OEO Developer Meeting #91

Date: 28.11.24
Participants:
- Moderator: MS

- Main reporter: SW, LH

- Next meeting organiser: EA

- Developers with affiliation:

- MS (OVGU)

- AW (OFFIS)

- LH (RLI)

- SW (FAU)

- US (KIT)

- Poon (FAU)

- EA (DLR)

- Next meetings and topics:

- 2024-11-28: #91 energy policies ontology module

- 2024-12-13 #92 (MS not available) EA will prepare

- 2025-01-17:

- 2025-01-31:

- Meeting n person in 2025: https://dud-poll.inf.tu-dresden.de/0gPAWCtDjQ/

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:
Announcement
- meeting with ENVO guys on ontology mappings

Organisational
- meeting in presence

- https://dud-poll.inf.tu-dresden.de/0gPAWCtDjQ/

- CCO, MENO

- mappings??

- units

Release
- Release 2.6.0 scheduled for 2024-12-03

- https://github.com/OpenEnergyPlatform/ontology/discussions/categories/releases

- Release team: MS, MB, LH, NZ, CH, LG

OEO Classes
- **Main topic: energy policies ontology**

- presentation of the current state of the energy policy ontology [SW]

- about public energy policies (PEPO)

- hierarchical structure of policy targets and policy intstrument

- functions of policy instruments already in OEO

- agents, institutions? not yet

- instances for e.g. different countries

- who makes the policy?

- to whom it is adresses? "targeted actor"

- use cases:

- unified vocabulary

- planned project and basic ideas of the OEO Foundry [MS]

- Flex Funds Projekt NFDI4Energy (new Measure 4.6. in TA 4)

- Common standards for energy-related ontologies accepted as flex fund

- Included into TA4 NFDI4Energy (which already has metadata development and standards development), policy ontology as a test case for standard development

- First task: define common standards using OBO Foundry as a template

- Second task: differentiate scopes of ontology (energy system modeling very broad; energy policies is maybe more precise than energy system modeling). How to define good scopes for ontology

- Third task: get community especially developers involved

- OBO principles include openness, using a common format, using identifiers, having different versions, a clearly-defined scope, has human-readable definitions, relations

between the entities that are meaningful and reusable (own relations ontology), user dialogue, documentation, collab between different parties, has an "authority" (contact person), naming conventions, maintenance

- discuss processes – how would it work to integrate the energy policy ontology into OEO [all]
- Discussion on how to develop the ontology
- Create a separate repository and copy existing elements from oeo and templates
- Establish a developer community with ontology experts, domain experts, and main developers.
- How to deal with existing classes and definitions in oeo
- Import existing classes
- Move (Remove) to the best fit
- Create a soft link

- Discussion on next meetings
- Apply for a joint workshop on the Ontologies at the NFDI4Energy Conference in March

not discussed:

- **related discussion: legislation vs policy [MS, CH]**
- https://github.com/OpenEnergyPlatform/ontology/issues/1962
- what is the difference? is legislation a subclass or a sibling class of policy, or other?
- (Silvia: in our ontology, "public policy" is everything the government does; legislation is one way that policy instruments are enacted, but not every instrument is linked to legislation. Policy can come from many sources: roadmaps, court cases, govt negotiations and more)
- **buffer zone and exclusion zone [MS, CH]**
- https://github.com/OpenEnergyPlatform/ontology/issues/1962

- **Some topics from meta issue on tasks [MB, MS]**
- https://github.com/OpenEnergyPlatform/ontology/issues/1968
- Proposals:

- *levelized cost of energy* as an alternative label for *levelized cost of electricity* (which is already in the oeo) since both are well used

- *capacity factor* and *CF* as alternative labels for *net capacity factor*

- wind power density *(WPD) is a quantity vale of the power wind has in a specific area. It is calculated as 0.5 * air density * (wind speed to the power of 3)*

- multi-criteria decision analysis *(MCDA) is a methodology to help with decision making by defining goals, priorities and weights.*

- wake loss *is a loss in power output of turbines that occur due to speed reduction of wind that already passed another turbine.*

- wind characteristics is already a separate issue (https://github.com/OpenEnergyPlatform/ontology/issues/1968)

- Higher technological granularity on PV/Wind/Storage

- https://github.com/OpenEnergyPlatform/ontology/issues/1979

OEKG
Other Topics

Collection of Tasks:
- Add something @A