

General information

Remover name	Empresa Agropecuaria Santa Elena		
Project code	FCBL002		
Project name	GuateLinda Bamboo		
Location	Patulul, Guatamala		
Area	4.31	ha	
Start year	2025		year of first soil measurement, plants were planted in 2023
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	475	tCO2/ha	Soil Organic Carbon and Above Ground Carbon, following CDM AR-ACM0003
Reference capacity	623	tCO2/ha	Using CEDA and Soil sample data
Storage potential	148	tCO2/ha	Projection +/- baseline

Per project

Projected storage	638	tCO2	storage potential per ha x area x storage duration 100 year equivalent
LCA emissions	128	tCO2	project related emissions
Net storage potential	510	tCO2	project storage +/- emissions over 20 years

Potential Carbon Removal Units

Units first 12 years	306	units	12/20 x net storage potential
Holding Pool	61	units	20% of the first 12 years
Potential units issued	245	units	

Field Code	Field name	Size (ha)	Owner	Species					Area (m2)	No. Plants
A	GuateLinda PolygonA	1.4083	Empresa Agrope	Dendrocalamus Asper				Polygon A	14083,03	66
B	GuateLinda PolygonB	0.2428	Empresa Agrope	Dendrocalamus Asper				Polygon B	2428,24	12
C	GuateLinda PolygonC	0.73	Empresa Agrope	Dendrocalamus Asper				Polygon C	7289,93	59
D	GuateLinda PolygonD	0.766	Empresa Agrope	Dendrocalamus Asper				Polygon D	7660,36	58
E	GuateLinda PolygonE	1.1581	Empresa Agrope	Dendrocalamus Asper				Polygon E	11581,65	34
									43043,21	229

Carbon Calculation for		FCBL002							
Surface	4.3052 ha	Fields tab							
Capacity Reference SOC	47.01 tCO ₂ e/ha	References tab							
Capacity Reference AGB	101.20 tCO ₂ e/ha	References tab							
	2025		2028		2031		2034		2037
Measurement average	21 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	1.355 g/cm ³	#DIV/0!	g/cm ³	#DIV/0!	g/cm ³	#DIV/0!	g/cm ³	#DIV/0!	g/cm ³
SOC (soil carbon) / ha	313 tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha
AGB (above ground) / ha	161.99 tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha	#DIV/0!	tCO ₂ e/ha
Storage current	2,045 tCO ₂ e	#DIV/0!	tCO ₂ e	#DIV/0!	tCO ₂ e	#DIV/0!	tCO ₂ e	#DIV/0!	tCO ₂ e
Storage capacity	2,683 tCO ₂ e		2,871 tCO ₂ e		2,871 tCO ₂ e		2,871 tCO ₂ e		2,871 tCO ₂ e

Sources									
value	source	URL	Notes						
CEDA aboveground biomass carbon	https://climatee	https://dataceda.acuk/ne	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/76	We've added these soil density levels to the calculation factors tab						
Reference data for capacity									
SOC (soil)	47	tCO2e/ha							
AGB (biomass)	101	tCO2e/ha							
Density of the plants	53.191								
Total number of plants	229.000								
Planted areas	Number of plants								
Polygon A	66								
Polygon B	12								
Polygon C	59								
Polygon D	58								
Polygon E	34								
	229								
Reference values									
Source	Link	Species	Location	Context	Density (plants/	TEC (tC/ha	AGC (tC/ha)	AGB+BGB (tC/ha)	
Prayogo et al., 2021	https://iopscience	Dendrocalamus asper	Indonesia - Mala	Riparian bamboo	113-191	215.48	189.84		
Deepika et al., 2022	https://journalij	Dendrocalamus asper	India - Forest Research Institute, Dehradun, Uttrakhi					87.52	
Patricio & Dumago, 20	https://multidis	Dendrocalamus asper	Phillipines - Bukidnon		6900-8600 culms/ha		86.7		
Kigomo et al., 2025	https://doi.org	Dendrocalamus asper	Kenya		53		27.6		

