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FINAL REPORT

AUTOMATED INFORMATION SYSTEM PROJECT
FOR THE
ENERGY INFORMATION CENTRE, MINISTRY OF MINING, ENERGY AND TOURISM
OF THE
ENERGY SECTOR ASSISTANCE PROJECT
Contract No. 532-0065-0971/84

Submitted to

Project Manager
Energy Sector Assistance Project
Ministry of Mining, Energy and Tourism
Government of Jamaica
Kingston, Jamaica

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RUHL

information management

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INTRODUCTION

The Automated Information System Project was designed as an integral part of the USAID/Government of Jamaica Energy Sector Assistance Project. The primary goal of the project is to strengthen Jamaica's institutional capacity for energy management and to reduce the island's dependency on imported fuel.

The goal was to be achieved through

- o training personnel in the public sector to plan and manage energy development and energy utilization programs;
- o developing private sector capability for manufacturing solar water heaters, training a cadre of consulting engineers for conducting energy audits and retrofits, and raising awareness among professional organizations of the need for improving energy efficiency; and
- o managing an information and public education program on both energy conservation and the generation of energy from renewable resources.

An Energy Information Unit was established within the MMET (Ministry of Mining, Energy and Tourism) to collect, collate, classify, store, and disseminate information to individuals, organizations (public and private), and researchers involved in energy work in Jamaica. The Energy Information Unit was to be the center of a network of energy information outlets for Jamaica.

The Library at the MMET was to be expanded by increasing its energy holdings, establishing a computer facility to permit information retrieval from its own holdings and other data banks in the United States and worldwide, and training staff to handle these functions. The Library would work closely with and, in some cases, supplement the energy holdings of the University of the West Indies (Mona Campus), the College of Arts, Science and Technology (CAST), the Scientific Research Council (SRC), the Natural Resources and Conservation Department (NRCD), the Geological Survey Division (GSD), and the Petroleum Corporation of Jamaica (PCJ). The Library would become the headquarters for the Energy Information Centre and Network (EIC/N).

The Automated Information System Project was designed to fulfill the information center requirements described above. Using the existing MMET Library, the project would provide technical assistance with the following:

- o Establishment of a computerized information system to
 - facilitate bibliographic data storage and retrieval,
 - permit data retrieval from relevant U.S. information services, and
 - allow data exchange with relevant Caribbean information services;
- o Provision of training in the use of the new equipment and systems; and
- o Compilation of manuals and a thesaurus for use with the system.

The work would be performed over a period of approximately eighteen months, divided according to the following nine tasks:

- Task 1. Planning and Design
- Task 2. Development of Procedures, Standards, and Manuals
- Task 3. Selection of Hardware and Software
- Task 4. Training of Energy Information Centre and Network Staff
- Task 5. Identification of Resources and Establishment of Organizational Relationships
- Task 6. Identification of Users and User Requirements
- Task 7. Acquisition and Processing of Resources
- Task 8. Development of Information Products and Services
- Task 9. Evaluation and Recommendation for New Activities

The tasks were detailed in a Plan of Work (see Exhibit 1) which was followed throughout the project. The following sections describe project activities in each of the nine tasks. Related exhibits are appended to each chapter.

PLAN OF WORKTask 1. Planning and Design

- determining the existing hardware and software at the MMET, and planning for acquiring new hardware and software, as required;
- reviewing procedures for all library operations;
- reviewing procedures for interfacing with other related libraries;
- determining system requirements according to volume and growth of the collection and its potential use.

Task 2. Development of Procedures, Standards and Manuals

- selection of standards and conventions to be followed;
- review of processing procedures and revision in terms of automated system(s) to be used;
- writing manuals for "local" processing;
- trial use of manuals;
- review of text; revision as required.

Task 3. Development and Selection of Hardware & Software

- determining hardware and software required for library operations (in addition to that already available);
- determining hardware support available in Kingston;
- determining plans of related libraries in Kingston, to achieve compatibility within the Energy Information Network;
- surveying hardware and software available for the identified applications;
- recommending hardware/software to be acquired.

Task 4. Training of EIN Staff

- conducting training courses on
 - use of selected system,
 - development of capabilities for peripheral systems,
 - use of commercial online systems,
 - following procedures required for EIN;
- on-the-job training.

Task 5. Identification of Resources and Establishment of Organizational Relationships

- locating new energy-related resources, including
 - publications/data bases,
 - specialists
 - organizations;
- assisting with arrangements for access to those resources and organizations.

Task 6. Identification of Users and User Requirements

- examining present Energy Information Centre users;
- examining public education audiences;
- identifying user groups not presently served;
- recommending approaches to serving additional user groups.

Task 7. Acquisition and Processing of Resources

- assisting with acquisition procedures identified in Task 5;
- revising library processing procedures according to automated systems requirements.

Task 8. Development of Information Products and Services

- recommending new products and services feasible via expanded collection and automation capabilities;
- assisting with design and development of new products and services.

Task 9. Evaluation and Recommendations for New Activities

- overall examination of procedures and operations;
- recommendations for revisions to existing procedures;
- recommendations for new activities in any of above task areas, as appropriate.

TASK 1. PLANNING AND DESIGN

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Subtasks as indicated in the Plan of Work:

- determining the existing hardware and software at the MMET, and planning for acquiring new hardware and software, as required
- reviewing procedures for all library operations
- reviewing procedures for interfacing with other related libraries
- determining system requirements according to volume and growth of the collection and its potential use

=====
In February 1986, Ruhl Information Management (RIM) staff members attended planning meetings in Kingston with MMET Energy Information Centre and Energy Project staff. In addition, they met with representatives from the following organizations:

NACOLADS, Office of the Prime Minister
Planning Institute of Jamaica
University of the West Indies Science Library*
College of Art, Science and Technology Library*
Scientific Research Council Information Centre*
Natural Resources and Conservation Department Library*
Geological Survey Library*
Petroleum Corporation of Jamaica Library*
JAMINTEL

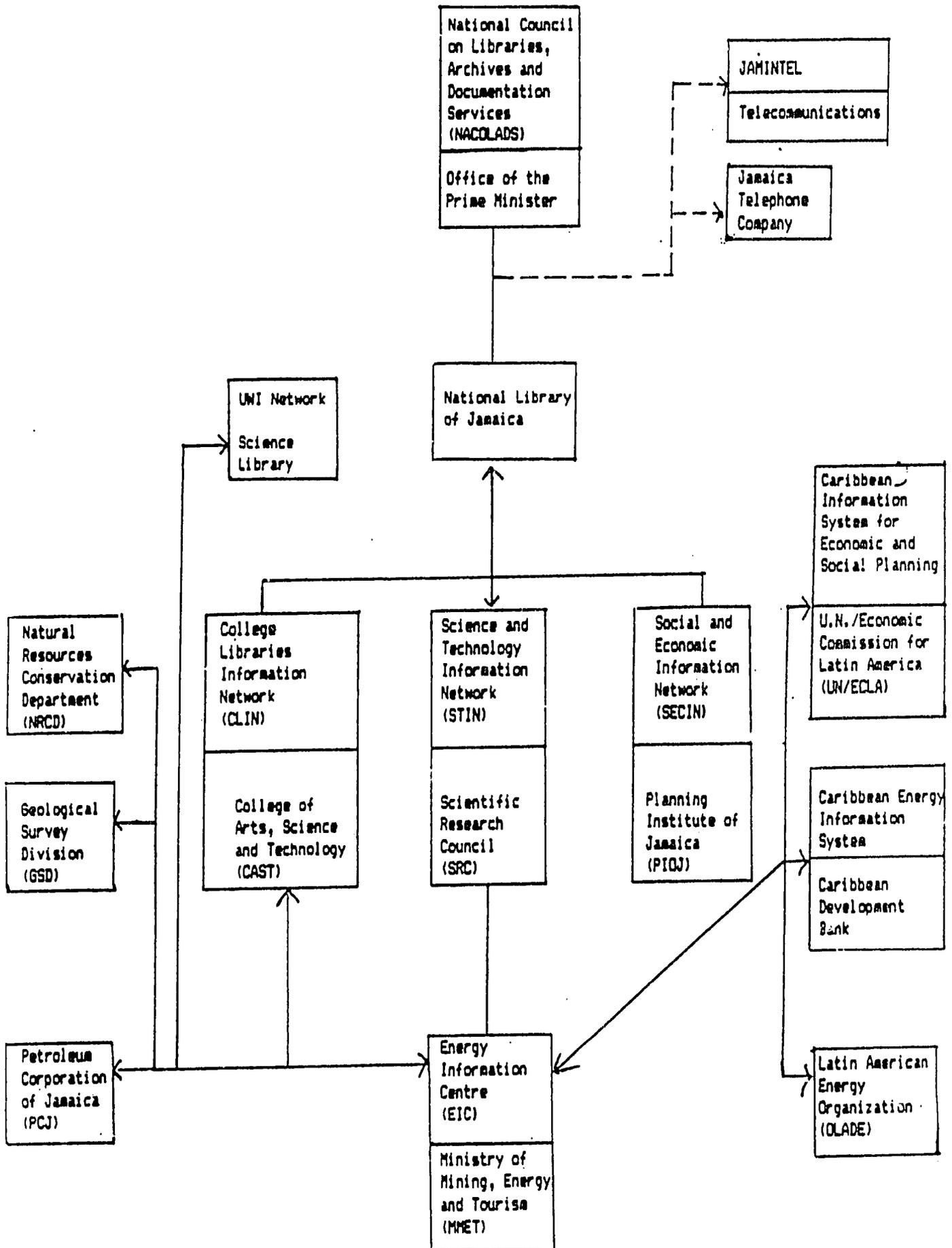
* Energy Information Network members

The purpose of the initial meetings was to:

- o Identify all the primary participants in the EIC/N,
- o Overview their energy collections and available computer hardware and software, and
- o Make contact with other Jamaican library/information organizations with which the EIC/N would be interacting.

Exhibit 2 shows the linkages between the EIC/N and other Jamaican and regional libraries and agencies concerned with energy information. Exhibit 3 describes the functions and resources as related to the EIC/N of the nine organizations listed above.

ENERGY INFORMATION LINKAGES



SUMMARY OF EIC/N MEMBERS AND RELATED ORGANIZATIONS

LIBRARY/INFO. CENTRE	RELATIONSHIP TO ENERGY INFO. NETWORK (EIC/N)	CONTACT	CATALOG./INDEXING	ENERGY RELATED SUBJECTS	ENERGY RELATED HOLDINGS	HARDWARE A=acquired, P=planned, I=investigated	SOFTWARE P=planned	PROBLEMS
Ministry of Mining, Energy & Tourism, Energy Information Centre (EIC)	Coordinators of Network; serve MHET staff, univ/coll faculties, students, industry, gen. pub. Serve as energy focal point for STIN, Jamaica's energy input to CARISPLAN	Ms. B. Mullings	UDC, LC; OECD Mac. for CARIS-PLAN input; TEST, other thesauri	All, inc. policy, mgmt	5,000 bks, reports; 70 ser's.	A: 2 IBM PC/XT P: IBM PC/AT	A: DBsIII WORDSTAR LOTUS123 STAT PAC MICROSFT PROJECT	Inadeq. telephone service; doc. del; restricted access holdings
Scientific Research Council Technical Information Centre	Coordinators of STIN; sci./R&D aspects of energy; serve same user groups as EIC. Natl. agent for NTIS. Plan to hook up with TRU at CDB where there is IBM mainfrm. Member of EIC/N	Mrs. M. Bardowell, Ms. Mona Telesford	UDC Roots Spines TEST	All, emph. on biogas & solar	2,000 tot. 100 energy related; regional ref. dir. & skills bank, 30-40% energy related	A: Televideo A: DBsII	A: DBsII	Inadeq. funds for mini.; confid. reports; inadeq. telephone service
Petroleum Corporation of Jamaica	Member of EIC/N; serves same clientele as EIC except gen. public excluded	Ms. E. Elwood, Ms. T. Richards	UDC;API & U. Tulsa thes.	Petrol., OTEC, geol., peat, explorn., gen. eng., hydro	3,000 itms also photos, slides, clippings, 70 ser's.	P: IBM PC for libr; now use PCJ's IBM PC	A: DBsII; Internal devel. library catalog. program	Restricted access; inadeq. telephone service;
College of Art, Sci. & Tech. Library	Member of EIC/N; same clientele as EIC; natl. focal point for college libraries; links with STIN	Ms. H. Salmon	LC cl. & sub. hdgs. AACR 2	Solar, wind, bldg. tch. gen. eng.	200 energy titles, (mostly solar; 6 solar serials	A: college has ICL & term's. & IBM PC's P: Commodores (Library expects to get one of micro's	Uncertain	Inadeq. telephone service
Univ. of West Indies Science Library (Kingston)	Member of EIC/N; exchange with STIN; not open to gen. public.	Mrs. St. Clair-Risden	LC cl.; consid. Roots, OECD Mac. OCLC, AACR2	General sci.	Not over 1,000 titles; 1,300 ser's library may total, not known quant.e.g. of energy-rel.	Univ. has mainframe; 1,300 ser's library may get micro, IBM PC	I: IV+V & Minnie Paris ISIS of foreign exchange;	Document delivery; inadeq. telephone
Natural Resources & Conservation Dept. Library	Member of EIC/N; represents environmental coverage rel. to energy; same users as EIC, but NRCD staff only are allowed in files. Natl focal point for INFOTERRA	Ms. P. Buchanan	LC cl.; most matls. uncataloged in vertical files	Thermal polln., air polln., bauxite, oil spillers, tech data files on Jamaica	Req's; vert. file, clippings	A: NRCD has Radio Shack micro		Suggest projects incl. budget for rel. books; inadeq. telephone
National Planning Institute of Jamaica	Serves as Jamaica's focal point for CARISPLAN; EIC sends planning & socio-economic input for CARISPLAN. Have sponsored publication of Jamaican abstracts journal. Serve Prime Minister	Mrs. A. Ononaiwu	Same as CARIS-PLAN	Policy, socio-econ.		A: 2 IBM PC 2 IBM Display-writers	Unicorn	Inadeq. telephone
National Library of Jamaica	Coordinates gen. activities for Jamaican library network of which EIC/N and STIN are members, e.g., Jamaica union list of serials; plan national bibliographic database	Ms. S. Ferguson, Ms. H. Brown	Consid. MARC, ISO2709, ISIS/CARIS, Unibar; use AACR	Government-produced matls. on energy		Use IBM 4341 at Natl. Computing Centre to prod. union list of serials; IBM 5281's for data entry; have Ka;-pro & Arkiv 3		
NACOLADS, Office of Prime Minister	Coordinates Jamaican library network	Mrs. S. Lampart					Interest in STIN IV+V; ISIS compatible.	
JAMINTEL	Provides international telephone access, e.g., to online services	Mr. D. P. Martin						

Based on these preliminary meetings, the basic design agreed upon for the EIC/N was as follows:

Overall Organization - The EIC/N would serve as the coordinating organization for Network systems, services, and activities. The other named organizations would participate in the preparation of input to the Network and share in the use of the Network's products and services.

Hardware - The EIC would use an IBM PC/XT microcomputer currently owned by the MMET. Storage to accommodate growing files would be added as required. Other centres would be encouraged to use compatible equipment to facilitate eventual exchange of data.

Software - Software would be selected for the IBM PC/XT computer, based on the overall need for database development, information retrieval, and other mechanized library operations. The selection of database software is further detailed in Task 3. Other software to be used would include MMET-owned packages such as Wordstar for word processing.

Telecommunications - Until the existing local telephone service is improved, e.g., by a special local area network, a telecommunications network for the EIC/N is not a viable option.

Multiple Access - Initially, multiple access by the network libraries would be via manual preparation of input and use of the various products. Each centre would prepare input to the database and furnish the information, via EIC/N input forms, to the EIC, where the data would be entered into the bibliographic retrieval system. When feasible, libraries with microcomputers could prepare input on diskettes for submission to the EIC. After the data are entered, the EIC would prepare catalogs and printouts of searches and furnish paper copies of those products to the member libraries. In the event that the other libraries would acquire similar retrieval software for use on their own microcomputers, the EIC would furnish those libraries with copies of the EIC/N database and updates, on a regular (monthly or bimonthly) basis, so that the libraries could use the database as an online catalog and to perform their own searches.

Network Participation and Flow of Work - Network policy guidelines were drafted to include selection criteria, members' responsibility for acquisition of materials, information delivery, and inter-network loan policies.

A plan for EIC/N members' processing included a schedule for submitting cataloguing forms for input to the EIC/N system on a monthly basis. Also, a schedule was established for regular meetings of network members, to allow them to plan network activities and discuss such issues as processing and network products and services.

TASK 2. DEVELOPMENT OF PROCEDURES, STANDARDS, AND MANUALS

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Subtasks as indicated in the Plan of Work:

- selection of standards and conventions to be followed
- review of processing procedures and revision in terms of automated system(s) to be used
- writing manuals for "local" processing
- trial use of manuals
- review of text; revision as required

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Over the course of the project, procedures and standards were developed. For each title, the centres would provide complete bibliographic details and would perform subject indexing by assigning keywords. The EIC would review the input sheets and translate the keywords into EIC controlled vocabulary terms. While the originating libraries would be responsible for the accuracy of all data, the EIC would provide overall quality control. Specific procedures were developed in the following areas:

Cataloguing - A cataloguing format that conforms to the requirements of the EIC/N was developed. It includes the various fields of information necessary for EIC in-house use and for other information programs in which the EIC is participating, such as CARISPLAN. The cataloguing format was designed to be as comprehensive as necessary and, at the same time, as simple and straightforward as possible. A cataloguing input form (see Exhibit 4) was designed and tested over a period of several months, and revised as required. Two documents, A Description of the Data Elements and Data Input Guidelines, were prepared. They are included as Exhibits 5 and 6.

Indexing - Work was begun on a controlled vocabulary to represent the subjects contained in documents in the EIC/N collection. This vocabulary was to be drawn from the following thesauri:

- o Energy Data Base Thesaurus of the U.S. Department of Energy, to be used as the basic authority;
- o Thesaurus of Engineering and Scientific Terms;

JAMAICA ENERGY DATABASE INPUT SHEET (please print clearly)		Circle one: New/Correct/Delete	
		Form completed by:	Data entered by:
1.ACCNO (001)		2.LIBRARY (020)	
3.CALLNO (610)		4.COPIES	
5.AUTHOR (300)	;		
	;		
	;		
6.TITLE (200)			
7.PLACE		9.PUBDATE	
8.PUBLISHER			
10.PHYSDS			
11.SERIES (480)			
12.SOURCE			
13.DOCTYPE		14.LANG (040)	
15.DISTRIB		16.ISBN (100)	
17.NOTES (500)			
18.DESCR (620)		;	
		;	
		;	
		;	
		;	
		;	
		;	
25.BIBHEAD		;	
		;	
		;	
19.JAMBIB	Does the item originate in Jamaica, is it by a Jamaican author, or is it about Jamaica (in full or in part)? Yes No		
20.CARIBIB	Does the item originate in the Caribbean region, is it by a Caribbean author, or is it about the Caribbean (in full or in part)? Yes No		
21.ABSTR (600)	If the answer to either of the above questions is yes, provide an abstract for the item. Use other side.		
22.MMENO		23.DATEIN	24.PUBYEAR

October 1985

JAMAICA ENERGY DATABASE--DESCRIPTION OF DATA ELEMENTS

These guidelines are based in part on the Anglo-American Cataloguing Rules (AACR/2). Consult AACR/2 for resolution of cataloguing questions not covered in the following examples.

1. ACCNO (001)* - The accession number for the record, assigned by the Energy Information Centre as the record is added into the computer database. It is 6 digits in length and should be entered as 000001 - 999999. For example,

000325
005431

2. LIBRARY (020) - Identifies the library owning the item. Use MME, CAST, GSD, NRCD, PCJ, SRC, or UWIS. Do not use periods between the letters.

3. CALLNO (610) - The classification number assigned to the item by the agency owning the item. Use whatever system is in place, exactly as normally entered. For example, UDC records should be entered as

621:52(72)

If the item does not have a classification number, indicate the location of the item in the library. Be as specific as possible to guide the user to the correct location. For example,

Info File (Public Information Campaigns)
V/File (include identifying information if necessary)

4. COPIES - The number of copies the library has of the item.
5. AUTHOR (300) - The name identifying the person(s) and/or corporate body and/or ad hoc committee responsible for or contributing to the creation of the intellectual or artistic content of the item. Enter up to four authors. Do not use acronyms, unless the acronym is the name more customarily used.

* Common Communication Format (UNISIST/UNESCO) field number.

Personal authors should be entered as last names, followed by first names (as available) and/or initials, followed by qualifiers. If an editor (ed.) or compiler (comp.) is specified, include that information last. Do not include titles such as Dr., Mrs., Mr., etc. Examples:

Essenay, Lann
 Essenay, Lann N., Jr.
 Essenay, F. V.
 Essenay, A.L., ed.

Corporate authors and other organizations associated with the document (e.g., performing organizations) should be entered as their names are customarily used. If a document is issued by a specific subdivision of the organization, enter the name of the main corporate body, followed by the name of the subdivision. If the subdivision's name is vague, e.g., "Statistical Office", insert the name of the intermediate office between them. Examples:

Shell International Energy Company
 National Academy of Sciences. Board on Science and
 Technology for International Development. Statistical
 Office

Government publications should be entered under the name of the area of jurisdiction, for example:

Jamaica. Ministry of Mining, Energy and Tourism.
 Public Education Branch

Use the same guidelines about issuing offices as outlined for corporate authors; i.e., insert the name of an intermediate division or branch to make sense of the name of a low-level office.

6. TITLE (200) - Use the title exactly as shown in the item as to wording and spelling, but use an initial capital only for the first word and for proper nouns. Enter a colon between the main title and any sub-titles, translated titles, etc. Include an edition statement when appropriate, and include the volume title if the item is one of a series. Examples:

Energy from the sun: the case for local power
 Solar thermal power systems: program summary
 Solar cooling for buildings: workshop proceedings,
 February 6 - 8, 1984, Los Angeles, California
 Energy handbook. 2nd ed.
 Fuels research. Volume 4: gasohol

Do not put a period at the end of the title.

7. PUBLPLACE - The city where the publisher is situated. If the city of publication is not well known, include further identification such as the country or state, as appropriate. If more than one city is shown, use the first one listed.
8. PUBLISH - The full name of the publisher of the item. If more than one publisher is shown, use the first one listed. Do not use abbreviations unless the publisher is the same as the author.
9. PUBDATE - The year of publication of the item. If no date of publication is shown, try to determine a probable date and enter it in brackets with a question mark, for example, [1977?] or [197?]. If an approximate date is known, enter as [ca. 1960]. If it is impossible to date the item, enter "n.d."
10. PHYSDDES - Description of the physical attributes of the item, including the total number of pages (p.), illustrations (ill.), tables, references (refs.), etc. Add price, if given, and show the type of currency. For example,
- 24p.
31 tables
12 diags.
122 refs.
ill. (some col.)
graphs
3 col. maps
US\$15
11. SERIES (480) - Enter name of series as given, followed by a comma and the series number in Arabic numerals.
12. SOURCE - The title, volume and issue number, and year of publication of the periodical in which a journal article appears, and the inclusive page numbers of the article. Use the STIN Union List as the authority for the format of journal titles. Capitalize the first letter of each significant word. For example,
- Journal of Documentation, 7:11 (1985) 1-41
Solar Energy Intelligence Report, 2:1 (1978) 17-20
- Use the SOURCE field also to record the title and author of a proceedings or a book in cases where a single paper or chapter has been cited as the main title.

13. DOCTYPE (060) - The intellectual form or presentation of the item, such as

Report
 Monograph
 Proceedings
 Conference Paper
 Journal Article
 Unpublished Paper
 Thesis
 Pamphlet
 Speech
 Film
 Videotape
 Computer Tape, etc.
 Maps
 Microfiche

Use initial caps on all words. If more than one document type is applicable, indicate both, for example,

Report
 Microfiche

14. LANG (040) - The language of the item. For example,

English
 Spanish
 French
 German

If the item is in two or more languages, list them all, for example,

English/German

15. DISTRIB - Leave blank if the item is for general distribution. Otherwise, indicate any limitations on distribution or availability. If necessary, include in parentheses any special distribution instructions. For example,

Limited (only one copy; does not circulate)
 Restricted (internal users only)
 Confidential (government staff only)

16. ISBN (100) - The International Standard Book Number, which identifies one title or edition from one specific publisher and is unique to that title or edition. Enter exactly as printed, including dashes. For example,

0-309-03534-1

17. NOTES (500) - Information that cannot properly be put into any other field, such as CARISPLAN number, unique numbers assigned to the item by the publisher or funding body, details about the funding/sponsoring organization, details about unpublished items, etc.
18. DESCR (620) - Descriptors/subject headings/index terms chosen to represent the concepts contained in the item. Can include geographic names, proper names, etc. Use as many descriptors as necessary. For example,

 Biomass
 Solar Collectors
 Energy Planning

Use initial caps on all significant words.
19. JAMBIB - Indicates if the item is to appear in the national energy bibliography. Circle yes or no.
20. CARIBIB - Indicates if the item is to appear in the Caribbean energy bibliography. Circle yes or no.
21. ABSTR (600) - A brief description of the content of the item. At present, include abstracts only for documents originating in the Caribbean, about the Caribbean, or by Caribbean authors. Abstracts should be approximately 75 words.
22. MMENO - The MME library accession number. To be used only for MME documents.
23. DATEIN - The date the item is entered into the database. To be filled in by the Data Entry Operator.
24. PUBYEAR - Repeat the year of publication for all documents.
25. BIBHEAD - Indicates the subject headings to appear in special bibliographies. To be assigned by MME.

October 1985

JAMAICA ENERGY DATABASE - DATA INPUT GUIDELINES

Turn on the computer and enter today's date when asked.

Type "I" in response to the menu to get into INMAGIC.

Type "m" to get into the Maintain Environment.

Type "ENERGY4" (the name of the data base).

Type your initials (user i.d.).

Type "c" to create new records.

Sign the ENERGY3 log and verify the next accession number.

Ready to go!

1. ACCNO (AC) (Jamaica Energy Database accession number) - Enter as shown on input sheet. Be sure the accession number is six digits, and that numerals (not letters) are entered.
2. LIBRARY (LI) (the library that owns the item) - Enter the 3 or 4 digit code name for the library: MME, CAST, GSD, NRCD, PCJ, SRC, or UWIS. Do not use periods in the code name. If an item is located in more than one library, enter the second library on a new line (starting with a semicolon and a space).
3. CALLNO (CN) (the classification number or location of the item) - Enter the classification number as shown on the input sheet.

MME classification numbers should be followed by a shelf location, for example,

(Wind)	(Biomass)
(Solar)	(Biogas)
(Cons)	(Coal)
(Planning)	(Peat)
(PSources)	(Nuclear)
(Hydro)	(Renew)
(Geo)	(Alcohol)
(Petroleum)	(Refuse)

If there is no shelf classification number, another location in the library may be given, for example, Info File, V/File, etc. When the location is an MME Info File, the name of the Info File is also specified, for example,

Info File (Power Resources - Jamaica)

Use initial caps on each significant word, put a space before

the parentheses, and, if a dash is used, put a space on each side of the dash.

If there are two library locations and two call numbers, be sure the libraries and call numbers are in the proper places, for example,

LIBRARY/1 MME	CALLNO/1 Info File
LIBRARY/2 GSD	CALLNO/2 V/File

If the call number is the same at both libraries, repeat it for both call number locations.

4. COPIES (CO) (the number of copies the library owns of the item) - Enter only if the number of copies is greater than one.
5. AUTHOR (AU) (the personal and corporate authors of the item) - Enter as shown on input sheet.

For personal authors, the format is:

Essenay, F. V.

Omit any titles such as Dr., Mr., Miss, etc.

For corporate authors, enter as shown on input sheet. Don't use acronyms; ask the Key Cataloguer for the correct full name if an acronym is used. And don't use ampersands; spell out the word "and." If there is a full stop in the corporate author, put only one space after it.

Remember to enter the second and subsequent authors on new lines starting with a semicolon followed by a space.

6. TITLE (TI) (the title of the item) - Use initial caps on the first word and for proper nouns only. Use spaces before and after hyphens, except for a hyphenated word. Don't end the title with a period. If there is a colon in the title, don't put any spaces before it and put one space after it.
7. PUBPLACE (PL) (the city where the publisher is situated) - Enter as shown on the input sheet. Don't include any punctuation following the publication place.
8. PUBLISH (PU) (the publisher of the item) - Enter as shown on the input sheet. There shouldn't be any acronyms or abbreviations in the publisher's name; if there are, ask the Key Cataloguer for clarification.
9. PUBDATE (PD) (the date of publication of the item) - Enter as shown on the input sheet. This field should never be empty; there should be a date, a date with a question mark, or the letters "n.d." (which stands for "no date"). Sometimes the date may be in square brackets; if so, include

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them also. If there is nothing in the field, ask the Key Cataloguer for clarification.

10. PHYSDDES (PH) (the collation or physical description of the item) - Enter as shown on the input sheet, using the following words/abbreviations:

p.
table or tables
diag. or diags.
refs.
map or maps
ill.

The price of the item (if known) is also included in this field. Enter as shown on the input sheet.

11. SERIES (SE) (the name of the series of which the item is a part) - Enter as shown on input sheet, capitalizing all significant words.
12. SOURCE (SO) (the journal in which an article appears or the proceedings or book in which a specific paper or chapter appears) - Enter as shown on the input sheet. For a journal, the format will be

Solar Energy Intelligence Report, 2:1 (1978) 17-20

13. DOCTYPE (DO) (the type of document) - Enter as shown on input sheet. Use initial caps on all words.
14. LANG (LA) (the language of the item) - If the language is English, do not enter it. If a foreign language is specified, enter it in full, for example, French, German, Spanish, etc. If English and another language are specified, enter both, separating each language with a slash. For example,

Spanish/English

15. DISTRIB (DI) (limitations on the distribution of the document) - If the input sheet says "general," do not enter anything. Otherwise, enter as shown on the input sheet.
16. ISBN (IS) (the International Standards Book Number) - Enter as shown on input sheet.
17. NOTES (NO) - Enter as shown on the input sheet.
18. DESCR (DE) (descriptors) - Enter as shown on the input sheet. Use initial caps for each significant word. Remember to enter the second and subsequent descriptors on new lines starting with a semicolon followed by a space.

19. JAMBIB (JB) (Jamaica national bibliography) - Enter y or n.
20. CARIBIB (CB) (Caribbean bibliography) - Enter y or n.
21. ABSTR (AB) (Abstract) - All records with a y in either the JAMBIB or CARIBIB fields should have an abstract. Enter the abstract as shown on the input form, but do not underline any words. Every continuation line must start with a single blank space. Do not hyphenate words and do not end lines with blank spaces; end each line with a carriage return directly after the last letter typed. It is better to have lines that are too short rather than too long. INMAGIC will reformat the lines when it accepts the record.
- Check each line of the abstract carefully as it is being typed!
22. MMEND (MM) (the MME library accession number) - If there is a classification number for an MME document, there should be an MME accession number. If there isn't one, ask the Key Cataloguer.
23. DATEIN (DA) (the date the item is entered into the database) - Enter the date that the item is entered using the format:
- Aug. 8, 1985
24. PUBYEAR (YR) - Repeat the year of publication for ALL ITEMS. Do not include brackets.
25. BIBHEAD (BI) (bibliography headings) - Enter as shown on the input sheet. Use initial caps for each significant word. Remember to enter the second and subsequent bibheads on new lines starting with a semicolon followed by a space.

After entering the record, examine it and write down all the fields that need corrections. Change any fields that are wrong, and insert any fields that were omitted. Once again, examine the record to be sure that it is correct. It is a good idea to check the screen against the input sheet to see that nothing was omitted. Don't worry about any strange spacing problems in the abstract; these can be corrected later.

Finished entering?

To leave INMAGIC, enter "e" in response to all questions until you reach the main directory (the C> prompt).

Turn off the computer unless someone will be using it immediately.

Be sure to complete the ENERGY3 Log, and file the entered input sheets in the appropriate folder.

- o AID Thesaurus; and
- o OECD Thesaurus.

As a first step, a list of all the terms used to date for indexing EIC/N documents was produced from the database. The EIC director, the Librarian from the Geological Survey Division, and a representative from RIM began to compile these terms into a thesaurus.

A document entitled Indexing Guidelines was prepared. It is included as Exhibit 7.

Work Flow Within the Network - It was decided that, first, each centre would prepare cataloguing input forms for their respective holdings of Jamaican or Caribbean origin. After entry of the Jamaican/Caribbean documents was completed, other recent high-priority documents would be processed.

For each title, the centres would provide complete bibliographic details and would perform subject indexing by assigning keywords. The EIC would review the input sheets and translate the keywords into appropriate terminology. While the originating libraries would be responsible for the accuracy of all data, the EIC would provide overall quality control.

Work Flow Within EIC - A flowchart was prepared to improve the work flow within the EIC, particularly with regard to the preparation of input for the automated system. In conjunction with the flowchart, descriptions of staff responsibilities were developed. The flowchart and staff responsibilities are included as Exhibits 8 and 9.

Computer "Housekeeping" - Daily and weekly routines for basic file management and cleanup were put in place. These included procedures for "backing up" the files on a regular basis to ensure against data loss in the case of a power failure or reduction.

Database Report Formats - Report formats were designed to meet the needs of the EIC/N, and instructions for preparing the various reports were prepared. (See Task 8 for details on reports).

Users Manual - A notebook containing all of the above guidelines and procedures was prepared and left onsite at the EIC.

October 1985

JAMAICA ENERGY DATABASE--INDEXING GUIDELINES

General

- o It is useless to have a document in the system if you can not locate it via appropriate indexing terms.
- o Ask yourself, constantly, whether the user will be pleased or displeased when he/she retrieves the document based on a term used to index it.
- o Keep in mind all the different types of users of the EIC database:
 - o policymakers
 - o researchers/students
 - o teachers
 - o industryIndex to meet the needs of all of these users, not just the users of your own library.
- o The average number of indexing terms per document is 8.5.

Indexing the Document

- o Review the document, including the title, abstract, table of contents, introduction, summary, and conclusions. Scan the entire text for subheadings and for diagrams, tables, etc., and their contents.
- o List all relevant concepts that are discussed in some detail in the document. Again, think of the user. He/she will not be happy if he/she retrieves a document and finds only one sentence that is about the topic.
- o Be specific. The more specific the indexing terms, the higher the relevance of the documents retrieved. Avoid using very broad terms when more specific terms are available.
- o Be exhaustive. Cover the entire document.
- o Concentrate on the document at hand--do not index accounts of past or future work.
- o Be objective. Avoid subjective criticism or selection of terminology that might place a different interpretation on the author's work.
- o Make sure that the index terms reflect what actually is in the document, not merely what the title or introduction may imply.

- o As appropriate, be sure to include
 - type of energy
 - processes used
 - purposes (e.g., design, site selection)
 - equipment
 - materials
 - facilities
 - end uses (e.g., agriculture, industry, domestic)

- o Is the document about
 - planning
 - policymaking
 - management
 - information transfer
 - education?
 If so, be sure to include those types of terms.

- o Is the document about certain
 - countries
 - climate zones?
 If so, be sure to include them as indexing terms.

- o Does the document contain
 - statistics
 - models
 - forecasts
 - surveys?
 If so, be sure to use those types of terms.

