Riga, September 5th 2024

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Reclamation experience in Germany Challanges and opportunities

Bernd Hofer

Hofer & Pautz GbR



International Peatland Society - Commission Environment Deutsche Gesellschaft für Moor- und Torfkunde NABU Klimafond

Riga, September 5th 2024



Development of peat extraction area in Germany

1994	1997	2011	2018	2024
26 000 ha	21 513 ha	11 500 ha	9 000 ha	5 000 ha
Moorschutz- programm 1994	Umweltmonitoring Nds 1997	IVG 2012	IVG 2020	IVG 2020



Development of after-use in Germany

- Until the 1980s, the after-use following peat extraction was largely plowing for intensive agricultural use.
- Forestry was only permitted in exceptional cases as trial areas.
- When the moor protection program came into force, the after-use was oriented towards rewetting and moor restoration.
- Agricultural use was only licensed as extensive wet grassland use on peat.



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Niedersächsisches

Landesamt für Bodenforschung

Geofakten 14

Boden

Praktische Hinweise zur optimalen Wiedervernässung von Torfabbauflächen

1. - 2. Jahr

Blankenburg, J.¹⁾

emässen (venetationsfrei

1. Volistandio

nternational Peatland Society







Abb. 347-02: Anlage der Sandmischkultur mit Raupenfahrzeugen (DTK 25 Blatt 3309 Meppen), Foto: W. SCHÄFER 1986



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EGGELSMANN 1981)

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Guidelines for action for the restoration 2022

- 1. Introduction
- 2. Hydrological core processes of raised bogs
- 3. Assessment framework for the success of rewetting measures
- 4. Technical measures
- 5. Restoration of industrial peat extraction sites
- 6. Restoration of agriculturally used peatlands
- 7. Restoration of forest bogs with inclusion of the catchment area
- 8. Restoration of unused near-natural and degraded areas
- 9. Permanent maintenance measures
- **10.** Active reintroduction of the typical raised bog vegetation



Handlungsempfehlungen zur Renaturierung von Hochmooren in Niedersachsen



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Assessment framework for the success of rewetting measures

		 		Residual peat layer (covering the whole area)	
Factors of water retention	Minimum	 Maximum	Points	< 100 cm Black peat or other peat	> 100 cm Black peat H7-H10
Soil type/grain size of the mineral subsoil	Gravel sand	 Clay	0 - 20		90
Groundwater level in the mineral subsoil in summer	deep (under peat base)	 towards raised bog base	0 - 10		
Stagnant layer below the peat base	not existing or disturbed	 vorhanden intakt	0 - 20		
Quality of the remaining peat layer	Fens peat Friable peat White peat	 Black peat H7 – H10	0 - 20		
Thickness of the remaining peat layer covering the entire area	< 40 cm	 > 80 cm	0 - 20		
Climatic water balance in the summer season	Extremely high to high deficit	 High to extremely high surplus	- 25 bis 25		
			Sum		
S ociety					

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👔 Christian Meyer

+ Folgen

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Restoration of agriculturally used peatlands

- Removal of agricultural topsoil
- Construction of the dams from the uppermost horizon
- Use of the remaining removal in the growing media industry
- This conserves resources of renewable raw materials and peat imports.

NABU-Klimafonds sichert 3.200 Hektar Moorfläche

Publiziert am 26. August 2024 von wuzonline

NABU und REWE ziehen erste Erfolgsbilanz / Bis Ende des Jahres 12 Millionen Euro in die Renaturierungsprojekte investiert Um die deutschen Klimaziele zu erreichen, gilt es, degradierte landwirtschaftlich genutzte Moorböden wiederzuvernässen. Doch die Wiederherstellung der Moore kommt in Deutschland derzeit nur langsam voran. Deshalb hat der NABU gemeinsam mit seinem Kooperationspartner REWE bereits im Jahr 2022 den NABU-Klimafonds gegründet. Mit Investitionen von mindestens 25 Millionen Euro werden naturbasierte Klimaschutzprojekte vorangebracht.



Active reintroduction of the typical raised bog vegetation

- Very promising experiences and measured values from the OptiMoor project (2017-2021)
- Establishment of peat-accumulating raised bog vegetation after 2 years
- Use of the remaining removal in the growing media industry
- This conserves resources of renewable raw materials and peat imports.







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Danke schön!



