

ENERGYDATA.INFO

Open data and analytics for a sustainable energy future

User Manual

Revised

July 18, 2018

Structure of user manual

- 1 About the platform and partners**
- 2 Managing organizations**
- 3 Uploading and managing datasets**
- 4 Reporting issues and getting in touch**

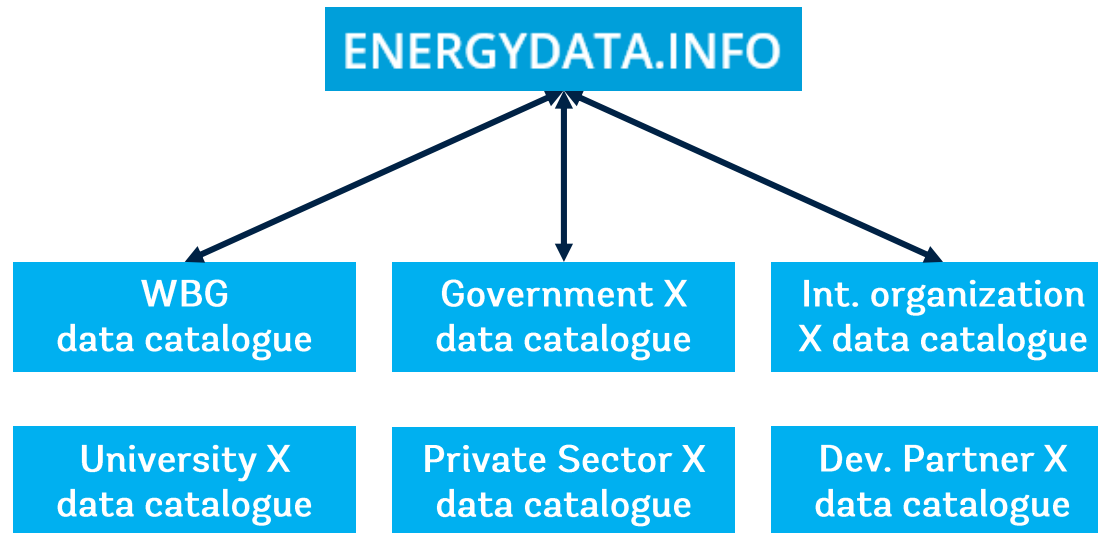
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About energydata.info

- **ENERGYDATA.INFO** is an **open data platform** providing access to datasets and data analytics that are relevant to the energy sector
- It has been developed as a public good available to governments, development organizations, non-governmental organizations, academia, civil society and individuals to **share data and analytics**
- Aimed at supporting the **United Nations' Sustainable Development Goal 7** of ensuring access to affordable, reliable, sustainable and modern energy for all
- The World Bank Group (WBG) strives to **enhance public access** to and use of data that can support development impact. The platform is designed according to open data and open source standards and principles
- It is powered by the **open-source** data portal platform CKAN, and it is developed publicly on GitHub. More information on CKAN and GitHub can be accessed at ckan.org and github.com

Partners and collaboration



- The World Bank Group welcomes the opportunity to collaborate further with data providers and users in making more data, visualizations and tools publicly available. Please contact our team at energydata@worldbankgroup.org

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Organizations, members and access

1 ADDING AN ORGANIZATION

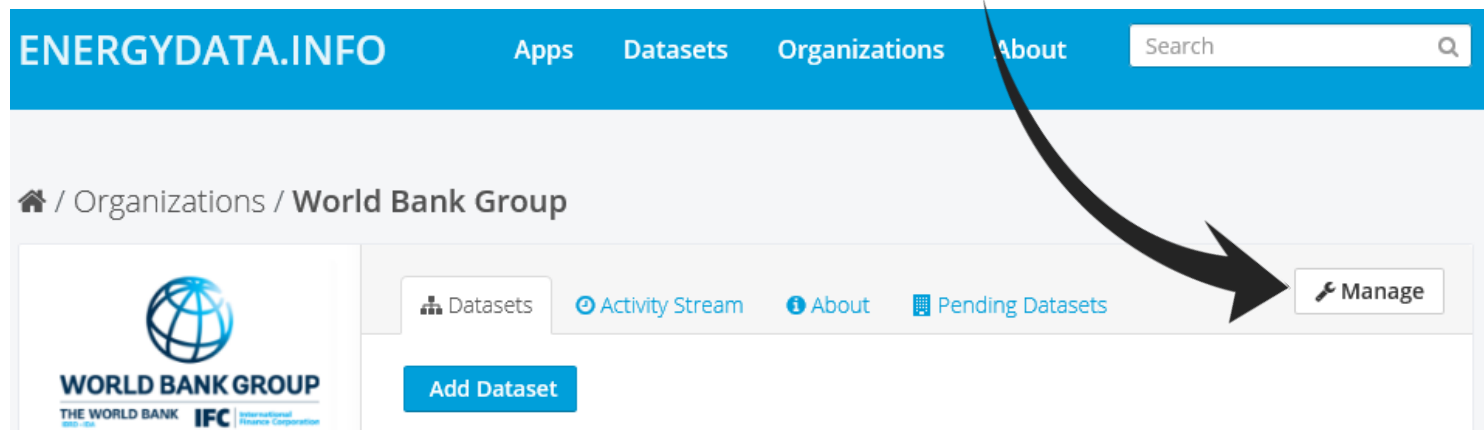
- Eligible organizations can be added to energydata.info by submitting a request

