

2nd NFDI4Energy Conference



Report of Contributions

Contribution ID: 8

Type: **Presentation**

Enhancing Research Data Management through Use Cases in Energy Research

Tuesday 25 March 2025 13:45 (30 minutes)

PC conflicts

Primary author: FROST, Emilie

Presenters: WEIDLICH, Anke (INATECH - University of Freiburg); NIESSE, Astrid (Carl von Ossietzky University of Oldenburg); FROST, Emilie; SCHÄFER, Mirko (INATECH - University of Freiburg); SCHMURR, Philipp (Karlsruhe Institut for Technology - KIT)

Session Classification: Session 1

Contribution ID: 9

Type: **Presentation**

Which Policy Instruments Do Governments Use, and Which Ones Do Researchers Study? A Use Case for the Energy and Climate Policy Ontology

Tuesday 25 March 2025 14:15 (30 minutes)

Primary authors: CHAIANONG, Aksornchan (Friedrich-Alexander-Universität Erlangen-Nürnberg); WEKO, Silvia (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Presenters: CHAIANONG, Aksornchan (Friedrich-Alexander-Universität Erlangen-Nürnberg); BERSALLI, Germán (Friedrich-Alexander-Universität Erlangen-Nürnberg); MILIORITSAS, Ioannis (Friedrich-Alexander-Universität Erlangen-Nürnberg); JOHAN, Lilliestam (Friedrich-Alexander-Universität Erlangen-Nürnberg); WEKO, Silvia (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Session Classification: Session 1

Contribution ID: 10

Type: **Presentation**

Query Term Recommendation Using Domain-Specific Ontologies and Sentence Transformers

Tuesday 25 March 2025 13:45 (30 minutes)

Primary author: MUHAMMAD, Aamir (TIB)

Presenters: MUHAMMAD, Aamir (TIB); ENGEL, Felix (TIB)

Session Classification: Session 1

Contribution ID: 11

Type: **Presentation**

Towards an ontology for co-simulation scenarios of energy systems

Tuesday 25 March 2025 14:15 (30 minutes)

Primary author: SCHWARZ, Jan Sören (OFFIS –Institute for Information Technology)

Presenters: STEINERT, Alexandro (OFFIS –Institute for Information Technology); WEIDLICH, Anke (INATECH - University of Freiburg); MONTI, Antonello (RWTH Aachen University); NIESSE, Astrid (Carl von Ossietzky University Oldenburg); SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg); SCHWARZ, Jan Sören (OFFIS –Institute for Information Technology); FUENTES GRAU, Laura (RWTH Aachen University); LIU, Nan (Karlsruhe Institut for Technology - KIT); SCHMURR, Philipp (Karlsruhe Institut for Technology - KIT); QUSSOUS, Ramiz (INATECH - University of Freiburg); GERMAN, Reinhard (Friedrich-Alexander-Universität Erlangen-Nürnberg); LEHNHOFF, Sebastian (OFFIS - Institute for Information Technology); HAGENMEYER, Veit (Karlsruhe Institute of Technology - KIT); PAN, Zhiyu (RWTH Aachen University)

Session Classification: Session 1

Contribution ID: 12

Type: **Presentation**

An Energy Data Platforms for Whom? Understanding the Needs and Data Sharing Attitudes of the Energy Research Community

Wednesday 26 March 2025 09:00 (30 minutes)

Primary author: HOFFART, Franziska M. (Sociological Research Institute Göttingen)

Presenters: HOFFART, Franziska M. (Sociological Research Institute Göttingen); KERKER, Nina (Sociological Research Institute Göttingen); WERTH, Oliver (OFFIS –Institute for Information Technology)

Session Classification: Session 2

Contribution ID: 13

Type: **Presentation**

Bridging the gap between Industry and Academia - An Overview of Data Sharing Possibilities

Wednesday 26 March 2025 09:30 (30 minutes)

Primary author: FRITZ, Philipp (Karlsruhe Institute of Technology - KIT)

Presenters: WEINHARDT, Christof (Karlsruhe Institute of Technology - KIT); SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg); FRITZ, Philipp (Karlsruhe Institute of Technology - KIT)

Session Classification: Session 2

Contribution ID: 14

Type: **Presentation**

Exploring the Potential of Freely Available Satellite Data for Energy Applications

Wednesday 26 March 2025 09:00 (30 minutes)

Primary author: MATAR, Jessy (Fortiss GmbH, Munich, Germany)

Presenters: MATAR, Jessy (Fortiss GmbH, Munich, Germany); KOUBAA, Mahdi (Fortiss GmbH, Munich, Germany); DUCHON, Markus (Fortiss GmbH, Munich, Germany)

Session Classification: Session 2

Contribution ID: 15

Type: **Presentation**

Where do Germany's electricity imports come from? A tale of energy system data availability and interpretation

Wednesday 26 March 2025 09:30 (30 minutes)

