



Let **nature** help

Climate action needs nature.
Nature needs climate action.
Neither will succeed if we don't
prepare for a changing world.

**COP26
EDITION**



The time is now

To deal with the climate crisis, we must bring back nature at an ambitious scale. At COP26 we can make this happen.

The world is starting to take note of the threat of climate catastrophe. As global governments come together at COP26, the need to tackle the climate crisis has never been clearer.

Yet we cannot tackle the climate emergency without similar ambition to meet the nature crisis head on. Climate change is driving nature's decline, whilst the loss of wildlife and habitats leaves us ill-equipped to reduce emissions and adapt to change.

Net Zero needs nature. Nature needs Net Zero. Both need to be resilient to the climate of the future.

“Net Zero needs nature. Nature needs Net Zero. COP26 is our chance to tackle the climate and nature crises together”

Nature's incredible ability to trap carbon safely and provide other important benefits is proven — peatlands, woodlands, saltmarsh and other habitats are vital

carbon stores. But these natural carbon stores are in decline and at high risk of degradation from the extreme climatic conditions that are already inevitable over the next 30 years.

If global Net Zero fails, nature alone cannot prevent the climate crisis worsening. We must protect at least 30% of land and sea for nature by 2030, but also cut emissions at source to keep these carbon stores intact.

The Wildlife Trusts are already stepping up to the challenge, but we need decision makers, communities, businesses and everyone else to join us.

The Intergovernmental Panel on Climate Change (IPCC) says decisions we take in the next ten years are crucial for avoiding total climate catastrophe. We must use COP26 to kickstart nature's recovery and make Nature-based Solutions a priority — whilst also ensuring we reach Net Zero as soon as possible.



Craig Bennett
Chief Executive, The Wildlife Trusts

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Cover: Image © Paula Fisher/Shutterstock; butterfly © Bob Coyle



Time to take the lead

The UK Government must take ambitious action to restore nature if it is serious about tackling the climate crisis.

We can't solve the climate crisis without restoring nature. As individuals we have a part to play in this, but the Government must lead the way by embedding climate action and nature's recovery across all national policies. This is the only way to achieve a Net Zero, climate-resilient UK where nature is thriving, by 2050.

Governments need to afford greater protection to the natural environment we already have, whilst also expanding the network of nature protections to give wildlife the space it needs for the future. By doing this, they can help nature thrive in the UK and enable nature to do its job as a carbon sink.

Here's how the UK Government can take the lead:

30BY30

By 2030 we need to have protected 30% of our land and seas for nature. We welcome the UK Government's commitment to doing this and its work galvanising other global leaders to do the

same through the Leaders Pledge for Nature.

The problem is, the UK Government claims 26% of land is already protected for nature — unfortunately the reality is closer to 3%. Many of the sites included in the Government's figure are in poor condition and are not specifically protected for nature. By underestimating the work that needs to be done, the UK risks missing this crucial 30by30 target.

PLANNING FOR NATURE

The planning system can't just be about building new homes, it must also help to address the nature crisis. As it considers reforming planning legislation, we want the UK Government to introduce a new designation specifically for nature's recovery — a Wildbelt. This would go beyond protecting the nature we have, to protecting the space that nature needs for the future.

Nature Recovery Networks must also be put at the heart of the planning system, with clear duty

to use Local Nature Recovery Strategies when making land use planning decisions.

LEGAL TARGETS

The UK Government has just amended its Environment Bill to include a landmark legally-binding target for nature's recovery. This is excellent progress which commits the Government to halting the decline of nature by 2030.

But we still have to ensure this target is translated into meaningful action on the ground. It must be supported by an additional £1 billion per annum investment in nature's recovery.

ADAPTATION PLANS

The UK's next set of plans for how the country will adapt to deal with the climate crisis are due in 2023. At COP26 we want to see the Government signalling that these will include the necessary actions that have to be in place if we are to begin to lower the risk climate change poses to the country's environment on land and at sea.

Net Zero delivery now!

The UK Government is currently not on track to achieve Net Zero emissions — yet the UK has to play its fair share in reaching global Net Zero.

