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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

UNIDO Guides to Information Sources

No. 30

08284

INFORMATION  
SOURCES  
ON  
NON-CONVENTIONAL  
SOURCES OF ENERGY



UNITED NATIONS

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION  
Vienna

UNIDO Guides to Information Sources  
No. 30

**INFORMATION SOURCES  
ON  
NON-CONVENTIONAL SOURCES  
OF ENERGY**



UNITED NATIONS  
New York, 1978

**Notations for non-conventional energy sources**

**Universal Decimal Classification (UDC)**

Tidal power	621.221
Wind power—generating stations	621.311.2
Gas engines, coal gas or methane	621.443
Solar machines	621.47
Wind engines, mills, pumps	621.548

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## INTRODUCTION

The United Nations Industrial Development Organization (UNIDO) promotes the use of industrial information in developing countries by giving guidance in improving local information facilities. As one of the means of promotion UNIDO compiles directories and guides to selected information sources on branches of industry of primary concern to developing countries. The present guide, dealing with the non-conventional energy sources is the thirtieth guide in the series of *UNIDO Guides to Information Sources* (UNIDO/LIB/SER.D). A list of the guides published to date appears at the end of this guide; more are planned for the series.

The directories and guides are not intended to be exhaustive, nor are they intended to be research tools; rather, they present sources considered to be of practical value to users. The data have been compiled so as to facilitate rapid access to the bodies referred to and the acquisition of the publications listed.

The present guide deals with sources of non-conventional energy and their utilization for heating, cooling and electric power generation. The principal forms of energy covered are geothermal, biomass, tidal and solar, including in the last not only the energy obtained directly from the sun's rays but also that obtained indirectly, from the wind and ocean thermal gradients, for example.

Although the need for alternative sources of energy has been felt in developing countries for some time, there seems to be a lack of integrated policies and programmes for the development of technology, and the local manufacture of equipment, for the utilization of such sources. Also, a great deal of the research and development work in this field appears to have been carried out on an *ad hoc* basis.

UNIDO, in co-operation with the United Nations Office for Science and Technology, is engaged in the analysis and promotion of non-conventional sources of energy in developing countries, with special reference to applied research and development, adaptation of imported technology and appropriate local manufacturing extension.

## EXPLANATORY NOTES

The designations employed and the presentation of the material in this guide do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country or its authorities, or concerning the delimitation of its frontiers.

Publications listed in this guide have been selected mainly from literature in the official languages of the United Nations; when appropriate, publications in other languages have also been included.

The names of organizations and publications are given in their original languages, wherever available; for those listed in languages other than the official languages of the United Nations, a translation of the title into English is included.

Where available, the date and the number of pages of the most recent known edition are indicated as well as the address of the issuing organization or publisher.

United Nations sales publications should be ordered by sales number. They are available through authorized distributors or may be ordered from.

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United States of America

or

Sales Section  
United Nations Office  
Palais des Nations  
CH-1211 Geneva 10  
Switzerland

Requests for non-sales items that are issued by the United Nations and related bodies should be made direct to the issuing bodies.

Suggestions for the inclusion of additional information in a future, revised version would be appreciated and should be addressed to:

Industrial Documentation Unit  
United Nations Industrial Development Organization  
P.O. Box 707  
A-1011 Vienna, Austria



## INTRODUCTION

Pour faciliter la diffusion et l'utilisation de l'information industrielle dans les pays en développement, l'Organisation des Nations Unies pour le développement industriel (ONUDI) aide ces pays à améliorer leurs moyens d'information, notamment en établissant des répertoires et des guides des principales sources d'information sur les secteurs industriels qui présentent pour eux un intérêt majeur. Le présent guide, qui concerne les sources non conventionnelles d'énergie, est le trentième de la série des *Guides des sources d'information* (UNIDO/LIB/SER.D). On trouvera en fin de volume la liste des guides déjà parus. D'autres doivent suivre.

Les ouvrages de cette série ne prétendent pas être exhaustifs; ce ne sont pas non plus des instruments de recherche, mais de simples guides des sources d'information considérées comme présentant un intérêt pratique pour les utilisateurs. Les données sont présentées de manière à permettre à ceux-ci de se mettre rapidement en rapport avec les sources d'information mentionnées et d'obtenir les publications auxquelles ils s'intéressent.

Le présent guide traite des sources non conventionnelles d'énergie et de leur utilisation pour la production de chaleur, de froid et d'électricité. Les principales formes d'énergie étudiées sont les suivantes: géothermique, biomassique, marémotrice, et solaire; pour la dernière, il s'agit non seulement de l'énergie que fournissent directement les rayons solaires, mais aussi de celle qu'on en tire de façon indirecte en utilisant la force du vent et les différences de température des eaux marines.

Bien que les pays en développement sentent depuis un certain temps déjà le besoin d'exploiter de nouvelles sources d'énergie, il semble qu'ils n'aient pas de programmes et de politiques intégrés pour la mise au point des techniques et pour la fabrication de l'équipement nécessaire. D'autre part, les travaux de recherche-développement entrepris en ce domaine ne semblent pas relever d'un plan d'ensemble.

L'ONUDI, en coopération avec le Bureau de la science et de la technique de l'Organisation des Nations Unies, s'occupe d'étudier et de promouvoir l'utilisation des sources non conventionnelles d'énergie dans les pays en développement, en mettant l'accent sur la recherche appliquée et le développement, l'adaptation des techniques importées, et l'expansion de la fabrication locale d'un matériel approprié.

## NOTES EXPLICATIVES

Les appellations employées dans la présente publication et la présentation des données qui y figurent n'impliquent de la part du Secrétariat de l'Organisation des Nations Unies aucune prise de position quant au statut juridique de tel ou tel pays ou territoire ou de ses autorités, ni quant au tracé de ses frontières.

Les publications énumérées dans le présent volume sont pour la plupart rédigées dans les langues officielles de l'Organisation des Nations Unies; toutefois, certains documents publiés dans d'autres langues ont aussi été mentionnés.

Les noms des organisations et les titres des publications sont donnés le plus souvent possible dans la langue originale; les noms des organisations et les titres des publications libellés dans des langues autres que les langues officielles de l'Organisation des Nations Unies ont été traduits en anglais.

Nous avons, aussi souvent qu'il était possible, précisé la date et le nombre de pages de l'édition la plus récente ainsi que l'adresse de l'éditeur ou de l'organisation qui a publié le document.

On peut se procurer les publications des Nations Unies auprès des distributeurs autorisés ou les commander à l'une des adresses suivantes, en mentionnant le numéro de vente :

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New York, N.Y. 10017  
(Etats-Unis d'Amérique)

ou

Office des Nations Unies  
Section des ventes  
Palais des Nations  
1211 Genève 10  
(Suisse)

Les documents des Nations Unies qui ne portent pas de numéro de vente doivent être demandés directement à l'organisation qui les a publiés.

Les propositions d'insertion de renseignements complémentaires dans une édition révisée seront prises en considération et devront être envoyées à l'adresse suivante :

Groupe de la documentation industrielle  
Organisation des Nations Unies pour le développement industriel  
Boîte postale 707  
A-1011 Vienne  
(Autriche)

## ВВЕДЕНИЕ

Организация ООН по промышленному развитию (ЮНИДО) содействует использованию промышленной информации в развивающихся странах путем предоставления руководящих рекомендаций в деле совершенствования работы местных информационных служб. В качестве одного из средств такого содействия ЮНИДО составляет справочники и руководства по отдельным источникам информации применительно к отраслям промышленности, имеющим первостепенное значение для развивающихся стран. Настоящее руководство, касающееся новых источников энергии, является тридцатым в серии руководств ЮНИДО по источникам информации *UNIDO Guides to Information Sources (UNIDO/EIB/SER. D)*. Список опубликованных до настоящего времени руководств помещен в конце данного руководства; планируется выпуск других руководств этой серии.

Справочники и руководства не ставят своей целью дать исчерпывающую информацию и не являются средством исследования; скорее они представляют собой источники информации, которые могут иметь практическую ценность для ее потребителей. Информация в них подобрана таким образом, чтобы помочь быстрому установлению контактов с организациями, на которые имеются ссылки и облегчить приобретение перечисленных изданий.

В настоящем руководстве рассматриваются новые источники энергии и их использование для получения тепла, для охлаждения и производства электроэнергии. В нем содержатся данные по основным видам энергии: энергии биомассы, геотермальной, приливной и солнечной энергии, причем к последней относится не только энергия, получаемая непосредственно из солнечных лучей, но также и вырабатываемая совместно, — например, путем использования силы ветра и океанических термальных градиентов.

Хотя потребность в альтернативных источниках энергии у развивающихся стран ощущается уже в течение определенного периода времени, они еще не имеют совместной политики и программ разработки технологии и производства собственными силами оборудования для использования таких источников. Кроме того, большой объем исследований и разработок в этой области, очевидно, проводится на временной основе.

ЮНИДО в сотрудничестве с Бюро ООН по науке и технике занимается анализом использования новых источников энергии в развивающихся странах и содействует их применению, уделяя особое внимание прикладным исследованиям и разработкам, адаптации импортируемой технологии и соответствующему расширению местных возможностей производства оборудования.

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United Nations Industrial Development Organization  
P.O. Box 707  
A-1011 Vienna  
Austria

## INTRODUCCION

La Organización de las Naciones Unidas para el Desarrollo Industrial (ONUDI) promueve la utilización de información industrial en países en desarrollo proporcionando orientación para el mejoramiento de los servicios locales de información. Entre los medios de que se vale la ONUDI para este fin, figura la compilación de repertorios y guías de fuentes de información seleccionadas sobre ramas industriales de interés primordial para los países en desarrollo. La presente guía, consagrada a las fuentes de energía no tradicionales, es la trigésima dentro de la serie titulada *Guías de Fuentes de Información* (UNIDO/LIB/SER.D). Al final de esta guía puede verse una lista de las publicadas hasta la fecha; se prevé la publicación de otras de la misma serie.

Los repertorios y las guías no pretenden ser exhaustivos ni están destinados a servir de instrumentos de investigación, sino que presentan fuentes consideradas de valor práctico para los usuarios. Los datos se han recopilado de manera que proporcionen un acceso rápido a las entidades mencionadas y faciliten la adquisición de las publicaciones que se indican.

La presente guía trata de fuentes de energía no tradicionales y de su utilización para calefacción, refrigeración y producción de energía eléctrica. Las principales formas de energía a que se refiere son: geotérmica, biomásica, mareomotriz y solar, entendiéndose por esta última no sólo la obtenida directamente de los rayos solares, sino también la obtenida en forma indirecta, como, por ejemplo, del viento y de los gradientes térmicos de las aguas marinas.

Aunque desde hace algún tiempo los países en desarrollo vienen sintiendo la necesidad de explotar nuevas fuentes de energía, parece existir una falta de políticas y de programas integrados para el desarrollo de tecnología y la fabricación local del equipo necesario. Además, gran parte de la labor de investigación y desarrollo emprendida en esta esfera parece haberse realizado con carácter especial.

La ONUDI, en cooperación con la Oficina de Ciencia y Tecnología de las Naciones Unidas, se ocupa de estudiar y promover la utilización de fuentes de energía no tradicionales en países en desarrollo, con especial hincapié en la investigación aplicada y el desarrollo, la adaptación de tecnología importada y la expansión de la fabricación local apropiada.

## NOTAS EXPLICATIVAS

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CH-1211 Ginebra 10  
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Se agradecerán las sugerencias que se hagan para la inclusión de información adicional en una futura versión revisada, sugerencias que deberán enviarse a la dirección siguiente:

Grupo de Documentación Industrial  
Organización de las Naciones Unidas para el Desarrollo Industrial  
P.O. Box 707  
A-1011 Viena  
(Austria)

## SECTION I

### PROFESSIONAL, TRADE AND RESEARCH ORGANIZATIONS, LEARNED SOCIETIES AND SPECIAL INFORMATION SERVICES

#### *A. United Nations and related bodies*

1. ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC (ESCAP)  
COMMITTEE ON INDUSTRY AND NATURAL RESOURCES  
Sala Santitham, Rajadamnern Avenue  
BANGKOK, Thailand
2. ECONOMIC COMMISSION FOR AFRICA (ECA)  
P.O. Box 3001  
ADDIS ABABA, Ethiopia
3. ECONOMIC COMMISSION FOR EUROPE (ECE)  
Palais des Nations  
CH-1211 GENEVA 10, Switzerland
4. ECONOMIC COMMISSION FOR LATIN AMERICA (ECLA)  
NATURAL RESOURCES AND ENVIRONMENT DIVISION  
Casilla 179-D  
Edificio Naciones Unidas  
Avenida Dag Hammarskjöld  
SANTIAGO, Chile
5. FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)  
AGRICULTURAL SERVICES DIVISION  
Via delle Terme di Caracalla  
I-00100 ROME, Italy
6. INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)  
P.O. Box 590  
Kärntner Ring 11  
A-1010 VIENNA, Austria
7. UNITED NATIONS DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS  
CENTRE FOR NATURAL RESOURCES, ENERGY AND TRANSPORT  
One United Nations Plaza  
NEW YORK, New York 10017, United States of America

8. UNITED NATIONS DEVELOPMENT PROGRAMME (UNDP)  
One United Nations Plaza  
NEW YORK, New York 10017, United States of America
9. UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO)  
DIVISION OF TECHNOLOGICAL EDUCATION AND RESEARCH  
7, place de Fontenoy  
F-75700 PARIS, France
10. UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)  
P.O. Box 30552  
NAIROBI, Kenya
11. UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION (UNIDO)  
ENGINEERING INDUSTRIES SECTION  
INDUSTRIAL INFORMATION SECTION  
P.O. Box 707  
A-1011 VIENNA, Austria
12. UNITED NATIONS CHILDREN'S FUND (UNICEF)  
FOOD ENGINEERING AND TECHNOLOGY SECTION  
866 United Nations Plaza  
NEW YORK, New York 10017, United States of America
13. UNITED NATIONS OFFICE FOR SCIENCE AND TECHNOLOGY  
One United Nations Plaza  
NEW YORK, New York 10017, United States of America
14. WORLD HEALTH ORGANIZATION (WHO)  
20, avenue Appia  
CH-1211 GENEVA 27, Switzerland
15. WORLD METEOROLOGICAL ORGANIZATION (WMO)  
B.P. I  
CH-1211 GENEVA 20, Switzerland

*B. International and regional organizations*

16. ASIAN INSTITUTE OF TECHNOLOGY  
DIVISION OF COMMUNITY AND REGIONAL DEVELOPMENT  
DIVISION OF ENVIRONMENTAL ENGINEERING  
P.O. Box 2754  
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18. COMMISSION OF THE EUROPEAN COMMUNITIES  
COMMITTEE FOR INFORMATION AND DOCUMENTATION ON SCIENCE AND TECHNOLOGY (CIDST)  
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B-1049 BRUSSELS, Belgium



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20. EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTER  
EUROPEAN SPACE AGENCY (ESA)  
NOORDWIJK, Netherlands
21. INDUSTRIAL DEVELOPMENT CENTRE FOR ARAB STATES  
(IDCAS)  
P.O. Box 1297  
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22. INTERNATIONAL ASSOCIATION FOR HYDROGEN ENERGY  
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CORAL GABLES, Florida 33124, United States of America
23. INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS  
(IIASA)  
ENERGY PROJECT  
A-2361 LAXENBURG, Austria
24. INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE  
FARMING SYSTEMS ENGINEERING  
P.O. Box 5320  
Oyo Road  
IBADAN, Nigeria
25. INTERNATIONAL RESEARCH CENTER FOR ENERGY AND  
ECONOMIC DEVELOPMENT  
UNIVERSITY OF COLORADO  
Economic Building  
BOULDER, Colorado 80302, United States of America
26. INTERNATIONAL SOCIETY FOR GEOTHERMAL ENGINEERING  
P.O. Box 4743  
WHITTIER, California 90607, United States of America
27. INTERNATIONAL SOLAR ENERGY SOCIETY (ISES)  
P.O. Box 52  
PARKVILLE, Victoria 3052, Australia
28. ISTITUTO INTERNAZIONALE PER LE RICERCHE GEOTERMICHE  
(International institute for geothermal research)  
I-56100 PISA, Italy
29. JOINT RESEARCH CENTRE OF THE EUROPEAN COMMUNITIES  
Centro Euratom di Ispra  
I-21020 VARESE, Italy
30. ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOP-  
MENT (OECD)  
COMMITTEE FOR ENERGY POLICY  
Château de la Muette  
2, rue André Pascal  
F-75775 PARIS, cedex 16, France

31. WEST AFRICAN ECONOMIC COMMUNITY  
OUAGADOUGOU, Upper Volta
32. WORLD COUNCIL OF CHURCHES  
COMMISSION OF THE CHURCHES' PARTICIPATION IN DEVELOPMENT  
150, route de Ferney  
CH-1211 GENEVA 20, Switzerland
33. WORLD ENERGY CONFERENCE  
5 Bury Street  
St. James's  
LONDON SW1Y 6AB, England
34. WORLD RADIATION DATA CENTRE  
HYDROMETEOROLOGICAL SERVICE OF THE USSR  
VOEIKOV MAIN GEOPHYSICAL OBSERVATORY  
7 Karbysheva  
LENINGRAD 194019, Union of Soviet Socialist Republics

*C. National bodies*

*Algeria*

35. CENTRE FOR INDUSTRIAL AND TECHNOLOGICAL STUDIES  
ALGIERS

*Argentina*

36. CENTRO DE INVESTIGACIONES ENERGETICAS  
Belgrano 748, 10<sup>o</sup> piso  
BUENOS AIRES
37. COMISION NACIONAL DE ESTUDIOS GEO-HELIOFISICOS  
DIVISION HELIOENERGETICA  
OBSERVATORIO NACIONAL DE FISICA COSMICA  
Avenida Mitre 3100  
SAN MIGUEL
38. INSTITUTO DE ESTUDIOS REGIONALES  
UNIVERSIDAD NACIONAL DE LA PAMPA  
Mansilla 178  
SANTA ROSA, La Pampa
39. INSTITUTO NACIONAL DE TECNOLOGIA AGROPECUARIA  
ESTACION EXPERIMENTAL AGROPECUARIA  
Casilla de Correo 25  
CATAMARCA
40. UNIVERSIDAD NACIONAL DE ROSARIO  
DEPARTAMENTO DE FISICA  
Avenida Pellegrini 250  
ROSARIO, Santa Fé

41. UNIVERSIDAD NACIONAL DE SALTA  
DEPARTAMENTO DE CIENCIAS EXACTAS  
Buenos Aires 177  
SALTA
42. UNIVERSIDAD NACIONAL DE SAN LUIS  
DEPARTAMENTO DE FISICA Y QUIMICA  
Chacabuco y Pedernera  
SAN LUIS

*Australia*

43. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION (CSIRO)  
DIVISION OF ATMOSPHERIC PHYSICS  
P.O. Box 77  
MORDIALLOC, Victoria 3190
44. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION (CSIRO)  
DIVISION OF MECHANICAL ENGINEERING  
P.O. Box 26  
Graham Road  
HIGHETT, Victoria 3190
45. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION (CSIRO)  
DIVISION OF PLANT INDUSTRY  
P.O. Box 1600  
CANBERRA, A.C.T. 2601
46. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION (CSIRO)  
SOLAR ENERGY STUDIES UNIT  
P.O. Box 89  
314 Albert Street  
EAST MELBOURNE, Victoria 3002
47. ENERGY RESEARCH CENTRE  
UNIVERSITY OF SYDNEY  
DEPARTMENT OF CHEMICAL ENGINEERING  
SYDNEY, New South Wales 2006
48. THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA  
SCHOOL OF PHYSICAL SCIENCES  
BEDFORD PARK, South Australia 5042
49. INSTITUTE OF ADVANCED STUDIES  
AUSTRALIAN NATIONAL UNIVERSITY  
DEPARTMENT OF ENGINEERING PHYSICS  
P.O. Box 4  
CANBERRA, A.C.T. 2600

50. INTERNATIONAL SOLAR ENERGY SOCIETY (ISES)  
AUSTRALIAN AND NEW ZEALAND SECTION  
c/o CSIRO, Division of Mechanical Engineering  
P.O. Box 26  
Graham Road  
HIGHETT, Victoria 3190
51. NEW SOUTH WALES INSTITUTE OF TECHNOLOGY  
SCHOOL OF PHYSICS AND MATERIALS  
FACULTY OF ARCHITECTURE AND BUILDING  
P.O. Box 123  
BROADWAY, New South Wales 2007
52. QUEENSLAND AGRICULTURAL COLLEGE  
DEPARTMENT OF FOOD TECHNOLOGY  
LAWES, Queensland 4345
53. ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF COMMUNICATION AND ELECTRONIC ENGINEERING  
124 La Trobe Street  
MELBOURNE, Victoria 3000
54. SWINBURNE COLLEGE OF TECHNOLOGY  
CHEMICAL ENGINEERING DEPARTMENT  
P.O. Box 218  
HAWTHORN, Victoria 3122
55. UNIVERSITY OF MELBOURNE  
DEPARTMENT OF MECHANICAL ENGINEERING  
PARKVILLE, Victoria 3052
56. UNIVERSITY OF NEW SOUTH WALES  
SCHOOL OF MECHANICAL AND INDUSTRIAL ENGINEERING  
DEPARTMENT OF FLUID MECHANICS AND THERMODYNAMICS  
P.O. Box 1  
KENSINGTON, New South Wales 2033
57. UNIVERSITY OF QUEENSLAND  
DEPARTMENT OF MECHANICAL ENGINEERING  
ST. LUCIA, Queensland 4067
58. UNIVERSITY OF WESTERN AUSTRALIA  
DEPARTMENT OF MECHANICAL ENGINEERING  
DEPARTMENT OF PHYSICAL AND INORGANIC CHEMISTRY  
NEDLANDS, Western Australia 6009
59. W. S. & L. B. ROBINSON COLLEGE  
UNIVERSITY OF NEW SOUTH WALES  
BROKEN HILL DIVISION  
P.O. Box 334  
BROKEN HILL, New South Wales 2880

