



SCCS

Annual Conference

2023

The Carbon Landscape:

Methods & Metrics of CO₂ Storage

Using nature to remove atmospheric CO₂

Tom Newell,
The Future Forest Company

#SCCSconference



An aerial photograph of a mountainous landscape. The top of the image shows a rocky, grassy mountain peak under a blue sky with scattered white clouds. Below the peak, a dense forest of green trees covers the slopes. In the lower right corner, a small village with white buildings and red roofs is visible. A semi-transparent green rectangular box is overlaid on the middle of the image, containing white text.

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the future forest company
Creating the ancient landscapes of the future

Tom Newell, General Manager

A photograph of a forest fire. Bright orange and yellow flames are visible at the base of several dark tree trunks. The background is filled with a thick layer of grey smoke, partially obscuring more trees. The overall scene is dramatic and highlights the impact of climate change.

**“Climate change is the defining issue
of our time, and we are at a defining
moment”**

(The United Nations)



**Nature provides a huge part of the solution,
but needs a significant helping hand.**

**Our mission is to have planted enough trees
by 2030 which will mature to remove 1
million tonnes of carbon dioxide from the
atmosphere .**

Nature-based solutions can provide **37% of the mitigation needed to meet the
targets of the Paris Agreement by 2030.**



The UK used to be covered in a rich blanket of forests.



Now just 2% of that ancient woodland survives, and much of the UK landscape looks like this. A mixture of agricultural land, moorland, and commercial forestry, which often offer little in terms of climate or ecological benefits.

As a result, the UK only has half of its natural biodiversity left, placing it in the bottom 10% of all countries globally.

We are on a mission to change this :



We plant principally native broadleaf trees to capture carbon and create thriving habitats for wildlife.

We acquire and manage both our own and third party sites, reforesting and restoring carbon rich habitats including peatlands and wetlands.

We receive funding from UK government woodland creation grant schemes, peatland restoration grants and corporate sponsorships.

We generate very high integrity carbon credits (PIUs) that we sell to our business partners.



UK Government has set a target for at least 30,000 hectares of trees to be planted a year, to contribute to its net-zero goals.

Our reforestation principles :



We take an holistic approach to reforestation by considering the wider environmental benefits, not only removing carbon from the atmosphere but supporting rural communities, healing the ecosystem and restoring biodiversity.



Our nature-based solutions :



Reforestation

We are planting forests that sequester carbon and support ecosystem regeneration and biodiversity.

So far we have planted almost a million new trees in the UK. These trees are monitored by our local teams to ensure they establish and thrive for many decades ahead.

Carbon Offsetting: Our forests are registered with The Woodland Carbon Code, so partners have the opportunity to secure a future supply of carbon offsets, to help meet their net-zero goals.



Peatland Restoration

We are restoring degraded peatland across the UK, locking in carbon for future generations.

Peatlands are a vast natural carbon store. Degraded peatlands are releasing carbon back out into the atmosphere 20 times faster than it is being sequestered.

Carbon Avoidance: Our peatland restoration projects are registered with The Peatland Code, the UK's carbon registry for peatland. Peatland restoration is carbon avoidance rather than sequestration..



Biodiversity Enhancement

We are creating new habitats for wildlife, restoring wetlands and sowing wildflower meadows.

These array of habitats provide vital reserves for birds, insects and mammals, as well acting as wildlife corridors allowing dispersal between isolated habitats.

Biodiversity units: Partners can sponsor biodiversity units (by the square metre) to align with their ESG objectives, and will receive detailed reporting about the habitats they are helping to restore.

Our rapid progress :



**1 million trees
planted to date**

**250,000 tonnes of
carbon to be captured
from current sites**

**20 employees, 75% in
Scotland**

**Award winning large
scale woodland
schemes**



**Nature-based solutions
can provide **37% of the
mitigation** needed to meet
the targets of the Paris
Agreement by 2030.**

**Over 1.6 million m2 of
habitat assessed**

**Peatland restoration
completed on 3 sites
19,000 tonnes of carbon
release avoidance**

**3,000 hectares of
land under direct
management**

**Almost 2 million trees
to be planted by 2025**

Case Study: Dumyat, Stirlingshire



**340k trees planted
across 200ha**

**Less than 24 months
from site acquisition to
completion of planting**

**80,000 tonnes of
future carbon
capture**

**Reappearance of
Northern Brown
Argus butterfly**



Case Study: Dumyat, Stirlingshire



'Extinct' butterfly sees startling resurgence as numbers climb after 100-year absence

