

4th Expert Workshop, 14-15 May 2025

Design and Operation of Digitalized Sector-Coupled Energy Systems

Shape the future of sector coupling and digitalization of energy in Europe!

Venue

OFFIS - Institute for Information Technology in Oldenburg, Germany

Registration

The number of participants will be limited. Details regarding the registration process will follow soon.

Scope

Following the great success of the previous workshops in Hamburg, Vienna and Stockholm, we aim again to bring together experts from Europe to exchange insights and create a roadmap on possible trends and research directions for design and operation of digitalization of sector-coupled energy systems and sector integration

- **Sector-coupling:** Challenges, applications, and best practices in sector coupling and integration at both system and component levels, including pilot projects, energy communities, innovative technologies, and more
- **Energy Data:** Leveraging potential enablers in data spaces, interoperability, regulations, and standardization for effective sector coupling
- **Digitalization:** Digital technologies that support sector coupling and integration, such as AI, digital twins, IoT, communication systems, cloud solutions, cybersecurity, and simulations.
- **Flexibility:** System architectures and operational strategies to enhance flexibility management, energy markets, TSO-DSO-Customer coordination, congestion management, etc.

Organization Committee:

OFFIS: Prof. Dr.-Ing. Astrid Nieße, Dr.-Ing. Jirapa Kamsamrong, Dr.-Ing. Anand Narayan
KTH: Assoc. Prof. Dr. Qianwen Xu, Prof. Lars Nordström
TUHH: Prof. Dr.-Ing. Christian Becker, Dr.-Ing. Payam Teimourzadeh Baboli
Hamburger Energienetze GmbH: Dr. Davood Babazadeh
AIT: Priv.-Doz. Dr. Thomas Strasser, Dr. Edmund Widl

Sponsors:

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Verband der Elektrotechnik Elektronik Informationstechnik

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14 May 2025 (11:00 – 18:00)

- **Welcome / Introduction**
- **Keynote**
 - Peter Schmidt, EWE GASSPEICHER GmbH
- **Session 1 – Energy Data** (Presentations & Panel Discussion)
 - Enno Wieben, EWE NETZ GmbH
 - Hussain Syed Kazmi, KU Leuven
 - Olivier Genest, Trialog
 - Astrid Nieße, OFFIS – Institute for Information Technology
- **Session 2 – Flexibility** (Presentations & Panel Discussion)
 - Venizelos Efthymiou, EPL Technology Frontiers
 - Tara Esterl, Austrian Institute of Technology (AIT)
 - Sören Clausen, Hamburger Hochbahn AG
 - Anke Weidlich, University of Freiburg
- **Discussion & Brainstorming**
- **Pitching**
- **Working Dinner**

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15 May 2025 (08:00 – 16:00)

- **Keynote**
- **Session 3 – Sector Coupling** (Presentations & Panel Discussion)
 - Tobias Hennig, Amprion GmbH
 - Christian Becker, Hamburg University of Technology (TUHH)
 - Madeleine Gibescu, Utrecht University
 - Meysam Qardan, Cardiff University
- **Session 4 – Digitalization** (Presentations & Panel Discussion)
 - Moustafa Chenine, Vattenfall Netherlands
 - Matthias Postina, EWE AG
 - Luis-Martin Krämer, e-regio GmbH
 - Shari Maria Alt, August-Wilhelm Scheer Institut
- **Lab Tour**
- **Discussion & Brainstorming**
- **Wrap-up and Closing**

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Travel and Stay



Hotels

- **B&B:** Alexanderstraße 1-5, 26121 Oldenburg
- **Altera:** Herbartgang 23, 26121 Oldenburg
- **Best Western:** Melkbrink 47-52, 26121 Oldenburg
- **Hive:** Rosenstraße 4, 26122 Oldenburg
- **Other hotels**

Event Location

OFFIS – Institute for Information Technology

Address: [Industriestraße 11, 26121 Oldenburg, Germany](#)

Dinner Location

Ratskeller Oldenburg, [Markt 1, 26122 Oldenburg](#)

From OFFIS, it is 15 mins by bus or 30 mins by foot.



Reaching OFFIS: <https://www.offis.de/offis/kontakt/anfahrt.html>

Flight to Bremen

- Bremen airport is around 45 km away from Oldenburg.
- You can take a tram from the Bremen airport to Bremen main station (Hauptbahnhof)

From Bremen to Oldenburg

- **Train:** From Bremen main station, trains to Oldenburg run every 30 minutes
- **Taxi:** Approximate 150-170 EUR

From Oldenburg train station to OFFIS – Institute for Information Technology

- It is about about 3 km from Oldenburg main station to OFFIS.
- **Bus:** You can take **bus 308 (Direction: Rauhehorst or Wechloy)** and get off at Industriestraße station. A one-way bus ticket costs €2.90 and can be purchased from the bus driver
- **Taxi:** You can also take a taxi (around €10)
- **Walk** from the city center (around 2 km)

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Impression from the previous 2024 workshop in Stockholm, Sweden



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