Adaptation needs to be integrated into the strategy, embedding plans for scaling up Nature-based Solutions — like tree planting and peatland restoration — that are resilient.

There needs to be adequate Government incentives and financing for those who must make the changes necessary. High quality Nature-based Solutions should be developed within communities, there must be better incentives for homeowners, and sustainable transport options must become more accessible.

Governments also need to provide the regulation to enable market mechanisms to operate. These mechanisms in turn need to be well-regulated and robustly verified to ensure market players can act with confidence.

Carbon offsetting

The absence of regulation or a rulebook on carbon offsetting or removals has led to carbon offsets commonly failing to deliver genuinely additional benefits for climate, even on the compulsory market.

As a rule, offsets should be used as a last resort in achieving corporate Net Zero targets as recommended by the Science-based Targets Initiative and Climate Change Committee.

Where carbon offsets are used, stringent regulatory mechanisms need to demonstrably uphold this, and be transparent and verifiable to it.



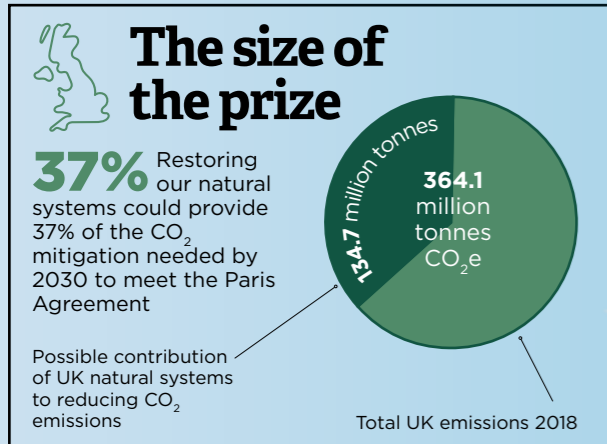
Scientists carry out fieldwork on peatland carbon capture at Moorhouse National Nature Reserve.

Rob Jordan/2020VISION

Nature-based Solutions

The UK has a target of Net Zero greenhouse gas emissions by 2050. Nature can make a massive contribution to achieving this, or an even more ambitious target – but only if we restore our damaged ecosystems. Here are the main areas that need attention.

Let nature help



BIOMASS CARBON

All animals and plants are carbon stores. When marine animals die, they generally sink and become incorporated into sediment, where their carbon might stay for thousands of years. Human activities release this carbon and impact populations of marine animals.

PEATLAND

The UK's peatland soils store around 3.2 billion tonnes of carbon, but are heavily degraded and release the equivalent of 23 million tonnes of CO₂ every year. Restoring them to prevent this emission is one of the most cost-effective Nature-based Solutions.

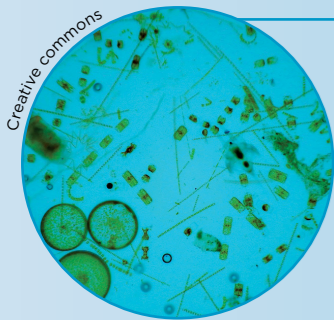


GRASSLAND

UK grasslands store 2 billion tonnes of carbon, but this is vulnerable to disturbance. Between 1990-2006, arable conversion of grasslands released 14 million tonnes of CO₂. We can restore species-rich grasslands to lock up carbon and support abundant wildlife.

