

FAIR Data for Energy Systems Research

Carsten Hoyer-Klick¹, Stephan Ferenz^{2,5}, Christian Hofmann³, Wolfgang Süß⁴, Oliver Werth⁵

¹ German Aerospace Center, Institute of Networked Energy Systems, ² Carl von Ossietzky Universität Oldenburg – Department of Computer Science, ³ Reiner Lemoine Institute, ⁴KIT, ⁵OFFIS – Institute for Information Technology, Energy Division

Relevance

Energy research
• is fundamental for the energy transition supported by the European Green Deal,
• depends heavily on simulation, and
• demands a large amount of data and software
→ FAIR data save time and effort in data collection, enables interoperable data reuse, and enhance trustworthiness in energy research results

Challenges

- Highly interdisciplinary, involving knowledge and data from various domains, e.g., engineering, geography, social sciences, and economy
- Highly diverse funding schemes including mission-oriented funding
- Cooperation with industry and society is highly required
- Highly regulated energy systems with high impact of changing political decisions
- Research of critical infrastructure

What has been achieved so far?



The OEP is an actively used platform that energy researchers use to publish and annotate their data and findings.



Since 2023 we interview energy researchers on their needs for infrastructure to enable FAIR data.

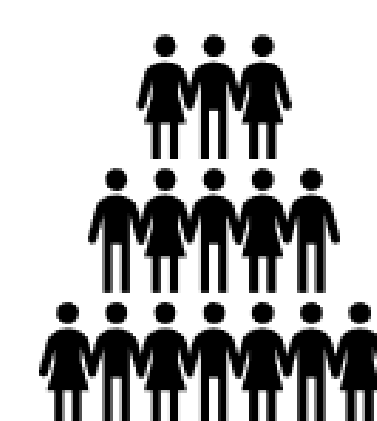
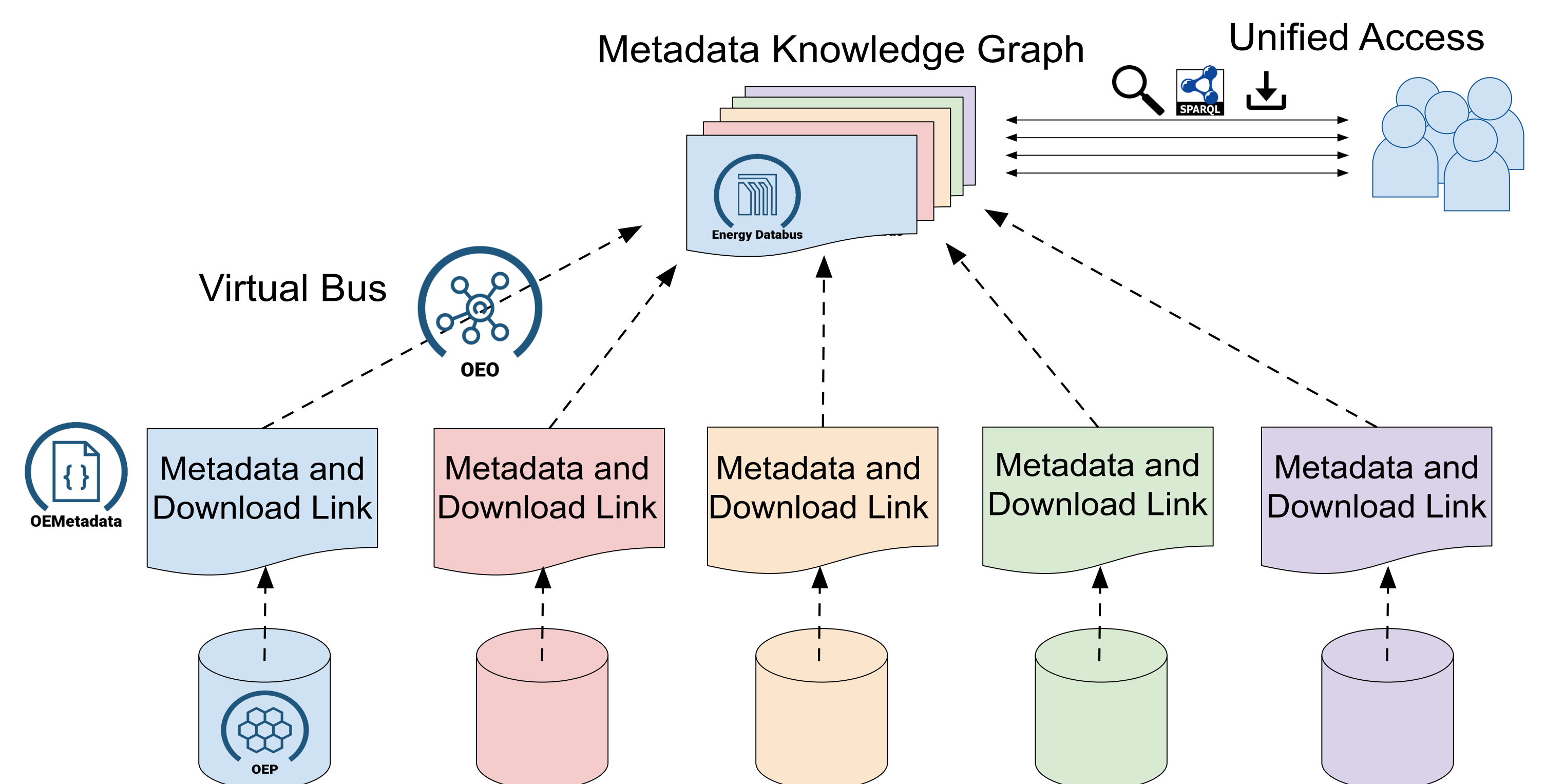


