General information

Remover name	Bart van Beuzekom		
Project code	SCVL002		
Project name	Scave Portugal Agroforest		
Location	Cidadelhe(Pinhel), Portugal		
Area	40,90	ha	
Duration	100	years	estimated permanence of removal and storage
Correction rocky soil	30%		Correction factor for soil-less area (rocks)
Holding pool	20%		freed up when measurements confirm projection pathways
Project emissions	20%		LCA estimate, or specified when >20%

Per hectare

Baseline TEC	152	tCO2/ha	Below Ground and Soil Organic Carbon, following CDM AR-ACM0003, excl above ground carbon
Target TEC	596	tCO2/ha	Using CEDA and Soil sample data
Storage	444	tCO2/ha	Storage -/- baseline

Per project

Projected storage	12.717	tCO2	storage per ha x area
LCA emissions	2.543	tCO2	project related emissions
Net storage	10.174	tCO2	project storage -/- emissions over 20 years

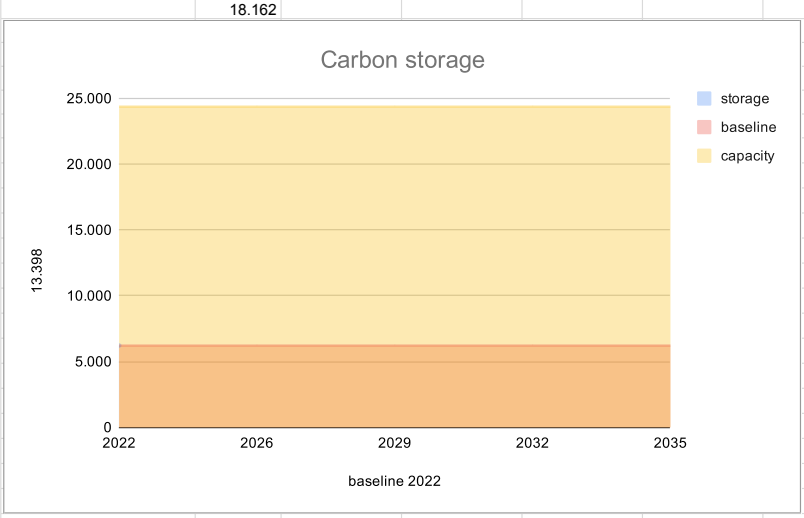
Removal credits issued

Credits first 12 years	6.104	credits	12/20 x net storage potential
Holding Pool	1.221	credits	20% of the first 12 years
Credits issued	4.883	credits	

Field Code	Field name	Size (ha)	Owner
SCV-P02-A01	Cavalete	4,3	Arvoterra 1
SCV-P02-A02	Fonte Seixo/Lagartixa	5	Arvoterra 1
SCV-P02-A03	Carrascal	1,3	Arvoterra 1
SCV-P02-A04	Alagoa	1,2	Arvoterra 1
SCV-P02-A05	Paul_art nº559	4,6	Arvoterra 1
SCV-P02-A06	Barroqueira	5,4	Arvoterra 1
SCV-P02-A07	Ramira Agroforest	5,2	Arvoterra 1
SCV-P02-A08	Vaqueira	3,5	Arvoterra 1
SCV-P02-A09	Cebolas Agroforest	10,4	Arvoterra 1
SCV-P02-R	Reference		