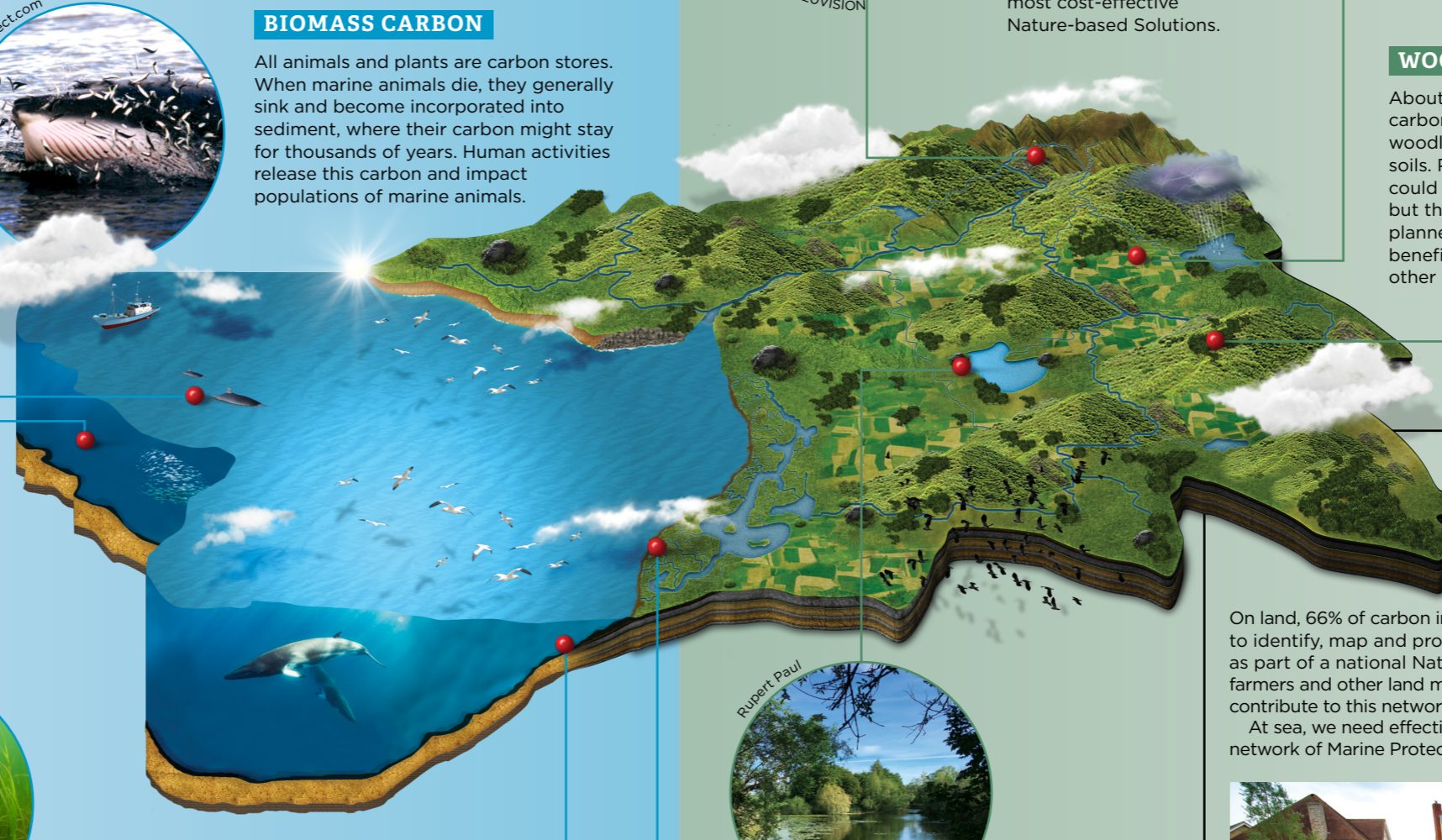
WOODLAND

About 1 billion tonnes of carbon are locked up in UK woodlands, mostly in the soils. Planting more woods could lock up more carbon, but this must be carefully planned to maximise benefits and avoid harming other habitats.



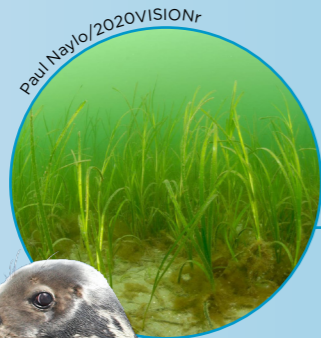
FOOD WEB CARBON

Phytoplankton are the basis of ocean food webs and absorb CO₂. Globally, 10 billion tonnes of carbon are transferred to seabed sediments when phytoplankton die or are eaten then excreted.



SEAGRASS

A hectare of seagrass may store two tonnes of CO₂ a year and hold it for centuries, while providing nursery habitat for young fish. But we have lost half our seagrass meadows since 1985. Reducing water pollution and replanting would bring them back to health.