***Austria***

60. INSTITUT FUER ALLGEMEINE PHYSIK (Institute for general physics)  
INSTITUT FUER HOCHBAU UND ENTWERFEN (Institute for construction and design)  
TECHNISCHE UNIVERSITAET WIEN (Vienna technical university)  
Karlsplatz 13  
A-1040 VIENNA
61. INSTITUT FUER ENERGIEWIRTSCHAFT (Institute for energy economics)  
TECHNISCHE UNIVERSITAET WIEN (Vienna technical university)  
Gusshausstrasse 25  
A-1040 VIENNA
62. INSTITUT FUER PHYSIKALISCHE CHEMIE (Institute of physical chemistry)  
UNIVERSITAET WIEN (Vienna University)  
Währingerstrasse 42  
A-1090 VIENNA
63. TECHNISCHE UNIVERSITAET GRAZ (Graz technical university)  
Kopernikusgasse 24  
A-8010 GRAZ
64. OESTERREICHISCHE GESELLSCHAFT FUER SONNENENERGIE UND WELTRAUMFRAGEN (Austrian solar and space agency)  
Garnisongasse 7  
A-1090 VIENNA

***Belgium***

65. ASSOCIATION POUR L'ETUDE D'HABITATS SOLAIRES-HELIOS  
42, boulevard Bran Whitlock  
B-1040 BRUSSELS
66. ETUDES TECHNIQUES ET CONSTRUCTIVES AEROSPACIALES (ETCA)  
CHARLEROI
67. INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE  
SECTION RADIOMETRIE  
3, avenue circulaire  
B-1180 BRUSSELS
68. MINISTERE DE L'AGRICULTURE  
B-1000 BRUSSELS
69. SECTION NATIONALE BELGE "COMPLEX BENELUX"  
c/o M. Jean G. J. Creplet  
37, avenue des Mimosas, boîte 8  
B-1150 WOLUWE-SAINT-PIERRE

70. UNIVERSITE CATHOLIQUE DE LOUVAIN  
FACULTE DES SCIENCES APPLIQUEES  
LABORATOIRE DE PHYSICO-CHIMIE ET DE PHYSIQUE DE L'ETAT  
SOLIDE  
Bâtiment Boltzmann  
1, place Croix du Sud  
B-1348 LOUVAIN-LA-NEUVE

**Brazil**

71. FISICA ESALQ  
Caixa Postal 9  
13400 PIRACICABA, SP
72. INSTITUTO TECNOLOGICO DE AERONAUTICA (Technical aero-  
nautics institute)  
12-200 São José dos Campos  
SÃO PAULO
73. UNIVERSIDADE FEDERAL DA PARAIBA (Federal university of  
Paraiba)  
LABORATORIO DE ENERGIA SOLAR (Solar energy laboratory)  
João Pessoa  
58000 PARAIBA
74. UNIVERSIDADE DE SÃO PAULO (University of São Paulo)  
FACULDADE DE ARQUITETURA E URBANISMO (Faculty of  
architecture and urbanism)  
Rua Maranhão  
01240 SÃO PAULO

**Bulgaria**

75. ECOLE SUPERIEURE DE SYLVICULTURE  
SOFIA

**Burma**

76. CENTRAL RESEARCH ORGANIZATION  
PHYSICS AND ENGINEERING RESEARCH  
Kanbe, Yankin Port  
RANGOON
77. THE UNION OF BURMA APPLIED RESEARCH INSTITUTE  
RANGOON

**Canada**

78. ADVANCED CONCEPTS CENTRE  
DEPARTMENT OF THE ENVIRONMENT  
OFFICE OF THE SCIENCE ADVISOR  
OTTAWA, Ontario K1A 0H3

79. **ATMOSPHERIC ENVIRONMENT SERVICE**  
4905 Dufferin Street  
DOWNSVIEW, Ontario M3H 5T4
80. **BIOMASS ENERGY INSTITUTE**  
P.O. Box 129, Postal Station C  
WINNIPEG, Manitoba R3M 3S7
81. **BRACE RESEARCH INSTITUTE**  
MACGILL UNIVERSITY  
MACDONALD COLLEGE  
STE ANNE DE BELLEVUE 800, Quebec HOA 1C0
82. **FEDERAL DEPARTMENT OF ENERGY, MINES AND RESOURCES**  
580 Booth Street  
OTTAWA, Ontario K1A 0E4
83. **NATIONAL RESEARCH COUNCIL**  
**LOWSPEED AERODYNAMICS LABORATORY**  
Montreal Road  
OTTAWA, Ontario K1H 6R6
84. **UNIVERSITY OF WATERLOO**  
WATERLOO, Ontario
85. **THE UNIVERSITY OF WESTERN ONTARIO**  
**FACULTY OF ENGINEERING SCIENCE**  
**DEPARTMENT OF CHEMISTRY**  
LONDON 72, Ontario N6A 5B9

*Chile*

86. **ASOCIACION CHILENA DE ENERGIA SOLAR APLICADA SAN-**  
**TIAGO**
87. **CENTRO DE INVESTIGACIONES DE ENERGIA SOLAR**  
**UNIVERSIDAD TECNICA FEDERICO SANTA MARIA**  
Casillas 110/V y 132/V  
VALPARAISO
88. **COMISION NACIONAL DE INVESTIGACION CIENTIFICA Y**  
**TECNOLOGIA (CONICYT)**  
Casilla 297-V  
Canada 308  
SANTIAGO
89. **UNIVERSIDAD DE CHILE**  
**DEPARTAMENTO DE FISICA**  
**DEPARTAMENTO DE GEOFISICA**  
SANTIAGO
90. **UNIVERSIDAD DEL NORTE**  
**LABORATORIO DE ENERGIA SOLAR**  
ANTOFAGASTA

*China*

91. CHUNG-KUO TIEN-CHI KUNG-CH'ENG HSUEH-HUI (Chinese society of electrical engineering)  
PEKING

*Congo*

92. BRAZZAVILLE COLLEGE OF SCIENCES  
DEPARTMENT OF PHYSICS  
BRAZZAVILLE

*Czechoslovakia*

93. INSTITUTE OF BOTANY  
CZECHOSLOVAK ACADEMY OF SCIENCE  
CS-37982 TREBON
94. INSTITUTE OF EXPERIMENTAL ENDOCRINOLOGY  
SLOVAK ACADEMY OF SCIENCE  
BRATISLAVA
95. SLOVAK TECHNICAL UNIVERSITY  
DEPARTMENT OF BUILDING PHYSICS  
BRATISLAVA

*Denmark*

96. AKADEMIET FOR DE TEKNISKE VIDENSKABER (Danish academy of technical science)  
SOLAR ENERGY GROUP  
Rigensgade 11  
DK-1316 COPENHAGEN
97. DANMARKS TEKNISKE HOEJSKOLE (Technical university of Denmark)  
PHYSICS LABORATORY III  
Building 309C  
DK-2800 LYNGBY
98. DANMARKS TEKNISKE HOEJSKOLE (Technical university of Denmark)  
THERMAL INSULATION LABORATORY  
Building 118  
DK-2800 LYNGBY
99. NIELS BOHR INSTITUTE  
Blegdamsvej 17  
DK-2100 COPENHAGEN

*Egypt*

100. AIN SHAMS UNIVERSITY  
CAIRO-HELIOPOLIS



101. NATIONAL RESEARCH CENTRE  
SOLAR ENERGY LABORATORY  
CAIRO-DOKKI

*Fiji*

102. CENTRAL PLANNING OFFICE  
ENERGY UNIT  
P.O. Box 2351  
Government Buildings  
SUVA, Viti Levu

*France*

103. ASSOCIATION FRANÇAISE POUR L'ETUDE ET LE DEVELOPPE-  
MENT DES APPLICATIONS DE L'ENERGIE SOLAIRE  
28, rue de la Source  
F-75016 PARIS

104. BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES  
DEPARTEMENT GEOTHERMIE  
B.P. 6009  
F-45018 ORLEANS

105. CENTRE D'ETUDE SPATIALE DES RAYONNEMENTS  
B.P. 4346  
F-31029 TOULOUSE

106. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)  
LAVORATOIRE DE L'ENERGIE SOLAIRE  
LABORATOIRE DES ULTRA-REFRACTAIRES  
B.P. 5  
F-66210 ODEILLO-FONT-ROMEU

107. CENTRE NATIONAL D'ETUDES SPATIALES (CNES)  
129, rue de l'Université  
F-75007 PARIS

108. CENTRE NATIONAL POUR L'EXPLOITATION DES OCEANS  
39, avenue d'Iéna  
F-75016 PARIS

109. COMMISSARIAT A L'ENERGIE ATOMIQUE  
CHEF DU PROJET SOLAIRE  
B.P. 2  
F-91190 GIF-SUR-YVETTE

110. COOPERATION MEDITERRANEENNE POUR L'ENERGIE SOLAIRE  
(COMPLES)  
Palais de la Bourse  
F-13001 MARSEILLE

111. ELECTRICITE DE FRANCE  
DIRECTION DES ETUDES ET RECHERCHES  
EDF Renardières  
F-77250 ECUEILLE
112. MINISTERE DE L'INDUSTRIE ET DE LA RECHERCHE  
DELEGATION AUX ENERGIES NOUVELLES  
COMITE DE L'ENERGIE SOLAIRE  
13, rue de Bourgogne  
F-75007 PARIS
113. OFFICE FRANÇAIS DE RECHERCHES DE BIOCLIMATOLOGIE  
196, rue de l'Université  
F-75007 PARIS
114. SECRETARIAT DES MISSIONS D'URBANISME ET D'HABITAT  
11, rue Chardin  
F-75016 PARIS
115. SOCIETE FRANÇAISE D'ETUDES THERMIQUES ET D'ENERGIE  
SOLAIRE (SOFRETES)  
B.P. 163  
Zone industrielle d'Amilly  
F-45203 MONTARGIS
116. UNIVERSITE DE LYON  
DEPARTEMENT PHYSIQUE DES MATERIAUX  
4B, boulevard du 11 Novembre  
F-69621 VILLEURBANNE
117. UNIVERSITE DE NANCY  
FACULTE DES SCIENCES  
LABORATOIRE DE DEPOTS METALLIQUES  
Boulevard des Aiguillettes  
F-5400 NANCY
118. UNIVERSITE DE PARIS VI  
GEOPHYSIQUE SPATIALE  
2, place Jussieu  
F-75005 PARIS
119. UNIVERSITE DE PROVENCE  
DEPARTEMENT D'HELIOPIIYSIQUE  
Centre de Saint Jérôme  
F-13397 MARSEILLE, cedex 4

*German Democratic Republic*

120. INSTITUT FUER ENERGETIK (Institute of energetics)  
LEIPZIG
121. ZENTRALINSTITUT FUER ELEKTRONPHYSIK (Central institute of  
electron physics)  
AKADEMIE DER WISSENSCHAFTEN (Academy of sciences)  
Rudower Chaussee 5  
DDR-1199 BERLIN

*Germany, Federal Republic of*

122. BUNDESMINISTERIUM FUER FORSCHUNG UND TECHNOLOGIE  
(BMFT) (Federal ministry of research and technology)  
Postfach 120370  
Stresemannstrasse 2  
D-5 200 BONN 12
123. DEUTSCHE GESELLSCHAFT FUER SONNENENERGIE (DGS)  
(German solar energy society)  
Postfach 1208  
D-8032 GRAEFELING
124. FORSCHUNGSINSTITUT FUER ENERGIETECHNIK (Research institute for energy technology)  
Hauffstrasse 14  
D-7441 WOLFSSCHLUGEN
125. FORSCHUNGSINSTITUT FUER WINDENERGIETECHNIK (Research institute for wind energy technology)  
UNIVERSITAET STUTTGART (Stuttgart university)  
Pfaffenwaldring 31  
D-7000 STUTTGART 80
126. INSTITUT FUER ANGEWANDTE THERMODYNAMIK (Institute of applied thermodynamics)  
TECHNISCHE UNIVERSITAET RHEIN-WESTFALEN (Technical university of Rhine-Westphalia)  
AACHEN
127. INSTITUT FUER PHYSIKALISCHE ELEKTRONIK (Institute of physical electronics)  
UNIVERSITAET STUTTGART (Stuttgart university)  
Boblingerstrasse 70  
7000 STUTTGART 1
128. INSTITUT FUER LICHTTECHNIK (Institute for light technology)  
TECHNISCHE UNIVERSITAET BERLIN (Technical university of Berlin)  
Einsteinufer 19  
D-1000 BERLIN (WEST) 10
129. INSTITUT FUER SYSTEMTECHNIK UND INNOVATIONS-FORSCHUNG (ISI) (Institute for system technology and innovation research)  
Breslauerstrasse 98  
D-7500 KARLSRUHE
130. TECHNISCHE UNIVERSITAET BRAUNSCHWEIG (Brunswick technical university)  
Mendelssohnstrasse 16  
D-3300 BRUNSWICK

***Ghana***

131. TECHNOLOGY CONSULTANCY CENTRE  
UNIVERSITY OF SCIENCE AND TECHNOLOGY  
KUMASI

***Greece***

132. HELLENIC SCIENTIFIC SOCIETY OF SOLAR AND AEOLIAN  
ENERGY  
30 Atlantos Street  
Paleon Phaliron  
ATHENS
133. NUCLEAR RESEARCH CENTRE "DEMOKRITOS"  
SOLAR ENERGY RESEARCH CENTRE  
GREEK ATOMIC ENERGY COMMISSION  
Aghia Paraskevi-Attiki  
ATHENS
134. UNIVERSITY OF ATHENS  
P.O. Box 1199  
ATHENS

***Guyana***

135. UNIVERSITY OF GUYANA  
FACULTY OF TECHNOLOGY  
GEORGETOWN

***Hungary***

136. HUNGARIAN CENTRAL TECHNICAL LIBRARY AND DOCUMENTATION  
CENTRE (TECHNOINFORM)  
P.O. Box 12  
H-1428 BUDAPEST
137. NAPFIZIKAI OBSZERVATORIUM MTA (Heliophysical observatory of  
the Hungarian academy of sciences)  
DEBRECEN 10
138. RESEARCH INSTITUTE FOR TECHNICAL PHYSICS  
HUNGARIAN ACADEMY OF SCIENCES  
DEPARTMENT OF OPTICS AND ELECTRONICS  
Fóti ut. 56  
H-1047 BUDAPEST

***Iceland***

139. ORKUSTOFNUN: THE NATIONAL ENERGY AUTHORITY  
GEOTHERMAL DIVISION  
LAUGAVEGI 116  
REYKJAVIK

*India*

140. APPROPRIATE TECHNOLOGY DEVELOPMENT ASSOCIATION  
Gandhi Bhawan  
LUCKNOW, Uttar Pradesh
141. ASSOCIATION OF VOLUNTARY AGENCIES FOR RURAL DEVELOPMENT  
A/1 Kailash Colony  
NEW DELHI 110 048
142. AUROVILLE CENTRE FOR ENVIRONMENTAL STUDIES  
PONDICHERRY 2, 605 001
143. BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE  
PILANI, Rajasthan
144. CENTRAL ARID ZONE RESEARCH INSTITUTE  
DIVISION OF WIND POWER AND SOLAR ENERGY UTILIZATION  
JODHPUR, Rajasthan
145. CENTRAL SALT AND MARINE CHEMICAL RESEARCH INSTITUTE  
ALL-INDIA SOLAR ENERGY WORKING GROUP  
BHAUNAGAR, Gujarat
146. COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)  
DIVISION OF RESEARCH COORDINATION AND INDUSTRIAL LIAISON  
Rafi Marg  
NEW DELHI
147. GHANDIAN INSTITUTE OF STUDIES  
APPROPRIATE TECHNOLOGY DEVELOPMENT UNIT  
P.O. Box 116  
RAJGHAT, Varanasi 221 001
148. GOBAR GAS RESEARCH STATION  
Ajitmal  
ETAWAH, Uttar Pradesh
149. INDIAN AGRICULTURAL RESEARCH INSTITUTE  
AGRICULTURAL ENGINEERING DIVISION  
Dairy Road  
NEW DELHI 110 012
150. INDIAN INSTITUTE OF SCIENCE  
CELL FOR THE APPLICATION OF SCIENCE AND TECHNOLOGY TO RURAL AREAS  
BANGALORE, Karnataka 560 012
151. INDIAN INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
KANPUR, Uttar Pradesh 208 016

152. INDIAN INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
MADRAS 600 036
153. MINISTRY OF INDUSTRY AND CIVIL SUPPLIES  
APPROPRIATE TECHNOLOGY CELL  
268 Udyog Bharan  
NEW DELHI 1
154. NATIONAL AERONAUTICAL LABORATORY  
P.O. Box 1779  
BANGALORE, Karnataka 560 017
155. NATIONAL PHYSICAL LABORATORY  
NEW DELHI 12
156. REGIONAL ENGINEERING COLLEGE  
WARANGAL, Andhra Pradesh 506 004

*Indonesia*

157. BANDUNG INSTITUTE OF TECHNOLOGY  
DEVELOPMENT TECHNOLOGY CENTRE  
DEPARTMENT OF ENGINEERING PHYSICS  
AERO- AND HYDRODYNAMIC LABORATORY  
SOLAR ENERGY GROUP  
Jl. Ganesha 10  
BANDUNG
158. NATIONAL INSTITUTE OF AERONAUTICS AND SPACE  
DJAKARTA

*Iran*

159. INSTITUTE OF NATURAL RESOURCES  
KARAJ
160. SOLAR ENERGY CENTRE  
PAHLAVI UNIVERSITY  
DEPARTMENT OF MECHANICAL ENGINEERING  
SHIRAZ

*Iraq*

161. AL-MUSTANSIRIYA UNIVERSITY  
PHYSICS DEPARTMENT  
BAGHDAD
162. BUILDING RESEARCH CENTRE  
SCIENTIFIC RESEARCH FOUNDATION  
BAGHDAD

*Israel*

163. BEN GURION UNIVERSITY OF THE NEGEV  
RESEARCH AND DEVELOPMENT AUTHORITY  
P.O. Box 1025  
BEER SHEVA 84110
164. THE HEBREW UNIVERSITY OF JERUSALEM  
AUTHORITY OF RESEARCH AND DEVELOPMENT  
DEPARTMENT OF PHYSICS  
P.O. Box 24100  
JERUSALEM
165. ISRAEL INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF ENVIRONMENTAL ENGINEERING  
DEPARTMENT OF BUILDING CLIMATOLOGY  
BUILDING RESEARCH STATION  
Technion City  
HAIFA
166. THE NATIONAL PHYSICAL LABORATORY OF ISRAEL  
Hebrew University Campus  
JERUSALEM
167. SCIENTIFIC RESEARCH FOUNDATION  
Dan Danziger Building  
Hebrew University Campus  
P.O. Box 3745  
JERUSALEM

*Italy*

168. INTERNATIONAL SOLAR ENERGY SOCIETY  
ITALIAN SECTION  
c/o Dr. V. Storelli  
Via F. Crispi 72  
I-80121 NAPLES
169. ISTITUTO DI FISICA DELL'ATMOSFERA (Institute of atmospheric  
physics)  
Piazzale Luigi Sturzo 31  
I-00144 ROME
170. ISTITUTO DI FISICA (Institute of physics)  
UNIVERSITA DI NAPOLI (University of Naples)  
FACOLTA D'INGEGNERIA (Faculty of engineering)  
Piazzale Tecclino  
I-80121 NAPLES
171. ISTITUTO DI FISICA TECNICA (Institute of technical physics)  
POLITECNICO DI MILANO (Milan polytechnic school)  
Piazza L. Da Vinci 32  
I-20133 MILAN

172. ISTITUTO DI FISICA TECNICA E IMPIANTI TERMOTECNICI  
(Institute of technical physics and thermotechnical appliances)  
UNIVERSITA DEGLI STUDI (University of Genoa)  
FACOLTA D'INGEGNERIA (Faculty of engineering)  
Via all'Operapia 11  
I-16145 GENOA
173. ISTITUTO DI MERCEOLOGIA (Institute of material science)  
UNIVERSITA DEGLI STUDI (University of Bari)  
Largo A. Fiaccacreta 1  
I-70122 BARI
174. UNIVERSITA DI NAPOLI (University of Naples)  
LABORATORIO DELL'ENERGIA SOLARE (Solar energy laboratory)  
Via F. Crispi 72  
I-80121 NAPLES
175. UNIVERSITA DI ROMA (University of Rome)  
FACOLTA D'INGEGNERIA CHIMICA (Chemical engineering faculty)  
Via Trinita dei Pellegrini 19  
ROME

*Japan*

176. AGENCY FOR INDUSTRIAL SCIENCE AND TECHNOLOGY  
BIOCONVERSION COMMITTEE  
TOKYO
177. ELECTRICAL LABORATORY  
Tanashi  
TOKYO
178. GOVERNMENT INDUSTRIAL RESEARCH INSTITUTE  
SOLAR RESEARCH LABORATORY  
Hirate-machi  
Kita-ku  
NAGOYA
179. INSTITUTE OF ENERGY ECONOMICS  
Mori Building  
28 Shiba-Nishikubo  
Sakuragawa-cho  
Minato-ku  
TOKYO
180. JAPAN INFORMATION CENTRE OF SCIENCE AND TECHNOLOGY  
5-2, 2 chome, Nagata-cho  
Chiyoda-ku  
100 TOKYO
181. JAPAN WEATHER ASSOCIATION RESEARCH INSTITUTE  
Tonen Building  
3-16-6 Kanda, Nishiki-cho  
Chiyoda-ku  
101 TOKYO



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362. UNIVERSITY OF FLORIDA  
DEPARTMENT OF MECHANICAL ENGINEERING  
SOLAR ENERGY AND ENERGY CONVERSION LABORATORY  
GAINESVILLE, Florida 32611
363. UNIVERSITY OF HOUSTON  
SOLAR ENERGY LABORATORY  
HOUSTON, Texas 77004
364. UNIVERSITY OF MARYLAND  
DEPARTMENT OF MECHANICAL ENGINEERING  
COLLEGE PARK, Maryland 20742
365. UNIVERSITY OF MASSACHUSETTS  
DEPARTMENT OF CIVIL ENGINEERING  
THE ENERGY ALTERNATIVES PROGRAM  
AMHERST, Massachusetts 01002
366. UNIVERSITY OF MINNESOTA  
DEPARTMENT OF MECHANICAL ENGINEERING  
125 Mechanical Engineering Building  
MINNEAPOLIS, Minnesota 55455
367. UNIVERSITY OF NEVADA SYSTEM  
LABORATORY OF ATMOSPHERIC PHYSICS  
DESERT RESEARCH STATION  
RENO, Nevada 89507
368. UNIVERSITY OF WISCONSIN  
SOLAR ENERGY LABORATORY  
ENGINEERING RESEARCH LABORATORY  
1500 Johnson Drive  
MADISON, Wisconsin 53706
369. VOLUNTEERS IN TECHNICAL ASSISTANCE (VITA)  
3706 Rhode Island Avenue  
MOUNT RAINIER, Maryland 20822
370. WESTERN RESEARCH APPLICATION CENTER  
UNIVERSITY OF SOUTHERN CALIFORNIA  
University Park  
LOS ANGELES, California 90007
371. WIND ENERGY SOCIETY OF AMERICA  
1700 East Walnut  
PASADENA, California 91106
372. WORLDWATCH INSTITUTE  
1776 Massachusetts Avenue, N.W.  
WASHINGTON, D.C. 20036
373. YOUNGSTOWN STATE UNIVERSITY  
ELECTRICAL ENGINEERING DEPARTMENT  
SOLAR ENERGY TASK GROUP  
YOUNGSTOWN, Ohio 44555

*Upper Volta*

374. ECOLE INTER-ETATS DE L'EQUIPEMENT RURAL  
B.P. 7023  
OUAGADOUGOU

*Yugoslavia*

375. BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES  
P.O. Box 522  
BELGRADE
376. UNIVERSITY OF BELGRADE  
METEOROLOGICAL DEPARTMENT  
BELGRADE
377. UNIVERSITY OF NOVI SAD  
DEPARTMENT OF PLANT PHYSIOLOGY  
Akademska Ulica 2  
NOVI SAD

*Zambia*

378. UNIVERSITY OF ZAMBIA  
DEPARTMENT OF CIVIL ENGINEERING  
P.O. Box 2379  
LUSAKA

## SECTION II

### DIRECTORIES

List of manufacturers, firms, organizations, materials, products, equipment and other similar data, arranged in alphabetical or classified order

#### *A. General, regional and national directories*

Manufacturers and export directories covering many branches of industry and giving information on industrial and commercial firms of one country or a group of countries

379. **ABC EUROP. PRODUCTION 1972**  
2 vols. In English, French, Italian, Portuguese and Spanish. Universal register of European exports. Index of products.  
See: Wind power engines *Index No.* 7814  
Wind pump installations 7815  
Publ.: Europ. Export Edition GmbH  
Postfach 4034  
D-6100 DARMSTADT, Federal Republic of Germany
380. **AMERICAN REGISTER OF EXPORTERS AND IMPORTERS**  
Annual. Index in English, French, German and Spanish. Covers United States. Listed by broad product areas. See: Windmills, Index No. W-120.  
Publ.: American Register of Exporters and Importers Corporation  
90 West Broadway  
NEW YORK, New York 10007, United States of America
381. **CANADIAN TRADE INDEX**  
Annual. Text in English; indexes in English, French and Spanish. Guide to buying and selling in Canada. Lists manufacturers and products. Includes about 10,000 detailed product classifications in English with French and Spanish translations. See: Windmills, Index No. D-447.  
Publ.: The Canadian Manufacturers' Association  
67 Yonge Street  
TORONTO, Ontario M5E 1J9, Canada
382. **KOMPASS DIRECTORIES**  
National directories published in a number of countries, with standard format. Multilingual, including language of the country covered. Indexed according to product classifications. Alphabetical list of firms and trade

marks, designating whether supplier is primary or secondary manufacturer, importer or wholesaler.