Review: Ask These Questions

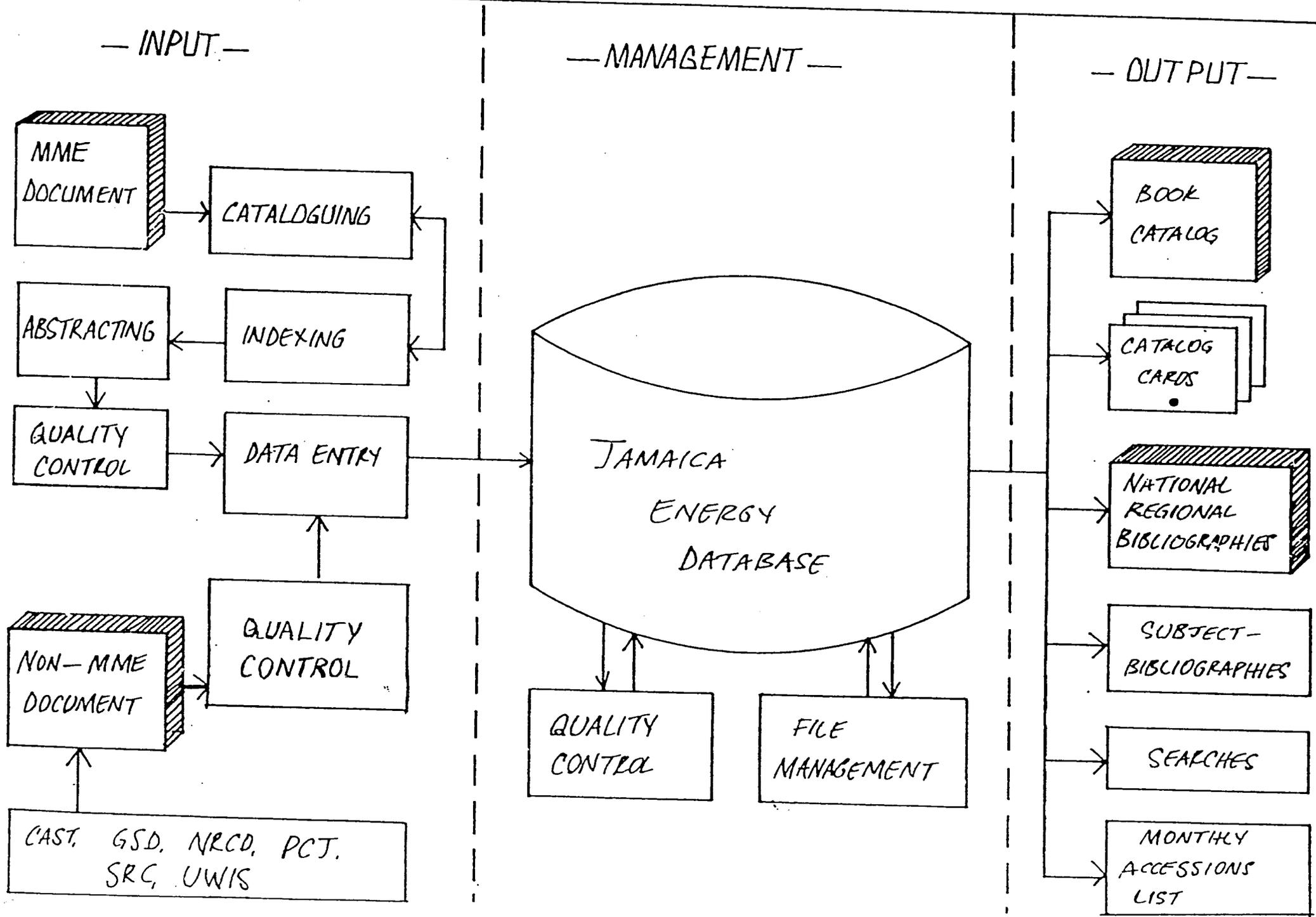
- o For each indexing term, ask "To obtain information on this topic, would the present document be a useful reference?"

- o Do the indexing terms represent the whole document? Scan the document once again to see that nothing important has been omitted.

- o Who would be interested in this document? Will that person be able to locate the document using the index terms that you have chosen?

- o Once again, will the user who retrieves the document be pleased or frustrated?

JAMAICA ENERGY DATABASE - WORKFLOW



JAMAICA ENERGY DATABASE STAFF RESPONSIBILITIES

Key Cataloguer

Check items for duplication
 Fill out input sheet
 Assign accession numbers &
 maintain log
 Write accession number on
 document
 Catalogue document

Key Indexer

Index documents
 Maintain thesaurus

Key Abstractor

Abstract documents and
 attach to input sheet

Quality Control Manager/
Proofreader

Review cataloguing
 Review indexing
 Review abstracting
 Proofread new entries
 weekly

Data Entry Specialist

Enter new records into
 database
 Question any missing data
 fields or problems
 Fill out ENERGY3 log
 File completed input sheets

Database Manager/Proofreader

Maintain workflow
 Backup files daily
 Print out new records weekly
 Proof new records weekly and
 correct databae
 Printout dupechecklist weekly
 (ACCNO, AU, TI)

TASK 3. DEVELOPMENT AND SELECTION OF HARDWARE AND SOFTWARE

=====

Subtasks as indicated in the Plan of Work:

- determining hardware and software required for library operations (in addition to that already available)
- determining hardware support available in Kingston
- determining plans of related libraries in Kingston, to achieve compatibility within the Energy Information Network
- surveying hardware and software available for the identified applications
- recommending hardware/software to be acquired

=====

Hardware and software requirements and their availability were surveyed as follows:

Hardware - As was mentioned earlier, it was agreed that the MMET's IBM PC/XT should be used for the EIC. This would also afford the greatest compatibility within the Network, since most other Network organizations had, or planned to acquire, IBM PC's. Exceptions were one Radio Shack microcomputer owned by NRCD and one Televideo owned by SRC. In addition to the IBM PC/XT, a list of equipment required for the EIC in the near future was submitted. It is included as Exhibit 10.

Software - A review of the data processing requirements of the EIC/N indicated that a software package would have to allow for the following:

- full bibliographic storage capabilities, including unlimited field lengths to accommodate long abstracts if necessary;
- retrieval by author, title, subject, etc., using the full range of Boolean search operators;
- full text searching;
- flexibility in report formats to meet a wide range of output requirements;

RECOMMENDATIONS FOR NEW COMPUTER-RELATED HARDWARE FOR THE EIC

The following hardware is recommended to be purchased as soon as possible, since all items can be used immediately.

Printer

The EIC needs a letter quality printer. Also, the existing high-speed printer should be replaced with a better quality machine. The recommended printer is the *Okidata 192* (standard carriage) @ \$350, or the *Okidata 193* (wide carriage), @ \$519, which provides high quality dot matrix printing which can be operated at 150 and 60 cps. The slower, near-letter-quality print would be acceptable for the EIC's correspondence and the various printed products to be produced from the database. This equipment is priced at approximately \$500.

Communications Modem

Recommendation is for the *D.C. Hayes Smartmodem*, particularly the model that runs all baud rates up to and including 1200. Approximately \$400.

Communications Software

Recommendation is for *Crosstalk*, available from Microstuf, Inc., 1845 The Exchange, Suite 205, Atlanta, GA 30339, (404) 952-0267. Approximately \$200.

Battery-Powered Clock

To solve the problem of power failures and clock stoppage, a battery-operated clock is recommended for the computer. One possibility is *Clockcard*, which can be plugged into one of the machine's slots. The obvious disadvantage is that it uses one of the slots which may be required for future additions. Approximate cost is \$75-\$100.

A better solution would seem to be a memory expansion board which includes a clock with batteries that will last for many years. In addition, the board provides 128K extra memory and both serial and parallel ports (an advantage since the Hayes Smartmodem prefers serial ports and the XT has only parallel ports, currently). While the board will use a slot, it compensates by providing the extra capabilities. Approximate cost is \$200.

Uninterruptable Power Supply

For 110-120 volt current, the 300-watt version (\$399 cash, slightly higher for other modes of payment) will continue the power supply for 5-10 minutes. The 425-watt version (approximately \$425) will continue for longer outages and will handle the XT and monitor (printer outage is not so crucial).

Page 2

The 425-watt version is recommended. There are a number of brands, e.g., *Sola* (more expensive), *Tripplite*, (\$425), and *PTI*, to name a few.

The following hardware is also recommended for purchase during the next year.

Additional Storage Units

As the EIC/N database grows, more storage will be required. The following can be used with the *XT* or with a larger computer, e.g., *IBM AT*, in the future:

o *Bernoulli Box*

-- 10 + 10 Mbyte unit @ \$2,400 + \$50-70 for cartridges,

or

-- 20 + 20 Mbyte unit @ \$3,100 (recently became available, do not know price of cartridges).

o Streaming Tape Device, approximately \$1,500 for a variety of brands, slightly slower than the *Bernoulli Box*.

The *Bernoulli Box* is recommended.

IBM AT Computer

The *IBM AT* will be useful for the EIC as its files grow larger, since it has twice the capacity of the *XT* and operates at 2-3 times the speed of the *XT*.

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- numerical calculation capabilities for ordering and other budget control;
- a serials control capability;
- internal index generation for use in thesaurus preparation and author authority lists; and
- downloading of files from other databases.

In addition to the suitability for the specific tasks listed above, other software criteria were:

- ease of installation,
- ease of training/learning,
- ease of use in operation, and
- price of package and cost/effort of installation.

A survey identified six library/database software packages that could be used on the IBM PC. Three of those packages were selected as contenders: CAIRS, INMAGIC, and SCI-Mate. All three could perform most or all of the required functions, their cost was under \$10,000, and non-programmer library staff could be trained to use them.

(NOTE: Two systems that were on the drawing board but would not be completed in time for this project were the USAID-developed microcomputer version of IDRC's MINISIS, named Menu-DIS, and the microcomputer version of CDS/ISIS which is being distributed by UNESCO.)

The prices for the packages were as follows (US\$):

- CAIRS basic package: \$2,500 per basic package (a special price offered to MMET).
- INMAGIC full package: \$850 for first copy, sliding scale downward for additional copies.
- SCI-Mate full package: \$880 for first copy, sliding scale downward for additional copies.

Exhibit 11 is a table comparing the systems' features. In addition to this comparison, four EIC representatives attended the ONLINE meeting in New York where they saw demonstrations of various retrieval systems. They also visited Washington, D.C., where RIM staff provided further demonstrations of the systems for their comparison.

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COMPARISON OF SYSTEMS BY CRITERIA INDICATED BY JAMAICA AND
SUGGESTED BY INDUSTRY STANDARDS

	ICAIRS	INMAGIC	SCIMATE
File/record definition	difficult	easy	easy
Data entry at the keyboard	yes	yes	yes
Multiple value/repeating fields	yes	yes	no*
Data entry from an ASCII file	yes	yes	yes
Auto download	yes	yes	yes
Accept foreign lang material	yes	yes	no
Free word searching	yes	yes	yes
Controlled language searching	yes	yes	yes
Thesaurus maintenance	no (but an extra package is available)	no (but an external package is available)	no
Local area networks	no	soon	only patches
Updates	yes \$100 /mon	yes \$85 /yr	? ?

Based on the comparisons of system features and the observations of the systems' operations, INMAGIC was chosen. The basic system (INMAGIC 6.3) was installed, as well as an advanced report generator and a password protection capability (INMAGIC 6.5).

Purchase of the INMAGIC system (for US\$850) would entitle the MMET to purchase up to four more packages for US\$425 each, if those purchases were made within one year of the original purchase. Another Network member, CAST, acquired the INMAGIC package.

TASK 4. TRAINING OF EIC/N STAFF

=====
Subtasks as indicated in the Plan of Work:

- conducting training courses on
 - use of selected system
 - development of capabilities for peripheral systems
 - use of commercial online systems
 - procedures required for EIN
- on-the-job training

=====
Training courses for the librarians from all EIC/N organizations were conducted as follows:

Course #1:

- How to use the microcomputer: survival techniques
- General purpose microcomputer programs (Wordstar, dBaseII, dBaseIII)
- Database development
- Cataloguing, abstracting, and indexing for a computer-stored database

Course #2:

- Use of INMAGIC: searching, adding records, editing, sorting, printing, designing and controlling a database

Course #3:

- Use of the new INMAGIC user-friendly report generator and password protection
- Indepth instruction in computer housekeeping and maintenance
- Review of INMAGIC use
- Indepth instruction in document analysis, indexing and thesaurus development

Outlines of these courses are included as Appendix A.

Approximately 20 persons attended the above courses. Nine persons attended all sessions of all three courses. All trainees had hands-on experience with the microcomputer and were able to

perform the various INMAGIC functions. However, only EIC staff members had the opportunity to continue use of the INMAGIC system and to develop more proficiency with the system's use.

The training courses were well-received by the participants. A course evaluation form was distributed at the first session and the resulting comments used to plan further sessions. The cumulated comments are included as Exhibits 12 and 13.

ENERGY INFORMATION SYSTEM: DEVELOPMENT & OPERATION
TRAINING COURSE MAY 20 - 22 & 24, 1985
EVALUATION QUESTIONNAIRE

1. GENERAL ASSESSMENT

I.1 Organisation

i) The sessions were generally:

Too long _____
Just right _____
Too short _____

ii) There were:

Too many sessions per day _____
The right number of sessions per day _____

iii) The sequence of the sessions were logically arranged:

Yes _____
No _____

iv) If no, explain:

v) Time management throughout was:

Good _____ Fair _____ Poor _____

vi) If poor, identify sessions/areas:

v) The venue was:

Satisfactory _____ Fairly satisfied _____ Not satisfactory _____
Inappropriate _____

vi) If fairly or not satisfactory, explain

vii) Break and lunch arrangements were:

Satisfactory _____ Fairly satisfactory _____ Not satisfactory _____

viii) If fairly or not satisfactory, give details

2. APPROPRIATENESS

i) The sessions were:

- a) very relevant to Network needs _____
- b) Not relevant to Network needs _____
- c) Of general interest only _____

ii) If (b), identify sessions and say why:

iii) I found that my expectation of the content of a session were met:

- a) in some of the sessions _____
- b) in all of the sessions _____
- c) in none of the sessions _____

iv) If (a) or (c) identify sessions in which expectations were not met.

v) One important topic which I think should have been included is:

vi) Which topics would you like included in a future course:

3. ANY OTHER COMMENTS

NAME..... LIBRARY.....

ENERGY INFORMATION SYSTEM: DEVELOPMENT & OPERATIONTRAINING COURSE MAY 20 - 22 & 24, 1985EVALUATION QUESTIONNAIRE - COMMENTS

1. I would like the next session to be longer with more time for work on the computer.
2. Need to have more hands-on exposure. Who will provide funding for computers at the individual library?
3. In the very first session I think more could have been said about the actual manipulation of the computer (e.g. the keyboard and its various keys - hardly anything was said) too much was said on software initially. Just to add to my response to question iv of section 2, I would quite agree if the question was raised that a discussion of the parts of the keyboard is in a large measure dependent upon the kinds of software to be used and towards what objective but, explanations could still have been provided on the different parts and use of the keyboard rather than making it so totally dependent on software as Mr. Batty had done.
4. More computers were needed, so that at least four people could have access to a computer.
5. The course was very informative and I found it quite useful.
6. I found the course to be very satisfactory and enlightening (for me personally) and a good amount of ground was covered.
7. A well organized course. Perhaps more computer applications would help.
8. Excellent introduction to computer hardware and software and use.

TASK 5. IDENTIFICATION OF RESOURCES AND ESTABLISHMENT OF ORGANIZATIONAL RELATIONSHIPS

=====
Subtasks as indicated in the Plan of Work:

- locating new energy-related resources, including
 - publications/data bases
 - specialists
 - organizations
- assisting with arrangements for access to those resources and organizations

=====
The first step in this task was to examine the EIC's current collection and its acquisition and exchange procedures. Among the operations reviewed were

- the subject scope of collection;
- the distribution of books, journals, newsletters, and other materials;
- the currency of materials in the collection; and
- the regularly tapped sources of new materials.

Exhibit 14 shows the major subject areas and types of materials of interest to the EIC/N.

In response to the review of the collection, the following activities were performed to enhance EIC's overall coverage of worldwide energy information.

MMET/EIC Visit to the United States

It was apparent that the EIC staff were actively and successfully pursuing the major sources of energy information. However, the process could be improved by bridging the gap between EIC staff and the suppliers of information resources. Therefore, RIM recommended and made arrangements for several EIC and other MMET staff members to visit the United States, specifically New York and Washington, D.C. This visit allowed those staff members to make first-hand contact with the primary suppliers of published and computer-retrievable energy information, and to assess the information's relative usefulness to the EIC/N.

SUBJECT AREAS AND TYPES OF MATERIALS
OF INTEREST TO MMET

Energy Areas

Biomass
Biogas
Wind
Solar (cooling, water heating, crop drying)
Photovoltaics
Conservation (electricity, gasoline)
Resource recovery/waste heat
Peat
Fuelwood/charcoal
Geothermal
Alcohol fuels

Related Areas

Library Science
Automation
Technology Transfer
Appropriate Technology

Types of Materials

Research and technical reports
Conference proceedings
Standards
Economic/cost evaluations
Statistical Data
Trade literature
Public education materials, including audiovisuals
Environmental impact studies
Policy/planning documents
Journals and newsletters

The organizations they visited included the following:

New York

American Overseas Book Company
Consolidated Edison Conservation Project
New Jersey Public Service Gas & Electric Company
Online Meeting (where MMET representatives could meet with numerous suppliers of library software, database suppliers and vendors of online bibliographic services, energy information suppliers, and representatives from similar technical libraries and information centres).

Washington, D.C.

AID Center for Development Information and Evaluation
Volunteers in Technical Assistance (VITA)
National Academy of Sciences
U.S. Department of Energy
National Energy Information Center
Library
Public Inquiries Branch
Energy Information Administration
Data Resources Directory Office
CAREIRS (Renewable Energy Inquiry and Referral Service)
Center for Renewable Resources
National Technical Information Service
Renewable Energy Institute
Solar Energy Industries Association

These visits greatly enhanced the process of identifying and acquiring energy-related materials for the EIC.

Identification of Information Resources

RIM identified and obtained relevant materials and contact information from various organizations in the Washington, D.C. area including U.S. AID, U.S. Department of Energy, U.S. Department of Agriculture, the World Bank, etc. A RIM staff member in Golden, Colorado, contacted the Solar Energy Research Institute and had extensive materials sent to the EIC.

Throughout the project, work continued on the identification of organizations that would provide information of interest to the EIC/N. Appendix B contains a listing of worldwide sources of energy information. These sources include publishers, information centres, and databases.

Facilitation of Book Ordering

The EIC had been experiencing problems with book orders placed via USAID to the American Overseas Book Company. At USAID's request, RIM identified some alternate approaches to be pursued and sent a list of vendors to the Energy Office at USAID. A list of potential vendors is provided in Exhibit 15.

Contacts with Other Related Organizations

RIM staff met with representatives of several other organizations that may, in the future, have a relationship with the EIC/N. These included the following:

- Mr. Dennis Minott of ENERPLAN, who described the telecommunications procedures he uses to conduct online searching of U.S. databases.
- Dr. Alejandro Cruz of OLADE, who was visiting the EIC to determine training and resource requirements that might be furnished by OLADE.
- Mr. Kiernan Broadbent of IDRC, who inquired about the EIC and how it might be related to the planned Caribbean energy information centre, possibly to be located in Kingston.
- Mr. Charles M. Gottschalk and Ms. Delia Torrijos of the Energy Information Programme, UNESCO (Paris), who are interested in learning about all national energy information programs.
- Mr. Frank Post of the NTIS developing country program, who inquired about the EIC/N with regard to a joint UNESCO/NTIS Caribbean energy information activity.
- Mr. Lee White, Ms. Judy Werdel, and Mrs. Ardeth Betts of the Center for Development Information and Evaluation, (CDIE) AID/Washington, in relation to (1) CDIE staff visits to other countries where energy information programs are under way, e.g., Thailand, and how the Jamaica EIC was being developed; (2) inquiries from other countries about AID-related energy information activities, e.g., computer software being used by the EIC, etc.; and (3) possible participation of the EIC in a pilot test that the National Technical Information service (NTIS) planned with the U.S. Department of Energy on a subset of the DOE database that encompasses the subjects of interest to developing countries.

NAMES AND ADDRESSES OF BOOK/JOURNAL VENDORS

Mr. Howard Carson
Vice President
EBSCO Subscription Services
8000 Forbes Place, Suite 204
Springfield, VA 22151
(703) 321-9630

Ms. Lorraine Pieterse
Faxon International Division
15 Southwest Park
Westwood, MA 02090
(617) 329-3350

Mr. Eugene Hansch
Vice President
Cucumber Bookshop Inc.
5611 Kraft Drive
Rockville, MD 20852
(301) 881-2722

Ms. Barbara Nelson
Reiter's Scientific and Professional Books
2120 Pennsylvania Ave. NW
Washington, DC 20037
(202) 223-3327

Ms. Paula Eiblum
InfoQuest
Suite 600
1803 Research Blvd.
Rockville, MD 20850
(301) 762-1200

Ms. Linda Futato
Federal Document Retrieval
514 C St. NE
Washington, DC 20002
(202) 628-2229

Mr. Al Paschall
INFO/DOC
Box 46330
The Pentagon
Washington, DC 20050-6330
(703) 979-5363

TASK 6. IDENTIFICATION OF USERS AND USER REQUIREMENTS

=====
Subtasks as indicated in the Plan of Work:

- examining current Energy Information Centre users
- examining public education audiences
- identifying user groups not currently served
- recommending approaches to serving additional user groups

=====
On the first visit of RIM staff to Kingston, lists of current EIC users were examined. The priority user groups were the MMET staff and the Energy Sector Project Assistance staff. The Public Education mailing list files, representative of the energy community in Jamaica, were also examined to determine potential user groups that had not become regular users of the EIC.

During the third quarter of this project, RIM staff assisted the EIC Director in preparing a user survey to determine user satisfaction with EIC service as well as user requirements that were not currently being met. More than 25% of the questionnaires were returned and analyzed.

In the early months of the project, the EIC continued to provide routine library service and announcements of new library acquisitions. During this time, the database system was installed and the production of the database and its products became fully operational. In February 1986 the EIC/N database had grown to more than 200 items. Appropriate report formats had been prepared and the system was ready for demonstration-level searching. All current EIC users were invited to attend either of two user seminars. More than 50 users attended. At the seminars they learned about the development of the EIC/N, the library collection, and the database and its products and services. The INMAGIC system was demonstrated and searches were performed to satisfy attendees' specific requests. An outline of the user seminars is included as Exhibit 16.

USER SEMINARS:

INFORMATION DELIVERY FROM THE ENERGY INFORMATION CENTRE/NETWORK

Overview

User seminars are conducted to

- o inform users of the types of services available
- o learn what users need most.

Users are informed about the various types of services to be offered by the EIC, i.e., to let them know what can be achieved via the automated service and database. This, in turn, allows the EIC staff to learn what the users' need are. These needs are likely to change after users learn more about the products and services available via automation.

The following information should be relayed:

- o Origin of EIC/N
- o Participation of Network organizational members
 - their input to the Jamaica Energy Database
 - how they will provide access to their users, e.g., by computer access, where applicable, or by printed products furnished by the EIC.

Products will include

- o master accessions list
- o current accessions lists, to be disseminated periodically
- o bibliographies on special topics
- o searches especially tailored for individual users' needs.

Users may receive these products

- o by getting on the EIC mailing list, or
- o by visiting the EIC or one of the Network libraries with computer access to the database.

Bibliographic Databases/Automated Retrieval

The use of bibliographic databases via automated retrieval systems in a library provide additional dimensions to user services. The following information may assist users in better understanding their capabilities:

- o Each document (book, journal article, or report) is described according to a standardized format which includes
 - Descriptive information such as
 - author
 - title
 - publisher or sponsoring organization
 - pagination
 - availability information--price, etc.

In other words, all the important information you require to lead you to the documents you may need. Also, when you see this information on a bibliography, it helps you to decide if the document may be of interest to you.

- Subject-related information, including broad, general subject headings as well as more specific "descriptors" or standardized words that facilitate finding exactly the topics that fill your needs.
 - Abstract, which describes the content of the document and, in some cases, will report the results of a study. This information further assists you in determining whether the document is the one you want to read.
- o For each document, the above information is entered into a computer file.
 - o The file can then be searched according to the specified "fields" of information, e.g., subjects, authors, or institutions.

Probably MOST IMPORTANT is that the computer can COMBINE SUBJECTS and SEARCH VERY RAPIDLY for ALL items on a given SUBJECT or COMBINATION OF SUBJECTS, thus saving users time in searching thru the library and reading numerous documents.

For this purpose, the bibliographic computer system, INMAGIC, was selected. It was designed especially for library applications by librarians. It allows the searching, described above, to be performed. It also does numerous other library chores.

u

The EIC Database

Some specifics on the database are:

- o Now approximately _____ items.
- o It is growing at the rate of _____ items per month.
- o The first priority in its development was to collect all relevant information produced in Jamaica and the Caribbean. NOTE: We invite you to call to our attention any items you know about that are of interest to the EIC, as well as persuading your colleagues to forward to us any documents they may have recently produced.

How to use it:

- o Come to the EIC, or write, or telephone.
- o Be prepared to sit down with one of the staff members and describe your enquiry by telling her
 - subjects you need/do not need
 - authors you know have written in your field (even if you have all of their reports, it assists the librarian if she can look up their records and see how they were described in the database)
 - dates or years of publication that you need/do not need
 - the title of a "perfect" report that would meet your needs (even if you have to "make it up")
 - how soon you need the information
 - how late is "too late".

The librarian probably will do your search after you leave the library and contact you if she has any questions. It is possible that she will do the search while you are in the library. However, librarians are accustomed to researching requests, then doing the searches later on.

It is important to let the librarian know how the search served your needs.

Also, let her know of any BROAD TOPICS you would find useful for a BIBLIOGRAPHY that the library should produce for general distribution.

Initially, there will be no CHARGES for searches or other products from the EIC database. Pricing policy for the future has not yet been determined.

TELL YOUR COLLEAGUES ABOUT THE SERVICE! This is the best way to ensure a database that will serve well the various user needs. As more requests are made, the staff will find out the types of publications that are most useful and those that should be acquired.

Future Plans

Within the next year it is expected that the EIC database will be available at other libraries within the Network, e.g., at CAST, etc.

Also, in a few months it will be possible to search, via local dialup, the several databases available from commercial organizations in the United States and Europe.

Perhaps in the future these databases will be searched for energy-related information that will be included in the EIC database for searching via the INQUIRE system. This will require some planning to ensure the cost-effectiveness of the material to be included since, in most cases, royalties will have to be paid to the original supplier for use of the data. It also will require careful assessment to determine the usefulness of the bibliographic information for which the original documents are not available, locally. Otherwise, it can take months to acquire the document after it has been retrieved through searching.

Commercially-Available Databases

The following bibliographic services are available via computer-retrieval systems:

- o Engineering Index
- o U.S. Department of Energy database
- o Chemical Abstracts Service
- o National Technical Information Service
- o Energyline/Enviroline
- o Petroleum Abstracts

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These are currently available by making a long-distance telephone call to Miami to connect a computer terminal or microcomputer to the commercial service. Later on, they will be available at a reduced price via a local telecommunications node that will be provided by JAMINTEL.

The prices vary for use of each database. Also, the prices vary among the various vendors. One vendor provides service during the evening hours at nearly half the price of the "day rates".

To give you an idea of the prices, we have estimated the cost for a 10-minute search on Chemical Abstracts which retrieved 15 citations that were read either at the terminal or were printed out and mailed to the EIC:

	<u>Daytime</u>	<u>Evening</u>
Long-Distance Telephone:	J\$36	J\$27
Communications Network:	10	10
Database Usage:	67	30
Charges for Citations:	<u>13</u>	<u>13</u>
Total:	J\$126	J\$80

In order to satisfy one enquiry, it might be necessary to search several databases, thus increasing the costs, but also increasing your chances of searching "exhaustively" and, in the long run, saving time and money by preventing unnecessary research or other work, or by allowing redefinition of a problem or project you are about to begin.

Prices as of February 1986

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TASK 7. ACQUISITION AND PROCESSING OF RESOURCES

=====
Subtasks as indicated in Plan of Work:

- assisting with acquisition procedures identified in Tasks 2 and 5
- revising library processing procedures according to automated systems requirements

=====
Selection and Acquisition of Material

Some acquisition activities were described as part of Task 5. In addition, acquisition procedures were established within the Network. The EIC/N libraries were encouraged to embark on an active acquisitions program, especially from Jamaican/Caribbean resources. The librarians were instructed how to prepare input for the EIC/N (see Task 2) to ensure that their materials would be reported correctly in the EIC/N database.

Questionnaires were distributed to the EIC/N libraries requesting details on the amount and types of material they each had for submission to EIC and on the anticipated dates for submission. A copy of the questionnaire is included in Exhibit 17. Based on the responses to the questionnaire, a database input schedule was developed.

The input schedule was not maintained by the other libraries. The major issue was the time that was required to prepare abstracts of the materials. Alternate approaches were considered, e.g.,

- a volunteer from one library would abstract another library's materials;
- having the Network members prepare cataloguing and indexing for their items and having the abstracting performed later by EIC staff;
- facilitating PCJ's input via machine-readable records by converting their data from dBASEIII to INMAGIC format.

At the end of the project, the scheduling issue had not been resolved entirely.

QUESTIONNAIRE TO EIC/N MEMBERS FOR DESCRIPTION
OF THEIR ENERGY COLLECTIONS

MEMBER:

DESCRIPTION OF ENERGY COLLECTION

Can you be specific, e.g., How many monographs? Reports?
Pamphlets? Journals? Other items? (please describe)

What is the range of publication dates of the energy materials?

How many items are about Jamaica, published in Jamaica, or by
Jamaican authors?

Are your items unique, or would other members own many of the same
documents?

Should all of your energy-related items be entered into the
database? How many should be entered?

TIMETABLE

Jamaica Bibliography

The first project of the Energy Information Center is to produce a
bibliography of all Jamaica-related energy materials.

When can you begin to submit input sheets for Jamaica-related items
to MME?

At what date will all current Jamaica-related items be submitted?

Regular Input

When can you begin to submit new documents to the system?

Can you complete input sheets for new items at the same time that
they are being catalogued for your library?

At what intervals can you submit new items? Weekly? Monthly?
Quarterly?

How will you handle items that are already on the shelves? Monthly
batches? Starting when?

Processing

Processing procedures for the Network and EIC as described in Task 2 were implemented. In addition, a numbering system was devised for application to inhouse MMET reports in the library and database.

TASK 8. DEVELOPMENT OF INFORMATION PRODUCTS AND SERVICES

=====
Subtasks as indicated in the Plan of Work:

- recommending new products and services feasible via expanded collection and automation capabilities
- assisting with design and development of new products and services

=====
The major file designed on the INMAGIC system was the bibliographic database (labelled ENERGY4), which, at the present time, contains more than 500 items. Initially, emphasis was placed on entering national and regional publications and new accessions.

The bibliographic database input format and cataloguing procedures (see Task 2) were developed to ensure flexibility in preparing a wide variety of products from the automated system. Formats for products and services were based on current and anticipated needs of the EIC. They include:

Short Title List - for quick, short printouts for housekeeping purposes.

New Accessions List - for the new accessions listing to be distributed to users on a regular basis.

Search Formats - three search formats for answering user enquiries. Each format shows a different amount of detail, from a short title listing to a complete record including the abstract.

Book Catalog - four formats for producing a cumulative book catalog of the entire collection including a main accession number listing and indexes by subject, author, and title.

Jamaica Energy Bibliography - four formats for producing a cumulative national bibliography, including a main accession number listing and indexes by subject, author, and title.

Catalog Cards - two formats, one for the author and subject cards, and one for the title cards to include subject tracings.

Examples of these reports and procedures for preparing them are included as Appendix C.

Several other data files remain in partial stages of development. These include

- Skills bank - initially to contain information gathered from the user survey (see Chapter 3) and to be further developed by surveying appropriate organizations;
- Jamaican energy research in progress.
- Renewable energy statistics - a database containing references to charts and tables of renewable energy statistics in publications located in the EIC. A file has been set up on INMAGIC to hold these data and sample records have been entered into the file.

TASK 9. EVALUATION AND RECOMMENDATIONS FOR NEW ACTIVITIES

=====
Subtasks as indicated in the Plan of Work:

- overall examination of procedures and operations
- recommendations for revisions to existing procedures
- recommendations for new activities in any of above task areas, as appropriate

=====
Evaluation of Procedures and Operations

At the beginning of the fourth quarter, the INMAGIC computer system had been installed successfully. All training courses had been completed and the trainees had achieved a level of skill for use of the computer systems most important to the EIC/N, namely, INMAGIC and WORDSTAR. The EIC staff were proficient in cataloguing, abstracting, and indexing.

The primary problem was in getting the other Network members "on board" with regard to maintaining a regular schedule to prepare and submit input to the EIC/N database. They expressed concern about the time required to perform this work. Since all organizations seemed relatively understaffed to carry out all of their own responsibilities plus the EIC/N input, there would have to be some alternative measures taken to ensure continued participation of all Network members. These have been described in Task 7; to date, however, the issue remains unresolved.

Working relationships had been established with numerous organizations that could furnish and/or share informational materials. The EIC collection had become quite comprehensive in its book and journal holdings. The collection of reports was still being developed, especially those generated in Jamaica and other Caribbean countries.

During the fourth quarter, operational problems became greater when three of the EIC staff resigned: a secretary who moved to the United States to join her husband; a library assistant who took a higher paying position at the Scientific Research Council; and the third, the EIC Director, who took a position that was more suited to her original training. This left nearly all aspects of the EIC collection development and database processing in abeyance.

As the project was approaching its close the EIC Director had been replaced by a trained librarian. One of the other two positions had been filled with a library assistant. The position for abstractor-indexer had been advertised. A college-level library assistant intern had begun work. These new staff members will have to become familiar with the EIC/N database operation by reviewing user manuals and materials assembled during this project, and consulting with other Network representatives. No provisions or remaining resources exist within this project for training new staff.

Recommendations for Revisions to Existing Procedures

The following recommendations are made to revise existing procedures to enable the expansion of the EIC/N's resources and services:

Thesaurus - Work should be continued on compiling a thesaurus. The thesaurus should be arranged according to the conventional format used for thesauri of descriptors, e.g., with alphabetical and hierarchical listings. Since the volume of descriptors is relatively small, this work can be done by using the microcomputer's word processing capability rather than sophisticated thesaurus software.

Equipment - The proposed additional equipment (Exhibit 22) should be acquired and put into use as soon as possible. In particular, a higher quality printer will result in more readable output from the database and also allow EIC staff to use the computer for regular correspondence, saving considerable staff time and effort.

Ongoing Training Program - All components for successful operation of the EIC/N are in place. The primary requirement is for trained librarians and library assistants to be employed at the EIC to carry out the various tasks. These tasks include continued development of the library collection and production of the database, and promotion of the EIC/N's products and services to specialists in energy-related positions in Jamaica.

Since the EIC is the lead organization in the Network, it is most critical that the EIC should be fully staffed with persons trained in all aspects of the operation. This is especially necessary to implement procedures and to coordinate work among other Network members. The following are therefore recommended:

- An immediate recommendation is for two persons (one currently at GSD and one at SRC) who were trained and had some experience in the use of INMAGIC, to conduct informal inhouse training sessions with new EIC staff.

- Basic and advanced training courses should be conducted periodically, at least once a year, to train new staff, both in the EIC and in other Network organizations. These courses should be conducted by professional instructors.
- Professional development workshops should be conducted by the EIC for all Network representatives, to allow the exchange of common concerns, discovery of new resources, and solutions to problems. These should be conducted bimonthly.

Identification of Resources and Establishment of Organizational Relationships - The following activities should be continued to ensure EIC's awareness of new information resources:

- A mailing list should be developed of all of the organizations listed in Appendix B. Those organizations should be contacted twice a year, asking them to send announcements of new energy-related items, including price and availability information.
- In addition to those organizations currently in the Network, other Jamaican organizations should be considered for inclusion. For example, the Ministry of Agriculture Library should be considered, since its scope overlaps somewhat with that of the EIC/N.
- More active involvement with both regional and other Caribbean countries' energy information activities should be pursued, to discuss issues of mutual interest, new developments in the field, solutions to problems, successful user education programs, etc.
- Programs of document exchange should be established with worldwide energy information centres, particularly with those centres in countries having energy needs and resources similar to Jamaica.

User Activities - The following user activities should be continued:

- Introductory user seminars should be conducted at least once a month, making sure that new potential user groups are invited.
- User surveys should be conducted on a regular basis, either informally, by telephone or during users' visits to the EIC, or by more formal means, such as questionnaire surveys.

- Constant efforts should be made to advertise the services available from the EIC/N. This may include having EIC/N representatives attend local (or regional) energy meetings and symposia; starting a "library column" in MMET's Energy News; and having an EIC/N representative accompany Education Unit staff on public relations visits, to explain the EIC/N's services and to determine attendees' information requirements.