#	Field code	Field	Year	Date	Sample depth	SOC/AGB/REF	Carbon (g/kg)	AGB (tCO2/ha)	AGB (tBiomass/ha)	Sample/report nr.	report link	Sample done by	Notes	Ha	Product
Measurer	Field code	Field	Date	Sample depth	Carbon (g/kg)	Sample/report nr	report link	Sample done by	Notes						
1	SCV-P02-A01	CAVALETE	2022	30-6-2022	30	SOC	8			418		10		4,3	34,4
2	SCV-P02-A01	CAVALETE	2022	30-6-2022	30	SOC	9			427				4,3	38,7
3	SCV-P02-A05	PAUL	2022	30-6-2022	30	SOC	10			435				4,6	46
4	SCV-P02-A06	BARROQUEIRA	2022	30-6-2022	30	SOC	8			426				5,4	43,2
5	SCV-P02-A02	FONTE SEIXO	2022	30-6-2022	30	SOC	11			423				5	55
6	SCV-P02-A07	RAMIRA Agroforest	2022	30-6-2022	30	SOC	8			434				5,2	41,6
7	SCV-P02-A08	VAQUEIRA	2022	30-6-2022	30	SOC	8			439				3,5	28
8	SCV-P02-A09	AGROFOREST CE	2022	30-6-2022	30	SOC	7			433				10,4	72,8
9	SCV-P02-A09	AGROFOREST CE	2022	30-6-2022	30	SOC	9			437				10,4	93,6
10	SCV-P02-A09	AGROFOREST CE	2022	30-6-2022	30	SOC	11			438				10,4	114,4
11	SCV-P02-A03	CARRASCAL	2022	30-6-2022	30	SOC	9			420				1,3	11,7
12	SCV-P02-A03	CARRASCAL	2022	30-6-2022	30	SOC	15			424				1,3	19,5
13	SCV-P02-A04	ALAGOA	2022	30-6-2022	30	SOC	11			431				1,2	13,2
14	SCV-P01-Q02	Quinta	2023	11-12-2023	30	REF	24,9047619			Average		Average of treeplanting measurements ir		#N/A	#N/A
15	SCV-P02-A01	CAVALETE	2020	1-1-2020	30	AGB	0	0						4,3	0
16	SCV-P02-A05	PAUL	2020	1-1-2020	30	AGB	0	0						4,6	0
17	SCV-P02-A06	BARROQUEIRA	2020	1-1-2020	30	AGB	0	0						5,4	0
18	SCV-P02-A02	FONTE SEIXO	2020	1-1-2020	30	AGB	0	0						5	0
19	SCV-P02-A07	RAMIRA Agroforest	2020	1-1-2020	30	AGB	0	0						5,2	0
20	SCV-P02-A08	VAQUEIRA	2020	1-1-2020	30	AGB	1,4	1,4						3,5	4,9
21	SCV-P02-A09	AGROFOREST CE	2020	1-1-2020	30	AGB	0	0						10,4	0
22	SCV-P02-A03	CARRASCAL	2020	1-1-2020	30	AGB	0,1	0,1						1,3	0,13
23	SCV-P02-A04	ALAGOA	2020	1-1-2020	30	AGB	0	0						1,2	0
														#N/A	#N/A
024	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		23			CARVALHO PORTUGUÊSQ1				#N/A	#N/A
025	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		29			CARVALHO PORTUGUÊSQ2				#N/A	#N/A
026	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		23			CARVALHO PORTUGUÊSQ3				#N/A	#N/A
027	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		28			CARVALHO PORTUGUÊSQ4				#N/A	#N/A
028	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		28			CARVALHO PORTUGUÊSQ5				#N/A	#N/A
029	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		24			CARVALHO PORTUGUÊSQ6				#N/A	#N/A
030	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		26			SOBREIROQ1				#N/A	#N/A
031	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		23			SOBREIROQ2				#N/A	#N/A
032	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		18			SOBREIROQ3				#N/A	#N/A
033	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		26			SOBREIROQ4				#N/A	#N/A
034	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		22			SOBREIROQ5				#N/A	#N/A
035	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		15			SOBREIROQ6				#N/A	#N/A
036	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		27			CARVALHO NEGRALQ1				#N/A	#N/A
037	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		22			CARVALHO NEGRALQ2				#N/A	#N/A
038	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		16			CARVALHO NEGRALQ3				#N/A	#N/A
039	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		32			CARVALHO NEGRALQ4				#N/A	#N/A
040	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		30			CARVALHO NEGRALQ5				#N/A	#N/A
041	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		27			CARVALHO NEGRALQ6				#N/A	#N/A
042	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		24			AMIEIROQ1				#N/A	#N/A
043	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		30			AMIEIROQ2					
044	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		30			AMIEIROQ3					
045	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		31			AMIEIROQ4					
046	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		20			AMIEIROQ5					
047	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		33			AMIEIROQ6					
048	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		30			LODÃOQ1					
049	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		36			LODÃOQ2					
050	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		34			LODÃOQ3					
051	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		25			LODÃOQ4					
052	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		26			LODÃOQ5					
053	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		27			LODÃOQ6					
054	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		20			FREIXOQ1					
055	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		22			FREIXOQ2					
056	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		18			FREIXOQ3					
057	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		27			FREIXOQ4					
058	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		25			FREIXOQ5					
059	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		27			FREIXOQ6					
060	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		24			BÉTULAQ1					
061	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		18			BÉTULAQ2					
062	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		24			BÉTULAQ3					
063	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		17			BÉTULAQ4					
064	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		18			BÉTULAQ5					
065	SCV-P01-Q02	Reforest test location quinta		03-05-2022	30		21			BÉTULAQ6					

