RMetS
Royal Meteorological Society

Workshop Required Information

Title of Workshop:	How can meteorology and climate science better support the transition to a low-carbon energy future?"
Session Day	Wednesday 2nd July, 1630-1800
Workshop Summary (150 words max)	Energy systems around the world are undergoing rapid and far-reaching change. From the growing use of weather-sensitive renewables and changes in demand patterns to the increasing exposure of key infrastructure assets, the need for meteorological information to manage weather and climate risk has never been greater. Nowhere is this more obvious than in being able to accurately characterise 'extreme weather' events. Through hands-on 'case study' activities, this workshop will discuss some of the scientific challenges associated with producing high-quality actionable climate information for energy system operations and planning. Working with others from both the energy and climate communities, participants will think of new ways to address these challenges using research emerging from the meteorological community, asking the question: how can meteorological science better support the transition to a low-carbon energy future?
Workshop Programme/format:	Format: cabaret/classroom case-study based discussion Kick off (1630-1635) – workshop chair (*David*) Weather/Climate for future energy systems (1635-1650) – Robin Preece (Uni of Manchester) Case study 1 – Site-specific nuclear hazards (1650-1720) – Yuting Chen (EDF Research) • Introduction (10 mins) and group discussion (20 mins) Case study 2 – Compound weather event risks for power systems (1720-1750) – Ben Hutchins (University of Reading) • Introduction (10 mins) and group discussion (20 mins) Summary and close (1750-1800) – workshop chair (*David*)
Workshop Chair(s)	David Brayshaw, Professor in Climate Science and Energy Meteorology, University of Reading Ben Hutchins, PhD Student, University of Reading
Workshop Speakers	David Brayshaw, Professor in Climate Science and Energy Meteorology, University of Reading Ben Hutchins, PhD Student, University of Reading Robin Preece, Associate Professor in Future Power Systems, University of Manchester Yuting Chen, Lead Research Engineer, EDF Research
Theme(s) addressed:	4. Extreme events in a changing climate
Intended outcomes:	• Explore how meteorology and climate science can better support the transition to a resilient, low-carbon energy system. • Examine the challenge of characterising extreme and compound weather events relevant to future energy system planning and operation. • Co-develop ideas for producing high-quality climate services for the energy sector through case-study based collaborative activities.