

General information

Project name	Het Kommebos		
Remover name	Dhr. Wim Wijffels		
Project code	HKBL001		
Location	IJzendijke, NL		
Area	2.50	ha	
Project duration	10	years	duration of first project issuance
Storage duration	20	years	estimated permanence of removal and storage
Holding pool	20%		freed up when measurements confirm projection pathways
Project emissions	20%		LCA estimate, or specified when >20%

Per hectare

Baseline TEC	214	tCO2/ha	TEC, following CDM AR-ACM0003
Reference capacity	644	tCO2/ha	Using CEDA and Soil sample data
Storage potential	430	tCO2/ha	Projection +/- baseline

Per project

Projected storage	1,075	tCO2	storage potential per ha x area
LCA emissions	215	tCO2	project related emissions
Net storage potential	860	tCO2	project storage +/- emissions

Removal credits issued

Credits first 10 years	430	credits	10/20 x net storage potential
Holding Pool	86	credits	20% of the net storage potential
Credits issued	344	credits	

Field Code	Field name	Size (ha)	Owner	
001- HKBL	Het Kommebos	2.5	Dhr. Wim Wijffels	

[illegible]

Carbon Calculation for		HKBL001									
Surface	2.5	ha	Fields tab								
Capacity Reference SOC	350.00	tCO2e/ha	References tab								
Capacity Reference AGB and BGB	294.26	tCO2e/ha	References tab								
		2024		2027		2030		2033		2036	
Measurement average	13.5	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	
Soil density	1.438	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	
SOC (soil carbon) / ha	214	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	
AGB (above ground) / ha	0.73	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	
Storage current	536	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	
Storage capacity	1,611	tCO2e		4,971	tCO2e	4,971	tCO2e	4,971	tCO2e	4,971	tCO2e

Source value	source	URL	Notes										
CEDA aboveground biomass carbon	https://climateesg.com/data/ceda/	https://dataceda.org/	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 Univ	https://edepot.wur.nl/handle/1874/43488	We've added these soil density levels to the calculation factors tab										
Paulownia growth	Berg et al (2019)	https://link.springer.com/article/10.1007/s11676-019-01021-9											
Reference data for capacity													
Soil Organic Carbon (SOC)	350.00	tCO2/ha	estimation based on https://esdac.jrc.ec.europa.eu/content/pan-european-soc-stock-agricultural-soils										
Trees (AGB and BGB)	294.26	tCO2/ha	Aboveground and belowground biomass										
CALCULATION													
Trees per hectare	780.00	trees/ha											
Damage percentage	1%	trees/y	corrected for replant (2% - 1% = 1%) https://link.springer.com/article/10.1007/s11676-019-01021-9										
Time first harvest	8	y											
Time successive harvests	8	y											
Harvest per harvest year	150	trees/ha											
Wood volume per tree	1.0	m3											
Density dry	275	kg/m3	https://www.researchgate.net/publication/360278806_The_Influence_of_Age_on_the_Wood_Properties_of_Paulownia_tomentosa_Thunb_Steud										
CO2 stock trees 8 years 800 trees	294.26	tCO2/ha	AGB and BGB 5 year average										
AGB and BGB CO2 stock													
	y	#trees	vol/tree m3	vol/ha	% in roots/tops	dry matter	CO2 stock						
		trees/ha	m3	m3/ha	%	tons	tCO2/ha						
	1	780	0	0	30%	0.00	0.00						
	2	772	0.02	15.44	30%	5.52	10.12						
	3	764	0.05	38.22	30%	13.67	25.05						
	4	757	0.09	68.11	30%	24.35	44.64						
	5	749	0.18	134.87	30%	48.22	88.39						
	6	742	0.35	259.62	30%	92.81	170.16						
	7	734	0.50	367.18	30%	131.27	240.65						
	8	727	0.65	472.56	30%	168.94	309.72						
	9	720	0.75	539.81	30%	192.98	353.80						
	10	713	0.85	605.66	30%	216.52	396.96						
	11	705	0.90	634.88	30%	226.97	416.11						
	12	698	0.95	663.45	30%	237.18	434.83						
	13	691	1.00	691.38	30%	247.17	453.14						
	14	684	1.05	718.69	30%	256.93	471.04						
	15	678	1.10	745.38	30%	266.47	488.54						
	16	671	1.15	771.47	30%	275.80	505.64						
	17	664	1.20	796.96	30%	284.91	522.34						
	18	657	1.25	821.87	30%	293.82	538.67						
	19	651	1.30	846.20	30%	302.52	554.61						
	20	644	1.35	869.96	30%	311.01	570.18						