	<i>Sun collectors</i> (section)
See: KOMPASS Australia	37-23-35, 37-43-13
KOMPASS Belgium/Luxembourg	37-23-35, 37-43-13
KOMPASS Denmark	37-43
KOMPASS France	37-99
KOMPASS Germany, Federal Republic of	82-09-1, 37-43
KOMPASS Holland	37-23-35, 37-43-13
KOMPASS Norway	37-14, 37-43
KOMPASS Switzerland/Liechtenstein	37-23-35, 37-43-13
KOMPASS United Kingdom	39-19
Publ.: Kompass International AG Neuhausstrasse 4 CH-8044 ZURICH, Switzerland or local publisher in country of publication	

383. **WER BAUT MACHINEN? (Who makes machinery? )**  
Prepared by the Association of German Machine Manufacturers. Annual. In English, French, German and Spanish. Special buyer's guide for machinery, apparatuses and precision tools in Federal Republic of Germany and Berlin (West). Alphabetical and classified guides. See: Pumps and compressors, Index No. 11.  
Publ.: Hoppenstedt Wirtschaftsverlag GmbH  
Havelstrasse 9  
D-6100 DARMSTADT, Federal Republic of Germany

#### *B. Branch directories<sup>1</sup>*

384. **APPLIED SOLAR ENERGY RESEARCH: A DIRECTORY OF WORLD ACTIVITIES AND BIBLIOGRAPHY OF SIGNIFICANT LITERATURE**  
J. S. JENSEN, ed. 1959. 275 p. Lists solar energy research projects throughout the world. Thorough review of solar energy literature up to 1958; with abstracts.  
Publ.: Stanford Research Institute  
MENLO PARK, California 94025, United States of America
385. **APPROPRIATE TECHNOLOGY SOURCE-BOOK**  
K. DARROW and K. PAM. 1976. 304 p. Guide to practical plans and books for small community technology. Contains critical reviews of selected publications on alternative sources of energy; list of publishers, sources and bookstores. Separate chapters on wind, water, solar power and methane gas.  
Publ.: Appropriate Technology Project  
Volunteers in Asia  
Box 4543  
STANFORD, California 94305, United States of America

<sup>1</sup>This section also includes guides to institutions involved in research and development in the field of non-conventional energy sources as well as reference books describing applications.

386. **ASHRAE HANDBOOK AND PRODUCT DIRECTORY: APPLICATION VOLUME**  
 3 vol. Gives summary of current practice in the fields of heating, refrigeration, air-conditioning and ventilation with substantial section on availability and characteristics of solar radiation and its utilization for heating and cooling. (ASHRAE guide and data book series)  
 Publ.: American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)  
 345 East 47th Street  
 NEW YORK, New York 10017, United States of America
387. **CATALOGUE ON SOLAR ENERGY HEATING AND COOLING PRODUCTS**  
 1975. (ERDA Report No. 75)  
 Publ.: Energy Research and Development Administration (ERDA)  
 1800 Sixth Street  
 WASHINGTON, D.C. 20545, United States of America
388. **DIRECTORY OF APPROPRIATE TECHNOLOGY: MACHINES, TOOLS, PLANTS AND EQUIPMENT FOR RURAL DEVELOPMENT**  
 1976. 500 p. Covers about 30 pieces of equipment including solar water heaters and biogas plants. Gives descriptions, drawings and information on construction.  
 Publ.: Appropriate Technology Development Association  
 Gandhi Bhawan  
 LUCKNOW, Uttar Pradesh, India
389. **DIRECTORY OF THE SOLAR INDUSTRY**  
 R. LIVINGSTONE. 1975. 48 p. Classified and alphabetical list of 471 organizations concerned with solar energy, wind power, photovoltaics, bioconversion, ocean gradients collectors, instruments, design and engineering services.  
 Publ.: Total Environmental Action (TEA)  
 Church Hill  
 HARRISVILLE, New Hampshire 03450, United States of America
390. **DIRECTORY OF SOLAR INDUSTRY**  
 Publ.: Solar Data  
 13 Evergreen Road  
 HAMPTON, New Hampshire 03842, United States of America
391. **ENERGY**  
 Lists about 500 organizations, governmental and non-governmental agencies, companies and publishers providing information on energy. Includes descriptions and publication programmes. Classified list of energy books, including alternative energy sources. (Special issue of *Library Journal*, January 1977) See: United States coverage, p. 27-81.  
 Publ.: R. R. Bowker  
 117 Church Street  
 WHITINSVILLE, Massachusetts 01488, United States of America

392. **ENERGY: A GUIDE TO ORGANIZATIONS AND INFORMATION SOURCES IN THE UNITED STATES**  
1974. List of organizations concerned with energy. Includes alternative energy sources and their impact on environment.  
Publ.: Center for California Public Affairs  
P.O. Box 30  
CLAREMONT, California 91711, United States of America
393. **ENERGY, ENVIRONMENT AND BUILDING**  
P. STEADMAN. 1975. 287 p. Report to the Academy of National Sciences of Philadelphia. World-wide coverage with emphasis on United States. Reviews energy conservation measures in building. Covers solar energy, wind power, small-scale water-power, composting, waste treatment and methane gas. Detailed list of buildings, manufacturers, information sources, illustrations and bibliographies. See: Cambridge Urban and Architectural Studies No. 2.  
Publ.: Cambridge University Press  
The Pitt Building, Trumpington Street  
CAMBRIDGE CB2 1RP, England
394. **ENERGY FOR RURAL DEVELOPMENT: RENEWABLE RESOURCES AND ALTERNATIVE TECHNOLOGIES FOR DEVELOPING COUNTRIES**  
1976. 306 p. Report of an *Ad Hoc* Panel of the Advisory Committee on Technology Innovation of the National Academy of Sciences. Covers direct uses of solar energy, wind power, hydropower, photosynthesis, microbiological conversion of plants to liquid fuels and geothermal energy.  
See: Appendix 1: Energy research and development with potential for small-scale application.  
Appendix 2: Alphabetical list, by country, of manufacturers of solar heating and cooling devices.  
Appendix 3: Manufacturers of terrestrial solar photovoltaic devices.  
Appendix 5: List of manufacturers, by country, of windmill pumps and generators.  
Appendix 7: Directory of windmill towers for construction on the farm.  
Appendix 8: Currently manufactured small-scale hydropower machinery.  
  
Order from:  
Agency for International Development  
Technical Assistance Bureau  
Office of Science and Technology  
WASHINGTON, D.C. 20523, United States of America
395. **ENERGY FOR SURVIVAL**  
W. CLARK. 1974. Guide to sources on geothermal, wind, hydrogen and solar energy.  
Publ.: Doubleday and Company, Inc.  
277 Park Avenue  
NEW YORK, New York 10017, United States of America

396. **ENERGY INFORMATION LOCATOR**  
Annual. Covers mainly United States. Guide to information centres, systems, data bases, abstracting services, directories, newsletters and journals. Classified subject index covers tidal, solar, wind and geothermal energy and bioconversion. Classified bibliography.  
Publ.: Environment Information Center (EIC)  
Energy Reference Department  
124 East 39th Street  
NEW YORK, New York 10016, United States of America
397. **ENERGY PRIMER: SOLAR, WIND AND BIOFUELS**  
T. GAGE *et. al.*, 1975. 200 p. Comprehensive technical book about renewable forms of energy. Focuses on small-scale systems. Book and hardware reviews. Articles and illustrations describe the function of solar water heaters, space heaters and dryers, windmills, wind generators and methane digesters.  
Publ.: Portola Institute  
558 Santa Cruz Avenue  
MENLO PARK, California 94025, United States of America
398. **FLAT-PLATE SOLAR COLLECTORS AND THEIR APPLICATION TO DWELLINGS: LOW TEMPERATURE CONVERSION OF SOLAR ENERGY**  
A. EGGERS LURA, 1976. 232 p. Report to the Commission of the European Communities. Survey of solar research and development work throughout the world. Lists professional societies, periodicals, books, patents, bibliography and abstracting services, proceedings, government and semi-official publications.  
See: Section 6: Classified list of solar hardware and equipment in Australia, Europe, Japan and United States.  
Section 7: Review of the United States national programme for solar heating and cooling.  
Section 8: Bibliography with abstracts.  
Publ.: International Solar Power Company Ltd  
Rosenkaeret 22B  
DK-2860 SOEBORG, Denmark
399. **HEATING AND VENTILATING YEARBOOK**  
Annual. Covers the use of solar energy for heating and ventilating.  
Publ.: Heating and Ventilating Contractors Association  
Coastar Chambers  
172 Buckingham Palace Road  
LONDON SW1 9TD, England
400. **HEATING, PIPING, AIR CONDITIONING MECHANICAL SYSTEMS INFORMATION INDEX**  
Annual. Directory of manufacturers, products, engineering societies and associations dealing with heating and air-conditioning equipment for industrial, commercial and public buildings. (January issue of *Heating, Piping and Air Conditioning*)  
Publ.: Reinhold Publishing Company  
600 Summer Street  
STAMFORD, Connecticut 06904, United States of America



401. **INFORMAL DIRECTORY OF THE ORGANIZATIONS AND PEOPLE INVOLVED IN THE SOLAR HEATING OF BUILDINGS**  
1975. 118 p. Lists government agencies, commercial firms, professional societies, foundations, individual engineers and architects involved in solar heating in the United States.  
Publ.: William A. Shurcliff  
19 Appleton Street  
CAMBRIDGE, Massachusetts 02138, United States of America
402. **INTERNATIONAL SOLAR ENERGY SOCIETY; UNITED STATES SECTION: DIRECTORY**  
Lists members, offices and committees.  
Publ.: International Solar Energy Society (ISES)  
United States Section  
300 State Road 401  
CAPE CANAVERAL, Florida 32920, United States of America
403. **INVENTORY OF CURRENT ENERGY RESEARCH AND DEVELOPMENT**  
Prepared for the Committee on Science and Astronautics, Subcommittee on Energy. Information about more than 4,900 energy research projects under way in the United States. Arranged by subject matter. Gives project descriptions, investigators, funding organization, amount of funds per year, location and list of publications.  
Order from:  
Superintendent of Documents  
Government Printing Office  
WASHINGTON, D.C. 20402, United States of America
404. **PRODUCING YOUR OWN POWER**  
C. STONER, ed. 1975. 283 p. Describes small-scale applications of wind, water, methane, solar and wood energy. Directory of sources.  
Publ.: Rodale Press, Inc.  
33A Minor Street  
EMMAUS, Pennsylvania 18049, United States of America
405. **PUTTING THE SUN TO WORK: A HISTORY AND DIRECTORY OF CURRENTLY AVAILABLE SOLAR ENERGY APPLICATIONS**  
Prepared by the Arizona State Fuel and Energy Office. 1974. 27 p. (No. PB-238)  
Order from:  
National Technical Information Service (NTIS)  
5285 Port Royal Road  
SPRINGFIELD, Virginia 22151, United States of America
406. **REGISTER OF SOLAR CONSULTANTS AND MANUFACTURERS**  
9 p. Complete list of firms and individuals in the United Kingdom producing and selling solar hardware.  
Publ.: International Solar Energy Society  
United Kingdom Section  
c/o The Royal Institution  
21 Albemarle Street  
LONDON W1X 4BS, England

407. **SOLAR DIRECTORY**  
C. PESKO, ed. 1975. List of academic institutions, government agencies, companies and individuals concerned with solar energy, bioconversion, thermal sea power and wind power in the United States and abroad. Brief descriptions of solar heated and/or cooled buildings. Solar energy legislation, courses and exhibition programmes. Annotated bibliography; index of organizations and individuals.  
Publ.: Ann Arbor Science Publishers, Inc.  
P.O. Box 1425  
ANN ARBOR, Michigan 48106, United States of America
408. **SOLAR ENERGY AND HOUSING: AN INTRODUCTION**  
40 p. Lists manufacturers, architects and engineers working with solar energy in housing.  
Publ.: American Institute of Architects  
Research Corporation  
1735 New York Avenue, N.W.  
WASHINGTON, D.C. 20006, United States of America
409. **SOLAR ENERGY INDUSTRIES DIRECTORY AND BUYERS' GUIDE 1977.** 276 p. Guide to manufacturers and service organizations. Covers solar water heating, space heating and cooling, swimming-pool heaters, passive systems, maintenance contractors, consulting services, photovoltaic systems and equipment, wind energy systems and products, bioconversion and solar thermal power generation.  
Publ.: Solar Energy Industries Association, Inc.  
1001 Connecticut Avenue, N.W.  
WASHINGTON, D.C. 20036, United States of America
410. **SOLAR-HEATED BUILDINGS: A BRIEF SURVEY**  
9th ed. 1975. 102 p. Covers 119 houses, schools and commercial buildings that are partially or fully solar heated.  
Publ.: William A. Shurcliff (see entry 401)
411. **A SURVEY OF SOLAR AGRICULTURAL DRYERS**  
1975. 144 p. Contains 24 case studies of small-scale agricultural dryers in developing countries with photos, construction drawings and addresses. (Brace Research Institute technical report T99)  
Publ.: Brace Research Institute  
MacDonald College  
MacGill University  
STE ANNE DE BELLEVUE 800, Quebec HOA 1CO, Canada
412. **SURVEY OF SOLAR ENERGY PRODUCTS AND SERVICES**  
Prepared for the Committee on Science and Technology of the United States House of Representatives. 1975. 545 p. Gives alphabetical list, by company, of projects in 21 categories. Categories include available solar collectors, experimental solar collectors, collectors for swimming-pools, total solar building systems, hot water heaters, components for solar building systems, control systems, cooling systems, solar energy data collection, consultants and architects, wind energy conversion,

photovoltaic conversion, bioconversion, general research and development and educational activities.

Order from:  
Superintendent of Documents (see entry 403)

413. **SYNERJY DIRECTORY**  
Every two years. Classified list of publications including government reports and various conference reports. Up-to-date list of manufacturers of solar, geothermal and wind power equipment.  
Publ.: SYNERJY  
P.O. Box 4790  
Grand Central Station  
NEW YORK, New York 10017, United States of America
414. **TOTAL ENVIRONMENTAL ACTION: PAMPHLETS**  
Pamphlets listing manufacturers and distributors of equipment for alternative energy sources.  
See: Solar energy hardware  
Wind energy hardware  
Publ.: Total Environmental Action (TEA) (see entry 389)
415. **WHOLE EARTH EPILOG**  
1974. 768 p. Source-book for tools, hardware and information on subjects including alternative energy sources. Epilog lists are revised. See: Soft technology, p. 526-545.  
Order from:  
Whole Earth Truck Store  
558 Santa Cruz  
MENLO PARK, California 94025, United States of America
416. **WINDMILL MANUFACTURERS**  
G. E. SMITH. 1974. 7 p. Lists manufacturers, researchers and marketers of windmills for electricity and water pumping.  
Publ.: University of Cambridge  
Department of Architecture  
Technical Research Division  
1 Scroop Terrace  
CAMBRIDGE CB2 1PX, England
417. **WIND POWER**  
D. M. SIMMONS. Describes the technology of wind power and its applications. Gives alphabetical list of firms in United States manufacturing wind power equipment with specifications.  
Publ.: Noyes Data Corporation  
Noyes Building  
Mill Road and Grand Avenue  
PARK RIDGE, New Jersey 07656

### SECTION III

#### SOURCES OF STATISTICS, MARKETING AND OTHER ECONOMIC DATA<sup>1</sup>

##### A. World-wide coverage

418. **L'ENERGIE SOLAIRE: PERSPECTIVES ECONOMIQUES**  
J. PERCEBOIS. 1975. 185 p. Examines technological and economic aspects of solar energy applications and assesses the possible role of solar energy within overall state energy policies. Statistical annex gives data on expenditures for research and development in the field of solar energy in the United States and country members of the Organisation for Economic Co-operation and Development (OECD).  
Publ.: Centre national de la recherche scientifique (CNRS)  
Editions du CNRS  
15, quai Anatole France  
F-75007 PARIS, France
419. **ENERGY AND THE FUTURE**  
A. L. HAMMOND *et al.* 1973. 184 p.  
Publ.: American Association for the Advancement of Science  
1776 Massachusetts Avenue, N.W.  
WASHINGTON, D.C. 20036, United States of America
420. **ENERGY FOR SURVIVAL**  
W. CLARK. 1974. 652 p. Survey of all renewable energy technologies. Fives development of energy alternatives through intermediate technology and economic and political decentralization.  
Publ.: Doubleday and Company, Inc.  
277 Park Avenue  
NEW YORK, New York 10017, United States of America
421. **ENERGY POLICY**  
Quarterly. Gives the economics and planning of the production, conversion and use of energy. Also examines non-conventional sources.  
Publ.: IPC Science and Technology Press  
205 East 42nd Street  
NEW YORK, New York 10017, United States of America

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<sup>1</sup> Most publications giving energy statistics cover conventional energy sources only. In some cases geothermal energy is included in overall statistics on primary sources of electricity but no breakdown is given.

