

Open Energy Modelling Initiative
3rd Online Lightning Talk Mini-workshop

Open Energy Ontology

An Ontology for the Domain of
Energy System Modelling

2020-05-13

Christian Hofmann



© Reiner Lemoine Institut

What is an Ontology?

- An ontology is a way of showing the properties of a subject area and how they are related, by defining a set of concepts and categories that represent the subject.
- An ontology encompasses a formal naming and definition of the categories, properties and relations between the concepts, data and entities.
- The OEO aims to be the ontology in the domain of energy system modelling

What is an Ontology good for

- Standardising Terminology in a Field
- Data Annotation and Integration
- Templates for Data Capture
- Visualisation
- Text and Data mining
- Semantic Similarity Analysis
- Data analysis

OEO Characteristics

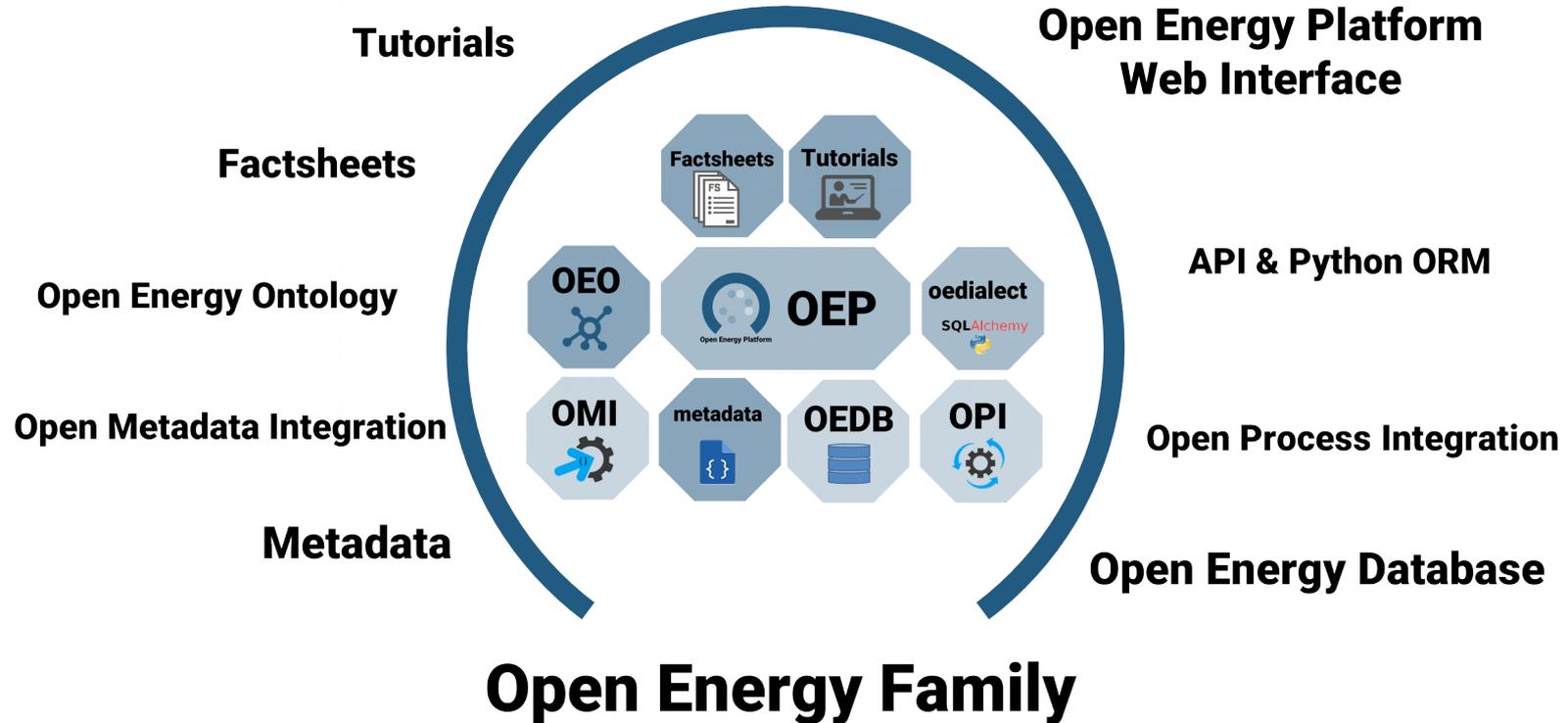
- Domain Ontology for and by Energy Research Modellers
- Manchester OWL Syntax
- Uses BFO¹ as Top Level Ontology
- Developers use protégé² as main development tool
- Openly Licensed (CC0) for Open Science
- Public Development on GitHub³
- Early stages, first release scheduled 1st July

1 <https://basic-formal-ontology.org/>

2 <https://protege.stanford.edu/>

3 <https://github.com/OpenEnergyPlatform/ontology>

Open Energy Family



Who's involved

- **Institutions:**
 - OvGU, Öko-Institut, Fraunhofer, RLI, FZJ, DLR, Leipzig University
- **Projects:**
 - SzenarienDB, LOD-GEOSS
- **Steering Committee⁴**
- **You** (hopefully soon)

⁴ <https://openenergy-platform.org/ontology/ontology/oeo-steering-committee>

„Metadata is a lovenote to the future“



License

Except where otherwise noted, this work and its content (texts and illustrations) are licensed under the [Attribution 4.0 International \(CC BY 4.0\)](https://creativecommons.org/licenses/by/4.0/)

Please quote as:

“Open Energy Ontology – Lightning Talk”

© [Reiner Lemoine Institut](https://reiner-lemoine-institut.de/) | [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/)



Christian Hofmann

Tel: +49 (0)30 1208 434 76

E-Mail: christian.hofmann@rl-institut.de

Web: <https://reiner-lemoine-institut.de>