Primary author: SCHÄFER, Mirko (INATECH - University of Freiburg)

Presenters: WEIDLICH, Anke (INATECH - University of Freiburg); SCHÄFER, Mirko (INATECH - University of Freiburg); BUCKLEY, Tiernan (INATECH - University of Freiburg)

Session Classification: Session 2

Contribution ID: 16

Type: **Presentation**

Scalable and Interoperable Data Infrastructure in Energy Domain

Wednesday 26 March 2025 13:30 (30 minutes)

Primary author: SHOYARI, Mahsa Faraji (Fortiss GmbH, Munich, Germany)

Presenters: SHOYARI, Mahsa Faraji (Fortiss GmbH, Munich, Germany); DUCHON, Markus (Fortiss GmbH, Munich, Germany)

Session Classification: Session 3

Contribution ID: 17

Type: **Presentation**

Enhancing Software Sustainability: Transferring Open-Science Solutions from ZLE to NFDI4Energy

Wednesday 26 March 2025 14:00 (30 minutes)

Primary author: MANZEK, Luca (OFFIS - Institute for Information Technology)

Presenters: STEINERT, Alexandro (OFFIS - Institute for Information Technology); NIESSE, Astrid (Carl von Ossietzky University of Oldenburg); ENGEL, Bernd (Technische Universität Braunschweig); PE-NAHERRERA VACA, Fernando (OFFIS - Institute for Information Technology); WAGNER, Henrik (Technische Universität Braunschweig); NIEMANN, Laura (OFFIS - Institute for Information Technology); MANZEK, Luca (OFFIS - Institute for Information Technology); BREITNER, Michael H. (Leibniz University Hannover); WERTH, Oliver (OFFIS - Institute for Information Technology); LIER, Sarah (Leibniz University Hannover); LEHNHOFF, Sebastian (OFFIS - Institute for Information Technology)

Session Classification: Session 3

Contribution ID: 18

Type: **Presentation**

Towards a Metadata Scheme for Energy Research Software

Wednesday 26 March 2025 13:00 (30 minutes)

Primary author: FERENZ, Stephan Alexander (Carl von Ossietzky University of Oldenburg; OFFIS)

Presenters: NIESSE, Astrid (Carl von Ossietzky Universität Oldenburg); WERTH, Oliver (OFFIS - Institute for Information Technology); FERENZ, Stephan Alexander (Carl von Ossietzky University of Oldenburg; OFFIS)

Session Classification: Session 3

Contribution ID: 19

Type: **Presentation**

DOTs, Further evolution of an open-source energy system simulation platform

Wednesday 26 March 2025 13:00 (30 minutes)

Primary author: VAN SCHOOTEN, Leo (Eindhoven University of Technology)

Presenters: KOK, Koen (Eindhoven University of Technology); VAN SCHOOTEN, Leo (Eindhoven University of Technology); XIANG, Tony (Eindhoven University of Technology)

Session Classification: Session 3

Contribution ID: 20

Type: **Presentation**

Participatory Data-Driven Research Pathways: Toward More Accepted and Realistic Energy System Models

Wednesday 26 March 2025 13:30 (30 minutes)

Primary author: SPECK, Christina (Karlsruhe Institute of Technology)

Presenters: CHAIANONG, Aksornchan; SPECK, Christina (Karlsruhe Institute of Technology); WEINHARDT, Christof (Karlsruhe Institute of Technology); HOFFART, Franziska M. (Sociological Research Institute Göttingen); LILLIESTAM, Johan (Friedrich-Alexander-Universität Erlangen-Nürnberg); SCHÄFER, Mirko (INATECH - University of Freiburg); KERKER, Nina (Sociological Research Institute Göttingen); WEKO, Silvia (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Session Classification: Session 3

Contribution ID: 21

Type: **Presentation**

Sectoral Demand Modeling in German Long-Term Energy Scenarios

Wednesday 26 March 2025 14:00 (30 minutes)

Primary author: PETERS, Finn Niklas (INATECH - University of Freiburg)

Presenters: WEIDLICH, Anke (INATECH - University of Freiburg); BURGHARDT, Célia (INATECH - University of Freiburg); PETERS, Finn Niklas (INATECH - University of Freiburg); SCHÄFER, Mirko (INATECH - University of Freiburg)

Session Classification: Session 3

Contribution ID: 22

Type: **Poster**

Integration of regulatory constraints from a policy database into the energy system modeling tool atlite

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: DAVIDSON, Hannah (Albert-Ludwigs-Universität Freiburg)

Presenters: CHAIANONG, Aksornchan; DAVIDSON, Hannah (Albert-Ludwigs-Universität Freiburg); MILIORITSAS, Ioannis (Friedrich-Alexander-Universität Erlangen-Nürnberg); LILLIESTAM, Johan (Friedrich-Alexander-Universität Erlangen-Nürnberg); SCHÄFER, Mirko (INATECH - University of Freiburg); QUSOUS, Ramiz (INATECH - University of Freiburg)

