

OEO Developer Meeting #42

Pads:

- Notes from last meeting: <https://etherpad.wikimedia.org/p/oeo-dev-41>
- Pad to this meeting: <https://etherpad.wikimedia.org/p/oeo-dev-42>
- Pad for next meeting: <https://etherpad.wikimedia.org/p/oeo-dev-43>

Date: 25.08.2022

Participants:

- Moderator: Christoph @25.08.22
- Main reporter: Martin (OvGU)
- Next meeting organiser:
- Developers with affiliation:
 - Christoph (RLI)
 - Alexandra (TUM)
 - Markus (OVGU)
 - Martin (OvGU)
 - Alexander(OvGU)
 - Beneharo (TUM)
 - Ludwig M (TUM)
 - Ludwih H (RLI)

Preparation:

- Read last protocol: <https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings>
- Check issues for next release: <https://github.com/OpenEnergyPlatform/ontology/milestones>
- Load software (GitHub, git, Protégé)

Agenda:

Announcements

- Events - Conferences - etc.
- Personal changes @ MR
 - Markus will leave OEO team - remaining tasks:
 - 1. restructuring of import modules (<https://github.com/OpenEnergyPlatform/ontology/pull/1268>)
 - already implemented for RO modules
 - Additional PR review needed
 - Best before the end of the week
 - Same has been implemented to the IAO module -> reuse
 - 2. PR template
 - A new template has been drafted [LINK]
 - Too many checkboxes were a problem
 - Compromise: Use checkboxes only where necessary
 - AS will take over the term-list extraction during the release process (<https://github.com/OpenEnergyPlatform/ontology/issues/1020>)
 - Many thanks to MR :)

Organisational

- Template - Example Topic [Name]
 - <https://github.com/OpenEnergyPlatform/ontology/wiki/oeo-dev-meeting-etherpad-template>
 - Note and comment

Release

[RELEASE] on 01.09.22

- Check - if there are not enough issues postpone the release
- <https://github.com/OpenEnergyPlatform/ontology/blob/dev/CHANGELOG.md#changelog>
 - 9 PR's implemented | 3 Added | 6 Changed
 - 38 open issues for release 1.12.0
 - fewer than usual due to summer break
 - Postpone? Postpone the postponement decision until end of meeting

OEO Classes

Adding more heat terms @ASei

- <https://github.com/OpenEnergyPlatform/ontology/issues/1254>
- Problem: heat plant -> heat transfer unit -> heat exchanger -> participates in `heat transfer`
 - definition "Heat transfer is an energy transfer with thermal energy as the only input and thermal energy as the only output."
 - There are other inputs of "heat transfer"
 - e.g. Biomass for biomass energy
- We want heat plant to also convert other fuels (e.g. biomass, coal) - heater was good suggestion!
- heater might be too generic -> maybe subclass: boiler or heat generation unit
- Heat plant:
 - A heat plant is an energy transformation unit consisting of **heat transfer units or a heater** and a grid component that feeds thermal energy into a heating grid.
 - Are ovens or electrical heaters "heat plants"? Answer: No: they are just heaters
 - distinguishing point of heat plant and heater: feed into grid vs not
 - **heat transfer units or a heater** - Introduces disjunctions, which is not in EL, but in DL -> more expressive (read: slower) logic, but not a problem
 - make more subclasses for specific heat plants
- Heater
 - definition "A heater is an energy converting component that converts other forms of energy into useful heat."
 - new subclass: boiler, combustion-based heater, electrical heater (?)
- Energy transformation can also just mean "Energy transport" over a spacial region
- Co-Generation
 - There is an ambiguity with "combined heat and power plant"
 - Superclass for `combined heat and power plant`
 - Rename to "Cogeneration plant"?
 - Sounds too generic. Are there kinds of energy that could be "cogenerated" other than heat and power?

- Instead: New class "Cogeneration plant"
 - ... is a energy plant that has more than one kind of energy generating units.
 - If there are other kinds of energy that should be considered, this would be a viable solution
 - Otherwise: "*combined power plant and heat plant*" = "Cogeneration plant"
- ○ *Class combined power plant and heat plant:*
 - *Subclass 'heat plant' and 'power plant'*
- Waste heat source: <https://github.com/OpenEnergyPlatform/ontology/issues/1265>
 - possible waste heat sources -
 - Is it necessary to introduce all specific waste heat sources, that are mentioned in definition?
 - Not strictly required right now. The origins of waste are very heterogeneous (e.g. "data centers")
 - Applications that want to reference

[5 Minute break]

Geothermal @ASei

- Hydro vs Petrothermal - introduce both?
- Deep geothermal energy vs Near-surface geothermal energy - What is depth to distinguish both?
 - avoid using a number
 - analogues with sector definitions
 - deep thermal energy & near surface energy - distinguish with "depths distinction mechanism"
 - Sector division
 - is a specific way to subdivide a system
 - new subclass of sector division: 'crust depth division'
 - is a specific way to subdivide the crust of the earth

(~15min) older issues @ASta

- Issue #25 <https://github.com/OpenEnergyPlatform/ontology/issues/25>
 - form to proceed disappeared - awaiting feedback from maintainers
 - For Ontology:technical issues: not all modules could be read
 - For OLS: It seems the process changed. The old registration form is gone, new process via Github (!?)
 - @MG will add new info to issue, then AS can investigate
- Issue #179 <https://github.com/OpenEnergyPlatform/ontology/issues/179>
 - Reuse terms from EnArgus
 - EnArgus is not publicly available (and will likely never be)
 - Copyright issues for some reason
 - <https://www.enargus.de/wiki/>
 - MG will contact TM on whether there is already an extraction tool for EnArgus

Postpone OEO Release?

- Heat-related concepts will not be implemented in time
- if IAO is implemented -> will be big code change
 - Will it be a major change? Not really, a new module is added
- iff IAO changes are successfully implemented -> Do release
- Otherwise, slightly postpone until IAO changes are done

Appoint meeting organisor

- CM finds organisor

- Template - Ontology Workspace (use for joint development) [NAME]
 - Add issue link
 - Collect related terms
 - Create an aristotelian definition
 - Find axioms

OEKG

Other Topics

Collection of Tasks:

- Add something @A