Acquisition and Processing - The following activities should continue to be pursued:

- Alternate procedures for acquisition and processing within the Network should be tried, such as having the EIC provide more assistance to some Network members, if required, to ensure the inclusion of their materials into the database.
- The EIC should continue to explore alternate means of ordering books, hopefully to come up with an arrangement that is more satisfactory than the current one with the American Overseas Book Company via USAID.

Development of Products and Services - The following should be pursued to expand the development of products and services:

- As the database grows, new special bibliographies should be prepared on high-interest topics.
- The skills bank should be expanded and the entire file input to the INMAGIC system.

Recommendations for New Activities

As the EIC/N's current activities are expanded and activities that are now still in the developmental stage become operational, the following activities should be initiated:

Mailing List Automation - All EIC mailing lists should be input to the computer system and updated on a regular basis. They should include

- Network representatives
- users, coded by type of user, organization, etc.
- resource organizations listed in Appendix B, coded by type of organization, frequency of contact, etc.

Keeping Up With Technology - EIC/N staff should keep up to date on new technological developments that could be used to further enhance the EIC/N. They should scan library and computer technology publications that are available within the MMET or at other organizations such as the University of the West Indies. They should keep in regular contact with computer technologists within the MMET to tap their knowledge of new developments.

Online Bibliographic Retrieval Service - The EIC should plan to get access to the available online bibliographic retrieval services at the first opportunity. If possible, this should be immediately, although the costs will be somewhat higher now, before a telecommunications node is available for use in Jamaica. (See Exhibit 19 for a description of the service costs.) EIC/N staff members should be trained in the use of the online systems as soon as possible. Also, the EIC should set up user education seminars at which online services can be demonstrated and their cost explained. The MMET should establish a cost-recovery program that will enable the EIC to furnish the online services to their users and be fully reimbursed for the services' costs.

Selective Dissemination of Information (SDI) Service - As soon as the EIC database has grown to approximately 500 items, a service should be initiated whereby selected high-interest topics will be searched on a regular basis and the results distributed to the users who have indicated interest in those topics.

Network Messenger Service - The Jamaica Energy Database will contain titles of documents located in all member libraries. If a user identifies a title located in an offsite location, a method should be in place for getting that document to the closer network library quickly and efficiently. As the number of requests increase and as documents are constantly reshuffled, the EIC/N might consider a messenger that makes a daily trip to all network libraries. The messenger could also transport input sheets, bibliographies, correspondence, etc., saving telephoning and mailing costs. Perhaps the messenger could travel by bicycle or motorcycle.

Acquiring Additional Funds for the EIC/N - The MMET should use appropriate opportunities to acquire funds to pay for the EIC/N's services and to develop additional products and services. These might include the following:

- The EIC/N may consider charging users for database searches and for SDI. The search request formats developed under Task 8 already include a capability to count the number of titles retrieved, multiply that number by a fixed cost per title (currently set at \$0.0), and calculate the total cost of a search.

- Advertising and selling the Jamaica Energy Bibliography in other countries;
- Encouraging government and industry to include funds for library research, especially the online literature reviews, in all new projects.

APPENDIX A

TRAINING COURSE OUTLINES AND DESCRIPTIONS

JAMAICA ENERGY DATABASE PROJECT

FIRST TRAINING PROGRAM

20-22 May 1985

David Batty

20 May : HOW TO USE THE MICROCOMPUTER: SURVIVAL TECHNIQUES

- o use and care of the machine; how to handle and store disks; how to manage physical disk files
- o use of the operating system (PC-DOS): how to check on how big files are; if anything is wrong with them, how to put it right; how to delete files; how to copy or move files to another disk; how to clean house; how to print out files (how to dump); how to copy disks with a single command
- o how to handle the printer; cables, plugs and commands

NB: All attendees will have a user-friendly, hands-on experience at the microcomputer, using all the functions described above.

21 May : GENERAL PURPOSE MICROCOMPUTER PROGRAMS

- o word processing with WordStar: input of text; moving and changing text; printing; formatting; use of block-marking to store and retrieve segments of files; use of WordStar to develop or change program files for other systems
- o database management with dBaseII or dBaseIII: creating a file; putting data into a file; moving around in the file; editing or deleting records; displaying or printing files; indexing files to display or print in different orders; and a bit of programming in dBase

NB: All attendees will have a user-friendly, hands-on experience at the microcomputer, using all the functions described above.

22 May : DATABASE DEVELOPMENT

- o requirements for database development
 - user characterization
 - product characterization
 - resource characterization
 - system characterization and description
- o design of a record format
 - files
 - fields
 - types and sizes of fields
- o demonstration of a typical library and information retrieval package
 - calling up a system
 - searching in a system
 - putting records into a system
- o how to use what is available
 - and how to make it do more than it was designed to do
- o how to know what else to ask for

NB: During the training program, time in each day will be spent with the EIC/N participants to confirm and expand their expectations about the database and its use. Each day's study has been designed to allow for that discussion and to modify the training program if necessary. It is expected that by the end of the training program some modifications to the input sheet may have been suggested that can be used by EIC/N personnel during the period between the two training sessions.

TRAINING ON CATALOGUING, ABSTRACTING, & INDEXING

24 May 1985

Mary Jane Ruhl

- 9:00 Introduction
- Formal introductions
 - Introduction of attendees & role in EIC/N
- 10:00 Cataloguing procedures and guidelines - practice in completing Input Sheets
- Review of Common Communications Format (CCF)
 - Answering specific questions
- 12:15 Lunch
- 1:30 Abstracting - how to write an informative abstract and practice
- 2:30 Indexing - how to index documents for automated retrieval system and practice
- 3:30 Network work flow
- Schedule for participating centres to submit Input Sheets
 - Schedule for monthly network meetings

DOCUMENT ANALYSIS COURSE OUTLINE

Document Analysis

What is it?

Why is it necessary? - retrievability, consistency

How do we decide on the methods to follow?

- storage & retrieval system
- control of processing (centralized vs. decentralized)
- control of direct access
- avoidance of duplication with other systems

What are the basic components?

- cataloguing
- abstracting
- indexing

What are the most important considerations in preparing document analysis products?

- usability
- economics (cost-effectiveness: money & time)
 - storage
 - retrieval
 - input personnel time
 - user time

It is useful to acquire documents, analyze them, and store them only if

- the documents can later be located easily
- the retriever is satisfied
 - when he/she retrieves the record
 - when he/she orders and acquires the document

MOST IMPORTANT RULE: To ask oneself, constantly, when abstracting and indexing, whether the user will be pleased or disappointed if he/she retrieves the document by searching on the indexing term in question.

Descriptive Cataloguing

What is it?

What is its purpose?

- indicates where document was created and how to acquire the document

- provides some indicators for decision to acquire the document

The cataloguing information needs to be useful - it should not be added useless detail.

For the EIC/N, a cataloguing format and input form have been developed -

- to include all the basic bibliographic data elements

- to exclude very detailed, extraneous elements

- to take into consideration other related formats (e.g., CARISPLAN, CCF, etc.)

Review guidelines and form and have attendees catalogue some books to test the guidelines and identify problems

Discuss problems and resolve, or schedule meeting to resolve problems

Abstracting

What is an abstract?

An abstract is not a string of miscellaneous facts plucked or quoted from the original. It is one carefully built paragraph, a smoothly packed and blended nugget of information which will satisfy the reader that s/he has a clear and adequate understanding of the total material, and thus its usefulness for the reader.

What are various circumstances in which abstracts are required/used?

To learn reported results of a study.
To decide whether a document should be borrowed/purchased.
etc.

What are the different types of abstracts?

Indicative - indicates the type of contents and scope of the document.

Informative - reports actual findings from the document.

Indicative/Informative - describes the document's contents and scope and reports findings from the document.

How do you decide which type of abstract is required?

Volume/complexity of document, e.g., are there analytics?
e.g., a document with a wide range of subjects would require an indicative abstract; if each analytic is abstracted, an informative abstract might be prepared for each.

Original nature of the work described in the document.
A journal article representing original research would require an informative abstract; a state-of-the-art report would require an indicative abstract.

Users' relative access to the document.
A document that is difficult to acquire, or expensive, or is published in a foreign language might warrant an informative abstract; a similar but easily-accessible document might require an informative abstract.

What are the basic components of indicative abstracts?

Scope, e.g. from table of contents.
Intended audience, if not otherwise apparent.
Setting, how the document came about.
Description of content, including illustrations, etc.

What are the basic components of informative abstracts?

- Results! especially new ones.
- Purpose of study.
- Methodology.
- Principal findings, arguments, or conclusions.
- Most conclusive data, statistics.
- Authors' point of view or point of reference.
- Names of organizations or locations involved.

Discuss how the following are abstracted:

- Research report
- Reference/textbook
- Position paper
- Speeches or essays

How is the document examined for abstracting? Read

- Title and title page
- Introduction
- Summary, author abstract
- Table of contents
- Tables, illustrations
- Section headings
- Read any parts, as required from above analysis.

How is the abstract written?

- Indicative: present tense; informative - past tense.
- Begin with a "lead" sentence, journalistic style.
- Do not begin "This report---".
- Write complete sentences.
- Use active voice when possible.
- Avoid offering a critique or editorialization, e.g.,
do not write, "This report is lacking in---".
- Avoid including qualifying adjectives; e.g., "This very
effective study---" should not be used.
- Define new terms (use terse phrase, if possible).
- Concentrate on new findings, novel aspects.
- Indicate intended users.
- Avoid obscure abbreviations or jargon.
- Prune useless words!

What is the length of an abstract?

- Usually an average of 250 words.

Should author abstracts be used?

- They may be used verbatim if they give a comprehensive account of the document, and if credit is given to the author for also being author of the abstract. However, they may need to be enhanced with a few sentences.

Indexing

Why index?

To provide multiple access to the subjects represented in the document.

For consistency of terminology to be used when searching.

To provide standardized terminology for the searcher to use, to ensure retrieval of the most relevant material.

How is indexing done?

Examine the document for content: "about-ness".

Select relevant concepts that are appropriate to the content of the document.

Always keep the searcher in mind: if this subject is searched and this document is found, will it suit the searcher's needs?

Express concepts according to a thesaurus or controlled vocabulary for consistency.

For the EIC/N:

Thesauri to be used include

EDB Thesaurus (from U.S. Department of Energy)
Thesaurus of Engineering and Scientific Terms
OECD Macrothesaurus
AID Thesaurus

EIC/N thesaurus/controlled vocabulary will be developed by the following procedure:

Centres will assign key concepts to documents.
The EIC will translate the concepts into the terms contained in the EIC controlled vocabulary.
As new concepts are introduced, appropriate terms will be added to the EIC controlled vocabulary.

How is "concept indexing" done?

List all relevant concepts.

Be as specific as required per document's content.

Be exhaustive.

Do not index accounts of others' earlier work.

Select a concept to represent each "facet" represented in the document, e.g.:

Purpose, e.g. "Design," "Site Selection"
Processes used or studied
Energy modalities
Equipment
Materials/chemicals; properties
Facilities

Policy/administrative concepts
Methodologies
Mode of reporting, e.g., "Statistics"

Be exhaustive, but use good judgement in selecting concepts to be indexed; it is possible to over-index or under-index a document.

REPORT ON PHASE 2 TRAINING - 22-24 July, 1985

Introduction

David Batty conducted a three-day training workshop, 22-24 July 1985. The purpose was to introduce the EIN staff to INMAGIC, the selected library and information file management software package. The training workshop had been preceded by the Phase I training workshop, that introduced EIN staff to IBM-PC microcomputers (including IBM-XT) and specifically the fundamentals of PC-DOS and its commands, WordStar, and dBase II. A brief demonstration of searching and displaying a sample INMAGIC file was also included in the Phase I workshop.

Phase II Workshop

In the Phase II Workshop, six areas were covered:

- o searching an INMAGIC database (the SELECT environment)
- o adding records to an INMAGIC database (the MAINTAIN environment)
- o editing an INMAGIC database (the MAINTAIN environment)
- o sorting an INMAGIC database
- o printing from a SORTed or a SELECTed file
- o designing and controlling an INMAGIC database (the DEFINE and AUDIT environments)

NB: This last was covered only in indicative outline

as context for the functional environments, and for key personnel: it must be treated in depth in a further training session.)

A formal timetable is attached as Appendix A.

Content of the Phase II Workshop: INMAGIC Functions

Searching

The group learned and practiced all search commands in the SELECT (=search) environment. Every person in the group spent at least twenty minutes on the IBM-XT planning and entering searches, both search statements and the strategies that control them. These included:

- o searches involving more than one field
- o the use of AND, OR and NOT to link search statements
- o the use of GREATER THAN, LESS THAN, EQUAL TO (etc) relationships singly or in combination to control search terms in fields
- o the use of CONTAINS WORD, CONTAINS STEM, and STARTS WITH relationships to direct searches

As each person worked at the keyboard, the group observed, monitored, and, when requested by the instructor, suggested modifications to searches. In this way, all members of the group were learning at all times.

Displaying and Printing

Everyone in the group had the sets of citations retrieved by SELECT searches displayed and printed, either in the default format, or by special report formats previously designed and set up for the EIN project training session.

Input

Every member of the group input at least one record from the EIN standard input forms (most input three), and called it/them up to display, modify, and finally accept it to the database.

Sorting

Every member of the group joined in a session in which three members of the group in turn used the SORT environment to sort the sample energy database in different, and complex ways, and printed it out. SORT in INMAGIC is simple enough that it was felt not to be necessary to have individual hands-on experience of this environment.

Controlling a Database by the AUDIT and DEFINE Environments

This session was conducted as a lecture/demonstration with one of the group at the keyboard, and the instructor at the white board. The group then joined in discussion of the techniques. Finally they designed a sample data structure and report format, which the person at the keyboard then implemented and used, with suggestions from the group.

Future

The next training workshop should confirm the use of INMAGIC for input and search routines, but mostly should train selected personnel in INMAGIC management functions like DEFINE, AUDIT, and the BUILD (index) subfunctions, and also in the methods by which they can train new personnel at the input and searching level.

REPORT ON TRAINING SESSION AT MMET 7-10 OCTOBER 1985

David Batty
CDB Enterprises, Inc.

The original intention had been for this, the third, training session to cover advanced INMAGIC use, especially incorporating the new features of the latest version of INMAGIC (version 6.5):

- o improved, user friendly report generation
- o password protection
- o on-screen editing of data files and report format files

It was also intended to include a session on the reasons for and techniques of indexing for a database, as opposed to "conventional" indexing, and a session on a practical approach to thesaurus development and maintenance.

General factors caused some changes in the program of the training session:

- o Several key staff changes left the Kingston team without some trained key personnel who had been more knowledgeable than the others.
- o New staff had joined the team.
- o INMAGIC Inc. delivered the new version of INMAGIC with only two of the three new features - on-screen editing was still in the beta-test stage.

Further, the training session was the last of those planned in the original project design, and several physical mishaps, mainly to do with power failures in Kingston, had suggested an urgent need for all personnel to be trained fully and practically in housekeeping, emergency and file recovery situations.

Consequently the training session program was revised to fit the circumstances:

o 7 October (day 1): a complete, hands-on tutorial for all personnel present, on:

- care and maintenance of the machine -
even though in most cases technical personnel will be available
 - . connecting cables
 - . switching on and off
 - . the order of switching on component machines
 - . unplugging from the wall
 - . how long to leave a machine running but unattended
- care and maintenance of software (media and programs)
 - . how to handle disks

- . how to store disks
- . how to use disks
- use of the operating system for housekeeping
 - . moving from drive to drive
 - . displaying directories
 - . copying files
 - . copying disks
 - . printing out the contents of files
 - . erasing files
- o Oct 7 (day 1: continued): revision tutorial on the basics of INMAGIC
 - searching files
 - printing search results
 - printing whole files

(NB: At the end of day 1 all personnel were asked to bring a selection of typical documents for discussion and analysis on day 2.)

- o Oct 8 (day 2): Document analysis and indexing for a database

- The documents contributed by personnel were analysed by the group with the directional help of David Batty and Alix Levy. Several types of document were reviewed, from simple reports, to multi-paper conference proceedings.

. the exercise demonstrated that all documents fit into the format so far in use (though the format is still under revision and may be changed in the future).

. It demonstrated to the personnel how a document should be analysed - for both document-explicit information, eg, author, title, etc., and also document-implicit information, eg, subject descriptions.

- INMAGIC instruction continued with:

- . choice of fields to be displayed in a report format
- . design of the report format
- . input of the report format
- . use of the report format for some sample records

- c Oct 9 (day 3) am: review of other INMAGIC features and extension of the report format generation planning; reasons for having a thesaurus (ie. a controlled index language), practical methods for the local development of a thesaurus, and how to maintain the thesaurus.

- c Oct 10 (day 4 - morning only): housekeeping activities on the MMET IBM/XT:
 - cleaning up files

 - tidying BATCH front-end files by John Arnold

 - ensuring backup disk were made of all relevant programs and data files

APPENDIX B

WORLDWIDE SOURCES OF ENERGY INFORMATION

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Section 1. ORGANIZATIONS

This section lists 307 organizations that can provide renewable energy related publications or information service. The list contains representative worldwide energy information sources; it is not meant to be exhaustive.

The list is divided into three parts:

- a. Government - state/provincial, national, and international agencies, including publications offices, quasi-government organizations, and government laboratories that are operated by contractors.
- b. Private and Academic - including associations, universities, companies, and organizations whose sponsorship was uncertain; some are partially government-sponsored.
- c. Trade Publishers - trade publishing companies including major university publishers.

The organizations publish or provide professional assistance in English, with a few exceptions.

a. Government Organizations

Alberta Research Council
5th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta T6H 5R7
Canada

Argonne National Laboratory
900 S. Cass Avenue
Argonne, IL 60439
USA

Asia and Pacific Development Center of the United Nations
Pesiaran Data
P.O. Box 2224
Kuala Lumpur
Malaysia

Asian Development Bank
2330 Roxas Blvd.
Metro Manila
Philippines

Australian Government Publishing Service
G.P.O. Box 84
Canberra, A.C.T. 2601
Australia

Australian Institute of Energy
P.O. Box 230
Wahroonga, N.S.W. 2076
Australia

9/2

Brookhaven National Laboratory
Upton, NY 11973
USA

California Office of Appropriate Technology
1623 10th Street
Sacramento, CA 95814
USA

Caribbean Development Bank
Technology and Energy Unit
P.O. Box 408
Wilbey, St. Michael
Barbados

Ceylon Institute of Scientific and Industrial Research
363 Bauddalomha Mawatha
P.O. Box 787
Colombo 7
Sri Lanka

Commonwealth Regional Renewable Energy Info. System (CRRERIS)
314 Albert Street
East Melbourne, Victoria
Australia

Commonwealth Scientific and Industrial Organization (CSIRO)
CSIRO Central Information, Library and Editorial Section
314 Albert Street
East Melbourne, Victoria
Australia

Conf. Internatl. Grands Reseaux Electriques a Haute Tension
112 Boulevard Haussman
75008 Paris
France

Council for Scientific and Industrial Research
Center for Scientific and Technical Information
P.O. Box 395
001 Pretoria
South Africa

Economic Commission for Latin America & Caribbean
Caribbean Development & Cooperation Comm., Caribbean Doc. Centre
P.O. Box 1113
Port of Spain
Trinidad & Tobago

Energy R&D Inventory Project
Oak Ridge National Laboratory
Bldg. 3603
P.O. Box X
Oak Ridge, TN 37830
USA

Energy Research Information System (ERIS)
Old West Regional Commission
228 Hedden Empire Bldg.
Billings, MT
USA

Energy Resources Conservation Board
603 Sixth Avenue S.W.
Alberta
Canada

Food and Agriculture Organization of the United Nations
GIL Division
Via delle Terme di Caracalla
00100 Rome
Italy

German Agency for Technical Cooperation
German Appropriate Technology Exchange
Dag Hammerskjold-Weg 1
6236 Eschborn 1
West Germany

Institute of Scientific and Technical Information of China
P.O. Box 640
Beijing
China

International Development Research Centre
Box 8500
60 Queen Street
Ottawa, Ontario K1G 3H9
Canada

International Review Service
301 United Nations Secretariat Bldg.
New York, NY 10017
USA

Japan Information Center of Science and Technology
5-2, Nagatacho 2-chome
Chiyoda-ku
Tokyo
Japan

Japan Ministry of International Trade and Industry (MITI)
3-1 Kasumigaseki 1-chome
Chiyoda-ku, Tokyo
Japan

Korea Development Institute
207-41 Cheongryangri-dong, P.O. Box 113
Dongdaemun-ku
Seoul
Korea

Korea Energy Research Institute (KERI)
71-2 Jangdong-ri, Tandong-Myeon
Daedeck-Gun, Chungnam
C.P.O. 4311, Seoul
Korea

Korea Institute of Energy and Resources
Energy Laboratory
71-2, Jang-Dong, Jung-Gu
P.O. Box Daejon 339
Daejon, 300-32
Korea

Korea Institute of Science and Technology
Regional Development Research Institute
39-1 Hawolgok Dong Sungbuk JU
Seoul
Korea

Korea Scientific and Technical Information Center (KORSTIC)
Dept. of Information Resources
C.P.O. 1229
Seoul
Korea

Latin American Energy Organization (OLADE)
Dept. of Information and Public Relations
10 de Agosto 5133 Y
Naciones Unidas, Casilla 6413, C.C.I.
Quito
Ecuador

Lawrence Livermore National Laboratory
P.O. Box 808
Livermore, CA 94550
USA

Los Alamos National Laboratory
Mail Stop A-100
Los Alamos, NM 87545
USA

National Academy of Sciences
Board on Science and Technology for International Development
2101 Constitution Avenue, N.W.
Washington, D.C. 20418
USA

National Center for Alternative Technology (NCAT)
Llyngwern Quarry
Machynlleth, Powys, Wales
UK

National Energy Information Centre
National Energy Administration
Rama I Road
Bangkok
Thailand

National Engineering Center
University of the Philippines, Diliman Campus
Quezon City, Metro Manila
Philippines

of

National Library of Australia
Gift and Exchange Section
Canberra, A.C.T. 2600
Australia

National Productivity Council
Productivity House
Lodi Road
New Delhi 110003
India

New Zealand Department of Scientific and Industrial Research
Science Information Division
P.O. Box 9741
Wellington
New Zealand

New Zealand Energy Research and Development Committee
University of Auckland
Private Bag
Auckland
New Zealand

New Zealand Ministry of Energy
Private Bag
Wellington
New Zealand

Non-Conventional Sources Department
Interior Internado Palmira
Apartado Postal 475
Cuernavaca, Morelos
Mexico

Ontario Ministry of Energy
56 Wellesley Street West
Toronto, Ontario M7A 2E7
Canada

Organization for Economic Cooperation and Development (OECD)
International Energy Agency
Chateau de la Muette
2, rue Andre-Fascal
Paris.75775, Cedex 16
France

18

Pakistan Council of Scientific and Industrial Research
Directorate of Industrial Liaison
39 Garden Road
Karachi 0310
Pakistan

Parliamentary Group for Alternative Energy Strategies (PARLIGAES)
32 Elm Grove
London N8 9AH
UK

Philippine Center for Appropriate Technology and Training
Publications Dept.
Ground Floor, Manila Suite
1416 Felipe Agoncillo Street
Ermita, Metro Manila
Philippines

Philippine Council for Industry and Energy R&D
Rm. 513, Ortigas Building
Ortigas Avenue
Pasig, Metro Manila
Philippines

Philippines Ministry of Energy
Center for Non-Conventional Energy Development (CNED)
Don Mariano Marcos Ave.
Diliman, Quezon City
Philippines

Reg. Ctr. for Energy, Heat and Mass Transfer for Asia and Pacific
Dept. of Mechanical Engineering, Indian Inst. of Technology
Madras 600036
India

Regional Center for Technology Transfer
Bangalore 560052
India

Sandia National Laboratories
P.O. Box 5800
Albuquerque, NM 87185
USA

48

U.K. Department of Energy
Library
Thames House South
Millbank
London SW1P 4QJ
UK

U.K. Department of Energy Library
Thames House South
Millbank
London SW1P 4QJ
UK

U.S. Agency for International Development
Center for Development Information and Evaluation
PFC/CDIE/DI, SA-18
Washington, D.C. 20523
USA

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
USA

U.S. Department of Energy
Conserv. and Renewable Energy Inquiry and Ref. Service (CAREIRS)
P.O. Box 8900
Silver Spring, MD 20907
USA

U.S. Department of Energy
Energy Information Administration, Natl. Energy Info. Center
1000 Independence Avenue, S.W.
Washington, D.C. 20585
USA

U.S. Department of Energy
Energy Library
1000 Independence Avenue, S.W.
Washington, D.C. 20585
USA

99

U.S. Department of Energy
National Center for Appropriate Technology
Room 938
815 15th Street, N.W.
Washington, D.C. 20005
USA

U.S. Department of Energy
Off. of Renewable Tech., Conserv. and Renewable Energy
Forestall Bldg. CE-321; Rm. 5F043
Washington, D.C.
USA

U.S. Department of Energy
Technical Information Center
P.O. Box 62
Oak Ridge, TN 37831
USA

U.S. Government Printing Office
Superintendent of Documents
Washington, D.C. 20402
USA

U.S. National Aeronautics and Space Administration
Technology Transfer Division
Baltimore/Washington Internatl. Airpt., MD 21240
USA

U.S. Peace Corps
Information Collection and Exchange
806 Connecticut Avenue, N.W.
Washington, D.C. 20526
USA

U.S. Virgin Islands Government
Energy Department
P.O. Box 2996
St. Thomas, U.S. Virgin Islands
USA

UNITAR Centre on Small Energy Resources
Via Catalana
5-00186 Rome
Italy

United Nations Centre for Science and Technology for Development
Room DC-1148
United Nations
New York, NY 10017
USA

United Nations Conference on Trade and Development
Information Service
Palais des Nations
Geneva
Switzerland

United Nations Development Programme (UNDP)
Division of Information
One United Nations Plaza
New York, NY 10017
USA

United Nations Educ., Scientific and Cultural Org. (UNESCO)
Energy Information Programme
7, place de Fontenoy
75007 Paris
France

United Nations Industrial Development Organization (UNIDO)
UNIDO Newsletter
P.O. Box 300
A-1400 Vienna
Austria

United Nations Publications
Room A-3315
New York, NY 10017
USA

United Nations University
Development Studies Division
Toho Seimei Building
15-1, Shibuya 2-chome
Shibuya-ku, Tokyo 150
Japan

World Bank Headquarters
Publications Dept.
1818 H Street, N.W.
Washington, D.C. 20433
USA

World Meteorological Organization
Publications Sales Unit
1211 Geneva 20
Switzerland

b. Private and Academic Organizations

Agricultural Information Bank for Asia
SE Asian Reg. Ctr. for Grad. Study and Res. in Agr. (SEARCA)
College, Laguna 3720
Philippines

AIM
Rue Saint-Gilles 31
B-4000 Liege
Belgium

Alternative Fuels Data Bank
Bartlesville Energy Technology Center
P.O. Box 1398
Bartlesville, OK 74003
USA

Alternative Sources of Energy, Inc.
Route 2, Box 90A
Milaca, MN 56353
USA

American Association of Engineering Societies
Dept. FC #4
345 East 47th Street
New York, NY 10017
USA

American Chemical Society
1155 Sixteenth Street, N.W.
Washington, D.C. 20036
USA

American Institute of Architects
1735 New York Avenue, NW
Washington, D.C. 20006
USA

American Institute of Chemical Engineers
345 E. 47th Street
New York, NY 10017
USA

American Society of Civil Engineers
O-87262
345 E. 47th Street
New York, NY 10017
USA

American Society of Mechanical Engineers
P.O. Box 3199, Grand Central Station
New York, NY 10163
USA

American Solar Energy Society, Inc.
1230 Grandview Ave.
Boulder, CO 80302
USA

Applied Energy Services, Inc.
1925 N. Lynn Street, Suite 1200
Arlington, VA 22209
USA

Appropriate Technology Development Organization
1-B, 47th Street, F-71
Islamabad
Pakistan

Asian Electricity
Times House
Throwley Way, Sutton
Surrey, SM1 4AF
UK

Asian Network for Industrial Tech. Information and Extension
RELC International House
30 Orange Grove Road, P.O. Box 160
Tanglin, Singapore
Singapore

Asian Recycling Association
P.O. Box 753
Bacolod City
Negros Occidental
Philippines

Association of Energy Engineers
AEE Energy Books
4025 Pleasantdale Road
Suite 340
Atlanta, GA 30340
USA

Australian Institute of Petroleum Ltd.
227 Colins Street
Melbourne, Victoria 3000
Australia

Battelle Columbus Laboratories
Publications Office
505 King Avenue
Columbus, OH 43201
USA

Battelle Energy Information Center (BEIC)
Battelle-Geneva Research Center
7 route de Drize
1227 Carouge-Geneva
Switzerland

Beijer Institute
International Institute for Energy & Human Ecology
Royal Swedish Academy of Sciences
Box 50005 S-104 05
Stockholm
Sweden

BHRA Fluid Engineering
Cranfield
Bedford MK43 0AJ
UK

Bio-Energy Council
1625 Eye St., N.W., Suite 825A
Washington, D.C. 20006
USA

Biomass Users Network
P.O. Box 960-4050
Alajuela
Costa Rica

Brace Research Institute
McGill University, Macdonald College
Ste. Anne de Bellevue
Quebec H3A 1C0
Canada

British Institute of Energy Economists
9 St. James's Square
London SW1Y 4LE
UK

Brookings Institute
1775 Massachusetts Avenue, N.W.
Washington, D.C. 20036
USA

Canadian Energy Development Systems International, Inc.
1729 Bank Street
Suite 209
Ottawa, Ontario K1V 7Z5
Canada

Center for Maximum Potential Building Systems
6438 Bee Caves Road
Austin, TX 78746
USA

Center for Renewable Resources
Room 638
1001 Connecticut Avenue
Washington, D.C. 20036
USA

Center for Science in the Public Interest
1757 S Street, N.W.
Washington, D.C. 20009
USA

Central Fuel Research Institute
P.O. F.R.I. - 828108
Dhanbad, Bihar
India

95

Central Power Research Institute (CPRI)
P.O. Box 1242
Bangalore 560012 Karnataka
India

Citizens' Energy Project
1110 Sixth Street, NW, #300
Washington, D.C. 20001-3687
USA

Clean Energy Research Institute
University of Miami
P.O. Box 248294
Coral Gables, FL 33124
USA

CODATA Secretariat
51 Boulevard de Montmorency
Paris 75016
France

Combustion Institute
200 South Craig Street
Pittsburgh, PA 15213
USA

Denver Research Institute
Development Information Service
University Park
Denver, CO 80208
USA

Development Technology Center
Institute of Technology, Bandung
Jl. Ganesha 10
Bandung
Indonesia

Earthscan
10 Percy Street
London W1F 0DR
UK

East-West Environment and Policy Institute
East-West Center
1777 East-West Road
Honolulu, HI 96848
USA

Eastern Research Analysis Corporation
P.O. Box 110
Farmington, CT 06032
USA

Edison Electric Institute
1111 19th Street, N.W.
Washington, D.C. 20036
USA

EIC/Intelligence
48 West 38th Street
New York, NY 10018
USA

Electric Power Research Institute
P.O. Box 50490
Palo Alto, CA 94303
USA

ENERCON Council
Philippine National Oil Company
Rm. 1006, PNOC Bldg.
Makati Avenue
Metro Manila
Philippines

Energy Alternatives International, Inc.
10200 W. 44th Ave.
Wheat Ridge, CO 80033
USA

Energy Economics Research Ltd.
7/9 Queen Victoria Street
Reading, Berkshire RG1 1SY
UK

Energy Management On-Line Network
Department 76
4025 Pleasantdale Road
Suite 340
Atlanta, GA 30340
USA

Energy Probe
43 Queen's Park Crescent E.
Toronto M5S 2C3
Canada

Energy Productivity Center
Mellon Institute
1925 Lynn Street
Arlington, VA 22209
USA

Energy Research Institute
P.O. Box 1184
Naples, FL 33939
USA

Energy Resources Development Center (ERDC)
Don Mariano Marcos Avenue
Quezon City, Metro Manila
Philippines

Energy Technology Support Unit
Enquiries Bureau
Building 156, AERE
Harwell
Didcot, Oxon OX11 0RA
UK

Environment Action, Inc.
1346 Connecticut Avenue, N.W., Room 731
Washington, D.C. 20036
USA

Environment Information Center, Inc.
292 Madison Avenue
New York, NY 10017
USA

Environmental Education Group
1543 North Martel Avenue
Los Angeles, CA 90046
USA

Erasmus University
International Centre for Energy Studies
Postbus 1738-3000 DR
Rotterdam
Netherlands

Federation of Engineering Insts. of SE Asia & Pacific (FEISEAP)
Don Mariano Marcos Avenue
Quezon City, Metro Manila
Philippines

Florida Solar Energy Center
300 State Road #401
Cape Canaveral, FL 32920
USA

Gastech Ltd.
2 Station Road
Rickmansworth, Herts WD3 1QF
UK

Georgia Institute of Technology
Library
Atlanta, GA 30332
USA

Geothermal Resources Council
P.O. Box 98
Davis, CA 95617
USA

Geothermal World Corporation
5762 Firebird Court
Mission Oaks, Camarillo, CA 93010
USA

91

Government Institutes, Inc.
966 Hungerford Dr., #24
Rockville, MD 20850
USA

Harvard Institute of Economic Research
Littauer Center, Room 201
Cambridge, MA 02138
USA

Hawaii Natural Energy Institute
University of Hawaii at Manoa
2540 Dole Street, Homes H11 246
Honolulu, HI 96822
USA

HTFS Information Office
Bldg. 392
Aere Harwell
Oxon, OX II ORA
UK

IIT Research Institute
10 W. 35th Street
Chicago, IL 60616
USA

Indian Institute of Science
Committee on Science and Technology in Developing Countries
Bangalore 560012
India

Institute for Mining and Minerals Research, Univ. of Kentucky
Publications Office
P.O. Box 13015, Iron Works Pike
Lexington, KY 40512
USA

Institute of Development Economics
42 Ichigaya Hommura-cho
Shinjuku-ku, Tokyo 162
Japan

100

Institute of Electrical and Electronics Engineers
Standards Department
345 East 47th Street
New York, NY 10017
USA

Institute of Energy
18 Devonshire Street
London W1N 2AU
UK

Institute of Energy Economics
No. 10 Mori Bldg.
1-18-1 Toranomon
Minato-ku, Tokyo 105
Japan

Institute of Gas Technology
IIT Center
3424 South State Street
Chicago, IL 60616
USA

Institute of Southeast Asian Studies
Heng Mui Keng Terrace
Pasir Panjang
Singapore
Singapore

Instituto de Recursos Hidraulicos y Electrificación
Jefe del Centro de Documentación, Dir. de Relaciones Públicas
Apto. Postal 5285, Zona 5
Panama
Rep. de Panama

Intercontinental Marketing Corporation
IFO Box 5056
Tokyo 100-31
Japan

International Association of Energy Economists
Petro-Canada
306-350 Sparks Street
Ottawa, Ontario K1R 7S8
Canada

International Conference on Energy Use Management (ICEUM)
P.O. Box 64369
Los Angeles, CA 90064
USA

International Electrotechnical Commission
3 rue de Varembé
1211 Geneva
Switzerland

International Solar Energy Society
UK/ISES
19 Albemarle Street
London W1X 3HA
UK

International Solar Energy Society, Inc.
P.O. Box 52
Parkville, Victoria 3052
Australia

Kentucky Center for Energy Research
Box 11888
Iron Works Pike
Lexington, KY 40511
USA

Lahmeyer Int. GMBH Consulting Engineers
D-6000
Frankfurt
Germany

Martini Engineering
2303 Harris
Richland, WA
USA

106

Massachusetts Institute of Technology
Energy Laboratory
Rm. E40-495
1-23 Amherst Street
Cambridge, MA 02139
USA

Midwest Planning Service
Iowa State University
122 Davidson Hall
Ames, IA 50011
USA

Motor-Columbus Consulting Engineers, Inc.
CH-5401 Baden
Switzerland

National Association of Home Builders
15th and M Streets, NW
Washington, D.C. 20005
USA

New Mexico State University
New Mexico Energy Institute
P.O. Box 3E1
Las Cruces, NM 88003
USA

