

Office of Scientific and Technical Information

2015–2019 Strategic Plan

*U.S. Department of Energy
R&D Results*

Accountability

Access

Preservation

Comprehensiveness

Collaboration

Visibility

Mid-Cycle Update – September 2017



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Office of Scientific and
Technical Information

Message from the Director

As the Office of Scientific and Technical Information (OSTI) approaches its 70th anniversary (having been established with the Atomic Energy Commission in 1947), our energy, enthusiasm, and commitment to America's science and technology future are as bright-eyed and vibrant as ever. This future includes energy security, environmental stewardship, nuclear security and safety, and leadership in science, technology, and innovation.

OSTI has a renewed focus on providing comprehensive access to the results of the Department of Energy (DOE) research and development (R&D) investments. Specifically, we have streamlined the portfolio of our public-facing web products to make it easier to find DOE's R&D results. A major aspect of quality in federal scientific information collections and portals is comprehensiveness; that is, that they reflect the complete R&D output of DOE. To that end, we have re-balanced OSTI resources to put more emphasis on comprehensiveness across all forms of scientific and technical information (STI) we acquire from DOE's research efforts.

Committed to innovation and creativity, this strategic plan focuses on DOE R&D results by organizing its goals around the sequential and process-oriented nature of OSTI's business. Specifically, Goal 1 focuses on the acquisition of STI through a variety of techniques. Goal 1 is ultimately what makes DOE accountable to the public for the outcomes of its R&D investment. It drives the quality and comprehensiveness of everything OSTI has to offer in our dissemination products. Goal 2 focuses on the long-term preservation of DOE R&D results, a 70-year collection of nearly 1.5 million STI papers and electronic files. Goal 3 focuses on the unique world of DOE classified, controlled, and sensitive R&D results and OSTI's work in providing secure information acquisition, preservation, and dissemination services to the DOE and National Nuclear Security Administration (NNSA) communities. Goal 4 reflects the "face" of OSTI that most of the public sees, which is the "output" or dissemination of DOE unclassified R&D results. Goal 5 is intentionally heterogeneous. On the one hand, it covers the well-defined infrastructure and business processes that are essential to Goals 1 through 4. On the other, it is open-ended and committed to flexibility as opportunities for new collaborations and business lines emerge. These may include cost-reimbursable projects for DOE and other federal agencies, or, with DOE's support, new mission responsibilities.

An extremely exciting element of this plan is implementation of public access to the peer-reviewed scholarly publications resulting from DOE R&D funding. DOE's lab and grantee scientists produce around 25,000 peer-reviewed accepted manuscripts per year, which are published as articles in leading scientific journals. Working with the DOE author community, as well as in collaboration with publishers and other stakeholders, OSTI will provide free, public access to these papers after a brief administrative interval. This broadened access will serve to accelerate scientific advancements and commercial innovation.

This plan is intended to give us strategic focus and discipline, but it is fluid and dynamic and will be adapted and updated as unforeseen conditions and opportunities arise. Above all, we are committed to serving DOE and the American public, and we will listen, respond, and act in their interest.

Brian Hitson
Director

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Vision

The Office of Scientific and Technical Information (OSTI) will fulfill a critical U.S. Department of Energy (DOE) mission to ensure long-term preservation of and access to the results of DOE research and development (R&D) investments. Across the full spectrum of DOE R&D programs, OSTI will provide accountability for all DOE scientific and technical information—in its many forms—through electronic, efficient, and user-friendly tools and technology.

Mission

To advance science and sustain technological creativity by making R&D findings available and useful to DOE researchers and the public.