2 ADDING MEMBERS TO AN ORGANIZATION

- Managers of an organization can directly add members to their organization

From the organization page, click Manage and then


 Add Member



Organizations, members and access

PERMISSIONS AND ACCESS

- 3 Members of an organization can upload datasets within their organization
There are three different types of members:
- Admin (complete access, add and edit datasets and members)
 - Editor (add and edit datasets)
 - Member (view private datasets, but not add or edit)



WORLD BANK GROUP
THE WORLD BANK IFC International Finance Corporation

World Bank Group
The World Bank Group has set two goals for the world to achieve by 2030: (i) End extreme poverty by decreasing the percentage of people living on less than \$1.90 a day to no... [read more](#)

What are roles?

Admin: Can add/edit and delete datasets, as well as manage organization members.

Edit Datasets Members View

Add Member

← Back to all members

Existing User :
If you wish to add an existing user, search for their username below.

OR

New User :
If you wish to invite a new user, enter their email address.

Role:

Member

Admin

Editor

Member

Add Member

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Uploading new datasets

- Users must be either **editors or administrators** to upload new datasets
- In order to add a new dataset, follow these steps:

1 Click on 'Datasets'

The screenshot shows the ENERGYDATA.INFO website interface. The top navigation bar is blue with the site name and links for Apps, Datasets, Organizations, and About. A search bar is on the right. Below the navigation bar, the page title is 'Datasets'. On the left, there is a sidebar with a 'Countries' section listing various countries and their dataset counts. The main content area features a blue 'Add Dataset' button, a search bar for datasets, and a section titled '588 datasets found'. Below this, a specific dataset is highlighted: 'Afghanistan - Population density', with a view count of 606, a list of countries (Afghanistan), a published year of 2015, and 11 likes. A description of the dataset is provided at the bottom.

ENERGYDATA.INFO Apps **Datasets** Organizations About Search

Home / Datasets

Countries

- Uganda (34)
- Nigeria (28)
- Tanzania, United Re... (25)
- Zambia (21)
- Madagascar (20)
- Ghana (19)
- Benin (15)
- Pakistan (14)
- Afghanistan (13)

Add Dataset

Search datasets...

