



Raben Climate-optimised forest management Initial certification

Project: Raben Climate-optimised forest management

Project ID: DE00204

Region: Central north-east German old moraine land

Crediting period: 30 years (2024 - 2054)

Description:

The project "F3 Climate-optimised forest management" pursues the goal of maintaining and expanding the carbon store in the forest through climate-adapted forest management. A climate-adapted mixed forest is being developed on an area in Brandenburg, which contributes to CO₂ sequestration and at the same time strengthens the biodiversity and resilience of the ecosystem.

Date: 02 July 2025

Summary of the project

This document documents the verified climate impact of the certification **Initial-Certification_05/2025** with the following characteristics:

Project title	Raben climate-optimised forest management		
Project manager	F ³ Forest And Farming For Future GmbH Mittelstr. 7 12529 Schönefeld		
Contact person	Christian Stuhlmann, stuhlmann@waldkonzepte.de, 01607978785 stuhlmann@f3.eco 01607978785		
Certification name	Raben Climate-optimised forest management Initial certification		
Method	Method: 03 Climate-optimised forest management		
Certification type	Verification		
Standard (Version)	Forest Climate Standard (1.2)		
Number of areas	480		
Area	958.1 ha	Ø 2 ha	
Crediting period	30 years	01.08.2024 - 31.07.2054	
Reference period of the verification	08 /2024	05 / 2025	10 months
Verified additional GHG balance Climate performance [tCO ₂ e]	3332		
Marketable climate certificates Climate output minus the buffer contribution	2450		

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Reported utilisation quantity

Regular and calamity-related utilisations on the project area during the reference period are listed. Calamity-related utilisations are listed if they are documented as such.

Tree species group	Utilisation quantity		
	Regular [EFm]	Calamities [EFm]	Total [EFm]
	a	b	c= a+b
Oak	0	0	0
Beech	0	0	0
ALH ¹	0	0	0
ALN ²	0	0	0
Spruce	0	0	0
Fir	0	0	0
Douglas fir	0	0	0
Pine	5293	0	5293
Larch	0	0	0
total	5293	0	5293
Mean value / ha	5,53	0,00	5,53

¹ALH= Other hardwoods with high durability according to BWI

²ALN= Other hardwoods with low durability according to BWI

Net increment in the project

The net increment in the reference period is derived from the reported utilisation quantity and the increment specified in the initial certification.

Tree species group	Utilisation [EFm]	EFm -> VFm ³ [-]	Utilisation [VFm]	Growth ⁴ [VFm]	Net increment [VFm]
	c	d	e= c*d	f	g= f - e
oak	0	1,35	0	631	631
Beech	0	1,18	0	496	496
ALH	0	1,49	0	451	451
ALN	0	1,40	0	168	168
Spruce	0	1,25	0	33	33
Fir	0	1,25	0	125	125
Douglas fir	0	1,32	0	363	363
Pine	5293	1,31	6939	5713	-1226
Larch	0	1,43	0	156	156
total	5293		6939	8136	1197
Mean value / ha	5,53		7,24	8,49	1,25

³BWI (2022). Conversion factor Efm to Vfm by tree species group and tree age class. Thünen Institute, Fourth National Forest Inventory - Results Database, <https://bwi.info>. Auftragskürzel: 43Z1JI_L634of_2022_bi

⁴Average increment of the tree species group on the project area according to PDD, adjusted to the duration of the reference period.

GHG balance of the reference period

The GHG balance is based on the net increment in the project and reference scenario. The difference is defined as additional stock and corresponds to the additional tree biomass built up.

Tree species group	Net increment		Additional stock		
	Project scenario [VFm]	Reference scenario ⁽⁵⁾ [VFm]	Additional stock [VFm]	KE factor ⁶ [-]	GHG balance [tCO2e]
	g	h	i = g - h	j	k = i * j * ^(44/12)
oak	631	30	602	0,38	838
Beech	496	-70	566	0,38	789
ALH	451	106	345	0,45	570
ALN	168	66	101	0,30	111
Spruce	33	-46	79	0,32	93
Fir	125	67	58	0,26	56
Douglas fir	363	165	198	0,35	255
Pine	-1226	-1863	637	0,29	677
Larch	156	54	103	0,32	120
total	1197	-1492	2689		3508
Mean value / ha	1,25	-1,56	2,81		3,66

Addition stock	[tCO2e]	k	3508
Leakage (5%)	[tCO2e]	l	175
GHG balance	[tCO2e]	m = k - l	3332

⁵Net increment adjusted to the reference period according to PDD

⁶Wirth C, Schulze E-D, Schwalbe G, Tomczyk I, Weber G, Weller E, 2004. Dynamik der Kohlenstoffvorräte in den Wäldern Thüringens : Abschlussbericht zur 1. Phase des BMBF-Projektes "Modelluntersuchung zur Umsetzung des Kyoto-Protokolls". Thüringer Landesanstalt für Wald, Jagd und Fischerei, Mitteilungen der Thüringer Landesanstalt für Wald, Jagd und Fischerei, 305 p.

Issue of eva certificates

The issue of ex-post eva certificates corresponds to the verified GHG balance of the project. The avoidance shares result from the avoided stock depletion according to the reference scenario (PDD).

Certificates		Quantity	Share
Total quantity	m	3332	100 %
Avoidance	n	1431	42.9 %
Removal	$o = m - n$	1901	57.1 %
Buffer ⁷	$p = m *$	882	26.5 %
Operator	$q = m - p$	2450	73.5 %

New permanent stock

The permanent stock corresponds to the stock level that must be maintained by the project operator during the crediting period in order to guarantee the permanence of the eva certificates.

Permanent stock previous period [VFm/ha]	Additional stock current reference period [VFm/ha]	New permanent stock [VFm/ha]
r	i	$s = r + i$
354.56	2.81	357.36

⁷As defined in the PDD

TÜV Rheinland Energy & Environment GmbH confirms that the project, as described on the eva online platform and assessed during the site visit, fulfils all criteria of the WKS without any restrictions.

02.07.25



Date+ Signature
Lead auditor

02.07.25



Date+ Signature
Approver