EDX

Energy Data eXchange
Quick Guide - 2013

What is the Energy Data eXchange?

The Energy Data eXchange (EDX) is an online system to support internal coordination and collaboration as well as timely tech transfer of data-driven products across NETL's research portfolios.

1. EDX coordinates historical and current data and information from a wide variety of sources to facilitate internal access to research that crosscuts multiple **NETL projects/programs**.
2. EDX is comprised of an outward-looking half which serves as a tool to disseminate information about **NETL ORD R&D portfolios**, as well as **publically available** data and data driven products (e.g. **EDXtools**) that share the results of **NETL Support R&D**.
3. An inward-looking half allows registered users with access dependent on their credentials, to select search tools and utilize secure **Collaborative Workspaces** to improve the efficiency and access to data and key information from a wide variety of sources.
4. EDX's mission is to develop and implement a secure system for facilitating access to common data needs among **NETL** research teams in order to improve efficiency, promote collaboration, and facilitate tech-transfer of technical products.

Why was EDX created?

1. **NETL** recognized a need to improve coordination and reliable access to information and research products for our own research teams and amongst our collaborators, as well as improve dissemination (tech transfer) of research-driven products.
2. By improving the efficiency of data access and data sharing, EDX will facilitate a more rapid and comprehensive utilization of key data needs that crosscut multiple **NETL** projects/program areas (CO_2 storage, unconventional and conventional hydrocarbon systems, natural gas hydrates, etc.).

Who will use EDX?

Primary users of EDX are **NETL Researchers** (**NETL research teams**) actively engaged in work relevant to subsurface, near surface, atmospheric, and environmental risk issues relating to subsurface CO_2 storage, unconventional and conventional hydrocarbons, and ground water and air emission impacts.

What is Current News?

EDX News includes news relevant to energy research and energy issues from reputable sources. If you have suggestions for applicable news to be posted on EDX, please send a link to **EDXnews@netl.doe.gov**.

How do I search EDX?

1. Registered and non-registered users can **search** EDX.
2. **Searches** can be performed by providing **keywords** in the **search** field.
3. **Search results** can be filtered by fields on the left side of the page.
4. Only **registered users** of EDX can download data from EDX.

How do I register for EDX?

1. On the Home page select the **Join Now** button in the top right corner of the screen.
2. Complete the required **Registration Form**.
3. Applicants with an NETL or contractor NETL E-Mail address will be granted instant access to EDX.
4. If an applicant does not have an NETL or contractor NETL E-Mail address they must provide an **NETL Point of Contact (POC)**.
5. An **NETL POC** must validate the user's credentials and ensure they are associated with NETL research.
6. Under no circumstances will a non-NETL employee be granted an account on EDX until **EDXsupport** receives confirmation from an **NETL POC**.

How do I reset my password?

1. Select the **Log In** button in the top right corner of the Home page.
2. Select the **Recover Password** button on the left side of the page.
3. Enter your Username and select the **Request Reset**.

How do I recover my username?

Contact **EDX Support** at **EDXSupport@netl.doe.gov**.

Who do I contact for any questions about EDX?

Contact **EDX Support** at **EDXSupport@netl.doe.gov**.

EDX Quick Guide

How do I contribute data?

OPEN ACCESS DATA

1. Select the **Contribute** tab at the top of the page.
2. Complete the required **Attributes Characteristics and Keywords (ACK)** of the contribution.
3. Upon completion, the contribution will be reviewed by a Data Reviewer to determine if the contribution is a valid addition to EDX.

RESTRICTED ACCESS DATA

1. Select the **My Workspaces** tab at the top of the page.
2. Select the appropriate **Collaborative Workspace** that you would like your restricted access dataset to reside.
3. If there is not an appropriate **Collaborative Workspace** available you can create a new one by selecting the **Add Collaborative Workspace** button.
4. Complete the required **ACK** of the contribution.
5. Upon completion, the contribution will be immediately available in the **Collaborative Workspace**, no further review is required.
6. If at any time the submission should need to be available as open access select the dataset in the **Collaborative Workspace** and select the **Push to Public** button.
7. Upon completion, the contribution will be reviewed by a Data Reviewer to determine if the contribution is a valid addition to EDX.

How is data reviewed?

OPEN ACCESS DATA REVIEW

1. All open access data contributions are reviewed by subject matter experts (**Data Reviewers**) prior to their inclusion in EDX.
2. **Data Reviewers** perform a step-by-step review of the contribution to ensure that it meets all of the criteria to be included in EDX.

RESTRICTED ACCESS DATA REVIEW

1. All restricted access data contributions are managed by **Collaborative Workspace Administrators**.
2. A formal review of the data is not completed by a **Collaborative Workspace Administrators** but at any time they may modify or delete a contribution.

What are EDXtools?

1. **EDXtools** provide access to data and information assembled as custom theme of high interest.
2. **EDXtools** are standard, static, frameworks; however, the data presented within them may update and change with time, thus offering fresh and current information.
3. **EDXtools** may accommodate spatial and/or non-spatial data.
4. Some **EDXtools** are designed to allow **EDXtools** to communicate with EDX servers to allow for searching, querying, and displaying data.
5. Contact **EDXsupport** if you would like to learn more about **EDXtools**.

What is an EDXportfolio?

1. An **EDXportfolio** offers an overview of key DOE-FE/NETL R&D programs and research.
2. As these R&D portfolios mature, key data-driven products (reports, datasets, EDXtools, etc.) produced by these efforts will be released via EDX and highlighted in each program's **EDXportfolio** page.
3. Contact **EDXsupport** if you would like to learn more about **EDXportfolios**.

What are ACKs?

1. **ACKs** are the attributes, characteristics, and keywords of the data or external links stored in the EDX database.
2. **ACKs** serve as the building blocks for EDX and are utilized to compile search results.
3. **ACKs** are metadata and are utilized to compile the search results that are returned by EDX.

How can I create a Group?

1. Select the **Group** tab at the top of the page.
2. If you determine that there is not already a **Group** that matches your criteria select the **Add Group** button.
3. Complete the required fields of the **Group** creation form.
4. The contribution will be reviewed by a **Group Reviewer** to determine if the **Group** is a valid addition to EDX.

How can I create a Collaborative Workspace?

1. Select the **My Workspaces** tab at the top of the page.
2. Select the **Add Collaborative Workspace** button.
3. Complete the required fields of the **Collaborative Workspace** creation form and select the **Create a Collaborative Workspace** button.