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Author

Lawrence Berkeley National Laboratory

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PUB-416



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the latest developments about
DOE'S Technical Information Program,
Products and Services

United States Department of Energy, Technical Information Center, P.O. Box 62, Oak Ridge, TN 37830

Exchange Agreements Swell Energy Information

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Vol. 6 No. 12
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December, 1982

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The DOE Technical Information Services program, managed and administered by the Technical Information Center, maintains extensive international agreements and contracts to obtain information on foreign energy research and development. The Center's specialized document exchange programs with foreign countries and international organizations ensure that DOE and other American researchers have access to the major part of the world's energy information. Currently, exchange agreements with the International Atomic Energy Agency's International Nuclear Information System (INIS), the International Energy Agency (IEA), Denmark, West Germany, Finland, France, the Netherlands, Norway, and Sweden; and contractual agreements for access to information from Bulgaria, Czechoslovakia, Hungary, Poland, Rumania, the Soviet Union, and Yugoslavia give comprehensive coverage of data from most of the technologically developed countries of the world.

To show the extent of these exchanges, the accompanying table lists the number of bibliographic entries exchanged between the Center and foreign nations or international organizations in September 1982, together with totals for the fiscal year.

All information received through these agreements and contracts is processed and entered into the Energy Data Base, and microfiche of foreign report literature is made available for sale through Engineered Systems, Inc., the Center's microforms contractor, and NTIS.

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Special Supplement: Index to
Energinfo, Vol. 6

TIC International Document Exchanges: Totals, September and Fiscal Year 1982

Agency or Country	Number of Entries			
	Received by TIC		Sent out by TIC	
	September	FY 1982	September	FY 1982
INIS	7,508	53,000	2,000	21,400
IEA, coal	756	7,532	1,273	5,831
IEA, biomass		567		1,095
IEA, coal research in progress				47
West Germany	2,623	19,000	32,044	180,460
West Germany, research in progress		100		4,274
France		112		
Nordic ^a	83	403	16,936	69,800

^aOnly U.S. energy information was sent to the Nordic nations (Denmark, Finland, Norway, and Sweden). In some cases, Germany, for example, all entries to the data base were sent.

Season's Greetings
from TIC

PUB-416

National Energy Software Center

The National Energy Software Center (NESC) is DOE's software exchange and information center. It is operated by Argonne National Laboratory under the direction and administrative review of the Technical Information Center. NESC promotes sharing of computer software within DOE and other government agencies and the private sector to eliminate duplication of effort and expense. Computer programs, models, and data compilations developed by DOE and its contractors are collected, screened, packaged, and distributed by NESC.

A NESC software package contains all elements required for using the software, including any materials needed to adapt it to a different computer from that for which it was designed. Software packages in the NESC collection are described in the NES file (no. 23) on DOE/RECON.

In fiscal year 1982, NESC:

- Received 165 software contributions
- Screened 127 contributions
- Packaged 93 contributions and tested 73 of these by executing sample problems
- Entered 144 packages into the NESC collection
- Filled requests for 1325 packages or authorizations for NESC program use from 385 organizations
- Issued:
 - 116 NESC notes containing corrections, implementation information, descriptions of transmittal tapes, and announcements of the availability of replacement programs
 - 4 NESC bulletins
 - 4 software newsletters

A DOE order for computer software has been prepared. This order requires that any software created and released by a DOE office or a DOE contractor also be provided to NESC for announcement and sharing throughout the Department.

The major contributors of software packages (programs, source disks, documentation, etc.) to NESC in FY 1982 are listed in the accompanying table.

Major Contributors to NESC, FY 1982

Installation	Software Packages
Argonne National Laboratory	27
Oak Ridge National Laboratory	19
Los Alamos National Laboratory	17
Nuclear Energy Agency Data Bank	16
EG&G Idaho	10
Lawrence Livermore National Laboratory	9
Solar Energy Research Institute	9
Lawrence Berkeley Laboratory	6
Sandia National Laboratories, Albuquerque	6
Battelle Pacific Northwest Laboratory	5
Morgantown Energy Technology Center	5
University of Utah Research Institute	5
India Reactor Research Center	3
Southern Solar Energy Center	3
Stanford Linear Accelerator Center	3
Australia Atomic Energy Commission	2
General Electric Company, Advanced Reactor Systems Department	2
Mid-America Solar Energy Center	2

NESC services are available on a subscription basis. For additional information, write:

U.S. Department of Energy
National Energy Software Center
Argonne National Laboratory
9700 South Cass Avenue
Argonne, IL 60439

or call:

FTS: 972-7250

Commercial: (312) 972-7250

energinfo...

