





# KEYNOTE

**DAVID FERGUSON,  
HEAD OF NET ZERO INNOVATION,  
EDF UK**

# NET ZERO FOR INNOVATION & INNOVATION FOR NET ZERO

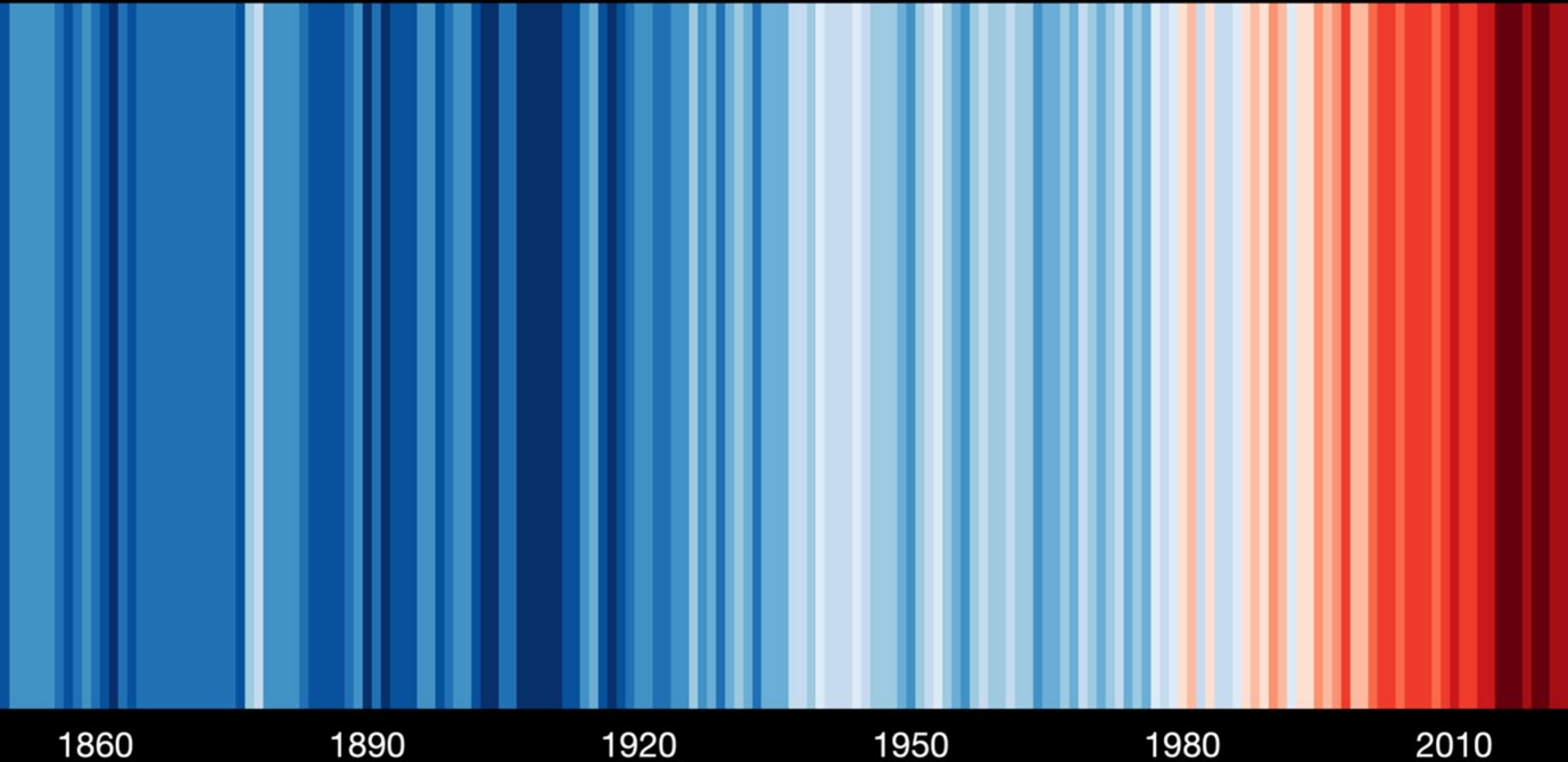
David Ferguson

Head of Innovation, EDF and Non-Exec Director  
Exeter Science Park

CHANGE IS IN *OUR POWER*



# Global temperature change (1850-2022)



# A SIMPLE PLAN FOR NET ZERO



- 1 Make electricity **low carbon**
- 2 Electrify **everything**
- 3 Solve the '**hard to abate**' challenges
- 4 **Clean up** what's left





Hinkley Point C - Helping Britain Achieve Net Zero









# A SIMPLE PLAN FOR NET ZERO



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# OUR R&D AND INNOVATION PRIORITIES



Increase **Digital Innovation** activities in particular with EPRs (HPC/SZC)