OpenEnergyMetadata serve as a metadata schema for energy datasets and have been in development since 2015.

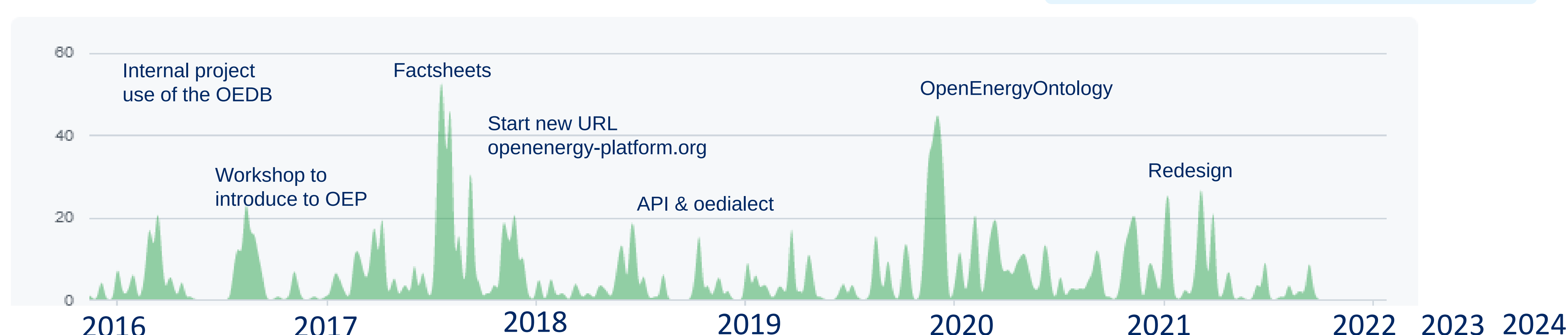
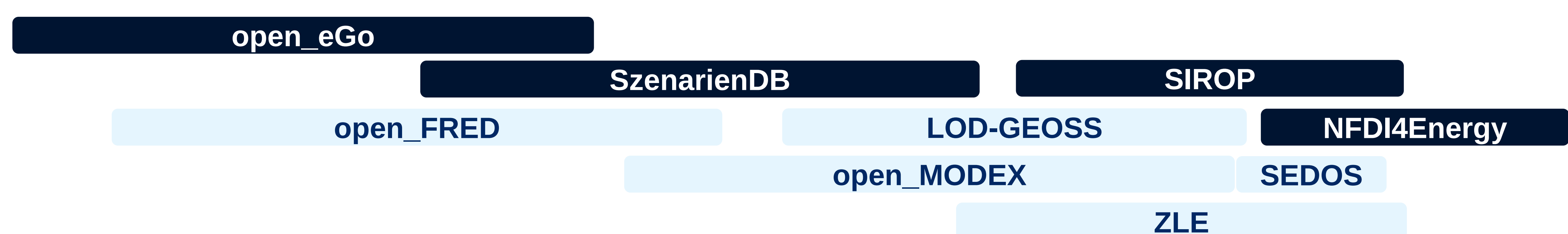


The OpenEnergyOntology serves as a domain ontology in the energy domain and has been in development since 2015.

Architecture



We have and will continue to connect and orchestrate current FAIR energy data initiatives in Germany to build synergies.



Newsletter

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Contact:
info@nfdi4energy.org



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