

# National Geothermal Data System (NGDS)

NGDS is a catalog of documents and datasets that provide information about geothermal resources within the United States, including information from other parts of the world, used to:

- Determine geothermal potential
- Guide exploration and development
- Make data-driven policy decisions
- Minimize development risks
- Understand how geothermal activities affect your community and the environment;
- Guide investments

<http://geothermaldata.org/>

The screenshot shows the NGDS website interface. At the top, there are navigation links for Home, Sign Up, Login, and Help. The main header includes the NGDS logo and the tagline "YOUR PORTAL TO GEOTHERMAL DATA". Below the header, there are four main sections: MAP (Find data for a specific geographic area), LIBRARY (Look up data, images, publications & more), RESOURCES (Discover tools and models for geothermal exploration and development), and CONTENT (View Harvested Sources). A central banner features a "Featured Partner" section with a video thumbnail titled "USGS Energy Resources Program Geothermal". Below this, there is a "Data Updates" section with a list of recent publications, including "Selection and characterization of a radon experimental site" and "Compiled Database of Geothermal Resource Assessment for New York State and Pennsylvania". A "Training" section is also visible, offering resources for curating data contributions and developing custom applications. On the right side, there is a "Featured Node" section for "Data Providers & Web Developers" with a call to action to "Learn how to host your data and contribute to the NGDS." and a link to "Try Version 1 of the NGDS CKAN Node installation." A "Free software for data providers" callout is also present. The footer includes the U.S. Department of Energy logo and the text "Energy Efficiency & Renewable Energy".

**Access to 9 million datapoints**

**Tools and Models**

**Newest Submissions**

**Featured Node**

**Training**

**Free software for data providers**

# Federal Open Data Policy

## *How does NGDS stack up?*

Open Data Policy Requirements	NGDS Capabilities
Domain: all federal agency data; all research data funded by federal agencies	Works for all digital data
Legal Status: Executive Order	DOE-GTO funded
Public access at no cost	X
Searchable/ discoverable	X
Interoperability	X
Scalability	X
Metadata core requirements	X
Open Source	X
Assistance/Education for data creators and end users	X
Community building efforts	X
Description Requirements (What info, access requirements)	X

**In FY13, the number of data items in the DOE Geothermal Data Repository has increased**

<b>GTO Program Area</b>	<b>FY12 Data Items</b>	<b>FY13 Data Items</b>
Enhanced Geothermal Systems	12	128
Innovative Exploration Technologies	0	19
Low-Temperature Co-Produced Resources	17	38
Systems Analysis	0	7
Ground Source Heat Pumps	0	28

# Federal Guidance – Open Data Policy

## Managing Information as an Asset

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

THE DIRECTOR  
May 9, 2013

M-13-13  
MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Sylvia M. Burwell, Director  
Steven VanRoekel, Federal Chief Information Officer  
Todd Park, U.S. Chief Technology Officer  
Dominic J. Mancini, Acting Administrator, Office of Information and Regulatory Affairs

SUBJECT: Open Data Policy—Managing Information as an Asset

Information is a valuable national resource and a strategic asset to the Federal Government, its partners, and the public. In order to ensure that the Federal Government is taking full advantage of its information resources, executive departments and agencies (hereafter referred to as "agencies") must manage information as an asset throughout its life cycle to promote openness and interoperability, and properly safeguard systems and information. Managing government information as an asset will increase operational efficiencies, reduce costs, improve services, support mission needs, safeguard personal information, and increase public access to valuable government information.

Making information resources accessible, discoverable, and usable by the public can help fuel entrepreneurship, innovation, and scientific discovery – all of which improve Americans' lives and contribute significantly to job creation. For example, decades ago, the Federal Government made both weather data and the Global Positioning System (GPS) freely available to anyone. Since then, American entrepreneurs and innovators have used these resources to create navigation systems, weather newscasts and warning systems, location-based applications, precision farming tools, and much more.

Pursuant to Executive Order of May 9, 2013, *Making Open and Machine Readable the New Default for Government Information*, this Memorandum establishes a framework to help institutionalize the principles of effective information management at each stage of the information's life cycle to promote interoperability and openness. Whether or not particular information can be made public, agencies can apply this framework to all information resources to promote efficiency and produce value.

Specifically, this Memorandum requires agencies to collect or create information in a way that supports downstream information processing and dissemination activities. This includes using machine-readable and open formats, data standards, and common core and extensible metadata for all new

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