588 datasets found Order by: Name Ascending

Afghanistan - Population density

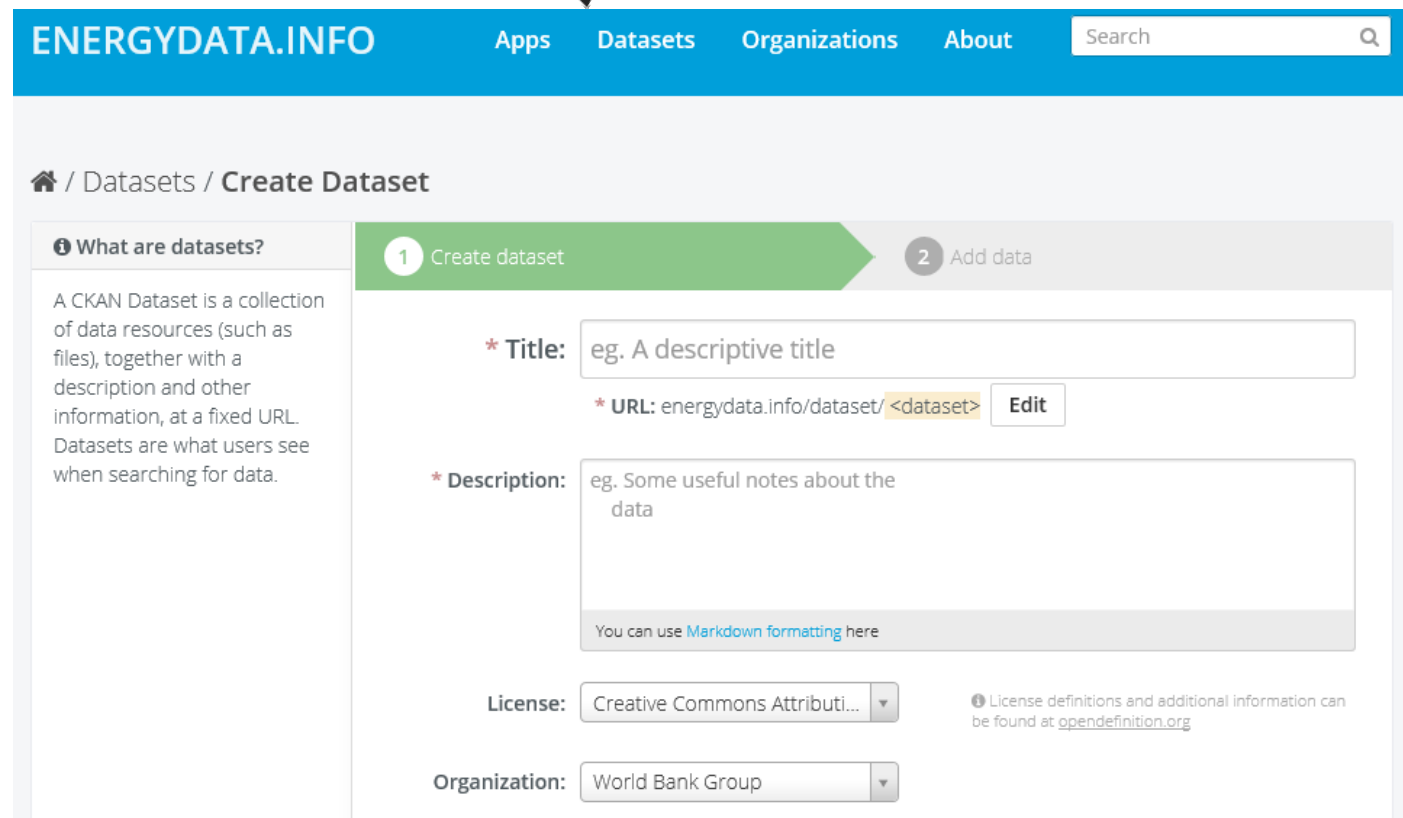
606 Countries: Afghanistan Published Year: 2015 11

Population density per pixel at 100 metre resolution. WorldPop provides estimates of numbers of people residing in each 100x100m grid cell for every low and middle income...

2 Click on 'Add Dataset'

Uploading new datasets

- 3 Enter the title, description and other required information for the dataset



The screenshot shows the 'ENERGYDATA.INFO' website with a navigation bar containing 'Apps', 'Datasets', 'Organizations', and 'About'. A search bar is on the right. Below the navigation bar, the breadcrumb trail is 'Home / Datasets / Create Dataset'. The main content area has a green progress bar with two steps: '1 Create dataset' (active) and '2 Add data'. On the left, a sidebar titled 'What are datasets?' explains that a CKAN Dataset is a collection of data resources with a description and a fixed URL. The main form fields are: 'Title' (required, with example 'eg. A descriptive title'), 'URL' (required, with example 'energydata.info/dataset/<dataset>' and an 'Edit' button), 'Description' (required, with example 'eg. Some useful notes about the data' and a note about Markdown formatting), 'License' (dropdown menu showing 'Creative Commons Attributi...'), and 'Organization' (dropdown menu showing 'World Bank Group'). A footer note states: 'License definitions and additional information can be found at opendefinition.org'.

ENERGYDATA.INFO Apps Datasets Organizations About Search

Home / Datasets / Create Dataset

1 What are datasets?

A CKAN Dataset is a collection of data resources (such as files), together with a description and other information, at a fixed URL. Datasets are what users see when searching for data.

1 Create dataset **2** Add data

* **Title:** eg. A descriptive title

* **URL:** energydata.info/dataset/ <dataset> Edit

* **Description:** eg. Some useful notes about the data

You can use [Markdown formatting](#) here

License: Creative Commons Attributi...

Organization: World Bank Group

License definitions and additional information can be found at opendefinition.org

Uploading new datasets

- 4 Upload files one by one, giving each a unique name and description, as well as specifying the format

ENERGYDATA.INFO Apps Datasets Organizations About Search

Home / Datasets / Create Dataset

What's a resource?
A resource can be any file or link to a file containing useful data.