Open University
The Energy Research Group
Walton Hall
Milton Keynes, MK7 6AA
UK

Passive Solar Institute
1625 Curtis Street
Berkeley, CA 94702
USA

Petromin Asia
Unit 1203
Tan Boon Liat Bldg., 12th Floor
315 Outram Road
Singapore 0316
Singapore

103

Philippine Women's University
Barangay Technology Center
Taft Avenue
Manila
Philippines

Policy Studies Institute
Publications Department
1-2 Castle Lane
London SW1E 6DR
UK

Power Research Institute
Scientific Services Division
P.O. Box 1/KBT Kebayoran
Jakarta
Indonesia

FV Energy Systems, Inc.
2401 Childs Lane
Alexandria, VA 22308
USA

Renewable Energy Institute
1516 King Street
Alexandria, VA 22314
USA

Renewable Energy Resources Information Center (RERIC)
Asian Institute of Technology
P.O. Box 2754
Bangkok
Thailand

Research Group for Rural Technology
34 rue Dumont D'Urville
75116 Paris
France

Resources for the Future
1755 Massachusetts Avenue, N.W.
Washington, D.C. 20036
USA

Rice University Energy Research and Education Foundation
Room B49 Fondren Library
P.O. Box 1892
Houston, TX 77001
USA

Rossi-Nayve Consultancy Services, Inc.
International Recycling Group of Companies
P.O. Box 753
Bacolod City
Philippines

Solar Energy Industries Association
Suite 503
1717 Massachusetts Avenue, NW
Washington, D.C. 20036
USA

Solar Energy Research Institute (SERI)
1617 Cole Boulevard
Golden, CO 80401
USA

Solar Vision Inc.
Seven Church Hill
Harrisville, NH 03450
USA

SRI International
Publications Catalog 201A
333 Ravenswood Avenue
Menlo Park, CA 94025-3493
USA

Stanford Energy Information Center (SEIC)
Institute for Energy Studies, Stanford University
Terman Engineering Center
Stanford, CA 94305
USA

SYNERJY
P.O. Box 4790
Grand Central Station
New York, NY 10017
USA

102

Tata Energy Research Institute
Tata Energy Documentation and Information Centre
24, Homi Mody Street
Bombay 400 023
India

Technology Research Center
TRC Building
Buendia Ave. Extension
Makati, Metro Manila
Philippines

TOOL Foundation
Mauritskade 61a
1092 AD Amsterdam
Netherlands

Transnational Network for Appropriate/Alternative Technologies
(TRANET)
P.O. Box 567
Rangeley, ME 04970
USA

University of California at San Diego
Energy Center, Dept. of Applied Mechanics and Engineering
P.O. Box 109
La Jolla, CA 92093
USA

University of North Dakota
Engineering Experiment Station
Box 8103, University Station
Grand Forks, ND 58202
USA

University of Pennsylvania
Energy Center
Towne Bldg.
220 South 33rd Street
Philadelphia, PA 19174
USA

University of Puerto Rico
Centre for Energy and Environment Research (CEER)
GPO Box 3682
San Juan, Puerto Rico
USA

University of Rochester
Energy Research and Development Project
601 Elmwood Avenue
Rochester, N.Y. 14642
USA

University of Texas at Austin
Lyndon B. Johnson School of Public Affairs, Office of Pubs.
Drawer Y, University Station
Austin, TX 787121
USA

University of Wisconsin
Energy Research Center
2420 Electrical Engineering Bldg.
Madison, WI 53706
USA

Volunteers in Technical Assistance
1815 N. Lynn Street
Arlington, VA 22209-8438
USA

Watt Committee on Energy Ltd.
The London Science Centre
18 Adam Street
London WWC2N 6AH
UK

World Energy Industry
4202 Sorrento Valley Blvd.
San Diego, CA 92121
USA

Worldwatch Institute
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036
USA

c. Trade Publishers

Academic Press
111 Fifth Avenue
New York, NY 10003
USA

Acta Press
P.O. Box 3243, Post Station B
Calgary, Alberta T2M 4L8
Canada

Addison-Wesley Publishing Co.
Reading, MA 01867
USA

Alcohol Week
P.O. Box 7167
Washington, D.C. 20044
USA

Alternate Energy Publishing Company
P.O. Box 26507
Albuquerque, NM 87125
USA

Ambient Press Ltd.
Hornby, Lancaster LA2 8LB
UK

Ann Arbor Science Publishers, Inc.
230 Collingwood
P.O. Box 1425
Ann Arbor, MI 48106
USA

Arco Publishing Co.
P.O. Box 193
Provo, UT 84601
USA

Associated Book Publishers Ltd.
North Way
Andover, Hampshire SP10 5BE
UK

Ballinger Publishing Co.
54 Church Street
Harvard Square
Cambridge, MA 02138
USA

Benn Publications, Ltd.
Sovereign Way
Tonbridge, Kent TN9 1RW
UK

Books & Journals Private Ltd.
6/2 Madam Street
Calcutta 700 072
India

Brick House
3 Main Street
Andover, MA 01810
USA

Business Communications Co., Inc.
P.O. Box 2070C
9 Viaduct Road
Stamford, CT 06906
USA

Business Press International Ltd.
Quadrant House
The Quadrant
Sutton, Surrey SM2 5AS
UK

Business-Technology Books
P.O. Box 574
Orinda, CA 94563
USA

Butane-Propane News
338 E. Foothill Blvd.
P.O. Box 419
Arcadia, CA 91006
USA

Butterworth Scientific Ltd.
P.O. Box 63, Westbury House
Bury Street
Guildford, Surrey GU2 5BH
UK

Chemical Daily
International Division
Yashizawa Bldg.
31-7, Chinbasi 4-chome
Minato-ku, Tokyo 105
Japan

Construction Press
Longman House
Burnt Mill, Harlow, Essex
UK

CRC Press
2000 Corporate Blvd.
Boca Raton, FL 33431
USA

Croom Helm Ltd.
Provident House, Burrell Row
Beckenham, Kent BR3 1AT
UK

D. Reidel Publishing Co.
Kluwer Boston Inc.
190 Old Derby Street
Hingham, MA 02043
USA

Elsevier Science Publishing Co., Inc.
52 Vanderbilt Ave.
New York, NY 10017
USA

English Book Depot
15 Rajpur Road
Dehra Dun 248001
India

Environmental Action Reprint Service
2239 East Colfax
Denver, CO 80206
USA

Europa Publications Ltd.
18 Bedford Square
London WC1B 3JN
UK

Federal Publications Sdn. Bhd.
No. 1 New Industrial Rd.
Off Upper Paya Lebar Rd.
Singapore
Singapore

Film Instruction Co. of America
2901 S. Wentworth Avenue
Milwaukee, WI 53207
USA

Financial Times Business Information Ltd.
Bracken House, 10 Cannon St.
London EC4P 4BY
UK

Gale Research Co.
Book Tower
Detroit, MI 48226
USA

Garden Way Publishing
Charlotte, VT 05445
USA

111

Garland Publishing Inc.
136 Madison Ave.
New York, NY 10016
USA

George Allen & Unwin, Ltd.
Ruskin House
Museum Street
London
UK

Gower Publishing Co., Ltd.
Gower House
Croft Road, Aldershot
Hampshire GU11 3HR
UK

Gulf Publishing Company
Book Division
P.O. Box 2608
Houston, TX 77001
USA

Halsted Press
605 Third Ave.
New York, NY 10158
USA

Harcourt Brace Jovanovich
1250 Sixth Avenue
San Diego, CA 92101
USA

Harper & Row
10 E. 53rd Street
New York, NY 10022
USA

Hemisphere Publishing Corp.
79 Madison Avenue
New York, NY 10016
USA

Information Publications (FTE), Ltd.
02-06, 1st Floor Fei Fu Bldg.
24 New Indust. Road/Upper Paya L. bar Rd.
Singapore
Singapore

Intercontinental Publications, Inc.
Dept. DM 483
15 Ketchum Street
P.O. Box 5017
Westport, CT 06881
USA

Intermediate Technology Publications
9 King Street
London WC2E BHN
UK

International Publications Service
114 E. 32nd Street
New York, NY 10016
USA

International Specialized Book Services
P.O. Box 1632
Beaverton, OR 97075
USA

IPC Science and Technology Press
32 High Street
Guildford, Surrey GU1 3EW
UK

JG Press
P.O. Box 351
Emmaus, PA 18049
USA

John Muir
Box 613
Santa Fe, NM 87504
USA

John Wiley & Sons, Inc.
605 Third Avenue
New York, NY 10158
USA

Johns Hopkins University Press
701 W. 40th Street, # 275
Baltimore, MD 21211
USA

Kluwer Academic Publications
190 Old Derby Street
Hingham, MA 02043
USA

Lexington Books
D.C. Heath & Co.
125 Spring Street
Lexington, MA 02173
USA

Longman House
Burnt Mill
Harlow, Essex
UK

Lorien House
P.O. Box 1112
Black Mountain, NC 28711
USA

Macmillan Publishing Co., Ltd.
200D Brown Street
Riverside, NJ 80370
USA

MAGSUE Ltd.
Oakfield House
35 Ferrymount Rd.
Haywards Heath, West Essex RH16 3DH
UK

Marathon International Publishing Co.
P.O. Box 33008
Louisville, KY 40232
USA

McGraw-Hill Publications Co.
1221 Avenue of the Americas
New York, NY 10020
USA

Miller Freeman Publications
500 Howard Street
San Francisco, CA 94105
USA

MIT Press
28 Carleton Street
Cambridge, MA 02142
USA

National Academy Press
2101 Constitution Avenue
Washington, D.C. 20418
USA

Neal-Schuman Publishers
23 Cornelia Street
New York, NY 10014
USA

Noyes Data Corp.
Mill Road and Grand Avenue
Park Ridge, NJ 07656
USA

Pergamon Press
Maxwell House, Fairview Park
Elmsford, NY 10523
USA

Pergamon Press Australia Ltd.
P.O. Box 544
Potts Point N.S.W. 2011
USA

Pertamina Bulletin
Pertamina Public Relations
Annex Building, 4th Floor
Jl. Merdeka Timur 1 (P.O. Box 12)
Jakarta
Indonesia

Petroleum Economist
5 Pemberton Row
Fleet Street
London EC4A 3DF
UK

Petroleum Publishing Company
211 S. Cheyenne
Tulsa, OK 74102
USA

Petromin Publishing Co., (Asia) PTE Ltd.
S. Widjojo Centre
9th Floor, Jalan Jendral Sudirman 57
Jakarta Pusat
Indonesia

Plenum Press
Plenum Publishing Corp.
227 W. 17th Street
New York, NY 10011
USA

Plenum Publishing Company, Ltd.
88/90 Middlesex Street
London E1 7EZ
UK

Prentice-Hall, Inc.
P.O. Box 500
Englewood Cliffs, NJ 07632
USA

Public Utilities Reports, Inc.
Rosslyn Center Bldg., Suite 2100
Arlington, VA 22308
USA

116

Publishing Horizons Inc.
P.O. Box 02190
Columbus, OH 43202
USA

Rodale Press
35 E. Minor Street
Emmaus, PA 18049
USA

RPI/KROLL Publications, Inc.
733 Third Avenue, Suite 901
New York, NY 10017
USA

Running Press
125 S. 22nd Street
Philadelphia, PA
USA

Solar Energy Information Services
4409 I Street
Sacramento, CA 95815
USA

Solpub Co.
16311 Heatherdale Drive
Houston, TX 77059
USA

Southern Illinois University Press
P.O. Box 3697
Carbondale, IL 62901
USA

Springer-Verlag
175 Fifth Avenue
New York, NY 10010
USA

Sterling Publishing Co., Inc.
2 Park Avenue
New York, NY 10016
USA

TAB Books
Blue Ridge Summit, PA 17214
USA

Technical Insights,, Inc.
158 Linwood Plaza
P.O. Box 1304
Fort Lee, NJ 07024
USA

Theodore Audel & Co.
Div. of Howard W. Sams & Co., Inc.
4300 West 62nd Street
Indianapolis, IN 46268
USA

Tycooly International Publishing Ltd.
6 Crofton Terrace
Dun Laoghaire, Co. Dublin, Ireland
UK

U.K. Her Majesty's Stationery Office
Section PMIC
Atlantic House, Holborn Viaduct
London EC1P 1BN
UK

U.K. International Book Distributors, Ltd.
66 Wood Land End
Hemel Hemstead
Herts HP2 4RG
UK

Unipub
345 Park Avenue South
New York, NY 10010
USA

110

University of Michigan Press
Box 1104
839 Greene Street
Ann Arbor, MI
USA

UPDATA Publications, Inc.
1746 Westwood Boulevard
Los Angeles, CA 90024
USA

Van Nostrand Reinhold Co., Inc.
135 W. 50th Street
New York, NY 10020
USA

Vermont Crossroads Press
Box 333
Wainsfield, VT 05673
USA

W. H. Freeman
41 Madison Avenue
New York, NY 10010
USA

Walker-Davis Publications, Inc.
2500 Office Center
Willow Grove, PA 19090
USA

Water Resources Publications
P.O. Box 2841
Littleton, CO 80161
USA

Westview Press, Inc.
5500 Central Ave.
Boulder, CO 80301
USA

Windbooks
P.O. Box 14
Rockville Centre, NY 11571
USA

1109

Section 2. PERIODICALS

This section contains 109 citations to renewable energy related periodicals. They were selected from 1,114 citations that include "energy" as a descriptor.

The citations were selected, via the DIALOG online retrieval service, from Ulrich's Periodicals Directory (copyright by R.R. Bowker, 1984).

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A **DIALOG** SEARCH
FROM THE
ULRICH'S INTL PERIODICALS DIRECTORY

SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

For: _____
Address: _____

PC 0003426 (IR)
TI British Columbia Mountaineer
ED Ed. M.C. Feller
PU Publisher: British Columbia Mountaineering Club
AD Box 2674 Vancouver, B.C. V6B 3W8 Canada
ST PY Status: Active 1917
FQ CI Frequency: irreg Circ. 500 Price: Can.\$3
GL Canada (CN)
SN ISSN: 0045-2998
CA Dewey Decimal No.: 796.522
SF Special features: Book Reviews
AV No free copying (NC); Photocopies not provided (N\$);
No free use of abstracts to abstracting services (NCA)
DE DC Subject Headings: SPORTS AND GAMES OUTDOOR LIFE
(00002562)
(Copyright by R.R. Bowker, 1984)

If you have any questions, please call:

Telephone: _____

Topic of search: _____

Searcher: _____

Date: _____

The attached report is the result of a search of the ULRICH'S INTERNATIONAL PERIODICALS DIRECTORY database using the DIALOG Information Retrieval Service.

ULRICH'S INTERNATIONAL PERIODICALS DIRECTORY is the equivalent to the Serials Bibliography Database produced by the R.R. Bowker Company, and is a unique, current, comprehensive, and continuously updated source of information on selected periodicals and serials published in the United States and throughout the world. Annuals, continuations, and conference proceedings are included, as well as approximately 12,775 ceased titles dating from 1977. The database provides full buying and ordering information on the major output of the international serials publishing industry. The data is derived from information received from over 65,000 serials publishers worldwide, as well as from Library of Congress - New Serial Titles. The database is multidisciplinary in scope. Subject information for all documents is provided through Dewey Decimal Classification Number, Abstracting and Indexing Service codes, and some 375 internal subject headings, as well as analytics.

Key to Data Fields

AD	Publisher Address	GL	Geographic Location
AI	Abstracting/Indexing Service Code	ID	Identifier
AV	Availability	PC	Publication Code
CA	Dewey Decimal Classif #	PU	Publisher
CI	Circulation	PY	First Year of Publication
DC	Descriptor Code	SF	Special Feature
DE	Descriptor	SI	Special Index
DT	Document Type	SN	International Standard Classification Code (ISSN)
ED	Editor	ST	Status
FQ	Frequency	T!	Title

Data present in record depends on output format requested and type of record.

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

0131633 (UI)

Renewable Energy Economics Digest

Publisher: Multi-Science Publishing Co. Ltd.
42-45 New Broad St., London EC2M 1QY, England
Status: Active 1986

Frequency: 4 per yr Price: E58 (US.\$98)

United Kingdom (UK)

Dewey Decimal No.: 531.64

Subject Headings: ENERGY (00003773)

0131623 (UI)

New Devices & Materials in Renewable Energy

Publisher: Multi-Science Publishing Co. Ltd.
42-45 New Broad St., London EC2M 1QY, England
Status: Active 1986

Frequency: 4 per yr Price: E58 (US.\$98)

United Kingdom (UK)

Dewey Decimal No.: 531.64

Subject Headings: ENERGY (00003773)

0131008 (UI)

Renewable Energy Review Journal

Ed. H.A. Vespry

Publisher: Renewable Energy Resources Information Center

Asian Institute of Technology, G.P.O. Box 2754, Bangkok
10501, Thailand

Status: Active 1979

Frequency: Semiannual Circ. 600

Thailand (TH)

ISSN: 0125-3719

Dewey Decimal No.: 531.64

back issues avail.. Text in English

Special Features: Advertising, Book Reviews

Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)

Subject Headings: ENERGY (00003773)

0130988 (IR)

A I T Reports and Publications on Renewable Energy Resources. Abstracts

Ed. H.A. Vespry

Publisher: Asian Institute of Technology; Renewable Energy
Resources Information Center

G.P.O. Box 2754, Bangkok 10501, Thailand

Status: Active 1979

Frequency: Annual Circ. 600

Thailand (TH)

Dewey Decimal No.: 531.64

back issues avail.. Text in English

Special Features: Pu. cum.index. Advertising

Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)

Subject Headings: ENERGY (00003773)

0130560 (UI)

Abstracts on Science and Technology in Japan: Renewable Energy

Publisher: Japan Information Center of Science and
Technology; (Nihon Kagaku Gijutsu-Joho Senta)

5-2, Nagata-cho, 2-Chome, Chiyoda-Ku, Tokyo 100, Japan

Status: Active 1981

Frequency: Quarterly Circ. 1,000 Price: 14,000 Yen

Japan (JA)

ISSN: 0287-5012

Dewey Decimal No.: 531.64

Text in English

Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)

Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES,
STATISTICS (00004492)

0126721 (UI; ST)

Renewable Energy Alerting Database Service

Short title: R E A D S

Ed. Peter Winter

Publisher: Biomass Energy Institute Inc.

1329 Niakwa Rd., Winnipeg, Manitoba R2J 3T4, Canada

Status: Active 1984

Frequency: Monthly Circ. 1,000 Price: Can.\$125 (US.\$100)

Canada (CN)

ISSN: 0827-4061

Dewey Decimal No.: 531.64

back issues avail.

Special Features: Advertising, Book Reviews

Subject Headings: ENERGY (00003773); ENVIRONMENTAL STUDIES
(00000139)

0115042 (IR; ST)

R E News; renewable energy R & D

Ed. J.K. Linacre

Publisher: Energy Technology Support Unit; Gt. Brit.

Bldg. 156, AERE Harwell, Didcot, Oxon. OX11 0RA, England

Status: Active 1979

Frequency: irreg Circ. 5,000 Price: free

United Kingdom (UK)

ISSN: 0262-2556

Dewey Decimal No.: 531.6

Special Features: illus

Abstracting and Indexing Services: Fluidex

Free copying permitted (FC); No free use of abstracts to
abstracting services (NCA)

Subject Headings: ENERGY (00003773)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

0112193 (IR; ST)
International Directory of New and Renewable Energy;
information sources and research centres
Publisher: Unesco
7-9 Place de Fontenoy, 75700 Paris, France
Status: Active 1982
Frequency: irreg.
United Nations and related organizations (UN)
Dewey Decimal No.: 531.64
United Nations publication
Subject Headings: ENERGY (00003773)

0102442 (UI; ST)
C R R E R I S Renewable Energy Index
Formerly: Commonwealth Regional Renewable Energy Resources
Index: ISSN 0159-6845; Supersedes: Australian Renewable Energy
Resources Index: ISSN 0155-9443
Publisher: C.S.I.R.O.; Editorial and Publications Service
314 Albert St., East Melbourne, Victoria 3002, Australia
Status: Active 1981
Frequency: Quarterly Circ. 800 Microfiche Price: Aus.\$20
Australia (AT)
ISSN: 0816-1070
Dewey Decimal No.: 531.64; 639.9; 016
back issues avail.
Special Features: Index
Registered Copyright ClearanceCenter (ccc); No free copying
(NC); Photocopies not provided (N\$); No free use of abstracts
to abstracting services (NCA)
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES,
STATISTICS (00004492); ABSTRACTING AND INDEXING SERVICES
(00000012)

0068802 (UI; ST)
Renewable Energy News
Formerly (until Feb. 1982): Canadian Renewable Energy News:
ISSN 0705-3932
Ed. Wendy L. Peters
Publisher: C R E N Publishing Ltd.
Box 650, Ogdensburg, NY 13669, Tel. 613-238-5591
Status: Unverified 1977
Frequency: Monthly Circ. 16,000 Tabloid Price: Can.\$28
United States (US)
Dewey Decimal No : 531.64
Special Features: illus. Advertising. Book Reviews
Abstracting and Indexing Services: Alt.Press Ind.
Free copying permitted (FC); Free use of abstracts to
abstracting services (FCA); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0067026 (UI; TI)
Renewable Energy News: Northeast; the magazine of energy,
community, and self-reliance
Incorporating (1979-1983): New Roots; for the Northeast:

ISSN 0195-7600: Regional edition of: Renewable Energy News
Ed. Michael Gery
Sponsor: Solar Vision, Inc.; Publisher: 7 Church Hill
Harrisville, NH 03450
Status: Active 1979
Frequency: 6 per yr Circ. 40,000 Price: US:\$8 to
Individuals; institutions \$22
United States (US)
Dewey Decimal No.: 051
Special Features: Advertising. Book Reviews
Abstracting and Indexing Services: Alt.Press Ind
Subject Headings: GENERAL INTEREST PERIODICALS-UNITED STATES
(00003487); CONSERVATION (00000863)

0049407 (UI; ST)
Renewable Energy Bulletin
Publisher: Multi-Science Publishing Co. Ltd.
42-45 New Broad St., London EC2M 1QY, England
Status: Active 1974
Frequency: Bimonthly Price: E120 (US-\$214)
United Kingdom (UK)
ISSN: 0306-364X
Dewey Decimal No.: 628
Special Features: ionsPublisher: . Index
Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)
Subject Headings: ENVIRONMENTAL STUDIES (00000139)

DIALOG File 480: ULRICH'S PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

0133321 (IR)

Annual Book of A S T M Standards. Volume 12.02. Nuclear (2), Solar, and Geothermal Energy**Supersedes in part: Annual Book of A S T M Standards. Part 45. Nuclear Standards**Publisher: American Society for Testing and Materials
1916 Race St., Philadelphia, PA 19103, Tel. 215-299-5400

Status: Active 1986

Frequency: Annual Price: US.\$64 to non-members; members \$57.60

United States (US)

Dewey Decimal No.: 620; 531.6

Subject Headings: ENGINEERING- ENGINEERING MECHANICS AND MATERIALS (00001119); ENERGY (00003773)

0133031 (UI)

Solar Thermal Energy Technology; a current awareness bulletin

Ed. Lila Smith

Publisher: U.S. Department of Energy; Office of Scientific and Technical Information

Box 62, Oak Ridge, TN 37831, Subscr. to: NTIS, Springfield, VA 22161

Status: Active

Frequency: Semimonthly Price: US.\$40

United States (US)

ISSN: 0741-5249

Dewey Decimal No.: 531.64

Subject Headings: ENERGY (00003773)

0133021 (UI)

Energy from Biomass; a current awareness bulletin

Ed. Dorothy M. Chertok

Publisher: U.S. Department of Energy; Office of Scientific and Technical Information

Box 62, Oak Ridge, TN 37831, Subscr. to: NTIS, Springfield, VA 22161

Status: Active

Frequency: Semimonthly Price: US.\$40

United States (US)

ISSN: 8755-0245

Dewey Decimal No.: 531.64

Subject Headings: ENERGY (00003773)

0131628 (UI)

Solar Business Bulletin

Publisher: Multi-Science Publishing Co. Ltd.

42-45 New Broad St., London EC2M 10Y, England

Status: Active 1986

Frequency: 4 per yr Price: E58 (US.\$98)

United Kingdom (UK)

Dewey Decimal No.: 531.64

Subject Headings: ENERGY (00003773)

0130153 (IR; ST)

Solar Energy Index

Ed. Geroge Machovec

Sponsor: Arizona State University; Publisher: Pergamon Press
Maxwell House, Fairview Park, Elmsford, NY 10523, Tel.

914-592-7700

Status: Active 1980

Frequency: biennial

United States (US)

Dewey Decimal No.: 621

Copies provided for fee (C\$); Registered Copyright
ClearanceCenter (ccc)

Subject Headings: ENERGY (00003773)

0129083 (UI; ST)

Solar and Wind Technology

Ed. A. Sayiagh

Publisher: Pergamon Press, Inc.; Journals Division
Maxwell House, Fairview Park, Elmsford, NY 10523, And
Headington Hill Hall, Oxford OX3 0BW, England, Tel.

914-592-7700

Status: Active 1985

Frequency: Quarterly Price: US.\$110

United States (US)

ISSN: 0741-982X

Dewey Decimal No.: 621

Special Features: Advertising

Abstracting and Indexing Services: Curr.Cont

Copies provided for fee (C\$); Registered Copyright
ClearanceCenter (ccc); Free use of abstracts to abstracting
services (FCA); No free copying (NC)

Subject Headings: ENERGY (00003773)

0127331 (UI; ST)

Wind-Energie

Ed. Walter Schonball

Publisher: Wind-Energie; Sekretariat

Gielsdorfer Str. 16, 5300 Bonn, W. Germany (B.R.D.)

Status: Active 1976

Frequency: Bimonthly Circ. 1,200 Price: DM.25 (US.\$10)

Germany, West BRD (GW)

ISSN: 0720-3926

Dewey Decimal No.: 531.64

Special Features: Advertising, Book Reviews

Subject Headings: ENERGY (00003773)

0126857 (UI; ST)

A W E A Wind Energy Weekly

Formerly: A W E A Update

Ed. Thomas O. Gray

Publisher: American Wind Energy Association

1516 King St., Alexandria, VA 22314, Tel. 703-684-5196

(cont. next page)

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DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

Status: Active 1982
 Frequency: Weekly Circ. 400 Price: US.\$125
 United States (US)
 ISSN: 0747-5500
 Dewey Decimal No.: 531.64
 back issues avail.
 Special Features: Formerly: A W E . index
 Copies provided for fee (C\$); Free use of abstracts to
 abstracting services (FCA); No free copying (NC)
 Subject Headings: ENERGY (00003773)

0123971 (UI; MB; ST)
 Trade Association for the British Biomass Industries. The
 Digest
 Ed. J. Coombs
 Sponsor: Trade Association for the British Biomass
 Industries; Publisher: B A B A Ltd.
 P.O. Box 7, Southend Reading RG7 6AZ, England
 Status: Active
 Frequency: Quarterly Circ. 300 Price: E20
 United Kingdom (UK)
 Dewey Decimal No.: 531.64; 574
 Free copying permitted (FC); Copies provided for fee (C\$);
 Free use of abstracts to abstracting services (FCA)
 Subject Headings: ENERGY (00003773); BIOLOGY (0000036X);
 ENGINEERING (00001089)

0123538 (UI; ST)
 Wind Energy Report; the international newsletter of wind
 power
 Ed. Farrell Smith Seiler
 Publisher: WindBooks
 Box 3870, Bozeman, MT 59772-3870
 Status: Active 1978
 Frequency: Semimonthly Circ. 2,300 Looseleaf Price:US.\$145
 United States (US)
 ISSN: 0162-8623
 Dewey Decimal No.: 620
 back issues avail.
 Special Features: Advertising. Book Reviews
 Copies provided for fee (C\$); No free copying (NC); No free
 use of abstracts to abstracting services (NCA)
 Subject Headings: ENERGY (00003773); BUSINESS AND ECONOMICS-
 PUBLIC FINANCE, TAXATION (00000978); METEOROLOGY (00000231)

0123537 (UI; ST)
 Wind Energy Abstracts; the international wind power
 abstracts journal
 Ed. Farrell Smith Seiler
 Publisher: WindBooks
 Box 3870, Bozeman, MT 59772-3870
 Status: Active 1983
 Frequency: Monthly Circ. 1,250 Looseleaf Price: US.\$175
 United States (US)

ISSN: 0277-2140
 Dewey Decimal No.: 620
 back issues avail.
 Special Features: Book Reviews
 Copies provided for fee (C\$); No free copying (NC); No free
 use of abstracts to abstracting services (NCA)
 Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES,
 STATISTICS (00004492); ENERGY (00003773)

0122022 (IR; ST)
 Solar Engineering
 Ed. W.D. Turner
 Publisher: American Society of Mechanical Engineers; Solar
 Energy Division
 345 E. 47th St., New York, NY 10017
 Status: Active
 Frequency: Annual
 United States (US)
 Dewey Decimal No.: 621.47
 Subject Headings: ENERGY (00003773)

0118933 (UI; ST)
 Solar Flashes
 Ed. Carol Rooney
 Publisher: San Luis Valley Solar Energy Association
 512 Ross Ave., Alamosa, CO 81101, Tel. 303-589-2233
 Status: Active 1978
 Frequency: Quarterly Circ. 500 Tabloid Price: US.\$15 :
 United States (US)
 Dewey Decimal No.: 621.47
 back issues avail.
 Special Features: Tab. index
 Copies provided for fee (C\$); Free use of abstracts to
 abstracting services (FCA); No free copying (NC)
 Subject Headings: ENERGY (00003773)

0118684 (UI; ST)
 Wisconsin Solar News
 Ed. Mickel Ducey
 Publisher: Solar Energy Resource Association
 1121 University Ave., Madison, WI 53715
 Status: Active
 Frequency: 6 per yr.
 United States (US)
 Dewey Decimal No.: 621.47
 Subject Headings: ENERGY (00003773)

0118674 (UI; ST)
 Solar Times
 3 Old Post Rd., Madison, CT 06443, Tel. 203-245-9680
 Status: Active

(cont. next page)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- Frequency: 12 per yr. Tabloid Price: US.\$12.50
United States (US)
Dewey Decimal No.: 621.47
Special Features: Advertising
Subject Headings: ENERGY (00003773)
- 0118672 (UI; ST)
Solar Ocean Energy Liason
Ed. Richard A. Meyer
Publisher: Popular Products, Inc.
1303 S. Michigan Ave., Chicago, IL 60605, Tel. 312-427-3000
Status: Unverified
Frequency: 12 per yr. Price: US.\$125
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0117728 (UI; ST)
Wind Power Digest
Ed. Tracey Hunker
Sponsor: Solar Usage Now, Inc.; Publisher: Wind Power
Publishing
Box 700, Bascom, OH 44809, Tel. 419-937-2299
Status: Active 1975
Frequency: Quarterly Circ. 10,000 Price: US.\$12
United States (US)
ISSN: 0275-4657
Dewey Decimal No.: 531.64
back issues avail.
Special Features: charts. illus. patents. tr.lit..
Advertising. Book Reviews
Abstracting and Indexing Services: Fluidex
Copies provided for fee (C\$); No free copying (NC); No free
use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY (00003773)
- 0117720 (UI, ST)
Solar Beat
Ed. Louis Gorenflo
Box 526, R.R.6, Crossville, TN 38555
Status: Active
Frequency: 12 per yr. Price: US.\$5
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0117713 (UI; ST)
Geothermal Report
Ed. Maria C. Smith
Box 35-K, Tracey's Landing, MD 20779
Status: Active 1971
Frequency: 24 per yr. Price: US.\$155
United States (US)
- Dewey Decimal No.: 531.64; 551
Special Features: Book Reviews
No free copying (NC); Photocopies not provided (N\$); No free
use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY (00003773); EARTH SCIENCES-GEOLOGY
(00000917)
- 0117710 (UI; ST)
Geothermal Hotline
Ed. Susan F. Hodgson
Publisher: Division of Oil and Gas; California
1416 Ninth St., Sacramento, CA 95814
Status: Active 1972
Frequency: 2 per yr. Circ. 1,000 Price: free
United States (US)
Dewey Decimal No.: 531.64; 551
Special Features: bibl. Book Reviews
Free copying permitted (FC); Free use of abstracts to
abstracting services (FCA); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773); EARTH SCIENCES-GEOLOGY
(00000917)
- 0116805 (UI; ST)
Solar und Waermepumpen Info-Dienst
Publisher: Verlag C.F. Mueller
Rheinstrasse 122, D-7500 Karlsruhe 21, W. Germany (B.R.D.)
Status: Unverified
Frequency: Biweekly Price: DM.240
Germany, West BRD (GW)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0115869 (IR; ST)
Solar Bibliography
Publisher: U.S. Department of Housing and Urban Development
Office of Policy Development and Research
451 Seventh St., S.W., Washington, DC 20410, Orders to:
Supt. of Documents, Washington, DC 20402
Status: Active 1976
Frequency: irreg
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES,
STATISTICS (00004492); BIBLIOGRAPHIES (00000322)
- 0115328 (IR; ST)
Australasian Solar Index and Buyers Guide
Publisher: Australian Syndicators Pty Ltd.
Box 45, South Yarra, Vic. 3141, Australia
Status: Active 1979
Frequency: Annual Price: Aus.\$25
(cont. next page)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- Australia (AT)
Dewey Decimal No.: 531.64; 380.1
Subject Headings: ENERGY (00003773); BUSINESS AND ECONOMICS-TRADE AND INDUSTRIAL DIRECTORIES (00000589)
- 0114557 (UI)
Solar Energy
Parallel Title: Taiyangneng
Publisher: Guoji Shudian (China Publications Centre)
Chegongzhuang Xilu 21, P.O. Box 339, Beijing, Peoples Republic of China
Status: Active
Frequency: Quarterly Price: US.\$0.40 per no.
China, Mainland (CC)
Dewey Decimal No.: 621.47
Text in Chinese
Abstracting and Indexing Services: Biol.Abstr.; Int.Aerosp.Abstr.
Subject Headings: ENERGY (00003773)
- 0114286 (UI)
Acta Engergiae Solaris Sinica
Parallel Title: Taiyangneng Xuebao
Publisher: Guoji Shudian (China Publications Centre)
Chegongzhuang Xilu 21, P.O. Box 339, Beijing, Peoples Republic of China
Status: Active
Frequency: Quarterly Price: US.\$6.30 per no.
China, Mainland (CC)
Dewey Decimal No.: 621.47
Text in Chinese
Abstracting and Indexing Services: Chem.Abstr
Subject Headings: ENERGY (00003773)
- 0113649 (IR; ST)
Solar Energy Research and Development in the European Community. Series H. Solar Energy in Agriculture and Industry
Sponsor: Commission of the European Communities; Directorate-General Information Marketing and Innovation; (EI); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby St., Hingham, MA 02043
Status: Active
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)
- 0113644 (IR; ST)
Solar Energy Research and Development in the European Community. Series G. Wind Energy
Sponsor: Commission of the European Communities; Directorate-General Information Marketing and Innovation; (EI); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby St., Hingham, MA 02043
Status: Active 1983
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0113643 (IR; ST)
Solar Energy Research and Development in the European Community. Series F. Solar Radiation Data
Sponsor: Commission of the European Communities; Directorate-General Information Marketing and Innovation; (EI); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby St., Hingham, MA 02043
Status: Active 1982
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)
- 0113642 (IR; ST)
Solar Energy Research and Development in the European Community. Series E. Energy from Biomass
Sponsor: Commission of the European Communities; Directorate-General Information Marketing and Innovation; (EI); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby St., Hingham, MA 02043
Status: Active 1981
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)
- 0113641 (IR; ST)
Solar Energy Research and Development in the European Community. Series D. Photochemical, Photoelectrochemical and Photobiological Processes
Sponsor: Commission of the European Communities; Directorate-General Information Marketing and Innovation; (EI (cont. next page)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby
St., Hingham, MA 02043
Status: Active 1982
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Abstracting and Indexing Services: Chem.Abstr
Free use of abstracts to abstracting services (FCA); No free
copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0113640 (IR; ST)
Solar Energy Research and Development in the European
Community. Series C. Photovoltaic Power Generation
Sponsor: Commission of the European Communities;
Directorate-General Information Marketing and Innovation; (EI
); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby
St., Hingham, MA 02043
Status: Active 1982
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free
copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0113639 (IR; ST)
Solar Energy Research and Development in the European
Community. Series B: Thermo-Mechanical Solar Power Plants
Sponsor: Commission of the European Communities;
Directorate-General Information Marketing and Innovation; (EI
); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby
St., Hingham, MA 02043
Status: Active 1983
Frequency: irreg Price: price varies
Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free
copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0113638 (IR; ST)
Solar Energy Research and Development in the European
Community. Series A. Solar Energy Applications to Dwellings
Sponsor: Commission of the European Communities;
Directorate-General Information Marketing and Innovation; (EI
); Publisher: D. Reidel Publishing Co.
Box 17, 3300 AA Dordrecht, Netherlands, And 190 Old Derby
St., Hingham, MA 02043
Status: Active 1982
Frequency: irreg Price: price varies