Accountability

Access

Preservation

Comprehensiveness

Collaboration

Visibility

Goals

Goal 1

Accountability for DOE Unclassified R&D Results— Collection, Acquisition

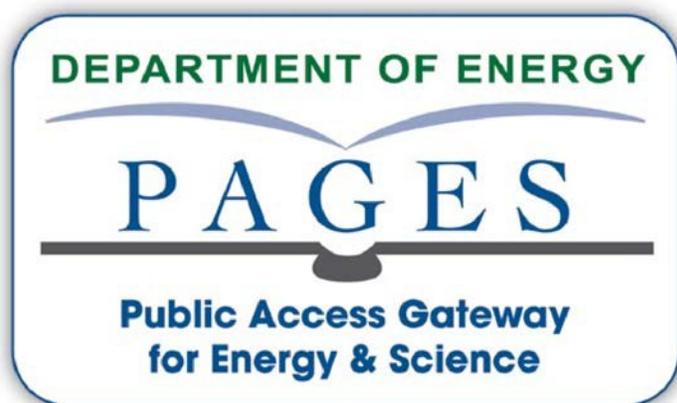
Comprehensiveness and the acquisition of emerging or previously unavailable DOE scientific and technical information (STI) are focal points for OSTI over the next five years. OSTI intends to continuously improve comprehensiveness by identifying gaps in the submissions of text-based STI and closing those gaps. One of the major accomplishments will be the acquisition of metadata and links to full-text articles and accepted manuscripts resulting from DOE research funding. In the past, the full text of most scholarly articles has only been available to those with subscription access to the journals publishing those articles. In addition to text-based STI such as technical reports and conference papers, software, datasets, and multimedia represent non-text forms of STI that are currently announced, though in limited quantity, in OSTI's databases. Expanding coverage and increasing access to software, multimedia and datasets are also areas where OSTI will focus efforts.

Strategic Objective 1.1

Implement the Acquisition Aspects of DOE Public Access Plan for Scholarly Publications

In support of the U.S. government initiative to increase public access to the results of federally-funded scientific research, OSTI will establish the DOE Public Access Gateway for Energy and Science (DOE PAGES), a product with accompanying processes to ensure long-term preservation and public access at the appropriate time to full-text scholarly publications resulting from DOE funding. Leveraging the existing DOE Scientific and Technical Information

Program (STIP) to ensure author submissions of accepted manuscripts, complemented by the Clearinghouse for the Open Research of the United States (CHORUS) and other external



collaborations, OSTI will secure the ingest of DOE-affiliated accepted manuscripts; maintain an archive for these full-text documents; and provide access to the best available version to ensure public access into the future.

Strategic Objective 1.2

Target Comprehensive Electronic Submission of Technical Reports and Other Text-based Forms of STI

The growth, complexity, and geography of organizations across the DOE complex require a correspondingly diverse and agile STIP to effectively account for the results of DOE R&D investments. Recently, STIP has improved by engaging more active program office representation, and it will continue to adapt to new research and funding mechanisms. Working with the STIP community, OSTI will identify and analyze apparent gaps in textual STI submissions, including technical reports, conference proceedings and workshop reports, program documents, etc., with the goal of institutionalizing practices to promote comprehensive availability of unclassified R&D results.

Strategic Objective 1.3

Increase Volume of Searchable Software, Multimedia, and Other Forms of STI

Working with the STIP and others across the DOE complex, OSTI will ensure regular, timely submission and a greater volume of indexable software, multimedia, and other forms of STI. Scientific software and code are integral parts of the modern research landscape, and OSTI will develop modern tools to integrate DOE-funded software into its diverse STI collections. STI content in videos, webinars, and audio files is also becoming increasingly common, and the conventional notion of an “article” is shifting as multimedia is embedded in traditional text products and other advanced “containers” of STI, creating interactive content. OSTI will acquire DOE’s scientific multimedia output and apply innovative techniques in integrating it with related STI.

Strategic Objective 1.4

Increase Acquisition, Registration, and Usability of DOE R&D Datasets

The DOE Data ID Service assigns Digital Object Identifiers (DOIs) to the Department’s datasets and enables researchers to link their publications to the underlying data. In addition to leveraging visibility and retrievability, this service helps to ensure that critical datasets will be available for use by future scientists. OSTI will demonstrate the multi-faceted value of data citation and greatly increase the number of datasets registered over the next five years. OSTI will also explore ways to better serve the data community through workshops and continuous engagement with data scientists.

Goal 2

Long-term Preservation of DOE R&D Results

The short-term plan over the next five years will ensure the long-term positioning over decades to come of reliable and accessible DOE scientific and technical information, or R&D results. This goal focuses on maximizing partnerships throughout the DOE complex to increase availability of legacy content in industry standard electronic formats and to ensure implementation of best practices for preservation of public access to DOE scientific and technical information (STI). During this time, OSTI will lay the groundwork for curation and protection of DOE information through inevitable technology shifts and potential incidents or disasters.

Strategic Objective 2.1

Increase Digitization of Legacy Holdings through Partnership and Collaboration

Partnerships and other collaborative efforts targeting digitization of legacy holdings are key to meeting this objective. Roughly two-thirds of past DOE R&D output is not available in an electronic format. To reduce duplicative efforts and move an organized preservation effort forward across the complex, OSTI will take the lead in coordinating this preservation. OSTI will leverage the digitization efforts at other organizations and combine them with OSTI's efforts, thereby maximizing Departmental resources, ensuring common standards, and increasing long-term preservation of DOE R&D results.

