

# EERA Energy Systems Integration meeting

Bochum, January 23-25, 2023

Registration via: <https://forms.office.com/e/t8jxWFgk0P>

January 23 – IC-Building, 2<sup>nd</sup> floor, room 156

14.00 – 17:00 Digitalisation and markets for the future weather-driven energy system (Henrik Madsen)

The European Commission has promoted the deployment of the Digitalisation of Energy Action Plan (DoEAP), in order to develop an efficient, competitive market for a digital energy infrastructure and digital energy services that are both cyber-secure and sustainable.

Digitalisation and data exchange will help suppliers and energy service providers to innovate and cope with an increasing share of renewables in more decentralised but integrated energy systems. In this session we will focus on data-driven methodologies and new market structures for unlocking the needed flexibility at all levels of the energy systems.

19.00 Informal dinner (paid individually, place will be announced in due course)

January 24 – Event Center (VZ - ) – room 3

9:00 – 11:00: ESI pilots (Peter Breuhaus)

Today several projects focus on the developing tools and models for integrated energy systems and also develop scenarios for future integrated energy systems. Some activities are also targeting the demonstration of these integrated approaches at pilot sites.

When implementing integrated energy systems at pilot sites, especially when considering and integrating more than only one end-user site (i.e. beyond the micro grid) practical issues might hinder the efficient installation as well as harvesting the full potential of such an approach.

The idea of the workshop is to collect and address some the practical challenges of implementing integrated energy systems and discuss to which extend these should be included into the activities of the ESI (e.g. modelling, forecasting, end user involvement ...) . This might be of relevance for the transition path towards energy and resource efficient integrated energy systems.

11:00 – 13:00: Interactive poster session + lunch (Nelli Putkonen & Juha Kiviluoma)

The idea of the poster session is to facilitate future consortium formation for HEU (and other) calls. Each participant is invited to present their interest, expertise and tools in the domain of Energy System Integration. The focus and form are free, but the poster should communicate your possible contributions to different topics (not necessarily limited to the foreseeable calls).

The poster should be A0 in size, and include an EERA logo. Please bring the poster with you on January 24 and indicate your participation in the online form:

<https://forms.office.com/e/t8jxWFgk0P>

Example list of potentially relevant calls:

- HORIZON-CL5-2023-D3-01-01: Renewable Energy Valleys to increase energy independence while accelerating the green transition in Europe

- HORIZON-CL5-2023-D3-03-03: System approach for grid planning and upgrade in support of a dominant electric mobility (vehicles and vessels) using AI tools
- HORIZON-CL5-2023-D3-03-04: Digital tools for enhancing the uptake of digital services in the energy market
- HORIZON-CL5-2024-D1-01-05: Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement
- HORIZON-CL5-2024-D3-01-12: Energy Management Systems for flexibility services
- HORIZON-CL5-2024-D4-01-03: Alternative heating systems for efficient, flexible and electrified heat generation in industry” Each participant has the opportunity to display their expertise, tools and interests in relation to future HEU and other calls

13:00 – 17:00: Steering Committee meeting (Laurens de Vries)

Agenda for the SC meeting is added at the end of the document. We will try to arrange that people not attending the meeting in person can join the SC meeting online.

18:30 Dinner ([Brauhaus Rietkötter, Große Beckstraße 7, 44787 Bochum](#))

## January 25 – IC-Building, 2<sup>nd</sup> floor, room 156

9:00 – 12:30 The role of consumers in the energy system (Kristiane Lindland)

The workshop has two main elements: a presentation session and a session for collaboration initiatives.

The *presentation session*: 3 – 4 presentations related to consumers in energy systems integration. The approach can be embedded in different disciplines. Each presentation will be up till 15 minutes, followed by 15 minutes discussion.

The *collaboration initiative* session consists of presentation of ideas for collaboration. This can be initiatives for developing research applications, writing projects or for example more long term work on building up a research group within a specific area.

Members who want to present papers or projects, or ideas for potential projects/activities/ proposals, **need to send in a request to [kristiane.m.lindland@uis.no](mailto:kristiane.m.lindland@uis.no) by January, the 10th.**

12:30 – 13:30 Lunch

13:30 – 17:30 Hydrogen workshop (Valentin Bertsch, Goran Strbac)

A selection of suitable HEU calls in the area of H<sub>2</sub> will be presented initially. In sub-groups, participants will discuss who could contribute what (based on existing models/methods, data, projects) to potential joint proposals.

## Steering Committee meeting agenda (January 24)

- 13:00            Opening
- 13:05 – 13:20    Governance and updating the overall ESI setup (Laurens)
- Board member election needed (chance for all member to get more involved)
  - Proposal: updating of the sub-programmes and Description of Work in general  
→ creation of a working group
  - First draft of new structure presented in April, Brussels
  - Elections board: fall 2023
- 13:20 – 13:30    Financial overview (Laurens & Susanne)
- Overview 2022
  - Budget 2023
- 13:30 – 13:40    Invoicing (Susanne)
- Updates on membership fee collection and process
- 13:40 – 14:00    Presentation from possible new members
- CIRCE (Luis Miguel Lou)
  - Université de Liège (Sylvain Quoilin)
- 14:00 – 14:30    Overview working groups and JP digitalisation
- Updates JP digitalization (Annette)
  - Consumer (Kristiane)
  - Hydrogen (Goran)
  - Digitalisation (Henrik)
- 14:30 – 15:00    Coffee break
- 15:00 – 15:20    April Brussels program (Laurens)
- 15:20 – 15:40    Joint MSc Program proposal (Valentin)
- 15:40 – 16:00    Long-term work program, ESI research agenda (Laurens)
- 16:00 – 16:10    EERA ESI website (Susanne)
- 16:10 – 16:30    EERA update (Ganna)
- 16:30 – 17:00    Any Other Business
- Member updates
  - Mopo project starting (Juha Kiviluoma & Nelli Putkonen): energy system modelling tools, data and scenario management tools

### Attachments:

- Meeting agenda
- Participant list
- Financial overview 2022
- Budget 20223

## Logistics

### *Travel:*

- Workshop and meeting on Jan 24<sup>th</sup> take place here: <https://goo.gl/maps/WC75N9ABkmKi62xc6>
- For travel advice, see here: [https://www.ruhr-uni-bochum.de/anreise/bus-und-bahn\\_en.html](https://www.ruhr-uni-bochum.de/anreise/bus-und-bahn_en.html)

### *Accommodation (prices are valid for 2023):*

- *Ibis Bochum Zentrum, Universitätsstr. 3, 44789 Bochum, [www.ibishotel.com](http://www.ibishotel.com)*  
Phone: ++49 234/33311  
Booking Code: SC332619717  
Rate single room: 72,31 € (outside the trade fair period) – Rate double room: 89,84 € (outside the trade fair period) - inclusive breakfast buffet
- *Mercure Hotel Bochum City, Massenbergr. 19-21, 44787 Bochum, [www.mercure-hotel-bochum.de](http://www.mercure-hotel-bochum.de)*  
Phone: ++49 234/9691221  
Booking Code: Customer number: SC322194168  
Rate single or double room: 90,00 € (outside the trade fair period)  
Breakfast buffet: 10,00 €/person