Netherlands (NE)
Dewey Decimal No.: 621.47
Free use of abstracts to abstracting services (FCA); No free
copying (NC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0112433 (IR)
Seminar on Biomass for City, Farm and Industry. Proceedings
Ed. Jerome Goldstein
Publisher: J G Press
Box 351, Emmaus, PA 18049
Status: Ceased ceased
Frequency: Annual Price: US.\$50
United States (US)
Dewey Decimal No.: 521.64
Subject Headings: ENERGY (00003773)

0109359 (UI; ST)
International Journal of Solar Energy
Ed. W. Palz
Publisher: Harwood Academic Publishers
50 W. 23rd St., New York, NY 10010, Tel. 212-206-8900
Status: Active 1982
Frequency: 6 per yr Price: US.\$132 to individuals; academic
price \$106
United States (US)
ISSN: 0142-5919
Dewey Decimal No.: 621.47
Special Features: abstr.
Abstracting and Indexing Services: Chem.Abstr.; Sci.Abstr.;
Int.Aerosp.Abstr.
Subject Headings: ENERGY (00003773)

0109336 (UI; ST)
Geothermal World Journal
Ed. Edward F. Wehlage
Publisher: International Society for Geothermal Engineering,
Inc.
Drawer 4743, Whittier, CA 90607-4743
Status: Active 1974
Frequency: Quarterly Price: membership
United States (US)
Dewey Decimal No.: 551.9; 531.64
Text in English and Spanish
Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)
Subject Headings: EARTH SCIENCES-GEOLOGY (00000917); ENERGY
(00003773)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

0109330 (IR; ST)

Advances in Solar Energy. An Annual Review of Research and Development

Eds. K.W. Boer, J. Duffie
 Publisher: American Solar Energy Society
 c/o Rebecca Vories, 2030 17th St., Boulder, CO 80302-5404
 Status: Active 1982
 Frequency: Annual Price: US.\$95
 United States (US)
 ISSN: 0731-8618
 Dewey Decimal No.: 621.47
 Abstracting and Indexing Services: Biol.Abstr.
 Copies provided for fee (C\$); Registered Copyright
 ClearanceCenter (ccc); Free use of abstracts to abstracting
 services (FCA); No free copying (NC)
 Subject Headings: ENERGY (00003773)

0109329 (IR; ST)

American Solar Energy Society. Research Reports
 Publisher: American Solar Energy Society
 c/o Rebecca Vories., 1230 Grandview Ave., Boulder, CO 80302
 Status: Unverified
 Frequency: irreg.
 United States (US)
 Dewey Decimal No.: 621.47
 Abstracting and Indexing Services: Eng.Ind.; Energy
 Info.Abstr.
 Subject Headings: ENERGY (00003773)

0109328 (UI; ST)

Passive Solar Journal: Heating, Cooling, Hybrid Technologies and Strategies for Sustainable Design
 Ed. Jeffrey Cook
 Publisher: American Solar Energy Society
 c/o Rebecca Vories, 1230 Grandview Ave., Boulder, CO 80302
 Status: Ceased 1982-1983
 Frequency: Quarterly Price: US.\$90
 United States (US)
 ISSN: 0277-6456
 Dewey Decimal No.: 621.47
 Special Features: Book Reviews
 Abstracting and Indexing Services: Eng.Ind.; Energy
 Info.Abstr.
 Subject Headings: ENERGY (00003773)

0109327 (IR; ST)

Progress in Passive Solar Energy Systems
 Incorporates and continues numbering of: National Passive
 Solar Conference. Proceedings.: ISSN 0161-7443
 Ed. John W. Hayes
 Publisher: American Solar Energy Society
 c/o Rebecca Vories, 2030 17th St., Boulder, CO 80302-5404
 Status: Active vol.7, 1982
 Frequency: Annual

United States (US)

ISSN: 0731-8626
 Dewey Decimal No.: 621.47
 Abstracting and Indexing Services: Eng.Ind.; Energy
 Info.Abstr.
 Copies provided for fee (C\$); Registered Copyright
 ClearanceCenter (ccc); Free use of abstracts to abstracting
 services (FCA); No free copying (NC)
 Subject Headings: ENERGY (00003773)

0109077 (UI; ST)

Photovoltaics; the solar electric magazine
 Ed. Jo'iene Ralston
 Publisher: Fore Publishers, Inc.
 Box 3269, Scottsdale, AZ 85257, Tel. 602-994-1923
 Status: Active 1982
 Frequency: Monthly Circ. 9,000 Price: US.\$24
 United States (US)
 ISSN: 0732-4375
 Dewey Decimal No.: 621.47
 Special Features: index. Advertising. Book Reviews
 Copies provided for fee (C\$); No free copying (NC); No free
 use of abstracts to abstracting services (NCA)
 Subject Headings: ENERGY (00003773)

0108570 (UI; ST)

Soft Solar Notes; newsletter of the Passive Solar Foundation
 Ed. Ken Bossong
 Publisher: Citizen's Energy Project
 1110 Sixth St., N.W., Washington, DC 20001, Tel.
 202-289-4999
 Status: Ceased 1979-1985 (vol.4)
 Frequency: Quarterly Circ. 500 Price: US.\$15
 United States (US)
 Dewey Decimal No.: 621.47
 Special Features: illus. Book Reviews
 Free copying permitted (FC); Copies provided for fee (C\$);
 Free use of abstracts to abstracting services (FCA)
 Subject Headings: ENERGY (00003773)

0107812 (IR)

Directory of Solar Energy Research Activities in the United States
 Publisher: Solar Energy Research Institute
 1617 Cole Blvd., Golden, CO 80401. Subcr. to: Superintendent
 of Documents, Washington, DC 20402
 Status: Ceased 1980-19??
 Frequency: Annual
 United States (US)
 Dewey Decimal No.: 621.47
 Subject Headings: ENERGY (00003773)

2-10

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- 0107382 (UI; ST; LB)
Pat-Ab: U S Patent Abstracts & Background, Solar Thermal Energy
Eds. George L. Black, Mary L. Black
Publisher: Synergism, Inc.
Box 417, Locust Grove, VA 22508, Tel. 703-920-3521
Status: Ceased 1980-1984 (Nov./Dec.)
Frequency: Bimonthly Price: US.\$200
United States (US)
ISSN: 0270-7454
Dewey Decimal No.: 608.7
Copies provided for fee (C\$); No free copying (NC)
Subject Headings: PATENTS, TRADEMARKS AND COPYRIGHTS-ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (0000506X); ENERGY (00003773)
- 0107129 (UI; ST)
Solar Express
Publisher: Western Solar Utilization Network
Pioneer Park Building, Suite 800, 715 S.W. Morrison, Portland, OR 97205, Tel. 503-221-2437
Status: Unverified
Frequency: m?
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0105937 (UI; IR; ST)
Solar Energy Utilization: a Bibliography. Vol 4. Solar Photovoltaics
Publisher: University of New Mexico; Technology Application Center
Albuquerque, NM 87131, Tel. 505-277-3622
Status: Ceased 1981-1982
Frequency: Quarterly Price: US.\$125
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004492); ABSTRACTING AND INDEXING SERVICES (00000012)
- 0105121 (UI; ST)
Biomass
Eds. J. Coombs, D.O. Hall
Publisher: Elsevier Applied Science Publishers Ltd.
Crown House, Linton Rd., Barking, Essex IG11 8JU, England
Status: Active 1981
Frequency: 12 per yr. (4 nos. per vol.) Price: E196 (US.\$265)
United Kingdom (UK)
ISSN: 0144-4565
Dewey Decimal No.: 531.64
back issues avail.
Special features: charts, illus. Advertising. Book Reviews
- Abstracting and Indexing Services: Chem.Abstr.; Curr.Cont.; Excerpt.Med.; Sci.Abstr.; Sci.Cit.Ind.; Agri.Eng.Abstr.; Curr.Adv.Plant Sci.; Forest.Abstr.; World Agri.Econ.& Rural Sociol.Abstr.
Registered Copyright ClearanceCenter (ccc); Free use of abstracts to abstracting services (FCA); No free copying (NC) Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773); CHEMISTRY (00000632); AGRICULTURE (00000048)
- 0104761 (IR; ST)
Progress in Solar Energy
Supersedes (as of July, 1982): International Solar Energy Society. American Section. Annual Meeting. Proceedings: ISSN 0146-4568
Eds. Gregory E. Franta, Keith W. Haggard
Publisher: American Solar Energy Society
c/o Rebecca Vories, 1230 Grandview Ave., Boulder, CO 80302
Status: Unverified 1976
Frequency: Annual
United States (US)
ISSN: 0731-860X
Dewey Decimal No.: 531.64
Abstracting and Indexing Services: Eng.Ind.; Energy Info.Abstr.
Copies provided for fee (C\$); Registered Copyright ClearanceCenter (ccc); No free copying (NC); No free use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY (00003773)
- 0104564 (IR; ST)
Woodheat-(Year)
Former titles: Woodstove, Wood, Coal and Solar Equipment Directory: ISSN 0744-0820; Woodstove, Coalstove, Fireplace & Equipment Directory: ISSN 0271-5090
Ed. Steven Maviglio
Publisher: Energy Publications
Box 2008, Laconia, NH 03247, Tel. 608-528-4285
Status: Active 1978
Frequency: Annual Circ. 175,000 Price: US.\$6
United States (US)
Dewey Decimal No.: 697
back issues avail.
Special Features: Index. Advertising. Book Reviews
Copies provided for fee (C\$); Free use of abstracts to abstracting services (FCA); No free copying (NC)
Subject Headings: HEATING, PLUMBING AND REFRIGERATION (00001363); ENERGY (00003773)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- 0103145 (IR; ST)
Annual Solar Heating and Cooling Research and Development
Branch Contractors' Meeting. Proceedings
Publisher: U.S. Department of Energy
Washington, DC 20545, Tel. 202-252-5000
Status: Active 3rd, 1979
Frequency: Annual
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0103141 (IR)
Canada. Department of Energy, Mines and Resources. Solar
Heating Catalogue
Ed. Michael Glover
Publisher: Department of Energy, Mines and Resources;
Conservation and Renewable Energy Resources Branch+0; Canada
580 Booth St., Ottawa, Ont. 51A OE4, Canada, Tel.
613-995-3065
Status: Ceased ceased with no. 3, 1983
Frequency: Annual Price: Can.\$2 (US.\$2.40)
Canada (CN)
Dewey Decimal No.: 531.64
Subject Headings: ENERGY (00003773)
- 0102392 (IR; ST)
Solar Energy Research and Development Reports
Publisher: U.S. Department of Energy
Washington, DC 20545, Tel. 202-252-5000
Status: Active
Frequency: irreg.
United States (US)
Dewey Decimal No.: 621.47
Subject Headings: ENERGY (00003773)
- 0101554 (IR; ST)
Wind Energy Workshop. Proceedings
Publisher: U.S. Department of Energy; Division of Solar
Technology
Washington, DC 20545, Order from: Supt. of Documents,
Washington DC 20402, Tel. 202-252-5000
Status: Active 3rd, 1978
Frequency: biennial
United States (US)
Dewey Decimal No.: 531.64
Subject Headings: ENERGY (00003773)
- 0100610 (IR)
Survey of the Emerging Solar Energy Industry
Ed. Francis deWinter
Publisher: Solar Energy Information Services
Box 204, San Mateo, CA 94401
Status: Unverified
- Frequency: Annual Price: US.\$60
United States (US)
Dewey Decimal No.: 530
Subject Headings: ENERGY (00003773); PHYSICS (00002203)
- 0100604 (IR)
Solar Energy Handbook
Publisher: Times Mirror Magazines, Inc.
380 Madison Ave., New York, NY 10017
Status: Ceased 1977-1977
Frequency: Annual Price: US.\$1.50
United States (US)
Dewey Decimal No.: 530
Special Features: Advertising
Subject Headings: ENERGY (00003773); PHYSICS (00002203)
- 0100554 (IR)
Western Regional Solar Energy Directory
Eds. John Brand, Ildiko Demeter
Publisher: California Solar Energy Association
202 C St., 1A, San Diego, CA 92101
Status: Unverified 1976
Frequency: Annual Price: US.\$2.35
United States (US)
Dewey Decimal No.: 530
Free copying permitted (FC); Copies provided for fee (C\$);
Free use of abstracts to abstracting services (FCA)
Subject Headings: ENERGY (00003773); PHYSICS (00002203)
- 0099443 (IR; ST)
International Symposium on Wind Energy Systems. Proceedings
Publisher: B H R A Fluid Engineering
Cranfield, Bedford MK43 OAJ, England, Dist. in U.S. by:
Learned Information Inc., 143 Old Marlton Pike, Medford, NJ
08055
Status: Active 1977
Frequency: irreg., 4th, 1982 Price: price varies
United Kingdom (UK)
Dewey Decimal No.: 621.3
Registered Copyright ClearanceCenter (ccc); Free use of
abstracts to abstracting services (FCA); No free copying (NC)
Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773); ELECTRICITY AND
ELECTRICAL ENGINEERING (00001065)
- 0088625 (IR)
Solar Energy Progress in Australia and New Zealand
Ed. Robert V. Dunkle
Publisher: International Solar Energy Society; Australian
and New Zealand Section
Box 26, Highett, Vic. 3190, Australia
(cont. next page)

2-12

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- Status: Ceased 1962-1977
Frequency: Annual Circ. controlled Price: Aus.\$4 (US.\$6)
Australia (AT)
ISSN: 0584-0651
Dewey Decimal No.: 621.47; 536
Special Features: Book Reviews
International Organization publication
Subject Headings: ENERGY (00003773); ENGINEERING (00001089)
- 0087617 (IR; ST)
Geothermal World Directory
Publisher: Geothermal World Publishers
17304 Village, No. 17, Camarillo, CA 93010-7406
Status: Active 1972
Frequency: Annual Circ. 8,000 Price: US.\$55
United States (US)
ISSN: 0094-9779
Dewey Decimal No.: 551
Special Features: bibl. charts. illus. tr.lit. Advertising.
Book Reviews
Copies provided for fee (C\$); No free copying (NC); No free use of abstracts to abstracting services (NCA)
Subject Headings: EARTH SCIENCES-GEOLOGY (00000917); ENERGY (00003773)
- 0071752 (UI; ST)
Michigan Energy Journal
Formerly: Michigan Solar Energy Association. Bulletin
Ed. Howard Meyerson
Publisher: Michigan Solar Energy Association
432 S. Capitol, Lansing, MI 48933-2003
Status: Unverified 1978
Frequency: Bimonthly Circ. 1,300 Price: US.\$10
United States (US)
Dewey Decimal No.: 621.47
Special Features: Advertising
Free copying permitted (FC); Copies provided for fee (C\$)
Subject Headings: ENERGY (00003773)
- 0071670 (UI; ST)
Wind Industry News Digest
Ed. Donald Marier
Publisher: Alternative Sources of Energy, Inc.
107 S. Central Ave., Milaca, MN 56353, Tel. 612-983-6892
Status: Active 1981
Frequency: 24 per yr Price: US.\$54
United States (US)
ISSN: 0277-9781
Dewey Decimal No.: 531.64
Copies provided for fee (C\$); Registered Copyright ClearanceCenter (ccc); No free copying (NC)
Subject Headings: ENERGY (00003773)
- 0071125 (UI; ST)
Biomass Bulletin
Ed. W.O. Hughes
Publisher: Multi-Science Publishing Co. Ltd.
42-45 New Broad St., London EC2M 1QY, England
Status: Active 1982
Frequency: 4 per yr Price: E70 (US.\$118)
United Kingdom (UK)
Dewey Decimal No.: 531.64
Special Features: K) . index
No free copying (NC); Photocopies not provided (N\$); No free use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY (00003773); PHYSICS (00002203)
- 0071123 (UI; ST)
Wind Engineering Abstracts
Publisher: Multi-Science Publishing Co. Ltd.
42-45 New Broad St., London 4C2M 1QY, England
Status: Active 1982
Frequency: 4 per yr Price: E58 (US.\$98)
United Kingdom (UK)
ISSN: 0263-0915
Dewey Decimal No.: 620; 016
Special Features: K) . index
Copies provided for fee (C\$); Free use of abstracts to abstracting services (FCA); No free copying (NC)
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004492); ABSTRACTING AND INDEXING SERVICES (00000012)
- 0071004 (UI; ST)
Hydrogen Energy: A Bibliography with Abstracts
Publisher: University of New Mexico; Technology Application Center
Albuquerque, NM 87131, Tel. 505-277-3622
Status: Ceased 1973-1982
Frequency: q. updates Price: US.\$110
United States (US)
Dewey Decimal No.: 531.6
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004492)
- 0070906 (UI; ST)
Ground Water Energy Newsletter
Ed. Kevin B. McCray
Sponsor: National Water Well Association; Publisher: Water Well Journal Publishing Co.
500 W. Wilson Bridge Rd., Worthington, OH 43085, Tel. 614-846-4967
Status: Ceased 1982-19?? (vol.3, no.6)
Frequency: 6 per yr Circ. 5,000 Price: US.\$10
United States (US)

(cont. next page)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- ISSN: 0731-0668
Dewey Decimal No.: 551.49; 628.11
Copies provided for fee (C\$); No free copying (NC); No free use of abstracts to abstracting services (NCA)
Subject Headings: EARTH SCIENCES-HYDROLOGY (00000930); ENERGY (00003773)
- 0070359 (UI; ST)
Journal of Solar Energy Engineering
Ed. Frank Kreith
Publisher: American Society of Mechanical Engineers
345 E. 47th St., New York, NY 10017, Tel. 212-705-7703
Status: Active 1980
Frequency: Quarterly Price: US.\$80 to non-members; members \$24
United States (US)
ISSN: 0199-6231
Dewey Decimal No.: 621.47
reprint service avail. from UMI
Abstracting and Indexing Services: A.S.& T.Ind.; Chem.Abstr Curr.Cont.; Sci.Abstr.; Fluidex; PROMT
Subject Headings: ENGINEERING- MECHANICAL ENGINEERING (00001132); ENERGY (00003773)
- 0069988 (UI; ST.)
Solar Thermal Report
Publisher: U.S. Department of Energy; Solar Energy Research Institute
Washington, DC 20545, Tel. 202-252-5000
Status: Unverified
Frequency: Quarterly
United States (US)
Dewey Decimal No.: 531.64; 621.47
Subject Headings: ENERGY (00003773)
- 0069736 (UI; ST)
World Solar Markets; a monthly review of political, financial and technological developments
Ed. Allan L. Frank
Publisher: Business Publishers, Inc.
951 Pershing Dr., Silver Spring, MD 20910, Tel. 301-587-6300
Status: Active 1980
Frequency: Monthly Price: US.\$250
United States (US)
ISSN: 0144-431X
Dewey Decimal No.: 621.47; 600
Abstracting and Indexing Services: Key to Econ.SCI.
Subject Headings: ENERGY (00003773); TECHNOLOGY: COMPREHENSIVE WORKS (00002598)
- 0069470 (UI; ST)
Bioprocessing Technology; a monthly intelligence service Formerly (until 1985): Biomass Digest; ISSN 0163-6766
Ed. Carol Mickel
Publisher: Technical Insights, Inc.
32 N. Dean St., Englewood, NJ 07631, Subscr. to: Box 1304, Fort Lee, NJ 07024, Tel. 201-568-4744
Status: Active 1979
Frequency: Monthly Price: US.\$244
United States (US)
Dewey Decimal No.: 547; 662.6
back issues avail.
Special Features: abstr. bibl. charts. pat. stat. tr.lit
Copies provided for fee (C\$); Registered Copyright ClearanceCenter (ccc); No free copying (NC); No free use of abstracts to abstracting services (NCA)
Subject Headings: CHEMISTRY-ORGANIC CHEMISTRY (0000070X); ENGINEERING-CHEMICAL ENGINEERING (00001090); ENERGY (00003773)
- 0066601 (UI; ST)
Solaria; journal fuer Sonnenenergie, Solararchitektur und Alternativ-Energien
Ed. Pierre Sabady
Publisher: Keller und Co.
Stäpferstrasse 27, 5200 Brugg, Switzerland
Status: Active 1978
Frequency: Bimonthly Price: 15 Fr.
Switzerland (SZ)
Dewey Decimal No.: 531.64
Special Features: illus. Advertising
Subject Headings: ENERGY (00003773)
- 0065731 (UI; SD)
Solar Law Reporter
Sponsor: U.S. Department of Energy; Publisher: Solar Energy Research Institute
1617 Cole Blvd., Golden, CO 80401, Subscr. to: Supt. of Documents, Washington, DC 20402
Status: Ceased 1979-19??
Frequency: Bimonthly Circ. 3,300 Price: US.\$13
United States (US)
ISSN: 0195-1785
Dewey Decimal No.: 621.47; 340
Special Features: Book Reviews
Abstracting and Indexing Services: C.L.I.; P.A.I.S.; C.L.I. Ind.U.S.Gov.Per.; L.R.I.
Free copying permitted (FC); Copies provided for fee (C\$); Free use of abstracts to abstracting services (FCA)
Subject Headings: ENERGY (00003773); LAW (00001636)

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Sowker & Co. 1985)

- 006459: (UI; ST)
Solar Energy Update
Key Title
Publisher: U.S. Department of Energy; Office of Scientific and Technical Information
Box 62, Oak Ridge, TN 37831, Subscr. to: NTIS, Springfield, VA 22161, Tel. 615-576-1155
Status: Active 1976
Frequency: Monthly Price: US.\$75 including annual index United States (US)
ISSN: 0364-6998
Dewey Decimal No.: 531.6
Free copying permitted (FC); Free use of abstracts to abstracting services (FCA); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773); ENGINEERING (00001089)
- 0064553 (UI; ST)
Geothermal Energy Technology
Formerly: Geothermal Energy Update: ISSN 0146-194X
Publisher: U.S. Department of Energy; Office of Scientific and Technical Information
Box 62, Oak Ridge, TN 37831, Subscr. to: NTIS, Springfield, VA 22161, Tel. 615-576-1155
Status: Active 1977
Frequency: Monthly Price: US.\$40 United States (US)
ISSN: 0736-6620
Dewey Decimal No.: 665.5
Free copying permitted (FC); Free use of abstracts to abstracting services (FCA); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)
- 0064210 (IR; ST)
Solar Collector Manufacturing Activity
Formerly: Solar Collector Manufacturing Activity and Applications in the Residential Sector
Publisher: U.S. Energy Information Administration
Forrestal Bldg., Washington, DC 20585, Tel. 202-252-8800
Status: Active
Frequency: Annual Price: US.\$3 United States (US)
ISSN: 0197-2030
Dewey Decimal No.: 621.47; 338
Subject Headings: ENERGY (00003773); HEATING, PLUMBING AND REFRIGERATION (00001363); BUSINESS AND ECONOMICS-PRODUCTION OF GOODS AND SERVICES (00003852)
- 0063522 (UI; ST)
Energia Solare e Fonti Alternative
Formerly: Energia Solare
Publisher: Tecniche Nuove s.r.l.
Via Moscova 46/9a, 20121 Milan, Italy
Status: Ceased ceased
Frequency: Bimonthly Circ. 3,000 Price: L.15000
- Italy (IT)
ISSN: 0392-6044
Dewey Decimal No.: 621.47
Copies provided for fee (C\$); Free use of abstracts to abstracting services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773)
- 0063023 (UI; ST)
Solar Cells; their science, technology, applications and economics
Eds. T.J. Coutts, S. Wagner, L.L. Kazmerski
Publisher: Elsevier Sequoia S.A.
Box 851, CH-1001 Lausanne 1, Switzerland
Status: Active 1979
Frequency: Monthly Price: 750 Fr. (US.\$319.20) Switzerland (SZ)
ISSN: 0379-6787
Dewey Decimal No.: 531.64
Text and summaries in English
Special Features: illus. Advertising. Book Reviews
Abstracting and Indexing Services: Chem.Abstr.; Curr.Cont.; Sci.Abstr.; ASCA; Int.Aerosp.Abstr.; Phys.Ber.
Copies provided for fee (C\$); Free use of abstracts to abstracting services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773)
- 0062811 (UI; ST)
Energie Solaire Actualites
English edition: Solar New International: ISSN 0344-6298
Ed. Pierre Benichou
Publisher: P Y C Edition
254 rue de Vaugirard, 75740 Paris Cedex 15, France
Status: Ceased 1977-19??
Frequency: 18 per yr Price: 980 F. Franca (FR)
ISSN: 0153-226X
Dewey Decimal No.: 531.64
Subject Headings: ENERGY (00003773)
- 0062805 (UI)
Wind Technology Journal
Ed. Herman Drees
Publisher: American Wind Energy Association
Box 5659, Norman, OK 73070
Status: Ceased 1977-1979; resumed 1980?; ceased after vol.3, 1984
Frequency: Quarterly Circ. 800 Price: US.\$30 United States (US)
ISSN: 0163-0741
Dewey Decimal No.: 531.64; 614.7
back issues avail
Special Features: Book Reviews
(cont. next page)

DIALOG File 480: ULRICH'S PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

Abstracting and Indexing Services: Fluidex
Subject Headings: ENERGY (00003773); ENVIRONMENTAL STUDIES
(00000139)

42-45 New Broad St., London EC2M 1QY, England
Status: Active 1977
Frequency: Quarterly Price: E58 (US.\$98)
United Kingdom (UK)
ISSN: 0309-524X
Dewey Decimal No.: 531.64; 621.3
Special Features: abstr
Abstracting and Indexing Services: Sci.Abstr.: Fluidex;
Geo.Abstr.: Int.Aerosp.Abstr.
Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773); ELECTRICITY AND
ELECTRICAL ENGINEERING (00001065)

0062628 (UI; ST)
S.U.N.; (Solar Utilization News)
Ed. Joseph H. Ball
Publisher: Solar Utilization Network
121 Chestnut St., Philadelphia, PA 19106
Status: Active 1974
Frequency: Quarterly Tabloid Price: US.\$175
United States (US)
Dewey Decimal No.: 531.64
Subject Headings: ENERGY (00003773)

0057472 (UI; IR; ST)
Solar Energy Utilization: a Bibliography. Vol. 3. Solar
Thermal Heating and Cooling
Supersedes in part: Solar Thermal Energy Utilization: ISSN
0146-5864
Publisher: University of New Mexico; Technology Application
Center
Albuquerque, NM 87131, Tel. 505-277-3622
Co-sponsor: U.S. National Aeronautics and Space
Administration
Status: Ceased 1977-1982
Frequency: base vol. plus q. updates Price: US.\$125
United States (US)
ISSN: 0160-368X
Dewey Decimal No.: 531.64; 697; 016
back issues avail.
Copies provided for fee (C\$); No free copying (NC); No free
use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES,
STATISTICS (00004492); HEATING, PLUMBING AND REFRIGERATION-
ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004649);
ABSTRACTING AND INDEXING SERVICES (00000012)

0061261 (UI)
Solarscope
Formerly: Southern California Solar Energy Association.
Newsletter
Eds. Ildiko Demeter, John Brand
Publisher: California Solar Energy Association
202 C St., 1A, San Diego, CA 92101
Status: Unverified 1974
Frequency: Quarterly Circ. 5,000 Price: US.\$15
United States (US)
Dewey Decimal No.: 530
back issues avail.
Special Features: abstr. bibl. charts. illus. stat.
Advertising. Book Reviews
Free copying permitted (FC); Copies provided for fee (C\$);
Free use of abstracts to abstracting services (FCA)
Subject Headings: ENERGY (00003773); PHYSICS (00002203)

0059453 (UI; ST)
Solar Utilization News (Estes Park)
Ed. Art Anderson
Publisher: Alternate Energy Institute
Box 3100, Estes Park, CO 80517, Tel. 303-586-5636
Status: Ceased 1976-1985 (Apr.)
Frequency: Monthly Circ. 1,000 Tabloid Price: US.\$10 to
individuals; institutions \$15
United States (US)
ISSN: 0736-0991
Dewey Decimal No.: 531.64
Special Features: patents. Advertising. Book Reviews
Abstracting and Indexing Services: Alt.Press Ind.
Free copying permitted (FC); Photocopies not provided (N\$)
Subject Headings: ENERGY (00003773)

0057471 (UI; IR; ST)
Solar Energy Utilization: a Bibliography. Vol. 2. Solar
Thermal Components
Supersedes in part: Solar Thermal Energy Utilization: ISSN
0146-5864
Publisher: University of New Mexico; Technology Application
Center
Albuquerque, NM 87131, Tel. 505-277-3622
Co-sponsor: U.S. National Aeronautics and Space
Administration
Status: Ceased 1977-1982
Frequency: base vol. plus q. updates Price: US.\$125
United States (US)
ISSN: 0148-4397
Dewey Decimal No.: 531.64; 620; 016
back issues avail.

(cont. next page)

0059037 (UI; ST)
Wind Engineering
Ed. E. Mowforth
Publisher: Multi-Science Publishing Co. Ltd.

DIALOG File 480: ULRICHS PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

Copies provided for fee (C\$); No free copying (NC); No free use of abstracts to abstracting services (NCA)

Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004492); ABSTRACTING AND INDEXING SERVICES (00000012)

0057470 (UI; IR; ST)

Solar Energy Utilization: a Bibliography. Vol. 1. Solar Power Generation

Formerly: Solar Thermal Power Generation: ISSN 0160-3671: Supersedes in part: Solar Thermal Energy Utilization: ISSN 0146-5864

Publisher: University of New Mexico; Technology Application Center

Albuquerque, NM 87131, Tel. 505-277-3622

Co-sponsor: U.S. National Aeronautics and Space Administration

Status: Ceased 1977-1982

Frequency: base vol. plus q. updates Price: US.\$125

United States (US)

Dewey Decimal No.: 531.64; 620; 016

back issues avail.

Copies provided for fee (C\$); No free copying (NC); No free use of abstracts to abstracting services (NCA)

Subject Headings: ENERGY- ABSTRACTING, BIBLIOGRAPHIES, STATISTICS (00004492); ABSTRACTING AND INDEXING SERVICES (00000012)

0054088 (UI; ST)

Solar Age; a magazine of the sun

Key Title

Ed. Bruce Anderson

Publisher: SolarVision, Inc.

Church Hill, Harrisville, NH 03450, Tel. 603-827-3347

Status: Active 1976

Frequency: Monthly Circ. 61,658 Price: US.\$24

United States (US)

ISSN: 0160-8401

Dewey Decimal No.: 621.475

back issues avail.

Special Features: illus. Advertising. Book Reviews

Abstracting and Indexing Services: A.S.& T.Ind.; Sci.Abstr.

ASCA; Bus.Ind.; Key to Econ.Sci.; PROMT; Tr.& Indus.Ind.

No free copying (NC); Photocopies not provided (N\$); No free use of abstracts to abstracting services (NCA)

Subject Headings: ENERGY (00003773); ENGINEERING (00001089)

0052384 (UI; ST)

Solar Engineering & Contracting

Key Title Former titles (until Jan., 1982): Solar Engineering Magazine: ISSN 0194-6226; Solar Engineering: ISSN 0363-6003

Ed. Tim Fausch

Publisher: Business News Publishing Co.

Box 3600, Troy, MI 48007, Tel. 313-362-3700

Status: Active 1976

Frequency: Bimonthly Circ. 20,110 Price: US.\$24

United States (US)

ISSN: 0731-2970

Dewey Decimal No.: 621

reprint service avail. from UMI

Special Features: Index. Advertising. Book Reviews

Abstracting and Indexing Services: PROMT

Copies provided for fee (C\$); Registered Copyright ClearanceCenter (ccc); No free copying (NC); No free use of abstracts to abstracting services (NCA)

Subject Headings: ENERGY (00003773); ENGINEERING (00001089)

0052365 (UI; ST)

Solar Heating and Cooling

Ed. Patricia Robinson

Publisher: Gordon Publications, Inc.

Box 1952, Dover, NJ 07801, Tel. 201-361-9060

Status: Ceased 1976-1977

Frequency: Monthly Circ. 10,825 Price: US.\$20

United States (US)

Dewey Decimal No.: 536

Special Features: Advertising

Subject Headings: ENERGY (00003773); PHYSICS-HEAT (00002215)

0051696 (UI; ST)

Advanced Solar Energy Technology Newsletter

Ed. Carl M. Langdon

Publisher: Advanced Solar Energy Technology

1609 W. Windrose, Phoenix, AZ 85029

Status: Ceased 1974-1984 (vol., no.12)

Frequency: Monthly Price: US.\$60

United States (US)

ISSN: 0733-0154

Dewey Decimal No.: 621.47

Special Features: bibl. charts. Book Reviews

Free use of abstracts to abstracting services (FCA)

Subject Headings: ENERGY (00003773)

0050508 (UI)

Solar News and Views

Ed. Everett D. Howe

Publisher: American Solar Energy Society

1230 Grandview, Boulder, CO 80302

Status: Unverified 1973

Frequency: Quarterly Price: US.\$10

United States (US)

Dewey Decimal No.: 621.47

Subject Headings: ENERGY (00003773); ENGINEERING (00001089)

DIALOG File 480: ULRICH'S PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

- 0050481 (UI; ST)
Solar Energy Intelligence Report
Key Title Incorporating: Solar Energy Digest: ISSN 0193-5399
Practical Solar: Solar Outlook: Solar Energy Washington Letter
Ed. Allan L. Frank
Publisher: Business Publishers, Inc.
951 Pershing Dr., Silver Spring, MD 20910, Tel. 301-587-6300
Status: Active 1975
Frequency: Weekly Price: US.\$237
United States (US)
ISSN: 0148-4095
Dewey Decimal No.: 621.47
Special features: bibl. Book Reviews
Abstracting and Indexing Services: PROMT
Copies provided for fee (C\$); No free copying (NC); No free
use of abstracts to abstracting services (NCA)
Subject Headings: ENERGY (00003773); ENGINEERING (00001089)
- 0050201 (UI; MB)
Bio-Joule Magazine
Formerly: Bio-Joule Newsletter: ISSN 0708-1936; Supersedes:
Biomass Energy Institute. Newsletter: ISSN 0315-3223
Ed. Peter Winter
Publisher: Biomass Energy Institute
1329 Niakwa Rd., Winnipeg, R2J 3T4 Manitoba, Canada, Tel.
204-257-3891
Status: Active 1978
Frequency: 6 per yr Circ. 5,000 Price: Can.\$20
Canada (CN)
Dewey Decimal No.: 665.5
Special features: Advertising; Book Reviews
Subject Headings: PETROLEUM AND GAS (00002148) ENERGY
(00003773); BIOLOGY (0000036X)
- 0045648 (UI; SF)
Geothermal Resources Council. Bulletin
Ed. David N. Anderson
Publisher: Geothermal Resources Council
Box 1350, Davis, CA 95617-1350, Tel. 916-758-2360
Status: Active 1980
Frequency: 11 per yr Circ. 1,500 Price: US \$45 to
non-members
United States (US)
ISSN: 0160-7782
Dewey Decimal No.: 551.2
back issues avail.
Special features: Advertising; Book Reviews
Abstracting and Indexing Services: GeoRef
Copies provided for fee (C\$); No free copying (NC)
Subject Headings: ENERGY (00003773)
- 0043778 (UI; ST)
Geothermal Energy; earth heat
Formerly: Geothermal Energy Magazine: ISSN 0093-5700
Ed. Karen Lee Garwin
Publisher: Geothermal World Publishers
17304 Village, No. 17, Camarillo, CA 93010-7406
Status: Active 1973
Frequency: Monthly Circ. 6,000 Price: US.\$50
United States (US)
ISSN: 0146-3675
Dewey Decimal No.: 536.7; 551.2
back issues avail.
Special Features: Index. cum.index: 1972-present.
Advertising; Book Reviews
Abstracting and Indexing Services: Patrol. Abstr.
Copies provided for fee (C\$); Registered Copyright
ClearanceCenter (ccc); Free use of abstracts to abstracting
services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773); EARTH SCIENCES-GEOLOGY
(00000917)
- 0036626 (UI; ST)
Solar Energy; the journal of solar energy science and
engineering
Ed. J.A. Duffie
Sponsor: International Solar Energy Society; Publisher:
Pergamon Press, Inc.; Journals Division
Maxwell House, Fairview Park, Elmsford, NY 10523, And
Headington Hill Hall, Oxford, OX3 0BW, England, Tel.
914-592-7700
Status: Active 1957
Frequency: m. (2 vols. per yr.) Circ. 13,000 Price: US.\$298
United States (US)
ISSN: 0038-092X
Dewey Decimal No.: 621.47
Special features: abstr. bibl. charts. illus. Advertising.
Book Reviews
Abstracting and Indexing Services: Appl. Mech. Rev.; A.S. &
T. Ind.; Biol. Abstr.; Chem. Abstr.; Curr. Cont.; Eng. Ind.;
Sci. Abstr.; ASCA
Copies provided for fee (C\$); Registered Copyright
ClearanceCenter (ccc); Free use of abstracts to abstracting
services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773); ENGINEERING (00001089)
- 0027031 (UI; ST)
Applied Solar Energy
English translation of: Gellotekhnika
Sponsor: Akademiya Nauk Uzbekskoi S.S.R.; Publisher:
Allerton Press, Inc.
150 Fifth Ave., New York, NY 10011, Tel. 212-924-3950
Status: Active 1965
Frequency: bimonthly Price: US.\$300
(cont. next page)

DIALOG File 480: ULRICH'S PERIODICALS DIRECTORY-MAY 86 (Copr. R. R. Bowker & Co. 1985)

United States (US)
ISSN: 0003-701X
Dewey Decimal No.: 621.47
Special Features: index. Book Reviews
Abstracting and Indexing Services: Chem.Abstr., Eng.Ind.,
Sci.Abstr.
Copies provided for fee (C\$); Free use of abstracts to
abstracting services (FCA); No free copying (NC)
Subject Headings: ENERGY (00003773); ENGINEERING (00001089)

0004397 (UI)
Ontario Hydro Research Quarterly
Ed. R.A. Johnson
Publisher: Ontario Hydro
700 University Ave., Toronto, Ont. M5G 1X6, Canada
Status: Ceased 1949-1977(vol. 29)
Frequency: Quarterly Circ. 3,300 Price: free
Canada (CN)
ISSN: 0030-2988
Dewey Decimal No.: 621.3; 627
back issues avail.
Special Features: charts. illus. index
Abstracting and Indexing Services: Eng.Ind.
Subject Headings: ELECTRICITY AND ELECTRICAL ENGINEERING
(00001065); ENGINEERING-HYDRAULIC ENGINEERING (00001120);
ENERGY (00003773)

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DATABASES AVAILABLE ONLINE

This section contains 23 databases that cover general or technical information resources. The selected databases include the major sources of published renewable energy information; the list is not exhaustive.