422. **ENERGY: THE NEW AREA**  
 S. D. FREEMAN. 1974. 386 p. Economic and policy study with forecasts on energy to 1985. Chapter 12, "Tapping the eternal energy supplies", examines geothermal and solar energy and nuclear fusion.  
 Publ.: Walker Publishing Company  
 720 Fifth Avenue  
 NEW YORK, New York 10019, United States of America
423. **ENERGY: THE SOLAR PROSPECT**  
 D. HAYES. 1977. 79 p. Examines the economic advantages of solar heating and cooling, the use of solar energy for the production of electricity, of wind and plant power (biomass). (Worldwatch paper 11)  
 Publ.: Worldwatch Institute  
 1776 Massachusetts Avenue, N.W.  
 WASHINGTON, D.C. 20036, United States of America
424. **PERSPECTIVES ON ENERGY: ISSUES, IDEAS AND ENVIRONMENTAL DILEMMAS**  
 L. C. RUEDESILI and M. W. FIREBAUGH. 1975. 527 p. Current analyses on major energy issues. Reviews conventional sources of energy. See: Alternative energy sources (solar, geothermal, tidal, wind power, hydrogen economy, power from trash) and their potentials, chapter 4.  
 Publ.: Oxford University Press  
 Press Road, Neasden  
 LONDON NW10, England
425. **A PRELIMINARY TECHNOLOGY ASSESSMENT OF OCEAN THERMAL GRADIENT ENERGY GENERATION**  
 Prepared under the Energy Alternatives Program of the University of Massachusetts. P. D. CLOUTIER. 1974. 197 p. Reviews status of ocean thermal gradient technology and shows its place in the development of alternative energy policies. (NSF/RANN/SE/GI-34979/TR/74/1)  
 Publ.: National Science Foundation (NSF)  
 Research Applied to National Needs (RANN)  
 1800 G Street, N.W.  
 WASHINGTON, D.C. 20550, United States of America
426. **SOLAR ENERGY TASK PROGRESS REPORT FOR 1975/76: EVALUATION OF SOLAR ENERGY OPTIONS**  
 C. R. BELL. 1977. 35 p. Evaluation of solar options as potential source for meeting energy supply requirements, with emphasis on contemporary concepts in the solar thermal and photovoltaic systems and their constraints. (IIASA Research Memorandum RM77-20)  
 Publ.: International Institute for Applied Systems Analysis (IIASA)  
 A-2361 LAXENBURG, Austria
427. **STATISTICAL YEARBOOK/ANNUAIRE STATISTIQUE**  
 Prepared by the Statistical Office of the United Nations. Annual. In English and French. Statistics on population, manpower, manufacturing, production and trade for all countries. (Sales No. 76.XVII.1)  
 See: Electric energy: installed capacity; geothermal *Table No.* 144  
 Electric energy; geothermal 145

Publ.: United Nations  
Sales Section  
NEW YORK, New York 10017, United States of America

*B. Regional coverage*

428. ENERGY AND AGRICULTURE IN THE THIRD WORLD  
A. MAKHIJANI and A. POOLE. 1975. 168 p. Assesses rural energy needs in Africa, China, India and Latin America. Reviews potentials for fuel in agriculture: solar energy, use of biological materials (biogas).  
Publ.: Ballinger Publishing Company  
Harvard Square  
CAMBRIDGE, Massachusetts 02138, United States of America
429. ENERGY FOR RURAL DEVELOPMENT: RENEWABLE RESOURCES AND ALTERNATIVE TECHNOLOGIES FOR DEVELOPING COUNTRIES  
1976. 306 p. Report of the Advisory Committee on Technology and Innovation of the National Academy of Sciences. Technical and economic evaluation of the applicability of systems to developing countries, based on solar energy, wind power, hydropower, photosynthesis, bioconversion and geothermal energy.  
Order from:  
Agency for International Development  
Technical Assistance Bureau  
Office of Science and Technology  
WASHINGTON, D.C. 20523, United States of America
430. IS THERE A PLACE FOR THE WINDMILL IN THE LESS DEVELOPED COUNTRIES?  
M. MERRIAM. 1972. 36 p. Study of economics of windmills in developing countries. (Technology and Development Institute working paper series No. 20)  
Publ.: East-West Center  
Technology and Development Institute  
1777 East-West Road  
HONOLULU, Hawaii 96822, United States of America
431. SOLAR ENERGY IN DEVELOPING COUNTRIES: PERSPECTIVES AND PROSPECTS  
1972. 49 p. Report of an *ad hoc* advisory panel of the Board of Science and Technology for International Development, National Academy of Sciences. Study of potentials for solar energy utilization in developing countries.  
See: Appendix A: Data on solar energy utilization in Central and West Africa.  
Appendix B: Data on solar energy utilization in India.  
Publ.: National Academy of Sciences  
2101 Constitution Avenue  
WASHINGTON, D.C. 20418, United States of America



Order from:  
Office des publications officielles des communautés européennes  
B.P. 1003  
LUXEMBOURG 1, Luxembourg

437. **ENERGY PROSPECTS TO 1985**  
Prepared by the Organisation for Economic Co-operation and Development (OECD). 1974. 2 vols. Covers the assessment of long-term energy developments and related policies. Vol. 2 examines each energy source and the last chapter deals with solar and geothermal energy and potentials for development and costs.  
Publ.: Organisation for Economic Co-operation and Development (OECD)  
Château de la Muette  
2, rue André Pascal  
F-75775 PARIS, cedex 16, France
438. **ENERGY R & D**  
Prepared by the Organisation for Economic Co-operation and Development (OECD). 1975. 243 p. Analyses the problems involved in formulation and implementation of a scientific and technological research policy covering energy and elucidates the interaction between research and development and economic and political factors. Part 2 examines, among others, the scientific and technological prospects of new energy sources: geothermal, solar, bioconversion, energy from tides, ocean thermal gradients. Part 3 provides data on energy research and development policies in countries members of the OECD. Tables on research and development expenditures by country.  
Publ.: Organisation for Economic Co-operation and Development (OECD) (see entry 437)
439. **ENERGY STATISTICS YEARBOOK 1970-1975**  
Prepared by the Statistical Office of the European Communities. 1976. 294 p. In Danish, Dutch, English, French, German and Italian. Survey of energy economics for the communities and each member country.  
See: Characteristics of electrical energy and balance sheets for each country with geothermal breakdown p. 213-219  
Tables on total net production of hydro-electrical, geothermal and nuclear energy p. 224-225  
Order from:  
Office des publications officielles des communautés européennes  
(see entry 436)
440. **QUARTERLY BULLETIN OF ENERGY STATISTICS**  
Prepared by the Statistical Office of the European Communities. Quarterly. In Danish, Dutch, English, French, German and Italian. Gives the "overall energy balance sheet" concerning major items of energy supplies, for the community and for each member country. See: Electrical energy.  
Order from:  
Office des publications officielles des communautés européennes  
(see entry 436)



*C. National coverage*

*Canada*

441. STATISTICS CANADA: ENERGY STATISTICS  
Fourty times a year. (Catalogue 57-002)  
Publ.: Statistics Canada  
Publications Distribution Unit  
OTTAWA, Ontario K1A OT6

*France*

442. SYNTHESES ET PERSPECTIVES  
No. 4. November 1975. 67 p. See: La crise de l'énergie: et maintenant.  
Evaluates potential role of solar energy.  
Publ.: Société d'études économiques et financières  
21, rue Jean Mermoz  
F-75008 PARIS

*Hungary*

443. ENERGIAGAZDALKODAS (Energy economy)  
Monthly. Text in Hungarian; contents in English, German and Russian.  
Order from:  
Kultura  
Box 149  
H-1389 BUDAPEST 62

*India*

444. BIOGAS: ACHIEVEMENTS AND CHALLENGES  
M. A. SATHIANATHAN. 1975. 192 p. Surveys the performance of  
present biogas plants in India. Stresses the need for research and  
development and for appropriate infrastructure and financing.  
Publ.: Sagar Printers and Publishers  
1880 Udaichand Marg  
Kotla Mubarakpur  
NEW DELHI 110 003
445. THE ECONOMICS OF COW DUNG GAS PLANTS  
Publ.: Indian Council of Agricultural Research (ICAR)  
Krishi Bhavan  
NEW DELHI 1
446. INDIA: THE ENERGY SECTOR  
P. D. HENDERSON. 1975. 185 p. Study of energy sources and  
consumption policy. Includes non-traditional energy forms.  
Publ.: International Bank for Reconstruction and Development (IBRD)  
1818 H Street, N.W.  
WASHINGTON, D.C. 20433, United States of America

*Iraq*

447. COST AND PERFORMANCE OF SOLAR WATER HEATERS IN IRAQ  
A.E.A. ALMAINI. 1973. 10 p. (Research paper RP19/73)  
Publ.: Scientific Research Foundation  
Building Research Centre  
BAGHDAD

*Ireland*

448. SOLAR ENERGY FOR IRELAND  
E. LALOR. 1975. 64 p. Report to the National Science Council.  
Publ.: Government Publications Sales Office  
Arcade  
DUBLIN 1

*United Kingdom of Great Britain and Northern Ireland*

449. GEOTHERMAL ENERGY: THE CASE FOR RESEARCH IN THE UK  
J. D. GARNISH. 1976. 66 p. Report prepared by the Energy Technology Support Unit for the Department of Energy. Preliminary assessment of technical and economic feasibility of extracting geothermal energy in United Kingdom. Defines size, distribution and availability of potential sources. (Energy paper No. 9)  
Order from:  
Her Majesty's Stationery Office  
49 Holborn  
LONDON WC1V 6HB
450. SOLAR ENERGY: A UK ASSESSMENT  
Prepared by the United Kingdom Section of the International Solar Energy Society. 1976. 375 p. Analyses solar energy systems and tries to assess the potential for solar energy utilization, research and development need in United Kingdom and for export.  
Publ.: International Solar Energy Society (ISES)  
United Kingdom Section  
c/o The Royal Institution  
21 Albemarle Street  
LONDON W1X 4BS

*United States of America*

451. ANNUAL REVIEW OF ENERGY  
J. M. HOLLANDER, ed. 1976. 793 p. Describes components of United States energy system and discusses issues involved in determining its future. Includes discussion of solar, geothermal and waste energy.  
Publ.: Annual Reviews, Inc.  
4139 El Camino Way  
PALO ALTO, California 94306

452. **AN ASSESSMENT OF SOLAR ENERGY AS A NATIONAL ENERGY RESOURCE**  
P. DONAVAN *et al.* 1972. 85 p. Report of the Solar Energy Panel of the National Science Foundation and the National Aeronautics and Space Administration. (Report No. NSF/RANN-73-001)  
Order from:  
United States Department of Commerce (see entry 434)
453. **NATIONAL ENERGY OUTLOOK**  
1976. 323 p. Federal energy forecast to 1985. Reviews each energy source and discusses emerging technologies: solar, geothermal and synthetic fuels.  
Order from:  
Superintendent of Documents  
Government Printing Office  
WASHINGTON, D.C. 20402
454. **SEMI-ANNUAL SURVEY OF SOLAR COLLECTOR MANUFACTURING ACTIVITY**  
Twice a year.  
Publ.: United States Federal Energy Administration  
WASHINGTON, D.C. 20461
455. **SOLAR ENERGY TO MEET THE NATION'S ENERGY NEEDS**  
F. ROM *et al.*  
Order from:  
United States Department of Commerce (see entry 434)
456. **A TIME TO CHOOSE: AMERICAN ENERGY FUTURE**  
1974. 511 p. Final report of the energy policy project of the Ford Foundation. Reports on relationship of energy, employment and economic growth. Examines United States energy policy, energy and environment utility regulations, private enterprise, public interest and energy research and development.  
Publ.: Ballinger Publishing Company (see entry 428)
457. **THE US SOLAR POWER MARKET**  
1976. (Report No. 348.)  
Publ.: Frost and Sullivan, Inc.  
106 Fulton Street  
NEW YORK, New York 10038

## SECTION IV

### BASIC HANDBOOKS, TEXTBOOKS AND MANUALS

458. ABELSON, P. H., ed. Energy: use, conservation and supply. Washington, D. C., American Association for the Advancement of Science, 1974. 154 p.
459. ALDUS, P. G. Solenergi (Solar energy). Stockholm, Bonnier, 1966.
460. ANDERSON, B. Solar energy: fundamentals in building design. New York, McGraw-Hill. 350 p.
461. \_\_\_\_\_ Solar home book. Chester, England, Cheshire Books. 304 p.
462. ASHRAE. Solar energy applications. New York, American Society of Heating, Refrigeration and Air Conditioning Engineers, 1974.
463. \_\_\_\_\_ Solar energy utilization for heating and cooling. New York, American Society of Heating, Refrigeration and Air Conditioning Engineers.
464. AUERBACH, L. A homesite power unit: methane generator. Madison, Connecticut, Les Auerbach, 1973. 50 p.
465. BACKUS, C. E., ed. Solar cells, New York, Institute of Electrical and Electronics Engineers Press, 1976. 504 p.
466. BARKER, H. A. Bacterial fermentations. New York, Wiley, 1956.
467. BAUM, V. A. Preobrazovateli solnechoi energii na poluprovodnikakh. Moscow, Nauka Press, 1968. In English: Semiconductor solar energy converters. New York, Consultants Bureau, 1969.
468. BAUM, V. A. *et al.* Solar energy utilization. Moscow, Academy of Sciences of the USSR, 1957. 248 p.
469. BEHRMAN, D. Solar energy: the awakening science. Boston, Massachusetts, Little, Brown and Company, 1976. 365 p.
470. BELL, C. *et al.* Methane: fuel of the future. An assessment. Dorchester, England, Prism Press, 1973. 85 p.
471. BERMAN, E. R. Geothermal energy. Park Ridge, New Jersey, Noyes Data Corporation, 1975. 336 p. (Energy technology review No. 4)

472. BOCKRIS, J. O. M. Energy: the solar hydrogen alternative. New York, Wiley, 1976. 365 p.
473. BOYLE, G. and P. HARPER. Radical technology. Uley, Gloucestershire, England, Undercurrent Books, 1976.
474. BRACE RESEARCH INSTITUTE. Handbook on appropriate technology. Ste Anne de Bellevue, Quebec, McGill University, 1976. 200 p.
475. BRINKWORTH, B. J. Solar energy for man. New York, Wiley, 1973. 264 p.
476. CARTER, J. R. and H. W. TADA. Solar cell radiation handbook. Pasadena, California, California Institute of Technology, Jet Propulsion Laboratory, 1973.
477. CLEWS, H. Electric power from the wind. East Holden, Maine, Solar Wind Company, 1973. 29 p.
478. COONLEY, D. R. Design with wind. Harrisville, New Hampshire, Total Environmental Action, 1974. 140 p.
479. DANIELS, F. Direct use of the sun's energy. New York, Ballantine Books, 1974.
480. DANIELS, G. Solar homes and sun heating. New York, Harper and Row, 1976. 178 p.
481. DAVIS, A. J. and R. P. SHUBERT. Alternative energy sources in building design. Blacksburg, Virginia, Alternative Energy Sources in Building Design, 1974.
482. DIENERT, W. *et al.* Research applied to solar thermal power systems, Minneapolis, Minnesota, Minnesota University Press, 1973. 286 p.
483. DUFFIE, J. A. and W. A. BECKMAN. Solar energy thermal processes. New York, Wiley, 1974. 386 p.
484. DUGAS, D. J. Fuel from organic matter. Santa Monica, California, Rand Corporation, 1973. 24 p.
485. ERNLE-DRAX, R. P. A handbook of solar heating. Poole, Dorset, England, J. Looker, 1963.
486. FRAENKEL, P. Food from windmills. London, Intermediate Technology Development Group, 1975. 75 p.
487. FRY, J. L. Practical building of methane power plants for rural energy independence. Menlo Park, California, Whole Earth Truck Store, 1974. 96 p.
488. GOLDING, E. W. The generation of electricity by wind power. New York, Philosophical Library, 1965. 318 p.
489. GOLUEKE, C. G. Composting: a study of the process and its principles. Emmaus, Pennsylvania, Rodale Press, 1972. 110 p.

490. GRAY, T. J. and O.,K. GASHUS, eds. Tidal power. New York, Plenum Press, 1972. 630 p.
491. HACKLEMAN, M. and D. HOUSE. A home built, wind-generated electricity handbook. Culver City, California, Peace Press, 1975. 193 p.
492. \_\_\_\_\_ Wind and windspinners. Culver City, California, Peace Press, 1974. 115 p.
493. HALACY, D. C. The coming age of solar energy. New York, Harper and Row, 1973.
494. \_\_\_\_\_ Power from the sun. London, John Murray, 1962.
495. \_\_\_\_\_ Solar science projects. Englewood Cliffs, New Jersey, Scholastic Book Services, 1974. 95 p.
496. HOKE, J. Solar energy. New York, Franklin Watts, 1968.
497. JORDAN, R. C., ed. Low temperature engineering application of solar energy. New York, American Society of Heating, Refrigeration and Air Conditioning Engineers, 1967. 78 p.
498. KREIDER, J. F. and F. KREITH. Solar heating and cooling: engineering, practical design and economics. Washington, D.C., Scripta, 1975. 342 p.
499. KRUGER, P. and C. OTTE, eds. Geothermal energy: resources, production and stimulation. Stanford, California, Stanford University Press, 1973. 360 p.
500. LANDA, H. Solar energy handbook. Milwaukee, Wisconsin, FICOA, 1974.
501. LECKIE, J. *et al.* Other homes and garbage. Menlo Park, California, Whole Earth Truck Store, 1975.
502. LIOR, N. and A. P. SAUNDERS. Solar collector performance studies. Philadelphia, Pennsylvania, University of Pennsylvania, 1974.
503. MCCALLUM, B. Environmentally appropriate technology. Ottawa, Canada. Advanced Concepts Centre, Department of the Environment, 1975. 160 p.
504. MCVEIGH, J. C. Sun power. Oxford, Pergamon Press. 190 p.
505. MEADOR, R. Future energies. Ann Arbor, Michigan, Ann Arbor Science Publishers.
506. MOTHER EARTH NEWS STAFF. Handbook of home-made power. New York, Bantam Books, 1974. 367 p.
507. OLGAYAY and OLGAYAY. Solar control and shading devices. Princeton, New Jersey, Princeton University Press, 1957. 201 p.
508. PATTON, A. R. Solar energy for heating and cooling of buildings. Park Ridge, New Jersey, Noyes Data Corporation, 1975. 328 p. (Energy technology review No. 7)

509. PERROT, M. La houille d'or ou l'énergie solaire. Paris, Editions Fayart, 1963. 158 p.
510. PEYTURAUX, R. L'Energie solaire. Paris, Presses Universitaires de France, 1968. (Collection Que sais-je? No. 1294)
511. PORTOLA INSTITUTE. Energy primer: solar, water, wind and biofuels. Menlo Park, California, 1975. 200 p.
512. PRENIS, J., ed. Natural sources and backyard applications. Philadelphia, Pennsylvania, Running Press, 1975. 112 p. (Energy book No. 1)
513. PUTMAN, P. C. Power from the wind. New York, Van Nostrand-Reinhold, 1948. 224 p.
514. RAM BUX SINGH. Biogas plant: generating methane from organic wastes. Etawah, India, Gobar Gas Research Station, 1971. 70 p.
515. \_\_\_\_\_ Biogas plant designs with specifications. Etawah, India, Gobar Gas Research Station, 1973. 49 p.
516. RANNEY, N. W. Solar cells. Park Ridge, New Jersey, Noyes Data Corporation, 1969.
517. RAU, H. Solar energy. New York, Macmillan, 1964. In German: Heliotechnik. Munich, Udo Pfriemer Verlag.
518. REYNOLDS, J. Windmills and water-mills. Springfield, Massachusetts, Praeger Publishers, 1970. 196 p.
519. RIGHINI, G. and G. NEBBIA. L'energia solare e le sue applicazioni (Solar energy and its applications). Milan, Feltrinelli, 1966. 231 p.
520. ROBINSON, N. Solar radiation. London, Elsevier, 1966.
521. SABRIANA, M. J. Large-scale composting. Park Ridge, New Jersey, Noyes Data Corporation, 1974. 269 p. (Pollution technology review No. 12)
522. SIMMONS, D. M. Wind power. Park Ridge, New Jersey, Noyes Data Corporation, 1975. 300 p. (Energy technology review No. 6)
523. STONER, C., ed. Producing your own power. Emmaus, Pennsylvania, Rodale Press, 1975. 283 p.
524. SUTTON, G. W. Direct energy conversion. New York, McGraw-Hill, 1966.
525. SZOKOLAI, S. V. Solar energy and building. London, Architectural Press, 1975.
526. TALBERT, S. G., J. A. EBLING and G. O. G. LOEF. Manual on solar distillation of saline water. Columbus, Ohio, Battelle Memorial Institute, 1971. (Report to the United States Department of the Interior No. 546)
527. THRELKELD, J. L. Thermal environmental engineering. Englewood Cliffs, New Jersey, Prentice-Hall, 1970.

528. VEYNBERG, V. R. Optics in solar processes. Moscow, State Publishing Office of the Defense Ministry, 1959. (English translation No. 255-609, Washington, D.C., United States Department of Commerce)
529. VEZIROGLU, T. Hydrogen energy. New York, Plenum Press, 1975. 2 vols.
530. VITA. Village technology handbook. Mount Rainier, Maryland, 1970. 387 p.
531. VOEGELI, H. E. and J. J. TARRANT. Survival 2001: scenario from the future. New York, Van Nostrand-Reinhold, 1975. 115 p.
532. WILLIAMS, J. R. Solar energy technology and applications. Ann Arbor, Michigan, Ann Arbor Science Publishers, 1974.
533. ZAREM, A. M. and D. D. ERWAY. Introduction to the utilization of solar energy. New York, McGraw-Hill, 1963. 398 p.
534. SELITSCH, I. Photosynthesis, photorespiration and plant productivity. New York, Academic Press, 1971.



## SECTION V

### MONOGRAPH SERIES

535. **ASME PAPERS**  
Gives various engineering aspects of solar energy applications. (SOL series)  
Solar heat storage (PAP-64-WA/SOL.9)  
Effects of pollution on solar energy (PAP-71-WA/SOL.12)  
Economic power and water from solar energy. 1972 (PAP-72-WA/SOL.2)  
Publ.: American Society of Mechanical Engineers (ASME)  
345 East 47th Street  
NEW YORK, New York 10017, United States of America
536. **BOARD ON SCIENCE AND TECHNOLOGY FOR INTERNATIONAL DEVELOPMENT, NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL: ADVISORY STUDIES AND SPECIAL REPORTS**  
No. 1: United States International firms and R, D and E in developing countries. 1973. 92 p.  
No. 2: Energy for rural development: renewable resources and alternative technologies for developing countries. 1976. 306 p. (see entry 394)  
No. 3: Solar energy in developing countries: perspectives and prospects. 1972. 49 p. (see entry 431)  
Publ.: National Academy of Sciences  
2101 Constitution Avenue  
WASHINGTON, D.C. 20418, United States of America
537. **BRACE RESEARCH INSTITUTE: DO-IT-YOURSELF LEAFLETS**  
In English and French. Gives instructions and drawings.  
L.1: How to make a solar still. 1973.  
L.2: How to make a solar steam cooker. 1972. 6 p.  
L.3: How to heat your swimming-pool using solar energy. 1973.  
L.4: How to build a solar water heater. 1965. 12 p.  
L.5: How to construct a cheap wind machine for pumping water. 1973. 14 p.  
L.6: How to make a solar cabinet dryer for agricultural produce. 1973.

Publ.: Brace Research Institute  
MacDonald College  
MacGill University  
STE ANNE DE BELLEVUE 800, Quebec HOA 1C0, Canada

538. BRACE RESEARCH INSTITUTE: TECHNICAL REPORTS

T17: Simple solar still for the production of distilled water.  
1967. 6 p.

T56: Current state of wind power research in the Soviet Union.

T58: Plans for a glass and concrete solar still. 1972. 8 p.

T84: The status of solar refrigeration and air-conditioning.  
1973. 10 p.

T99: A survey of solar agricultural dryers. 1975.

Publ.: Brace Research Institute (see entry 537)

539. BUILDING RESEARCH STATION DIGESTS

Occasionally deal with solar energy applications to architecture.

Window design and solar heat gain.

Publ.: Building Research Establishment  
Building Research Station  
GARSTON, Lancashire WD2 7JR, England

540. CASHIERS DE L'AFEDDES

Issued by the Association française pour l'étude et le développement de  
l'énergie solaire. Irregular.

No. 1: Le rayonnement solaire et ses mesures. 1968.

No. 2: Les effets photovoltaïques; leurs applications en milieu  
spatial et au sol. 1970.

No. 3: Méthodes et concentration de l'énergie solaire. 1971.

Publ.: Editions européennes thermique et industrie  
2, rue des Tanneries  
F-75013 PARIS, France

541. CIRCULARS AND ENGINEERING DEVELOPMENT REPORTS

Prepared by the Commonwealth Scientific and Industrial Research  
Organization (CSIRO), Division of Mechanical Engineering. Irregular.

Circular No. 2: Solar water heaters. 1964. 16 p.

