Project Identification Note (PIN)

This document has a guideline objective for Green Farm CO2FREE's Payment for Ecosystem Services – PES Carbon, covering its potential to generate ecosystem credits (carbon). All estimates presented are preliminary and do not give any right to obtain carbon credits, which are subjected to adequacies and the resulting reduction on GHG emissions or enhancement of anthropogenic net positive balance of sequestration and storage of carbon (removal of atmospheric CO2) from the project activities.

PROJECT IDEA NOTE

A. Project description, type, location and schedule

Name of Project: Fazenda Porto Bonito and Green Farm BiRCS

Technical summary of the project Date submitted: xx/xx/2024

Objective
of the
project

The objective of the project is to introduce tested and proven **BiRCS** tree-based "Forestry System" management to improve Harvested Wood Products (HWP) including biochar, Non-Timber Forest Products (NTFP), and carbon removals from soil application in Itaquirai, MS, Brazil. The proposed project interventions through development and promotion of high-quality planting materials will transform the natural yields with higher returns through principles of improved forest management (IFM), HWP and NTFP production, ending up by biochar soil application.

Project description and proposed activities

A Project of Improved Forest Management activities with tree species for the production of industrial wood and Non-Timber Forest Products (NTFP) including biochar, with the purpose of removing and stocking atmospheric CO2, enhancing water availability and improving soil condition and quality.

Activities include inventories and implementation and management of forestry treatments. The project will promote forestry systems to intercrop suitable HWP and NTFP production. The project will also produce biochar and apply it to the soils within the region.

The project has a pilot focus area of about 4,654 ha covered by different land uses including 3,659 ha of degraded secondary forests as showed at the Table:

Nome do Imóvel Rural	Município	UF	Área Total	Consolidated	APP	AVN	RL
				(ha)			
Fazenda Porto Bonito	Itaquirai	MS	2254	1088	158	1101	451
Fazenda Green Farm	Itaquirai	MS	2400		2000	400	

Landscapes of different native and introduced vegetation, as well as degraded areas that should be reforested or restored in a holistic approach with other land uses. The area of 4,654 ha corresponds to two properties under a single company located at Itaquirai, Mato Grosso do Sul state, Brazil. With the BiRCS AR-IFM-HWP-Biochar-SOC program of activities owned by Green Farm CO2FREE cultivating trees and participating at forestry production chain.

The different project activities, HWP, biochar and land use borders and their monitoring will be subjects of the BiRCS MRV methodology registered by Foundation of Forestry Research from Federal University of Parana FUPEF version 1.0 (2024). FUPEF is a Brazilian institution of national reference in the forestry sector. The plots and their management are under the Green Farm CO2FREE which is responsible for monitoring and hiring 3rd parties' auditors to validate and verify project activities.

Technology to be employed

Integrated management of rural property, including environmental liabilities and a set of activities. Specifically, reforestation, avoided degradation of areas and improved forest management with native and introduced tree species seedling aiming at obtaining industrial and energy wood, biochar and carbon credits, through estimates.

- 1. Improved forest management of secondary degraded tropical forest` stands by applying contemporary silvicultural treatments:
- 1.1 Selection of individuals for establishing seed and gene banks
- 1.2 Seed and provenance collections
- 1.3 Prescribed pruning and rejuvenation of non-productive, aged trees
- 1.4 Nursery establishment of improved individuals through seed-based and seedless plant propagation
- 1.5 Planting and plantation regeneration
- 1.6 Selective and prescribed thinning
- 1.7 Biomass and timber harvesting
- 1.8 Biochar production
- 1.9 Biochar application to soils
- 2. Baseline and monitoring of Atmospheric CO2 removals and stocking
 - 2.1 Baseline estimation of carbon pools and stocks
 - 2.2 Projection of carbon stocks by different scenarios of IFM, tree species` orchard rejuvenation, and tree density management.
 - 2.3 Adapting MRV procedures for land use sector (AFOLU) and landscape restoration
 - 2.4 including the production chain of industrial, energy and biochar
 - 2.5 Monitoring SOC under biochar application

