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MASTER

CENTER
FOR
ENERGY POLICY
AND
RESEARCH

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ENERGY INFORMATION CENTER

A First Report

MASTER

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ENERGY INFORMATION CENTER

A First Report

The Energy Information Center, located on the campus of the New York Institute of Technology in Old Westbury, Long Island, was created to serve (1) the research and information dissemination purposes of the Center for Energy Policy and Research, and (2) the information outreach programs of the Energy Advisory Service established by the Center under contract with the United States Energy Research and Development Administration.

The Center for Energy Policy and Research is concerned primarily with (a) energy conservation, (b) alternative energy sources, (c) energy usage, and (d) energy policy, and insofar as they relate to these matters, it is concerned secondarily with fossil energy, nuclear energy, and international energy developments. Accordingly, the Energy Information Center acquires materials in such fields as engineering, economics, and the political, social, and behavioral sciences. Examples of specific coverage within our areas of primary interest include:

Energy Conservation

- Studies of institutional, administrative, technological and attitudinal barriers to efficient energy utilization and conservation.
- Energy Management
- Building Insulation

Energy Conservation, cont'd.

- Architectural Design.
- Local generation of electricity.
- Industrial process redesign.
- Reports on techniques for increasing energy efficiency in residential, commercial, factory and institutional (e.g. hospital, school, library) buildings.
- Case studies and field work in the heating, ventilation, and air conditioning field.

Alternative Energy Sources

- Solar energy and its various facets: architectural design, solar heating and cooling, solar voltaic conversion, solar electric power plants.
- Analysis and assessment of current technologies using wind, geothermal, ocean thermal, and nuclear fusion as energy sources.
- Biomass conversion as a source of fuels.
- Hydrogen economy.
- State-of-the-art reports on waste recovery systems.

Energy Usage

- Statistical data on patterns of past and current energy consumption
- Public and private demonstration projects supporting decreases in energy consumption and commercialization techniques.
- Regional, state, local energy audits.

Energy Policy

- Summaries and prospects of federal, State and local energy legislation and regulation.
- Assessments of federal and state energy research and development and demonstration plans.

Energy Policy, cont'd.

- Studies of voluntarism versus mandatory goals as strategies for increasing energy efficiency.
- Attitudinal surveys related to life-style impacts.

Materials which comprise the Center's permanent collection are evaluated according to the criteria of up-to-dateness, authoritativeness of author or issuing agency, non-redundant substantive contribution, and likelihood of frequent utilization.

Reference tools in the Energy Information Center are used for research and to locate relevant printed, microform and electronic media materials for acquisition purposes. The following reference tools are available at the Energy Information Center or through its allied facilities:

I. Computerized Data-base Networks

- A. New York Institute of Technology TECHSEARCH system.
Energy-related citations and abstracts are recovered through this system from the following data-bases:

ABI/INFORM
AIM/ARM
CAIN
CHEM ABST.
COMPENDEX
ERIC
GEO-REF
INSPEC
NTIS
TRANSDEX
PREDICASTS
PSYCH ABST.
SCI SEARCH
SOC SCIENCE CIT. INDEX

B. United States Energy Research and Development Administration

RECON system. Sources not covered in TECHSEARCH which this system recovers include:

ERDA Abstracts for Policy Analysis
Water Resources Abstracts
Government abstracts from patents, private contractors,
and foreign sources

II. Bibliographies and Catalogs

- Alternative Sources of Energy Catalog
- Conservation/Ecology Bibliography
- New York State Public Service Commission Publication list
- Center for Science in the Public Interest. Publication list
- AAAS reprints
- HUD Publication list
- FEA Catalog of Publications; Technical Reports Catalog.
- ERDA Technical Information Center-Oak Ridge.
Catalog of Publications.
- Commerce Department. Publication lists
- National Technical Information Service. Technical Reports
- ERDA Solar Heating and Cooling Products Catalog
- Library of Congress Bibliographies (various subjects)
- American Institute of Architects Bibliography
- Energy Primer. Catalog/Bibliography
- International Solar Energy Society Bibliography
- U.S. Monthly Catalog of Publications
- Science for Society Bibliography. 4th edition (AAAS)
- Rand Corporation Bibliographies (various subjects)
- Council of Planning Librarians Bibliographies (various subjects)
- Total Environmental Action Catalog
- Catalog of Continuing Education Videotapes (NYIT Publication)

III. Indexing and Abstracting Services

- Environmental Abstracts
- ERDA Abstracts (formerly Nuclear Science Abstracts)
- Selected Rand Abstracts
- Energy Information Abstracts
- Public Affairs Information Service Index
- Business Periodicals Index
- Index to Legal Periodicals
- Foundation Grants Index
- Science Citation Index
- Social Science Citation Index
- Economic Abstracts

