

Net Zero with Nature

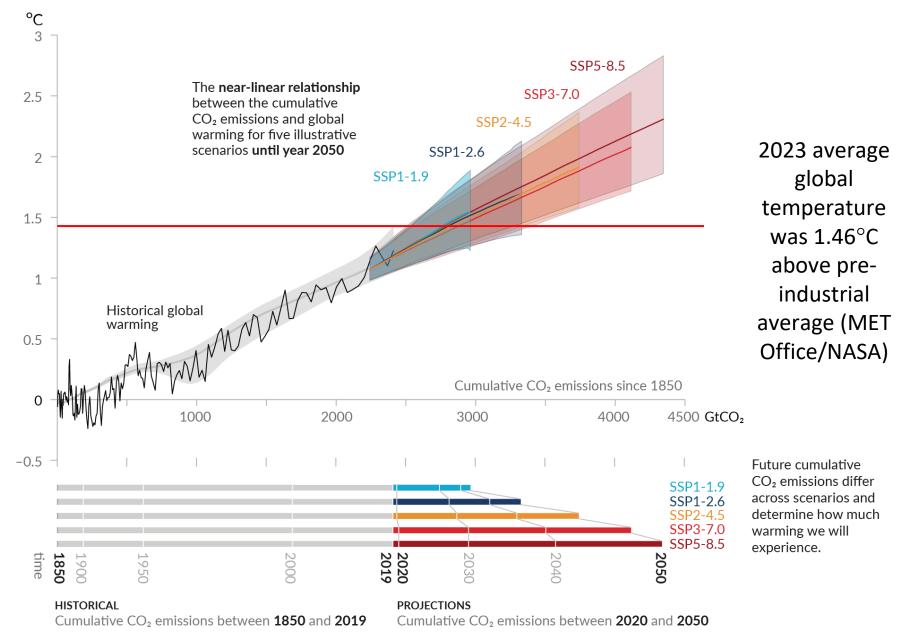
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Presented to New Forest Access Forum



Every tonne of carbon dioxide emissions adds to global warming

Global surface temperature increase since 1850–1900 (°C) as a function of cumulative CO₂ emissions (GtCO₂)





CLIMATE RISKS: 1.5°C VS 2°C GLOBAL WARMING



in flood risk. VS in f

170% increase in flood risk.

SPECIES

6% of insects, 8% of plants and 4% of vertebrates will be affected. 18% of insects, 16% of plants and 8% of vertebrates will be affected.

WATER AVAILABILITY

350 million urban residents exposed to severe drought by 2100.

410 million urban residents exposed to severe drought by 2100.

ARCTIC SEA ICE

Ice-free summers in the Arctic at least once every 100 years. Ice-free summers in the Arctic at least once every 10 years.

PEOPLE

9% of the world's population (700 million people) will be exposed to extreme heat waves at least once every 20 years. 28% of the world's population (2 billion people) will be exposed to extreme heat waves at least once every 20 years.

SEA-LEVEL RISE

46 million people impacted by sea-level vs rise of 48cm by 2100.

49 million people

impacted by sea-level rise of 56cm by 2100.

OCEANS

Lower risks to marine biodiversity, ecosystems and their ecological functions and services at 1.5°C compared to 2°C.

CORAL BLEACHING

70% of world's coral reefs are VS lost by 2100.

Virtually all
coral reefs a
lost by 2100.

COSTS

Lower economic growth at 2°C than at 1.5°C for many countries, particularly low-income countries.

FOOD

Every half degree warming will consistently lead to lower yields and lower nutritional content in tropical regions.

Global and National Targets



United Nations Paris Accord (2015) called for emissions to be 45% lower than 1990 levels by 2030 and net zero by 2050



United Kingdom Climate Change Act (2008) amendment in 2019 introduced a legally binding UK target of net zero by 2050

Commitments UK Government & National Parks



Net Zero for our parks by 2045 and 2030 for our operations.





By 2030 [England's] National Parks will be...known for having been pivotal in the transformation to a low carbon society and sustainable living.

Reduce net greenhouse gas emissions in Protected Landscapes to net zero by 2050 relative to 1990 levels.

CommitmentsNew Forest National Park



In the New Forest, we've made a commitment to work with partners and communities to make the National Park 'net zero with nature' by 2050, as well as working to become a net zero organisation by 2030.

What does net zero mean for the New Forest?

