

RESULTADOS DE PALMGhG Versión 3

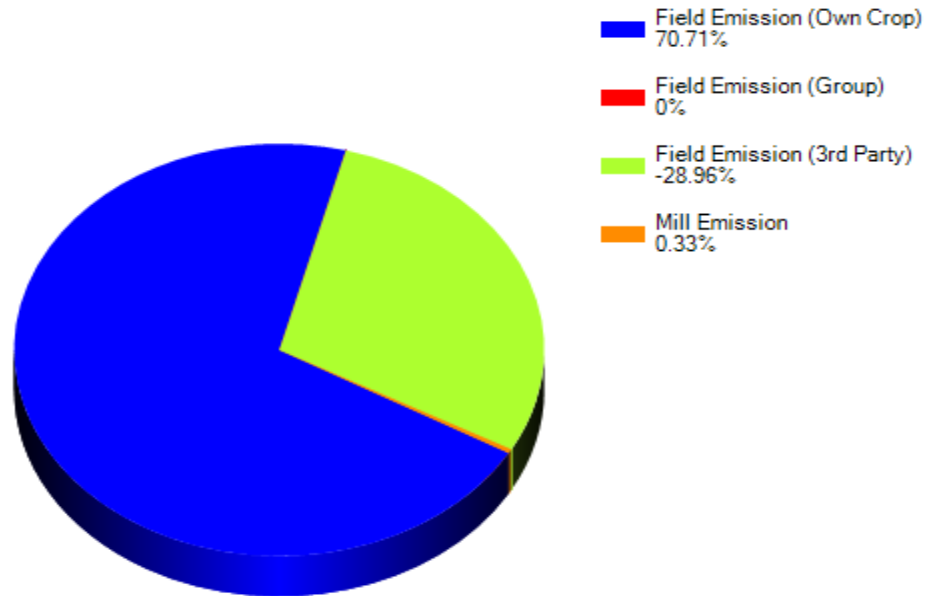
C.I. TEQUENDAMA S.A.S. 2019

Summary Emissions

	Product	tCO2e/t Product
▶	CPO	-0.24
	PK	-0.24
	PKO	-0.1
	PKE	-0.1

	Description	Unit	Value
▶	Total Planted Area	Ha	3695.12
	Total Planted Area on Peat	Ha	0
	Conservation Area	Ha	882.93
	OER	%	21.63
	KER	%	3.47

