General information				
Project code	RSCL004			
Project name	(RE)store Carbon 4			
Location	Sint Jansklooster			
Area		m2		N/A see measurements
Duration	>100	years	estimated permanence of removal and storage	storage is longer then 100 years, see IPPC 2019 chapter 3,7
Holding pool	5%		freed up when measurements confirm projection pathways	
Emmissions and decomposition	13.7%		Life cycle assessed emissions over >100 years	8,8% IPCC 2019 + calculation off CO2 emitted during transport, sawing, etc. during life cycle of project
Per m2				
Baseline	0	tCO2/m2	no change in landuse	
Reference capacity	14.82	tCO2/m2		
Storage potential	14.82	tCO2/m2	Projection -/- baseline	
Per project				
Projected storage	15	tCO2	storage potential per m² x area	
LCA +peat decomposition	2	tCO2	project related emissions	
Net storage potential	13	tCO2	project storage -/- emissions	
Removal credits issued				
Holding pool	1	credits		
Credits issued	12	credits		

Field Code	Field name	Size (m2)	Owner	Ownership contra	Notes	Distance (km)	
001	small field	1.00	Natuurmonumenten	yes	permits granted	1	

#	Field code	Field	Year	Date		ton biomassa	m3 biomassa	% moister	ton/m3	injected (ton CO2 eq)	Notes
001	001	small field	2024	10/25/2024	prognose/ha	17,444	29,074	75.0%	0.6	7,995.35	LET OP INDICATIE
003	001	small field	2024	12/05/2024	measured	27	45	77.2%	0.6	9.93	
005	001	small field	2024	12/06/2024	measured	*13*	*22*	77.2%	0.6	4.90	
006	001	small field	2024		executed					-	
007	001	small field	1899							-	
008	001	small field	1899							-	
009	001	small field	1899							-	
010	001	small field	1899							-	
011	001	small field	1899							-	
012	001	small field	1899							-	
										-	
										14.82	

Carbon Calculation for		RSCL004	
Surface	0.01	ha	
Capacity Reference TEC	14.82	TEC tCO2e/ha	
	2024		**2025**
Expected carbon storage	9.93	tCO2e	
Carbon storage	9.93	tCO2e	
Baseline	0	tCO2e	

Carbon Footprint assessment		
Category	**CF in kg CO2-eq.**	***Remarks***
Sawing incl handling	-	*mowed in season*
Processing	717	*on site*
Transport	2	*Forth*
Measurement	1	*Forth and back*
Travelling	3	*Forth and back*
Total CF of project	**722**	*kg CO2-eq*
Total CF of project	**0.72**	*t CO2-eq.*

Overview of assessed categories	
Sawing incl handling	
Description	sawing and loading biomassa
Transport vehicle	Excavator stage V
Duration (days)	-
Processing	
Duration (days)	2
Transport vehicle	hay
Transport	
Field area [ha]	0.0001
Transport distance (Source - field)	1.00
Transport vehicle	Large truck, >20 tons, EURO 6
Occurring amount transport	0
Measurement	
Transport distance (Office - field)	4
Transport vehicle	Medium car, Diesel, EURO 6
Occurring amount (of project)	1
Travelling	
Description	Business trips to project
Transport distance (Office -	4
Transport vehicle	Medium car, Electric
Occurring amount (of projects)	6
Description	Visiting field

Sources			
value	**source**	**URL**	Notes
reduction	2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas	https://www.ipcc.ch/report/2019-refinement-to-the-2006-ipcc-guidelines-for-national-greenhouse-gas-inventories/	
transport	STREAM Freight Transport 2020	https://cedelft.eu/publications/stream-freight-transport-2020/	
transport	Milieucentraal	https://www.milieucentraal.nl/duurzaam-vervoer/co2-uitstoot-fiets-ov-en-auto/	

$$ER_{SS,y} = \sum_{t}\sum_{k}(CC_{t,k,y} \times \frac{44}{12}) - PE_{SS,t,p,y}$$

ERSS,y = GHG emissions removals as a result of the subsurface storage in year y (tCO2e)

CCt,k,y = Organic carbon content on a dry weight basis for biomass type t used for subsurface storage facility type k in year y (tonnes)

PESS,t,p,y = Total project emissions at sourcing, transportation and application stages of storing biomass type t at subsurface storage facility type k in year y (tCO2e)

$\frac{44}{12}$ = Coefficient to convert organic carbon to tCO2e