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Editors:

Margaret Hu and Rita LaBrie
Lawrence Berkeley Laboratory, 50-130
University of California
Berkeley, CA 94720
(415) 486-6307, or FTS 451-6307

TIC Liaison:

Meg Jared
DOE Technical Information Center
P.O. Box 62
Oak Ridge, TN 37830
(615) 576-6299, or FTS 626-6299

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Energy Deskbook Goes Back to Press

Samuel Glasstone's *Energy Deskbook* has gone into its second printing. Originally released in June, the book has been so enthusiastically received that copies are already hard to come by.

The Technical Information Center tried a new promotional approach for the *Deskbook* which involved DOE and contractor librarians and DOE technical information officers. Libraries at DOE and contractor sites were sent copies of the publication to distribute to their R&D staffs with a memo stating that the Center could provide a limited number of copies to each divi-

sion. Using this approach, TIC could be sure that those who needed a copy of the book received it and that others who might need to refer to it knew that it was available at their library.

The librarians, the technical information officers, the Center, and the book's users all agree that the teamwork paid off in inexpensive, effective, and efficient announcement and distribution of the *Deskbook*. Indications are that public sales at the National Technical Information Service are going well also. For more information about this publication and its author, see the September issue.



NEWS

TYMNET Takes Over

TYMNET has been awarded the contract to service DOE/RECON. TYMNET expects to begin testing on December 15, 1983. A screen message on DOE/RECON will announce the actual start-up. TELENET will be in service until January 15, 1983. During the start-up phase, there will probably be periods when TYMNET is out of service for computer adjustments. If TYMNET is not available, use TELENET. The logon procedure is given below. The Technical Information Center is separately sending out information on TYMNET logon procedures.



Reminder for Online Ordering!

If you are a DOE/RECON user ordering free or loan copies from TIC and are using a six-digit bogus number in the account number position, please be sure to include your name and address in the comments field. This will speed up your order and create less work for the staff filling your request. For a full description of online ordering, see the January 1982 issue of *Energinfo*.

Logon Instructions: TYMNET

TYMNET Message	User Action	Explanation
	Set terminal switches; half duplex 300 or 1200 baud online	TYMNET may be used in half duplex by entering the Control H character in the logon string prior to the Host Name.
	Dial TYMNET Node: (telephone no.)	Dial TYMNET number corresponding to modem and speed of your terminal.
High-pitched tone	Establish connection	Place receiver in acoustic coupler or press "DATA" button on modem.
Please type your terminal identifier (or) xxxxppry %nn::xyx (garbage message)	a	Type an "a" to show the network this is an asynchronous terminal. Refer to "How to Use TYMNET" for other terminal identifiers.
-0124-010-		TYMNET gives node and port address.
Please Login:	(Control H) recon; (CR) (CR)	Specify the RECON host computer to the network.
+ Remote call connected	Arecon (CR)	Type capital Arecon
ENTER ID:	____no(CR) (user id)	Enter your 3-character user ID. For terse mode, enter "no" after ID.
ENTER PASSWORD:	____(CR) (password)	Enter your DOE/RECON password (up to 8 alpha-numeric characters).

SELECT Command Gets SuperSELECT Capabilities

The SELECT command on DOE/RECON now has the additional power of a COMBINE command when users join terms together with the Boolean operators AND, OR, NOT, *, and +. The superSELECT allows users to select multiple terms and combine them all in one command. Examples of its use follow.

- (1) S BLACK COATINGS AND AU=MCDONALD, G\$
S BLACK COATINGS * AU=MCDONALD, G\$
- (2) S CRUSTACEANS NOT LOBSTERS
The NOT symbol (-) is not allowed in a superSELECT.
- (3) S (APARTMENT BUILDINGS OR HOUSES) AND
SOLAR HEATING SYSTEMS
S (APARTMENT BUILDINGS + HOUSES) * SOLAR
HEATING SYSTEMS
- (4) S RESEARCH "AND" TEST REACTORS
S "LA=ENGLISH AND FRENCH"
S "RESEARCH AND TEST REACTORS"

Use double quotes when a Boolean operator is contained in a term. In the unlikely event that a term already contains a double quote, use three double quotes in a row.