Strategic Objective 2.2

Support Preservation and Interoperability through Migration and Technology Changes

Standards and trends in how STI is collected, stored, and accessed continue to change and evolve, roughly at a pace supported by advances in the underlying technologies. To ensure long term usability and interoperability of DOE R&D results, and to provide ongoing access and interaction with these various data formats, OSTI will continually evaluate and proactively adopt and integrate new technologies, and when applicable, migrate historic collections to current, accessible, and standardized formats.

Strategic Objective 2.3

Preserve DOE STI Hosted in a Distributed Environment through Dark Archiving

OSTI will employ dark archiving practices as a Departmental backup and storage area to house the working copy of resources. In addition to ensuring long-term preservation, this will allow for facilitation of processing internal requirements and business rules, such as improved searchability by allowing full-text indexing. OSTI plans to work with DOE sites and other institutions to implement and validate dark archiving of institution-hosted full-text documents. The dark archive will ultimately provide long-term, permanent access to any distributed DOE STI no longer available through its original source.

Strategic Objective 2.4

Ensure Preservation of Unclassified DOE R&D Results through Validated Testing of Disaster Recovery and Contingency Plan Elements

OSTI will maintain a backup and recovery strategy to ensure both preservation and availability of DOE R&D results. Chief among the strategy is a Disaster Recovery (DR) site, which is a warm site that mirrors data at a secondary location at near real-time and is equipped with partial dissemination services.

Over the next five years, OSTI will optimize contingency and disaster recovery times to ensure preservation of unclassified DOE R&D results by continuing to modernize and evaluate proven DR strategies and infrastructure. Contingent on strategic and economic benefits, OSTI will leverage a combination of locally-hosted and cloud preservation solutions.



Goal 3

Collection, Protection, Preservation, and Secure Access to Classified DOE R&D Results, Unclassified Controlled Nuclear Information (UCNI), and Controlled Unclassified Information (CUI)

OSTI has the responsibility to collect, preserve, and protect DOE and NNSA classified R&D information, Unclassified Controlled Nuclear Information (UCNI), and Controlled Unclassified Information (CUI) in accordance with all applicable laws, regulations, and national security requirements. OSTI's classified program contributes to the Department's responsibility to a) identify nuclear weapons-related information that must be protected to prevent adversaries from developing weapons of mass destruction, b) assist in non-proliferation initiatives, and c) protect overall national security interests. A partner-focused Classified Scientific and Technical Information Program (STIP) will enhance the comprehensiveness and acquisition of emerging or previously unavailable classified and UCNI Scientific and Technical Information (STI). Over the next five years, OSTI will provide unique and secure STI management solutions using innovative technical and information security concepts to assure authorized access that incorporates appropriate clearance, coordinated approvals, and required need-to-know elements. In addition, OSTI will participate in the formulation of agency guidance for CUI in support of Executive Order 13556.

Strategic Objective 3.1

Achieve Comprehensive Electronic Submission of Classified and UCNI STI Metadata

In the next five years, OSTI will focus on implementing a more partner-focused OSTI Classified STIP, which will encompass participation and support from a multitude of stakeholders across the DOE complex, including the major NNSA design laboratories and production facilities and DOE and NNSA headquarters program and site offices. While OSTI will accept full-text classified STI, OSTI's focus will be on comprehensively acquiring metadata for all classified STI and developing a secure metadata catalog. OSTI's metadata acquisition, in partnership with stakeholders, will provide a critical resource for the Classified R&D community.

Strategic Objective 3.2

Deploy Secure, Need-to-Know-Based Search and Retrieval for Classified and UCNI STI Metadata

In support of the Department's strategic national security objectives, OSTI maintains an extensive and expanding collection of classified and UCNI metadata, in addition to a significant

collection of full-text classified R&D reports. OSTI is committed to protecting and securely sharing this collection. In support of this commitment, and in coordination with Departmental stakeholders, OSTI will develop a metadata search functionality where full-text can be obtained from the originating site by those with the proper clearance and need-to-know. For full-text reports in the OSTI collection, OSTI will coordinate with authorized requestors in accordance with established guidelines. Secure access and protection of information will be cornerstones of this comprehensive need-to-know-based search product for classified and UCNI STI metadata.