Drainet developer	
Project developer	a Croon Form COSEREE
Name of the project developer	a.Green Farm CO2FREE b.Fazenda Porto Bonito
	c. Fazenda Green Farm
Organizational category	a. Private company
Organizational category	a. Thrate company
Other function(s) of the project	a. Sponsor
developer in the project	b. Technical advisor
	c. Activities implementation
Summary of the relevant experience	One of Ferry COOFDEE has been as a read by Ferry de Coord Ferry
of the project developer	Green Farm CO2FREE has been engaged by Fazenda Green Farm
	and Fazenda Porto Bonito to provide required technical advice and support for the proposed forestry intensification and soil biochar
	program. The Green Farm CO2FREE team members have relevant
	experience in the region.
	Green Farm CO2FREE deals with the recovery, maintenance and
	monitoring of vegetation in the areas.
	Carbon projects are consultative in nature. Through the preliminary
	diagnostic study, rural landowners receive a quick analysis of their
	potential to generate carbon credits, based on the activities that are
	already carried out in their areas (or under analysis), in order to
	establish the volumes of gas that are being removed. and stored by
	them.
	The function is to publicize this initial data, presenting the project
	proposal to any clients interested in the benefits generated by these activities.
	Owners are responsible for the information, and Platform for Business
	with Ecosystem and Environmental Goods and Services PNBSAE
	digital registry performs independent registration and disclosure to
	interested parties.
	The development of the carbon project will be carried out by Green
	Farm CO2FREE that will guide the owner on the project preparation,
	actions, monitoring, validation and verification of carbon credits that
	may be placed on the market.
	All personal under Green Farm CO2FREE will be updated on the
	latest developments related to technical and marketing aspects for
	ecosystem services, including carbon. The direction and
	management of the proposing company will be assisted by a team of professionals from different areas involved, serving as technical
	advisors for the implementation and monitoring of project activities.
Address	BR 487, km 123
Contact person	Marcelo Mammana
Telephone / fax	5511-944419723
E-mail and web address, if any	www.greenfarmco2free.com.br
Project sponsors	grownminosmooniou
(List and provide the following informat	ion for all project sponsors)
Name of the project sponsor	Green Farm CO2FREE
Organizational category	a. Private
Address (include web address # c.)	DD 407 km 422
Address (include web address, if any)	BR 487, km 123
Main activities	The Green Farm CO2FREE has been established with the aim of
	organizing biomass industry, improving quality, yields and trade reducing volatility and maintain an acceptable price level. Biomass
	are still being shipped for processing and value aggregation along
	the production and service chains are under development, focusing
	Ture production and service chains are under development, locusing

	on generating Jobs and enforcing a gender agenda in favor of
	women empowerment.
Summary of the financials	
Type of the project	
Greenhouse gases targeted	CO ₂ .
Type of activities	CO ₂ Removal, transfer to products and soil storage (biochar)
Field of activities	Forestry, HWP, Biochar, SOC
BiRCS	Biomass Removal and Carbon Storage
Location of the project	
Region	LAC
Country	Brazil
City	Itaquirai
Brief description of the location of the project	Green Farm is located at the margins of Parana River, 6km from BR 487, km 123 by a secondary road. It is about 180km far from Corumba airport in Mato Grosso do Sul.
Expected schedule	
Earliest project start date	2024/2025
Estimate of time required before	Time required for financial commitments: 06 months
becoming operational after approval of	Time required for legal matters: 06/12 months
the PIN	Time required for negotiations: 06/12 months
 	Time required for field implementation: 12/24 months
Expected first year of carbon credits – tCO2e validated	Year 2025
Project lifetime	Number of years : 15 years, renewable twice (45 years total)
Current status or phase of the project	Identification and pre-selection phase /
Current status of priase of the project	At this point we are on initial identification and pre-selection phase,
	with assets under scrutiny by Green Farm CO2FREE and officials
	in order to identify sites and strata.
Current status of the acceptance of	The National Designated Authority NDA is waiting on the present
the Host Country	document to be forward for review
The position of the Host Country	The Host Country
with regard to the Paris Agreement	a. signed or acceded to the Paris Agreement and
and Glasgow Pact	b. is a Party to the UNFCCC.
	(mention what is applicable)