Publ.: Commonwealth Scientific and Industrial Research Organization  
(CSIRO)  
Division of Mechanical Engineering  
P.O. Box 26  
Graham Road  
HIGHETT, Victoria 3190, Australia

542. ELECTRICAL RESEARCH ASSOCIATION: REPORTS

Deal occasionally with non-conventional energy sources.

Wind power sites. (Report C/T 108 and Report C/T 111)

Publ.: Electrical Research Association  
Cleve Road  
LEATHERHEAD, Surrey KT22 7SA, England

543. **ELECTRICITE DE FRANCE: ETUDES**  
Irregular. Some issues deal with solar technology.  
Publ.: Electricité de France  
Direction des études et recherches  
EDF Renardières  
F-77250 ECUEILLES, France
544. **GOBAR GAS SCHEME: INFORMATION LEAFLETS**  
Cover bioconversion and its application in India.  
Details of efficient gas appliances used for gobar gas  
Gobar gas: manure for farm and fuel for cooking  
Gobar gas: why and how  
History of the development of the gobar scheme in India  
Set of four-dimensional drawings  
Publ.: Khadi and Village Industries Commission  
Gramodaya  
3 Irla Road  
Vile Parle West  
BOMBAY 400 056, India
545. **INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR) SERIES**  
Irregular. Issues deal with composting and methane production.  
Publ.: Indian Council of Agricultural Research (ICAR)  
Krishi Bhavan  
NEW DELHI 1, India
546. **INFORMAL WORKING BULLETIN**  
Prepared by the Food and Agriculture Organization of the United Nations (FAO), Agriculture and Engineering Branch, Land and Water Development Division. Irregular. Some issues deal with solar and wind energy.  
Publ.: Food and Agriculture Organization of the United Nations (FAO)  
Via delle Terme di Caracalla  
I-00100 ROME, Italy
547. **INTERNATIONAL SOLAR ENERGY SOCIETY (ISES), UNITED KINGDOM SECTION: PAPERS**  
Irregular.  
No.C2: Low temperature thermal collection of solar energy in the United Kingdom. 1974. 72 p.  
No.C3: Solar energy utilization. 1974. 100 p.  
No.C5: Processing meteorological data for solar energy applications with special reference to the United Kingdom. 1975. 59 p.  
No.6: Solar energy, architecture and planning. 1975. 53 p.  
Publ.: International Solar Energy Society (ISES)  
United Kingdom Section  
c/o The Royal Institution  
21 Albemarle Street  
LONDON W1X 4BS, England
548. **NEW ALCHEMY INSTITUTE NEWSLETTER**  
Irregular. Includes theoretical and practical aspects of bioconversion.

- Newsletter No. 3: Methane digesters for fuel gas and fertilizer.  
1973. 44 p.  
Publ.: New Alchemy Institute West  
P.O. Box 376  
PESCADERO, California 94060, United States of America
549. **SOLAR APPLICATIONS LABORATORY PAPERS**  
Irregular. Covers solar technology.  
A rational method for evaluating the solar power generation concept. (Paper E.143)  
Publ.: Colorado State University  
Solar Applications Laboratory  
FORT COLLINS, Colorado 80523, United States of America
550. **SOLAR ENERGY STUDIES**  
Prepared by the Commonwealth Scientific and Industrial Research Organization (CSIRO).  
The determination of an hourly solar radiation incident upon an inclined plane from hourly measured global horizontal insolation. 1975. 33 p. (SES Report No. 75/4)  
Publ.: Commonwealth Scientific and Industrial Research Organization (CSIRO)  
Solar Energy Studies Unit  
P.O. Box 89  
314 Albert Street  
EAST MELBOURNE, Victoria 3002, Australia
551. **SUNWORKS TECHNICAL PUBLICATIONS**  
Engineering papers with designs.  
Design criteria for solar heated buildings  
Sunworks flat-plate solar heat collector  
Publ.: Sunworks  
669 Boston Post Road  
GUILFORD, Connecticut 06437, United States of America
552. **UNIVERSITY OF CALIFORNIA: SERL REPORTS AND TECHNICAL BULLETINS**  
Comprehensive studies on waste management.  
Publ.: University of California  
Sanitary Engineering Research Laboratory (SERL)  
Richmond Field Station  
1301 South 46th Street  
RICHMOND, California 94804, United States of America
553. **UNIVERSITY OF CAMBRIDGE, DEPARTMENT OF ARCHITECTURE: WORKING PAPERS**  
No. 3: Economics of solar collectors, heat pumps and generators. 1973. 31 p.  
No. 6: Economics of water collection and waste recycling.  
Publ.: University of Cambridge  
Department of Architecture  
Technical Research Division  
1 Scroop Terrace  
CAMBRIDGE CB2 1PX, England

554. **UNIVERSITY OF DELAWARE, INSTITUTE OF ENERGY CONVERSION: PUBLICATIONS**  
 Irregular.  
 No. 165: Direct solar energy conversion for terrestrial use.  
 No. 166: A solar house system providing supplement energy for consumers and peak-shaving with power-on-demand capability for utilities.  
 Publ.: University of Delaware  
 Institute of Energy Conversion  
 70 South Chapel Street  
 NEWARK, Delaware 19711, United States of America
555. **UNIVERSITY OF FLORIDA, SOLAR ENERGY LABORATORY: PUBLICATIONS**  
 B-18: Domestic solar water heating in Florida. 1957.  
 L-83: Practical applications of solar energy. 1956.  
 T-439: Solar energy conversion and utilization. 1969.  
 T-457: Design and performance of a compact refrigeration system. 1970.  
 Publ.: University of Florida  
 Engineering Information and Publications Office  
 GAINESVILLE, Florida 32611, United States of America
556. **UNIVERSITY OF QUEENSLAND: SOLAR RESEARCH NOTES**  
 Irregular.  
 Publ.: University of Queensland  
 Department of Mechanical Engineering  
 ST. LUCIA, Queensland 4067, Australia
557. **UNIVERSITY OF WISCONSIN, ENGINEERING EXPERIMENT STATION: REPORTS**  
 No. 21: World distribution of solar radiation. 1966. 59 p.  
 Publ.: University of Wisconsin Press  
 MADISON, Wisconsin 53706, United States of America
558. **VITA LEAFLETS AND BOOKLETS**  
 In English, French and Spanish.  
 Solar cooker construction manual. 1975. 18 p.  
 Low cost windmill for developing nations. 40 p.  
 Publ.: Volunteers in Technical Assistance (VITA)  
 3706 Rhode Island Avenue  
 MOUNT RAINIER, Maryland 20822, United States of America
559. **ZOMEWORKS PLANS**  
 P.01: Solar water heating plans. 1974.  
 P.02: Breadbox water heating plans. 1974.  
 P.04: "Drumwall" solar plans. 1974.  
 Publ.: Zomeworks Corporation  
 P.O. Box 712  
 ALBUQUERQUE, New Mexico 87103, United States of America

## SECTION VI

### CURRENT PERIODICALS

#### *A. Journals dealing specifically with non-conventional energy sources*

560. **ADVANCED SOLAR ENERGY TECHNOLOGY**  
Monthly. Covers significant developments throughout the world, involving solar energy of all types: heating, cooling, wind energy conversion, bioconversion to fuels, solar thermal conversion and photovoltaic conversion.  
Publ.: Advanced Solar Energy Technology  
1609 West Windrose  
PHOENIX, Arizona 85029, United States of America
561. **ALTERNATIVES**  
Quarterly. Covers energy resource development, with special emphasis on Canada.  
Publ.: Alternatives, Inc.  
Trent University  
PETERBOROUGH, Ontario, Canada
562. **ALTERNATIVE SOURCES OF ENERGY**  
Quarterly. Focuses on alternative, environmentally sound technologies in all basic fields. Technical "do-it-yourself" articles.  
Publ.: Alternative Sources of Energy  
Route 2, Box 90A  
MILACA, Minnesota 56353, United States of America
563. **APPLIED SOLAR ENERGY: HELIOTECHNOLOGY**  
Every two months. English translation of the Russian journal *Geliotekhnika*, issued by the Academy of Sciences of the Uzbekistan Soviet Socialist Republic. Covers solar technology development in Union of Soviet Socialist Republics.  
Publ.: Allerton Press  
150 Fifth Avenue  
NEW YORK, New York 10011, United States of America
564. **APPROPRIATE TECHNOLOGY**  
Quarterly. A medium of communication for people involved in development and dissemination of appropriate intermediate level technologies in developing countries. Technical news and book reviews.  
Publ.: Intermediate Technology Publications Ltd  
9 King Street  
LONDON WC2E 8HN, England

565. **BIOGAS**  
 Prepared by the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP). Irregular. Newsletter on biogas technology and utilization in Asian region. Gives plant designs with construction notes, economic aspects of biogas plants, regional developments on biogas and research reports.  
 Publ.: ESCAP/UNIDO Division of Industry Housing and Technology  
 United Nations Building  
 BANGKOK 2, Thailand
566. **BIOMASS ENERGY INSTITUTE NEWSLETTER**  
 Three times a year. Covers biomass energy developments in Canada.  
 Publ.: Biomass Energy Institute  
 P.O. Box 129, Postal Station C  
 WINNIPEG, Manitoba R3M 3S7, Canada
567. **BRACE RESEARCH INSTITUTE: ANNUAL REPORT**  
 Annual.  
 Publ.: Brace Research Institute  
 MacDonald College  
 MacGill University  
 STE ANNE DE BELLEVUE 800, Quebec HOA 1C0, Canada
568. **COMPENDIUM: WIND AND SOLAR ENERGY FOR WATER PUMPING**  
 Irregular. Newsletter issued by the TOOL Foundation. Notes on organization and experimental results.  
 Publ.: Stichting TOOL  
 P.O. Box 525  
 EINDHOVEN, Netherlands
569. **COMPLES BULLETIN**  
 Prepared by the Coopération méditerranéenne pour l'énergie solaire. Irregular. In French. Technical journal covering solar technologies in the Mediterranean area.  
 Publ.: Coopération méditerranéenne pour l'énergie solaire (COMPLES)  
 Paseo del Pinto Rosales 34  
 MADRID 8, Spain
570. **ENERGIES**  
 Issued by the Solar Energy Society of America. Every two months. Covers new developments in energy fields, particularly unconventional forms; reports on new hardware for energy conversion.  
 Publ.: Solar Energy Society of America  
 P.O. Box 4264  
 TORRANCE, California 90510, United States of America
571. **ENERGY PERSPECTIVES**  
 Monthly. Covers geothermal, solar and tidal energy. Bibliography.  
 Publ.: Battelle Memorial Institute Energy Program  
 505 King Avenue  
 Columbus, Ohio 43201, United States of America

572. **ENVIRONMENT CANADA, ATMOSPHERIC ENVIRONMENT: MONTHLY RADIATION SUMMARY/ENVIRONNEMENT CANADA, ENVIRONNEMENT ATMOSPHERIQUE: SOMMAIRE DU RAYONNEMENT MENSUEL**  
 Monthly. In English and French. Provides data from measurements at Canadian stations at the end of each month.  
 Publ.: Atmospheric Environment Service  
 4905 Dufferin Street  
 DOWNSVIEW, Ontario M3H 5T4, Canada
573. **GELIOTEKNIKA (Heliatechnology)**  
 Issued by the Academy of Sciences of the Uzbekistan Republic. Every two months. Covers solar technology development in Union of Soviet Socialist Republic. English edition, *Applied Solar Energy: Helio-technology* (see entry 563).  
 Publ.: Academy of Sciences of the Uzbekistan Soviet Socialist Republic  
 TASHKENT, Union of Soviet Socialist Republics
574. **GEOHERMAL ENERGY**  
 Monthly. Covers all aspects of geothermal developments in United States and abroad.  
 Publ.: Sam Dermengian  
 318 Cherrywood Street  
 WEST COVINA, California 91791, United States of America
575. **GEOHERMICS**  
 Prepared by the International Institute of Geothermal Research. Quarterly. Text and summary in English and French. Available on microfilm.  
 Publ.: Pergamon Press, Inc.  
 Fairview Park  
 ELMSFORD, New York 10523, United States of America
576. **GREEN REVOLUTION**  
 Every two months. Covers decentralized technologies applied to unconventional energy conversion, especially those using solar, wind and water-power.  
 Publ.: School of Living  
 P.O. Box 129, Route 1  
 FREELAND, Maryland 21053, United States of America
577. **HYDROGEN ENERGY**  
 Issued by the International Association for Hydrogen Energy. Quarterly. Reports on regional, analytical and experimental research on various aspects of hydrogen energy: production, storage, transmission, utilization, economic and environmental aspects. International coverage. Bibliography.  
 Publ.: Pergamon Press, Inc.  
 Headington Hill Hall  
 OXFORD, OX3 0BW, England
578. **INTERNATIONAL SOCIETY FOR GEOTHERMAL ENGINEERING: TRANSACTIONS**  
 Twice a year.



- Publ.: International Society for Geothermal Engineering  
P.O. Box 4743  
WHITTIER, California 90607, United States of America
579. **ISES NEWSLETTER**  
Quarterly.  
Publ.: International Solar Energy Society (ISES)  
P.O. Box 52  
PARKVILLE, Victoria 3052, Australia
580. **JOURNAL OF ENERGY**  
Every two months. Includes advanced technologies in energy: nuclear fusion systems, chemical systems, solar systems (photovoltaics, solar thermal power, ocean thermal energy conversion and biomass energy), power conversion, storage and transmission, geothermal, tidal and hydroelectric power.  
Publ.: American Institute of Aeronautics and Astronautics  
1290 Avenue of the Americas  
NEW YORK, New York 10019, United States of America
581. **JOURNAL OF THE INTERNATIONAL SOLAR ENERGY SOCIETY, UNITED STATES SECTION**  
Quarterly.  
Publ.: International Solar Energy Society (ISES)  
United States Section  
300 State Road 401  
CAPE CANAVERAL, Florida 32920, United States of America
582. **JOURNAL OF THE NEW ALCHEMISTS**  
Covers biological conversion and systems.  
Publ.: New Alchemy Institute East  
P.O. Box 432  
WOODS HOLE, Massachusetts 02543, United States of America
583. **QUARTERLY BULLETIN OF SOLAR ACTIVITY**  
Prepared by the Fédération des services astronomiques et géophysiques.  
Quarterly. In English and French.  
Publ.: Eidgenössische Sternwarte  
Schmelzbergstrasse 25  
CH-8006 ZURICH, Switzerland
584. **REVUE INTERNATIONALE D'HELIOTECHNIQUE**  
Twice a year. In French. Covers developments in solar energy technology.  
Publ.: Coopération méditerranéenne pour l'énergie solaire (COMPLES)  
(see entry 569)
585. **SOLAR AGE**  
Monthly. Wide coverage of major areas of solar heating and cooling, photovoltaics, ocean thermal electricity, bioconversion and wind energy. Institutional news, forums and debates, legislative action and guides to suppliers and professionals.

Publ.: Solar Vision, Inc.  
P.O. Box 288  
Route 515  
VERNON, New Jersey 07462, United States of America

586. **SOLAR ENERGY**  
(Formerly *Journal of Solar Energy Science and Engineering*)  
Quarterly. In English, French and Spanish. Scholarly articles, reviews, technical notes, reports of meetings and society activities and abstracts form other journals.  
Publ.: Pergamon Press, Inc. (see entry 577)
587. **SOLAR ENERGY DIGEST**  
Monthly. Reports on developments in applications and technology and new products; also on meetings, courses, conferences and publications. Covers mostly United States.  
Publ.: Solar Energy Digest  
P.O. Box 17776  
SAN DIEGO, California 92117, United States of America
588. **SOLAR ENERGY INDUSTRY REPORT**  
Twice a month. Covers current events as well as government, industry, academy and private developments in solar energy field.  
Publ.: Solar Energy Research and Information Center  
1001 Connecticut Avenue, N.W.  
WASHINGTON, D.C. 20036, United States of America
589. **SOLAR ENERGY INTELLIGENCE REPORT**  
Twice a month. Covers space and water heating and cooling, bioconversion, solar thermal conversion, space and terrestrial photovoltaics and their applications.  
Publ.: Business Publishers, Inc.  
P.O. Box 1067  
1101 Spring Street  
SILVER SPRING, Maryland 20910, United States of America
590. **SOLAR ENERGY SPECIAL BULLETIN**  
Quarterly. Gives in-depth coverage of particular aspects of solar energy.  
Publ.: Solar Energy Research and Information Center (see entry 588)
591. **SOLAR ENERGY: WASHINGTON NEWSLETTER**  
Twice a month. Covers current events in solar energy field as well as solar energy legislation.  
Publ.: Solar Energy Research and Information Center (see entry 588)
592. **SOLAR ENGINEERING MAGAZINE**  
Monthly. Covers engineering aspects of solar energy applications.  
Publ.: Solar Energy Industries Association  
1001 Connecticut Avenue, N.W.  
WASHINGTON, D.C. 20036, United States of America

593. **SOLAR NEWS AND VIEWS**  
 Monthly.  
 Publ.: International Solar Energy Society (ISES) (see entry 581)
594. **SOLAR RADIATION AND RADIATION BALANCE DATA: THE WORLD NETWORK/SOLNECHNAIA RADIATSIIA I RADIATIONNYI BALANS: MIROVAIA SET'**  
 Monthly. In English and Russian. Contains daily and monthly values of global solar radiation and monthly totals of sunshine duration. Observational data for more than 60 countries.  
 Publ.: World Radiation Data Centre  
 7 Karbysheva  
 LENINGRAD 194018, Union of Soviet Socialist Republics
595. **SOLAR-WIND ENERGY NEWSLETTER**  
 Every two months. Covers wind and solar energy.  
 Publ.: Solar-Wind  
 c/o Mallmann Optics and Electronics  
 836 South 113  
 WEST ALLIS, Wisconsin 53214, United States of America
596. **SUN AT WORK IN BRITAIN**  
 Annual. Articles, news items and references on solar energy applications in United Kingdom.  
 Publ.: International Solar Energy Society (ISES)  
 United Kingdom Section  
 c/o The Royal Institution  
 21 Albemarle Street  
 LONDON W1X 4BS, England
597. **SUN WORLD**  
 Quarterly.  
 Publ.: Sun World  
 320 Vassar Avenue  
 BERKELEY, California 94708, United States of America
598. **UNDERCURRENTS**  
 Every two months. Information on small-scale alternative technology. News notes on groups and events.  
 Publ.: Undercurrents Ltd  
 275 Finchley Road  
 LONDON NW3, England
599. **WIND POWER DIGEST**  
 Quarterly. Covers small-scale wind power systems. Includes summaries of developments by large scientific institutions. Gives lists and reviews of all wind power hardware manufacturers and distributors as well as literature.  
 Publ.: Wind Power Digest  
 P.O. Box 489  
 Route 2  
 BRISTOL, Indiana 46507, United States of America

*B. Journals dealing frequently with non-conventional energy sources*

600. **ACCESS TO ENERGY**  
Monthly. Covers all forms of energy including non-conventional ones. Government energy programmes and legislation.  
Publ.: Access to Energy  
P.O. Box 2298  
BOULDER, Colorado 80302, United States of America
601. **AGRICULTURAL ENGINEERING**  
Monthly. Frequent articles on the use of solar and wind power for agricultural purposes.  
Publ.: American Society of Agricultural Engineers  
P.O. Box 229  
JOSEPH, Michigan 49085, United States of America
602. **AGRICULTURAL ENGINEERING AUSTRALIA**  
Quarterly.  
Publ.: Agricultural Engineering Society  
National Science Centre  
191 Royal Parade  
PARKVILLE, Victoria 3052, Australia
603. **AMBIO**  
Every two months. In Norwegian.  
Publ.: Royal Academy of Sciences  
P.O. Box 307  
Blindern  
OSLO 3, Norway
604. **ARCHITECTURAL DESIGN**  
Monthly. Includes use of solar energy in architecture.  
Publ.: Standard Catalogue Company Ltd  
26 Bloomsbury Way  
LONDON WC1A 2SS, England
605. **ASHRAE JOURNAL**  
Monthly. Theoretical and practical articles on refrigeration, ventilation and air-conditioning. Information on solar energy utilization and energy conservation. Book reviews, new products news, technical features; annual index.  
Publ.: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)  
345 East 47th Street  
NEW YORK, New York 10017, United States of America
606. **ASHRAE TRANSACTIONS**  
Twice a year. Compilation of all technical papers and discussions presented at national meetings; society by-laws. Includes papers on solar energy and architecture, heat transfer and energy conservation.  
Publ.: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE) (see entry 605)

607. **ASIAN INSTITUTE OF TECHNOLOGY: NEWSLETTER**  
Every two months. Covers experiences in the utilization of non-conventional energy sources.  
Publ.: Asian Institute of Technology  
P.O. Box 2754  
BANGKOK, Thailand
608. **AUSTRALIAN REFRIGERATION, AIR CONDITIONING AND HEATING**  
Prepared by the Australian Institute of Refrigeration, Air Conditioning and Heating. Monthly.  
Publ.: Page Publications Pty Ltd  
Box 606 GPO  
SYDNEY, New South Wales, Australia
609. **CANADIAN MINING AND METALLURGICAL BULLETIN**  
Monthly. Includes geothermal resources.  
Publ.: Canadian Institute of Mining and Metallurgy  
906 Drummond Building  
1117 Ste Catherine Street, West  
MONTREAL, Quebec H3B 1J3, Canada
610. **CHAUD-FROID-PLOMBERIE**  
Monthly. In French. Includes solar energy uses in heating and refrigeration.  
Publ.: Les Editions parisiennes  
4, rue Charles Divry  
F-75014 PARIS, France
611. **CHEMICAL ENGINEERING**  
Twice a month.  
Publ.: McGraw-Hill  
1221 Avenue of the Americas  
NEW YORK, New York 10020, United States of America
612. **COMPOST SCIENCE**  
Quarterly. Gives the conversion of municipal and industrial wastes.  
Publ.: Rodale Press  
33A Minor Street  
EMMAUS, Pennsylvania 18049, United States of America
613. **CONSULTING ENGINEER**  
Monthly. Covers engineering, economic and management methods. Consultants data file. Projects of the month. (See: solar issue, Vol. 48, No. 3, March 1977)  
Publ.: Technical Publishing Company  
1301 South Grove Avenue  
BARRINGTON, Illinois 60010, United States of America
614. **CSIRO REPORT**  
Annual. Review of activities, including use of non-conventional energy sources.

