Sphagnum Farming & Carbon Farming

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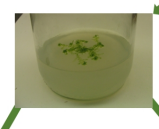
BeadaMoss® - Sphagnum micropropagation

To sustainably supply large scale projects

Sphagnum micropropagation:

- Large scale supply
- No damage to donor sites
- Quality seedstock
- Selection of planting material
- 15+ years of experience - BeadaMoss®
- Grown in sustainable facilities

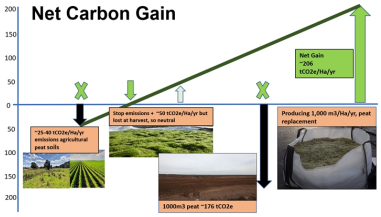


Banning Peat Use & the Demand for Sphagnum

Peat harvesting for horticulture is not viable in alignment with climate goals

Farming Sphagnum for growing media maintains carbon stocks by avoiding peat extraction while retaining the use of productive land

In the UK, DEFRAs ban on peat use for amateur horticulture will be effective from 2024, and professional use later - to meet this demand with Sphagnum growing media = ~6000 ha of Sphagnum farming



Sphagnum Growing Media Constituent

An effective and renewable peat alternative

Sphagnum retains the beneficial properties of peat:

- Good Water retention
- Good Air holding (air filled porosity)
- Good Ion exchange properties

Trials undertaken by 4 leading UK nurseries demonstrated excellent growth with Sphagnum BeadaGro® across 30 genera

Sphagnum Processing into BeadaGro®

Machinery development for at-scale handling

Scaling Up Sphagnum Farming Trials

Currently undertaking farm-scale trials to demonstrate feasibility and economics to meet the demand for peat-free growing media, especially for commercial horticulture

Carbon Farming - how is this different?

Carbon Farming grows a permanent non-harvested crop of Sphagnum moss. This method actively sequesters carbon as well as protecting the carbon stock in peat soils.

This contrasts with Sphagnum Farming which produces a harvested crop.

Carbon Farming could sequester ~26 t CO2e /ha/year with appropriate management. The carbon farmed could be monetised through carbon accreditation schemes.

Winmarleigh Carbon Farm

Care-Peat Project

Interreg North-West Europe Care-Peat

Measurements over a 6-month period indicated a reduction in carbon emissions of 20.1 tCO2 /ha /yr when compared to surrounding pasture

We have been pleased to be involved with this project, supplying 150,000 BeadaHumok® for the 4-hectare site, along with advice and stakeholder engagement support

(Data IUCN Peatland Conference 2021- Manchester Metropolitan University and Lancashire Wildlife Trust)

With thanks to research partners:

Lancashire, Manchester & N Merseyside Wildlife Trusts

Manchester Metropolitan University

University of East London

Melcourt Industries Limited Proven • Safe • Sustainable

Natural England

NTU Nottingham Trent University

UKRI Innovate UK

BBSRC