

stop
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chaos.

Acting in a climate emergency

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Energy Transition Summit 2023

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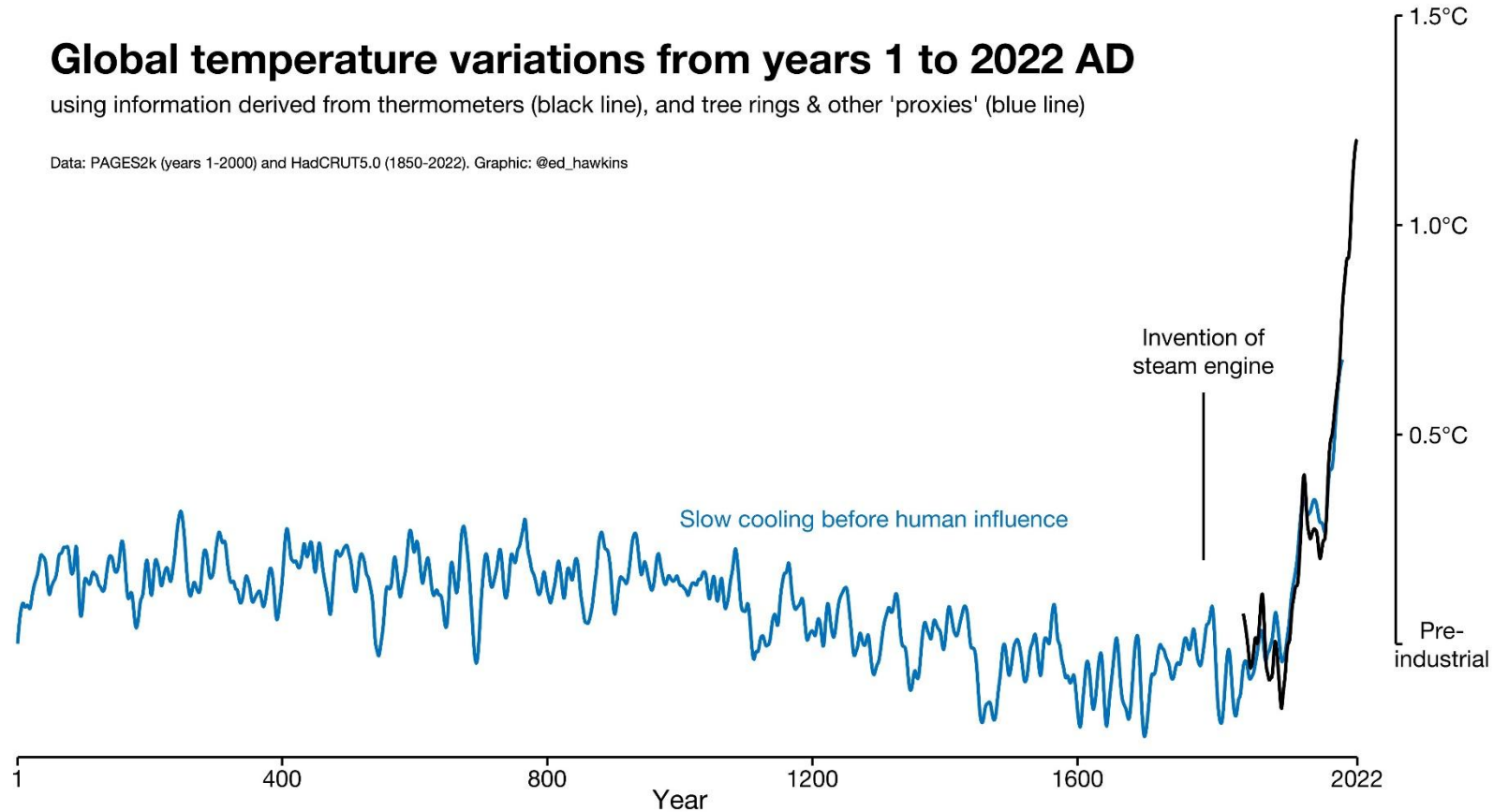
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We are *already* in a climate emergency

Global temperature variations from years 1 to 2022 AD

using information derived from thermometers (black line), and tree rings & other 'proxies' (blue line)

Data: PAGES2k (years 1-2000) and HadCRUT5.0 (1850-2022). Graphic: @ed_hawkins



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What must be done?



alamy

Image ID: 2GGG6AE
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Approximate global warming relative to 1850-1900 until temperature limit (°C)*(1)	Additional global warming relative to 2010-2019 until temperature limit (°C)	Estimated remaining carbon budgets from the beginning of 2020 (GtCO ₂)					Variations in reductions in non-CO ₂ emissions*(3)
		Likelihood of limiting global warming to temperature limit*(2)					
		17%	33%	50%	67%	83%	
1.5	0.43	900	650	500	400	300	Higher or lower reductions in accompanying non-CO ₂ emissions can increase or decrease the values on the left by 220 GtCO ₂ or more
1.7	0.63	1450	1050	850	700	550	
2.0	0.93	2300	1700	1350	1150	900	