The databases can be accessed via three major vendors of online retrieval service. They are as follows:

BRS
1200 Route 7
Latham, NY 12110

DIALOG Information Services, Inc.
3460 Hillview Avenue
Palo Alto, CA 94304

SDC Information Services
2500 Colorado Avenue
Santa Monica, CA 90406

The databases were selected from the Directory of Online Databases published by Cuadra/Elsevier, 52 Vanderbilt Avenue, New York, NY 10017 (copyright Cuadra/Elsevier). The abstracts are reproduced herein with permission from Cuadra/Elsevier.

AGRICOLA

Type: Reference (Bibliographic)

Subject: Agriculture, Food Sciences & Nutrition

Producer: U.S. Department of Agriculture

Online Service: BRS, BRS After Dark (a special BRS service), DIALOG Information Services, Inc., Knowledge Index (a special DIALOG service)

Content: Contains citations to the journal literature, government reports, serials, monographs, audiovisual resources, and pamphlets in agriculture and related areas that have been acquired by the National Agricultural Library (NAL) for use by the U.S. Department of Agriculture. Topics covered include agricultural economics and rural sociology, agricultural production, animal sciences, chemistry and engineering, entomology, food and human nutrition, forestry, natural resources, pesticides, plant science, soils and fertilizers, and water resources. Also covers related areas such as land use, family migration, labor and political movements, and the impact of chemicals on living organisms. Contributing agencies include: State Agricultural Experiment Stations and Extension Services, the United Nations Food and Agriculture Organization, the NAL Food and Nutrition Information Center (abstracts available from 1973 on), and the American Agriculture Economics Documentation Center (abstracts available from 1976 on). Corresponds in part to *Bibliography of Agriculture*.

Language: English

Coverage: International

Time Span: BRS, BRS After Dark, and DIALOG, 1970 to date; Knowledge Index, 1979 to date

Updating: About 12,000 records a month

AGRIS (international Information System for the Agricultural Sciences and Technology)

Type: Reference (Bibliographic)

Subject: Agriculture

Producer: Food and Agriculture Organization of the United Nations (FAO), Agris Coordinating Centre

Online Service: DIALOG Information Services, Inc. (to be available), DIMDI, ESA-IRS, International Atomic Energy Agency (IAEA)

Conditions: Approval of Liaison Office in user's country may be required, contact FAG for complete list of participating countries and addresses of Liaison Offices or consult current issue of *Agrindex*

Content: Contains citations, some with abstracts, to the worldwide literature on all aspects of agriculture. Topics covered include geography and history, legislation, education, extension, and advisory work, economics, development, marketing, and rural sociology, plant production, protection of plants and stored products, forestry, animal production, veterinary medicine, aquatic sciences and fisheries, machinery and buildings, natural resources, food science, human nutrition, home economics, and pollution. Corresponds to the monthly *Agrindex*.

Language: English, with titles also in original languages

Coverage: International

Time Span: 1975 to date

Updating: About 10,000 records a month

BOOKS IN PRINT

Type: Reference (Bibliographic)

Subject: Books & Periodicals-Catalogs

Producer: R R Bowker Company

Online Service: BRS, BRS After Dark (a special BRS service), DIALOG Information Services, Inc., Knowledge Index (a special DIALOG service), UTLAS Inc. (as part of the CATSS database (see))

Content: Contains citations to about 900,000 books currently in print or declared out of print (from July 1979 to date), and soon-to-be published titles from more than 16,000 publishers. Includes scholarly, popular, adult, juvenile, reprint, and other books on all subjects published by U.S. publishers or exclusively distributed in the U.S. and available to the trade or general public for single- or multiple-copy purchases. Such items as government publications, Bibles, free books and subscription-only titles are excluded. Corresponds to *Books in Print*, *Forthcoming Books in Print*, *Books in Print Supplement*, and data that appear in other Bowker bibliographies (e.g., *Scientific and Technical Books in Print*, *Medical Books in Print*, *Business and Economics Books in Print*, *Paperbound Books in Print*). Subject classification scheme utilizes over 80,000 Library of Congress subject headings as well as Sears headings and *Paperbound Books in Print Headings*.

Language: English

Coverage: U.S.

Time Span: 1900 to date

Updating: About 5500 records a month

CA SEARCH

Type: Reference (Bibliographic)

Subject: Chemistry

Producer: Chemical Abstracts Service (CAS)

Online Service: BRS (CA SEARCH), BRS After Dark (a special BRS service) (CA SEARCH), CISTI (CAS), DATA-STAR (CHEM), DIALOG Information Services, Inc. (CA SEARCH), ESA-IRS (CHEMABS), The Japan Information Center of Science and Technology (JICST) (CA SEARCH), Japan Information Processing Service Co. Ltd. (JiP) (CA SEARCH), Pergamon InfoLine Ltd. (CA SEARCH), SDC Information Services (CAS), STN International (CA FILE), Telesystemes-Questel (EUCAS)

Content: Contains citations to the worldwide literature in chemistry: organic, analytical, physical, applied, macromolecular, biochemical and chemical engineering. Covers journal articles, monographs, conference proceedings, technical reports, dissertations, and patents. Contains bibliographic information and keyword index entries from the printed *Chemical Abstracts* and CAS-assigned subject terms and Registry Numbers.

NOTE: Through DIALOG, Telesystemes-Questel, SDC, and STN, users can retrieve systematic names by transferring retrieved Registry Numbers to the REGISTRY NOMENCLATURE AND STRUCTURE SERVICE (see). Backfiles of citations only are available through BRS (for 1970-1976) and CISTI (for July 1973-1976) under the name CA CONDENSATES.

NOTE: On STN International, contains abstracts from mid-1975 to date.

Language: English

Coverage: International

Time Span: DATA-STAR, DIALOG, ESA-IRS, SDC, STN International, and Telesystemes-Questel, 1967 to date; BRS, BRS After Dark, CISTI, JICST, JiP, and Pergamon InfoLine, 1977 to date.

Updating: BRS, BRS After Dark, and CISTI, about 40,000 records a month; DATA-STAR, DIALOG, ESA-IRS, JICST, JiP, Pergamon InfoLine, SDC, STN International, and Telesystemes-Questel, about 19,000 records every 2 weeks.

CAB ABSTRACTS

Type: Reference (Bibliographic)

Subject: Agriculture, Food Sciences & Nutrition, Veterinary Sciences

Producer: Commonwealth Agricultural Bureaux

Online Service: DIALOG Information Services, Inc.; DIMDI, ESA-IRS, University of Tsukuba

Content: Contains about 1.7 million citations, with abstracts, to the worldwide literature in the agricultural sciences and related areas of applied biology. Corresponds to the 27 main journals and 20 specialized journals published by the Commonwealth Agricultural Bureaux. Subjects covered include animal breeding, engineering, bees, dairy science, crops, forestry, helminthology, horticulture, veterinary medicine, plant breeding, protozoology, applied entomology, mycology, plant pathology, rural development and sociology, soils and fertilizers, weeds, agricultural economics, leisure and recreation, human and animal nutrition, and arid lands (through 1982 only). On DIMDI, coverage of veterinary medicine begins in 1972.

NOTE: On DIALOG and ESA-IRS, also contains citations from ANIMAL DISEASE OCCURRENCE (see)

Coverage: International

Time Span: 1973 to date

Updating: About 12,000 records a month

COMPENDEX* (Computerized Engineering Index)

Type: Reference (Bibliographic)

Subject: Engineering

Producer: Engineering Information, Inc.

Online Service: BRS, Centre de Documentation de l'Armement (CEDOCAR); CISTI, DATA-STAR, DIALOG Information Services, Inc., ESA-IRS, INKA Karlsruhe; Knowledge Index (a special DIALOG service) (ENGINEERING LITERATURE INDEX), Pergamon InfoLine Ltd.; SDC Information Services; TECH DATA (a special BRS/IRS service), University of Tsukuba

Content: Contains citations, with abstracts, to the worldwide literature (excluding patents) in engineering and technology. Fields of engineering include: civil, water and waterworks, sanitary and waste, bioengineering, geology and mining, petroleum, metallurgical, mechanical, industrial, aerospace, automotive, marine, railroad, electrical, electronics and communications control, chemical, and agricultural. Related subject areas covered include construction materials, properties and testing of materials, transportation, pollution, ocean and underwater technology, nuclear technology, fluid flow, heat and thermodynamics, computers and data processing, light and optical technology, sound and acoustical technology, food technology, applied physics, instruments, and measurements. Conference review records contain conference code numbers which are links to complete coverage of all papers in *ENGINEERING MEETINGS* (see). Corresponds to *The Engineering Index Monthly*.

Language: Primarily English, with about 30% of the records in other languages

Coverage: International

Time Span: ESA-IRS and Tsukuba, 1969 to date; DIALOG and SDC, 1970 to date; CISTI, 1970 to date, with abstracts displayable from 1982 to date (1969 data to be available in 1985); CEDOCAR, INKA, and Pergamon InfoLine, 1973 to date; Knowledge Index, 1975 to date; BRS, DATA-STAR, and TECH DATA, 1976 to date

Updating: About 10,000 records a month

CONFERENCE PAPERS INDEX[®] (CPI)

Type: Reference (Bibliographic)

Subject: Science & Technology

Producer: Cambridge Scientific Abstracts

Online Service: DIALOG Information Services, Inc., ESA-IRS

Content: Contains citations to scientific and technical papers presented at regional, national, and international meetings. Separate references to conferences are included from 1982 to date. Is a source of information on current research and development, primarily in the life sciences, medicine, chemistry, physical sciences, and engineering. Records include names and addresses of authors, conference title, location, date, sponsors, and the information required to order available proceedings, preprints, reprints, and abstracts. Corresponds to *Conference Papers Index*.

Language: English

Coverage: International

Time Span: 1973 to date

Updating: About 8300 records a month

* CUADRA DIRECTORY OF DATABASES

Type: Reference (Referral)

Subject: Directories, Information Systems & Services

Producer: Cuadra Associates, Inc.

Online Service: To be announced in early 1985

Content: Contains descriptions of more than 2400 publicly available online databases. For each database, provides name, type (bibliographic, referral, numeric, textual-numeric, full text, software), description of content, subject, language, geographic coverage, time span, frequency of updating, and, if applicable, conditions of access. Also provides names and addresses of database producers and online services. Corresponds to *Directory of Online Databases*.

Language: English

Coverage: International

Time Span: Current information

‡ DOE ENERGY

Type: Reference (Bibliographic)

Subject: Energy

Producer: U.S. Department of Energy (DOE), Office of Scientific and Technical Information

Online Service: DIALOG Information Services, Inc. (DOE ENERGY); INKA Karlsruhe (DOE ENERGY); Mead Data Central (to be available as a NEXIS database (see)); U.S. Department of Energy (ENERGY DATA BASE) (no longer available through SDC Information Services)

Conditions: This database accessible through DIALOG and Mead Data Central only in the U.S.; through INKA only in some European countries by specific bilateral agreement, and through the U.S. Department of Energy only to staff and contractors of the U.S. Department of Energy (other government agencies with energy-related programs may also be granted access).

Content: Contains about 950,000 citations, with abstracts (since June 1976), to literature in all fields of energy. Covers all unclassified technical information processed by the DOE Technical Information Center in Oak Ridge, Tennessee. Includes information announced in the following publications: *Energy Abstracts for Policy Analysis*, *Energy Research Abstracts*, *Coal Abstracts*, *Biomass Abstracts*, *INIS Atomindex* (from 1976 on), and *Current Energy Patents*. Also covers U.S. Department of the Interior, Bureau of Mines publications on energy since 1910, publications of the DOE Energy Information Administration (EIA), publications of the IEA Coal Information Service (see *COAL DATA BASE*) and the IFA Biomass Conversion Technical Information Service, and unpublished German research reports from World War II on coal gasification and liquefaction processes. Covers topics of interest to DOE, including advanced automotive propulsion systems, biomedical sciences, chemistry, coal, controlled thermonuclear research, electric research, electric power engineering, energy conservation, consumption, and utilization, energy conversion, management, and storage, engineering, aquatic, atmospheric, and terrestrial environmental studies, economic-social aspects of energy technologies, explosions and explosives, fission and fusion fuels, geosciences, geothermal energy, health and safety, hydroenergy, hydrogen, instrumentation, isotope and radiation source technology, materials, natural gas, nuclear power plants, nuclear reactor technology, oil shales and tar sands, other synthetic and natural fuels, particle accelerators, petroleum, physics research, solar energy, super computers, tidal power, and wind energy.

Language: English

Coverage: International

Time Span: 1974 to date, with some materials from the late 1800s.

Updating: About 15,000 records a month

EBIB[®] (Energy Bibliography & Index)

Type: Reference (Bibliographic)

Subject: Books & Periodicals-Library Holdings, Energy

Producer: Texas A & M University Library

Online Service: SDC Information Services

Content: Contains citations, with abstracts, to the non-journal literature related to energy in the Texas A & M University library. The types of literature covered include books, serials, periodical titles, government documents, selected technical reports, conference proceedings and symposia, maps, pamphlets, and brochures. Major topic areas include production, utilization, and conservation of all types of fuels (e.g., hydrogen, nuclear, synthetic, fossil); alternative energy sources (e.g., wind, solar, geothermal, and fusion); power plants and transmission systems, and economic, political, environmental, and statistical aspects of energy-related issues and activities. Coverage of nuclear energy is limited to nuclear power and fusion energy; nuclear theory and engineering are not included. Also includes citations to German documents from World War II on synthetic liquid fuels manufactured from coal. Corresponds to *Energy Bibliography and Index*.

Language: English

Coverage: International

Time Span: 1919 to date, with earliest records from 1866

Updating: Periodically, as new data become available

‡ ECONOMIC LITERATURE INDEX

Type: Reference (Bibliographic)

Subject: Economics

Producer: Journal of Economic Literature - American Economic Association

Online Service: DIALOG Information Services, Inc.

Content: Contains about 95,000 citations to articles from approximately 260 economics journals and about 200 collected works a year. Topics covered include general economics, theory, history, systems, and development, quantitative economic methods and data, domestic monetary and financial theory, business finance and investment, marketing, accounting, labor, population, and consumer economics, and urban and regional economics. Corresponds in part to the quarterly *Journal of Economic Literature* and to the annual *Index of Economic Articles*.

Language: English

Coverage: International

Time Span: 1969 to date

Updating: About 2500 records a quarter

ELECTRIC POWER DATABASE[®] (EPD)

Type: Reference (Referral)

Subject: Energy, Research in Progress

Producer: Electric Power Research Institute (EPRI)

Online Service: DIALOG Information Services, Inc., U.S. Department of Energy

Conditions: Available through the U.S. Department of Energy only to staff and contractors of the Department of Energy, other government agencies with energy-related programs may also be granted access

Content: Contains over 13,000 references to in-progress and completed research and development projects related to electric power, including these topics: hydro-electric power, fossil fuels, nuclear power, transmission, economics, advanced power systems, and environmental assessment. Covers research projects of EPRI, EPRI member utilities (e.g., Pacific Gas & Electric), EPRI contractors (e.g., General Electric), and the Canadian Electrical Association. Corresponds to the *Digest of Research in the Electric Utility Industry*.

Language: English

Coverage: U.S.

Time Span: 1972 to date

Updating: Monthly, about 1000 new and 6000 revised records a year.

ELECTRIC POWER INDUSTRY ABSTRACTS (EPIA)

Type: Reference (Bibliographic)

Subject: Energy, Environment

Producer: Utility Data Institute for the Edison Electric Institute

Online Service: SDC Information Services

Content: Contains citations, with abstracts, to literature on the environmental aspects of new power plants and related facilities. Major topics covered include environmental effects of electric power plants that use nuclear, oil, coal, gas, hydro-electric, geothermal, or solar energy and associated transmission lines; power plant siting methodologies, fuel transportation, storage, and use; licensing and permit data, monitoring programs, land use studies, coastal zone management plans, waste disposal facilities, and safety and risk assessment. Covers technical reports and studies prepared by the electric utilities and their consultants, as well as reports prepared by such federal agencies as the Nuclear Regulatory Commission, U.S. Department of Energy, Bureau of Land Management, U.S. Environmental Protection Agency, Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Forest Service, U.S. Fish and Wildlife Service, and Rural Electrification Administration. Coverage also includes reports by state agencies, siting commissions and control boards, as well as selected journal articles, conference proceedings, and testimony from Congressional hearings.

Language: English

Coverage: U.S.

Time Span: 1975 to date

Updating: 6 times a year

‡ ENERGYLINE®

Type: Reference (Bibliographic)

Subject: Energy

Producer: EIC/Intelligence Inc

Online Service: DIALOG Information Services, Inc., ESA-IRS, SDC Information Services (no longer available through INKA Karlsruhe and University of Tsukuba)

Content: Contains citations (with abstracts, from 1975) to literature relating to energy issues and problems. Aspects of the area that are covered include economics, government policy and planning, international political and economic issues, research and development, petroleum, natural gas, and coal resources and reserves, solar energy, unconventional energy sources, electric, nuclear, and thermo-nuclear power, fuel production, transport, and storage, consumption, conservation, and environmental impact. Covers all types of published literature with emphasis on non-serial documents. Contains all energy-related citations from *Environment Abstracts* that appeared during 1971-1975. Corresponds to *Energy Index* (1971-1976) and *Energy Information Abstracts* since 1976.

Language: English

Coverage: International

Time Span: 1971 to date

Updating: About 550 records a month

ENERGYNET®

Type: Reference (Referral)

Subject: Directories, Energy Industry

Producer: EIC/Intelligence Inc

Online Service: DIALOG Information Services, Inc., ESA-IRS

Content: Provides information on over 2500 energy-related organizations: federal and state energy offices and agencies, congressional committees, subcommittees and support offices, municipal agencies, trade and professional associations, public interest groups, research centers, research and development firms, electric and nuclear utilities, oil, coal, gas, alternative energy, and consulting companies, and leading energy-consuming companies. Each record contains the organization's name, address, telephone number, names of parent and subsidiary organizations and chief officers, publications and products, and a descriptive paragraph that includes financial information, when available. Corresponds to *The Energy Directory*.

Language: English

Coverage: U.S.

Updating: Annually

‡ ENVIROLINE *

Type: Reference (Bibliographic)

Subject: Environment

Producer: EIC/Intelligence Inc

Online Service: DIALOG Information Services, Inc.; ESA-IRS, SDC Information Services (no longer available through University of Tsukuba)

Content: Contains citations (with abstracts, from 1975) to a broad range of issues and topics related to the environment and the management and use of natural resources. Major topic areas included are air, water, and noise pollution, management of renewable and non-renewable resources of the land and water, environmental impact of drugs, chemicals, and biological and radiological contaminants, weather modification, and population planning and control. Covers all types of printed literature including conference papers, research reports, government documents, and journal articles. Corresponds to *Environment Abstracts* and *Environment Index*.

Language: English

Coverage: International

Time Span: 1971 to date

Updating: About 700 records a month

ENVIRONMENTAL BIBLIOGRAPHY

Type: Reference (Bibliographic)

Subject: Environment

Producer: Environmental Studies Institute

Online Service: DIALOG Information Services, Inc

Content: Contains citations to literature on the environment, including water, air, soil, and noise pollution, solid waste management, health hazards, urban planning and other related topics. Corresponds to *Environmental Periodicals Bibliography*.

Language: English

Coverage: U.S.

Time Span: 1973 to date

Updating: About 4000 records every 2 months

GPO MONTHLY CATALOG

Type: Reference (Bibliographic)

Subject: Books & Periodicals-Catalogs, Government-U.S. Federal

Producer: U.S. Government Printing Office

Online Service: BRS, DIALOG Information Services, Inc

Content: Contains citations to the publications of U.S. government agencies, including the U.S. Congress. Covers Senate and House hearings on bills and laws, as well as agency-sponsored studies, fact sheets, maps, handbooks, subject bibliographies, and conference proceedings. Subjects covered include agriculture, economics, energy, public affairs, taxation, law, health, consumer issues, and environment. Corresponds to *Monthly Catalog of United States Government Publications*

Language: English

Coverage: U.S.

Time Span: July 1976 to date

Updating: About 2500 records a month

INSPEC™

Type: Reference (Bibliographic)

Subject: Computer Science, Engineering, Physics

Producer: Institution of Electrical Engineers

Online Service: BRS, Centre de Documentation de l'Armement (CEDOCAR), CISTI, DATA-STAR, DIALOG Information Services, Inc., ESA-IRS, INKA Karlsruhe, The Japan Information Center of Science and Technology (JICST), Japan Information Processing Service Co. Ltd. (JIP), Knowledge Index (a special DIALOG service), SDC Information Services, TECH DATA (a special BRS/IHS service), University of Tsukuba

Content: Contains citations, with abstracts, to the worldwide literature in physics, electronics and electrical engineering, computers and control, and information technology. Primary coverage is of journal articles and papers presented at conferences, although significant books, technical reports, and dissertations are also included. Topics covered in physics include mathematical and theoretical physics, electromagnetism and optics, quantum field theory and elementary particle physics, nuclear physics, atomic and molecular physics, gases, fluid dynamics, and plasmas, structural, thermal, mechanical, electrical, magnetic, and optical properties of condensed matter, geophysics, astronomy and astrophysics, and related interdisciplinary topics. Topics covered in electronics and electrical engineering include circuits and electronics, electron devices and materials, electromagnetics and communication, instrumentation and measurement, and energy and power systems and applications. Topics covered in computers and control include systems and control theory, control technology, computer programming and applications, and computer systems and equipment. Information technology topics include applications of modern communications and computing to the production, transmission, storage, and interpretation of visual, oral, and digitally encoded information. Hardware coverage includes microcomputers and related peripherals. Corresponds to these publications: *Physics Abstracts*, *Electrical & Electronics Abstracts*, *Computer and Control Abstracts*, and *IT FOCUS: Information Technology Update for Managers*.

Language: English

Coverage: International

Time Span: DIALOG, JIP, and Tsukuba, 1969 to date, BRS, DATA-STAR, and TECH DATA, 1970 to date, CISTI, 1970 to date with abstracts from 1982 to date, ESA-IRS and INKA, 1971 to date, CEDOCAR, 1972 to date, Knowledge Index and SDC, 1977 to date, JICST, 1981 to date

Updating: About 16,000 records a month

‡ NTIS (National Technical Information Service)

Type: Reference (Bibliographic)

Subject: Science & Technology

Producer: National Technical Information Service

Online Service: BRS, BRS Alter Dark (a special BRS service), Centre de Documentation de l'Armement (CEDOCAR), CISTI, DATA STAR, DIALOG Information Services, Inc., ESA-IRS, INKA Karlsruhe, The Japan Information Center of Science and Technology (JICST), Knowledge Index (a special DIALOG service), SDC Information Services, TECH DATA (a special BRS/IHS service)

Content: Contains over 1 million citations, most with abstracts, to unrestricted technical reports from U.S. and non-U.S. government-sponsored research, development, and engineering analyses. The unpublished U.S. reports are prepared by federal, state, and local agencies and their contractors or grantees. Major areas covered include the biological, social, and physical sciences, mathematics, engineering, and business information. Includes announcements of computer-readable software and data files, U.S. government-owned inventions, selected reprints, federally-sponsored translations, and some non-English-language reports. Corresponds to the biweekly publication *Government Reports Announcements & Index* (GRA & I) and in part to the weekly *Abstract Newsletters*.

Language: English

Coverage: U.S.

Time Span: BRS, BRS Alter Dark, CISTI, DATA STAR, DIALOG, ESA-IRS, Knowledge Index, SDC, and TECH DATA, 1964 to date, CEDOCAR and INKA, 1974 to date, JICST, 1981 to date

Updating: BRS, BRS Alter Dark, ESA-IRS, INKA, and TECH DATA, about 5000 records a month, all others, about 2600 records every 2 weeks

P/E NEWS (Petroleum/Energy Business News Index)

Type: Reference (Bibliographic), Source (Full Text)

Subject: Energy Industry

Producer: American Petroleum Institute (API), Central Abstracting and Indexing Service

Online Service: SDC Information Services

Content: Contains citations to the petroleum and energy business news from these sources: *Middle East Economic Survey*, *The Oil Daily*, *The Petroleum Economist*, *Petroleum Intelligence Weekly*, *Platt's Oilgram News*, *Oil and Gas Journal*, *National Petroleum News*, *Energy Asia*, *Petroleum Times*, *Petroleum News SE Asia*, *The Lundberg Letter*, *International Petroleum Finance*, *Petroleum Outlook*, *U.S. Oil Week*, *Bulletin de l'Industrie Pétrolière*, and *Platt's Oil Marketing Bulletin*. Covers news of plans and actions of government agencies, corporations, and other organizations, economic factors, such as supply, demand, taxation, and labor matters, and environmental issues.

Language: English

Coverage: International

Time Span: 1975 to date

Updating: About 800 records a week

POLLUTION ABSTRACTS*

Type: Reference (Bibliographic)

Subject: Environment

Producer: Cambridge Scientific Abstracts

Online Service: BRS (POLL), DIALOG Information Services, Inc. (POLLUTION ABSTRACTS), ESA-IRS (POLLUTION), University of Tsukuba (POLLUTION ABSTRACTS)

Content: Contains citations, with abstracts, to the worldwide technical and non-technical literature on pollution research, sources, and controls. Covers air, water, land, thermal, noise, and radiological pollution, pesticides, sewage and waste treatment, environmental action, and toxicology and health. Corresponds in coverage to *Pollution Abstracts*.

Language: English

Coverage: International

Time Span: 1970 to date

Updating: Most services, about 1400 records every 2 months, BRS, monthly

POWER

Type: Reference (Bibliographic)

Subject: Books & Periodicals-Catalogs, Energy, Environment

Producer: U.S. Department of Energy (DOE), Energy Library

Online Service: SDC Information Services

Content: Contains citations to over 35,000 monographs, conference proceedings, and other materials in the book collection of the DOE Energy Library. Emphasis is on energy technologies, physical and environmental sciences, economics, renewable resources, energy and water resources, and general works on energy. Includes items from the former Atomic Energy Commission, Energy Research and Development Administration, Federal Power Commission, and Federal Energy Administration libraries.

Language: English

Coverage: International

Time Span: Most materials from the 1970s and 1980s, with Federal Power Commission items from the early 20th Century to 1984 and Atomic Energy Commission items from the 1960s.

Updating: Every 2 months

‡ TROPAG (ATA)

Type: Reference (Bibliographic)

Subject: Agriculture

Producer: Royal Tropical Institute

Online Service: SDC Information Services (no longer available through Samsom Data Systemen bv)

Content: Contains citations, with abstracts, to the worldwide literature on the practical aspects of tropical and subtropical agriculture. Topics covered include crop production and protection, crop processing and storage, fertilizers and soil as they relate to plant nutrition, and agricultural techniques. Also covers areas such as the social aspects of agricultural development and includes economic, commercial, and statistical information. References are drawn from journals, books, research reports, intergovernmental and governmental publications, symposia papers and proceedings, and extension bulletins. Corresponds to *Abstracts on Tropical Agriculture*.

Language: English

Coverage: International

Time Span: 1975 to date

Updating: About 450 records a month

APPENDIX C

PROCEDURES AND EXAMPLES FOR
ENERGY BIBLIOGRAPHIC DATABASE
USING INMAGIC

ENERGY4 REPORTS

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Report: SHORT TITLE LISTING

Format Name: SHORTTI

Description: The SHORT TITLE LISTING is a very quick and short listing of the records in alphabetical order by title. The format is useful for library housekeeping functions such as preparation of title lists for duplicate checking, lists of accessions for network members, and any other lists for which only a short record is needed for identification purposes. Each record contains the title, author, accession number, library, and call number.

When using SHORTTI, Inmagic will prompt the operator for the title of the report. The title must be less than 33 characters. The title and the date appear at the top of each page.

How To Run Report:

1. Go to the SELECT environment.
2. Use the GET command to gather the appropriate records for the report. Examples:

```
GET LIBRARY EQ (MME or MMET) (to get all MME/MMET holdings)
GET LIBRARY EQ PCJ (to get all the PCJ holdings)
GET ACCNO GT 000000 (to get the whole file)
GET DATEIN GT "Dec. 31, 1985" (to get all the records
    entered after Dec. 31, 1985) [N.B.: Dates must be
    enclosed in quotes in a search command.]
```

3. DISPLAY BY TITLE USING SHORTTI (to review the report).
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT BY TITLE USING SHORTTI (and enter the search title, up to 33 characters, as requested).

Notes

1. When you display or print records using SHORTTI, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.

MME Holdings

03/14/86

- BIOMASS FOR ENERGY IN THE DEVELOPING COUNTRIES: CURRENT ROLE,
POTENTIAL, PROBLEMS, PROSPECTS/ Hall, D. O./ Barnard, G. W/ Moss,
P. A
JED 000124 MME 662.63(-77)
- CALLIANDRA: A VERSATILE SMALL TREE FOR THE HUMID TROPICS/
JED 000121 MME 662.63:634
- CARIBBEAN CONSULTATION ON ENERGY AND AGRICULTURE: GEOLOGICAL
CONSTRAINTS ON CARIBBEAN ENERGY PRODUCTION/ Wright, Raymond M.
JED 000068 MME Info file (Power Resources)
- CARICOM WORKSHOP ON ENERGY ASSESSMENT NEEDS IN THE CARIBBEAN, MAY
15-16, 1980, KINGSTON: FUTURE ENERGY PLANNING AND POLICY NEEDS IN
THE CARIBBEAN/ Zia Mian, Ahmad
JED 000204 MME Info File (Power Resources)
- CASUARINAS: NITROGEN-FIXING TREES FOR ADVERSE SITES/
JED 000120 MME 662.63:634
- CENTRAL LIBRARY DIRECTORY/ Sudan. National Energy Administration,
Ministry of Energy and Mining
JED 000161 MME 016:620.9
- CHARCOAL PRODUCTION USING A TRANSPORTABLE METAL KILN/ Paddon, A. R./
Harker, A. P.
JED 000276 MME 662.711.4
- A CHINESE BIOGAS MANUAL/ Buren, Ariane Van
JED 000127 MME 662.65(02)
- COAL AS A POSSIBLE ALTERNATIVE SOURCE OF ENERGY FOR JAMAICA: AN
ENERGY STRATEGY FOR THE FUTURE/ Lowe, Henry/ Jamaica. Ministry of
Mining and Energy
JED 000265 MME 662.66(729.2)
- COMBINED CHARCOAL AND ELECTRICAL ENERGY PRODUCTION PLANT: 10,000 T/U
- 3.4MW; A RURAL DEVELOPMENT/ Jamaica. Ministry of Mining and
Energy/ SETIMEG
JED 000248 MME 662.71+621.311
- COMMERCIALY AVAILABLE SMALL WIND SYSTEMS AND EQUIPMENT/
JED 000117 MME P/621.548
- COMMONWEALTH SCIENCE COUNCIL WORKSHOP ON METEOROLOGICAL DATA FOR
SOLAR AND WIND ENERGY APPLICATIONS: ALTERNATIVE ENERGY PROJECTS IN
TRINIDAD AND TOBAGO/ Headley, Oliver
JED 000016 MME Info File (Solar Energy)
- CONSTRUCTION MANUAL: ENERGY CONSERVATION FOR BUILDINGS IN JAMAICA/
Dubin-Bloome Associates, Partners/ Jamaica. Ministry of Mining and
Energy
JED 000227 MME 620.93:721(729.2)

Name of format? SHORTTI

Name of data structure? ENERGY3

Date created? 10/14/85

Date last modified? 03/14/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 1
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

1. REPTITL 'Enter report title (up to 33 characters):'

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. REPTITL, LINE 3, COLUMN 13 - 50
2. @DATE, LINE 3, COLUMN 55 - 79
3. @PAGE, LINE 63, COLUMN 40 - 79

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 10 - 75
2. TITLE, UPPER, LINE 1, INDENT -3, END '/'
3. AUTHOR, SEPARATE '/'
4. ACCNO, LINE + 1, INDENT 0, BEGIN 'JED '
5. @LIST
6. LIBRARY, LINE SAME 4, COLUMN 26 - 30
7. CALLNO, LINE SAME 4, COLUMN 31 - 75

Report: JAMAICA ENERGY BIBLIOGRAPHY - MAIN ACCESSION
NUMBER LISTING

Format Name: JAMBIB

Description: The JAMAICA ENERGY BIBLIOGRAPHY contains titles about Jamaica, written in Jamaica, or by Jamaican authors. It consists of a main listing by accession number, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The MAIN LISTING is arranged in accession number order. Each record includes the accession number, title, author, imprint or source, physical description, series, document type, ISBN (if known), language (if other than English), distribution restrictions, library, call number, and abstract. If a record is split between pages, a continuation message appears in the lower right-hand corner of the page.

The report is titled "JAMAICA ENERGY BIBLIOGRAPHY"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SELECT environment.
2. GET JAMBIB EQ (Y OR YES)
3. DISPLAY BY ACCNO USING JAMBIB (to review the report).
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT BY ACCNO USING JAMBIB

Notes

1. When you display or print the JAMAICA ENERGY BIBLIOGRAPHY - MAIN ACCESSION NUMBER LISTING using JAMBIB, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.

JAMAICA ENERGY BIBLIOGRAPHY

02/03/86

PAGE 1

000001

JAMAICA - PRELIMINARY ENERGY FORECAST 1978-1982; TERMINAL REPORT - PART 2 /by Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1978.

76p., graphs, tables.

