The OpenEnergy Platform (OEP)

A web-platform to improve transparency and reproducibility of energy system analyses

Objectives and Technical Properties

Main Objectives
The developed modules of the OEP help to increase transparency, reproducibility and quality in energy system research. Each module focuses on a specific aspect of the process from raw data to result data. The OEP aims at giving support to modelers to provide a proper documentation of the code and assumptions used for a publication. It also provides the possibility to directly connect a model to the database to import and export data using an API. The implemented modules and tools as well as new planned features are discussed, developed and revised collaboratively at the openmod workshops, at project meetings and different online discussion platforms to achieve common solutions to improve transparency.

Technical Properties
The platform software is written in Python and Django and the source code is published under the open software license AGPL-3.0.

Related Projects

Modules and functions of the OEP

You can describe, find, and compare energy system models, frameworks as well as concrete studies and scenarios with the various Fact Sheets. You can link your code to the model description and give specific information about methods and assumptions.

You can describe, find, and compare energy system models, frameworks as well as concrete studies and scenarios with the various Fact Sheets. You can link your code to the model description and give specific information about methods and assumptions. The Factsheets are a standardized collection and presentation of information about modeling frameworks, models and scenarios used in climate and energy system modeling. It is presented in a format which emphasizes key points concisely. The use of interactive fields and pre-defined responses is designed to filter for existing entries.

You can publish, receive and document data of your modeling process through to the OpenEnergy Database (oedb). This includes raw data, processed data and results. For all data in the database a minimum of metadata is required in order to improve the transparency.

You can reference your work to other researchers using the Glossary. Access to data and code doesn’t mean that the results and conclusions of a study are understandable. Within discussions it is a crucial point to ‘use the same language’. In the Glossary the expressions used in the Fact Sheets and in the data tables can be explained and discussed.

You can refer to literature (e.g. sources, papers and studies) using the literature function.

Access & Participate

You can assign predefined or self-created tags to each dataset. They can be used as filters and can be included in searches and queries. In addition it increases visibility of similarities and differences. The categories and colours of the tags can be discussed and adapted.

Visit and use the OEP
https://oedb.rle-institut.de/

Meet the developers
You can meet us at the openmod workshops.
https://wiki.openmod-initiative.org/wiki/Events

Get involved and contribute
You are invited to join our discussion if you have suggestions or you want to get involved in the development.
https://github.com/openego/oeplatform

Acknowledgment

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