Pennine PeatLIFE





Area of Outstanding Natural Beauty

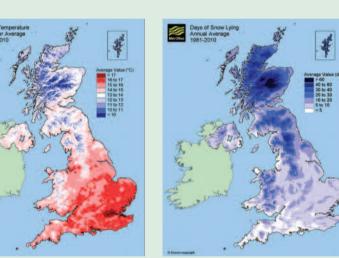
Pennine PeatLIFE is a four-year peatland restoration project run in partnership by the North Pennines Area of Outstanding Natural Beauty (AONB) Partnership, Yorkshire Wildlife Trust and the Forest of Bowland AONB Partnership. It aims to restore damaged peatlands across three protected landscapes in the North of England.

Pennine PeatLIFE covers the North Pennines AONB, the Yorkshire Dales National Park and the Forest of Bowland AONB. Funded by the EU LIFE programme with match funding from the Environment Agency, Yorkshire Water, Northumbrian Water Limited and United Utilities, this

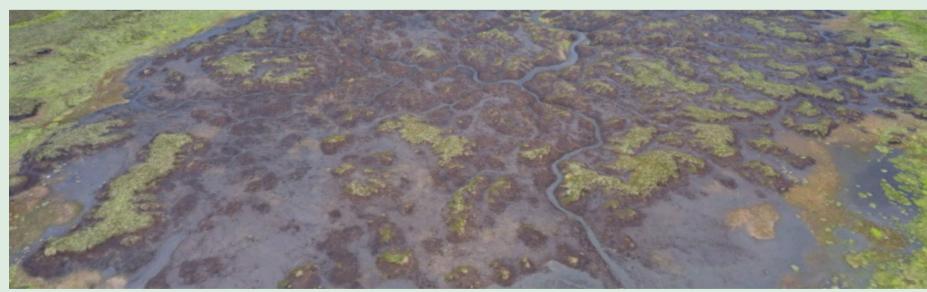


partnership is working at a landscape scale to restore 1,353ha of bare and degraded peat over the next four years (2017-2021).

The peat bogs along this northern chain are quite different from other upland bogs in the north of England as they still have a good level of Sphagnum moss. They are higher in altitude, have a higher rainfall, lower temperatures and have shortened growing seasons due to extended



periods of snow in the winter and reduced sunshine hours during the summer. With a harsher climate comes different challenges and different restoration methods are needed.



Project aims

Pennine PeatLIFE will determine the most cost-effective payment for ecosystem services restoration approach by:

- 1. Demonstrating financially viable region-specific and sustainable Sphagnum-based restoration techniques for re-activating peatforming blanket bog in the wetter, colder and higher altitude eroding bog systems of northern England.
- 2. Demonstrating, through 'Concept to Contract' trials, the UK Peatland Code as a viable payment for ecosystem services in upland peatlands.
- 3. Demonstrating new approaches using unmanned aerial vehicles (UAV) to assess vegetation change as a proxy for monitoring the change in ecosystem services benefits of restored blanket bog. Data will also be used as a validation tool for the UK Peatland Code.
- 4. Disseminating the demonstration activities to policy makers, landowners and managers, government agencies, non-governmental organisations and other key stakeholders in the UK and across the EU.



UAVs are used to assess vegetation change



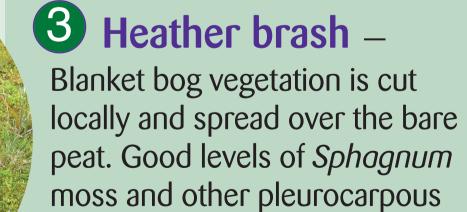
Restoration methods

1 Hydrology — Stabilise the water table and prevent further erosion caused by water. Stone dams will be used along with coir rolls/heather bales for smaller channels.





2 Slopes — Steep slopes will be re-profiled to speed up colonisation from the base.



mosses are present, along with

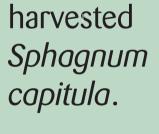
heather Colluna vulgaris, cottongrasses Eriophorum angustifolium/ vaginatum and other dwarf shrubs.

Kickstarting growth –

Lime (1tn per ha) is added along with phosphate based fertiliser (19.5kg per ha) and moorland seed which includes Descampsai flexuosa, Festuca ovina and Eriophorum angustifolium/vaginatum.

5) Sphagnum moss –

Sphagnum is key to restoration and revegetation. This includes fragments from the brash, whole Sphagnum clumps or





Airlifting stone into place