Session Classification: Poster Session

Contribution ID: 23

Type: **Poster**

Enhancing FAIR Principles in Research Software: Ontology and Metadata Annotations for the Energy System Model AMIRIS

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: FREY, Ulrich J. (German Aerospace Center (DLR))

Presenters: ACHRAF EL GHAZI, A. (German Aerospace Center (DLR)); SCHIMECZEK, Christoph (German Aerospace Center (DLR)); NITSCH, Felix (German Aerospace Center (DLR)); HÜLK, Ludwig (Reiner-Lemoine-Institut); FREY, Ulrich J. (German Aerospace Center (DLR))

Session Classification: Poster Session

Contribution ID: 24

Type: **Poster**

Towards a Simulation-as-a-Service Hub for the Energy Domain

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Presenters: MONTI, Antonello (RWTH Aachen University); NIESSE, Astrid (Carl von Ossietzky Universität Oldenburg); SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg); SCHWARZ, Jan Sören (OFFIS –Institute for Information Technology); FUENTES GRAU, Laura (RWTH Aachen University); GERMAN, Reinhard (Friedrich-Alexander-University Erlangen-Nürnberg); LEHNHOFF, Sebastian (OFFIS - titute for Information Technology)

Session Classification: Poster Session

Contribution ID: 25

Type: **Poster**

Extending a Data-Centric Distributed Simulation Framework for the Energy Domain

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Presenters: SEIWERTH, Corinna (Friedrich-Alexander-Universität Erlangen-Nürnberg); HALIKULOV, Nurbek (Friedrich-Alexander-Universität Erlangen-Nürnberg); GERMAN, Reinhard (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Session Classification: Poster Session

Contribution ID: 27

Type: **Poster**

Using Open Data for the Analysis of Public Charging Infrastructure in Germany

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: EGER, Kolja (Hamburg University of Applied Sciences (HAW Hamburg))

Presenter: EGER, Kolja (Hamburg University of Applied Sciences (HAW Hamburg))

Session Classification: Poster Session

Contribution ID: 28

Type: **Poster**

Application and extension of 223P ontology for the district heating domain

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: WALLNER, Steffen (Fraunhofer IOSB)

Presenters: WOLFF, Christian (Fraunhofer ISE); WALLNER, Steffen (Fraunhofer IOSB)

Session Classification: Poster Session

Contribution ID: 29

Type: **Poster**

Poster: Towards Guidelines for Engineering of Energy Research Software

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: FERENZ, Stephan Alexander (Carl von Ossietzky Universität Oldenburg; OFFIS)

Presenters: NIESSE, Astrid (Carl von Ossietzky Universität Oldenburg); FROST, Emilie; WERTH, Oliver (OFFIS e. V. –Institute for Information Technology); SCHRAGE, Rico (OFFIS - Institute for Information Technology); FERENZ, Stephan Alexander (Carl von Ossietzky Universität Oldenburg; OFFIS); WOLGAST, Thomas (Carl von Ossietzky University of Oldenburg)

Session Classification: Poster Session

Contribution ID: 30

Type: **Poster**

Unveiling Openness in Energy Research: A Bibliometric Analysis Focusing on Open Access and Data Sharing Practices

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: LU, Linna (TIB)

Presenters: WEIN, Amanda (OFFIS - Institute for Information Technology, Carl von Ossietzky Universität Oldenburg); LU, Linna (TIB)

Session Classification: Poster Session

Contribution ID: 31

Type: **Poster**

Federated power infrastructure data, from models to digital twins

Wednesday 26 March 2025 10:45 (1h 15m)

PC conflicts

Primary author: ARELLANO RUIZ, Eugenio Salvador (German Aerospace Center (DLR))

Presenters: HOYER-KLICK, Carsten (German Aerospace Center (DLR)); ARELLANO RUIZ, Eugenio Salvador (German Aerospace Center (DLR)); GILS, Hans Christian (German Aerospace Center (DLR)); SCHMUGGE, Jens (German Aerospace Center (DLR))

Session Classification: Poster Session

Contribution ID: 32

Type: **not specified**

Market of Consortia - KonsortSWD

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: **33**

Type: **not specified**

Market of Consortia - NFDI4Earth

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: 34

Type: **not specified**

Market of Consortia - Berd@NFDI

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: 35

Type: **not specified**

Market of Consortia - NFDI-MatWerk

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: **36**

Type: **not specified**

Market of Consortia - NFDI4ING

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: 37

Type: **not specified**

Market of Consortia - FAIRmat

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia

Contribution ID: **38**

Type: **not specified**

Market of Consortia - Text+

Tuesday 25 March 2025 15:15 (1h 30m)

PC conflicts

Session Classification: Market of Consortia