Isère Graben for the heating of existing towns a) exploration : - studies, exploratory drilling, production drilling; - 1979 - 1980; b) utilization : - surface equipment and demonstration-type management; - 1980 - 81.	13.207.400 DM 5.145.000 E.U.A.	30% for the first part of phase (a), exploratory drilling, half of which is repayable.	1.097.400 DM 427.500 E.U.A.

Conversion rate to E.U.A. as at 1 September 1979 - Amounts in E.U.A. are shown for indication only.

48

Document Nr 3

COMMISSION DECISION

on the granting of financial support for
demonstration projects in the field of solar energy

EXPLANATORY MEMORANDUM

1. The Council of the European Communities adopted on 12 June 1978 Regulation (EEC) No. 1302/78(1) on the granting of financial support for projects to exploit alternative energy sources and, in particular, solar energy.
2. Pursuant to this Regulation the Commission published(2) a call for tenders asking those concerned to send it, by 30 September 1978 at the latest, proposals in the field of solar energy.
3. The Commission received 135 proposals representing a total cost of approximately 108 million u.a.
4. Each of these projects was examined by the Commission's departments more especially concerned (DG XVII, project leader, DG XII and JRC).
5. The Advisory Committee, set up in accordance with the provisions of Article 6 para. 2 of the above-mentioned Regulation, met on 24 and 25 October. Although they considered that a longer period between the receipt of the documents and the holding of the meeting would have been preferable, the Committee members - except for the representatives of the Federal Republic of Germany - felt they were able to discuss to good purpose.

The Committee's work was organised on the basis of an initial selection of 35 projects made by the Directorate-General for Energy with due regard to the examination mentioned in item 1 above; to this selection were added other projects which certain representatives considered to be equally worthwhile. The opinion of the representatives was based on a number of criteria agreed to by common consent :

- 1) value of demonstration
 - 2) impact on energy saving
 - a) at the project level
 - b) size of potential market
 - 3) prospect of technical success
 - 4) prospect of commercial and industrial viability
6. Guided by the appraisals made by each delegation concerning each of the projects considered, the departments drew up an initial list of projects and suggested to the Commission that it give financial support to them. The list comprises 14 projects which are set out further on, appended to the draft decision.

(1) OJ No L 158/3, 16 June 1978.

(2) OJ No C 170/3 "Communication from the Commission on the granting of financial support to projects for developing alternative energy sources - first call for tenders in the solar energy sector".

- 2 -

However, since the 135 projects received in response to the call for tenders were not all discussed by the Committee owing to lack of time, the departments recommended that a second examination be carried out which might lead to a supplementary list that could be adopted during the first quarter of 1979.

7. The expenditure involved in carrying out the 14 projects eligible for financial support amounts to approximately 8.2 million EUA towards which the Commission proposes to give support (to the extent, for most of these projects, of 40%).

This percentage is in conformity with the provisions of Article 5 of Regulation (EEC) No 1302/78 and with those of the proposed application regulation COM(78)54 final, 13 October 1978.

The amount of support proposed by the departments is 3,072,023 EUA^(*). This amount is to be entered under budget heading No 3241 for 1979.

(*) At the rate of 1.9.1978.

33

COMMISSION DECISION

on the granting of financial support for
demonstration projects in the field of solar energy

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Regulation (EEC) No 1302/78⁽¹⁾ and notably Art.6 par. 2

After consultation with the Advisory Committee for management of demonstration projects in the field of solar energy,

Whereas Regulation (EEC) No 1302/78 provides for the granting of financial support for demonstration projects to exploit alternative energy sources in the Community which by their nature may serve as examples and which prior studies and research have shown to offer prospects of industrial and commercial viability;

Whereas the Commission has submitted to the Council a proposal for a regulation⁽²⁾ implementing in the solar energy sector Regulation (EEC) No 1302/78;

Whereas it is important to pursue demonstration projects particularly likely to make best use of solar energy resources;

Whereas this Decision relates to the first series of projects within the meaning of Articles 6 para. 2 and 11 of Council Regulation (EEC) No 1302/78,

HAS ADOPTED THIS DECISION :

Article 1

The demonstration projects listed in the Annex to this Decision shall receive financial support in accordance with Regulation (EEC) 1302/78 in the form of payments repayable under certain conditions. It will be granted subject to approval under the 1979 budget.

