

Pumped Storage Facilities

File Geodatabase Feature Class



Tags

Pumped Storage Facilities

Summary

The DOE Global Energy Storage Database provides free, up-to-date information on grid-connected energy storage projects and relevant state and federal policies. For more information contact Sandia National Laboratories and visit <http://www.energystorageexchange.org/>

Description

The DOE Global Energy Storage Database provides free, up-to-date information on grid-connected energy storage projects and relevant state and federal policies. This is a subset of this database representing pumped storage facilities

Credits

Sandia National Laboratories - <http://www.energystorageexchange.org/>

Use limitations

There are no access and use limitations for this item.

Extent

West -121.556359 East -72.471313
North 47.953884 South 33.120000

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE environment, location, utilitiesCommunication

★ CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Hide Topics and Keywords ▲

Citation ▶

* TITLE pump_storage_site

PRESENTATION FORMATS * digital map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME Sandia National Laboratories

Hide Citation Contacts ▲

Resource Details ▶

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

CREDITS

Sandia National Laboratories - <http://www.energystorageexchange.org/>

ARCGIS ITEM PROPERTIES

* NAME pump_storage_site

* LOCATION

* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -121.556359

* EAST LONGITUDE -72.471313

* NORTH LATITUDE 47.953884

* SOUTH LATITUDE 33.120000

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -121.556359

* EAST LONGITUDE -72.471313

* SOUTH LATITUDE 33.120000

* NORTH LATITUDE 47.953884

* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM

* TYPE **Geographic**
* GEOGRAPHIC COORDINATE REFERENCE **GCS_WGS_1984**
* COORDINATE REFERENCE DETAILS
GEOGRAPHIC COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER **4326**
X ORIGIN **-400**
Y ORIGIN **-400**
XY SCALE **999999999.99999988**
Z ORIGIN **-100000**
Z SCALE **10000**
M ORIGIN **-100000**
M SCALE **10000**
XY TOLERANCE **8.983152841195215e-009**
Z TOLERANCE **0.001**
M TOLERANCE **0.001**
HIGH PRECISION **true**
LEFT LONGITUDE **-180**
LATEST WELL-KNOWN IDENTIFIER **4326**
WELL-KNOWN TEXT **GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]**

REFERENCE SYSTEM IDENTIFIER

* VALUE **4326**
* CODESPACE **EPSG**
* VERSION **8.6.2**

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET **geometry only**

GEOMETRIC OBJECTS

FEATURE CLASS NAME **pump_storage_site**
* OBJECT TYPE **point**
* OBJECT COUNT **51**

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME **pump_storage_site**
* FEATURE TYPE **Simple**
* GEOMETRY TYPE **Point**
* HAS TOPOLOGY **FALSE**
* FEATURE COUNT **51**
* SPATIAL INDEX **TRUE**
* LINEAR REFERENCING **FALSE**

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Distribution ►

DISTRIBUTION FORMAT

*NAME File Geodatabase Feature Class

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT [pump_storage_site](#) ►

*TYPE Feature Class

*ROW COUNT 51

FIELD [OBJECTID](#) ►

*ALIAS OBJECTID

*DATA TYPE OID

*WIDTH 4

*PRECISION 0

*SCALE 0

*FIELD DESCRIPTION
Internal feature number.

*DESCRIPTION SOURCE
Esri

*DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

Hide Field [OBJECTID](#) ▲

FIELD [Project_Name](#) ►

*ALIAS Project_Name

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

*FIELD DESCRIPTION
Name of the project

Hide Field [Project_Name](#) ▲

FIELD [Confirmed_Project](#) ►

*ALIAS Confirmed_Project

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

*FIELD DESCRIPTION
Field indicating if Sandia "confirmed" the project.

Hide Field [Confirmed_Project](#) ▲

FIELD [Technology_Type](#) ►

*ALIAS Technology_Type

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The type of energy storage technology used in the project. If possible, select from our pre-determined set values.

Hide Field Technology_Type ▲

FIELD Technology_Type_Category_1 ►

*ALIAS Technology_Type_Category_1

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The type of energy storage technology used in the project. If possible, select from our pre-determined set values.

Hide Field Technology_Type_Category_1 ▲

FIELD Technology_Type_Category_2 ►

*ALIAS Technology_Type_Category_2

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The type of energy storage technology used in the project. If possible, select from our pre-determined set values.

Hide Field Technology_Type_Category_2 ▲

FIELD Rated_Power_in_kW ►

*ALIAS Rated_Power_in_kW

*DATA TYPE Double

*WIDTH 8

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The total possible output from the energy storage system, expressed in kW.