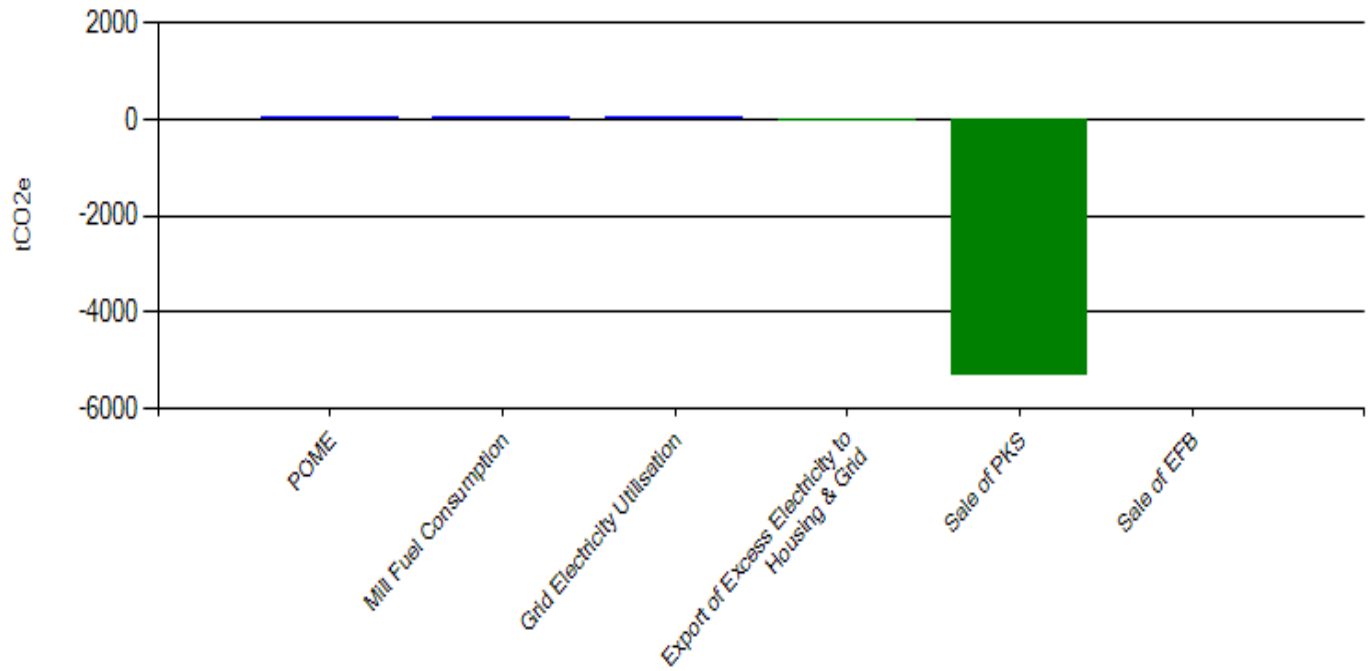
Emissions



Mill Emissions and Credits

	Description	tCO2	tCO2e/t FFB
▶	Emissions Sources		
	POME	44.36	0
	Fuel Consumption	14.89	0
	Grid Electricity Utilisation	2.9	0
	Credits		
	Export of Excess Electricity to Housing & Grid	-12.36	0
	Sale Of PKS	-5332.14	-0.07
	Sale Of EFB	0	0
	Total	-5282.35	-0.07

