

Accelerating real-world energy innovation





# ERA Conference 2024 A Race Against Time – Energy Innovation for Net-Zero

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www.era.ac.uk





















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## Housekeeping

#### **Fire Alarm**

Fire Exits and Assembly Point

#### **Bathrooms**

#### **Mobile phones**

Please put on silent, if you need to take or make a call, please leave the room.

#### Questions

You will have the opportunity to ask questions after each presentation and there will be a dedicated Q&A before we close.



## **Welcome to Cranfield University**



Water, Energy and Environment



Aerospace transport and manufacturing



Cranfield Defense and Security



Cranfield School of Management



Our Vision: To be valued globally for tackling the realworld issues of today to deliver a sustainable future.



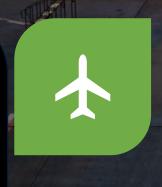
Blueprint for Zero Emission Flight <u>and</u> Infrastructure



HYDROGEN ENERGY INNOVATION



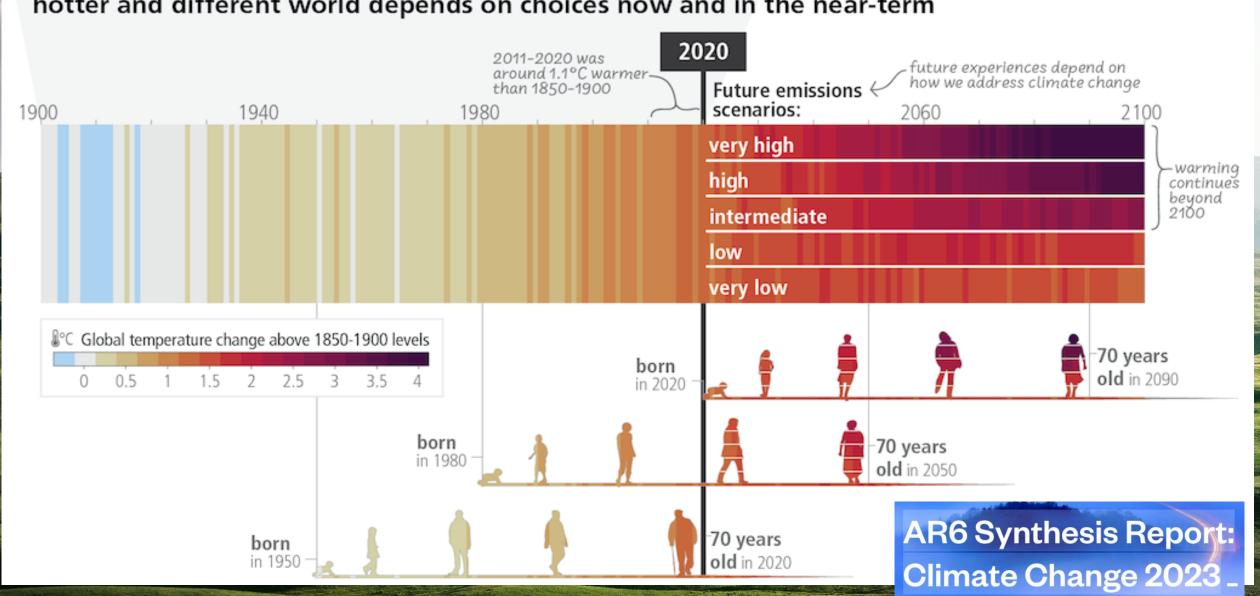
HYDROGEN SYSTEMS INTEGRATION

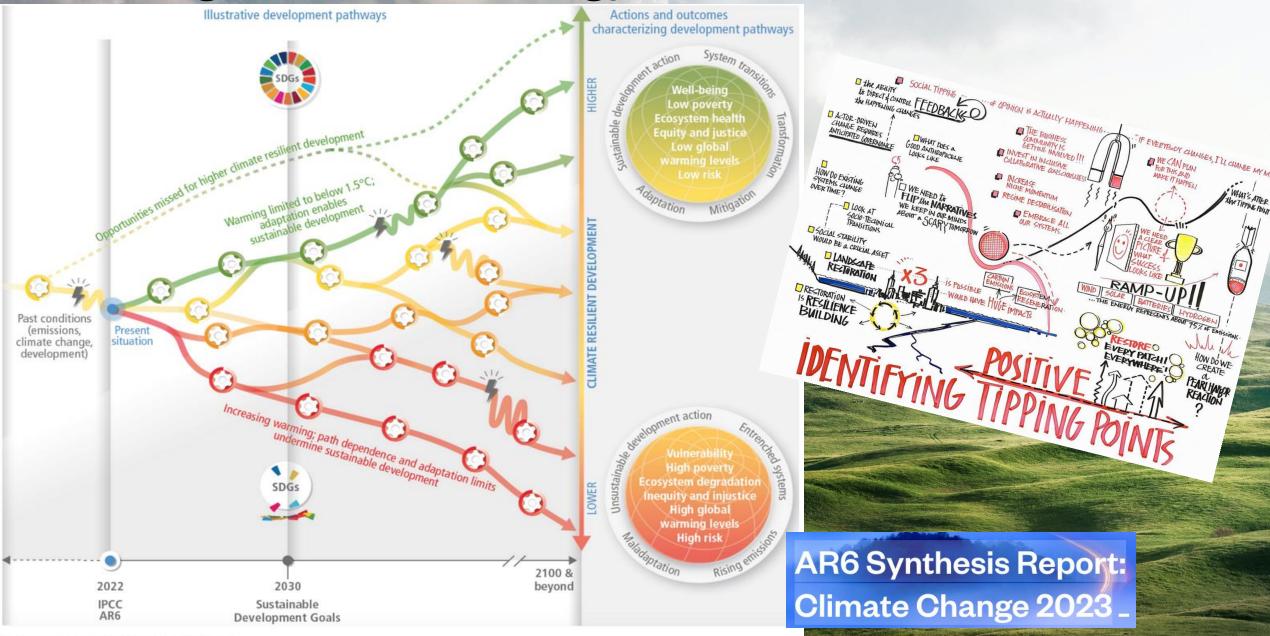


ENABLING JET ZERO