(1) C.J. no L 153 of June 16th, 1973, page 3

(2) COM(73) 521 final of Oct. 13th, 1973

Article 2

The support referred to in Article 1 shall be granted for each project on the basis of the percentages, set out in the Annex, of the actual cost as verified and accepted by the Commission and up to the ceiling of the maximum amounts also specified in the Annex.

Article 3

This Decision is addressed to the persons and enterprises listed in the annex.

Done at Brussels, 29 November 1978

For the Commission,

The President

Annex to the decisionLIST OF PROJECTS ELECTED

N° Project Member State	1) Title 2) Responsible 3) Category	Total Cost — (*)	Per- centa- ge of Commu- nity support	Community support — (*)
1) SOL 9 (IT)	1) Multi stage-flash desalina- tion plant with solar energy as the main energy source at Pantelleria island (Sicily) 2) AGIP S.p.A. - P.le Mattei, 1 - Roma (Italia) 3) End Use : Agri-industrial Type : Thermal	LIT 185.000.000 EUA 171.597	40	LIT 74.000.000 EUA 68.639
2) SOL 50 (F)	1) Partly solar energy working distillery 2) Roussillon Alimentaire la Catalane - Centre National de la Recherche Scientifique 3) End Use : Electricity genera- tion Type : Thermalmécanical	FF 10.000.000 EUA 1.778.948	40	FF 4.000.000 EUA 711.579
3) SOL 68 (F)	1) Chauffage solaire et produc- tion d'eau chaude de l'ensem- ble immobilier de Chabrières (Hautes-Alpes) 2) Sté Européenne de Propulsion Tour Roussel-Nobel Cédex n° 3 92080 PARIS LA DEFENSE 3) End Use : Habitat and social Type : Thermal	FF 8.712.000 EUA 1.549.819	30	FF 2.613.600 EUA 464.946
4) SOL 123	1) Toepassing van zonne-energie voor verwarming van tapwater op een mestkalverenbedrijf 2) I.M.A.G. Mansholtlaan 10-12, Wageningen 3) End Use : Agri-industrial Type : Thermal	Gulden 232.000 EUA 83.251	40	Gulden 92.800 EUA 33.300

(*) Taux de conversion au 1.9.78. Les montants en U.C.E. sont donnés à titre informatif.

(*) Rate of conversion as for 1st of September 1978
The amounts in EUA are given by way of example.

5) SOL 2 (Lux)	1) Renovierung des städtischen Schwimmbades. Heizen des Duschwassers mit Sonnenenergie 2) Gemeindeverwaltung der Stadt Esch-Alzette 3) End Use : Habitat and social Type : Thermal	F Lux. 10.970.000 EUA 271.222	34	F Lux. 3.729.800 EUA 92.215
6) SOL 30 (DK)	1) Solvarmeanlaeg Midtfynds Fritidscenter 2) Ringe Kommune - Radhuset - 5750 Ringe 3) End Use : Habitat and social Type : Thermal	DK 2.000.000 EUA 281.247	40	DK 800.000 EUA 112.499
7) SOL 46 (UK)	1) Demonstration of Solar Passive Homes 2) Taylor Woodrow Homes Limited Western House - Western Avenue Ealing - London W5 1EU 3) End Use : Habitat and social Type : Thermal	£ 300.000 EUA 451.223	40	£ 300.000 EUA 180.489
8) SOL 111 (IT)	1) The project relative to renewable energy sources for use in agriculture is entitled "Energy farm" 2) FIAT TRATTORI S.p.A. Via Pico della Mirandola, 72 MODENA 3) End use : agri-industrial Type : thermalmécanical-biomass	LIT 335.000.000 EUA 310.729	40	LIT 134.000.000 EUA 124.292
9) SOL 11 (IT)	1) Impianto solare per condizionamento e riscaldamento del modulo Bar-Snack-Market di aree di servizio autostradali. 2) AGIP S.p.A. - P.le E. Mattei, 1 - Roma (Italia) 3) End Use : Agri-industrial Type : Thermal	LIT 175.000.000 EUA 162.321	40	LIT 70.000.000 EUA 64.928
10) SOL 77	1) Microirrigation par pompage solaire. Cette opération sera réalisée dans une exploitation agricole à Bourriobetgonce (Dépt. Landes). 2) Sté Nat. ELF AQUITAINE 7, rue Nélaton 75739 PARIS CEDEX 15. 3) End Use : Agri industrial Type : Photovoltaic	FF 628.000 EUA 111.718	40	FF 251.200 EUA 44.687