Report

Library: MME Info File (Power Resources -- Jamaica)

Abstract: A background paper in developing the Energy Section of Jamaica's Five Year Development Plan (FYDP) 1978 - 1982. Gives preliminary energy demand forecast, focusing mainly on commercial demand (petroleum and hydropower). Recommends policy objectives. The very limited flexibility in energy demand patterns in the short run will continue the country's dependence on energy imports (emphasis on energy conservation is suggested). A policy of energy self-reliance lessening energy-intensiveness and developing indigenous energy resources must be pursued in the long run. A comprehensive long-term energy plan and the establishment of an agency for implementation are necessary. Presents projections for various economic areas (bauxite/alumina, electricity, food processing, cement etc.). Includes economic outlook, historical overview, sectoral review (analysis), implications (cost, policy), and methodology. Details on petroleum consumption/demand/sector/history, Energy/GDP Ratio, Bauxite/Alumina Sector are also included.

000002

ENERGY COSTS AND CAPITAL NEEDS IN OIL-IMPORTING DEVELOPING COUNTRIES. /by Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1977?

32p., 6 tables, 9 refs.

Unpublished Paper

Library: MME Info File (Power Resources)

Abstract: The paper investigates the effects of increased energy prices and long-term energy requirements on the economic development of Oil Importing Developing Countries (OIDC). Includes models on economic development and foreign capital transfer, as well as energy-income relationship. A Jamaican scenario is presented and discussions include the O IDC's dependence on imported energy and the flow of capital. An estimated minimum 7.1 billion (1983) US constant dollars) will be required for investments in energy industries of non-OPEC developing countries for the rest of the decade. Suggests that multi-lateral assistance by international institutions remains small as compared to the external financing requirements of O IDC's and provisions should be made to help economies such as Jamaica develop energy independence. Tables present economic indicators and income price elasticities for Jamaica, world energy consumption and a summary of oil imports of O IDC's by group.

000003

NATIONAL ENERGY POLICY PROGRAMME /by Jamaica. Ministry of Mining and Energy. 1980.

continued...

19p. (Ministry Paper No. 8)
Ministry Paper
Library: MME Info File (Energy Policy)

Abstract: Outlines objectives and programmes to reduce Jamaica's 99% dependence on imported fuel for commercial energy needs. The five-year (1978-1992) national energy plan aims to (i) reduce oil imported and diversify the energy supply mix (ii) accelerate exploration and development of indigenous energy sources (iii) reduce the economy's energy intensity while sustaining export-oriented growth in non-energy intensive sectors, (iv) cushion the impact of increasing energy prices on low income groups with pricing policies that promote these objectives. Programmes include energy conservation measures, institutional plan and identification of alternative energy sources. The paper cites conservation as the only short term option for realizing the objectives and focuses on four areas: (i) Phased reduction of petroleum products availability and utilization (ii) Energy Auditing (iii) Fiscal Measures (iv) Public Education. Alternative energy sources include solar, oil and gas exploration, peat, biogas biomass, wind, hydropower, geothermal and ocean thermal energy. Phasing and priorities of programme are discussed. Appendices provide details on energy conservation measures and discuss foreign policy on energy.

000004

AN APPROACH TO ENERGY PLANNING METHODOLOGY FOR THE CARIBBEAN: THE JAMAICAN MODEL /by Ashby, William R. 1980.

21p.

Conference Paper

Library: MME Info File (Power Resources)

Abstract: Discusses administrative structure, pricing policy, assessment of energy resources and approach to energy supply demand management, especially the sectoral energy end-use programme. Cites six components of energy: (1) an institutional structure for policy administration (2) a policy for petroleum marketing and pricing (3) policy for electricity generation and pricing (4) identification and development of indigenous energy resources (5) energy conservation (6) restructuring of economies responsive to anticipated petroleum prices and supply. A household and hotel energy use survey is discussed. The author concludes that the success of energy programmes is constrained by the availability of trained personnel in the energy field.

000005

MINISTRY OF MINING, ENERGY AND TOURISM STRATEGIC MANAGEMENT WORKSHOP:FINAL BRIEF /by Brown, Don / Jamaica Institute of Management / Jamaica. Ministry of Mining, Energy and Tourism.

15p.

Unpublished Paper Distribution: Restricted

Library: MME Info File (Management)

continued...

Name of format? JAMBIB

Name of data structure? ENERGY3

Date created? 01/28/86

Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 2
6. May record be broken across pages (Y/N)? Y
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY BIBLIOGRAPHY ', LINE 4, COLUMN 6 - 54
4. @DATE, LINE SAME 3, COLUMN 55 - 62
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'
8. 'continued... ', LINE 61, COLUMN 63 - 75, ONLY RECBRK

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 6 - 75
2. ACCND, LINE 1
3. TITLE, LINE 2, UPPER, END ' '
4. AUTHOR, BEGIN '/by ', SEPARATE ' / ', END PUNCT '.'
5. PLACE, BEGIN ' _ ', END ':'
6. PUBLISH, END ', '
7. PUBDATE, END PUNCT '.'
8. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
9. @PARAGRAPH, LINE BOTTOM, INDENT 3
10. PHYSDS, END PUNCT '...', END ' '
11. SERIES, BEGIN '(', END ') '
12. DOCTYPE, LINE BOTTOM, INDENT 3, END ' '
13. ISBN, BEGIN 'ISBN ', END ' '
14. LANG, SEPARATE 'and ', END ' lang. '
15. DISTRIB, BEGIN 'Distribution: '
16. @LIST, LINE BOTTOM
17. 'Library: ', COLUMN 6 - 14, INDENT 0
18. LIBRARY, LINE SAME 17, COLUMN 15 - 19
19. CALLNO, LINE SAME 17, COLUMN 20 - 75
20. @PARAGRAPH, COLUMN 6 - 75
21. ABSTR, LINE BOTTOM + 1, BEGIN 'Abstract: '

Report: JAMAICA ENERGY BIBLIOGRAPHY - TITLE INDEX .

Format Name: JBIBTI

Description: The JAMAICA ENERGY BIBLIOGRAPHY contains titles about Jamaica, written in Jamaica, or by Jamaican authors. It consists of a main listing by accession number, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The TITLE INDEX is arranged alphabetically by title. Each record includes the title, accession number, library, and call number.

The report is titled "JAMAICA ENERGY BIBLIOGRAPHY - TITLE INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SELECT environment.
2. GET JAMBIB EQ (Y OR YES)
3. DISPLAY BY TITLE USING JBIBTI (to review the report).
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT BY TITLE USING JBIBTI

Notes

1. When you display or print the JAMAICA ENERGY BIBLIOGRAPHY - TITLE INDEX using JBIBTI, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.

JAMAICA ENERGY BIBLIOGRAPHY - TITLE INDEX

02/03/86

PAGE 1

An approach to energy planning methodology for the Caribbean: the Jamaican model
JED 000004 MME Info File (Power Resources)

Do-it-yourself solar crop dryer
JED 000008 MME Info File (Solar Energy)

Energy conservation in Jamaica - knowledge, attitude, practice: an evaluation of the public education programme of the Ministry of Mining and Energy
JED 000006 MME 620.9(729.2)

Energy costs and capital needs in oil-importing developing countries
JED 000002 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-28, 1979: the need for a national energy policy
JED 000009 MME Info File (Power Resources - Jamaica)

Jamaica - preliminary energy forecast 1978-1982: Terminal report - part 2
JED 000001 MME Info File (Power Resources - Jamaica)

Ministry of Mining, Energy and Tourism strategic management workshop: final brief
JED 000005 MME Info File (Management)

The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)

National energy policy programme
JED 000003 MME Info File (Energy Policy)

Name of format? JBIETI
Name of data structure? ENERGY3
Date created? 01/29/86
Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '
3. '-----
'JAMAICA ENERGY BIBLIOGRAPHY - TITLE INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '
8. '-----
'**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** ', LINE 63

E. LAYING OUT THE RECORDS

1. TITLE, COLUMN 8 - 75, INDENT -2
2. ACCNO, LINE BOTTOM, INDENT 0, BEGIN 'JED '
3. @LIST
4. LIBRARY, LINE SAME 2, COLUMN 25 - 29
5. CALLNO, LINE SAME 2, COLUMN 30 - 75

Report: JAMAICA ENERGY BIBLIOGRAPHY - AUTHOR INDEX

Format Name: JBIBAU

Description: The JAMAICA ENERGY BIBLIOGRAPHY contains titles about Jamaica, written in Jamaica, or by Jamaican authors. It consists of a main listing by accession number, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The AUTHOR INDEX is arranged alphabetically by author; within author, the records are arranged alphabetically by title. Each record includes the title, accession number, library, and call number. A record is repeated under each of the authors.

The report is titled "JAMAICA ENERGY BIBLIOGRAPHY - AUTHOR INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report:

1. Go to the SELECT environment.
2. GET JAMBIB EQ (Y OR YES)
3. DISPLAY BY AUTHOR EXPLODED USING JBIBAU (to review the report).
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT BY AUTHOR EXPLODED USING JBIBAU

Notes

1. When you display or print the JAMAICA ENERGY BIBLIOGRAPHY - AUTHOR INDEX using JBIBAU, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. Within each author, the secondary sort by title occurs automatically due to the order key specified in the ENERGY3 data structure.
3. If there are records with no authors, those records will appear at the beginning of the AUTHOR INDEX if the index is produced in the SELECT ENVIRONMENT.

ALETA, C. R.

The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)

ASHBY, WILLIAM R.

An approach to energy planning methodology for the Caribbean: the
Jamaican model
JED 000004 MME Info File (Power Resources)

BROWN, DON

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

GORDON, DEREK

Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy
JED 000006 MME 620.9(729.2)

JAMAICA INSTITUTE OF MANAGEMENT

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

JAMAICA. MINISTRY OF MINING AND ENERGY

Do-it-yourself solar crop dryer
JED 000008 MME Info File (Solar Energy)
Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy
JED 000006 MME 620.9(729.2)
The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)
National energy policy programme
JED 000003 MME Info File (Energy Policy)

JAMAICA. MINISTRY OF MINING, ENERGY AND TOURISM

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

ZIA MIAN, AHMAD

Energy costs and capital needs in oil-importing developing countries
JED 000002 MME Info File (Power Resources)
IEEE - seminar on unconventional sources of energy - March 27-28,
1979: the need for a national energy policy
JED 000009 MME Info File (Power Resources - Jamaica)
Jamaica - preliminary energy forecast 1978-1982: Terminal report -
part 2
JED 000001 MME Info File (Power Resources - Jamaica)

Name of format? JBIBAU
Name of data structure? ENERGY3
Date created? 01/29/86
Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 5
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '
3. 'JAMAICA ENERGY BIBLIOGRAPHY - AUTHOR INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '
8. @PARAGRAPH, LINE 63
9. '**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** '

E. LAYING OUT THE RECORDS

1. @INDEX, ONLY KEYTOP, UPPER, LINE BOTTOM + 1, COLUMN 6 - 75
2. @PARAGRAPH, LINE BOTTOM, INDENT -2, COLUMN 10 - 75
3. TITLE
4. @LIST
5. ACCNO, COLUMN 10 - 24, INDENT 0, BEGIN 'JED '
6. LIBRARY, LINE SAME 5, COLUMN 25 - 29
7. CALLNO, LINE SAME 5, COLUMN 30 - 75

101

Report: JAMAICA ENERGY BIBLIOGRAPHY - SUBJECT INDEX

Format Name: JBIBSUB

Description: The JAMAICA ENERGY BIBLIOGRAPHY contains titles about Jamaica, written in Jamaica, or by Jamaican authors. It consists of a main listing by accession number with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The SUBJECT INDEX is arranged alphabetically by subject; within each subject, the records are arranged alphabetically by title. Each record includes the title, accession number, library, and call number. A record is repeated under each of its subject terms.

The report is titled "JAMAICA ENERGY BIBLIOGRAPHY - SUBJECT INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SELECT environment.
2. GET JAMBIB EQ (Y OR YES)
3. DISPLAY BY DESCR EXPLODED USING JBIBSUB (to review the report).
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT BY DESCR EXPLODED USING JBIBSUB

Notes

1. When you display or print the JAMAICA ENERGY BIBLIOGRAPHY - AUTHOR INDEX using JBIBAU, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. Within each subject, the secondary sort by title occurs automatically due to the order key specified in the ENERGY3 data structure.

 JAMAICA ENERGY BIBLIOGRAPHY - SUBJECT INDEX 02/03/86 PAGE 1

ADMINISTRATIVE ASPECTS

An approach to energy planning methodology for the Caribbean: the
 Jamaican model

JED 000004 MME Info File (Power Resources)

CAPITAL COSTS

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

DEVELOPING COUNTRIES

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-28,
 1979: the need for a national energy policy

JED 000009 MME Info File (Power Resources - Jamaica)

ECONOMIC INDICATORS

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

ELECTRIC POWER

Jamaica - preliminary energy forecast 1978-1982: Terminal report -
 part 2

JED 000001 MME Info File (Power Resources - Jamaica)

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC POWER FACTOR

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC POWER PLANTS

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC UTILITY RATES

An approach to energy planning methodology for the Caribbean: the
 Jamaican model

JED 000004 MME Info File (Power Resources)

ENERGY CONSERVATION

Energy conservation in Jamaica - knowledge, attitude, practice: an
 evaluation of the public education programme of the Ministry of
 Mining and Energy

JED 000006 MME 620.9(729.2)

National energy policy programme

JED 000003 MME Info File (Energy Policy)

ENERGY CONSUMPTION

An approach to energy planning methodology for the Caribbean: the
 Jamaican model

JED 000004 MME Info File (Power Resources)

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES

1/19

Name of format? JBIBSUB
 Name of data structure? ENERGY3
 Date created? 01/29/86
 Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 5
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY BIBLIOGRAPHY - SUBJECT INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'
8. '**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** ', LINE 63

E. LAYING OUT THE RECORDS

1. @INDEX, ONLY KEYTOP, UPPER, LINE BOTTOM + 1, COLUMN 6 - 75
2. @PARAGRAPH, LINE BOTTOM, INDENT -2, COLUMN 10 - 75
3. TITLE
4. @LIST
5. ACCNO, COLUMN 10 - 24, INDENT 0, BEGIN 'JED '
6. LIBRARY, LINE SAME 5, COLUMN 25 - 29
7. CALLNO, LINE SAME 5, COLUMN 30 - 75

Report: SHORT SEARCH FORMAT

Format Name: SEARCH1

Description: SEARCH1 is a very brief format for printing search results. It is arranged alphabetically by title. Each record contains the title, author, accession number, library, and call number.

When using SEARCH1, Inmagic will prompt the operator for the name of the client and the search title. The response to each of these prompts should be less than 50 characters.

The list is headed "ENERGY INFORMATION CENTRE--ENQUIRY SEARCH"; those words appear at the top of each page. The date, the name of the client, and the search title appear on the first page only.

SEARCH1 automatically counts the number of titles in the search. The number of titles, the cost per title, and the total cost of the search appear on the last page.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to identify the appropriate records.
3. DISPLAY (without using a report format to review the search results).
4. Modify the search strategy as necessary.
5. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
6. PRINT USING SEARCH1 (enter the client's name and the search title, each up to 50 characters, as requested).

Notes

1. When you print search results using SEARCH1, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire search without pausing, you must modify the report format.
2. The cost per title is defined in the SEARCH1 report format. If you would like to change the cost per title, you must modify the report format.
3. ENERGY4 automatically sorts by title unless another sort is specified (due to the order key specified in the ENERGY3 data structure). Therefore, you may omit BY TITLE in display and print commands when sorting records by title in the SELECT environment. Include BY AUTHOR or BY ACCNO if you would like to display or print the search results in a specific order other than by title.

ENERGY INFORMATION CENTRE

ENQUIRY SEARCH

1

Date: 01/04/86
Client: Ms. Levy
Title: Selected Accession Numbers

AN APPROACH TO ENERGY SELF-SUFFICIENCY IN JAMAICAN RAW SUGAR FACTORIES
/ Osbourne, N. G.
JED 000017 MME Info File (Power Resources)

COMMONWEALTH SCIENCE COUNCIL WORKSHOP ON METEOROLOGICAL DATA FOR SOLAR
AND WIND ENERGY APPLICATIONS: ALTERNATIVE ENERGY PROJECTS IN
TRINIDAD AND TOBAGO/ Headley, Oliver
JED 000016 MME Info File (Solar Energy)

THE DILEMMA OF THE O.I.D.CS: ENERGY GROWTH AND DEVELOPMENT IN JAMAICA
1969 - 1978/ Persaud, Wilberne H./ Barnwell, David S.
JED 000022 MME Info File (Power Resources - Jamaica)

ENERGY AND OUR WORLD: AN INTEGRATED APPROACH TO THE STUDY OF ENERGY/
Sangster, Alfred W.
JED 000011 MME 620.91(02)

ENERGY CONSERVATION: A PRIMARY REQUIREMENT/ McLeod, Dave
JED 000018 MME Info File (Energy Conservation)

ENERGY CONSERVATION FOR JAMAICA. PART 1 : SUMMARY OF REPORT/ Fryke, W.
K./ Jamaica. Ministry of Mining and Energy
JED 000014 MME Info File (Energy Policy)

FUELWOOD PLANTATION RESEARCH IN JAMAICA: AN INTERIM REPORT/ Jamaica.
Ministry of Agriculture/ Thompson, Donald A.
JED 000015 MME Info File (Wood Fuels)

KINGSTON JAMAICA REFINERY FEEDSTOCK QUANTITY, QUALITY AND COST SURVEY/
Clay, R. F./ Jamaica. Petroleum Corporation of Jamaica/ United
Nations Development Programme
JED 000025 MME 665.5(729.2)

MAGGOTTY HYDRO-ELECTRIC DEVELOPMENT/ Jamaica Public Service Company
JED 000029 MME Info File (Electric Power)

NEW HORIZONS FOR ENERGY DEVELOPMENT IN JAMAICA: FINAL REPORT.
CONFERENCE ON PRELIMINARY ENERGY SECTOR ASSESSMENTS OF JAMAICA/
Jamaica. Ministry of Mining and Energy./ U.S. Agency for
International Development
JED 000028 MME 620.92(729.2)

A NOTE ON TRADITIONAL ECONOMIC ANALYSIS AND PETROLEUM ECONOMIES/ Zia
Mian, Ahmad
JED 000021 MME Info File (Petroleum Industry)

OIL EXPLORATION OPPORTUNITIES IN JAMAICA/
JED 000019 MME Info File (Petroleum)

ENERGY INFORMATION CENTRE

ENQUIRY SEARCH

2

ON THE CONVERSION OF SUGARCANE TO ALCOHOL/ Aleta, C.R./ Jamaica.
 Ministry of Mining and Energy
 JED 000010 MME P/662.754:633.61

THE POTENTIAL OF SOLAR ENERGY FOR JAMAICA/ Ashby, William R./ Jamaica.
 Ministry of Mining and Natural Resources
 JED 000012 MME Info File (Solar Energy)

A PROFITABILITY STUDY AND ECONOMIC ANALYSIS OF PETROLEUM RETAIL
 OPERATIONS IN JAMAICA/ Jamaica. Ministry of Mining and Natural
 Resources
 JED 000024 MME 665.58:658.8.031

PURSuing THE PROMISE OF PEAT: THE GLOBAL AND JAMAICAN SITUATION/ Wade,
 Barry A.
 JED 000020 MME Info File (Peat)

REPORT: ENERGY UTILIZATION IN THE TOURIST INDUSTRY/ Francis, A. A./
 Jamaica. Ministry of Mining and Energy
 JED 000026 MME 620.93:380.8(729.2)

A STUDY OF THE MODAL DISTRIBUTION OF NON-URBAN TRAFFIC IN JAMAICA:
 FINAL REPORT/ Delcanda International Limited/ Jamaica. Ministry of
 Public Utilities and Transport
 JED 000030 MME 620.98:656.1/.5(729.2)

A SURVEY OF ALTERNATIVE ENERGY POSSIBILITIES IN JAMAICA/ Ashby,
 William R.
 JED 000023 MME 620.91(729.2)

USAID/GOJ ESA PROJECT: FORESTRY RESOURCES: EXECUTIVE SUMMARY/ Jamaica.
 Ministry of Mining and Energy
 JED 000013 MME Info File (Forest Resources)

Number of titles: 20
 Cost per title: \$.00
 Search cost: \$.00

Name of format? SEARCH1
 Name of data structure? ENERGY3
 Date created? 10/14/85
 Date last modified? 01/04/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

1. CLIENT 'Enter name of client: '
2. SUBJECT 'Enter title of search: '

C. DEFINING CALCULATIONS

1. TOTALTI = COUNT (ACCNO)
2. UNITCOST = 00.00
3. COST = TOTALTI * UNITCOST

D. LAYING OUT THE PAGE

1. 'ENERGY INFORMATION CENTRE ', LINE 4, COLUMN 6 - 30
2. 'ENQUIRY SEARCH ', LINE 4, COLUMN 45 - 65
3. @PAGE, LINE 4, COLUMN 75 - 77
4. '*****', LINE 5, COLUMN 6 - 30
5. '*****', LINE 5, COLUMN 45 - 65

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 6 - 75
2. @DATE, LINE 1, BEGIN 'Date: ', ONLY REPTOP
3. CLIENT, LINE 2, BEGIN 'Client: ', ONLY REPTOP
4. SUBJECT, LINE 3, BEGIN 'Title: ', ONLY REPTOP
5. @PARAGRAPH, COLUMN 9 - 75, LINE BOTTOM + 1, INDENT -3
6. TITLE, UPPER, END '/'
7. AUTHOR, SEPARATE '/'
8. ACCNO, LINE + 1, INDENT 0, BEGIN 'JED '
9. @LIST
10. LIBRARY, LINE SAME 8, COLUMN 26 - 30
11. CALLNO, LINE SAME 8, COLUMN 31 - 75
12. @PARAGRAPH, COLUMN 6 - 75, ONLY REPBOT
13. TOTALTI, LINE + 2, ONLY REPBOT, BEGIN 'Number of titles: ', PICTURE '####'
14. UNITCOST, LINE BOTTOM, ONLY REPBOT, BEGIN 'Cost per title: \$ ', PICTURE '
15. COST, LINE BOTTOM + 1, ONLY REPBOT, BEGIN 'Search cost: \$ ', PICTURE '#'

Report: MEDIUM SEARCH FORMAT

Format Name: SEARCH2

Description: SEARCH2 is a medium-length format for printing search results. It is arranged alphabetically by title. Each record contains the title, author, imprint or source, physical description, document type, ISBN (if known), distribution restrictions, accession number, library, and call number.

When using SEARCH2, Inmagic will prompt the operator for the name of the client and the search title. The response to each of these prompts should be less than 50 characters.

The list is headed "ENERGY INFORMATION CENTRE--ENQUIRY SEARCH"; those words appear at the top of each page. The date, the name of the client, and the search title appear on the first page only.

SEARCH2 automatically counts the number of titles in the search. The number of titles, the cost per title, and the total cost of the search appear on the last page.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to identify the appropriate records.
3. DISPLAY (without using a report format to review the search results).
4. Modify the search strategy as necessary.
5. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
6. PRINT USING SEARCH2 (enter the client's name and the search title, each up to 50 characters, as requested)

Notes

1. When you print search results using SEARCH2, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. The cost per title is defined in the SEARCH2 report format. If you would like to change the cost per title, you must modify the report format.
3. ENERGY4 automatically sorts by title unless another sort is specified (due to the order key specified in the ENERGY3 data structure). Therefore, you may omit BY TITLE in display and print commands when sorting records by title in the SELECT environment.

ENERGY INFORMATION CENTRE

ENQUIRY SEARCH

1

Date: 01/04/86
 Client: Courtney Jackson
 Title: Electric Power

GENERATION OF ELECTRICITY FROM NEW AND RENEWABLE SOURCES OF ENERGY (NRSE): PAPERS PRESENTED / Seminar on Electricity Generation from New and Renewable Sources of Energy (NRSE) (1984: Antigua) _ Wildey, St. Michael; Technology and Energy Unit, Caribbean Development Bank, 1985.
 106p. :ill. 4 maps. Proceedings
 JED 000259 MME 621.311.25(729)

JAMAICA - PRELIMINARY ENERGY FORECAST 1978-1982: TERMINAL REPORT - PART 2 / Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1978.
 76p., graphs, tables. Report
 JED 000001 MME Info File (Power Resources - Jamaica)

JAMAICA'S NATIONAL ENERGY PLAN / Jamaica. Ministry of Mining and Energy. _ Kingston: Agency for Public Information, 1981.
 43p., diagrams, maps, tables. Monograph
 JED 000111 MME 620.98(729.2)

LEAST COST EXPANSION STUDY FINAL REPORT / Jamaica Public Service Company / Montreal Engineering Company. _ Montreal: Montreal Engineering Company, 1985.
 6 v. : illus, maps. Report Distribution: Restricted
 JED 000291 MME 621.311:620.98(729,2)

MINISTRY OF MINING AND ENERGY ELECTRIC SECTOR PLAN: NATIONAL ENERGY PLAN / Milgann Systems and Engineering / Jamaica. Ministry of Mining and Energy. _ Kingston: Milgann Systems and Engineering, 1984.
 1,300p., diagrams, graphs, maps, refs, tables. Monograph
 Distribution: Limited
 JED 000108 MME 620.98:621.311(729.2)

THE NATIONAL ELECTRICITY DEMAND OF JAMAICA / Aleta, C. R. / Jamaica. Ministry of Mining and Energy. _ Kingston: Ministry of Mining and Energy, 1981.
 [3], 13, [15]p, 1 map, tables, 7 refs. Unpublished Report
 JED 000007 MME 620.93:621.311(729.2)

NEW HORIZONS FOR ENERGY DEVELOPMENT IN JAMAICA: FINAL REPORT. CONFERENCE ON PRELIMINARY ENERGY SECTOR ASSESSMENTS OF JAMAICA / Jamaica. Ministry of Mining and Energy. / U.S. Agency for International Development. _ Kingston, Jamaica: Ministry of Mining and Energy, 1980?
 112p., graphs, tables. Report Distribution: Limited
 JED 000028 MME 620.92(729.2)

Number of titles: 7
 Cost per titles: \$.00
 Search cost: \$.00

Name of format? SEARCH2
Name of data structure? ENERGY3
Date created? 01/01/80
Date last modified? 01/04/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

1. CLIENT 'Enter name of client: '
2. SUBJECT 'Enter title of search: '

C. DEFINING CALCULATIONS

1. TOTALTI = COUNT (ACCNO)
2. UNITCOST = 00.00
3. COST = TOTALTI * UNITCOST

D. LAYING OUT THE PAGE

1. 'ENERGY INFORMATION CENTRE ', LINE 4, COLUMN 6 - 30
2. 'ENQUIRY SEARCH ', LINE 4, COLUMN 45 - 65
3. @PAGE, LINE 4, COLUMN 75 - 77
4. '*****', LINE 5, COLUMN 6 - 30
5. '*****', LINE 5, COLUMN 45 - 65

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 6 - 75
2. @DATE, LINE 1, BEGIN 'Date: ', ONLY REPTOP
3. CLIENT, LINE 2, BEGIN 'Client: ', ONLY REPTOP
4. SUBJECT, LINE 3, BEGIN 'Title: ', ONLY REPTOP
5. TITLE, LINE BOTTOM + 1, UPPER, END ' / '
6. AUTHOR, SEPARATE ' / ', END PUNCT '.'
7. PLACE, BEGIN ' _ ', END ':'
8. PUBLISH, END ','
9. PUBDATE, END PUNCT '.'
10. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
11. PHYSDS, LINE BOTTOM, INDENT 3, END PUNCT '...', END ' '
12. DOCTYPE, END ' '
13. ISBN, BEGIN 'ISBN ', END ' '
14. DISTRIB, BEGIN 'Distribution: '
15. ACCNO, LINE BOTTOM, INDENT 0, BEGIN 'JED ', COLUMN 9 - 21
16. @LIST
17. LIBRARY, LINE SAME 15, COLUMN 24 - 28
18. CALLNO, LINE SAME 15, COLUMN 29 - 75
19. @PARAGRAPH, COLUMN 6 - 75, ONLY REPBOT
20. TOTALTI, LINE + 2, ONLY REPBOT, BEGIN 'Number of titles: ', PICTURE '##'
21. UNITCOST, LINE BOTTOM, ONLY REPBOT, BEGIN 'Cost per titles: \$ ', PICTURE '##'
22. COST, LINE BOTTOM + 1, ONLY REPBOT, BEGIN 'Search cost: \$ ', PICTURE '##'

177

Report: FULL SEARCH FORMAT

Format Name: SEARCH3

Description: SEARCH3 is the longest format for printing search results. It is arranged alphabetically by title. Each record includes the accession number, title, author, imprint or source, physical description, series, document type, ISBN (if known), language (if other than English), distribution restrictions, accession number, library, call number, and abstract.

When using SEARCH3, Inmagic will prompt the operator for the name of the client and the search title. The response to each of these prompts should be less than 50 characters.

The list is headed "ENERGY INFORMATION CENTRE--ENQUIRY SEARCH"; those words appear at the top of each page. The date, the name of the client, and the search title appear on the first page only.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to identify the appropriate records.
3. DISPLAY (without using a report format to review the search results).
4. Modify the search strategy as necessary.
5. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
6. PRINT USING SEARCH3 (enter the client's name and the search title, each up to 50 characters, as requested).

Notes

1. When you print search results using SEARCH3, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. The cost per title is defined in the SEARCH3 report format. If you would like to change the cost per title, you must modify the report format.
3. ENERGY4 automatically sorts by title unless another sort is indicated (due to the order key specified in the ENERGY3 data structure). Therefore, you may omit BY TITLE in display and print commands when sorting records by title in the SELECT environment.

ENERGY INFORMATION CENTRE

ENQUIRY SEARCH

1

Date: 02/04/86
Client: Edwards, L.J.
Title: LIGHTING

000227

CONSTRUCTION MANUAL: ENERGY CONSERVATION FOR BUILDINGS IN JAMAICA /by
Dubin-Bloome Associates, Partners / Jamaica. Ministry of Mining and
Energy. _ Kingston: Ministry of Mining and Energy, 1983.
250p., diagrams, graphs, tables.
Manual

Library: MME 620.93:721(729.2)

Abstract: The objective of this manual is to give guidelines for implementing a Jamaican energy management programme. These include the production of an Energy Standards Document for the design of new buildings and retrofit of existing ones to reduce peak electricity demand in public and private sector; tools to produce an energy analysis and design document; cost/benefit analyses of specific energy conservation measures. Sections deal with the potentials and priorities of energy use by building type, solar radiation principles, reducing building load, selection of site, climate. Among the recommendations for Jamaica are (1) provision for energy conservation to be incorporated into the building code; prescriptive and performance standards for new and existing buildings; survey of all buildings over 30,000 sq. ft., provision of property tax incentive for the use of solar devices. Indicates statistical data, references and glossary.

000210

ENERGY EFFICIENCY IN JAMAICAN HOTELS: ENERGY CONSERVATION WORKSHOP,
OCHO RIOS, JAMAICA, OCT. 12, 1983 /by Jamaica. Ministry of Mining
and Energy. _ Kingston: Ministry of Mining and Energy, 1983.
178p., diagrams, tables.

Manual Distribution: Limited

Library: MME 620.93:64.024

Abstract: This manual brings together several papers on energy conservation. Includes information on guidelines for an energy conservation survey; typical energy conservation investment opportunities for the hotel industries; conservation techniques in air conditioning; lighting; industrial fuel conservation; fundamentals of boiler efficiency; reducing the annual requirements for domestic and service hot water; operations and maintenance opportunities for energy conservation in Jamaican hotels. Includes a Steam Cost Chart, table on the annual energy cost for leak, leaking steam trap discharge rate.

000036

HANDBOOK ON ENERGY MANAGEMENT FOR THE JAMAICAN ENERGY COORDINATOR /by
Nelson, Lilieth / Jamaica. Ministry of Mining and Energy. _ Kingston:
Ministry of Mining and Energy, 1984.

continued...

ENERGY INFORMATION CENTRE

ENQUIRY SEARCH

2

57p., illus.

Manual

Library: MME 620.93(729.2)

Abstract: Designed to assist the planning, organization and control of a locally effective energy conservation programme. Materials presented are drawn from reports and information collected largely from publications of the Ministry of Mining and Energy as well as written and audio-visual materials of international importance. The main elements of the Energy Manager's role are outlined and concludes with those elements and principles necessary to successful energy management. Illustrated. Includes references and data collection forms.

000106

AN INVESTIGATION OF THE NEED FOR INCENTIVES TO ENCOURAGE THE DEVELOPMENT OF ENERGY CONSERVATION IN JAMAICA: A THESIS IN ENERGY MANAGEMENT AND POLICY /by Marston, Steve Douglas. 1984.

189p, graphs, tables, refs.

Thesis

Library: MME 620.92(729.2)

Abstract: Analyses the potential short-term impact of proposed energy solutions. The study focuses on energy conservation in the residential, industrial and commercial sectors. Financial and cost-benefit analyses are conducted to determine the viability of selected energy technologies to public and private investors. Includes solar water heating, bagasse burning, bunker c conversion, energy efficient lighting, and energy efficient refrigeration. Discussions note the institutional relations between Petroleum Corporation of Jamaica (PCJ), Scientific Research Council (SRC), the Ministry of Mining and Energy (MME) and other energy-related institutions. Recommendations are presented and conclude mainly that there is no need for incentives for the six technologies discussed with the exception of solar water heating. Appendices present economic evaluations.

000110

JAMAICAN ENERGY AUDITOR'S HANDBOOK /by Jamaica. Ministry of Mining and Energy. _ Kingston: Ministry of Mining and Energy, 1983.

2 vols., diagrams, tables.

Manual

Library: MME 620.93(729.2)

Abstract: Presents a field-tested approach to identifying, analysing and recommending options for reducing operational cost and energy consumption in industry. Reviews energy use and conservation and provides a step-by-step methodology for assessing and improving year-round energy performance. Forms, charts and monographs are provided. Includes glossary.

Name of format? SEARCH3
Name of data structure? ENERGY3
Date created? 01/28/86
Date last modified? 01/04/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 2
6. May record be broken across pages (Y/N)? Y
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

1. CLIENT 'Enter name of client: '
2. SUBJECT 'Enter title of search: '

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. 'ENERGY INFORMATION CENTRE ', LINE 4, COLUMN 6 - 30
2. 'ENQUIRY SEARCH ', LINE 4, COLUMN 45 - 65
3. @PAGE, LINE 4, COLUMN 75 - 77
4. '*****', LINE 5, COLUMN 6 - 30
5. '*****', LINE 5, COLUMN 45 - 65
6. 'continued...', LINE 61, COLUMN 63 - 75, ONLY RECBRK

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 6 - 75
2. @DATE, LINE 1, BEGIN 'Date: ', ONLY REPTOP
3. CLIENT, LINE 2, BEGIN 'Client: ', ONLY REPTOP
4. SUBJECT, LINE 3, BEGIN 'Title: ', ONLY REPTOP
5. ACCNO, LINE BOTTOM + 1
6. TITLE, LINE BOTTOM, UPPER, END ' '
7. AUTHOR, BEGIN '/by ', SEPARATE '/ ', END PUNCT '.'
8. PLACE, BEGIN ' _ ', END ':'
9. PUBLISH, END ','
10. PUBDATE, END PUNCT '.'
11. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
12. @PARAGRAPH, LINE BOTTOM, INDENT 3
13. PHYSDS, END PUNCT '...', END ' '
14. SERIES, BEGIN '(', END ') '
15. DOCTYPE, LINE BOTTOM, INDENT 3, END ' '
16. ISBN, BEGIN 'ISBN ', END ' '
17. LANG, SEPARATE 'and ', END ' lang. '
18. DISTRIB, BEGIN 'Distribution: '
19. @LIST, LINE BOTTOM
20. 'Library: ', COLUMN 6 - 14, INDENT 0
21. LIBRARY, LINE SAME 20, COLUMN 15 - 19
22. CALLNO, LINE SAME 20, COLUMN 20 - 75
23. @PARAGRAPH, COLUMN 6 - 75
24. ABSTR, LINE BOTTOM + 1, BEGIN 'Abstract: '

Report: NEW ACCESSIONS LISTING

Format Name: NEWACCTI

Description: The NEW ACCESSIONS LISTING is a periodic list of the new titles accessioned by the library. It is arranged in broad subject categories; within each subject category, records are arranged alphabetically by title. Each record contains the title, author, imprint or source, physical description, document type, ISBN (if known), distribution restrictions, accession number, library, and call number. A record may appear under more than one subject category.