Contribute significantly to extending SZB's lifespan to 60+ years (**SZB LTO**)



Continue to develop **Advanced Modular Reactor** expertise whilst developing services to external vendors



Play a pivotal role in the development of EDF UK **climate change adaptation plan** (ADAPT UK)



Deliver competitive edge on grid scale and behind the meter **Flexibility and Storage**



Contribute to our HP, EV, solar, and flexibility businesses, leading the development of integrated **Net-Zero Solutions** for homes and businesses



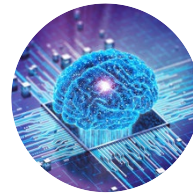
Anticipate and address potential **Grid Stability** issues and impacts for our nuclear and renewable business.



Support **Industry Decarbonization** projects in the UK, including process electrification, H2 production, and data centers, to increase electricity demand



Address operational issues while developing key technological differentiators and advanced numerical tools for **Offshore wind**



Shape EDF UK **AI strategy** and assist in its deployment across various parts of our business

# UK SCIENCE PARKS AND NET ZERO

1) DELIVER GENUINELY NET ZERO SCIENCE PARKS



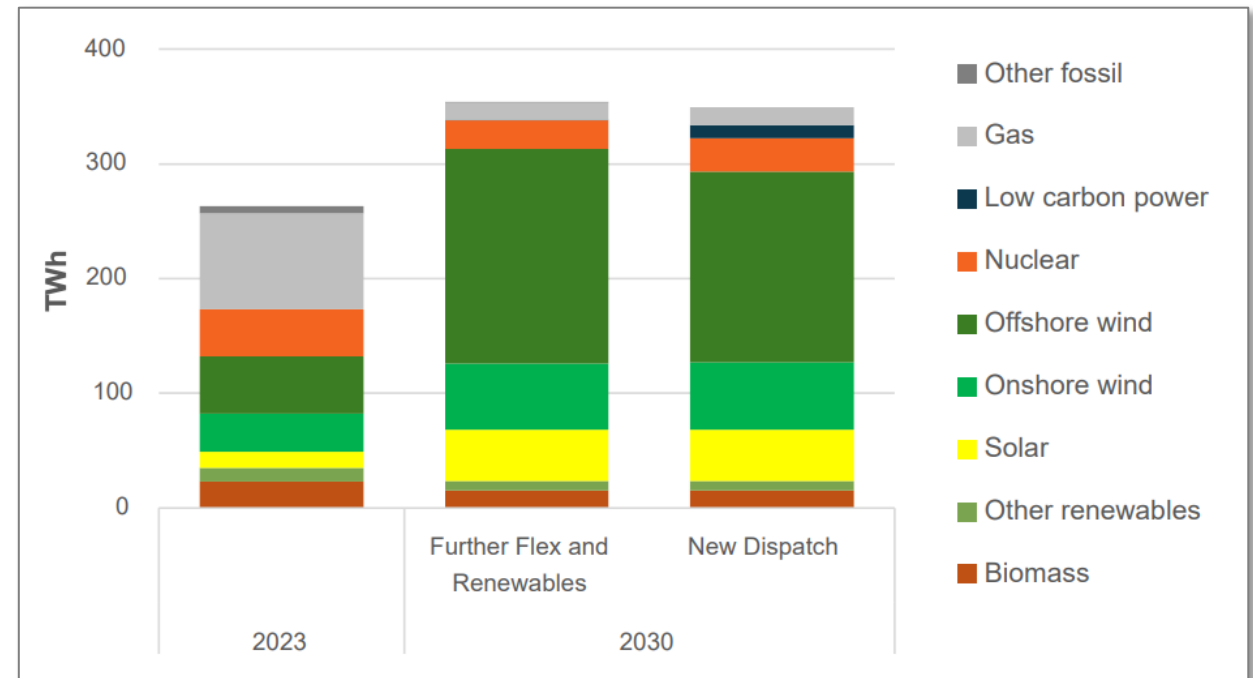
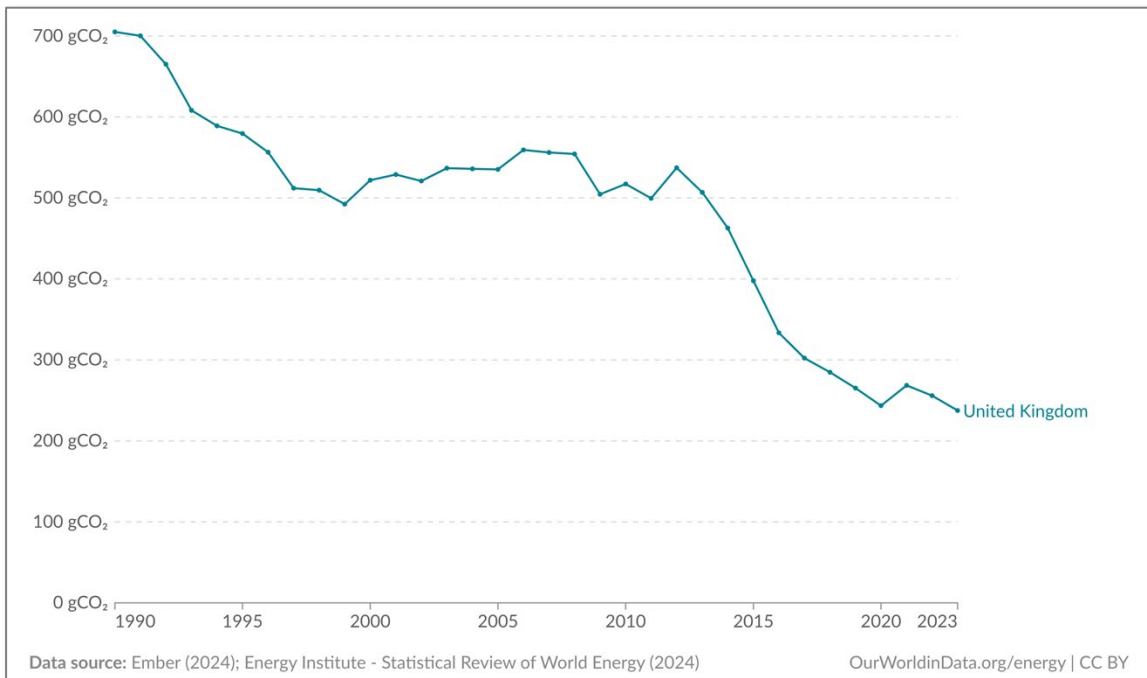
2) SUPPORT THE UK'S GROWING CLIMATE TECH SECTOR