11) SOL 15 (IT)	1) Solar energy plant for the production of heat and refrigeratin in wine processing with particular attention to wine refrigeratin and pasteurization 2) ADEIKAM S.p.A. - Via Giuseppe Piazza, 15 90141 PALERMO 3) End Use : Agri-industrial Type : Thermal	LIT 181.000.000 EUA 167.886	40	LIT 72.400.000 EUA 67.154
12) SOL 17 (IT)	1) 30 Kw photovoltaic converter for heating and cooling generation and for water pumping production to be used in agricultural application 2) OFFICINE GALILEO S.p.A. Head Officer : Via C. Bini, 44 Firenze 3) End Use : Agri-industrial Type : Photovoltaic	LIT 630.000.000 EUA 584.356	40	LIT 252.000.000 EUA 233.742
13) SOL 54 (F)	1) Fluized gas producer (600 KVA) for processing flax by-product 2) Coopérative Agricole Linière du Plessis Beleeville 60330 PLESSIS BELLEVILLE 3) End Use : Agri-industrial Type : Biomass	FF 1.652.000 EUA 293.882	40	FF 660.800 EUA 117.553
14) SOL 100 (Irl)	1) Forestry Biomass energy demonstration project 2) National Board for Science and Technology-Shelbourne House, Shelbourne Road, DUBLIN 4 3) End Use : Electricity generation Type : Biomass	£ 1.256.584 (irl) EUA 1.890.000	40	£ 502.633 EUA 756.000

TOTAL

=====

EUA 8.108.199

=====

EUA 3.072.023

=====

COMMISSION
OF THE
EUROPEAN COMMUNITIES

Commission Decision

on the granting of financial support for demonstration projects
in the field of liquefaction and gasification of solid fuels

EXPLANATORY MEMORANDUM

1. On 12 June 1978 the Council of the European Communities decided on Regulation (EEC) No. 1302/78 (1) on the granting of financial support for projects to exploit alternative energy sources. This support is intended for, among the alternative sources, demonstration projects on the liquefaction and gasification of solid fuels since these projects are aimed at reducing the Community's dependence with regard to energy supply.
2. In application of Article 6 of the Regulation the Commission published a call for tenders (2) inviting interested parties to submit, before 30 September 1978, proposals for support that could be considered in the framework of the first series of projects.
3. In answer to the call for tenders, 14 Community undertakings or institutions presented to the Commission requests for support to carry out 12 demonstration projects whose total cost amount to 267.8 million E.U.A.
4. The competent Commission services, charged with arranging the examination of the requests for support, subjected them to a preliminary examination of their admissibility under the terms of Regulation No. 1302/78.
5. In conformity with the dispositions of Art. § 2 of the above-mentioned Regulation, the Commission's services consulted the Advisory Committee for the management of projects, consisting of representatives of the Member States. In the same context, a Commission inter-service committee was also consulted.

./..

(1) OJ No. L 158 of 16 June 1978
(2) OJ No. C 154 of 30 June 1978

6. On the basis of these activities and of information by the proposers, the Commission's services proceeded to an evaluation of each project with a view to establishing proposals for support and, in conformity with the dispositions of Regulation No. 1302/78, and considering the draft Council Regulation⁽¹⁾, retained the following criteria for evaluation:

- Technological novelty of the project in relation to the current state of the art
- The possibilities for technical realisation of the project and the possibility of success
- The number and magnitude of possible applications of the results of the project
- Security of the project with regard to standards for safety and environmental protection
- Evaluation of the risks of superfluous duplication of effort in relation to techniques already established or under development and of the possibility of collaboration with other projects
- Technical and financial capabilities of those responsible for the project; association of those responsible with industrial partners
- The nature of knowledge related to the carrying out of the project that could be divulged, and the means of information envisaged.

7. In their assessment, the Commission's services took particular account of the fact that certain objectives, which were regarded as priorities, should be achieved by the projects in question, notably:

- Enlargement of the field of liquefaction and gasification of solid fuels
- Enlargement of the range of products obtainable by the liquefaction and gasification of solid fuels in order to achieve a wider substitution of imported energy
- Increase of the thermal efficiency and the productivity of each process

⁽¹⁾ COM(78) 122 final of 31.3.1978

- Reduction of the quantities of solid fuels needed for liquefaction and gasification and hence improved utilization of deposits.
- Reduction of the cost of protecting the environment by utilising solid fuels in the form of gaseous and liquid products
- In the case of underground gasification, the profitable utilization of deposits that can not be exploited economically by currently available means.