- Publ.: Commonwealth Scientific and Industrial Research Organization  
(CSIRO)  
P.O. Box 26  
Graham Road  
HIGHETT, Victoria 3190, Australia
615. ELECTRICITE DE FRANCE, DIRECTION DES ETUDES ET  
RECHERCHES: BULLETIN  
SERIE A: NUCLEAIRE, HYDRAULIQUE, THERMIQUE  
Quarterly. Text in French; summaries in English.  
Publ.: Houille Blanche  
5, chemin des Maronniers  
F-38000 GRENOBLE, France
616. ENERGIAGAZDALKODAS (Energy economy)  
See entry 443.
617. ENERGIEWIRTSCHAFTLICHE TAGESFRAGEN (Energy economics  
present day problems)  
Monthly. In German. Covers non-conventional energy sources.  
Publ.: Energiewirtschaft und Technik Verlagsgesellschaft mbH  
Wendelsteinstrasse 8  
D-8032 MUNICH-GRAEFELING, Federal Republic of Germany
618. ENERGY CONVERSION  
Quarterly. In English, French and German. Articles on primary energy  
sources and direct and indirect conversion processes; legislation and  
control.  
Publ.: Pergamon Press, Inc. (see entry 577)
619. ENERGY DIGEST  
Every two months. Covers all aspects of fuel and heat technology.  
Commercial, financial and environmental applications.  
Publ.: Allens (Clerkenwell) Ltd  
39 High Street  
WHEATHAMPSTEAD, Hertfordshire AL4 8DG, England
620. ENERGY DIGEST  
Every two months. Latest news on energy patents and other government  
action; reports of scheduled meetings on industry. Regular coverage of  
solar energy.  
Publ.: Scope Publications, Inc.  
1132 National Press Building  
WASHINGTON, D.C. 20004, United States of America
621. ENERGY INFO  
Monthly. Newsletter on current meetings and progress in research and  
development, including solar energy.  
Publ.: Robert Morey Associates  
P.O. Box 98  
DANA POINT, California 92629, United States of America

622. **ENERGY INTERNATIONAL**  
Monthly. Reports on all aspects of energy research and development throughout the world. Also available on microfilm.  
Publ.: Miller Freeman Publications, Inc.  
500 Howard Street  
SAN FRANCISCO, California 94105, United States of America
623. **ENERGY POLICY**  
See entry 421.
624. **ENERGY TODAY**  
Twice a month. Reports on all aspects of energy, new projects and research and development. Regular coverage of solar energy.  
Publ.: Trends Publishing, Inc.  
National Press Building  
WASHINGTON, D.C. 20045, United States of America
625. **ENVIRONMENT**  
Ten times a year. Evaluates the impact of technological advances in the energy field on environment.  
Publ.: Scientists' Institute for Public Information  
438 North Skinker Boulevard  
SAINT LOUIS, Missouri 63130, United States of America
626. **ENVIRONMENTAL SCIENCE AND TECHNOLOGY**  
Monthly. Reports on the scientific, engineering and political control of the environment. Book reviews, new products news and technical features. Annual index.  
Publ.: American Chemical Society (ACS)  
1155 Sixteenth Street, N.W.  
WASHINGTON, D.C. 20036, United States of America
627. **HEATING AND VENTILATION ENGINEER AND JOURNAL OF AIR CONDITIONING**  
Monthly.  
Publ.: Technitrade Journals Ltd  
886 High Road  
Finchley  
LONDON N12, England
628. **HEATING, PIPING, AIR CONDITIONING**  
Monthly. Covers all aspects of heating and air-conditioning systems, including those using solar energy.  
Publ.: Reinhold Publishing Company  
600 Summer Street  
STAMFORD, Connecticut 06904, United States of America
629. **H. L. H. ZEITSCHRIFT FUER HEIZUNG, LUEFTUNG, KLIMA-TECHNIK, HAUSTECHNIK** (Journal of heating, ventilation, air-conditioning technology, house technology)  
Monthly. In German. Covers use of solar energy for heating and cooling.

Publ.: VDI Verlag GmbH  
Postfach 1139  
D-4000 DUESSELDORF 1, Federal Republic of Germany

630. **IEEE SPECTRUM**  
Monthly. Also available on microfilm.  
Publ.: Institute of Electrical and Electronics Engineers, Inc. (IEEE)  
345 East 47th Street  
NEW YORK, New York 10017, United States of America
631. **INDIAN JOURNAL OF TECHNOLOGY**  
Monthly.  
Publ.: Council of Scientific and Industrial Research  
Publications and Information Directorate  
Hillside Road  
NEW DELHI, India
632. **INDUSTRIES ET TECHNIQUES**  
Quarterly. In French. Frequent coverage of solar energy technology.  
Publ.: Compagnie française d'éditions  
40, rue du Colisée  
F-75008 PARIS, France
633. **IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY**  
Quarterly. In English.  
Publ.: Phalavi University  
SHIRAZ, Iran
634. **JOURNAL OF APPLIED BACTERIOLOGY**  
Quarterly. Covers bioconversion.  
Publ.: Academic Press Ltd  
24-28 Oval Road  
LONDON NW1 7DX, England
635. **MACHINE DESIGN**  
Twice a month.  
Publ.: Penton Publishing Company  
Penton Plaza  
CLEVELAND, Ohio 44114, United States of America
636. **MARINE TECHNOLOGY SOCIETY JOURNAL**  
Ten times a year. Covers thermal sea power.  
Publ.: Marine Technology Society  
1730 M Street, N.W., suite 42  
WASHINGTON, D.C. 20036, United States of America
637. **MECHANICAL ENGINEERING**  
Monthly. Also available on microfilm.  
Publ.: American Society of Mechanical Engineers (ASME)  
345 East 47th Street  
NEW YORK, New York 10017, United States of America



638. **MINING ENGINEERING**  
 Monthly. Covers geothermal energy technologies.  
 Publ.: Society of Mining Engineers  
 345 East 47th Street  
 NEW YORK, New York 10017, United States of America
639. **THE MOTHER EARTH NEWS**  
 Every two months. Covers environmental sound practices and technologies, including those related to the utilization of alternative sources of energy.  
 Publ.: Mother Earth News  
 P.O. Box 70  
 HENDERSONVILLE, North Carolina 28739, United States of America
640. **NCRR BULLETIN**  
 Quarterly.  
 Publ.: National Center for Resources Recovery (NCRR)  
 1211 Connecticut Avenue, N.W.  
 WASHINGTON, D.C. 20036, United States of America
641. **PLANIFICATION, HABITAT, INFORMATION**  
 Quarterly. In English and French. Regular information on solar energy uses.  
 Publ.: Secrétariat des missions d'urbanisme et d'habitat  
 11, rue Chardin  
 F-75016 PARIS, France
642. **PRODUCT ENGINEERING**  
 Monthly.  
 Publ.: Morgan Grampian, Inc.  
 205 East 42nd Street  
 NEW YORK, New York 10017, United States of America
643. **REVISTA MEXICANA DE ELECTRICIDAD**  
 Monthly. In Spanish.  
 Publ.: Revista Mexicana de Electricidad  
 Apartado M-9238  
 Amsterdam 80, Despacho 5  
 MEXICO CITY, Mexico
644. **REVUE FRANÇAISE DE L'ENERGIE**  
 Monthly. In French.  
 Publ.: Les Editions techniques et économiques  
 3, rue Soufflot  
 F-75005 PARIS, France
645. **REVUE GENERALE DE THERMIQUE**  
 Monthly. Text in French; summaries in English, German, Italian, Russian and Spanish. Covers solar energy.  
 Publ.: Editions européennes thermique et industrie  
 2, rue des Tanneries  
 F-75013 PARIS, France

646. **SCHWEIZERISCHE BAUZEITUNG** (Swiss construction journal)  
Prepared by the Swiss Society of Engineers and Architects. Weekly. In German. Includes solar heating  
Publ.: Verlags-AG der Akademischen Technischen Vereine  
Postfach 630  
CH-8021 ZURICH, Switzerland
647. **SCIENCE**  
Weekly. Covers various aspects of scientific research, non-conventional energy sources and the environmental impact of their development.  
Publ.: American Association for the Advancement of Science  
1515 Massachusetts Avenue, N.W.  
WASHINGTON, D.C. 20005, United States of America
648. **WATER AND WASTES ENGINEERING**  
Monthly. Includes methane production.  
Publ.: Dun Donnelley Publishing Company  
666 Fifth Avenue  
NEW YORK, New York 10019, United States of America
649. **WEEKLY ENERGY REPORT**  
Weekly. Information on energy, including solar energy.  
Publ.: Weekly Energy Report  
1238 National Press Building  
WASHINGTON, D.C. 20045, United States of America

## SECTION VII

### CURRENT ABSTRACTING AND INDEXING PERIODICALS

Guides to the location of published works, mainly journal articles, giving either bibliographical information or summaries (abstracts)

650. **APPLIED SCIENCE AND TECHNOLOGY INDEX**  
Monthly. Cumulative subject index of English language periodicals on aeronautics, space science, automation, chemistry, construction, earth sciences, electricity and electronics. Covers also solar energy.  
Publ.: H. W. Wilson Company  
950 University Avenue  
Bronx  
NEW YORK, New York 10452, United States of America
651. **CHEMICAL ABSTRACTS**  
Weekly. Includes chemical and chemical engineering aspects of solar and geothermal energy. Covers international journals, reports and patents. Also available on microfilm.  
Publ.: American Chemical Society (ACS)  
Ohio State University  
COLUMBUS, Ohio 43210, United States of America
652. **CURRENT PHYSICS INDEX**  
Quarterly. Includes articles on solar energy; subject and author indexes; annual cumulative index.  
Publ.: American Institute of Physics  
335 East 45th Street  
NEW YORK, New York 10017, United States of America
653. **ECONOMIE DE L'ENERGIE**  
Monthly. In French.  
Publ.: Centre national de la recherche scientifique (CNRS)  
15, quai Anatole France  
F-75007 PARIS, France
654. **ELECTRICAL AND ELECTRONIC ABSTRACTS**  
Monthly. Deals often with solar energy. Cumulative index every three years. Also available in microform.

Publ.: Institute of Electric and Electronics Engineers, Inc. (IEEE)  
345 East 47th Street  
NEW YORK, New York 10017, United States of America

and

Institution of Electrical Engineers  
Savoy Place  
LONDON WC2E 0BL, England

655. ENERGY ABSTRACTS

(Incorporating *Energy Sources Abstracts; Energy Production, Transmission, and Distribution; Energy Utilization Abstracts; Energy Conservation; Energy Conversion*)

Covers world literature on engineering aspects of energy resource development, production, transmission, distribution, conservation and conversion. Includes solar energy. Author index.

Publ.: The Engineering Index, Inc.  
345 East 47th Street  
NEW YORK, New York 10017, United States of America

656. ENERGY ABSTRACTS FOR POLICY ANALYSIS (EAPA)

(Formerly NSF/RANN Energy Abstracts).

Monthly. Covers energy sources, including non-conventional ones, energy conversion and storage and energy consumption. Abstracts and indexes of government reports, books and conference papers. Subject and author indexes.

Order from:

National Technical Information Service (NTIS)  
5285 Port Royal Road  
SPRINGFIELD, Virginia 22151, United States of America

657. ENERGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES

Prepared by the National Aeronautics and Space Administration.

Quarterly. Deals with regional, national and international energy systems, energy conversion and distribution. Covers solar and hydrogen energy.

Order from:

National Technical Information Service (NTIS) (see entry 656)

658. THE ENERGY INDEX

Annual. Covers environmental aspects of energy resources and energy legislation. Reports, articles, technical papers and patents.

Publ.: Environment Information Center (EIC)  
124 East 39th Street  
NEW YORK, New York 10016, United States of America

659. ENERGY INFORMATION ABSTRACTS

Every two months. Covers international journals and reports on energy resources, reserves, consumption and new sources of energy.

Publ.: Environment Information Center (EIC) (see entry 658)

660. ENERGY RESEARCH AND TECHNOLOGY

Irregular. Gives results of the work done by the National Science Foundation in the field of energy research and development, energy

conversion and storage and solar and geothermal energy. Subject and author indexes.

Publ.: National Science Foundation (NSF)  
Research Applied to National Needs (RANN)  
1800 G Street, N.W., room 1241  
WASHINGTON, D.C. 20550, United States of America

661. **ENERGY REVIEW**  
Every two months. Covers energy research and development and conventional and non-conventional energy sources. Loose-leaf format. Annual cumulative index.  
Publ.: Energy Research Corporation  
6 East Valerio Street  
SANTA BARBARA, California 93101, United States of America
662. **ENVIRONMENT ABSTRACTS**  
Eleven times a year. Contains environmental aspects of energy development, utilization and policy. International coverage of journals and reports.  
Publ.: Environment Information Center (EIC) (see entry 658)
663. **ERDA REPORT ABSTRACTS**  
Monthly. Current information on research sponsored by the Energy Research and Development Administration (ERDA) on energy, including non-conventional sources. Scientific and technical reports, patents, conference papers and monographs. Annual cumulative index.  
Order from:  
National Technical Information Service (NTIS) (see entry 656)
664. **HYDROGEN ENERGY: A BIBLIOGRAPHY WITH ABSTRACTS**  
K. E. COX, ed. Updated quarterly. Includes production, utilization, transmission, distribution and storage safety. Abstract bibliography on hydrogen as a carrier and secondary energy source. Author index; corporate sources and titles.  
Publ.: Technology Application Center  
University of New Mexico  
ALBUQUERQUE, New Mexico 87131, United States of America
665. **IAPG PROJECT BRIEFS BY FIELD OF INTEREST**  
Monthly. Summaries of research projects, including solar energy.  
Publ.: Interagency Advanced Power Group (IAPG)  
University of Pennsylvania  
3401 Market Street, room 2210  
PHILADELPHIA, Pennsylvania 19104, United States of America
666. **INSTITUTUL NATIONAL DE INFORMARE SI DOCUMENTARE STIINTIFICA SI TEHNICA. REVISTA DE TITLURI: ENERGETICA**  
(National institute of scientific and technical information and documentation. Bibliography: energy)  
Monthly. In Romanian.  
Publ.: Institutul National de Informare si Documentare Stiintifica si Tehnica  
Str. Cosmonutilor 27-29  
BUCHAREST 1, Romania

667. **INTERNATIONAL AEROSPACE ABSTRACTS**  
Twice a month. Covers solar energy literature.  
Publ.: American Institute of Aeronautics and Astronautics  
Technical Information Service  
750 Third Avenue  
NEW YORK, New York 10017, United States of America
668. **MUSZAKI LAPSZEMLE: ENERGIA (Technical abstracts: energy)**  
Monthly. In Hungarian.  
Publ.: Hungarian Central Technical Library and Documentation Centre:  
TECHNOINFORM  
P.O. Box 12  
Reviczky útca 6  
H-1428 BUDAPEST, Hungary
669. **PANDEX CURRENT INDEX TO SCIENTIFIC AND TECHNICAL LITERATURE**  
Includes information on solar energy.  
Publ.: Macmillan Information  
866 Third Avenue  
NEW YORK, New York 10022, United States of America
670. **PHYSICS ABSTRACTS**  
Twice a week. Includes solar energy literature.  
Publ.: American Institute of Physics (see entry 652)  
and  
Institution of Electrical Engineers (see entry 654)
671. **REFERATIVNYI ZHURNAL: ELEKTROTEKHNIKA I ENERGETIKA (Abstracting journal: electrical engineering and energetics)**  
Monthly. In Russian. Includes non-conventional energy sources.  
Publ.: Vsesoiuznyi Institut Nauchnoi i Tekhnicheskoi Informatsii (VINITI)  
Baltiiskaia ulitsa 14  
MOSCOW A-219, Union of Soviet Socialist Republics
672. **SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS (STAR)**  
Twice a month. Includes solar energy literature.  
Publ.: National Aeronautics and Space Administration (NASA)  
Scientific and Technical Information Office  
WASHINGTON, D.C., 20546, United States of America
673. **SOLAR ENERGY INDEX**  
Twice a year. Available on microfiche.  
Publ.: Arizona State University Library  
TEMPE, Arizona 85281, United States of America
674. **SOLAR THERMAL ENERGY UTILIZATION**  
Quarterly. Survey of the latest literature on solar radiation, material properties, components, space heating and power generation. Inter-

national coverage of journals and reports. Subject, author and source indexes.

Publ.: Technology Application Center (see entry 664)

**675. SYNERJY DIRECTORY**

Every two years. Directory with abstracting section giving literature on solar and geothermal energy, wind and water power. (See also entry 413)

Publ.: Synerjy

P.O. Box 4790

Grand Central Station

NEW YORK, New York 10017, United States of America

**676. WEEKLY GOVERNMENT ABSTRACT: ENERGY**

Weekly. Covers electric power generation, supply, demand, conversion, storage, consumption and policy. Includes non-conventional energy sources.

Order from:

National Technical Information Service (NTIS) (see entry 656)

**677. WIND ENERGY UTILIZATION**

Quarterly. International coverage of journals and reports on wind energy conversion and application. Subject and author indexes.

Publ.: Technology Application Center (see entry 664)

## SECTION VIII

### PROCEEDINGS, PAPERS AND REPORTS<sup>1</sup>

#### *A. United Nations and related bodies*

678. Report of the Committee on the Peaceful Uses of Outer Space, Technical Subcommittee, Fourteenth session, New York, February 1977. 10 p. (A/AC.105/C.1/L.89)
679. Second United Nations Symposium on the Development and Use of Geothermal Resources, San Francisco, California, 20-29 May 1975. Abstracts. Berkeley, University of California, 1975.
680. United Nations Conference on New Sources of Energy, Rome, 21-31 August 1961. Proceedings. New York, 1964. Reprinted 1974 and 1976.
- Vol. 1: General session
  - Vol. 2: Geothermal energy I
  - Vol. 3: Geothermal energy II
  - Vol. 4: Solar energy I
  - Vol. 5: Solar energy II
  - Vol. 6: Solar energy III
  - Vol. 7: Wind power
681. Conference on New Sources of Energy, Rome, 21-31 August 1961. Report. New York, 1962.

#### *Department of Economic and Social Affairs*

682. Non-conventional sources of energy for developing countries. Paper presented to the United Nations Advisory Committee on the Application of Science and Technology to Development. 1974. (E/AC.52/XX/CRP.T/Annex)
683. Proposal to the United Nations Environment Programme. Programme in non-polluting energy. Advisory Committee on the Application of Science and Technology to Development. (E/AC.52/XX/CRP.7)
684. Symposium on the Development and Utilization of Geothermal Resources, Pisa, Italy, 22 September-1 October 1970. Report. 1971. 20 p. (ST/TAO/SER.C/126)

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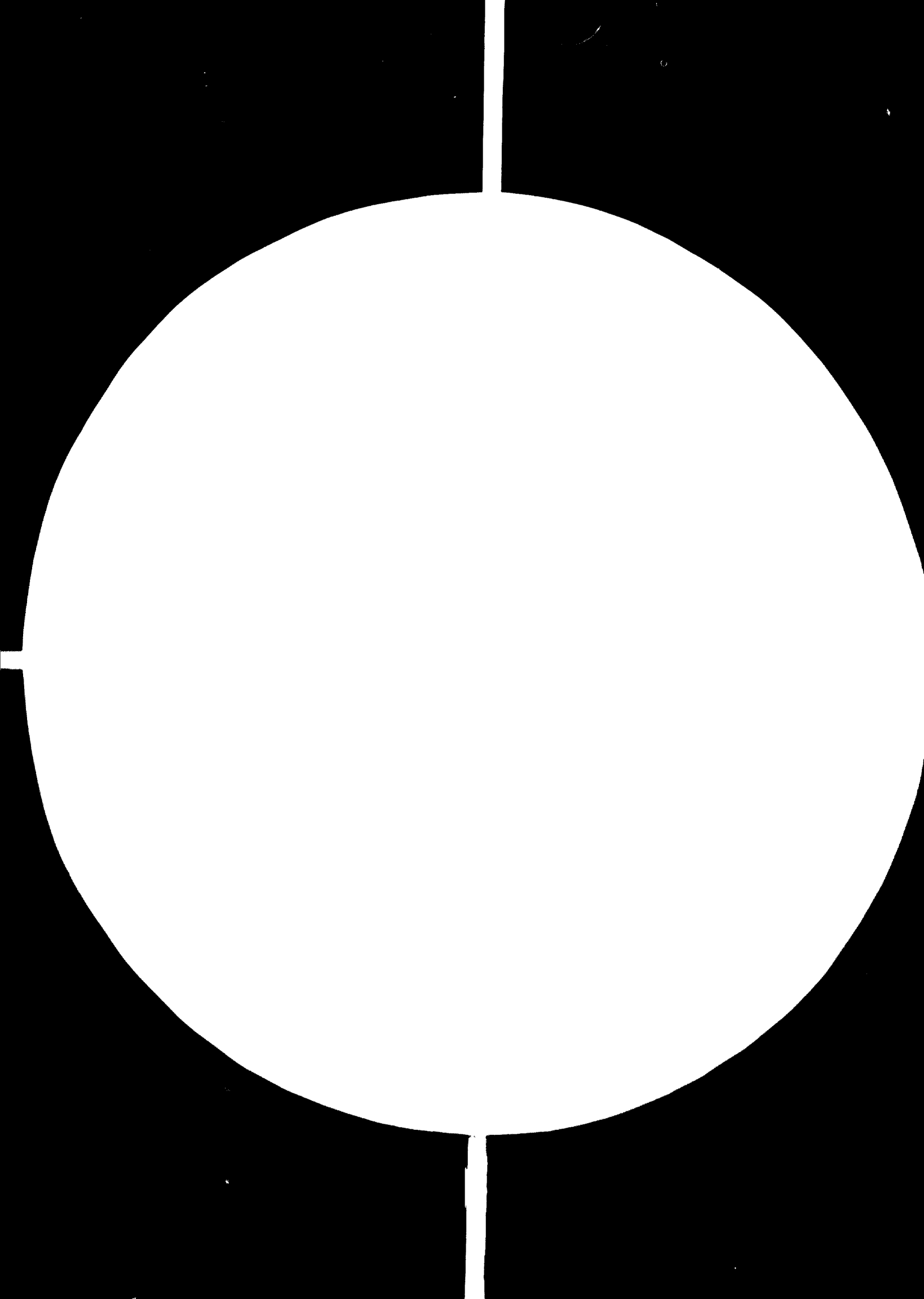
<sup>1</sup> Arranged in reverse chronological order.