# 1) DELIVER GENUINELY NET ZERO SCIENCE PARKS – THE OPPORTUNITY



THE UK IS MAKING GOOD PROGRESS ON DECARBONISING THE POWER GRID



# 1) DELIVER GENUINELY NET ZERO SCIENCE PARKS – THE CHALLENGE

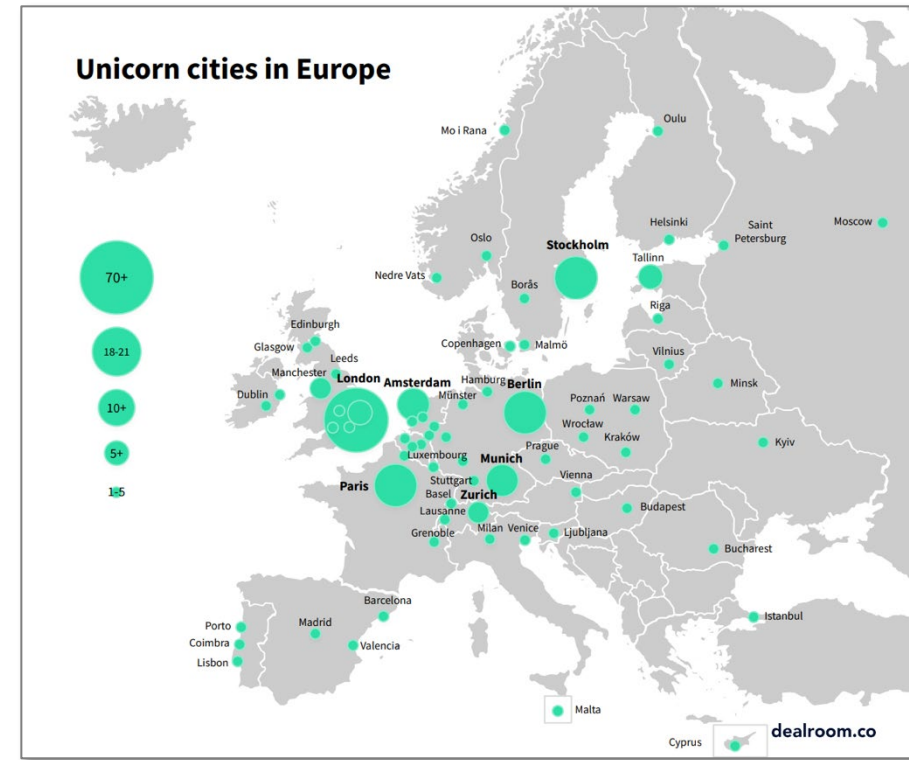
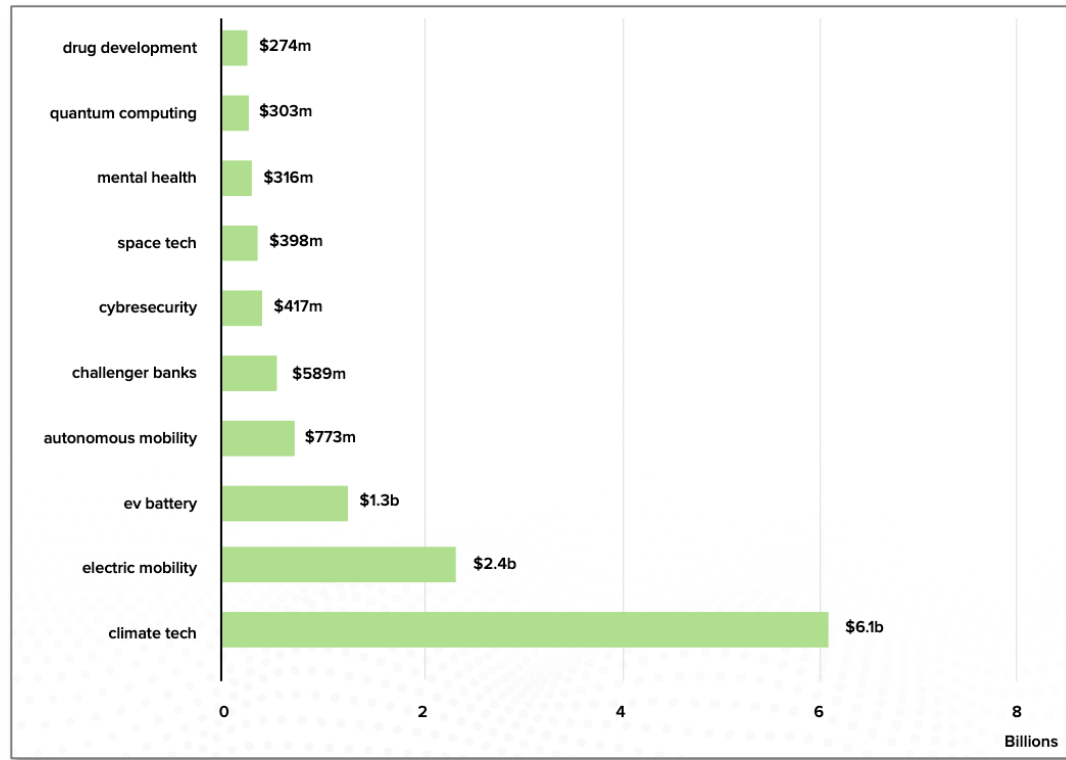
BUT DECARBONISING ALL ACTIVITIES WILL BECOME INCREASINGLY CHALLENGING