8. Moreover, the Commission's services judged that support should not be considered for projects that:

- envisaged only preliminary research or carried no technical risks
- were aimed at developing processes which, although representing technological progress, would utilize only very specific types of solid fuel
- were concerned with complementary developments but did not offer any solution that could cover a future need

9. Following these considerations, the number of projects suitable for financial support amounted to four. The corresponding total cost for the period from 1979 to 1985 was 107 925 000 E.U.A.

./..

10. The Commission's services propose a level of participation of 40% for these projects. The aid is to be considered as a grant that will be repayable if the plant in question is operated commercially.
11. In application of these principles and having regard to the results of the examination, the support envisaged by the Commission for certain phases of the four projects retained, amounts to an estimated total of 15 825 000 E.U.A.

Clearly this relates to a first series of demonstration projects in the field of liquefaction and gasification of solid fuels.

The following phases of the 4 projects in question must be taken into consideration later.

COMMISSION DECISION

on the granting of financial support for demonstration projects
in the field of liquefaction and gasification of solid fuels

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,
Having regard to Council Regulation (EEC) No. 1302/78 (1), and in
particular article 6.2 thereof,

Having consulted the Advisory Committee for the management of demonstration
projects in the field of liquefaction and gasification of solid fuels,

Whereas Regulation (EEC) No. 1302/78 envisages the granting of support
for the carrying out of demonstration projects to exploit alternative
energy sources in the Community which by their nature may serve as examples
and which prior studies and research have shown to offer prospects of
industrial and commercial viability,

Whereas the Commission has presented to the Council a draft Council Regulation
(EEC) (2) applicable in the sector of liquefaction and gasification of
solid fuels of Regulation (EEC) No. 1302/78

Whereas the liquefaction and gasification of solid fuels offer interesting
possibilities for exploitation and need to have available tried and tested
technologies within the desired time,

Whereas the present Decision relates to the first series of projects in
the sense of Articles 6 § 2 and 11 of Regulation (EEC) No. 1302/78

HAS ADOPTED THE PRESENT DECISION

Article 1

1. The demonstration projects featured in the Annexe to the present Decision
shall benefit from financial support under the terms of Regulation
(EEC) No. 1302/78.

(1) OJ No. L 158 of 16 June 1978, page 3

(2) Doc. No. COM(78) 122 final of 31 March 1978

- 2 -

2. The support shall be given in the form of repayable grants to projects on the liquefaction and gasification of solid fuels covering the following phases :

- the development, testing and proving out of pilot or demonstration plants
- the preceding phase and the construction of such plants
- the preceding phases and the design of such plants.

Half the support shall be repayable in cases where the plant is subsequently operated for industrial purposes and proves to be profitable.

Article 2

The support envisaged in Article 1 shall be granted to each project on the basis of the percentages, indicated in the Annexe, of the real cost, verified and accepted by the Commission and subject to the maximum limits specified in the Annexe.

Article 3

The legal personalities and undertakings to whom the present decision is addressed are shown in the Annexe.

Done at Brussels , 29 November 1978

By the Commission

The President,

SUPPORT FOR DEMONSTRATION PROJECTS
in the field of liquefaction and gasification of solid fuels

Ref.	Title, proposers, aims, phases, timing	Total cost	Level of support	Aid
LG 01/4/78	<u>Demonstration of the Shell-Koppers process for the gasification of coal dust under pressure</u> DSAG/SIPM/K-K Construction and operation of a demonstration plant for the gasification of coal dust under pressure (30 bar) Coal input : 150 t/day Output : 270 000 m ³ /day of synthesis gas Construction : 74/78 Operation and modification : 79/81	133 014 000 DM 51 817 000 EUA of which, a first part of the 2nd phase is: 27 850 000 DM 10 845 000 EUA	No aid for the almost-completed construction phase (Total cost 75 831 000 DM, or 29 749 000 EUA) 40 % for the phase "Operation and perfection" (Total cost 57 183 000 DM, or 22 276 000 EUA) of which a first part is envisaged as a subsidy at present	11 140 900 DM 4 340 000 EUA
LG 02/1/78	<u>Belgo-German experiment on underground gasification</u> INIEX/KFA First large-scale test of a new process for underground gasification, characterised by alternation of pressure (20 - 60 bar) of the gasifying medium (air and oxygen) and by the great depth of the deposit to be gasified. It is planned to produce a gas of medium calorific value that could be used in a power station with a gas turbine 3 borings, and gasification : 79/81 3 supplementary borings : 82/83 Gasification of a second seam : 81/82	1 137 000 000 FB 28 283 000 EUA of which, for the first phase: 550 000 000 FB 13 599 000 EUA	1st phase : 40 %, non repayable only phase for which a subsidy is envisaged at present	220 000 000 FB 5 440 000 EUA