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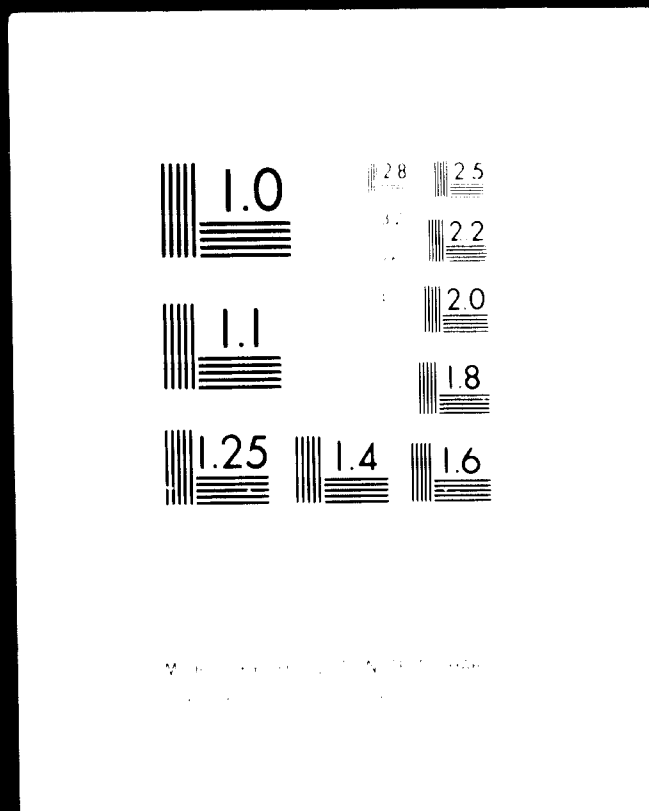


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- 685. Natural resources of developing countries: investigation, development and rational utilization. 174 p. (Sales No. E.70.II.B.2)
- 686. Solar distillation as a means of meeting small-scale water demands. 92 p. (Sales No. E.70.II.B.1)
- 687. New sources of energy. Progress report. 1967. 54 p. (E/4303)
- 688. Small-scale power generation: a study for pioneer electrification work. (Sales No. 67.II.B.7)
- 689. New sources of energy and economic development. (Sales No. 57.II.B.1)
- 690. Solar energy in Sahelian countries. 1965. 35 p. (STD/4/6)

*Economic Commission for Africa (ECA)*

- 691. Second African Meeting on Energy, Accra, Ghana, 1-12 March 1976. Selected papers:
  - Appraisal of current energy situation and future prospects in Africa. 25 p. (E/CN.14/NRSTD/E/2)
  - Energy resources in Africa. 32 p. (E/CN.14/NRSTD/E/4)
  - Geothermal resources potential in Africa and recommendations for development. 9 p. (E/CN.14/NRSTD/E/11)
  - The present status of and future prospects for solar energy utilization in Africa. (E/CN.14/NRSTD/E/12)

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- 693. Symposium on the Role of Electric Power in Meeting Future Energy Needs and International Co-operation in the Field, Athens, 19-23 May 1975. Selected papers:
  - Solar radiation as source of electric power in Greece: summary. (EP/SEM.3/R.21)
  - The geothermal potential of Greece: summary. (EP/SEM.3/R.63)
- 694. Current trends and possibilities of co-operation in the development of new technologies of energy production and utilization. (SC/TECH/AC.2/R.1/Corr.1/Add.1 and 2)

*Economic and Social Commission for Asia and the Pacific (ESCAP)*

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- 696. Second Session of the Committee on Natural Resources, Bangkok, 14-20 October 1975. Proceedings. New York, 1976. (Energy resources development, series No. 15) (Sales No. E.76.II.F.11)
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*United Nations Educational, Scientific and Cultural Organization (UNESCO)*

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- 702. International Congress on the Sun in the Service of Mankind. Paris, 2-6 July 1973. Proceedings. Paris, 1973.
- 703. Seminar on Solar Energy and Its Applications in Africa, Niamey, Niger, 25-31 October 1972. Final report. Paris, 1973.
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*United Nations Industrial Development Organization (UNIDO)*

- 706. Conclusions and recommendations of the Expert Group Meeting on Existing Solar Technology and the Possibility of Manufacturing Solar Equipment in Developing Countries, Vienna, 14-18 February 1977. (UNIDO/IOD/73).

*World Health Organization (WHO)*

- 707. Composting: sanitary disposal and reclamation of organic wastes. Geneva, 1956. 200 p. (Monograph series No. 31)

*World Meteorological Organization (WMO)*

- 708. Energy from the wind: assessment of suitable winds and sites. Geneva, 1955. (Technical note No. 4)

*Document issued jointly by the United Nations Educational, Scientific and Cultural Organization (UNESCO) and the World Health Organization (WHO)*

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*Solar energy*

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720. Small solar power systems. Results of an inquiry on research and development performed in the member countries of the International Atomic Energy Agency. Vienna, Austrian Solar and Space Agency, 1976. 187 p.

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722. Systems aspects of the large-scale conversion of solar energy for the production of heat, electricity and synthetic fuels by industrial nations. A proposed programme of research using the Federal Republic of Germany as a case study example. Laxenburg, Austria, International Institute for Applied Systems Analysis, 1975. 87 p.
723. Heliotechnique et développement. Proceedings of the COMPLES International Solar Conference, Dhahran, Saudi Arabia, 2-6 November 1975. Madrid, Coopération méditerranéenne pour l'énergie solaire, 1976.
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730. Solar thermal electric power systems. Annual progress report. Fort Collins, Colorado, 1974. (NSF/RANN/SE/GI-37815/PR/73/4)
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739. Sonnenenergie auf dem Weg zur praktischen Nutzung (Solar energy on the road to practical utilization). Proceedings of the Conference of the Swiss Association for Solar Energy, Rüslikon, Switzerland, December 1973. Zurich, 1974.
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742. Workshop on Bio-Solar Conversion, Bethesda, Maryland, 5-6 September 1973. Proceedings. Bloomington, Indiana, Indiana University Press.
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746. Test facility for experimental solar collectors. By A. P. Saunders. Report presented to the National Science Foundation. Philadelphia, Pennsylvania, National Center for Energy Management and Power, 1972. (NSF/RANN/SE/GI-27976/TR72/12)
747. The use of solar energy for water pumping in arid areas. Report. By Masson. Dakar University, Senegal. 20 p. (No date)



748. International Solar Energy Society, Melbourne, Australia, 2-6 March 1970. Proceedings, Parkville, Victoria, 1970.
749. Solar and aeolian energy. By A. G. Spanides and A. D. Hatzikalidis, eds. Proceedings of the International Seminar on Solar and Aeolian Energy, Sounion, Greece, 4-14 September 1961. New York, Plenum Press, 1964. 491 p.
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752. World Symposium on Applied Solar Energy, Phoenix, Arizona, 1-5 November 1955. Proceedings. Menlo Park, California, Stanford Research Institute, 1955.

#### *Wind power*

753. Considerations for the use of wind power for borehole pumping. Addis Ababa, Ethiopia, Appropriate Technology Unit, 1976. 15 p.
754. Second Workshop on Wind Energy Conversion Systems, Washington, D.C., 9-11 June 1975. Proceedings. McLean, Virginia, MITRE Corporation, 1975. 536 p.
755. Workshop on Wind Energy Conversion Systems, Cleveland, Ohio, NASA Lewis Research Center, 11-13 June 1973. Proceedings. Springfield, Virginia, National Technical Information Service, 1973. (NSF/RANN-73-006)
756. Is there a place for the windmill in the less developed countries? M. Merriam. Honolulu, Hawaii, East-West Center, 1972. 36 p. (See entry 430)

#### *Bioconversion*

757. Methane generation from human, animal and agricultural wastes. Report of an *Ad Hoc* Panel of the Advisory Committee on Technology Innovation, Board on Science and Technology for International Development, Washington, D.C., 1977.
758. Fuel gas from cow dung. By B. R. Saubolle. Kathmandu, Nepal, Sahayogi Press, 1976. 19 p.
759. Seminar on Microbiological Energy Conversion, Göttingen, Federal Republic of Germany, 4-6 October 1976. Abstracts of lectures. The seminar was organized by the United Nations Department of Science and Technology and the Government of the Federal Republic of Germany.

- 760. Cornell Agricultural Waste Management Conference, Ithaca, New York, 1975. Proceedings. Ann Arbor, Michigan, Science Publishers, 1975. 540 p.
- 761. Methane. Proceedings of a one-day seminar. London, Intermediate Technology Development Group, 1975. 51 p.
- 762. Bioconversion Energy Conference, Amherst, Massachusetts, 25-26 June 1973. Proceedings. Amherst, University of Massachusetts, 1973.
- 763. International Biomass Energy Conference, Winnipeg, Canada, 13-15 May 1973. Proceedings. Winnipeg, Canada, Biomass Energy Institute, 1973.
- 764. An inquiry into biological energy conservation. Workshop, Gatlinburg, Tennessee, 12-14 October 1972. Report, Knoxville, Tennessee, University of Tennessee Press.

*Geothermal energy*

- 765. A technology assessment of geothermal energy resource development. Report prepared by the Futures Group for the National Science Foundation, Washington, D.C., Government Printing Office, 1975. 554 p. (Contract C-836)
- 766. Conference on Geothermal Energy and the Law. Proceedings. Washington, D.C., National Science Foundation, 1975. (Springfield, Virginia, National Technical Information Service) (NSF/RANN 75-003)
- 767. Conference on Research for the Development of Geothermal Energy Resources, Pasadena, California, 23-25 September 1974. Proceedings. Pasadena, Jet Propulsion Laboratory, 1975. (NSF/RANN-74-159)
- 768. Conference on Environmental Aspects of Geothermal Resources Development. Proceedings. Washington, D.C., National Science Foundation, 1974. (No. AER-75-06872)
- 769. Assessment of geothermal energy resources. Report prepared by the Panel on Geothermal Energy Resources for the Committee on Energy Research and Development Goals, Federal Council of Science and Technology, Washington, D.C., 1972. (Report PB 224.882)
- 770. Geothermal energy. By W. J. Hickel. A special report. Fairbanks, Alaska, University of Alaska, 1972. 95 p.

## SECTION IX

### BIBLIOGRAPHIES

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C. G. GOLUEKE. Berkeley, California, University of California, Engineering Research Laboratory, 1972.
772. **AKTUELL INTERNATIONALE ENERGIELITTERATUR** (Topical international energy literature)
773. **ALTERNATIVE SOURCES OF ENERGY BIBLIOGRAPHY**  
In *Alternative Sources of Energy*, No. 9. Milaca, Minnesota, Alternative Sources of Energy, 1973. 40 p.
774. **ANAEROBIC DIGESTION OF LIVESTOCK WASTES TO PRODUCE METHANE: 1946-1975**  
G. SHADDUCK and J. MOORE. St. Paul, Minnesota, University of Minnesota, Department of Agricultural Engineering, 1975. 103 p. Bibliography with abstracts.
775. **APPLIED SOLAR ENERGY RESEARCH: A DIRECTORY OF WORLD ACTIVITIES AND BIBLIOGRAPHY OF SIGNIFICANT LITERATURE**  
J. S. JENSEN, ed. Menlo Park, California, Stanford Research Institute, 1959. 275 p. Thorough review of solar energy literature up to 1958; with abstracts. (See entry 384)
776. **BIBLIOGRAPHY ON THE DISPOSAL OF ORGANIC WASTES BY COMPOSTING**  
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777. **L'ENERGIE/ENERGY**  
Prepared by the Organisation for Economic Co-operation and Development (OECD). Paris, 1975, 2 vols. Special annotated bibliography. Volume 2 covers wind, solar, geothermal, hydrogen, tidal and waste energy.
778. **ENERGY: A SPECIAL BIBLIOGRAPHY WITH INDEXES**  
Prepared by the National Aeronautics and Space Administration. Springfield, Virginia, National Technical Information Service, 1974. Lists reports, articles and documents on energy, photovoltaics and wind. Quarterly supplements. (NASA SP-7042 and SP-7043) (See entry 657)
779. **ENERGY CONSERVATION**  
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780. **ENERGY CONVERSION**  
Alexandria, Virginia, Defense Documentation Center, 1974. 407 p.  
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781. **ENERGY, ENVIRONMENT AND BUILDING**  
P. STEADMAN. Cambridge, England, Cambridge University Press, 1975.  
267 p. Gives bibliographies on solar space heating, wind power,  
small-scale water-power and composting.
782. **ENERGY FROM THE WIND: ANNOTATED BIBLIOGRAPHY**  
B. BURKE and R. MERMEY. Fort Collins, Colorado, Colorado State  
University, Engineering Research Center, 1975. 180 p.
783. **ENERGY SUPPLY AND DEMAND AND THE AVAILABILITY OF  
ENERGY SOURCES**  
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162 p. A bibliography with abstracts.
784. **FLAT-PLATE SOLAR COLLECTORS AND THEIR APPLICATION TO  
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A. EGGERS LURA. Søborg, Denmark, International Solar Power  
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785. **GENERAL REVIEW OF THE LITERATURE ON ANAEROBIC  
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786. **HYDROGEN ENERGY: A BIBLIOGRAPHY WITH ABSTRACTS**  
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Mexico, Technology Application Center. Quarterly supplements. (TAC  
74-500) (See entry 664)
787. **INDUSTRIAL APPLICATIONS OF SOLAR HEATING**  
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bibliography with about 150 entries. (ESL Bibliography No. 7)
788. **LITERATURE SURVEY FOR AN INVESTIGATION OF SOLAR  
ENERGY STORAGE MATERIALS**  
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heat storage published from 1919-1956.
789. **METHANE: FUEL OF THE FUTURE**  
C. BELL *et al.* Dorchester, England, Prism Press, 1973. 85 p. Classified  
bibliography on methane as a source of fuel, p. 65-77.
790. **NSF/RANN ENERGY REPORT BIBLIOGRAPHY**  
Washington, D.C., National Science Foundation, Research Applied to  
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research reports.
791. **REDE/RISD ENERGY LIBRARY LISTING**  
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Island School of Design; with subject index.

792. REVIEW AND EVALUATION OF PAST SOLAR CELL DEVELOPMENT REPORTS  
P. A. CROSSLEY *et al.* Princeton, New Jersey, RCA Corporation, 1968. Bibliography of about 800 references from conference proceedings and government sponsored research on solar cells up to 1968.
793. SEKUNDAERE ENERGI-UDNYTTELSER (Secondary energy applications)  
C. E. ANDERSEN. Lyngby, Denmark, Danish Technical Library, 1975. In Danish. Includes literature on solar energy. (Publication No. 33)
794. A SELECTED AND CLASSIFIED BIBLIOGRAPHY ON THE MEASUREMENT OF RADIATION IN THE UNITED STATES AND THE PRACTICAL USE OF SUCH MEASUREMENTS IN BUILDING DESIGN INCLUDING SPACE HEATING AND SOLAR WATER HEATING  
J. K. PAGE. Garston, England, Building Research Station, 1955. 4 p. (Library bibliography No. 156)
795. SELECTED ANNOTATED BIBLIOGRAPHY ON GLOBAL SOLAR RADIATION  
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796. SELECT LIST OF REFERENCES ON SOLAR POWER  
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797. SOLAR CELL RADIATION HANDBOOK  
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798. SOLAR CELLS  
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799. SOLAR CELLS AND SOLAR PANELS  
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800. SOLAR ENERGY AND AGRICULTURE: SELECTED BIBLIOGRAPHIES  
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802. SOLAR ENERGY AND FLAT-PLATE COLLECTOR: AN ANNOTATED BIBLIOGRAPHY  
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803. **SOLAR ENERGY AND WIND POWER: A BIBLIOGRAPHY WITH ABSTRACTS**  
Springfield, Virginia, 1974. 162 p. Seventy-four selected abstracts of research reports on solar heating for buildings, solar electric power generation, solar cells and solar and wind energy as a national energy resource. (NTIS-WIN 74-016).
804. **SOLAR ENERGY: A SELECT BIBLIOGRAPHY**  
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808. **SOLAR ENERGY UTILIZATION**  
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809. **SOLAR HEATING AND AIR CONDITIONING**  
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810. **SOL SOLVAERME SOLENENERGI: EN LITERATUR FOER-TECKNING (Sun, solar heat, solar energy: a bibliography)**  
Stockholm, Bygghforskningen, 1975. In Swedish (Report No. R7)
811. **SOLAR THERMAL ENERGY UTILIZATION: 1957-1975**  
Albuquerque, New Mexico, Technology Application Center<sup>1</sup>, 1975. 1,600 p. 2 vols. Bibliography with abstracts and indexes on solar thermal energy going back to 1957. Quarterly supplements. (See entry 674)
812. **SPECIAL RETROSPECTIVE BIBLIOGRAPHY: SOLAR ENERGY**  
K. STANLEY, ed. Tucson, Arizona, University of Arizona, Office of Arid Land Studies, 1974. Gives 114 references with abstracts.

<sup>1</sup>The Technology Application Center of the University of New Mexico, Albuquerque, is currently compiling bibliographies on geothermal energy, ocean and tidal power and waste heat.

813. **TOTAL ENVIRONMENTAL ACTION BIBLIOGRAPHIES**  
Harrisville, New Hampshire, Total Environmental Action.  
Solar energy books. 18 p.  
Wind energy. 39 p.  
Designing for solar radiation on building surfaces. 17 p.  
Solar heating: domestic hot water and swimming-pools. 42 p.
814. **UTILIZATION OF SOLAR ENERGY**  
Garston, England, Building Research Station Library, 1969. (Bibliography No. 220)
815. **UTILIZATION OF SOLAR ENERGY: LIST OF REFERENCES**  
Compiled for the UNESCO Symposium on Solar Energy and Wind Power. New Delhi, National Physical Laboratory of India, 1954.
816. **WINDWORKS: WIND ENERGY BIBLIOGRAPHY**  
Mukwonago, Wisconsin, Windworks, 1973. 65 p. About 500 entries on wind behaviour, windmills, storage systems etc.

## SECTION X

### FILMS AND FILM CATALOGUES

#### *A. Films<sup>1</sup>*

817. **FOUR SOLAIRE**  
1954. Colour, 14 minutes. Description of the characteristics and features of the 75 kW solar oven constructed at Mont-Louis, France, by the Centre national de la recherche scientifique (CNRS).  
Distr.: Centre national de la recherche scientifique (CNRS)  
13, quai Anatole France  
F-75007 PARIS, France
818. **THE HOUSE AND THE SUN**  
1975. Colour, 28 minutes. Shows the use of solar energy in housing.  
Distr.: Educational Foundation for Visual Aids  
National Audiovisual Aids Library  
Paxton Place, Gipsy Road  
LONDON SE27 9SR, England
819. **AN INTRODUCTION TO MATERIALS**  
1973. Second level course from the faculties of technology and science.  
Solar cells: the physics. 25 minutes.  
Solar cells. 25 minutes.  
Distr.: Open University Film Library  
Guild Sound and Vision Ltd  
85/129 Oundle Road  
PETERBOROUGH PE2 9PY, England
820. **SOLAR CONTROL GLASS**  
1974. Colour, 6 minutes. Discusses the specification of solar control glasses, applications and technology.  
Distr.: Viscom Ltd  
Audio Visual Library  
16 Paxton Place  
LONDON SE27 9SS, England

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<sup>1</sup> Films are sound, black and white and 16 mm unless otherwise indicated. Films sponsored by private companies may promote special product lines which are not necessarily endorsed by the United Nations. Films are usually for purchase or rent, but are sometimes available on a free loan basis from the distributors listed. In some cases films for purchase can be previewed.



821. **SOLAR WATER HEATING**  
 1964. Colour, 13 minutes. Describes the design of a standard absorber for a solar water heater and outlines the principles involved in its efficient operation.  
 Distr.: Commonwealth Scientific and Industrial Research Organization (CSIRO)  
 314 Albert Street  
 EAST MELBOURNE, Victoria 3002, Australia
822. **THE SUN: EARTH'S POWERHOUSE**  
 1972. Colour, 6 minutes. The sun is considered a source of energy for earth in the form of the food we eat, fuels for transport and electricity for homes and industry.  
 Distr.: EMI Special Films Unit  
 Dean House  
 7 Soho Square  
 LONDON W1, England
823. **THE SUN'S ENERGY**  
 1960. Colour, 16 minutes. Illustrates the possible applications of solar energy: bioconversion, methane from algae, wind power, radiant energy, solar engines and furnaces, solar house heating and distillation of sea water.  
 Distr.: Academy Films  
 800 North Seward Street  
 HOLLYWOOD, California 90068, United States of America
824. **L'USINE MAREMOTRICE DE LA RANCE**  
 No date. Colour, 15 minutes. Demonstrates the making of electricity from ocean tides of the estuary of the Rance.  
 Distr.: Cefilm  
 31, avenue Pierre de Serbie  
 F-75116 PARIS, France
825. **WATER FROM THE SUN: THE COOBER PEDY SOLAR STILL**  
 1967. Colour, 15 minutes. Solar distillation and thermal behaviour of solar stills for an economical design.  
 Distr.: Commonwealth Scientific and Industrial Research Organization (CSIRO)  
 (see entry 821)
826. **WAVES AND ENERGY**  
 1961. 11 minutes. How waves can carry energy from one place to another. (Basic physical science series)  
 Distr.: Encyclopedia Britannica Films  
 1150 Wilmette Avenue  
 WILMETTE, Illinois 62706, United States of America
827. **THE WINDMILL AT WORK**  
 1971. 10 minutes. Illustrates three types of windmills.  
 Distr.: Paul Graham  
 58 Whitepit Lane  
 Flackwell Heath  
 HIGH WYCOMBE, Buckinghamshire HP14 4ND, England

*B. Film catalogues*

828. **BRITISH NATIONAL FILM CATALOGUE**  
Quarterly and annual. Universal Decimal Classification (UDC).  
Publ.: British Film Institute  
81 Dean Street  
LONDON W1V 6AA, England
829. **CATALOGUE DES FILMS INDUSTRIELS FRANÇAIS**  
1974-1975. 76 p.  
Publ.: Centre français du commerce extérieur  
10, avenue d'Iéna  
F-75789 PARIS, cedex 16, France
830. **CATALOGUE OF TECHNICAL AND SCIENTIFIC FILMS**  
1973. 487 p. In English.  
Publ.: International Institute for the Management of Technology (IIMT)  
International Film Library  
Corso Magenta 59-63  
I-20123 MILAN, Italy
831. **CSIRO FILM CATALOGUE**  
1971. 95 p.  
Publ.: Commonwealth Scientific and Industrial Research Organization  
(CSIRO)  
(see entry 821)
832. **ENERGY FILMS CATALOGUE**  
Publ.: Energy Research and Development Administration (ERDA)  
Film Library  
P.O. Box 62  
OAK RIDGE, Tennessee 37830, United States of America

## SECTION XI

### OTHER POTENTIAL SOURCES OF INFORMATION

#### *A. Consulting and engineering services<sup>1</sup>*

##### *Publications*

833. **THE CONSULTING ENGINEERS' WHO'S WHO AND YEARBOOK**  
Prepared by the Association of Consulting Engineers, Abbey House, Victoria Street, London. Annual directory. Lists association members with biographies, firms and their specialities, services, engineering societies and other specialized service organizations.  
Publ.: Northwood Publications Ltd  
Elm House, Elm Street  
LONDON SW1, England
834. **DIRECTORY OF MEMBERSHIP AND SERVICES**  
Every two years. Includes introductory text and standards of professional conduct and practice. Lists firms and services.  
Publ.: Association of Consulting Management Engineers, Inc. (ACME)  
347 Madison Avenue  
NEW YORK, New York 10017, United States of America
835. **ENGINEERING CONSULTING FIRMS ASSOCIATION, JAPAN**  
Annual directory. Illustrated list of firms and services.  
Publ.: Engineering Consulting Firms Association, Japan (ECFA)  
Kasumigaseki Building, Kasumigaseki III  
Chiyoda-ku  
TOKYO 100, Japan
836. **GENIE INDUSTRIEL: CATALOGUE DE L'ENGINEERING**  
Annual directory. Text in French; index and headings in English, French and German.  
Publ.: Documentations industrielles et techniques (DIT)  
11, rue de Madrid  
F-75008 PARIS, France
837. **MANUAL ON THE USE OF CONSULTANTS IN DEVELOPING COUNTRIES**  
Prepared by UNIDO. 1972. 165 p. Includes select list of professional consulting associations, both international and national. (Sales No. 72.II.B.10)

<sup>1</sup> For list of organizations, see entry 837.