Mill Emissions and Credits



Plantation / field emissions and sinks

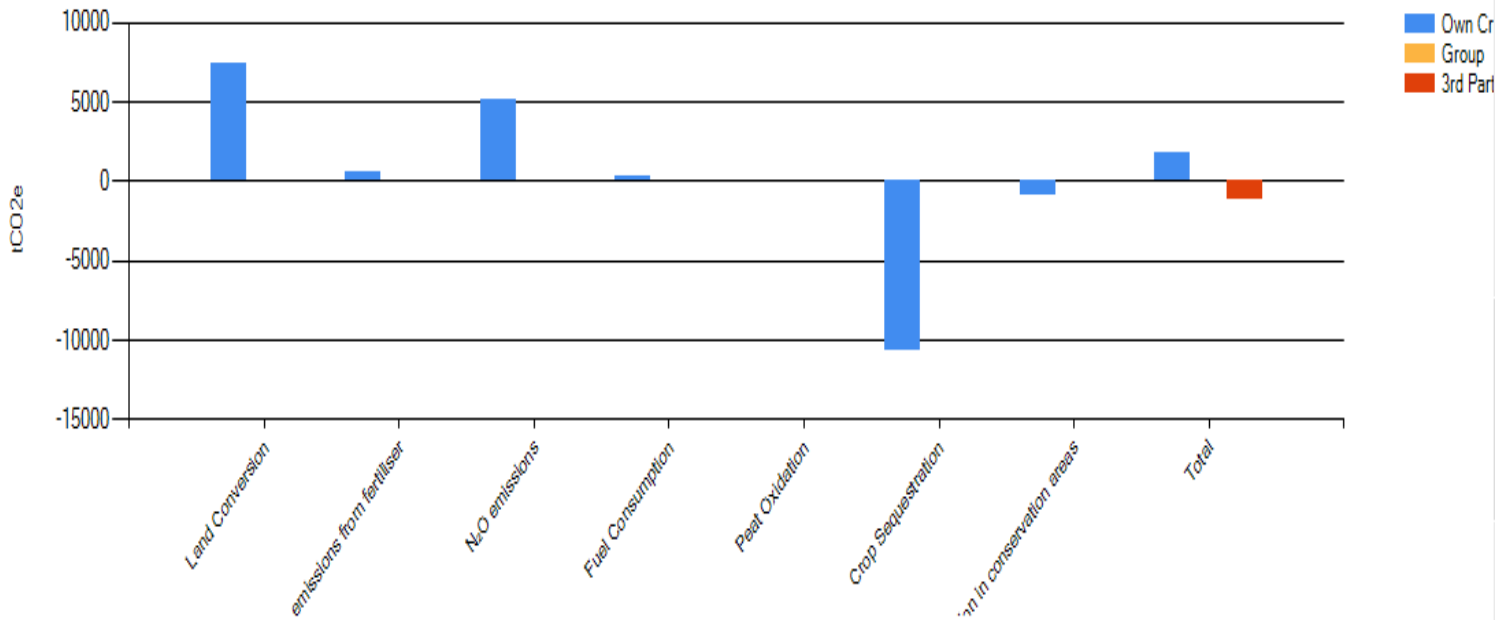
Own

Group

3rd Party

Description	Own			Group			3rd Party		
	tCO2e	tCO2e/ha	tCO2e/t FFB	tCO2e	tCO2e/ha	tCO2e/t FFB	tCO2e	tCO2e/ha	tCO2e/t FFB
Emission Source									
Land Conversion	7379.4	3.31	0	0	0	0	0	0	0
CO2 Emissions from Fertiliser	648.4	0.27	0	0	0	0	0	0	0
N2O Emissions	5130.01	1.45	0	0	0	0	0	0	0
Fuel Consumption	276.03	0.58	0	0	0	0	0	0	0
Peat Oxidation	0	0	0	0	0	0	0	0	0
Sinks									
Crop Sequestration	-10688.54	-7.17	-0.01	0	0	0	0	0	0
Sequestration in Conservation Area	-912.05	-0.34	0	0	0	0	0	0	0
Total	1833.25	-1.9	0	0	0	0	-1106.98	0	0