Strategic Objective 3.3

Ensure Preservation of Classified R&D Information and UCNI through Validated Testing of Disaster Recovery and Contingency Plan Elements

OSTI will maintain a backup and recovery strategy to ensure both preservation and availability of classified DOE R&D results. Over the next five years, OSTI will optimize contingency and disaster recovery times by continuing to modernize and evaluate proven DR strategies and infrastructure.

Strategic Objective 3.4

Develop Specialized Information Tools and Services to Support NNSA and DOE

Beyond OSTI's corporate responsibility to collect and provide secure access to DOE's classified R&D results, OSTI will provide specialized information services to NNSA and other DOE stakeholders across the subject areas of a) weapons, b) reactor technology, c) fuel cycle technology, and d) isotope separation, as well as a range of other subject areas and major historical programs, such as the Manhattan Project.

Strategic Objective 3.5

Life-Cycle Management of Controlled Unclassified Information (CUI)

In addition to collecting, preserving, and protecting classified information, OSTI has the responsibility for information that is unclassified but still considered sensitive. OSTI maintains an extensive collection of CUI, and OSTI is committed to managing and protecting this information according to all national and Departmental requirements. Executive Order (E.O.) 13556 calls for a government-wide uniform program to identify and protect sensitive but unclassified information, and additional guidance at the Agency level is to be established. Major accomplishments for this OSTI objective will be the ongoing acquisition of CUI metadata and associated STI products resulting from DOE research funding, merged with implementation of new Agency guidance related to OSTI's responsibilities.

Goal 4

Maximum Use and Visibility of DOE R&D Results

OSTI will support DOE goals and objectives to ensure advancement of America's leadership in science and energy, particularly through maximizing the use and visibility of DOE's R&D results. OSTI will explore new ways to broadly identify, define, and understand our users and their needs, and to increase the visibility of DOE scientific and technical information (STI) through both our products and communication activities. OSTI will increasingly integrate the scope, diversity, and depth of available content and broaden the approaches researchers, policy makers, and the public take to use DOE R&D results. By leveraging current and emerging partnerships to increase awareness of, and support for, DOE's R&D results, OSTI will showcase innovative DOE methods for increasing public access.

Strategic Objective 4.1

Ensure High Visibility and Use of the DOE Public Access Model—DOE PAGES

Like all federal science agencies, DOE, through OSTI, is implementing public access to the full text of government funded scholarly publications resulting from DOE research funding. OSTI will ensure the value and cohesiveness of DOE's science and energy R&D programs, as stated in the DOE 2014–2018 Strategic Plan, by “increasing no cost public access to Departmental research, especially journal literature and scientific data, to accelerate discovery through the sharing of scientific knowledge.” (Goal 1, Strategic Objective 3, Page 11.) Ensuring high visibility of this new resource and that the access policies and embargo periods are clearly defined and explained are part of the responsibilities OSTI will meet as it launches the Public Access Gateway for Energy and Science (DOE PAGES).

Strategic Objective 4.2

Develop and Benchmark OSTI Products as “Best in Class” from Government, Academia, and Industry

Over the next five years, OSTI will better identify our users and their needs in order to more effectively disseminate DOE R&D results through leading-edge products. OSTI will increase access to DOE R&D and help the Department maximize return on investment, reduce duplication of research efforts, evaluate research program impact, and encourage collaboration and innovation.

OSTI will further streamline and consolidate its product portfolio, seeking a unified environment where diverse but related research outputs (i.e., text, software, data, multimedia, etc.) are interlinked and discoverable from a single interface.

OSTI has historically operated the Energy Science and Technology Software Center. Improvements to ensure comprehensive content, along with a reinvention of the service and product itself, are needed to keep pace with current and future advancements in the software arena. With the rise of open source software and the proliferation of social collaboration networks, OSTI will introduce a more robust, community-focused software management system (“DOE CODE”).

OSTI is committed to implementing user feedback to guide development and changes to OSTI products, including:

- OSTI’s website **OSTI.GOV**, which will become the consolidated search engine for publicly-available technical reports, bibliographic citations, journal articles, conference papers, books, software, multimedia, and data information sponsored by DOE and its predecessor agencies from the 1940s to today.
- **DOE Data Explorer (DDE)**, a search tool for finding DOE-funded, publicly available, scientific data submitted by data centers, repositories, and other organizations funded by the Department. DDE includes data Project, data Collection, and individual Dataset records. This collection was developed as a way to guide users to publicly-available DOE-sponsored data, and consists of non-text information including numeric files, figures or data plots, images, and multimedia.
- **DOE CODE**, which will be a modern DOE software submission and search tool connecting researchers in meaningful ways to their software, data, and research documents; embracing open source; not duplicating but complementing existing community practices and platforms; providing for social coding; and enabling social media that incorporates sharing and notification systems for software news and updates as well as links to author profiles.
- **ScienceCinema**, a collection of videos produced by the DOE national laboratories, other DOE research facilities, and the European Organization for Nuclear Research (CERN). Using innovative, state-of-the-art audio indexing and speech recognition technology from Microsoft Research, ScienceCinema allows users to search for specific words and phrases spoken within video files to deliver precision searching already common in text-based databases.