IV. Handbooks, Directories

- Industrial Pollution Encyclopedia
- World Almanacs (various)
- Energy: A Guide to Organizations and Information Resources
in the United States, Directory
- Energy Information Resources...Directory
- Oxford Economic Atlas of the World
- National Trade and Professional Associations Directory
- Energy Conservation Training Institute Handbook
- Energy Primer
- The Weather Almanac
- Municipal Yearbook
- Encyclopedia of Associations
- Annual Review

V. Reviewing Media

- Choice
- Science
- AAAS Science Books and Films
- Library Journal
- National Information Center on Mediated Materials Index
- Media Review Digest
- International Index to Multimedia Information

Initial access to materials in the collection is through (1) author/title catalogs, and subject catalog organized according to Library of Congress subject headings, and (2) a vertical file system using headings based on the emerging vocabulary of the energy literature. What follows is a presentation of information materials and the basic structure of the vertical file system.

A Representative Sample of Materials Available Through Card Catalog System

I. Books

Abelson, Philip H. ed. Energy: Use, Conservation and Supply.
Washington D.C.: American Association for the Advancement
of Science, 1974.

Clark, Wilson. Energy for Survival. Garden City: Anchor Press/
Doubleday, 1975.

Commoner, Barry, Howard Boksenbaum, Michael Corr, editors.
Volume I, "The Social Costs of Power Production," in
Energy and Human Welfare: A Critical Analysis. New York:
MacMillan, 1975.

_____, Volume II, "Alternative Technologies for Power Production."

_____, Volume III, "Human Welfare: The End Use for Power."

Darmstadter, Joel, Conserving Energy: Prospects and Opportunities in
the New York Region. Baltimore: The Johns Hopkins University Press,
1975.

Eccli, Eugene, editor. Low Cost, Energy-Efficient Shelter. Emmaus,
Pennsylvania: Rodale Press, 1976.

Energy Policy Project of the Ford Foundation. (Complete series).
20 volumes. Cambridge, Mass.: Ballinger, 1975.

Hollander, Jack M., editor. Annual Review of Energy, Vol. 1.
Palo Alto, California: Annual Reviews, 1976.

Ruedisili, Lon C. and Morris W. Firebaugh, editors. Perspectives on
Energy. New York: Oxford University Press, 1975.

Shurcliff, W.A. Solar Heated Buildings: A Brief Survey. 12th edition.
Cambridge, Mass.: 1976.

II. Periodicals

A. Report Services

Energy Controls, Prentice-Hall. (An ongoing series of weekly reports
updating and clarifying legislation, regulations and standards on
the Federal and State levels).

Energy Notebook, American Institute of Architects. (An update service
offering surveys, case studies, articles, bibliographies and
legislation on energy and the built environment).

B. Newspapers

- New York Times
- Newsday
- Wall Street Journal

C. Newsletters

- Energy Reporter (FEA)
- Weekly Announcements (ERDA)
- SIPI Scope (Scientists Institute for Public Information)
- Texas Energy and Mineral Resources (Texas A&M)
- New England Solar Energy Association Newsletter

D. Journals

- Science
- Solar Age
- Technology Review
- Environment
- Spectrum

III. Technical Reports

A. Federal

- Comparative Analysis of the 1976 ERDA Plan Program.
U.S. Congress. Office of Technology Assessment.
- Economic Report of the President. 1976.
- Assessment of Geothermal Resources of the United States.
Geological Survey (Circular #726). 1975.
- Development of Proposed Standards for Testing Solar
Collectors and Thermal Storage Devices. Department
of Commerce. National Bureau of Standards
(Technical Note #899). 1976.
- National Power Survey: Energy Conservation. United States
Federal Power Commission. 1974.
- Minimum Design Standards for Heat Loss Calculations.
U.S. HUD. 1973.

B. State & Regional

- Energy and Employment in New York State. Draft Report.
N.Y. State Legislative Commission on Energy Systems. 1976
- The Question is ... An Energy Notebook for State Legislators.
Northeastern Legislative Energy Staff. 1976.
- Reliability Criteria - A Cost Benefit Analysis. N.Y. State
Department of Public Service. 1975.

- Summary Report on Future Energy Alternatives for Colorado. Colorado Energy Research Institute. 1976.

C. Local

- A Study of Existing Energy Usage on Long Island and the Impact of Energy Conservation, Solar Energy, Total Energy and Wind Systems on Future Requirements. (Dubin Report). Suffolk County. 1975.
- Nassau County Environmental Plan Report. Nassau County Environmental Management Council. 1974.