Hide Field Rated_Power_in_kW ▲

FIELD Duration ►

*ALIAS Duration

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The amount of time (in HH:MM) the storage system can output at its rated power capacity.

Hide Field Duration ▲

FIELD Status ►

*ALIAS Status
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The current status of the energy storage project.

Hide Field Status ▲

FIELD Service_or_UseCase_1 ►

*ALIAS Service_or_UseCase_1
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The benefits provided by the energy storage system. Services reference individual benefits and may come from direct market participation or reduced/deferred cost relative to the status quo. Use Cases are groups of (or sometimes individual) services that are provided by a single energy storage system. If possible, select from our pre-determined set values.

Hide Field Service_or_UseCase_1 ▲

FIELD Service_or_UseCase_2 ►

*ALIAS Service_or_UseCase_2
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The benefits provided by the energy storage system. Services reference individual benefits and may come from direct market participation or reduced/deferred cost relative to the status quo. Use Cases are groups of (or sometimes individual) services that are provided by a single energy storage system. If possible, select from our pre-determined set values.

Hide Field Service_or_UseCase_2 ▲

FIELD Latitude ►

*ALIAS Latitude
*DATA TYPE Double
*WIDTH 8
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

Latitude

Hide Field Latitude ▲

FIELD Longitude ►

*ALIAS Longitude

*DATA TYPE Double
*WIDTH 8
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION
Longitude

Hide Field Longitude ▲

FIELD City ►

*ALIAS City
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION
City

Hide Field City ▲

FIELD State_Province ►

*ALIAS State_Province
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION
State or Province

Hide Field State_Province ▲

FIELD Country ►

*ALIAS Country
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION
Country

Hide Field Country ▲

FIELD Description ►

*ALIAS Description
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION
The first 254 characters of the description provided by Sandia

Hide Field Description ▲

FIELD Web_Link ►

*ALIAS Web_Link
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

A link to the primary source for information on the policy/project, or a link to more information about the policy/project.

Hide Field Web_Link ▲

FIELD ISO_RTO ►

*ALIAS ISO_RTO
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The ISO or RTO that manages the grid where the energy storage system is installed, if applicable. In the areas where an ISO is established, it coordinates, controls, and monitors the operation of the electrical power system, usually within a single US State, but sometimes encompassing multiple states. RTOs typically perform the same functions as ISOs, but cover a larger geographic area.

Hide Field ISO_RTO ▲

FIELD Utility ►

*ALIAS Utility
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The utility that administers the grid where the energy storage system is installed.

Hide Field Utility ▲

FIELD Utility_Type ►

*ALIAS Utility_Type
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The type of utility, categorized by ownership.

Hide Field Utility_Type ▲

FIELD Grid_Interconnection ►

*ALIAS Grid_Interconnection
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The level at which an energy resource (such as generation or storage) connects to the grid. An energy resource could be connected at Transmission, Primary Distribution, or Secondary Distribution levels.

[Hide Field Grid_Interconnection](#) ▲

FIELD [Ownership_Model](#) ►

*ALIAS Ownership_Model
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

A description identifying the relationship of the project owner to the project itself.

[Hide Field Ownership_Model](#) ▲

FIELD [Equity_Owner_1](#) ►

*ALIAS Equity_Owner_1
*DATA TYPE String
*WIDTH 255
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The (or one of the) owner(s) of the system, or the entity that holds "title" to the equipment.

[Hide Field Equity_Owner_1](#) ▲

FIELD [Record_Created](#) ►

*ALIAS Record_Created
*DATA TYPE Date
*WIDTH 8
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

Date record was created in database.

[Hide Field Record_Created](#) ▲

FIELD [Last_Updated](#) ►

*ALIAS Last_Updated
*DATA TYPE Date
*WIDTH 8
*PRECISION 0
*SCALE 0

FIELD DESCRIPTION

The date the record was last updated in the database.

[Hide Field Last_Updated](#) ▲

FIELD [Shape](#) ►

*ALIAS Shape
*DATA TYPE Geometry

*WIDTH 0
*PRECISION 0
*SCALE 0
*FIELD DESCRIPTION
Feature geometry.

*DESCRIPTION SOURCE
Esri

*DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field Shape ▲

Hide Details for object pump_storage_site ▲

Hide Fields ▲

Metadata Details ►

*METADATA LANGUAGE English (UNITED STATES)
*METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA *dataset
SCOPE NAME *dataset

*LAST UPDATE 2016-10-10

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-10-07 13:38:43
LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-10-10 07:36:17

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2016-10-10 07:36:17

Hide Metadata Details ▲

Thumbnail and Enclosures ►

THUMBNAIL
THUMBNAIL TYPE JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