With OSTI.GOV serving as the comprehensive, flagship search for all STI types, a small number of complementary STI-specific products will serve niche audience needs. OSTI will evaluate all

products in terms of uniqueness and value to the public or its specialized audience. OSTI will strive for excellence in development, implementation, and placement of core DOE information products at the forefront of government, academia, and industry. OSTI will engage with core user groups to improve search interface and functionality, and will integrate new and beneficial technologies into search products to ensure that our products evolve to meet future customer needs.

A key aspect of any “Best in Class” product depends on the quality of its content, including metadata. OSTI recognizes that a lack of quality metadata impacts the user experience, from visual perceptions to not finding accurate search results. OSTI will evaluate its metadata collection and previous user feedback to identify opportunities for quality improvements; document and share what constitutes quality metadata; prioritize and set a roadmap for implementing improvements; and set the stage for high-quality future metadata receipts. A key component of OSTI’s metadata strategy will be the addition of “related identifiers,” such as URLs or DOIs that serve as links to related research objects (e.g., papers, datasets, and software).

Combining high-quality metadata, including related identifiers, along with innovative technologies for extracting content from full text, OSTI will present comprehensive search results that reflect the diverse range of related research outputs relevant to a particular search.

Strategic Objective 4.3

Leverage Partnerships to Extend the Impact of DOE R&D

During the next five years, OSTI will advance DOE R&D priorities by continuing partnerships with DOE programs, other federal agencies, international entities, and public and private connections to maximize availability of STI. Key engagements include the interagency collaboration Science.gov, which will efficiently federate the search of agencies’ STI collections and new public access to scholarly publications and digital data. Internationally, OSTI will also extend the reach and impact of DOE research results through WorldWideScience.org.

Strategic Objective 4.4

Establish Communications as a Driver of Visibility

Over the next five years, OSTI will implement a strategic communications program that will expand OSTI’s key stakeholders’ awareness of its DOE STI products, enhance their appreciation of the extensive range and types of DOE R&D results that OSTI makes available, and thereby lead them to increase their usage of DOE OSTI R&D offerings. The OSTI communications program will emphasize the wide range, usefulness, and currency of the R&D results it collects, preserves, and makes accessible. Focusing on DOE R&D results and how the public can efficiently access those results, OSTI communications will work to drive the visibility of—and

increase the traffic to—its collections of DOE STI and other STI of value to DOE-affiliated researchers.

OSTI will work to bolster outreach to OSTI’s key stakeholders, both STI providers and consumers. These include researchers affiliated with DOE; DOE and its program, field, site and procurement offices, national laboratories, and research facilities; research universities and libraries; scientific professional societies; other federal science agencies and international science organizations; and other STI community partners.

OSTI will communicate through streamlined and modern tools, including the OSTI website, OSTI news items, blogs, and visual and social media.

Goal 5

Strong Foundations, Partnerships, and Agility

The ambitions and vision reflected in Goals 1 through 4 can only be realized through OSTI's workforce and infrastructure. Goal 5 is a commitment to provide the leadership, human resources, technology and physical infrastructure, and business processes as a solid foundation to support Goals 1 through 4.

Beyond its foundational purpose, Goal 5 is also an acknowledgement that OSTI's past and future success is built around a commitment to partnership—within DOE, with other federal agencies, with international partners, with the private sector and academia, and with OSTI's local community in Oak Ridge, Tennessee.

Finally, Goal 5 is an acknowledgement that Goals 1 through 4 are not omniscient; we do our best to forecast conditions and opportunities for the next five years, but realistically, our ability to foresee past the next 18–24 months is limited. Goal 5 is a symbolic placeholder for the potential new business lines, collaborations, and innovations OSTI could undertake. Of course, any new efforts we initiate will complement (rather than compete with) our core mission responsibilities, and these efforts will only be undertaken with the support of DOE or with the financial support of cost-reimbursable funding.