c) The extent to which current and future generations will experience a hotter and different world depends on choices now and in the near-term





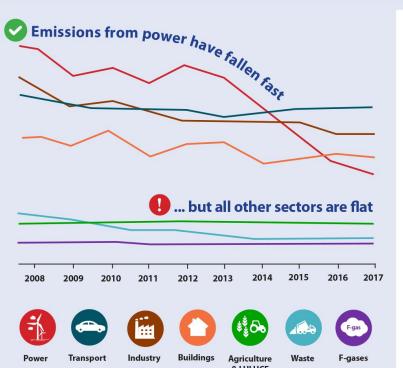
Source: The Intergovernmental Panel on Climate Change

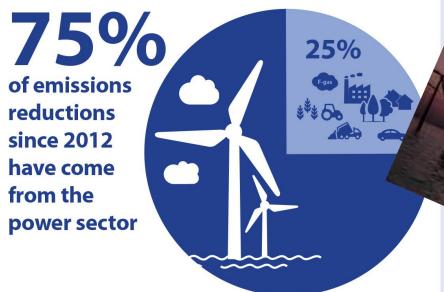


Committee on Positive Tipping Points for the U.K.

Excellent progress in reducing emissions from electricity generation masks failure in other sectors

The UK's greenhouse gas emissions have reduced by 43% compared to 1990 levels, on the way to a target of at least an 80% reduction by 2050.





Clear goals, ambitious strategy and well-designed policies have been effective. These lessons must now be applied to other sectors

MISSION ZERO

Independent Review of Net Zero

Scale Up and Pace of the energy transition is key to drive Positive Tipping Points

15. The Review's findings are unequivocal: we must grab this opportunity, there is no future economy but a green economy. And with the recommendations set out to turbocharge our approach across key industries, catalyse action in homes, community halls, and local and national government across the country, we can.





Thank you all Enjoy the day & do stay in touch





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