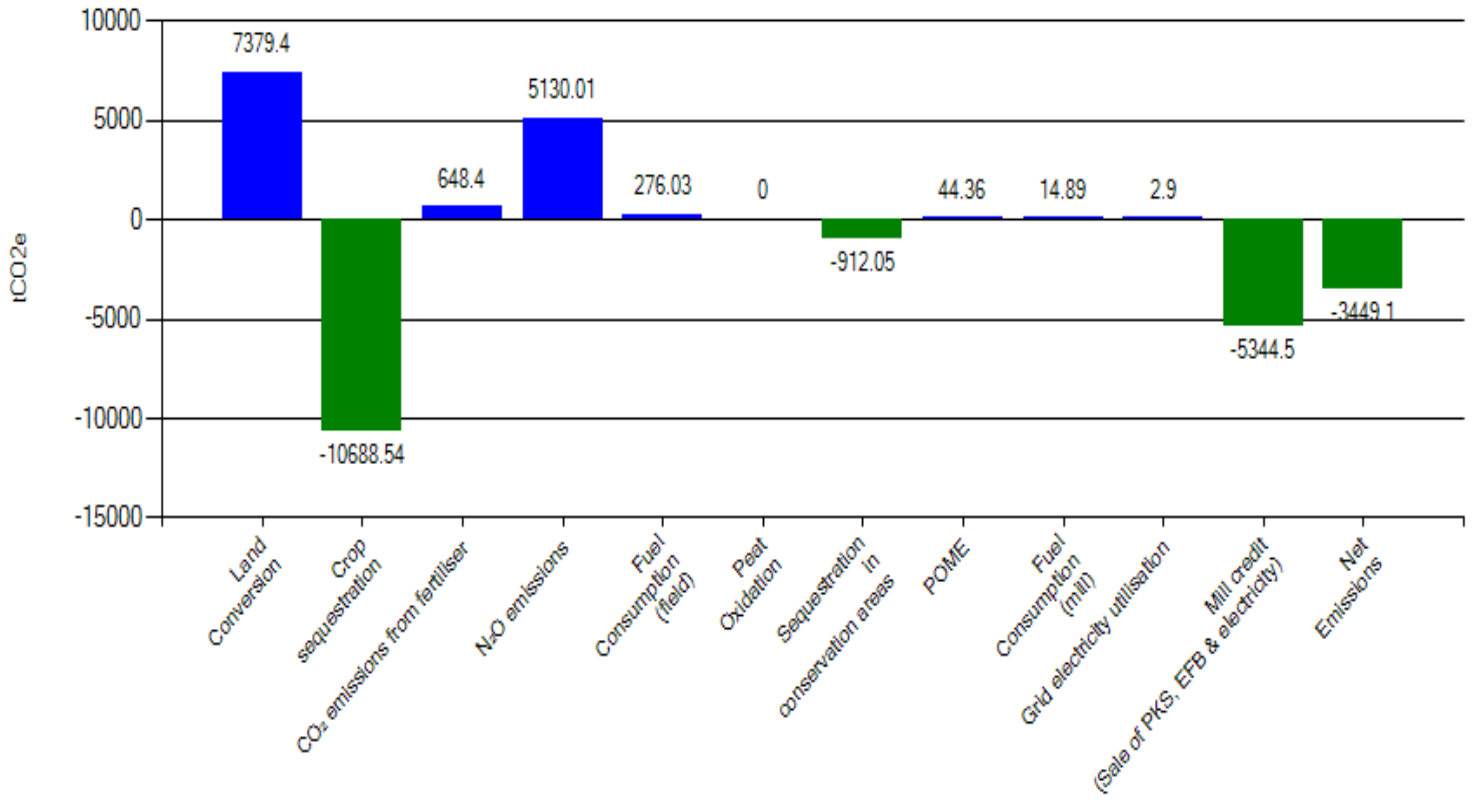
Field Emissions and Sinks



Emissions from Palm Kernel Crusher

	Emission Source	tCO2e
▶	PK from own mill	-630.32
	PK from other sources	66.31
	Fuel consumption	0
	Total crusher emissions	-564.02

Emission source / sinks



Emission From POME

Part 1 : POME Production

No.	Description	Unit	Values
1	FFB Processed	t/yr	76240.56
2	POME Produced	t/yr	7441.22

Part 2b: CH4 emission (actual)

ID	Description	%	COD removed (tCOD/tPOME)	CH4 emissions (t/yr)
1	POME to Anaerobic Pond	0	0.0145	0
2	POME to Methane Capture (Electricity Generation)	0	0.0145	0
3	POME to Methane Capture (Flaring)	100	0.0145	1.99
4	Total			1.99

Part 3 : POME Emissions

No.	Description	POME produced (t/yr)	%	CH4 emissions (t/yr)	GWP (100) of CH4	Emissions (tCO2e/yr)
1	POME emissions	7441.22	100	1.99	22.25	44.36

Emission from Fuel Consumption - Milling

No.	Type	Volume (l/yr)	Emission kgCO2e/l	Total emission tCO2e
1	Diesel	4773.4	3.12	14.89

Emission from Fuel Consumption - Crushing (only if kernel crusher option is included)

No.	Type	Volume (l/yr)	Emission kgCO2e/l	Total emission tCO2e
2	Diesel	0	3.12	0

Mill Electricity

No.	Description	kWh/yr	Electricity emission co-efficient (kgCO2e/kWh)	Emissions (tCO2e/yr)
1	Grid Electricity Utilisation	23619	0.12277	2.9
2	Excess electricity exported to worker's housing and/or national grid	100687	0.12277	-12.36

PKS Credit

	No.	Description	Volume (t/yr)	Credit as substitute for coal (kg CO ₂ e/tPKS)	Electricity credit (tCO ₂ e/yr)
▶	1	Sale of PKS for electricity generation	2423.7	2200	5332.14

Sale of EFB

	No.	Description	Volume sold (t/yr)	Electricity emission co-efficient (kgCO ₂ e/MJ)	Energy production MJ/TEFB	Electricity credit (tCO ₂ e/yr)
▶	1	Sale of EFB for electricity generation	0	0.03	1576.75	0

Emissions from field application of organic fertilisers (POME, EFB, Compost)

	No	Description	Applied volume (t)	%N	Applied N (t/yr)	Direct N ₂ O loss (t)	Indirect N ₂ O loss (t)	Emissions (tCO ₂ e)
▶	1	POME	0	0.045	0	0	0	0
	2	EFB	3354.58	0.32	10.73	0.17	0.07	71.57
	3	Compost	75538	1	755.38	11.86	5.04	5036.12