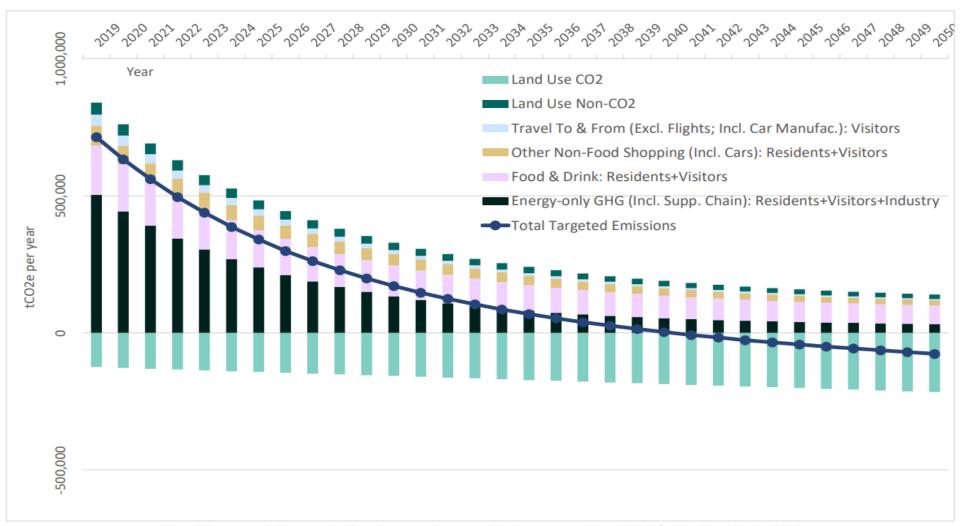


Figure 6: Recommended consumption-based target pathways resulting in net zero emissions in 2041 for New Forest National Park

What are these emissions sources anyway?

Energy use of residents, visitors and industry

Food and drink consumed by residents and visitors

Non-food consumables (including cars) of residents and visitors

Travel to and from the National Park by visitors

Land Use greenhouse gases emitted (non-CO₂)

Heating homes and cooking, electricity use in homes, **vehicle journeys** & flights taken by residents, ferries, trains and other transport by residents, gas and fuels used by industry.

Entire food & drink consumption, including from shops, restaurants, take-aways, pubs, hotels and B&Bs by residents and visitors.

Making and maintaining resident's vehicles and vehicles used by visitors when in the Park, all other shopping consumed by residents and visitors.

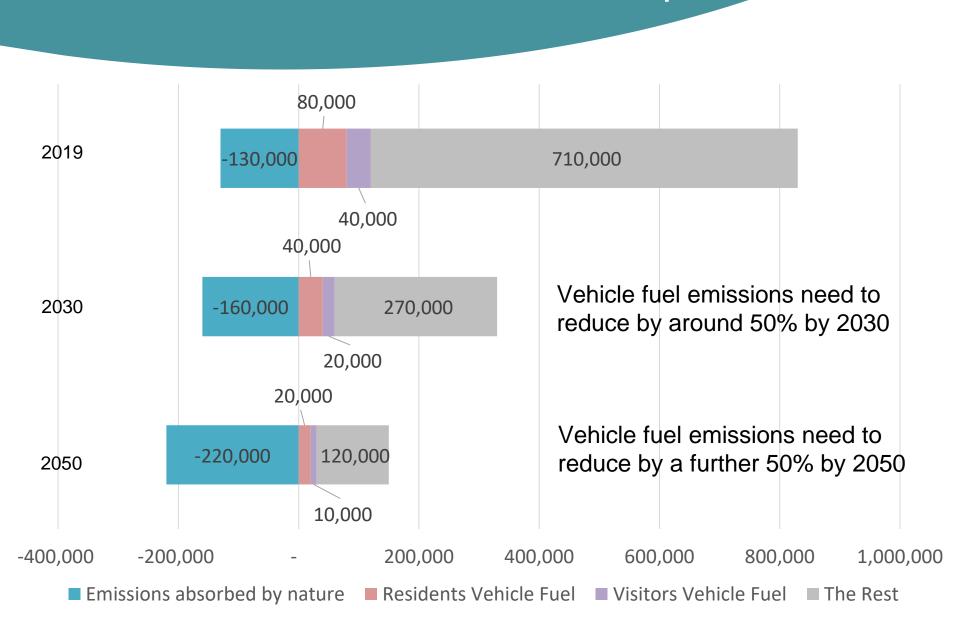
Manufacture, maintenance and **use of visitor's vehicles**, ferries, trains coaches and other transport used by visitors to get to and from the park.

Livestock, synthetic fertilisers, degrading soils, lost biomass.

Land Use greenhouse gases absorbed (CO₂)

Trees, peat, soils.

New Forest Estimated emissions reductions required



Net zero with nature Programme



Implement nature-based solutions

Trees, peat, soils and more

What, why, where and how?

Establish baseline data and evidence





Build a New Forest coalition

Partnerships - NFAF

Individual action, local impact

Activate communities





Increase sustainable travel

Walking, cycling, public transport