Publ.: United Nations  
Sales Section  
NEW YORK, New York 10017, United States of America

838. UNION INTERNATIONALE DES LABORATOIRES INDEPENDANTS:  
REGISTER OF MEMBERS 1971  
1975. 237 p. Lists private laboratories and independent consultants that are members of the Union. Products and fields of activities are listed in English with equivalents in French and German. Members are listed geographically, with addresses and a short account of their activities.  
Publ.: Union internationale des laboratoires indépendants  
Ashbourne House, Alberon Gardens  
LONDON NW11 0BN, England

### *B. Environment*

#### *Organization*

839. UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)  
Box 30552  
NAIROBI, Kenya

#### *Publication*

840. ENERGY AND THE ENVIRONMENT  
J. WALKER, ed. 1975. 387 p.  
Publ.: University of Birmingham  
BIRMINGHAM, England

### *C. Fairs and exhibitions*

#### *Organizations*

841. COMMITTEE OF COLLECTIVE NATIONAL PARTICIPATION IN  
INTERNATIONAL FAIRS: INTEREXPO  
WIRTSCHAFTSFOERDERUNGSINSTITUT DER BUNDESKAMMER  
Hoher Markt 3  
A-1010 VIENNA, Austria
842. INDUSTRIAL AND TRADE FAIRS LTD  
Commonwealth House, New Oxford Street  
LONDON WC1A 1PB, England
843. UNION OF INTERNATIONAL FAIRS/UNION DES FOIRES INTER-  
NATIONALES (UFI)  
10, rue La Boétie  
F-75008 PARIS, France

**Publications**

844. **EXHIBITION BULLETIN**  
Monthly. Advance information on shows, fairs and exhibitions taking place throughout the world.  
Publ.: London Bureau  
266-272 Kirkdale  
LONDON SW26, England
845. **M/A KALENDER (Calendar of fairs and exhibitions)**  
Annual. 1977. 456 p. Covers events from mid-1976 to mid-1977. Text in German; index in English, French and German. Issues monthly supplements with current information on fairs and exhibitions.  
Publ.: Messe- und Ausstellungs-Kontor Otto Müller  
P.O. Box 2605  
Grosse Eschensheimerstrasse 16  
D-6000 FRANKFURT/MAIN, Federal Republic of Germany

*And/or announcement columns in current periodicals listed in section VI*

**D. Financing and investing**

**Publications and documents**

846. **DIRECTORY OF EXTERNAL SOURCES OF FINANCING AVAILABLE FOR INDUSTRIAL PROJECTS IN DEVELOPING COUNTRIES**  
Prepared by UNIDO. 1969. 128 p. Reference material for selecting suitable sources of financing for industrial projects in developing countries. (UNIDO/IPPD/6)  
Order from:  
United Nations Industrial Development Organization (UNIDO)  
P.O. Box 707  
A-1011 VIENNA, Austria
847. **A GLOBAL DIRECTORY OF DEVELOPMENT FINANCE INSTITUTIONS IN DEVELOPING COUNTRIES**  
J. D. NYHART and E. F. JANSSENS. 1967. 449 p. Lists development finance institutions and gives relevant information.  
Publ.: Development Centre of the Organisation for Economic Co-operation and Development (OECD)  
91, boulevard Exelmans  
F-75016 PARIS, France
848. **IL AND T: INVESTING LICENSING AND TRADING CONDITIONS ABROAD**  
Reference service covering all the countries of the world. "Current awareness service"—loose-leaf format with periodic issuing of updated chapters.  
Publ.: Business International Corporation  
757 Third Avenue  
NEW YORK, New York 10017, United States of America

849. **INVESTING IN DEVELOPING COUNTRIES**  
 1970. 120 p. Lists facilities for the promotion of foreign private investment in developing countries.  
 Publ.: Organisation for Economic Co-operation and Development (OECD)  
 Château de la Muette  
 2, rue André Pascal  
 F-75775 PARIS, cedex 16, France
850. **LES INVESTISSEMENTS PRIVÉS AU SERVICE DU TIERS-MONDE**  
 L. DURAND-REVILLE. 1970. 368 p. Covers investment policies in developing countries.  
 Publ.: Editions France-Empire  
 68, rue Jean-Jacques Rousseau  
 F-75001 PARIS, France
851. **MANUAL ON INVESTMENT PROMOTION CENTRES**  
 Prepared by UNIDO. 1973. 99 p. Provides information on existing investment promotion institutions in developing countries and guidelines for those who want to establish them. (Sales No. 73.II.B.3)  
 Publ.: United Nations (see entry 837)

#### *E. Legislation*

##### *Publication*

852. **ENERGY LEGISLATIVE SERVICE**  
 Twice a month. Loose-leaf format.  
 Publ.: McGraw-Hill, Inc.  
 1221 Avenue of the Americas  
 NEW YORK, New York 10020, United States of America

#### *F. Marketing, exporting and purchasing*

##### *Organizations*

853. **CENTRO INTERAMERICANO DE PROMOCION DE LAS EXPORTACIONES (CIPE)**  
 Carrera 10a No. 14-33, pisos 10, 11 y 13  
 BOGOTA, D.E. 1, Colombia
854. **CENTRUM TOT BEVORDERING VAN DE IMPORT UIT ONTWIKKELINGSLANDEN** (Centre for the promotion of imports from developing countries)  
 Coolsingel 58  
 ROTTERDAM, Netherlands
855. **INTERNATIONAL TRADE CENTRE (UNCTAD/GATT)**  
 Villa le Bocage, Palais des Nations  
 CH-1211 GENEVA 10, Switzerland

856. **WORLD TRADE CENTER'S INFORMATION CENTER**  
North Tower Building  
111 Eighth Avenue  
NEW YORK, New York 10011, United States of America

*Publications*

857. **EXPORT PROMOTION BY PRIVATE SECTOR ORGANIZATIONS**  
1971. 280 p. In English, French and Spanish. Covers all aspects of export trade promotion; list of relevant organizations and bibliographies.  
Publ.: International Trade Centre (UNCTAD/GATT) (see entry 855)
858. **A GUIDE TO INDUSTRIAL PURCHASING**  
Prepared by UNIDO. 1972. 45 p. (Sales No. 72.II.B.19)  
Publ.: United Nations (see entry 837)
859. **INTERNATIONAL DIRECTORY OF MARKETING RESEARCH HOUSES AND SERVICES**  
Irregular.  
Publ.: Marketing Review  
527 Madison Avenue  
NEW YORK, New York 10022, United States of America
860. **MARKETING AND MANAGEMENT: A WORLD REGISTER OF ORGANIZATIONS**  
Irregular.  
Publ.: CBD Research Ltd  
154 High Street  
BECKENHAM, Kent BR3 1EA, England
861. **NUEVOS MERCADOS: LA REVISTA DEL EXPORTADOR LATINO-AMERICANO**  
Monthly.  
Publ.: Centro Interamericano de Promoción de las Exportaciones (CIPE)  
(see entry 853)
862. **REPertoire DES ORGANISMES COMMUNS CREES DANS LE CADRE DES COMMUNAUTES EUROPEENNES**  
Revised periodically with loose-leaf replacements. In Dutch, French, German and Italian. Includes lists of chambers of commerce and industry, trade organizations and other groups interested in marketing and trade.  
Publ.: Publications Office of the European Communities  
P.O. Box 1003  
1 LUXEMBOURG, Luxembourg
863. **TRADE FACILITATION NEWS**  
Monthly. Newsletter. In English and French.  
Publ.: United Nations Economic Commission for Europe (ECE)  
Palais des Nations  
CH-1211 GENEVA 10, Switzerland

864. **WORLD-WIDE CHAMBER OF COMMERCE DIRECTORY**  
Annual.  
Publ.: Johnson Publishing Company  
P.O. Box 455  
LOVELAND, Colorado 80537, United States of America

*G. Meetings and conferences*

*Publications*

865. **BIULLETEN' MEZHDUNARODNYKH NAUCHNYKH S'EZDOV, KONFERENTSII I KONGRESSOV** (Bulletin of international scientific conferences and congresses)  
Monthly. In English and Russian. Includes subject index.  
Publ.: Mezhdunarodnaia Kniga  
Smolenskaia Sennaia 32-34  
MOSCOW G-200, Union of Soviet Socialist Republics
866. **FORTHCOMING INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCES**  
Quarterly journal. Chronological list of forthcoming conferences in all fields of science and technology. Includes indexes by subject, location and sponsor of conference.  
Publ.: ASLIB  
3 Belgrave Square  
LONDON SW1 8PL, England
867. **WORLD MEETINGS: UNITED STATES AND CANADA**  
and  
**WORLD MEETINGS: OUTSIDE UNITED STATES AND CANADA**  
Quarterly journals. Two-year registries of future scientific and technical meetings to be held in the geographical areas covered. Include keyword indexes, sponsor and address directories.  
Publ.: Macmillan Publishing Company, Inc.  
866 Third Avenue  
NEW YORK, New York 10022, United States of America

*And/or announcement columns in current periodicals listed in section VI*

*H. Packaging*

*Organization*

868. **EUROPEAN PACKAGING FEDERATION**  
Van Alkemadelaan 700  
THE HAGUE, Netherlands



## **Publications**

869. **INTERNATIONAL DIRECTORY OF ASSOCIATIONS AND ORGANIZATIONS CONCERNED WITH PACKAGING**  
Lists associations and organizations by country and by industry branch. Gives information on advisory services, machinery, warehouses, transport and handling.  
Publ.: European Packaging Federation (see entry 868)
870. **PACKAGING ABSTRACTS**  
Monthly. Issues about 3,000 abstracts a year covering 100 domestic and foreign journals, books, reports, conference proceedings and patents. Annual author and subject indexes and list of periodicals covered in the January issue.  
Publ.: Research Association for the Paper and Board, Printing and Packaging Industries (PIRA)  
Randalls Road  
LEATHERHEAD, Surrey KT22 7RU, England

### *I. Patents and licences*

#### **Organizations**

871. **ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION: PATENT SERVICE**  
1800 Sixth Street  
WASHINGTON, D.C. 20545, United States of America
872. **INTERNATIONAL PATENT DOCUMENTATION CENTRE/INTERNATIONALES PATENTDOKUMENTATIONSZENTRUM (INPADOC)**  
Postfach 163  
Möllwaldplatz 4  
A-1041 VIENNA, Austria
873. **WORLD INTELLECTUAL PROPERTY ORGANIZATION (WIPO)**  
32, chemin des Colombettes  
CH-1211 GENEVA 10, Switzerland

### *J. Standards and specifications*

#### **Organizations**

874. **COMITE EUROPEEN DE COORDINATION DES NORMES (CEN)**  
Tour Europe, Courbevoie  
F-75092 PARIS-LA DEFENSE, France
875. **INTERNATIONAL ORGANIZATION FOR STANDARDIZATION/ORGANISATION INTERNATIONALE DE NORMALISATION/MEZHDUNARODNAIA ORGANIZATSIIA PO STANDARTIZATSII (ISO)**

Central Secretariat  
Case postale 56  
1, rue de Varembe  
CH-1211 GENEVA 10, Switzerland

The international agency for standardization comprising the national bodies of some 70 countries.

*And/or the national standards institutes of individual countries (the addresses of which can be obtained from the ISO Central Secretariat)*

### ***Publications***

876. INTERIM PERFORMANCE CRITERIA FOR SOLAR HEATING/COOLING SYSTEMS AND DWELLINGS  
1975. 2 vols.

Publ.: Center for Building Technology  
Solar Energy Demonstration Program  
National Bureau of Standards  
Building 226  
WASHINGTON, D.C. 20234, United States of America

877. INTERNATIONAL ORGANIZATION FOR STANDARDIZATION: CATALOGUE

Annual. 1976. 177 p. Lists all ISO standards published up to December 1975. Standards are arranged by technical committee and numerically. Subject index; Universal Decimal Classification (UDC) index.

Publ.: International Organization for Standardization (ISO) (see entry 875)

878. INTERNATIONAL ORGANIZATION FOR STANDARDIZATION: MEMENTO

Annual. 1976. 117 p. Information on ISO activities, its member bodies, technical committees, subcommittees and working groups, with addresses.

Publ.: International Organization for Standardization (ISO) (see entry 875)

### ***K. Training***

#### ***Document***

879. GUIDE TO TRAINING OPPORTUNITIES FOR INDUSTRIAL DEVELOPMENT

Prepared by UNIDO 1977. 132 p. (PI/59)

Publ.: United Nations Industrial Development Organization (UNIDO)  
(see entry 846)

*L. Translation services*

*Organizations*

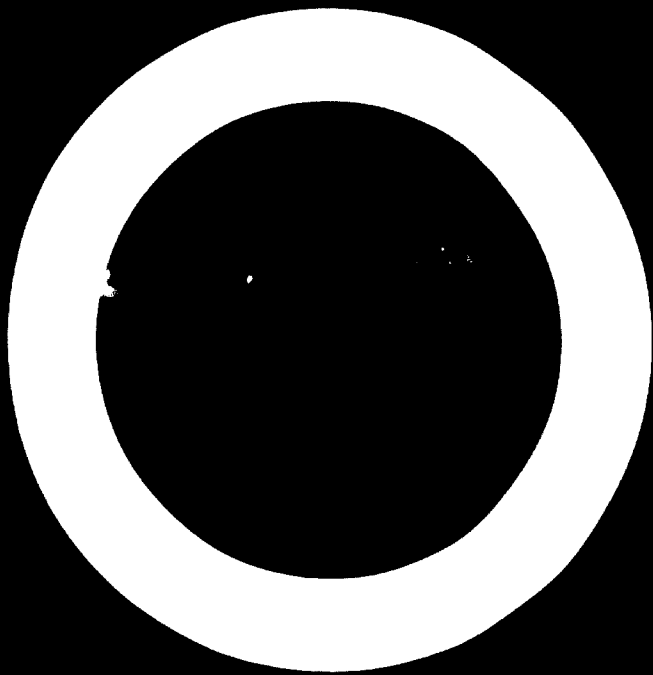
880. EUROPEAN TRANSLATION CENTRE (ETC)  
DELFT, Netherlands
881. NATIONAL LENDING LIBRARY FOR SCIENCE AND TECHNOLOGY  
BOSTON SPA, Yorkshire, England
882. NATIONAL TRANSLATION CENTER  
c/o Special Libraries Association  
235 Park Avenue South  
NEW YORK, New York 10003, United States of America

*Publications*

883. CATALOGUE MENSUEL DES TRADUCTIONS  
Monthly list of translations into French, mostly of scientific and technical articles. A comprehensive card catalogue from 1953 is available.  
Publ.: Centre national de la recherche scientifique (CNRS)  
15, quai Anatole France  
F-75007 PARIS, France
884. CONSOLIDATED INDEX OF TRANSLATIONS INTO ENGLISH  
Compiled by the John Crerar Library. 1969. 94 p. Lists all translations prior to 1966.  
Publ.: National Translation Center (see entry 882)
885. INDEX TRANSLATIONUM: INTERNATIONAL BIBLIOGRAPHY OF TRANSLATIONS  
Annual. Introduction in English and French. Multilingual bibliography of translations published throughout the world.  
Publ.: United Nations Educational, Scientific and Cultural Organization (UNESCO)  
7, place de Fontenoy  
F-75007 PARIS, France
886. TRANSLATIONS AND THEIR GUIDES  
J. P. CHILLAG, ed. Survey of lists and indexes of translations. Table gives data on 31 translation-announcement bulletins.  
Publ.: National Lending Library for Science and Technology (see entry 881)
887. WORLD INDEX OF SCIENTIFIC TRANSLATIONS  
Quarterly. Lists translations, both compiled and in progress, of articles, patents, standards etc. concerned with science and technology. Translations are mostly into English from Russian and other Slavic languages, Chinese and Japanese. Lists about 10,000 translations a year.  
Publ.: European Translation Centre (ETC) (see entry 880)

*M. UNIDO activities*

888. **INDUSTRIAL DEVELOPMENT ABSTRACTS**  
Every two months. Prepared by Industrial Documentation Unit, UNIDO. Indexes and abstracts the following types of UNIDO documents: (1) printed publications of UNIDO, i.e. major studies and reports, recurrent publications and series and selected articles from **INDUSTRIAL RESEARCH AND DEVELOPMENT NEWS** and **INDUSTRIALIZATION AND PRODUCTIVITY BULLETIN**; (2) documents submitted to the Industrial Development Board; (3) documents of expert working groups, workshops and seminars; (4) internal studies and reports; (5) information sheets; (6) technical assistance reports, including feasibility studies and project reports. (UNIDO/LIB/SER.B)  
Order from:  
United Nations (see entry 837)
889. **UNIDO NEWSLETTER**  
Monthly. In Arabic, English, French, Russian and Spanish. News on current activities of the organization. Available on request.  
Order from:  
United Nations Industrial Development Organization (UNIDO) (see entry 846)



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- No. 5/Rev.1 Foundry Industry
- No. 6 Industrial Quality Control
- No. 7/Rev.1 Vegetable Oil Processing Industry
- No. 8 Agricultural Implements and Machinery Industry
- No. 9 Building Boards from Wood and Other Fibrous Materials
- No. 10 Pesticides Industry
- No. 11 Pulp and Paper Industry
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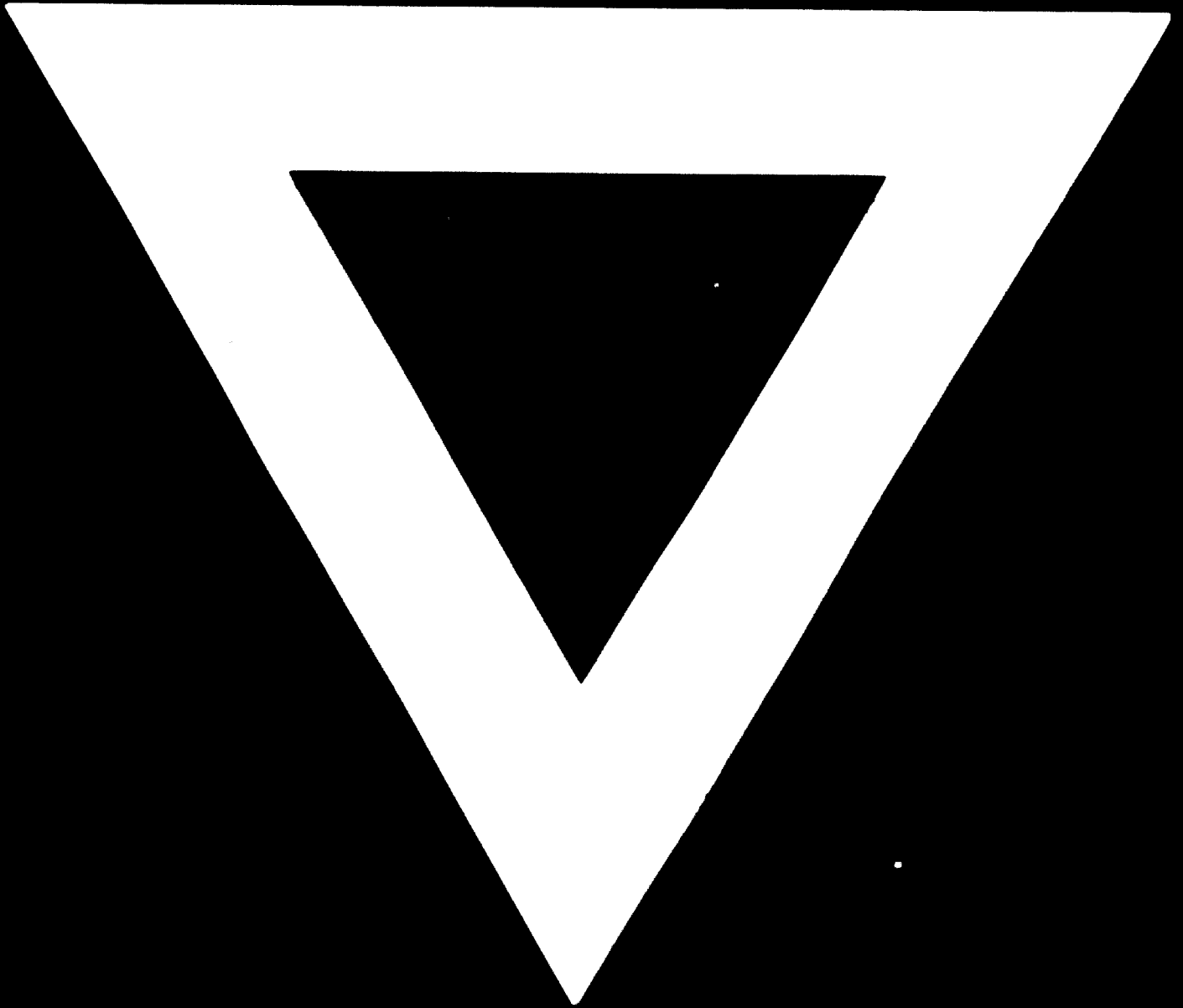
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