

Notes from the DfE EB meeting:

The meeting will be jointly held with the EERAdat meeting. A team formed by VJS, MC, and RMG is selected for preparing the conference up to now.

One of the main outcomes of this joint conference will be a white paper focused on AI.

There is some discussion about how the structure of the event might be and on how deep the technical presentations should come. In this sense, it is agreed that a guidance on what is expected from the speakers could be sent.

Meetings for preparing the conference should follow by next week.

RMG must broadcast the event within DfE and EERA

EERAdat plan for this workshop (application)

The EERAdat workshop series discusses the FAIRification and opening of energy research data in and with the low carbon energy research community. An online discussion is upcoming on July, 6th with invited talks and a panel discussion. Agenda:

10.00-10.05	Welcome and introduction
10.05-10.20	FAIR data collective , Nikola Vasijevic, (DTU Wind Energy, GOFAIR Facilitator Team)
10.20-10.35	FAIR data resources - examples from the life sciences , Susanna-Assunta Sansone, (University of Oxford)
10.35-10.50	Data management in the BIG-MAP project and its relation with the BATTERY 2030+ community , Ivano Castelli, DTU Energy
10.50-11.00	<i>Break</i>
11.00-11.15	From energy community principles to the EERAdat platform , Manfred Paier, AIT.
11.15-12.00	Panel discussion with Q&A

The objective of the online discussion is to prepare the 3rd EERAdat community workshop which is upcoming in October 2021. In this workshop participants explore use cases to:

- manage the implementation of FAIR and open principles,
- identify and test workflows for the FAIRification and opening of databases, and
- collaborate on a community paper "AI & data-driven science for the energy transition".

Draft agenda for EERAdat-DfE conference: 12-14 Oct, 2021

- Table of confirmed speakers below

Tue-Thu	EERAdat	DfE
Morning session	Internal admin meeting	Arrival
Afternoon session	Who is there and why? (1h) 14.00 • EERA and introductory presentation (Let's say Adel and/or DG Energy), 15' • ENEA introductory presentation (TBD), 15' • General DfE presentation (Rafa), 20' • EERAdat (Massimo) 5' Conference content (Presentation of topics of interest) - 1h-2h 15./15.30 - 17.30 • Introduction to community paper (output of the conference, Valeria) • Invited Speaker 1 (HPC + Energy (SP1) + EoCoE), 30' • Invited Speaker 2 (workflows (Rosa M Badía, https://eflows4hpc.eu/), 30' • Invited Speaker 3 (value of AI and FAIR for energy (?)), 30' • Discussion & Q&A Time in between to go to the hotel or so. Joint dinner in the evening - 20.00?	
Morning session 9-13 (incl. breaks)	I) Invited talk: workflow II + best practice example for a use case (data focussed) II) Presentation of use-cases from DfE, JPs and EERAdat - max. 15. ESI, AMPEA, Hydro, NM, e3s and JP initiated projects. Candidates: hydro, e3s (COMETS, EERAdat - workflows for FAIR COMETS inventory), EERAdat use cases (energy efficiency in buildings, electricity markets, energy & energy efficiency policies), materials (AMPEA, EERAdat use case), FCH, nuclear (ENTENTE project), energy system integration. Energy data space application (present planned use cases to collect feedback for the application which is due one week later). III) Discussions. Open questions: Can we find some entertaining way of presenting the use cases and facilitating the discussion? The goal is to inform on use cases and to become clear about what will happen in the afternoon and who would like to join which parallel session to work on the community paper. Who presents the use cases - get in contact asap.	
Afternoon session 14-17	Discussion in parallel sessions (structured by input to community paper). Prepare specific questions that should be discussed in the sessions to collect input to the paper. <u>"AI and data-driven science for the energy transition" community-paper</u> Insight view & outside perspective On the value of data & AI for the energy transition. - Where does the value from data and AI applications come from in the energy sector? Review of literature, bringing together evidence. - C.f. How expensive is FAIR compliance and how expensive is it to not be FAIR compliant - RDA 11th Plenary BoF meeting: Cost and benefit analysis of FAIR; big data value example from wind sector - What is the role of data sharing and open data in that context - from research data to business sector data? Elaboration on the problem: where can incentives for sharing and opening data come from? One hypothesis: through collaboration more value can be created. Collect examples where it works. Elicit more details to the problem. Licensing. On the role of energy research to enable realizing energy data & AI value chains. What is done and can be done by energy research? What is beyond the energy research domain? Keywords: Prerequisites - Support in work-flows (FAIR/O data accessibility to have training and validation datam Data analytics & HPC; Needs and gaps for users of energy AI and data-driven science; Advancing AI and data-driven science practices (Practical explorations as examples to show that there is more than plenty concepts); Overcoming barriers - changing practices and policy frameworks.	

	3. Conclusions: Lessons learned & recommendations - what is needed from energy research, from outside? - Acknowledgements - References	
Morning session	Plenary to wrap up discussion from the sessions the day before and to define how to continue working on the paper	
Afternoon session	Discussion in use cases: how to plan online collaboration work to advance the use case	Departure

Speaker	Topic	Confirm	Suggested alternative person	Confirm
Plenary session				
Adel El Gammal	EERA Intro	Yes		
<i>TBD</i>	ENEA			
Rafa	DfE	Yes		
Massimo	EERAdat	Yes		
Valeria Jana	Comm Paper	Yes		
Edouard Aoudit	DfE SP1	Yes	In the afternoon if possible	
Rosa M ^a Badía	eflows4hpc	Yes	Either on the morning or 4 pm on	
<i>Astrid Unger</i>	AI&FAIR for energy	Yes		
Use cases				
<i>TBD</i>	Workflow II			
Peter Breuhaus	ESI UC	Yes		
David Lacroix	AMPEA UC	Yes		
Eduard Doujak	Hydro UC	Yes		
Marjorie Bertolus	NM UC	Yes		
<i>TBD</i>	E3S UC (COMETS)			
<i>TBD</i>	Energy in buildings			
<i>TBD</i>	Energy markets			
<i>TBD</i>	Energy policies			
<i>TBD</i>	FCH UC			
Marta Serrano	Nuclear data	Yes	----	---
“AI and data-driven science for the energy transition” community-paper				

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