EDX®
Energy Data eXchange

THE VIRTUAL RESOURCES OF FOSSIL ENERGY

EDX is the Department of Energy (DOE)/Fossil Energy's (FE) virtual data collaboration and curation platform for data-driven technology development. Developed and maintained by the National Energy Technology Laboratory (NETL), EDX both publishes and curates research products to enable technology transfer while supporting secure, private, multi-institution collaboration for ongoing research projects.

Why Energy Data eXchange?

- To acquire and preserve energy data products, data, and tools
- To enable researchers from multiple organizations to share, build, and collaborate
- To disseminate data, information, and results from DOE's FE research portfolios
- To share and publish online submissions and data products

EDX SUPPORTS THE ENTIRE DATA LIFE CYCLE

Find, Connect, Curate, Use & Re-Use Data to Advance Fossil Energy, Environmental, & Innovative R&D

ACQUIRE – Collect data and prepare for upload

TRANSFER – Upload to EDX, share with collaborators

CLEAN – Organize, annotate, and apply metadata

USE/REUSE – Connect to, analyze, utilize, and re-utilize

PUBLISH – Disseminate, aggregate, and sort

PRESERVE – Index, curate, and archive

EDX BENEFITS

- Preserves over $20 billion in research products
- Enhanced capabilities to support researchers and research teams
- Improving research efficiency by rapidly connecting teams with relevant resources to drive technological breakthroughs

Enduring Access to FE R&D Products

- Adherence to DOE Cyber Security Policies
- Ensures enduring access to federally funded research products
- Providing research authors with registered citation for each R&D product
- Improving discoverability of research products to accelerate future reuse

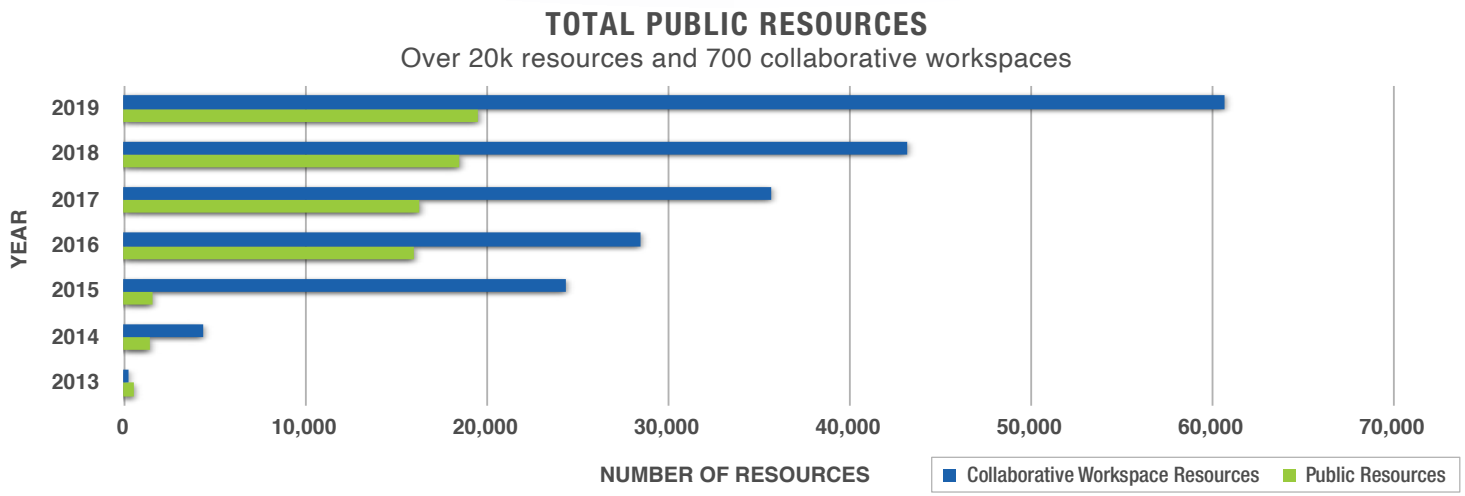
Supports & Virtualizes Ongoing R&D

- EDX supports the life cycle of R&D
- Private sector aligns with DOE policies and protocols
- Virtualizes multi-entity team workspaces to support scientific data-driven needs

edx.netl.doe.gov

U.S. DEPARTMENT OF ENERGY | NATIONAL ENERGY TECHNOLOGY LABORATORY

DATA CURATION



1

Over 1.7M downloads since 2013

2

Follows the standards of DataCite, FAIR Data Principles, and CODATA

3

EDX offers products with a full Datacite.org formatted citation, including DOI number, and ensures long-term preservation of the data

EDX RESOURCES

Connected with:

OSTI.gov
Primary search tool for DOE

Re3data.org
Registry of Research Data Repositories

DataCite.org
Leading global provider of DOIs for research data

OpenEI.org
Open energy information, data, and resources

Data.gov
The US Government's open data

EDX Hosted FE Resource Examples:

eXtremeMAT
Materials for Extreme Environments

Offshore Risk Modeling Tools & Data

GEO CUBE
Web Mapping Application for FE Spatial Data Collections

geo WELL
Subsurface Geologic and Wellbore Information

NRAP National Risk Assessment Partnership
Simulation Tools for Phase I Testing by CCS Research and Industrial Communities

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