- (5) S WIND TURBINES AND S99
S WIND POWER PLANTS AND #99

Sets can be used in superSELECT by using the letter S or a # sign before the set number. This must be used with a logical operator. It is not possible to superselect only a single set number without linking it to something else. Only sets that have already been created may be referenced in a superSELECT.

- (6) S AUTOMOBILES AND "S10"

When a term that could be interpreted as a set number (S1-S99) is used, double quotes must be placed around it.

In general, these points should be remembered:

- DOE/RECON will accept any characters within double quotes as part of a keyword and not examine them for special purposes such as commands and set numbers.
- Blanks must be used around the words AND, OR, and NOT when used for Boolean operators. The symbols * and + do not need surrounding blanks.
- The input limit on any DOE/RECON command is still 60 characters. We realize this will hamper the full use of the superSELECT, but an enlarged input area is soon to come.
- Currently, the superSELECT forms sets for intermediate steps. We may add a feature later to form only one set with a superSELECT.
- In a simple SELECT, do not use AND, OR, or NOT in a term, unless you enclose the term in double quotes; otherwise, DOE/RECON will interpret AND, OR, or NOT as logical connectors rather than as text.
- All terms selected will be assumed to be in the "IT" index, unless another prefix is given.

-Barbara Corey, ORNL

DOE/RECON Statistics

DOE/RECON uptime for November was 98%. There were 4,285 user sessions, and 98,106 citations were output via the PRINT commands.

*-Leon Yount, DOE/RECON Staff,
ORNL*

EIRI: Promoting Quick Access To Information Services

For a limited time, free searches on the Energy Information Resource Inventory data base will be provided to state energy offices and extension services that do not have access to DOE/RECON. The searches will be conducted by the EIRI staff at the University of Tennessee in cooperation with the Office of State and Local Assistance Programs and the Technical Information Center. The purpose is to emphasize the importance of having current energy information for economically effective decision making and reference. If interested, call (615) 576-6770 or FTS 626-6770.

EIRI (file 37 on DOE/RECON) is an online inventory of DOE-funded state and federal energy information sources. The file describes DOE information centers, libraries, and program and operations offices;

national laboratories; and other contractor organizations. State and territorial energy offices and energy extension services and their affiliated programs are also included. Currently, there are over 1100 entries. The file also expedites the revision of directories such as the *Directory of Libraries and Information Specialists in DOE and Its Contractor Organizations*.

Federal and state programs have found file 37 effective for many reasons. The file is a ready reference on all energy information programs conducted by various organizations and government-related entities (not just DOE). It can pinpoint programs on energy subjects aimed at specific audiences (such as weatherization for low-income groups), giving names and

(Continued on next page)

EIRI, continued

addresses. It can locate resources such as data bases, hotlines, and newsletters, or say whether an organization has serial publications available. Finally, because each entry specifies what services are offered (and any restrictions that may apply), users can quickly decide whether those services meet their needs.

The EIRI file began as a cooperative effort between the Office of State and Local Assistance Programs under the Assistant Secretary of Conservation and Renewable Energy and the Technical Information Center. The data base is maintained for TIC by the University of Tennessee's Energy, Environment, and Resources Center and was added to DOE/RECON in May 1981.

File entries have expanded beyond the initial information provided—program title and address, description, sponsoring agency, and funding agency. Entries now include information about access to data bases and online retrieval systems; serial publications and newsletters produced by a organization; hotlines and facsimile transmission resources; number of staff members; and the names, titles, and telephone numbers of key personnel. Geographic coverage and designated audiences, availability of interlibrary loans, and restrictions on use, if any, were also added, and subject categories and descriptors were assigned.

