



Office of Scientific and Technical Information Providing Energy Information at the Desktop



00-38-12-06-00





Supporting the Science



Mission



- The public invests \$7 billion annually in DOE R&D
- Principal output from department's R&D is scientific and technical information (STI)
- Ensures overall stewardship and accessibility for unclassified STI
- Oversees the Department's Technical Information Management Program
- Manages the world's most comprehensive collection of classified and sensitive energy-related information
- Operating Agent and the U.S. representative to the ETDE and INIS

Result—information delivered to the desktop, reaching thousands more people—at lower cost per person served

00-38-13-06-00





**U.S. Secretary of Energy Bill Richardson
Fermi Awards Presentation**



*“For science to rapidly advance
at the frontiers, it must be open.
And shared knowledge is the
enabler of scientific progress.”*





OSTI Resource Portfolio

EnergyFiles
Virtual Library of Energy Science and Technology
EnergyPortal Search
Distributed searching across 500 heterogeneous databases and Web sites

 SCIENCE Journal access	 DOE Information Bridge Full-text reports	 PrePRINT Network Preprint Literature
 Federal R&D Project Summaries	 Research Development Project Summaries R&D projects	 DOE R&D Accomplishments Outcomes of past research
 OPEN NET Declassified information	 ECAPS Subject Specific Citations	 DOE Reports Bibliographic Database Report citations

00-38-15-06-00





Overview



<http://www.osti.gov/bridge/>

- Released April 1998
- Includes over 55,000 full-text DOE research reports and their bibliographic records and abstracts from 1995 forward
- Provides over 4.3 million full-text pages to users in an organized, searchable format
- Enables users to access, locate, search, retrieve, and download full-text and/or bibliographic information from their desktops
- Free access provided to the public via partnership with GPO
- 14,000 full-text downloads per month

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Enhancements 2000/2001



<http://www.osti.gov/bridge/>

- Content projected to double
- Access to full-text documents via Persistent URL's (PURL)
- Capability to search full-text documents located at remote sites where research is performed
- Multiple downloading capabilities, date-range searching, statistical reporting enhancements, search results in user defined order



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Overview



<http://www.osti.gov/pubscience/>

- Released October 1, 1999 in collaboration with 26 publisher partners participating with 1048 journal titles
- Provides users the capability to search a large compendium of peer-reviewed journal literature with a focus on the physical sciences and other disciplines of concern to the Department of Energy's R&D community
- 1.8 million records accessible for search and retrieval
- 1 million searches projected annually
- 7,500 visitors per week

00-38-18-06-00





Enhancements 2000/2001

pub SCIENCE

<http://www.osti.gov/pubscience/>

- Customizable user interface
- E-mail alert service for new journal data based on user preferences
- Query a search engine or index a site with integrated results
- Bi-directional linking with selected publishers



00-38-19-06-00



Overview



<http://www.osti.gov/preprint/>

- Released January 31, 2000
- A searchable gateway to preprint servers that deal with scientific and technical disciplines of concern to DOE
- Provides access to over 1000 preprint sites and more than 330,000 preprints
- Allows users to search across 24 large preprint databases via a single search interface
- 200,000 searches projected annually



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Enhancements 2000/2001



<http://www.osti.gov/preprint/>

- Implementation of Web crawler technologies and options to improve the searching capabilities
- Enhanced searching capabilities, possibilities include additional fields, increased ability to modify searches, clustering, and reference linking
- Continued growth within each “Subject Pathways” section



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Federally Funded Research

Federal R&D Project Summaries
Descriptions, Awards, and Summaries of Federally Funded Research

Find out how your research dollars are being spent

- About
- What's New
- Contacts/Comments
- Disclaimer
- Search R&D

DOE Home →
OSTI Home →

product of the DOE
Office of Scientific and Technical Information

The U.S. Government is accountable to the public for its annual multi-billion dollar R&D investment

This system is a consortium of federal agencies providing R&D summaries

- Department of Energy
- National Institutes of Health
- National Science Foundation

Search Search across databases of all contributing agencies with a single query for quick and comprehensive results

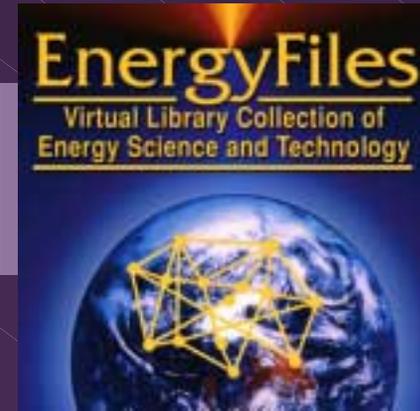
<http://www.osti.gov/fedrnd/>

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Overview



<http://www.osti.gov/energyfiles/>

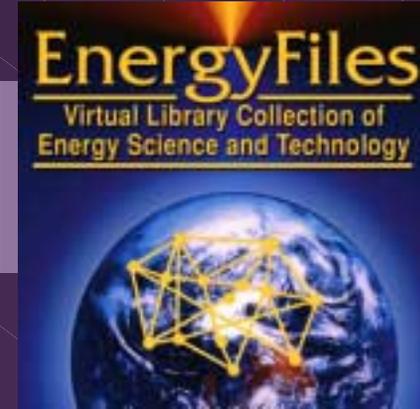
- Released May 1997
- One-stop shopping for integrated energy, science, and technology information resources (over 500 sites)
 - High quality, driven by a collection development policy
 - Geographically-dispersed, resulting from collaborations and resource sharing
- Resources include bibliographic databases, full-text, journals, and preprints
- Maximizes worldwide access at no cost to users, including researchers, educators, students, public
- Utilization of modern technology, including a cutting-edge search mechanism - provides distributed searching across decentralized, heterogeneous resources maintained by various agencies and organizations



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Building on Success



<http://www.osti.gov/energyfiles/>

- A Future Information Infrastructure for the Physical Sciences is now being proposed
- OSTI uniquely positioned to take the lead
 - 50 years experience
 - Core collection of 6.5 million items, journals, technical reports, preprints, books, and full-text images
 - Collaborations with 120 countries, other government agencies, journal publishers, and research organizations
 - Over 1.5 million users served annually



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How Federal Agencies are Sharing Their Information

- National Institutes of Health – National Library of Medicine
- U.S. Department of Agriculture – National Agricultural Library
- U.S. Department of Education – National Library of Education
- U.S. Department of Transportation – National Transportation Library
- National Science Foundation – National Science, Mathematics, Engineering, and Technology Education Digital Library (NSDL)
- Environmental Protection Agency – EPA National Library Network





Components of a Future Information Infrastructure for the Physical Sciences

- Infrastructure
- Content
- Technology
- Science for Consumers
- Science Education
- Business Information Services

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Outcomes That Will Benefit the Users

The Future Information Infrastructure for the Physical Sciences will provide:

- Well organized, comprehensive resource not limited by traditional boundaries
- Relevant information, regardless of source
- Access to both historic and current information
- Practical information about energy use
- Education for future scientists and engineers
- Easy, fast, accurate navigation through collections and resources
- Remote access to scientific hardware and software
- Provisions to accommodate users with disabilities

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Future Information Infrastructure for the Physical Sciences

Meeting the Need—*Realizing the Vision*

Shared knowledge enables scientific progress

