



## A policy workshop and a technical workshop on Energy System Integration near Copenhagen 24-25<sup>th</sup> of May

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### Policy workshop: How to get to a 100% renewable energy system? Developing the flexibility we need by integrating energy systems

Date and timing: 12:30-17:45, Thursday 24 May 2018  
Location: UNEP – UN City, Marmorvej 51, 2100 Copenhagen  
Organizer: EERA ESI JP, ESIG and CITIES  
Registration: This workshop is open, but registration is required via [this link](#) or directly via <https://goo.gl/forms/vCnovlXexNPziP5X2>

The Energy Systems Integration (ESI) Programme of the European Energy Research Alliance (EERA), the Technical University of Denmark's Centre for IT-Intelligent Energy Systems (CITIES) and the Energy Systems Integration Group (ESIG) are organizing a workshop on the role of energy systems integration in absorbing large volumes of variable renewable energy sources in Copenhagen in the afternoon of May 24, 2018. The workshop, at which energy sector representatives and academics will exchange ideas, is organized alongside the Clean Energy Ministerial and the Nordic Clean Energy Week.

The workshop program will contain four key note speakers and four panelists who are active in the energy sector from industry, academy and policy makers.

Each key note speaker will be followed by a discussant from EERA. We would like to invite you to join this workshop and exchange ideas on "How to get to a 100% renewable energy system".

#### **Program (Chair: Henrik Madsen, DTU)**

12:30-13:30 Lunch  
13:30-13:40 Welcome by **Laurens de Vries**, Joint Program Coordinator, EERA Energy Systems Integration  
13:40-13:50 Welcome by **Katrine Krogh Andersen**, Senior Vice President DTU  
13:50-14:25 Key note speech by **Kim Behnke**, Deputy director, Danish District Heating Association.  
Discussant: **Juha Kiviluoma**, VTT  
14:25-15:00 Key note speech by **Sonya Twohig**, System Operations ENTSO  
Discussant: **Erik Delarue**, KU Leuven  
15:00-15:35 Key note speech by **Torben Funder-Christensen**, Vice President Danfoss  
Discussant: **Goran Strbac**, Imperial College  
15:35-16:00 Tea break  
15:00-16:35 Key note speech by **Debra Lew**, Technical Director at GE Energy Consulting.  
Discussant: **William D'haeseleer**, KU Leuven

- 16:35-17:35 Panel discussion. Moderator: **Mark O'Malley**, NREL. Panel members:
- **Dolf Gielen**, Director IRENA Innovation and Technology Centre
  - **Hans-Åge Nielsen**, Director of gas division Energinet.dk
  - **Simon Furbo**, Associate Professor Solar Energy, DTU
  - **Eric Bosman**, Former General manager trading & portfolio management at Engie, Visiting Professor KU Leuven Electricity & Gas Markets
- 17:35-17:45 Closing remarks by **Patrick van Hove** of the European Commission.

Before this event you can attend the session: "**Mission Innovation Challenges accepted – what's next?**" at EERA/DTU. To read more about this session or to register: please follow [this link](#).

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## Technical Workshop: The next generation energy system models

- Date and timing: 8:30-13:10, Friday 25th May 2018  
Location: DTU, Lungby  
Organizers: EERA ESI JP and EU project Spine  
Registration: This workshop is open, but registration is required via <https://goo.gl/forms/YF1hKrXv1nkMjJTU2>

EERA ESI in collaboration with the EU project Spine will organize a workshop discussing the next generation of energy system models. The workshop will be held in conjunction with the EERA ESI policy workshop (held on the 24<sup>th</sup> of May) and the Clean Energy Ministerial meeting at Copenhagen. The workshop will be a series of discussions about potentially beneficial modelling capabilities in future energy system models. Each discussion topic will consist of a short intro by the chair, then a couple of addresses on the topic where each discussant introduces a solution with a rationale and finally questions and comments from the audience. Each address should last 5-15 minutes (depending on the number of addresses) with a maximum of 2 slides.

**Call for addresses** within the following topics within the scope of energy system modelling:

- temporal representation
- sectoral coupling: where to split, why and how
- practical solutions for linking models of different time scales
- representing operational detail in planning models: what is important and what is not
- data sources, data quality and data processing for other energy sectors than the power system
- how to model the impact of policies and regulations
- how to model both short term and long term uncertainties

Please register a title for your address(es) in the registration form (link above) before the 17<sup>th</sup> of May. It is also possible just to register to the workshop without an address.

Preliminary agenda (will be filled based on the submitted titles):

- 8:30 Registration and coffee
- 9:00 Discussion sessions
- 10:50 break
- 11:20 Discussion sessions
- 13:10 Lunch