SALTMARSH

A hectare of saltmarsh can capture two tonnes of carbon a year and lock it into sediments for centuries, but we are losing nearly 100 hectares of saltmarsh a year. Coastal realignment could restore much of it, and reduce flooding and erosion.



WETLAND

Wetlands can accumulate carbon for centuries, but in some areas of the UK we have lost over 90% of our wetland habitat. Restored wetlands provide rich habitat, clean water naturally and reduce flood risk downstream.

The crucial tool: a Nature Recovery Network

On land, 66% of carbon in nature-rich areas is outside protected sites. We need to identify, map and protect these ecosystems, and restore them locally as part of a national Nature Recovery Network. We also need to incentivise farmers and other land managers to improve their land for nature and contribute to this network.

At sea, we need effective marine planning, and an ecologically coherent network of Marine Protected Areas.



We need nature to be everywhere again



BLUE CARBON

Oceans absorb 20-35% of human-made CO₂ emissions every year. Carbon is incorporated into the tissues of plants and animals, and later into mud and sediments.



GREEN CARBON

Globally, plants have removed 25% of human-made CO₂ emissions. Soils contain more carbon than is stored in plants and the atmosphere combined.

Nature and Net Zero

Restoring nature locks up carbon, but these carbon stores will be at high risk if we fail to meet Net Zero.

Healthy ecosystems on land and at sea can absorb vast quantities of CO₂ from the atmosphere and lock it away as carbon. Achieving Net Zero requires making the most of this process.

But if we fail to meet Net Zero, these natural carbon stores face an increasing threat of irreversible loss. Even with ambitious global emissions reductions, they are under threat from the extreme weather events which are inevitable over the next 30 years.

We need a Net Zero strategy for nature that recognises this threat and is ready to adapt for the future.

PROTECTING PEAT

Peatlands are by far the UK's largest natural carbon sink, storing 3.2 billion tonnes of carbon. But due to intensive agricultural, drainage and burning our peatlands are in such a poor condition that they are currently emitting carbon.

We need to see:

- A target of 100% upland peat restoration before 2050
- An immediate ban on rotational burning
- An end to arable and horticultural farming on deep peat

- A ban on the use of peat in horticultural and compost products, including imports

SAVING OUR SEAS

Due to climate change the seas are losing oxygen and becoming more acidic. The IPCC's most recent report shows further change is locked in for millennia from sea level rise. The seabed, saltmarsh and seagrass all have important roles to play in sequestering carbon, but will be unable to do this if they are damaged and polluted by fishing and recreation.

We need to see:

- A complete ban on bottom-trawling
- All seagrass habitats to be given highly protected status
- Governments renew pledges to protect coastal habitats
- More investment in large managed realignment projects

AGRICULTURE

Current voluntary policies to reduce agricultural emissions have failed. Yet the Climate Change Committee says we need to see around a 40% drop in emissions from farming by 2050. With around 70% of land

farmed in the UK, shifts in how this land is managed can achieve transformational change for nature, climate and people.

We need to see:

- More details on how the Environmental Land Management (ELM) Scheme will incentivise farmers to manage their land for nature
- Promoting diet change away from meat to help to free up land to focus on carbon sequestration and biodiversity

TREE COVER

By 2050 we need woodland cover in the UK to increase from 13% to 18% as a sensible contribution to Net Zero. Planting rates still remain low at present and land managers need more details on what "right tree, right place" means.

We need to see:

- Natural regeneration encouraged instead of planting wherever possible
- Guidance for land managers to require that a diversity of species are planted in every location in order to ensure the best chance of survival in unpredictable and changing conditions

Adapt, adapt, adapt

The UK Government treats climate mitigation and climate adaptation separately. But adaptation is absolutely fundamental to achieving Net Zero. The latest independent UK Climate Change Risk Assessment spelt out over 20 different risks to achieving Net Zero from climate change.

Risks to natural carbon stores from changing climatic conditions, including extreme heat, fire, and drought, were a top area for immediate action in the report.

Adaptation cannot wait until the next set of strategies are due

from 2023. It must be integrated across Government policies now, particularly on how the resilience of natural carbon stores will be improved.

