OEO Developer Meeting #17

Pads:

- Pad to this meeting: https://etherpad.wikimedia.org/p/oeo-dev-17
- Pad for next meeting: https://etherpad.wikimedia.org/p/oeo-dev-18
- Notes from last meeting: https://etherpad.wikimedia.org/p/oeo-dev-16

Date: 12.05.2021, 14:30 p.m.!!! -- 17:00 Uhr

- **Participants**: Lukas, Mirjam, Christian, Vera, Carsten, Martin, Hannah
- moderator: Mirjam
- main reporter:
- protocol: Christian
- next meeting organisier: Mirjam, Christian, Hannah

Preparation:

- Read last protocol: https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings
    - https://etherpad.wikimedia.org/p/oeo-dev-15
- Check issues for next release: https://github.com/OpenEnergyPlatform/ontology/milestones
- Load software (GitHub, git, Protégé, DFN)

Agenda

- Today: 45min work, 15min break
    - When to start next dev meetings? 14:00-17:00? 14:30-17:30?
- **hydro issues I + II**
    - hydro power plants @LE (#78 and #43)
    - https://github.com/OpenEnergyPlatform/ontology/issues/681
    - water turbine: potential energy has more impact than kinetic energy -> maybe put 'potential' before 'kinetic' in definition
    - if we keep `dammed water` and `pumped water`, they should be subclasses of `liquid water`
    - idea: distiguish between hydro power plants (pump vs run of river), remove distinction between hydro energy transformation ---> no objections!
        - run of river can't be switched off, can't pump water, but can dam water in a small amount
    - negation: to define the non-presence of a Speicher as a distinction is possible but a *has_not some Speicher* is not as straight forward to define as *has some ###*
    - hydro power plants:

        - *A hydro power generating unit is a power generating unit that uses hydro energy.* (*analogous to wind*)
            - relation: has_part some water turbine
        - *A hydro power plant is a power plant having an aggregate of hydro power generating units as ~~its power generating units~~ parts.*
        - participates in some 'hydroelectric energy transformation'

- Note: adjust other defs of power plants analoguos to hydro!
- Subclasses of hydro power plant
  - **hydro storage power plant**: *is a hydro power plant that uses the available hydro energy of a stationary water storage*. (alternative term: storage power plant)
    - (turbine + dam + reservoir)
  - **Run of river power plant**: *is a hydro power plant that uses the momentarily available hydro energy of a river*
    - (turbine + dam + river)
    - have small or no reservoir capacity, so that only the water coming from upstream is available for generation at that moment, and any oversupply must pass unused.
      - Subclass:
      - has_part only NotAHydroStorage
      - Class NotAHydroStorage:
      - Disjoint: HydroStorage
      - Will ***not*** be implemented this way!
- leave sharp distiction between run of river and hydro storage open for now
  - --> add editorial note: distinction is important for modelling, but in reality not so easy

  - **Pumped hydro storage power plant:** *is a hydro power plant that uses the available hydro energy of a stationary water storage AND....*
    - pumped hydro storage power plant is a hydro storage power plant which has some pumps...
      - ... with natural intake
      - ... without natural intake
      - (turbine + dam + reservoir + pump)

Info: The river runoff is the amount of water entering local rivers and the discharge is the accumulation of all upstream runoff. https://www.atlas.impact2c.eu/en/water/river-runoff/?parent_id=332

- River a la ENVO: "A stream which, through permanent or seasonal flow processes, moves from elevated land towards lower elevations through a definite channel and empties either into a sea, lake, or another river or ends on land as bed seepage and evapotranspiration exceed water supply."

  - => Lukas will implement

- Break

- **Milestone 1.6**
  - Last release v1.5 on 03.05. by Simon
  - https://github.com/OpenEnergyPlatform/ontology/milestone/4
- **Master --> Main renaming**
  - who is responible, JH and MG
  - what do we have to do, documentation or do changes together?
  - locally everybody has to change remote

- release-unabhängig
- https://github.com/OpenEnergyPlatform/ontology/blob/c4a0ef3cef1a75b571ac256ff224c2d37b9c675f/src/scripts/ro/ro-extract-nohierarchy.txt#L3 what happens with fixed URL?
    - See: https://docs.github.com/en/github/administering-a-repository/renaming-a-branch
    - *"Although file URLs are automatically redirected, raw file URLs are not redirected. Also, GitHub does not perform any redirects if users perform a git pull for the previous branch name."*
- check if any permalinks are used. if not, implement next meeting!
- No Permalinks in the OEO Paper. \o/
- **Have meetings with special focus**
    - **relations**
        - make poll
    - **structuring oeo-model**
        - https://github.com/OpenEnergyPlatform/ontology/issues/179 (crawling from EnArgus/DBpedia)
        - https://github.com/OpenEnergyPlatform/ontology/issues/254 (CollaborativeProgramming)
        - https://github.com/OpenEnergyPlatform/ontology/issues/187 (mathematical objective of a model)
        - https://github.com/OpenEnergyPlatform/ontology/issues/183 (handles_uncertainty)
            - state of EnArgus? --> CH sends an email to openmod/SC
                - at least for a mapping
            - make poll
    - **economic issues**
        - https://github.com/OpenEnergyPlatform/ontology/issues/256
        - https://github.com/OpenEnergyPlatform/ontology/issues/376
        - https://github.com/OpenEnergyPlatform/ontology/issues/476 (market exchange & co) @MS prepares the issue overview, include economy experts @HF, @UF, also some energy experts
            - poll: https://terminplaner.fraunhofer.de/foodle.php?id=82wgtyk1hueywz9z
        - -> summary of missing terms: https://etherpad.wikimedia.org/p/oeo-dev-markets, can be used as start of separate meeting
    - LOD-specific meeting

- **General developer meetings**
    - new poll
    - 2-3 stunden
    - gerade/ungrade wochen
    - vormittags/nachmittag
    - @MS
    - nächstes Mal 9.Juni 14-17 CH schickt termin

--- Next meeting ---

- Methane structure (@LE)

- Issue: Funding subclasses need "funding" suffix and funding a reclassification (@MS) #246
  - https://github.com/OpenEnergyPlatform/ontology/issues/246
  - current state:
    - funding class and subclasses have been (temporarily) deleted in PR #357
    - existing relation "has_funding_source":
      - Def: A relation that holds between an entity and its source of funding
      - range: agent
    - idea: distiguish between public and private funding
      - as types of organisations / agents
        - private organization: *A private organization is an organization that is not operated by a profit or a public body. It includes all businesses that are for-profit that are not government owned or operated..*
        - public organization: *A public organization is a state-run organization. It is government-controlled and is paid for by public taxation.*
        - BUT: regarding funding: where does the money come from?
      - as general terms: regarding e.g. accessibility, institution (ownership), financing... hard to find a generic definition?

Further topics
[Jannas attendence recommended]

- Problematic use of the annotation property alternative term https://github.com/OpenEnergyPlatform/ontology/issues/619 @JH --> next meeting #18?
- reminder: https://github.com/OpenEnergyPlatform/ontology/issues/617
- ENVO https://github.com/OpenEnergyPlatform/ontology/issues/636
- economic issues --> seperate meeting
  - https://github.com/OpenEnergyPlatform/ontology/issues/256
  - https://github.com/OpenEnergyPlatform/ontology/issues/376 (market exchange & co) @MS prepares the issue overview, include economy experts @HF, @UF