1 Create dataset **2 Add data**

Data:

Name:

Description:

You can use [Markdown formatting](#) here

Format:

This will be guessed automatically. Leave blank if you wish

- 5 Click finish once the process is complete

Preferred formats for **geospatial** data

- Geospatial data is normally used by GIS (**Geographical Information Systems**) software, and is used for data where the geographical aspect is emphasized
- There are two types of geospatial data:
- **Vector data** represents points (e.g. power stations), lines (e.g. power lines) and areas (e.g. water bodies) with geographical coordinates and attributes. It is normally used to represent **categorical data**.
- **Raster data** represents continuous, both **quantitative** (altitude map) and **qualitative** (land use types) in a manner similar to a photograph, using individual pixels to represent data points.
- Vector data should be uploaded as **GeoJSON** (or Shapefile if necessary)
- Raster data should be uploaded as a **GeoTIFF**



Preferred formats for **time-series** and **other** data

- Time series data is data with a **time-varying element**, representing changes over a time period, such as data from a wind measuring station.
- This data frequently also contains geospatial element (the location of a measuring station), but **may not have precise coordinates**.
- This data emphasizes the time-variation and metadata (location, name, type) associated with it.
- Other data could be any **general energy-related data**, such as electricity prices. This might not have any geospatial element, except for an associated country/region.
- This data is typically stored as a **CSV** or **Excel** file, which can easily be explored with standard software.

Naming, metadata and tags

- Datasets should be named according to the following schema:
Region/Country - Name

Example: Kenya – Electricity Transmission Network

- **Metadata** should be added as accurately and completely as possible.
- This ensures that data can be traced and the relevant people can be contacted.
- Metadata and **tags** also help to search the database quickly.

License: License definitions and additional information can be found at opendefinition.org

Organization:

State:

* Topic:

Country: * Select at least one country or region

Region: * Select at least one country or region

Status:

Source:

* Author:

Author Email:

* Published year: * Publish date of source data

Managing, deleting and API links

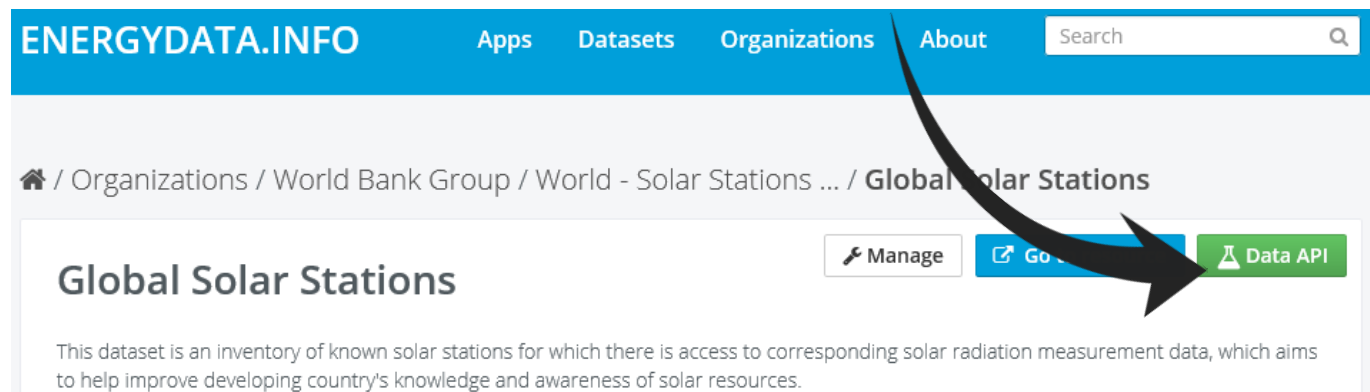
MANAGING A DATASET

With the required permission you can:

- **Modify the information and metadata for a dataset**
- **Add or update the data resources tied to it**
- **Re-order the resources (affecting which will be previewed on the main page)**
- **Delete a dataset**

API ACCESS

- **Certain data types (CSV among others) allow data to be created, updated and queried through API access, allowing automated interaction with datasets.**



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Reporting issues and requesting changes on GitHub

- The website source code is openly available on GitHub at: github.com/energy-data/energydata.info
- To report issues and participate in the development of ENERGYDATA.INFO, please contact our team at energydata@worldbankgroup.org



Thank you.

In order to contact the [ENERGYDATA.INFO](#) team directly,
please use the following email address:

energydata@worldbankgroup.org