This includes reducing the risk of wildfire, guidance on managing land during drought and hot weather, and ensuring that targets for boosting natural carbon stores take into account some inevitable loss driven by climate change itself.

Government departments should be required to demonstrate progress on adaptation at the same time as progress on mitigation.



Andy Bartlett

We can deliver

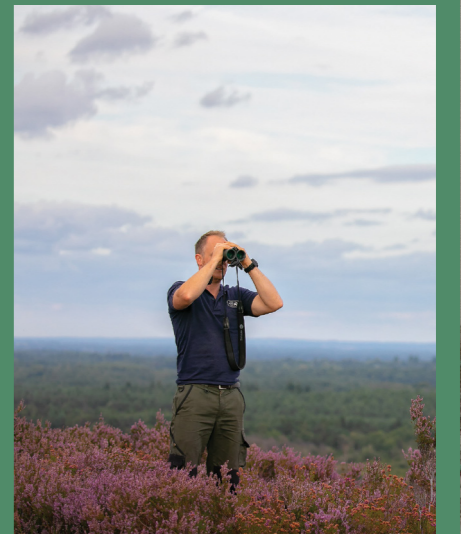
For more than a century, The Wildlife Trusts have been saving, protecting, and restoring wild places and bringing people closer to nature.

We are involved in projects to restore and connect habitats across the country as part of a Nature Recovery Network, from re-wetting peatland to creating saltmarsh and planting seagrass.

The Wildlife Trusts are already restoring more than 45,000 hectares of peatland in England — more than the UK Government has pledged to restore by 2025.

We also advise thousands of farmers and landowners on how best to care for their land so that it sustains wildlife.

We have the know-how and expertise to work in partnership. With investment and support from governments, businesses and local communities, we can create real change for nature's recovery, so that Nature-based Solutions can play a massive role in achieving Net Zero emissions.



Jon Hawkins

Our ground-up structure means we are the local experts

Our work on more than 100 Living Landscape projects across the UK shows that restoring nature is sustainable and feasible

Four flagship projects

The Wildlife Trusts are taking action to bring nature back across the UK. Here's a flavour.

Scottish Beavers, Argyll



Sarah Robinson
Director of Conservation,
Scottish Wildlife Trust

"The Scottish Wildlife Trust has long championed their reintroduction and protection. In May 2009, they were one of the lead partners of the Scottish Beaver Trial, a pioneering five-year project that saw the licensed release of 16 beavers into Knapdale Forest, Argyll.

"This was one of the largest field trials of its kind in Europe. Extensive independent scientific monitoring of their impact on the natural environment paved the way for the Scottish Government to recognise beavers as a native, protected species in Scotland in 2019. Further reinforcement of the Knapdale beavers has been carried out to boost their numbers and increase genetic diversity.

"Other Wildlife Trusts around the UK are involved in beaver reintroductions, all providing insight into the benefits beavers can bring to people and wildlife."

"Beaver dams boost wildlife, slow the flow of water, reduce flood risk and keep streams and rivers running during droughts"

Climate change will lead to increases in both periods of flooding and drought. Beavers help to hold water back in a catchment and store it, improving landscape resilience to fluctuations in rainfall.

"Beavers are industrious ecosystem engineers. Their dams create wetland habitats that support a wide range of other species, and they slow the flow of water, reducing flood risk downstream and keeping streams and rivers running during droughts.

A beaver at Knapdale, Argyll. The project has demonstrated how these ecosystem engineers benefit people and wildlife



bluesky-world.com

The Great Fen Project will be 18 square miles of varied wetland habitats

The Great Fen Project, Cambridgeshire



Lorna Parker
Restoration Manager, BCN Wildlife Trust

Intensively farmed fen could lose all of its remaining peat soil in 30 years due to climate change, so restoration is critical to maintain and expand carbon stores.

"Bedfordshire, Cambridgeshire and Northamptonshire Wildlife Trust is leading the Great Fen project to create landscape-scale change and deliver one of the largest restoration projects of its kind in Europe.

"99% of wild fen in Eastern England has been historically drained to create farmland, leading to the ongoing release of carbon as drying peaty soils oxidise or simply blow away. At the Great Fen near

Peterborough, we at the Wildlife Trust are working in partnership with the Environment Agency, Natural England, local authorities and land managers to rewet farmland and restore 3700 hectares of fen.