Carbon Calculation for		**SCVL002**								
Surface	40,9	ha	Fields tab							
Capacity Reference SOC	24,90	SOC g/kg	References tab							
Capacity Reference AGB	229,17	tCO2e/ha	References tab							
	2022		**2026**		**2029**		**2032**		**2035**	
Measurement average	9,10	SOC g/kg	#DIV/0!	SOC g/kg	#DIV/0!	SOC g/kg	#DIV/0!	SOC g/kg	#DIV/0!	SOC g/kg
Sample depth	30	cm	#DIV/0!	cm	#DIV/0!	cm	#DIV/0!	cm	#DIV/0!	cm
Calculation depth	30	cm	30	cm	30	cm	30	cm	30	cm
Soil density	1,52	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3
SOC (soil carbon) / ha	152	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha
AGB (above ground) / ha	0,12	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha
Storage current (excl AGB)	6.225	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e
Storage capacity (excl AGB	24.387	tCO2e	24.387	tCO2e	24.387	tCO2e	24.387	tCO2e	24.387	tCO2e
	18.162									



Sources									
value	**source**	**URL**	Notes						
CEDA aboveground biomass carbon	https://climatee	https://datacedaa	2018 data						
SOC	A critical review of the conventional SOC to SOM conversion factor (Geoderma,Volume 156, Issues 3–4, 15 May 2010, Pages 75-83)								
Density	Wageningen Ur	https://edepot.wu	We've added these soil density levels to the calculation factors tab						
Reference data for capacity									
Reference description									
Data location									
SOC (soil)	24,9047619	C g/kg	Target reference	x	y				
AGB (above ground)	324,5	tCO2e/ha	177	-7,01182	40,90392				
reference coordinates full agroforest			Agroforest conservative reference						
AGB (above ground)	229,1666667	tCO2e/ha	125						
SCV-P002 reference coordinates		x	y	agb t/ha	avg	min	max		
-7,113	-7,112	-7,113	40,949	0	0,00	0	0		
40,950	40,948	-7,113	40,949	0					

from C to CO2	3,666666667		
soil density	% organic matter	% organic carbor	soil density
1,59	0,5	0,25	1,59
1,52	1,5	0,75	1,52
1,45	2,5	1,25	1,45
1,39	3,5	1,75	1,39
1,34	4,5	2,25	1,34
1,29	5,5	2,75	1,29
1,24	6,5	3,25	1,24
1,18	7,5	3,75	1,18
1,13	8,5	4,25	1,13
1,09	9,5	4,75	1,09
1,05	10,5	5,25	1,05
1,01	11,5	5,75	1,01
0,96	12,5	6,25	0,96
0,93	13,5	6,75	0,93
0,9	14,5	7,25	0,9
0,87	15,5	7,75	0,87
0,84	16,5	8,25	0,84
0,81	17,5	8,75	0,81
0,79	18,5	9,25	0,79
0,77	19,5	9,75	0,77
0,75	20,5	10,25	0,75
0,73	21,5	10,75	0,73
0,71	22,5	11,25	0,71
0,7	23,5	11,75	0,7
0,69	24,5	12,25	0,69
0,67	25,5	12,75	0,67
0,65	27	13,5	0,65
0,62	29	14,5	0,62
0,6	31	15,5	0,6
0,58	33	16,5	0,58
0,56	35	17,5	0,56
0,54	37	18,5	0,54
0,52	39	19,5	0,52
0,5	41	20,5	0,5
0,49	43	21,5	0,49
0,47	45	22,5	0,47
0,46	47	23,5	0,46
0,44	49	24,5	0,44