OEO Developer Meeting #9

Datum: 2020-09-21 14:00-18:00
   https://dudle.inf.tu-dresden.de/oeo-dev_9/
   https://etherpad.wikimedia.org/p/oeo-dev-9
   https://github.com/OpenEnergyPlatform/ontology/issues/560

TeilnehmerInnen: Christian, Ludwig, Lukas, Simon, Anna, Vera, Carsten

Festlegen:

- ModeratorIn: Ludwig
- Protokoll-Verantwortung: Carsten + Christian
- Übertrag in GitHub-Issues: Ludwig

Vorbereitung:

Link zum Spreadsheet für die economic terms aus der FIBO
alter link: https://next.rl-institut.de/apps/onlyoffice/s/DTmF6ncxgtLFAfx
neuer link: https://next.rl-institut.de/s/DTmF6ncxgtLFAfx

Themen-Sammlung:

- Was ist passiert?
    - Übersetzung FIBO und OEO. Link auf Tabelle…
- Wo finde ich die Protkolle? Wo werden sie abgelegt.
    - https://github.com/OpenEnergyPlatform/ontology/wiki
        - https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings
    - Workflow:
        - Export aus Pad als PDF
        - Hochladen ins Issue
        - Verlinkung on Wiki

* Offene Issues für nächstes Release:
   https://github.com/OpenEnergyPlatform/ontology/issues?q=is%3Aopen+is%3Aissue+milestone%3Aoeo-release-1.2.0

Fortsetzung der Diskussion zur FIBO:

https://next.rl-institut.de/s/DTmF6ncxgtLFAfx

- Policy/Measures/etc: weitere Diskussion, wenn Jannah und Hannah wieder da sind.

Weitere Issues für das kommende Release:

https://github.com/OpenEnergyPlatform/ontology/pull/538

- Reviewer bestimmt.

https://github.com/OpenEnergyPlatform/ontology/issues/76

- Geographische Ontologie GAZ, Link zu Brandenburg: https://www.ebi.ac.uk/ols/ontologies/gaz/terms?iri=http%3A%2F%2Fpurl.obolibrary.org%2Fobo%2FGAZ_00003502

Issue wird mit einem abschließenden Satz vorläufig abgeschlossen.

https://github.com/OpenEnergyPlatform/ontology/issues/475

- Klärung von unterschiedlichen Regionen:
-    - Was wird modelliert/analysiert
-    - Was ist die Umgebung, welche mit betrachtet werden (muss).
- https://github.com/OpenEnergyPlatform/ontology/issues/475#issuecomment-696108477
- Defintion subregion
- A **subregion** is a spatial region that is a part of spatial region.
- - instead: dont have a class "subregion", use "part of some spatial region"
- - if needed: "is subregion of" relation as subrelation of part of
- A blue region is a spatial region that is a part of a red region.
- A **study subregion** is a subregion of a study region = subregion of a study region.
- condition: if blue = 1 the blue = red / sum(blue) = red
- potential alternative terms: ~~Subregion / Sub-region, study subregion / subregion of study region~~
- als annotation hinzufügen, wie man in dem fall vorgehen soll(?)
- A **considered region** region is a spatial region that is used in an analysis.
- condition: green = (red + black)
- potential alternative terms: considered region ~~/ surrounding region / represented region~~
- An **interacting region** is a spatial region that interacts with a red region. It is part of a considered region, but not a study region.
- potential alternative terms: external region~~, affecting region~~
- A **study region** is a spatial region that is under investigation and consists entirely of one or more subregions.
- condition: red = sum(blue)
- potential alternative terms: region of interest / region under investigation
- "area" sollte als Synonym für "spatial region" genutzt werden.

Weiteres Thema EMP-E Paper / Videoabstract

- 1 Cover + 3 PPT Folien
- - Erklärung für Einsteiger / Ontologie
- - Use Cases:

- - standardisation of terminology: model comparison + model coupling
  - Warum kein Glossar?
- - data annotation
  - [- Interpretation of data
  - - Model coupling]
- - Visualisierung eines Zweiges (Materialien /Treibstoffe)
- http://www.visualdataweb.de/webvowl/
  #opts=doc=2;filter_objectProperties=true;#iri=https://
  openenergy-platform.org/ontology/oeo/
- http://vowl.visualdataweb.org/webvowl/old/#iri=https://
  openenergy-platform.org/ontology/oeo/
- EMP-E: 6.-8. Oktober 2020
- späteste Deadline Video: 5. Oktober
- Ludwig macht ersten Aufschlag

Nächsten Termin doodeln

- -> Ludwig

Als Referenz das EMP-E Abstract für die OEO

- --- eingereicht
- **Paper Abstract:**
- EMP-E 2020 – Result Poster-Video
- **Introduction and evaluation of the Open Energy Ontology (OEO)**

- Lukas Emele1, Hannah Förster1, Johannes Frey2, Ulrich Frey3, Martin Glauer4,
- Janna Hastings4, Christian Hofmann5, Carsten Hoyer-Klick3, * Ludwig Hülk5,
- Anna Kleinau4, Patrick Kuckertz6, Till Mossakowski4, Fabian Neuhaus4,
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- **KEYWORDS**
- Ontology; Energy System Analysis; Open Data; Open Science; Database;

- ABSTRACT
- We introduce and evaluate the Open Energy Ontology (OEO), an ontology for the field of energy research. Energy system analysis uses computational models to create scenarios reflecting possible future developments in distributed networks of energy supply and consumption. To date, this domain is still fragmented, and it is difficult to integrate data and results across studies.
- The goal of the OEO is to build a common and shared conceptualization that will be used in the energy system analysis community for multiple purposes, including annotation of energy models and scenarios, as well as organizing large amounts of data resulting from various research projects. Adding annotations will make this data semantically searchable, exchangeable, re-usable and interoperable. In addition, transparency, comparability and comprehensibility of data, models and assumptions is enhanced.
- This paper presents the structure of the OEO ontology and evaluates how its content can be used for the annotation agreement among experts. We also describe how the ontology will be used for Linked Open Data and present other benefits and use-cases of this community-wide ontology.
- Zuordung:
- Topics
- Please select topics relevant to your submission from the following list. Topics are typically used for assigning submissions to reviewers and for conference analytics.
- *Impact of COVID-19 on the energy system: what happened during the crisis? What consequences on future energy modelling?
- *Climate Neutral Pathways, scenarios and storylines: Useful lessons learned and strategies for the European Green Deal
- *Climate neutrality: energy modelling, weather and climate
- *Circularity, use of raw material
- *Socio and economic impacts of the transition
- *Consumer and Citizen Engagement
- *Sector integration: Decarbonisation through multi-energy carrier integration
- *Smart cities, Smart grids and digitalization: Modelling insights and lessons learned
- X*Infrastructure for integrating models across spatial and sectoral scales to facilitate openness and transparency
- *Energy modelling tools contributions to National Energy/Climate plans
- *Transformation of the Energy system: centralization vs further decentralization
- *Uncertainty and modeling: lessons learned and gaps