

General information

Remover name	Finca Las Chatías		
Project code	FCBL001		
Project name	Bambu - Finca Las Chatías		
Location	Los Cerritos, Guatemala		
Area	1.44	ha	
Start year	2025		year of planting
Duration	20	years	project duration
Holding pool	20%		freed up when measurements confirm projection pathways
Project emissions	20%		LCA estimate, or specified when >20%

Per hectare

Baseline TEC	171	tCO2/ha	Soil Organic Carbon and Above Ground Carbon, following CDM AR-ACM0003
Reference capacity	573	tCO2/ha	Using CEDA and Soil sample data
Storage potential	402	tCO2/ha	Projection +/- baseline

Per project

Projected storage	580	tCO2	storage potential per ha x area x storage duration 100 year equivalent
LCA emissions	116	tCO2	project related emissions
Net storage potential	464	tCO2	project storage +/- emissions over 20 years

Potential Carbon Removal Units

Units first 12 years	278	units	12/20 x net storage potential
Holding Pool	56	units	20% of the first 12 years
Potential units issued	223	units	

Field Code	Field name	Size (ha)	Owner	Species	
A	Bambu Plantation Finca Las Chatias	1.44		Dendrocalamus asper	
B					

#	Field code	Field	Year	Date	Sample depth (cm)	SOC/AGB/REF	Carbon (g/kg)	AGB (tCO ₂ /ha)	Sample/report nr.
001	A	Bambu Plantation F	2023	03-31-2023	30	SOC	10		131566
002	A	Bambu Plantation F	2020	1/1/2020		AGB		7.647	
003		#N/A	1899			SOC			
004		#N/A	1899			SOC			
005		#N/A	1899			SOC			
006		#N/A	1899						
007		#N/A	1899						
009		#N/A	1899						
010		#N/A	1899						
011		#N/A	1899						
012		#N/A	1899						
013		#N/A	1899						
014		#N/A	1899						
015		#N/A	1899						

Bamboe Plantation Fijica Las Chatisas.kml

Year	Above Ground Biomass (Mg/ha)	Carbon (Mg/ha)	CO ₂ Equivalent (Mg/ha)
2010	8.290	4.145	15.198
2017	4.303	2.152	7.890
2018	1.768	0.884	3.241
2019	4.738	2.369	8.687
2020	1.755	0.878	3.218
Average	4.171	2.085	7.647

Carbon Calculation for		FCBL001									
Surface	1.44	ha	Fields tab								
Capacity Reference SOC	30.00	SOC g/kg	References tab								
Capacity Reference AGB	156.02	tCO2e/ha	References tab								
	2024		2027		2030		2033		2036		
Measurement average	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
Soil density	1.485	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	#DIV/0!	g/cm3	
SOC (soil carbon) / ha	163	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	
AGB (above ground) / ha	7.65	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	#DIV/0!	tCO2e/ha	
Storage current	246	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	#DIV/0!	tCO2e	
Storage capacity	826	tCO2e		826	tCO2e		826	tCO2e		826	tCO2e

Sources									
value	source	URL	Notes						
CEDA aboveground biomass carbon	https://climatee	https://datadecad	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.wur.nl/handle/2027.41/10337	We've added these soil density levels to the calculation factors tab						
Reference data for capacity									
TEC		573 tCO ₂ e/ha							
SOC (soil)		30 gC/kg							
AGB (biomass)		156 tCO ₂ e/ha							
TEC reference	156.4 tC/ha	King et al., 2021	https://pure.tudelft.nl/ws/portals/filesportal/90321914/Mar_2021_Integration_of_Bamboo_Forestry_into_Carbon_Markets_2.pdf						

0.498	41.4	20.7	0.498
0.497	41.6	20.8	0.497
0.496	41.8	20.9	0.496
0.495	42	21	0.495
0.494	42.2	21.1	0.494
0.493	42.4	21.2	0.493
0.492	42.6	21.3	0.492
0.491	42.8	21.4	0.491
0.49	43	21.5	0.49
0.488	43.2	21.6	0.488
0.486	43.4	21.7	0.486
0.484	43.6	21.8	0.484
0.482	43.8	21.9	0.482
0.48	44	22	0.48
0.478	44.2	22.1	0.478
0.476	44.4	22.2	0.476
0.474	44.6	22.3	0.474
0.472	44.8	22.4	0.472
0.47	45	22.5	0.47
0.469	45.2	22.6	0.469
0.468	45.4	22.7	0.468
0.467	45.6	22.8	0.467
0.466	45.8	22.9	0.466
0.465	46	23	0.465
0.464	46.2	23.1	0.464
0.463	46.4	23.2	0.463
0.462	46.6	23.3	0.462
0.461	46.8	23.4	0.461
0.46	47	23.5	0.46
0.458	47.2	23.6	0.458
0.456	47.4	23.7	0.456
0.454	47.6	23.8	0.454
0.452	47.8	23.9	0.452
0.45	48	24	0.45
0.448	48.2	24.1	0.448
0.446	48.4	24.2	0.446
0.444	48.6	24.3	0.444
0.442	48.8	24.4	0.442
0.44	49	24.5	0.44