EIRI is updated every two weeks from user input. All organizations are contacted once a year to verify and update their records. This year's update is in progress, with the EIRI staff currently following up entries that have not returned reverification forms. This process will be completed with the revision and publication of the *Resource Directory of DOE Information Organizations* in early 1983. Another directory, the *Energy-Related Technical Assistance Guide for State Grant Programs*, will appear in an updated, online format. A revised edition of *An Introduction to the DOE/RECON Energy Information Resource Inventory* is also scheduled.

Additional information about EIRI can be found in the DOE/RECON manual. The accompanying table of data elements and their explanations provides an overview. For assistance from the EIRI staff, call the numbers listed above, or write to:

Energy Information Resource Inventory
University of Tennessee
Energy, Environment, and Resources Center
318 South Stadium Hall
Knoxville, Tennessee 37996-0710

—Joyce Finney and
Carolyn Srite, EIRI

Energy Information Resource Inventory (EIRI) Data Base Unit Record

Descriptor Field	Search-able Field	Printable Fields in Formats							Search by	Example
		0	2	3	4	5	6	7		
Accession No.	X	X	X	X	X	X	X	X	Direct	%00*0000309
Organization Code	X	X	X	X		X	X	X	OC	OC=ORNL-01
Type Record	X	X	X			X		X	TR	TR=Information Center
Sponsoring Agency	X	X				X			SP	SP=DOE
Title of Record	X	X	X	X	X	X	X	X	TL	TL=Toxicology
Organization/Address		X	X	X		X		X		
City		X	X	X		X		X		
State	X	X	X	X		X		X	ST	ST=Tennessee
Zip Code		X	X	X		X		X		
Telephone No.		X	X	X		X		X		
Funding Agency		X	X			X		X		
Restrictions on Usage		X	X			X		X		
Description		X			X	X				
Data Bases		X	X			X		X		
Online Retrieval Systems		X	X			X		X		
Publications		X	X			X		X		
Newsletters		X	X			X		X		
Facsimile Transmission										
Devices		X	X			X		X		
Personnel	X	X	X			X		X	NA	NA=Robbins, G.D.
Staff (Full-time Equiv.)		X					X			
Geographic Coverage	X	X				X			GC	GC=National
Target Audiences		X				X				
Subject Categories	X	X	X			X			NC	NC=010000
Subject Descriptors	X	X	X			X			IT	IT=Libraries
Interlibrary Loan Service		X				X				

DOE/RECON Calendar of Events

1982

Dec. 23-24 Christmas Holiday

Dec. 31 New Year's Eve Holiday

April 14-15 System-Independent EDB and Advanced DOE/RECON Training (for experienced DOE/RECON searchers) Washington, D.C.
(April 14, System-Independent EDB, is also open to experienced searchers on commercial systems.)

1983

Jan. 24 Basic DOE/RECON Training: Introductory Module on Using Terminals (optional afternoon session for novice users)
Lawrence Berkeley Laboratory, Berkeley, CA

May User Meeting
Oak Ridge, TN

Jan. 25-26 Basic DOE/RECON Training (for newer users)
Lawrence Berkeley Laboratory, Berkeley, CA

July 4 DOE/RECON Holiday: Independence Day

Jan. 27-28 System-Independent EDB and Advanced DOE/RECON Training (for experienced DOE/RECON searchers)
Lawrence Berkeley Laboratory, Berkeley, CA
(January 27, System-Independent EDB, is also open to experienced searchers on commercial systems.)

Fee Schedule for 2-Day DOE/RECON Training Sessions

	Existing password	Start-up fee*
DOE Employees	Free	Free
DOE Contractors	\$125	\$200
Other Federal Employees	\$150	\$225
All Others	\$175	\$250

April 11 Basic DOE/RECON Training: Introductory Module on Using Terminals (optional afternoon session for novice users)
Washington, D.C.

*Includes one training slot plus search aids.

April 12-13 Basic DOE/RECON Training (for newer users)
Washington, D.C.

Please send training reservations to DOE/RECON Training Coordinator, Lawrence Berkeley Laboratory, Bldg. 50, Room 130, Berkeley, CA 94720, telephone: (415) 486-6307 or FTS 451-6307. The fees are payable to the Regents of the University of California.

INFORMATION RESEARCH GROUP
LAWRENCE BERKELEY LABORATORY
BLDG. 50, ROOM 130
UNIVERSITY OF CALIFORNIA
BERKELEY, CA 94720

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