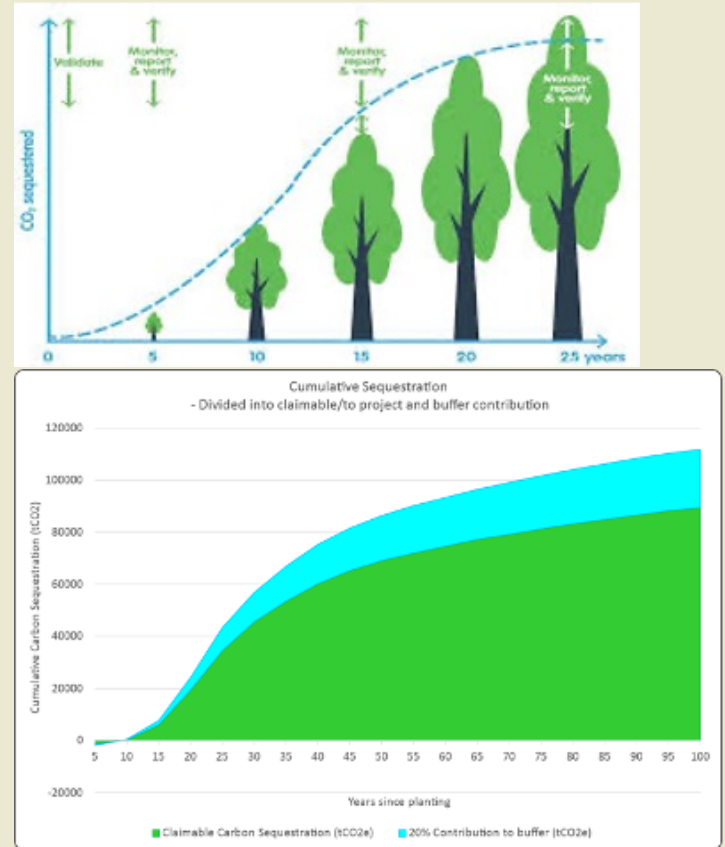


Butterfly species returns to Ochil Hills after 100-year absence

Woodland carbon



- ‘The Woodland Carbon Code (WCC) is the quality assurance standard for woodland creation projects in the UK, and generates high integrity, independently verified carbon units.’
- All new woodland creation projects require a model-based approach to estimate carbon storage potential before it has become established
- Carbon mass of a woodland is estimated based on many factors associated with tree species characteristics, woodland design and management interventions (e.g. thinning)
- Current WCC model estimates includes buffers to account for natural error/variability
- WCC project duration can be up to 100 years



Carbon unit sales:



70,000 tonnes of carbon PIUs currently available

MONTGREENAN

Lying in East Ayrshire, Montgreenan is ideal for creating one of our more threatened and biodiverse woodland types: wet woodland.



Trees planted: 33,000
PIUs available: 3,140 tonnes
IHS Registry ID:
104000000028193

SWARTHGHYLL

A 345.5ha estate in the heart of the Yorkshire Dales, we have restored a vast area of peatland during Winter 2022.



Peatland restored: 48ha
PIUs available: 9,200 tonnes
IHS market registry ID:
104000000028270

BRISBANE MAINS

A diverse mosaic of young and mature woodland, alongside species-rich grasslands and peatland.



Trees planted: 293,980
PIUs available: 55,338 tonnes
IHS market registry ID:
104000000027072

Summary:



Nature based solutions focussed around appropriate woodland creation are key in meeting and sustaining carbon mitigation targets

The Future Forest Company are on target to achieve our ambitious goal of 1M tonnes of future carbon capture by 2030 through woodland creation

Woodland Carbon, enables biodiversity recovery, community usage, water quality improvements, soil retention

A lush green forest stream flowing over mossy rocks. The scene is filled with vibrant green ferns, moss, and trees, creating a serene and natural atmosphere. The stream is the central focus, winding through the forest floor.

Thankyou

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Thank you

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