"This will reconnect Holme Fen and Woodwalton Fen National Nature Reserves, create a huge mosaic of wetland habitats for the benefit of people and wildlife,

"This huge wetland mosaic will save around 325,000 tonnes of CO₂ from being released each year through peat loss"

reduce the risk of flooding on nearby farmland, and save an estimated 325,000 tonnes of CO₂ from being released each year through peat loss.

"Our Water Works project, part of the Great Fen Project, also aims to improve farming practises in the Cambridgeshire fens. We are working with partners and local farmers to trial innovative wetland farming techniques at the Great Fen that can help rewet the fen and halt and reverse the release of carbon.

"Water Works could be truly transformative for future generations farming in the fens, creating new sources of income for farmers, protecting food supplies and the natural environment, and combating climate change."



Terry Whitaker/2020VISION

The saltmarsh at Abbots Hall farm has been accumulating carbon for almost 20 years

The Yorkshire Peat Partnership



Tim Thom
Peat Programme
Manager,
Yorkshire
Wildlife Trust

It is essential that all upland peat is restored to a re-wetted condition to enable it to store carbon. Without it, hotter, drier conditions could lead two-thirds of upland peat being lost by 2050, putting Net Zero out of reach in turn.

“Yorkshire has 23% of all the UK’s blanket bog, a type of peatland, and Yorkshire’s peatland holds an estimated 38 million tonnes of carbon in total. However much of it is in decline — channels were historically cut to drain the peatland, and ongoing activities such as grazing and burning can continue to cause damage.

Blocking ditches and eroded gullies helps rewet and protect peatland

“Since 2009, Yorkshire Wildlife Trust has been leading the Yorkshire Peat Partnership to restore the blanket bog on a massive scale by surveying the habitat and working to block drainage ditches, replant bare areas with mosses and other plants, and reduce erosion.

“So far, we have completed restoration works on over 30,000

“So far the partnership has completed restoration of over 30,000 hectares of blanket bog, out of a total 86,000”

hectares of a total 86,000 hectares of Yorkshire’s blanket bog.

“This vital work can reverse the loss of peat and helps keep carbon locked up. It also helps regulate water flow and reduces the risk of flooding, increasing the resilience of communities downstream.

“Many other Wildlife Trusts have similar projects to revive UK peatlands, preserving this vital resource into the future.

“As well as natural flood management and carbon storage, healthy peatlands are amazing habitats for extraordinary wildlife, including reptiles and carnivorous plants. They’re beautiful places to visit too. But despite the progress we’re making, restoring peatlands takes time and needs a long-term outlook with corresponding long-term policies and funding.”

Abbots Hall Farm, Essex



Andrew Impey
Chief Executive,
Essex Wildlife
Trust

Sea levels could rise by up to a metre by 2100; natural buffers like saltmarsh can defend against increased coastal flooding.

“Rising sea levels and increasingly frequent storms threaten both manmade defences and important habitats on our coastlines. In Essex, up to 60% of coastal marshes have been eroded in the last 20 years.

“At Abbots Hall Farm, Essex Wildlife Trust has worked with the Environment Agency to realign the coast and create thriving saltmarsh habitat.

“When the Wildlife Trust purchased Abbots Hall Farm in 1999, part of the sea wall was in need of repair. Instead of undertaking the costly work to maintain it, the Wildlife Trust and the Environment Agency explored coastal defence methods which took account of rising sea levels.

“After two years of studies, the old seawall was breached in 2002 to allow tides to wash onto disused farmland”

“After two years of studies, monitoring, and consulting the local community, new defences were installed further inland and in 2002 the old seawall was breached to allow tides to wash onto disused farmland. The managed retreat is transforming 50 hectares of previously arable land into saltmarsh abundant with wildlife, particularly migrating birds. The new habitat is also teeming with young bass, herring and 14 other types of fish feeding in the creeks within the marshes.

