WHAT DIFFERENCE CAN THE COP27 CLIMATE CHANGE NEGOTIATIONS MAKE?

These are alternative futures for the East Midlands based on two scenarios: existing policies and actions only, and full implementation of all policies and actions that have been pledged for the future, eq net-zero targets.



WHAT YOU WOULD GET

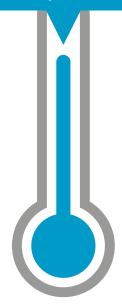
Annual change by 2100 from real world action based on CURRENT policies

+2.7°C (2.0-3.6°C)

What you COULD get

Annual change by 2100 from full pursuit of all ANNOUNCED net-zero targets and pledges

+1.8°C (1.5-2.4°C)



CORRESPONDING SEASONAL CHANGES

Winter temperature +2.4 (0.8-4.0)°C +1.1 (0.0-2.3)°C

Total winter rainfall +14 (-2-34)% +7 (-5-21)%

Heavy rainstorms?

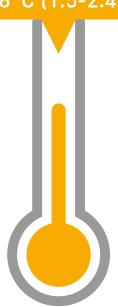
+50% +20%

Summer temperature +3.7 (1.7-5.7)°C +1.8 (0.7-3.1)°C

Heatwave summer?

Summer rainfall

-27 (-53-2)% -15 (-36-6)%



Even the optimistic alternative, where global governments deliver on all their promises, produces negative outcomes locally, such as the increased probability of winter floods and summer droughts, but the stay-as-we-are (current policies) alternative is significantly worse.

Data and information sources

All of the figures given are the 10th. 50th (median or most likely) and 90th centiles.

- https://climateactiontracker.org/global/cat-thermometer/
- metoffice.gov.uk/research/approach/collaboration/ukcp/summaries/headline-findings
- metoffice.gov.uk/binaries/content/assets/metofficegovuk/pdf/research/ukcp/ ukcp18-guidance-representative-concentration-pathways.pdf
- theccc.org.uk/publication/independent-assessment-of-uk-climate-risk/

