

1.5C Global Average Temp Rise within 5 years

There is a “66% chance” of global temperatures breaching 1.5C above pre-industrial temperatures within the next five years says World Meteorological Association (WMO). This is due to rising emissions and the El Niño weather pattern later this year (pumping warm water up from the Pacific).

Asian Heat Wave

Extreme heat 40C+ affecting one-third of the global population across a dozen countries in Asia last month made 30 times more likely by climate change. Such events could occur, on average, once in every two years when global warming reaches 2C above pre-industrial levels.

Migration Prediction

New research finds that billions of people could be forced out of their “human climate niche” as the planet warms. Current climate pledges – which would see global temperatures rise 2.7C above pre-industrial levels – could push 2 billion people out of their “climate niche”. Every 0.1C of warming 140 million people will be exposed to hazardous heat conditions.

China Photovoltaic (PV)

China's cumulative installed capacity of PVs to surpass hydropower by the end of 2023 and become the primary non-fossil energy source for electricity generation. In the first quarter of 2023, China achieved a newly installed PV capacity of 33 gigawatts (GW).

Global Biodiversity

Almost half of the earth's animal species are currently declining. The study examined population densities of more than 70,000 animals. It found 48% of species on earth are currently undergoing population declines with less than 3% increasing.

World Energy Investment

International Energy Agency (IEA) says solar power investment is set to outstrip spending on oil production this year. \$1.7tn is forecast to be spent on clean technologies compared with \$1tn on fossil fuels. Five years ago, the \$2tn in annual energy investment was split evenly.

Asian Water Supplies

Melting of Himalayan glaciers means 10 rivers Yangtze, Yellow river, Indus, Ganges... will experience floods & droughts affecting 16 Asian nations.

The War In Ukraine – UK Impact

Short term demand for fossil fuels + accelerated green technology development for the longer term

Oil & Gas

Five oil-and-gas fields in the North Sea marked for accelerated development - Cambo, Murlach, Talbot, Affleck & Victory. Nearly 900 locations are being offered for exploration & 100 licences set to be awarded.

Wind Power

Ambition is x5 increase in wind power to 50 GW by 2030 with continued expansion to 2050.
Offshore with approval times cut from 4 years to 1 year + ban on onshore wind may be lifted
Wind powered electricity nine times cheaper than current gas prices

Solar Power

Grow UK solar power currently 14GW to 70GW including rooftops - TBA

Nuclear

Increase UK nuclear from 16% to 25% by 2050 (x3 nuclear capacity)
Up to eight new reactors to be built on existing sites producing additional 24GW by 2050
West Burton selected as home of STEP fusion plant to prove low carbon electricity from fusion

Hydrogen

Double UK hydrogen production to 10GW by 2030 (50% green hydrogen large coastal facilities)

National Grid

Many solar, wind and local power schemes waiting for 10-15 years for connection to national grid