The list is titled "ENERGY INFORMATION CENTRE - NEW ACCESSIONS"; the title, the date, and the page number appear at the top of each page.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to gather the appropriate records for the report. For example:

```
GET DATEIN FROM "Feb. 1, 1986" TO "Feb. 28, 1986".
  (to get all the reports entered in February 1986) [N.B.:
  Dates must be enclosed in quotes in a search command.]
```

If all the records so gathered are to appear in the report "as is", proceed to step 13. If, however, some are to be deleted, or some others should be added to the group, it will be easiest to set up a temporary data file to handle the production of the list. That empty data file has already been set up; it is called ACCLIST. Steps 3 through 9 will transfer the records selected from ENERGY4 to ACCLIST.

3. After selecting the appropriate records, write them into a text file:

```
WRITE IN xxxxxxxx.txt (where xxxxxxxx is up to 8
  alphanumeric characters and the extension is always txt.)
  [N.B.: Be sure to use a filename that is unique, i.e., not
  used elsewhere in Inmagic.]
```

4. Go to the main Inmagic menu. Enter C to change data files. Enter the name of the temporary data file: ACCLIST
5. Go to the MAINTAIN environment.
6. Use the ADD feature to add records in batch mode.
7. Enter the name of the incoming text file: xxxxxxxx.txt (as named in step 3, above).

8. Replace existing records (Y/N)? Enter Y. Inmagic will display on the screen the accession numbers of the records that are added. This may take some time. At the end, press return to continue.
9. As necessary, return to ENERGY4 and repeat steps 1 through 8 until all the records that you need for NEWACCTI are in ACCLIST.
10. Review the records in ACCLIST; delete any records that should not appear in the list; modify any records that should be changed.
11. Go to the SELECT environment.
12. GET ACCNO GT 000000 (to get all the records in ACCLIST).
13. DISPLAY BY BIBHEAD EXPLODED USING NEWACCTI (to review the report).
14. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
15. PRINT BY BIBHEAD EXPLODED USING NEWACCTI

After the Report is Printed

1. If you have made any changes/corrections to the records in ACCLIST that should be transferred to ENERGY4, you can rewrite the corrected titles back into ENERGY4. While in ACCLIST,

```

GET ACCNO GT 000000 (to get all the records in the file)
WRITE IN "xxxxxxx.txt" (use the same instructions as in
    step 3, above, but use a different name)
Go to the main menu
Enter C to change files
Enter the name of the data file: ENERGY4
Go to the MAINTAIN environment
Use the ADD feature to enter the records from the
    incoming file
Enter xxxxxx.txt (as defined above)
Replace existing records (Y/N)? Enter Y

```

2. When you are done with ACCLIST, delete the file. Go out of Inmagic, into the main directory. Enter

```
ERASE \INMAGIC\ACCLIST
```

Also, delete the files you have created. Enter

```
ERASE INMAGIC\xxxxxxx.txt (and repeat for each file you
    created)
```

3. Redefine a new file called ACCLIST so it will be ready for the next new accessions list:

Go to the DEFINE environment
Choose F to define file parameters
The name of the new data file is ACCLIST
The data structure is ENERGY3
In response to the disk space questions, press RETURN
Accept the new file parameters

Notes

1. When you display or print records using NEWACCTI, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.

2. Within each subject category, the secondary sort by title occurs automatically due to the order key specified in the ENERGY3 data structure.

3. If certain records appear at the beginning of NEWACCTI without a BIBHEAD, it probably is because there is no BIBHEAD listed in the record. Add BIBHEADS as necessary and rerun the report.

4. NEWACCTI also can be used to print a list arranged by author. The command would be

PRINT BY AUTHOR EXPLODED USING NEWACCTI

Records with no authors will appear at the beginning of the report.

ENERGY INFORMATION CENTRE - NEW ACCESSIONS - 02/03/86 1

ADMINISTRATIVE ASPECTS

AN APPROACH TO ENERGY PLANNING METHODOLOGY FOR THE CARIBBEAN: THE JAMAICAN MODEL / Ashby, William R. 1980.

21p. Conference Paper

JED 000004 MME Info File (Power Resources)

CAPITAL COSTS

ENERGY COSTS AND CAPITAL NEEDS IN OIL-IMPORTING DEVELOPING COUNTRIES / Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1977?

32p., 6 tables, 9 refs. Unpublished Paper

JED 000002 MME Info File (Power Resources)

DEVELOPING COUNTRIES

ENERGY COSTS AND CAPITAL NEEDS IN OIL-IMPORTING DEVELOPING COUNTRIES / Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1977?

32p., 6 tables, 9 refs. Unpublished Paper

JED 000002 MME Info File (Power Resources)

IEEE - SEMINAR ON UNCONVENTIONAL SOURCES OF ENERGY - MARCH 27-28, 1979: THE NEED FOR A NATIONAL ENERGY POLICY / Zia Mian, Ahmad. 1979.

179., tables. Conference Paper

JED 000009 MME Info File (Power Resources - Jamaica)

ECONOMIC INDICATORS

ENERGY COSTS AND CAPITAL NEEDS IN OIL-IMPORTING DEVELOPING COUNTRIES / Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1977?

32p., 6 tables, 9 refs. Unpublished Paper

JED 000002 MME Info File (Power Resources)

ELECTRIC POWER

JAMAICA - PRELIMINARY ENERGY FORECAST 1978-1982: TERMINAL REPORT - PART 2 / Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural Resources, 1978.

76p., graphs, tables. Report

JED 000001 MME Info File (Power Resources - Jamaica)

Name of format? NEWACCTI

Name of data structure? ENERGY3

Date created? 01/01/80

Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. 'ENERGY INFORMATION CENTRE - NEW ACCESSIONS - ', LINE 4, COLUMN 10 - 54
2. @DATE, LINE SAME 1, COLUMN 55 - 62
3. @PAGE, LINE SAME 1, COLUMN 68 - 75

E. LAYING OUT THE RECORDS

1. @INDEX, ONLY KEYTOP, LINE + 2, UPPER, COLUMN 8 - 75
2. @PARAGRAPH, COLUMN 10 - 75, LINE BOTTOM + 1
3. TITLE, UPPER, END ' / '
4. AUTHOR, SEPARATE ' / ', END PUNCT '.'
5. PLACE, BEGIN ' _ ', END ':'
6. PUBLISH, END ','
7. PUBDATE, END PUNCT '.'
8. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
9. PHYSDS, LINE BOTTOM, INDENT 3, END PUNCT '...', END ' '.
10. DOCTYPE, END ' '.
11. ISBN, BEGIN 'ISBN ', END ' '.
12. DISTRIB, BEGIN 'Distribution: '
13. ACCNO, LINE BOTTOM, INDENT 0, BEGIN 'JED ', COLUMN 13 - 25
14. @LIST
15. LIBRARY, LINE SAME 13, COLUMN 26 - 30
16. CALLNO, LINE SAME 13, COLUMN 31 - 75

Report: CATALOGUE CARDS FOR TITLES

Format Name: CATCARDT

Description: CATCARDT is used to produce the main title catalogue cards. The title card is the only catalogue card that will show the subject tracings.

Each card includes the call number, title, author, imprint or source, physical description, series, notes, ISBN (if known), distribution restrictions, accession number, and MME number, all as available. The subject tracings appear in a paragraph following the bibliographic details. If the information runs onto two cards, a continuation message is included on the bottom of the first card, and the title and call number reappear on the top of the second card.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to gather the records for which you want to produce catalogue cards. Choose by accession number, date entered, or randomly, as necessary. [N.B.: You only need catalogue cards for those documents that are in the MME library, not for those documents that are located only in other network libraries.] Examples:

```
GET LIBRARY EQ (MME OR MMET) AND ACCNO FROM 000144 TO 000151
  (to get a specific group of accession numbers)
GET LIBRARY EQ (MME OR MMET) AND DATEIN EQ "Mar. 2, 1986" (to
  get all the records entered on a certain date) [N.B.:
  Dates must be enclosed in quotes in a search command.]
```

3. Prepare the printer; insert the continuous-feed cards, align the top of form, and make sure the ONLINE button is lighted.
4. PRINT BY TITLE USING CATCARDT

Notes

1. When you print catalogue cards using CATCARDT, Inmagic will stop at the bottom of each card and ask if you want to continue printing. If you would like to print a batch of cards without pausing, you must modify the report format.
2. Don't forget to run the author and subject cards using CATCARD (see separate instructions).

ENERGY CONSERVATION IN JAMAICA -
KNOWLEDGE, ATTITUDE, PRACTICE: AN

620.9(729.2)

Energy conservation in Jamaica -
knowledge, attitude, practice: an evaluation
of the public education programme of the
Ministry of Mining and Energy /by Gordon,
Derek / Jamaica. Ministry of Mining and
Energy. - Kingston: Ministry of Mining and
Energy, 1980.

57p., 30 tables. Distribution: Limited
JED 000006

.../2

ENERGY CONSERVATION IN JAMAICA - - 2 -
KNOWLEDGE, ATTITUDE, PRACTICE: AN

620.9(729.2)

1. Survey 2. Energy Conservation
3. Jamaica 4. Public Information Campaigns
5. Evaluation

ENERGY COSTS AND CAPITAL NEEDS IN
OIL-IMPORTING DEVELOPING COUNTRIES

Info File (Power Resources)

Energy costs and capital needs in
oil-importing developing countries /by Iia
Mian, Ahmad. - Kingston: Ministry of Mining
and Natural Resources, 1977?

32p., 6 tables, 9 refs.
JED 000002

1. Energy Consumption 2. Capital Costs
3. Jamaica 4. Economic Indicators
5. Developing Countries

Name of format? CATCARDT
 Name of data structure? ENERGY3
 Date created? 01/30/86
 Date last modified? 02/06/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 18
2. Top margin (number of lines)? 4
3. Bottom margin (number of lines)? 4
4. Maximum page width (number of characters)? 50
5. Number of blank lines between records? 15
6. May record be broken across pages (Y/N)? Y
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @INDEX, UPPER, LINE 1, COLUMN 3 - 43, MAXLINE + 1
2. @LIST
3. CALLNO, LINE 4, COLUMN 3 - 45, MAXLINE 4
4. '.../2 ', LINE 16, COLUMN 40 - 45, ONLY RECBRK
5. '- 2 - ', ONLY RECBRK, LINE 1, COLUMN 44 - 50

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 3 - 47
2. TITLE, LINE 1, INDENT 3, END ' '
3. AUTHOR, BEGIN '/by ', SEPARATE ' /', END PUNCT '.'
4. PLACE, BEGIN ' - ', END ':'
5. PUBLISH, END ', '
6. PUBDATE, END PUNCT '.'
7. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
8. PHYSDS, LINE BOTTOM, INDENT 3, END PUNCT '.', END ' '
9. SERIES, BEGIN '(', END ') '
10. NOTES, END PUNCT ' . '
11. ISBN, BEGIN 'ISBN ', END ' '
12. DISTRIB, BEGIN 'Distribution: '
13. ACCNO, LINE BOTTOM, BEGIN 'JED ', END ' '
14. MMENO, BEGIN 'MME '
15. DESCR, LINE BOTTOM + 1, NUMBER

Report: CATALOGUE CARDS FOR AUTHORS AND SUBJECTS

Format Name: CATCARD

Description: CATCARD is used to produce the author and subject catalogue cards. The author and subject cards will not show the tracings.

Each card includes the indexed term, call number, title, author, imprint or source, physical description, series, notes, ISBN (if known), distribution restrictions, accession number, and MME number. If the information runs onto two cards, a continuation message is included at the bottom of the first card, and the indexed term and call number reappear on the top of the second card. A card is produced for each author and each subject term of the record.

How To Run Report

1. Go to the SELECT environment.
2. Use the GET command to gather the records for which you want to produce catalogue cards. Choose by accession number, date entered, or randomly, as necessary. [N.B.: You only need catalogue cards for those documents that are in the MME library, not for those documents that are located only in other network libraries.] Examples:

```
GET LIBRARY EQ (MME OR MMET) AND ACCNO FROM 000144 TO 000151
  (to get a specific group of accession numbers)
GET LIBRARY EQ (MME OR MMET) AND DATEIN EQ "Mar. 2, 1986" (to
  get all the records entered on a certain date) [N.B.:
  Dates must be enclosed in quotes in a search command.]
```

3. Prepare the printer; insert the continuous-feed cards, align the top of form, and make sure that the ONLINE button is lighted.
4. PRINT BY AUTHOR EXPLODED USING CATCARD
5. When all the author cards are printed,


```
PRINT BY DESCR EXPLODED USING CATCARD
```

Notes

1. When you print catalogue cards using CATCARD, Inmagic will stop at the bottom of each card and ask if you want to continue printing. If you would like to print a group of cards without pausing, you must modify the report format.
2. Don't forget to run the title cards using CATCARDT (see separate instructions).

3. It is best to run catalogue cards for a group of records rather than for single records. The resulting cards will be printed in alphabetical order by the indexed term, thereby eliminating the need to alphabetize the group of cards before filing.

4. The author and subject cards could be produced in merged alphabetical order in the SORT environment. The SORT environment, however, works on the entire file, as opposed to a SELECTED group of records. Therefore, to use this feature, you would have to set up a temporary file (as in the preparation of NEWACCTI) to hold those records for which you need catalog cards. Using the temporary file:

```
Go to the SORT environment
SORT DESCR
MERGE AUTHOR
Prepare the printer
PRINT USING CATCARD
```


COMBUSTION

Thermal storage-mass enhances woodstove combustion and reduces pollution /by Pilcher, K. R. / Ghajar, A. J. _ IN Energy 10:10 (1985) 1151-1157. JED 000287

ELECTRIC POWER SYSTEM

621.311:620.98(729,2) Least cost expansion study final report /by Jamaica Public Service Company / Montreal Engineering Company. _ Montreal: Montcal Engineering Company, 1985. 6 v. : illus, maps. Vol. 1 : Summary Vol. 11 : Master plan Vol. 11-A : Master plan (Appendices) Vol. 111 : Inventory and evaluation of existing generation and transmission facilities Vol. 1V : Power market survey Vol. 1V-A : Power market survey (Appendices) Distribution: Restricted .../2

ELECTRIC POWER SYSTEM

- 2 -

621.311:620.98(729,2) JED 000291 MME 4132 4131 4133 4134 4135 4136

Name of format? CATCARD
 Name of data structure? ENERGY3
 Date created? 01/30/86
 Date last modified? 02/06/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 18
2. Top margin (number of lines)? 4
3. Bottom margin (number of lines)? 4
4. Maximum page width (number of characters)? 50
5. Number of blank lines between records? 15
6. May record be broken across pages (Y/N)? Y
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @INDEX, UPPER, LINE 1, COLUMN 3 - 43, MAXLINE + 1
2. @LIST
3. CALLNO, LINE 4, COLUMN 3 - 45, MAXLINE 4
4. '.../2 ', LINE 16, COLUMN 40 - 45, ONLY RECBRK
5. '- 2 - ', ONLY RECBRK, LINE 1, COLUMN 44 - 50

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 3 - 47
2. TITLE, LINE 1, INDENT 3, END ' '
3. AUTHOR, BEGIN '/by ', SEPARATE '/ ', END PUNCT '.'
4. PLACE, BEGIN ' _ ', END ':'
5. PUBLISH, END ', '
6. PUBDATE, END PUNCT '.'
7. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
8. PHYSDES, LINE BOTTOM, INDENT 3, END PUNCT '...', END ' '
9. SERIES, BEGIN '(', END ') '
10. NOTES, END PUNCT '.'
11. ISBN, BEGIN 'ISBN ', END ' '
12. DISTRIB, BEGIN 'Distribution: '
13. ACCNO, LINE BOTTOM, BEGIN 'JED ', END ' '
14. MMENO, BEGIN 'MME '

Report: BOOK CATALOGUE - MAIN ACCESSION NUMBER LISTING

Format Name: BCATACC

Description: The BOOK CATALOGUE provides offline access to the titles in the Jamaica Energy Database. It consists of a main listing in accession number order, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The MAIN LISTING is arranged in accession number order. Each record includes the accession number, title, author, imprint or source, physical description, series, notes, document type, ISBN (if known), language (if other than English), distribution restrictions, library, and call number.

The list is titled "JAMAICA ENERGY DATABASE - ACCESSIONS THROUGH DATE"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SORT environment.
2. SORT ACCNO
3. DISPLAY USING BCATACC (to review the report)
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT USING BCATACC

Notes

1. When you print the BOOK CATALOGUE using BCATACC, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. If the BOOK CATALOGUE is kept in a loose-leaf binder, it will not be necessary to rerun the entire MAIN ACCESSION NUMBER LISTING when producing updates. Instead, you can start the updated report with the accession number that follows the last accession number of the previous report. In that case, in the SORT environment, the commands would be:

SORT ACCNO

Prepare the printer

PRINT USING BCATACC FROM xxxxxx (where xxxxxx is the new accession number that you want to start with)

The resulting pages can be inserted in the proper place in the loose-leaf binder. [N.B.: When updating the indexes to the BOOK CATALOGUE, however, you must still rerun the indexes on the entire file. The new indexes will totally replace the old indexes.]

3. It is a good idea to run the indexes to the BOOK CATALOGUE at the same time as the MAIN ACCESSION NUMBER LISTING to ensure that the file is exactly the same (i.e., that no other records are added, deleted, etc.).

4. The MAIN ACCESSION NUMBER LISTING of the BOOK CATALOGUE can also be produced in the SELECT environment. In that environment, the commands would be:

```
GET ACCNO GT 000000 (to get the whole file)
DISPLAY BY ACCNO USING BCATACC (to review the report)
Prepare the printer
PRINT BY ACCNO USING BCATACC
```

JAMAICA ENERGY DATABASE - ACCESSIONS THROUGH 02/03/86PAGE 1

000001

JAMAICA - PRELIMINARY ENERGY FORECAST 1973-1982: TERMINAL REPORT -
PART 2 /by Zia Mian, Ahmad. _ Kingston: Ministry of Mining and
Natural Resources, 1978.

76p., graphs, tables.

Report

Library: MME Info File (Power Resources - Jamaica)

000002

ENERGY COSTS AND CAPITAL NEEDS IN OIL-IMPORTING DEVELOPING COUNTRIES
/by Zia Mian, Ahmad. _ Kingston: Ministry of Mining and Natural
Resources, 1977?

32p., 6 tables, 9 refs.

Unpublished Paper

Library: MME Info File (Power Resources)

000003

NATIONAL ENERGY POLICY PROGRAMME /by Jamaica. Ministry of Mining
and Energy. 1980.

19p. (Ministry Paper No. 8)

Ministry Paper

Library: MME Info File (Energy Policy)

000004

AN APPROACH TO ENERGY PLANNING METHODOLOGY FOR THE CARIBBEAN: THE
JAMAICAN MODEL /by Ashby, William R. 1980.

21p. Paper prepared for CARICOM workshop on Energy Assessment
Needs in the Caribbean, Kingston, Jamaica, May 15-16, 1980.

Conference Paper

Library: MME Info File (Power Resources)

000005

MINISTRY OF MINING, ENERGY AND TOURISM STRATEGIC MANAGEMENT
WORKSHOP:FINAL BRIEF /by Brown, Don / Jamaica Institute of
Management / Jamaica. Ministry of Mining, Energy and Tourism.

15p.

Unpublished Paper Distribution: Restricted

Library: MME Info File (Management)

000006

ENERGY CONSERVATION IN JAMAICA - KNOWLEDGE, ATTITUDE, PRACTICE: AN
EVALUATION OF THE PUBLIC EDUCATION PROGRAMME OF THE MINISTRY OF MINING
AND ENERGY /by Gordon, Derek / Jamaica. Ministry of Mining and
Energy. _ Kingston: Ministry of Mining and Energy, 1980.

57p., 30 tables.

Report Distribution: Limited

Library: MME 620.9(729.2)

JAMAICA ENERGY DATABASE - ACCESSIONS THROUGH 02/03/86

PAGE 2

000007

THE NATIONAL ELECTRICITY DEMAND OF JAMAICA /by Aleta, C. R. /
Jamaica. Ministry of Mining and Energy. _ Kingston: Ministry of
Mining and Energy, 1981.

131, 13, [15]p, 1 map, tables, 7 refs.

Unpublished Report English lang.

Library: MME 620.93:621.311(729.2)

000008

DO-IT-YOURSELF SOLAR CROP DRYER /by Jamaica. Ministry of Mining and
Energy. _ Kingston: Ministry of Mining and Energy, 1981?

26p., diags.

Manual

Library: MME Info File (Solar Energy)

000009

IEEE - SEMINAR ON UNCONVENTIONAL SOURCES OF ENERGY - MARCH 27-28,
1979: THE NEED FOR A NATIONAL ENERGY POLICY /by Zia Mian, Ahmad.
1979.

179., tables.

Conference Paper

Library: MME Info File (Power Resources - Jamaica)

Number of titles: 9

Name of format? BCATACC
 Name of data structure? ENERGY3
 Date created? 01/28/86
 Date last modified? 02/03/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 6
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 1
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

1. TOTALTI = count (accno)

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY DATABASE - ACCESSIONS THROUGH ', LINE 4, COLUMN 6 - 54
4. @DATE, LINE SAME 3, COLUMN 51 - 62
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'

E. LAYING OUT THE RECORDS

1. @PARAGRAPH, COLUMN 6 - 75
2. ACCNO, LINE 1
3. TITLE, LINE 2, UPPER, END ' '
4. AUTHOR, BEGIN '/by ', SEPARATE ' / ', END PUNCT '.'
5. PLACE, BEGIN ' ', END ':'
6. PUBLISH, END ' ,'
7. PUBDATE, END FUNCT '.'
8. SOURCE, BEGIN ' _ IN ', END PUNCT '.'
9. PHYSDS, LINE BOTTOM, INDENT 3, END PUNCT ' ', END ' '
10. SERIES, BEGIN '(', END ') '
11. NOTES, END FUNCT '.'
12. DOCTYPE, LINE BOTTOM, INDENT 3, END ' '
13. ISBN, BEGIN 'ISBN ', END ' '
14. LANG, SEPARATE 'and ', END ' lang. '
15. DISTRIB, BEGIN 'Distribution: '
16. @LIST, LINE BOTTOM
17. 'Library: ', COLUMN 6 - 14, INDENT 0
18. LIBRARY, LINE SAME 17, COLUMN 15 - 19
19. CALLNO, LINE SAME 17, COLUMN 20 - 75
20. @PARAGRAPH, LINE + 2, COLUMN 6 - 75
21. TOTALTI, ONLY REPBOT, BEGIN 'Number of titles: ', PICTURE '####'

Report: BOOK CATALOGUE - TITLE INDEX

Format Name: BCATTI

Description: The BOOK CATALOGUE provides offline access to the titles in the Jamaica Energy Database. It consists of a main listing in accession number order, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The TITLE INDEX is arranged alphabetically by title. Each record includes the title, accession number, library, and call number.

The list is titled "JAMAICA ENERGY DATABASE - TITLE INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SORT environment.
2. SORT TITLE
3. DISPLAY USING BCATTI (to review the report)
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT USING BCATTI

Notes

1. When you display or print the TITLE INDEX to the BOOK CATALOGUE using BCATTI, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.

2. When producing updates to the BOOK CATALOGUE, it will be necessary to redo the TITLE INDEX for the entire file.

3. The TITLE INDEX of the BOOK CATALOGUE can also be produced in the SELECT environment. In that environment, the commands would be:

```
GET ACCNO IST 000000 (to get the whole file)
DISPLAY BY TITLE USING BCATTI (to review the report)
Prepare the printer
PRINT BY TITLE USING BCATTI
```

- An approach to energy planning methodology for the Caribbean: the Jamaican model
 JED 000004 MME Info File (Power Resources)
- An approach to energy self-sufficiency in Jamaican raw sugar factories
 JED 000017 MME Info File (Power Resources)
- Commonwealth Science Council Workshop on meteorological data for solar and wind energy applications: alternative energy projects in Trinidad and Tobago
 JED 000016 MME Info File (Solar Energy)
- The dilemma of the O.I.D.Cs: energy growth and development in Jamaica 1969 - 1978
 JED 000022 MME Info File (Power Resources - Jamaica)
- Do-it-yourself solar crop dryer
 JED 000008 MME Info File (Solar Energy)
- Energy and our world: an integrated approach to the study of energy
 JED 000011 MME 620.91(02)
- Energy conservation: a primary requirement
 JED 000018 MME Info File (Energy Conservation)
- Energy conservation for Jamaica. Part 1 : summary of report
 JED 000014 MME Info File (Energy Policy)
- Energy conservation in Jamaica - knowledge, attitude, practice: an evaluation of the public education programme of the Ministry of Mining and Energy
 JED 000006 MME 620.9(729.2)
- Energy costs and capital needs in oil-importing developing countries
 JED 000002 MME Info File (Power Resources)
- Fuelwood plantation research in Jamaica: an interim report
 JED 000015 MME Info File (Wood Fuels)
- IEEE - seminar on unconventional sources of energy - March 27-28, 1979: the need for a national energy policy
 JED 000009 MME Info File (Power Resources - Jamaica)
- Jamaica - preliminary energy forecast 1978-1982: Terminal report - part 2
 JED 000001 MME Info File (Power Resources - Jamaica)
- Kingston Jamaica refinery feedstock quantity, quality and cost survey
 JED 000025 MME 665.5(729.2)
- Ministry of Mining, Energy and Tourism strategic management workshop:final brief
 JED 000005 MME Info File (Management)
- The National electricity demand of Jamaica
 JED 000007 MME 620.93:621.311(729.2)
- National energy policy programme
 JED 000003 MME Info File (Energy Policy)
- A Note on traditional economic analysis and petroleum economies
 JED 000021 MME Info File (Petroleum Industry)
- Oil exploration opportunities in Jamaica
 JED 000019 MME Info File (Petroleum)
- On the conversion of sugarcane to alcohol
 JED 000010 MME P/662.754:633.61
- The potential of solar energy for Jamaica
 JED 000012 MME Info File (Solar Energy)
- A Profitability study and economic analysis of petroleum retail operations in Jamaica
 JED 000024 MME 665.58:658.8.031

SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES

Name of format? BCATTI

Name of data structure? ENERGY3

Date created? 01/29/86

Date last modified? 01/30/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 6
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY DATABASE - TITLE INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'
8. '**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** ', LINE 63

E. LAYING OUT THE RECORDS

1. TITLE, COLUMN 8 - 75, INDENT -2
2. ACCNO, LINE BOTTOM, INDENT 0, BEGIN 'JED '
3. @LIST
4. LIBRARY, LINE SAME 2, COLUMN 25 - 29
5. CALLNO, LINE SAME 2, COLUMN 30 - 75

Report: BOOK CATALOGUE - AUTHOR INDEX

Format Name: BCATAU

Description: The BOOK CATALOGUE provides offline access to the titles in the Jamaica Energy Database. It consists of a main listing in accession number order, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The AUTHOR INDEX is arranged alphabetically by author; within each author, the records are arranged alphabetically by title. Each record includes the title, accession number, library, and call number. A record is repeated under each of its authors.

The list is titled "JAMAICA ENERGY DATABASE - AUTHOR INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SORT environment.
2. SORT AUTHOR
3. DISPLAY USING BCATAU (to review the report)
4. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
5. PRINT USING BCATAU

Notes

1. When you display or print the AUTHOR INDEX to the BOOK CATALOGUE using BCATAU, Inmagic will stop at the bottom of each page and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. Within each author, the secondary sort by title occurs automatically due to the order key specified in the ENERGY3 data structure.
3. When producing updates to the BOOK CATALOGUE, it will be necessary to redo the AUTHOR INDEX for the entire file.
4. The AUTHOR INDEX of the BOOK CATALOGUE can also be produced in the SELECT environment using the EXPLODE command. For example:

```
GET ACCNO GT 000000 (to get the whole file)
DISPLAY BY AUTHOR EXPLODED USING BCATAU (to review
the report)
Prepare the printer
PRINT BY AUTHOR EXPLODED USING BCATAU
```

5. If there are records with no authors, those records will not appear in the AUTHOR INDEX if it is produced in the SORT environment. In the SELECT environment, records with no authors will appear at the very beginning of the AUTHOR INDEX.

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ALETA, C. R.

The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)

ASHBY, WILLIAM R.

An approach to energy planning methodology for the Caribbean: the
Jamaican model
JED 000004 MME Info File (Power Resources)

BROWN, DON

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

GORDON, DEREK

Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy
JED 000006 MME 620.9(729.2)

JAMAICA INSTITUTE OF MANAGEMENT

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

JAMAICA. MINISTRY OF MINING AND ENERGY

Do-it-yourself solar crop dryer
JED 000008 MME Info File (Solar Energy)
Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy
JED 000006 MME 620.9(729.2)
The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)
National energy policy programme
JED 000003 MME Info File (Energy Policy)

JAMAICA. MINISTRY OF MINING, ENERGY AND TOURISM

Ministry of Mining, Energy and Tourism strategic management
workshop:final brief
JED 000005 MME Info File (Management)

ZIA MIAN, AHMAD

Energy costs and capital needs in oil-importing developing countries
JED 000002 MME Info File (Power Resources)
IEEE - seminar on unconventional sources of energy - March 27-28,
1979: the need for a national energy policy
JED 000009 MME Info File (Power Resources - Jamaica)
Jamaica - preliminary energy forecast 1978-1982: Terminal report -
part 2
JED 000001 MME Info File (Power Resources - Jamaica)

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Name of format? BCATAU
Name of data structure? ENERGY3
Date created? 01/29/86
Date last modified? 01/30/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 5
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY DATABASE - AUTHOR INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'
8. @PARAGRAPH, LINE 63
9. '**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** '

E. LAYING OUT THE RECORDS

1. @INDEX, ONLY KEYTOP, UPPER, LINE BOTTOM + 1, COLUMN 6 - 75
2. @PARAGRAPH, LINE BOTTOM, INDENT -2, COLUMN 10 - 75
3. TITLE
4. @LIST
5. ACCNO, COLUMN 10 - 24, INDENT 0, BEGIN 'JED'
6. LIBRARY, LINE SAME 5, COLUMN 25 - 29
7. CALLNO, LINE SAME 5, COLUMN 30 - 75

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Report: BOOK CATALOGUE - SUBJECT INDEX

Format Name: BCATSUB

Description: The BOOK CATALOGUE provides offline access to the titles in the Jamaica Energy Database. It consists of a main listing in accession number order, with indexes by title, author, and subject. The index entries are brief and refer the reader to the accession number listing for full details.

The SUBJECT INDEX is arranged alphabetically by subject; within subject, the records are arranged alphabetically by title. Each record includes the title, accession number, library, and call number. A record is repeated under each of its subject terms.

The list is titled "JAMAICA ENERGY DATABASE - SUBJECT INDEX"; the title, the date, and the page number appear in a header at the top of each page.

How To Run Report

1. Go to the SORT environment.
2. SORT DESCR
3. Prepare the printer; align the top of form and make sure the ONLINE button is lighted.
4. PRINT USING BCATSUB

Notes

1. When you display or print the SUBJECT INDEX to the BOOK CATALOGUE using BCATSUB, Inmagic will stop at the bottom of each page, and ask if you want to continue printing. If you would like to print the entire report without pausing, you must modify the report format.
2. Within each subject, the secondary sort by title occurs automatically due to the order key specified in the ENERGY3 data structure.
3. When producing updates to the BOOK CATALOGUE, it will be necessary to redo the SUBJECT INDEX for the entire file.
4. The SUBJECT INDEX of the BOOK CATALOGUE can also be produced in the SELECT environment using the EXPLODE command. For example:

```
GET ACCNO GT 000000 (to get the whole file)
DISPLAY BY DESCR EXPLODED USING BCATSUB (to review
the report)
Prepare the printer
PRINT BY DESCR EXPLODED USING BCATSUB
```

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JAMAICA ENERGY DATABASE - SUBJECT INDEX

01/30/86

PAGE 1

ADMINISTRATIVE ASPECTS

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

CAPITAL COSTS

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

DEVELOPING COUNTRIES

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-29,
1979: the need for a national energy policy

JED 000009 MME Info File (Power Resources - Jamaica)

ECONOMIC INDICATORS

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

ELECTRIC POWER

Jamaica - preliminary energy forecast 1979-1982: Terminal report -
part 2

JED 000001 MME Info File (Power Resources - Jamaica)

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC POWER FACTOR

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC POWER PLANTS

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

ELECTRIC UTILITY RATES

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

ENERGY CONSERVATION

Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy

JED 000006 MME 620.9(729.2)

National energy policy programme

JED 000003 MME Info File (Energy Policy)

ENERGY CONSUMPTION

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES

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JAMAICA ENERGY DATABASE - SUBJECT INDEX

01/30/86

PAGE 2

Jamaica - preliminary energy forecast 1978-1982: Terminal report -
part 2

JED 000001 MME Info File (Power Resources - Jamaica)
The National electricity demand of Jamaica
JED 000007 MME 620.93:621.311(729.2)

ENERGY PLANNING

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-28,
1979: the need for a national energy policy

JED 000009 MME Info File (Power Resources - Jamaica)

National energy policy programme

JED 000003 MME Info File (Energy Policy)

ENERGY POLICY

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-28,
1979: the need for a national energy policy

JED 000009 MME Info File (Power Resources - Jamaica)

National energy policy programme

JED 000003 MME Info File (Energy Policy)

EVALUATION

Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy

JED 000006 MME 620.9(729.2)

INFORMATION SERVICES

National energy policy programme

JED 000003 MME Info File (Energy Policy)

JAMAICA.

An approach to energy planning methodology for the Caribbean: the
Jamaican model

JED 000004 MME Info File (Power Resources)

Energy conservation in Jamaica - knowledge, attitude, practice: an
evaluation of the public education programme of the Ministry of
Mining and Energy

JED 000006 MME 620.9(729.2)

Energy costs and capital needs in oil-importing developing countries

JED 000002 MME Info File (Power Resources)

IEEE - seminar on unconventional sources of energy - March 27-28,
1979: the need for a national energy policy

JED 000009 MME Info File (Power Resources - Jamaica)

Jamaica - preliminary energy forecast 1978-1982: Terminal report -
part 2

JED 000001 MME Info File (Power Resources - Jamaica)

The National electricity demand of Jamaica

JED 000007 MME 620.93:621.311(729.2)

National energy policy programme

JED 000003 MME Info File (Energy Policy)

SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES

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Name of format? BCATSUB
Name of data structure? ENERGY3
Date created? 01/29/86
Date last modified? 01/30/86

A. DEFINING THE PAGE

1. Physical page length (number of lines)? 66
2. Top margin (number of lines)? 5
3. Bottom margin (number of lines)? 5
4. Maximum page width (number of characters)? 79
5. Number of blank lines between records? 0
6. May record be broken across pages (Y/N)? N
7. Change underline characters to spaces (Y/N)? N
8. Pause between pages (Y/N)? Y

B. ASKING FOR USER RESPONSES

C. DEFINING CALCULATIONS

D. LAYING OUT THE PAGE

1. @PARAGRAPH, COLUMN 6 - 75, LINE 2
2. '-----'
3. 'JAMAICA ENERGY DATABASE - SUBJECT INDEX ', LINE 4, COLUMN 6 - 49
4. @DATE, LINE SAME 3, COLUMN 55 - 65
5. @PAGE, LINE SAME 3, COLUMN 68 - 75, BEGIN 'PAGE '
6. @PARAGRAPH, COLUMN 6 - 75, LINE 5
7. '-----'
8. '**SEE ACCESSION NUMBER LISTING FOR FULL INFORMATION ON TITLES** ', LINE 63

E. LAYING OUT THE RECORDS

1. @INDEX, ONLY KEYTOP, UPPER, LINE BOTTOM + 1, COLUMN 6 - 75
2. @PARAGRAPH, LINE BOTTOM, INDENT -2, COLUMN 10 - 75
3. TITLE
4. @LIST
5. ACCNO, COLUMN 10 - 24, INDENT 0, BEGIN 'JED '
6. LIBRARY, LINE SAME 5, COLUMN 25 - 29
7. CALLNO, LINE SAME 5, COLUMN 30 - 75

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