Ref.	Title, proposers, aims, phases, timing	Total cost	Level of support	Aid
LG 02/2/78	<u>Deep underground gasification of coal</u> GECS/BRGM Work complementary to project LG/02/1/78 (linking between boreholes in various seams, and the thermo- dynamics of the system) Geology, petrography : 79/80 Linking between borings : 79/82 Gasification processes : 80/82 Economic studies : 81/82	30 000 000 FF 5 337 000 EUA of which, for the first phases: 19 000 000 FF 3 381 000 EUA	40 % for all phases non-repayable the first phase (linking and geology) is the only phase for which a subsidy is envisaged at present	7 600 000 FF 1 352 000 EUA
LG 03/1/78	<u>Pilot installation for extraction by supercritical gases</u> NCB Design, construction and operation of a pilot plant (1 t/hr. of coal) to produce liquid products from coal by extraction under supercritical conditions (200 atm., 450°C). Subsequent distillation of the products to obtain fuels for vehicles after refining, or raw materials for the chemical industry General design : 78/80 Construction : 80/82 Commissioning and operation : 82/85	14 800 000 £ 22 194 000 EUA of which, for phases 1 and 2 7 800 000 £ 11 732 000 EUA	Phase 1 : 40 %, non-repayable Phase 2 : 40 %, repayable if installation operated industrially The subsidy is only envisaged for phases 1 and 2 at present	3 120 000 £ 4 693 000 EUA

Rates of conversion in E.U.A. : 1 September 1978

The amounts in E.U.A. are
given by way of information

TOTAL

15 825 000 E.U.A.

ABREVIATIONS

DSAG	Deutsche Shell AG, Hamburg
SIPM	Shell International Petroleum Maatschappij BV, Den Haag
K-K	Krupp-Koppers GmbH, Essen
INIEK	Institut National des Industries Extractives, Liège
KFA	Kernforschungsanlage Jülich GmbH, Jülich
GECS	Groupe d'Etudes de la Gazéification souterraine (Gaz de France, Charbonnages de France, Institut Français du Pétrole), Paris
BRGM	Bureau de Recherches Géologiques et Minières (Services géologique national), Orléans
NCB	National Coal Board, London

Proposed Council regulation on the application
of Council regulation 1302/78 concerning the grant of financial support
to demonstration projects in the field of alternative energy sources

The Council of the European Communities

Having regard to the treaty establishing the European Economic Community

Having regard to Council Regulation 1302/78 and particularly Article 11 thereof

Having regard to the Commission's proposal

Whereas the Council has adopted the above mentioned regulation on measures of financial support to demonstration projects in the field of alternative energy sources

Whereas this regulation foresees the adoption by the Council of measures of application concerning the financial amounts to be devoted to the said support

Whereas therefore there is a need to adopt the said arrangements

HAS ADOPTED THIS REGULATION

Sole Article

The amounts of aid to be given under regulation 1302/78 are to be inscribed in the general budget of the European Communities.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels,

For the Council

The President

Proposed Council regulation on the application
of Council regulation 1303/78 concerning the grant of financial
support to demonstration projects in the field of energy saving

The Council of the European Communities,

Having regard to the treaty establishing the European Economic Community

Having regard to Council Regulation 1303/78 and particularly Article 10 thereof

Having regard to the Commission's proposal

Whereas the Council has adopted the above mentioned regulation on measures
of financial support to demonstration projects in the field of energy saving

Whereas this regulation foresees the adoption by the Council of measures of appli-
cation concerning the financial amounts to be devoted to the said support

Whereas therefore there is a need to adopt the said arrangements

HAS ADOPTED THIS REGULATION

Sole Article

The amounts of aid to be given under regulation 1303/78 are to be inscribed in
the general budget of the European Communities.

This Regulation shall be binding in its entirety and directly applicable in
all Member States.

Done at Brussels,

For the Council

The President