

# The Royal Meteorological Society and the Energy Sector

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Our mission: To advance the understanding of weather and climate and its application for the benefit of all

## Who

We are the UK's professional body for weather and climate.  
We want to help bridge the gap between weather and climate science, and energy sector professionals.

## What

We have set up an Energy Special Interest Group (SIG) to determine how weather and climate relates to the sector's needs and inform our engagement with the sector.

## How

We are running events (see below) that help set the research agenda and educate the energy sector about weather and climate.  
We are producing blogs, briefing papers and reports for the energy sector.

## Weather/climate questions facing the energy sector

	Most important	Most difficult
How common will compound extreme events be under climate change, and what impact will they have on the energy sector?		
How can we effectively predict and prepare for weather-induced faults in distribution networks?		
How prepared are electricity generators for a sustained wind drought, and could this be skilfully predicted by seasonal forecasts?		
How can seasonal forecasts improve policymakers' and traders' decision making? What further useful information can they provide?		
How can we move away from using historical weather data and stress-test the energy system against weather in 2050 and beyond?		
Which climate projections are most relevant for the energy sector, and how can we provide data at a resolution which is useful?		



What have we missed? Let us know by scanning this QR code!

Place your sticker in these columns to tell us which questions you think are the most important to the energy sector, and the most difficult to answer.



## Upcoming events

### Energy, Weather and Climate Forum

Virtual, 1:30pm-4:30pm BST, 12 October 2023

This event will be divided into **three streams**:

- operations and maintenance using short-term forecasts
- trading and strategic planning using seasonal forecasts
- long-term planning using climate projections

Agenda:

1. Three **keynote speeches**, discussing these timescales and giving background on the physical science.
2. Three **interactive roundtable discussions**, giving you the opportunity to discuss pressing issues, and begin to propose solutions or areas where further research is required.

The outputs of this event will help **shape the research agenda** of weather, climate and energy over the next few years, and inform how the Royal Meteorological Society engages with the energy sector.

### 2023-24 Winter Seasonal Forecast Launch

Free webinar, 2:30pm GMT, 30 November 2023

This event will bring together weather and climate scientists, operational seasonal forecasters and representatives from across the energy sector to discuss how seasonal forecasts are used in the energy sector, and **look ahead to the 2023/24 winter seasonal forecast**.

**Adam Scaife**, Head of Monthly to Decadal Prediction at the Met Office, will introduce what a seasonal forecast is, what uncertainties are associated with them and how they have improved over the last few decades. He will then examine the 2023/24 winter seasonal forecast from the Met Office.

This will be followed with responses from various energy sector professionals, about **what the forecast means for the sector**.