D. Non-governmental Organizations

- Energy-Related Growth Markets. National Electrical Contractors Association, Inc. 1976.
- Energy Conservation Training Institute. Conservation Foundation. 1976.
- Regional Energy Consumption. Regional Planning Association and Resources for the Future. 1974.
- Beyond NEPA: Criteria for Environmental Impact Review. The Institute on Man and Science. 1973.
- The Economy of Energy Conservation in Educational Facilities. Educational Facilities Laboratory. 1973.
- Turning Toward the Sun (roundup of state legislation on solar energy). National Conference of State Legislatures. 1974.

IV. Conference Proceedings

- The Northeastern States Confront the Energy Crisis. Albany, New York, 1975.
- A Perspective on the Energy Future of the North Eastern United States. Brookhaven National Laboratories, 1976.
- Magnitude and Deployment Schedules of Energy Resources. Portland, Oregon, 1975.
- New York City Metropolitan Energy Conference. New York, New York, 1974.

Current Headings (Descriptors) in
Vertical File System
(as of 7/23/76)

agriculture
alternative sources
anti-pollution devices
appliances
architectural design
automobile efficiency
barriers
bibliography--general
biomass
boom towns
breeder reactor
building efficiency
Canada
civil liberties
climate
citizen participation
citizens training
coal
commerce
commercialization
community action programs
Connecticut
conservation
consumerism
consumption
conversion techniques
cost-benefit analysis
decision-making
developing countries
economic opportunity
economics
economics--tax policy
ecosystems
educational facilities
educational programs
electricity
electric vehicles
employment
energy analysis
energy crisis
energy efficiency
energy independence
energy management
energy & politics
energy systems
environment

environmental reconciliation
ERDA--policy
Europe & USSR
FEA
flywheels
food policy & production
foreign policy--U.S.
fossil fuels
futurism
gas (natural)
geothermal
grants--teaching
Habitat
health & safety
heat pump
horticulture
housing
hydrogen (as a fuel)
hydropower
industry & commerce
intermediate technology
International Atomic Energy Agency
international relations
land use
Latin America
legal aspects
legislation--federal
legislation--local
legislation--state
legislation--state--California
legislation--state--Connecticut
legislation--state--Florida
legislation--state--New Jersey
legislation--state--New Mexico
legislation--state--New York
lifestyles
magnetohydrodynamics (MHD)
manpower
Maryland
media
Middle East
mineral resources
mining technology
minorities
net energy
New York (city)

New York State
nuclear debate
nuclear fission techniques
nuclear--foreign
nuclear fusion techniques
nuclear power industry
nuclear safety & health
off-shore oil & gas
oil
oil shale/tar sands
ocean thermal
OPEC
petroleum
petroleum--foreign
petroleum--industry
photovoltaic cells
plantation fuels
plutonium reprocessing
polar regions
policy
prices--fuels & utilities
public attitudes
regional affairs
research projects
residential
resources
resources ownership
scrubber technology
siting
social implications
solar

solar center
solar electricity
solar--foreign
solar heating & cooling
solar houses--design
solar--miscellaneous applications
solar power plants
solar systems
solar thermal heating
Soviet Union
strip mining
synthetic fuels
systems analysis
Technology Assessment, U.S. Office of
technology evaluation
technology transfer
thermvision
tidal
total energy systems
trade-offs
transportation
uranium
urban affairs
utilities
utilization
water resources
waste recovery
western hemisphere
wind
wood
world resources

To date, about 1,500 items are in the Energy Information Center.
A total of approximately 4,000 items is planned for in the next year.

In addition to serving the research and information dissemination needs of the Center for Energy Policy and Research, the Energy Information Center also supports the Center's Energy Advisory Service outreach program in which information and technical assistance in the use of energy conserving techniques and equipment is made available to industrial and commercial organizations, public officials, homeowners, and the general public throughout the New York, New Jersey and Connecticut area.

Therefore, the Energy Information Center acquires materials specifically designed to meet the identified energy information and technical needs of each of these audiences. For example, for small industrial and commercial establishments, the Energy Information Center collects and organizes information (a) on new energy technologies developed by the United States Energy Research and Development Administration and other governmental agencies, (b) on consulting engineers, architects, and contractors involved in the design and installation of energy management systems, (c) on specifications, costs, and sources of alternative energy equipment, and (d) on current and pending federal, state and local energy statutes, regulations and judicial decisions. For the general public, the Energy Information Center procures publications from government agencies, corporations, trade and professional associations, consumer and advocacy groups, and research institutes. The Center collects printed and photographic case study materials documenting energy savings through various conservation techniques. For referral purposes, it compiles a detailed listing of the activities and locations of public agencies, citizen organizations, and professional associations with expertise in one or more energy-related fields.