Because of the heterogeneous and somewhat speculative nature of Goal 5, its structure differs from Goals 1 through 4. In place of that structure, the following tenets or components are offered:

- Leadership and organizational structure that clearly defines vision and performance expectations and facilitates efficient operations and camaraderie.
- Frequent and effective internal and external communications that reinforce organizational direction and cohesiveness.
- A technology and cyber infrastructure that serves both OSTI's programmatic requirements and internal business needs.
- A physical infrastructure that provides a safe, secure, efficient, and healthy environment for OSTI's workforce and information assets.
- A diverse and talented federal workforce committed to public service and the OSTI mission.
- Contractors invested in and committed to OSTI's success.

- Active, entrepreneurial cost-reimbursable services that meet the specialized needs of OSTI customers and are compatible with the OSTI mission.
- Symbiotic partnerships with other DOE organizations, other federal agencies, international partners, academia, and the private sector to complement OSTI's resources and capabilities.

Glossary

Accepted Manuscript

The final peer-reviewed manuscript which includes the same content as the published article.

AEC

Atomic Energy Commission, a predecessor agency to the Department of Energy.

CHORUS

Clearinghouse for the Open Research of the United States, a partnership conceived by publishers to increase public access to peer-reviewed publications from federal agencies. www.chorusaccess.org

Dark Archiving

In reference to data storage, an archive which is not publicly accessible, but provides permanent preservation and can be made accessible if needed.

DOE

The U.S. Department of Energy, governmental agency whose mission is to ensure America's security and prosperity by addressing its energy, environmental and nuclear challenges through transformative science and technology solutions. www.energy.gov

DOE O 241.1B

Official DOE directive with the purpose to ensure that STI is appropriately managed as part of the DOE mission to enable the advancement of scientific knowledge and technological innovation.

DOE CODE

DOE software submission and search tool connecting researchers to software, data and research documents. www.osti.gov/doecode

DOE Data Explorer (DDE)

A portal to collections of publicly available, DOE-sponsored data and other non-text information. www.osti.gov/dataexplorer/

DOE PAGES

The U.S. Department of Energy's Public Access Gateway for Energy and Science, a portal to scholarly publications, including peer-reviewed journal articles and accepted manuscripts, resulting from DOE-funded research. www.osti.gov/pages/

DOI

Digital Object Identifier, a persistent identifier using a character string to uniquely identify an electronic document. www.doi.org

ERDA

Energy Research and Development Administration, a predecessor agency to the U.S. Department of Energy.

Executive Order 13556

Establishes an open and uniform program for managing information that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Government-wide policies, excluding information that is classified under Executive Order 13526 of December 29, 2009, or the Atomic Energy Act, as amended.

Export Controlled Information

Information protected by federal laws and regulations that restrict the flow of certain materials, devices, and technical information related to such materials and devices outside the United States.

Hot site/Warm site

Duplicate of the original site of the organization, with full computer systems as well as near-complete backups of user data.

NNSA

National Nuclear Security Administration, a semi-autonomous agency within the U.S. Department of Energy responsible for enhancing national security through the military application of nuclear science.
nnsa.energy.gov

Official Use Only

Category of sensitive unclassified information whose release to the wrong person could damage Governmental, commercial, or private interests.

OSTI

Office of Scientific and Technical Information, the DOE office that collects, preserves, and disseminates DOE sponsored R&D results that are the outcomes of R&D projects or other funded activities at DOE laboratories and facilities nationwide and grantees at universities and other institutions. www.osti.gov

OSTI.GOV

OSTI's website and planned consolidation for unified search of all STI types.

SC

Office of Science, a program office within the U.S. Department of Energy.
science.energy.gov

ScienceCinema

An OSTI search product for scientific and technical information multimedia, providing speech mapping search technology.
www.osti.gov/sciencecinema/

Science.gov

A federated search portal of U.S. government science agencies. www.science.gov

Semantic Search

A search technique known as keyword-to-concept mapping. Used by OSTI products, keyword-based queries are searched and concept-mapped queries are returned—as in a taxonomy; a search term is mapped to other associated terms, including narrower and related concepts.

STI

Scientific and technical information.

STIP

Scientific and Technical Information Program, a collaboration from across the DOE complex working to ensure that the results of DOE-funded research and development (R&D) and other science and technology activities are identified, disseminated, and preserved.
www.osti.gov/stip/

WorldWideScience.org

A federated search portal of science sources from around the world.
www.worldwidescience.org



Speeding access to science information from DOE and beyond

www.osti.gov

This report is available at:

www.osti.gov/publications