1. Low carbon heat
2. Flexibility and storage
3. 24/7 Carbon Free Energy



# 2) SUPPORT THE UK'S GROWING CLIMATE TECH SECTOR – THE OPPORTUNITY

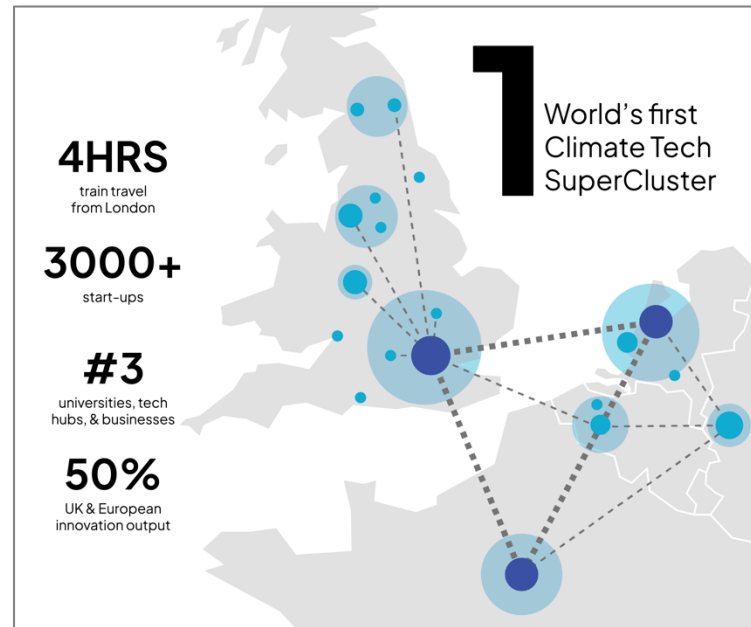
CLIMATE TECH IS THE LEADING DOMAIN IN FRONTIER TECHNOLOGIES IN THE UK



## 2) SUPPORT THE UK'S GROWING CLIMATE TECH SECTOR – THE CHALLENGE

BUT THE SECTOR FACES SERIOUS CHALLENGES AS IT GROWS. SCIENCE PARKS CAN HELP.

1. Join up
2. Help startups access capital
3. Create space for growth



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