

NEWSLETTER

LIBRARY

JULY 1980

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from the Department for Scientific and Technical Communication

(beginning No 1, July 1980...)

NEW INFORMATION TECHNOLOGIES

1. Symposium on the impact of new technologies on publishing
(Luxembourg — 6 and 7 November 1979)

The objective of this symposium was first to review briefly the new technologies which are or will be available soon to facilitate the publishing process. Its second, and more important, aim was to look as closely as possible not only at the opportunities opened up by the adoption of these new technologies but also at the potential dangers involved.

Representatives of all interests were present because one of the organisers' aims was to make each of the partners involved in the activity known as publishing, namely publishers, authors, editors, referees, booksellers, data-base producers and "spinners", librarians, etc. explain their point of view to the others.

The developments which are most likely to affect scientists are the improvement in word-processing technology and the growing efficiency of telecommunication networks.

We will be soon entering the age where minicomputers will be available at reasonable prices, offering a text entry and correction (word-processing) facility, a screen showing the text being generated, a relatively large memory, a telecommunications link and a photocomposer as an optional extra. With this sort of equipment around, the chores of authors, referees and editors could be considerably reduced. Moreover the spread of text telecommunication facilities could be beneficial to the informal "preprint" evaluation process.

There was much controversy about the chances of electronic journals becoming a reality. The conclusion was that for some purposes, paper would admittedly remain a suitable medium but that the larger publishers would probably be tempted to try out electronic dissemination, particularly in the case of highly-specialised journals.

Proceedings of the Symposium

EUR 6830 DE, EN, FR ISBN 3-598-10127-9 (DE)

3-598-10128-7 (EN)

3-598-10129-5 (FR)

price DM 28.—

Order from: SAUR Verlag, Postfach 711009, D-8000 München 71

2. Viewdata-based electronic journals

VIDEOTEX is the generic name used for electronic systems that use a modified TV set to display computer-based information.

Interactive systems using the TV set and the telephone lines are called VIEWDATA. Broadcast services are called TELETEXT.

Brand names exist in different countries for Viewdata: PRESTEL in the U.K. BILDSCHIRMTEXT in the Federal Republic of Germany TELETEL in France VIDITEL in the Netherlands.

The Commission is presently running an electronic journal called EURONEWS on Prestel in the U.K.

This 50-frame journal presents short news on:

- Council of Ministers Decisions on R & D matters.
- Calls for tenders from the Commission.
- Announcements of Conferences, Seminars, etc. organised or sponsored by the Commission.
- A review of publications arranged by the Department for Scientific and Technical Communication.

A response frame is available to record users' requests for information. The same service will be available in the Netherlands on VIDITEL from August 1, 1980 under the name EURONIEUWS.

To call EURONEWS on Prestel, dial 0044-1-600 6241, then key 2349.

To call EURONIEUWS on Viditel, dial 0031-70-151515, then key 5213.

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EUR: 85

PUBLICATIONS ON ENERGY

1. Atlas of subsurface temperatures in the European Communities

The temperature distribution in the subsurface to a depth of 5 000 m and by increments of 500 m is clearly displayed in a multicolour printed atlas covering the territory of the European Community. The atlas also contains maps of the terrestrial flow density and on the mean temperatures at the earth's surface. This compilation of temperature data is a basis for exploration of geothermal energy and a planning reference for administrative decisions. In addition, this document is of great value for the oil industry, the water resources agencies and for all geosciences.

EUR 6578 EN

Format: 35 × 49 cm

Size of the maps: 66 × 48 cm

Contents: 45 maps and 17 text pages in Danish, Dutch, English, French, German and Italian.

Price: DM 120.—

Order from: Th. Schäfer GmbH, Tivolistr. 4, D-3000 Hannover 1.

2. European solar radiation atlas (first volume)

The present volume deals with the global radiation on horizontal surfaces. It has been compiled for the area of the European Community in cooperation with the national weather services. On 17 maps are presented the monthly and yearly means together with some maximum and minimum values of the global solar energy which is received each day on the ground. The maps take into account verified data which have been measured over a timespan of 10 years; they give a comprehensive view of today's knowledge in this field.

All those interested in solar energy in Europe will find in this atlas an important source of information. Thanks to its clear presentation and the use of convenient energy units the atlas may be of direct help for estimating locally available resources and for dimensioning solar energy systems.

EUR 6577 DA, DE, EN, FR, IT, NL.

Format: DIN A4

Contents: 20 maps, 46 numerical tables, 25 text pages.

Price: DM 14.90

Order from: Grösschen Verlag, Südwall 15, D-4600 Dortmund

3. Environmental impact of energy strategies within the EEC

This study was commissioned in 1977 by the European Commission, and the principal findings were presented in January 1978 to the second session of the EEC Energy Commission's Nuclear Hearings held in Brussels.

Section 1 of the report considers the requirements of energy of the nine Member States from 1976 to 2000, applying a detailed examination of sectoral needs under different assumptions of economic growth and levels of energy conservation. The section goes on to develop alternative energy supply strategies which take into account feasible maximum and minimum contributions that could reasonably be expected from different energy sources, bearing in mind the availability of foreign sources of supply and the need to minimise foreign oil imports.

Section 2 initially describes the local, regional and global environment impacts associated with the production and use of different energy forms. It then goes

on to make a quantitative assessment of the impacts associated with each of the alternative energy strategies described in Section 1. Finally the report puts forward recommendations on Community energy policies designed to minimise overall environmental impact.

EUR 6571 EN

ISBN 0-08-025681-3

pp. xiii + 155

Price: £ 10

Order from: Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BN

4. Energy R & D Programme: Status report 1979

The Commission of the European Communities is actively involved in energy research through programmes carried out in its establishment of the Joint Research Centre (direct action) and through several other programmes (thermonuclear fusion, coal research, new energies, etc.) carried out under contract by industry, universities and research institutes among its Member States (indirect action).

Given the energy supply situation of the Community, there is an obvious necessity for a special effort to develop new energy sources and the associated technologies.

This is the reason why a first four year Energy Research and Development Programme of the European Communities had been approved by the Council on 22 August 1975. It constitutes one of the actions with which the Community replied to the challenge from the energy price crisis.

The aim of this report is to present the R & D work carried out under contract in the framework of this programme dealing with the so-called "new energies", as well as with energy conservation and energy systems modelling. The report starts with an outline of the energy R & D strategy which led the Commission to propose such a programme. It then presents a summary of the programme's content, its implementation and supervision and its preliminary results. Finally, a detailed description of each of the contracts concluded before 30 September 1977 is given. This description, which constitutes the main part of this report (or "catalogue") is subdivided into five chapters according to the programme's five objectives or sub-programmes. Each chapter is preceded by a few pages presenting the main lines and the status of research in the particular area considered.

EUR 6347 EN (2 Vol.)

ISBN 90-247-2220-9

pp. 1055

Price: Dfl. 230

Order from: Kluwer Academic Publishers Group, Distribution Centre, P.O. Box 322, 3300 AH Dordrecht

5. Hydrogen as an energy vector

The possible role of hydrogen as an energy carrier is a concern of many scientists and energy planners involved in the search for the best means to face the energy challenge.

It is becoming clearer and clearer that, in this situation of shrinking energy resources, the use of all available alternative energies will be essential and that, due to continuously increasing energy prices, hydrogen has the potential to play an important part in the future.

To prepare on time the technical means necessary for the utilisation of this alternative energy carrier, a four-year research and development programme, within the framework of the European Community's first Energy R & D Programme (1975-1979), has been carried out and recently concluded.