Mark McCorry, Doreen King & Chris Cullen, Sept 2022

The Peatland Climate Action Scheme

IUCN – Conference 2022, Aberystwyth



THE IRISH TIMES

Mon, Apr 19, 2021



Bord na Móna ends all peat harvesting

Company suspended the activity last year following a 2019 High Court decision

Ø Fri, Jan 15, 2021, 09:46 Updated: Fri, Jan 15, 2021, 09:48

Colin Gleeson



Peatland Climate Action Scheme

Why?





Peatland Climate Action Scheme – Why?

- 109 Million Euro investment
- Supported by the Government's Climate Action Fund
- Supports Bord na Mona/midlands Just Transition 350 jobs
- Climate Action benefits (carbon storage residual peat, avoided emissions via new trajectory)
- Other ecosystem service benefits biodiversity, water, landscape, communities

Objective – re-wetting 33,000 ha, optimising suitable hydrology for climate action benefits

Maximising the wet residual peat footprint











Rialtas no hÉireann Government of Ireland





CLIMATE ACTION PLAN 2019 To Tackle Climate Breakdown



Rialtas na hÉireann Government of Ireland





NATIONAL RAISED BOG SPECIAL AREAS **OF CONSERVATION MANAGEMENT PLAN** 2017-2022



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PCAS – impact on carbon storage and avoided emissions benefit

- would lock 28 million T of carbon in the ground.
- PCAS 33,000 ha
- Would lock 70 million T of carbon in the ground (based on estimate of residual peat)

- footprint (33,000 ha)
- Avoidance of emissions by re-wetting and reducing the emissions factors

NPWS recently estimated that restoring about 6000 ha of raised bog (intact and cutover)

Analysis suggests a reduction of 3.3 MT carbon CO2eq over 30 year period across the PCAS



Targets – deep peat cutaway



Creation of soggy conditions, water levels at peat surface, re-wetting residual deep peat, accelerating Sphagnum-rich vegetation, best outcome for climate action – GHG sink





Targets – wetland cutaway



Wetland cutaway – creation of soggy conditions, emergent vegetation, minimising deeper water where possible, minimising dry Birch woodland – creation of fens and Reedbeds (best outcome for climate action – reduced carbon source....)





Edera Bog

Different environmental conditions

Different rehab measures

Different outcomes & habitats



Development of Bord na Móna production bog and cutaway





Heterogenous environment Different starting conditions, Different rehab approaches



Enhanced cutaway rehab – modifying topography with bunding and re-profiling





Edera Bog

- Right of ways
- Archaeology constraints
- Hydrological constraints

























PCAS Monitoring

Monitoring includes

- Delivery of measures (Engineering surveys, aerial photography, LIDAR)
- Vegetation (Habitat mapping, permanent quadrats and indicator species)
- Bog condition (Rapid monitoring stops)
- Biodiversity (Pollinators, wintering birds, breeding birds)
- Hydrology (1363 piezometers in 51 bogs)
- Water quality (Monthly monitoring ongoing on 200 surface water outlets pH, Suspended Solids, Total Solids, Total Phosphorus, Total Ammonia, Colour & COD)
- Water flows (Flumes and water flow measurement)
- Carbon fluxes (eddie co-variance and chambers)

























PCAS- developing sites with multiple benefits - biodiversity



Bord na Móna



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1D2O8669 Photo: Peter Barrow Tel: 087-2559638, 27th November 2014

Mountlucas Windfarm

developing sites with multiple landuses



- For more information:
- www.bnmpcas.ie
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Thank-you

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