



**UN CLIMATE
CHANGE
CONFERENCE
UK 2021**

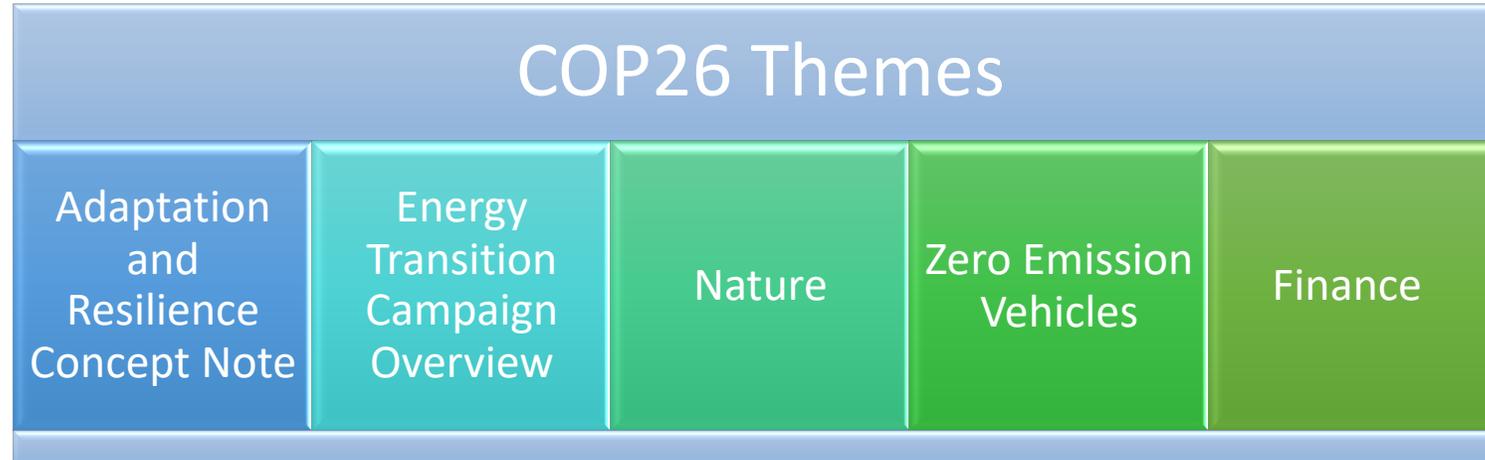
COP26 Hackathon: Climate risk in future energy system reliability and uncertainty

Sarah Sparrow, David Wallom, David Brayshaw, Tim Woollings



COP26 Hackathon series (Feb-May 2021)

Collaborative problem solving with a goal of producing outputs that may feed into COP26 in November 2021.



Met Office COP26 Hackathons

- Nature Based Solutions
- Sustainable Development
- Coastal

Met Office Academic Partner COP26 Hackathons

- Oxford
- Reading
- Bristol
- Exeter

Energy Hackathon

- Oxford and Reading Partnership
- Climate risk in future energy system reliability and uncertainty.

Motivation

Challenge:

- Energy system decarbonisation.

Problem:

- Many solutions increase the exposure of the energy system to climate risk.

Hackathon:

- Identify 'gaps' and 'barriers' at the energy-climate boundary.
- Develop solutions to improve data exchange, risk quantification, model development and end-user solutions.

Format of the event



25 Feb:
Challenge
Brainstorm

Community generation of ideas/topics.
Refinement and selection of ideas to develop in the hackathon.



22-26 Mar:
Hackathon

Teams work on the proposed topics with mentor support.
Cross-team discussion to capitalise on all available expertise.
Presentation to expert panel.



Looking for:
Participants

Interested in the intersection of climate and energy.
People with ideas of topics/areas to be tackled
Some software skills



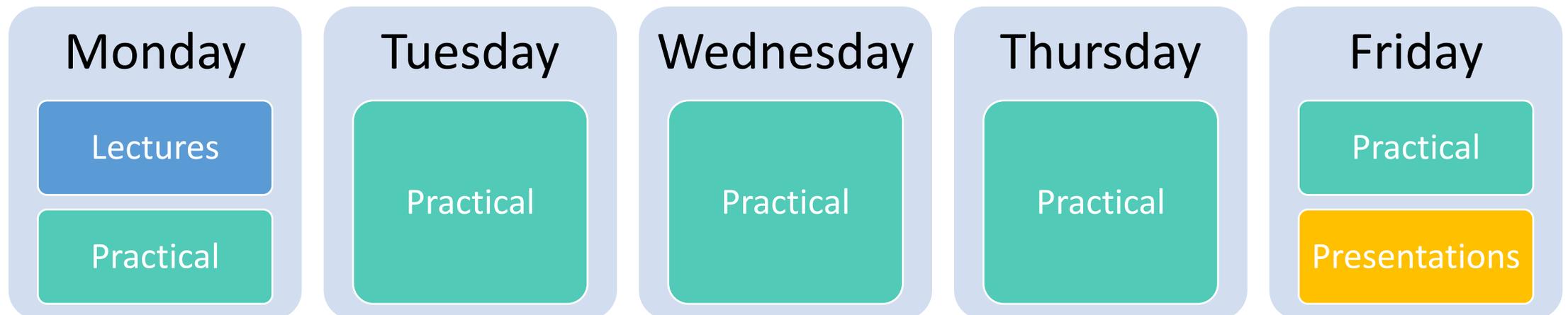
Looking for:
Leaders and
Mentors

Able and willing to support or lead development of a software project.
Experts in climate risk, energy risk, mathematical and physical modelling of energy/climate.

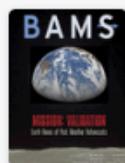
Hackathon Event(22-25 March 2021)



Participants will report back on progress to the wider group throughout the week.



If you're interested but looking for some ideas and inspiration...



**Bulletin of the American
Meteorological Society**

☰ Early Online Release ▾

▾ Metrics

▾ Related Content

Article Type: **Research Article**

 Full access

The importance of weather and climate to energy systems: A workshop on Next Generation Challenges in Energy-Climate Modelling

Bloomfield H.C.¹, **Gonzalez P.L.M.**², **Lundquist J.K.**³, **Stoop L.P.**⁴,
Browell J.⁵, **Dargaville R.**⁶, **De Felice M.**⁷, **Gruber K.**⁸, **Hilbers A.**⁹,
Kies A.¹⁰, **Panteli M.**¹¹, **Thornton H.E.**¹², **Wohland J.**¹³,
Zeyringer M.¹⁴, and **Brayshaw D.J.**¹⁵

View Less —

Published-online: **19 Oct 2020**

DOI: <https://doi.org/10.1175/BAMS-D-20-0256.1>

Page(s): **1–23**



Expected outcomes

- Development of new collaborations.
- Greater understanding of the 'gaps' and 'barriers' between energy and climate.
- Feasibility assessment of novel ideas.
- Community developed ideas to take forward into collaborative proposals.
- Outputs to potentially feed into COP26.

Interested in getting involved?

Fill out the [form](#) or contact: sarah.sparrow@oerc.ox.ac.uk

https://forms.office.com/Pages/ResponsePage.aspx?id=xDv6T_zswEiQgPXkP_kOX2zZMZMnADhBuWwC6tQxnvhUNVlxWUoySEIwUTY0SFIRUU9INTE1UzIHOC4u