“This ground-breaking project shows what can be achieved when coastal realignment is carried out in suitable places and static seawalls are replaced with dynamic, carbon-absorbing tidal habitat, helping our wildlife and coastal communities stay resilient in the face of change.”



Matthew Roberts

A better way to manage our land

Our natural habitats can become long-term carbon stores if they are allowed to function well. This will take careful planning, regulation, incentives and good land management — as well as ensuring we reduce emissions so damage isn't locked in for the future.

HEDGEROWS

The UK's hedgerows store carbon above and below ground, and connect habitats across the landscape. We need 40% more hedgerows to help reach Net Zero by 2050.

PEATLANDS

These vast stores of carbon need positive long-term management. Restored peatlands can capture more carbon, reduce flooding, clean our water, and allow wildlife to thrive.

COAST

Our coasts must be managed to cope with climate change. Coastal realignment can create carbon absorbing, species-rich habitats and natural defences against sea level rise and storm surges.

GRASSLANDS

Species-rich grasslands are huge carbon stores and when managed carefully, e.g. through herb-rich leys and sensitive grazing, they lock in carbon and boost biodiversity.

WETLANDS

Healthy wetlands store carbon, support wildlife and hold back flood water. Less drainage and over-abstraction, the return of beavers and naturalising rivers will lock up more carbon.

WOODLANDS

We need to protect our existing woodland and help it to expand and join up. Semi-natural native woods store carbon, reduce flood risk, and improve our wellbeing when we visit them.

SOILS

Soil organic matter stores more carbon than any other land system, but is threatened by intensive farming. Crop rotation, cover crops and less ploughing can restore this fundamental asset.

A better way to manage our sea

As global temperatures rise, changing water conditions will threaten the natural carbon stores that call the sea home. We must reach Net Zero as soon as possible to protect these ecosystems and strengthen marine planning now to reduce harm caused by damaging marine activities.

LOCAL TOURISM

Caring for and protecting nature can boost the local economy through increased eco-tourism, and improve people's access to nature, making them happier and healthier.

SEAWEED AQUACULTURE

Sustainable seaweed farms can store carbon and reduce the impacts of ocean acidification. They can also provide habitat and nursery grounds for young fish and crustaceans.

DESIGNATED AREAS

Well managed and monitored Marine Protected Areas are vital for nature's recovery at sea, and they safeguard important carbon storing habitats like seagrass meadows.

REAL PROTECTION

To give marine wildlife the best opportunity to recover and store carbon, we need to deliver a suite of Highly Protected Marine Areas with the strictest possible protections.

NO-TRAWL POWER CABLES

Laying cables for offshore windfarms can damage habitats and sediments. Laying should be unobtrusive and, to prevent damage, trawling near cables should be prohibited.

RETURN OF OCEAN GIANTS

Bigger populations of species like whales and basking sharks would store more carbon. We need to protect them from pollution, industrial fishing and other harmful human activities.

BUBBLE CURTAINS

Construction at sea can cause noise pollution, harming species like harbour porpoises. Less impactful methods and noise dampening measures like bubble curtains are essential.

Nature needs our help to **recover...**



At COP26, we can make it happen

The world is coming together in Glasgow to find solutions to the climate crisis. With temperatures rising, extreme weather events becoming increasingly common, and wildlife in decline, we know we have to act now if we want to avoid climate catastrophe.

The UK Presidency needs to lead the way. The UK must ensure that all parties reach agreement on scaling up ambitions to keep 1.5C within reach. We have to push for nature to be integrated into more ambitious national pledges to reduce emissions and adapt to

climate change, to ensure we meet the aims of the Paris Agreement. It's crucial that we show leadership at home too, by taking action to protect nature and reach Net Zero, even when it is challenging.

At COP26, we ask the UK Presidency to:

- Keep 1.5C within reach to protect the natural environment from irreversible changes
- Show leadership by demonstrating the right approach at home and using COP26 to encourage greater innovation and ambition
- Aim for investment in high-quality Nature-based Solutions, developed with and for local communities

The climate and ecological emergency affects us all. You can help The Wildlife Trusts make a real and lasting difference by supporting us to lock up more carbon and make nature's recovery a reality.

Find out more about Nature-based Solutions

naturesolutions@wildlifetrusts.org