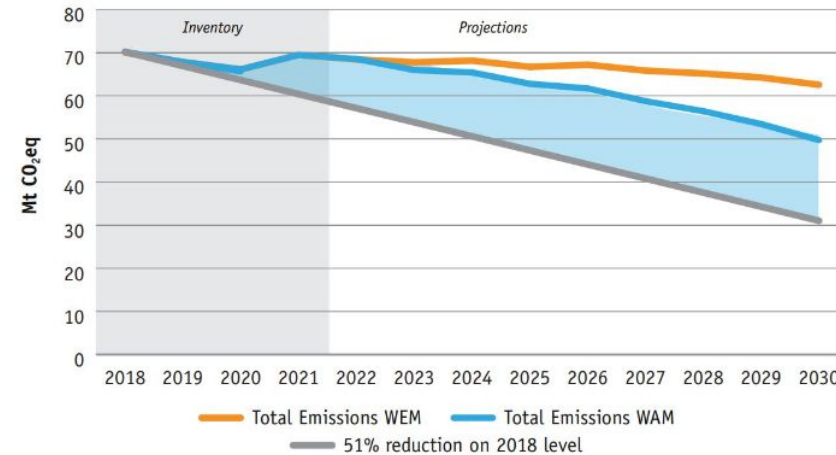
- Rapid phase out of fossil fuels
- Reduce GHGs by 43% by 2030, 50% CO₂ by 2030 GLOBALLY
- Double climate finance
- Electrify heating, transport and industry
- Aim for 100% RE-E as soon as possible after 2030
- Prepare for and adapt to 1.5-2°C of warming
- Shift to a sustainable agricultural and land use model
- Make space for nature and other species

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What is the government doing?

- We're on course to overshoot national carbon budgets 1 and 2
- Energy emissions declined by just under 2% in 2022
- Climate Action Plan not consistent with 2030 target/ carbon budgets
- Are national policies aligned with national and EU climate law?
 - Growing energy demand from DCs & LEUs
 - New fossil fuel infrastructure - gas
 - New housing construction

Total Greenhouse Gas Emissions (including LULUCF) under the *With Existing Measures* and *With Additional Measures* scenarios out to the year 2030



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What are we the people doing?

- Opinion polls show strong support for climate action
- But rollout of active travel and RE projects is facing local opposition
- Energy & transport poverty, income inequality threaten social cohesion
- Until the emergency is part of our sensory experience, people don't see the need to change behaviour
- A sustainable, fair future is our only future
- Where is the political leadership???



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What is business doing?

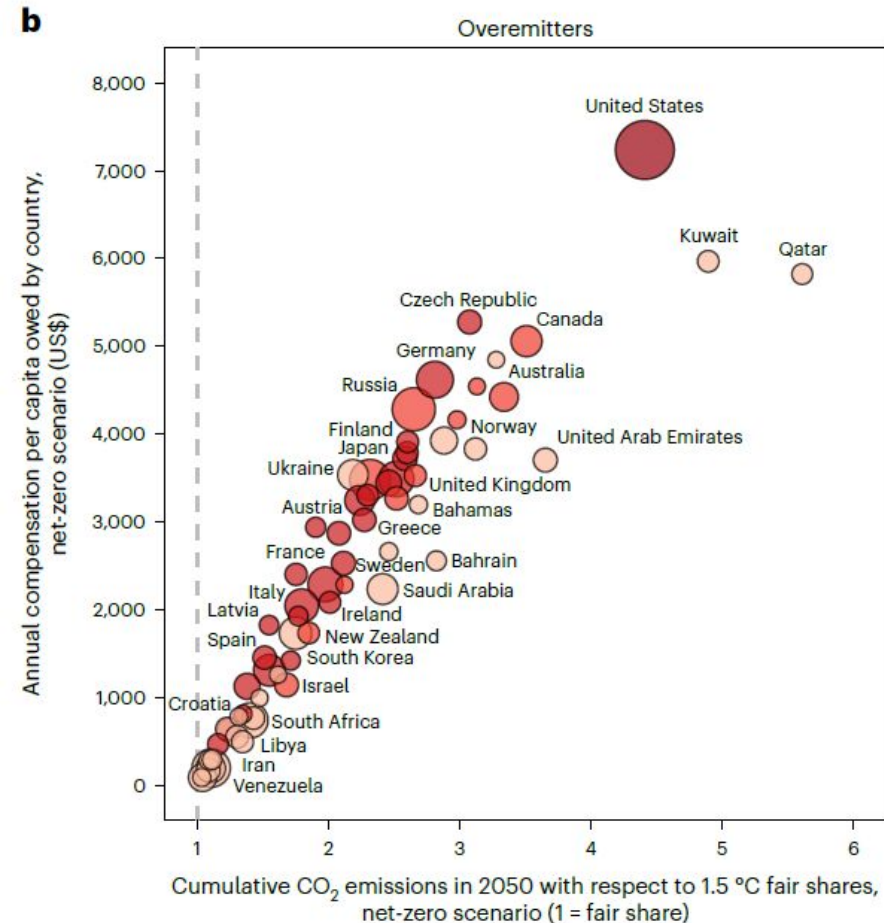
- It's not just about GHG reporting, it's about your business model and its global impact
- Disconnect between climate science and financial markets
 - Conventional analysis underestimates climate risks and cost of delay
 - Pensions, investments, savings are all at risk
 - Non-linear changes, tipping points in the climate system
- Greenwashing, citizenwashing and discourses of delay

“There are no jobs and no profits on a dead planet”

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The meaning of net-zero and how to get it right*

1. Front load emissions reductions
2. Targets should cover all GHGs
3. Don't bet on technofixes
4. Avoid the use of offsets
5. Ensure an equitable transition
6. Align climate actions with other socio-ecological goals
7. Seize opportunity to address market failures & global inequity



Sources: Fankhauser et al, 2022. The meaning of net zero and how to get it right. *Nature Climate Change*, 12(1), pp.15-21. Fanning, A.L. and Hickel, J., 2023. Compensation for atmospheric appropriation. *Nature Sustainability*, pp.1-10.



Thank you!
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