Estimate of Annual: TOTAL Carbon stock per 4,654 ha of land, 700 ha of AR and 1,600 ton of biochar Greenhouse Up to and including 2025: 10,800 tCO_{2e} Gases abated / Up to a period of 15 years: 172,800 tCO_{2e} CO₂ Up to a period of 30 years: 345,600 tCO_{2e} Sequestered (in Up to a period of 45 years: 518,400 tCO_{2e} metric tons of Note: The above figures are merely indicative and was taken from secondary sources (published literature). CO₂-equivalent) However, the actual data will be collected during activities in the pilot phase **Baseline** A6/ITMO projects must result in GHG emissions being lower than "business-as-usual" in the Host scenario Country. At the PIN stage questions to be answered are at least: Which emissions is the proposed A6 Mechanism (A6/ITMO) project displacing? Secondary degraded forest sites are aged and non-productive which determines its status emitting CO2 from total oxidation of old stands, these will be displaced by revitalization of plantations which will enhance atmospheric CO2 removals. Acid soils also demand high inputs from chemical fertilization and biochar application will reduce emissions from this as well. What would the future look like without the proposed A6/ITMO project? Without the project activity the project the secondary degraded forests will suffer further degradation and eventually end up by dying of age without any new reforestation going on, with the tendency of turning into a disperse vegetation from atmospheric CO2 fertilization and land use change. What would the estimated total greenhouse gas (GHG) removals be? The proposed project has five major implications. The first one is on greenhouse gas (GHG) reduction by means of avoiding all synthetic fertilizers in establishment of tree plantations. The project is proposed based on the principles of low carbon and therefore, it is expected that important amounts of CO₂ emissions can be reduced per year. The second one is on actual Carbon removals by growing trees. It is estimated that since the beginning of interventions as well as by 15th year about 10 tCO2 will be sequestrated per hectare by tree plantations. HWP removal keep the forest productive and healthy, reducing risks of spreading infectious diseases and wild fires while generating jobs, income and further atmospheric CO2 removals. Biochar production transforms biomass residues into high aggregated value soil enhancement technology, also generating jobs and income while storing atmospheric carbon into a useful product. Finally, application of biochar to acid soils rehabilitates productivity and enhance pH up to 7.7 when needed, storing some 20 tCO2e / ha.

The project baseline involves two specific project activities:

- 1. Reduction of emissions from degradation of secondary degraded forests and use of chemical fertilizers
- 2. increase of atmospheric CO2 removal and stock with IFM improved forest management and HWP and biochar traceability to soils.

The replacement of vegetation areas by other land uses is a consequence of population growth and the demand for food, fiber, housing, infrastructure and others. Secondary degraded forests are due to disappear when not rehabilitated to a productive state.

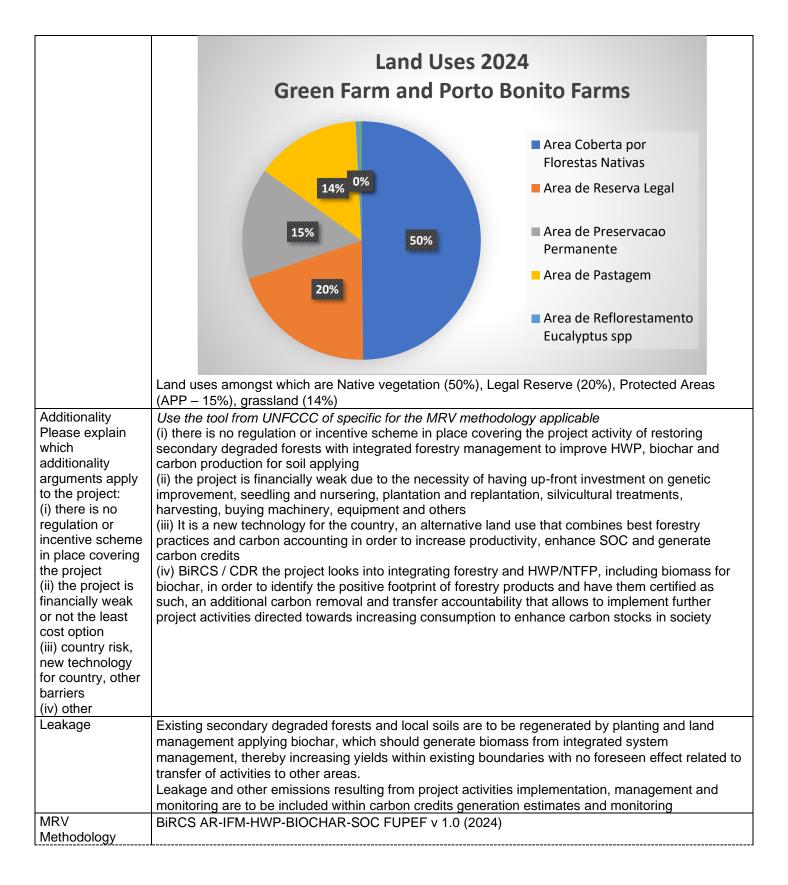
The methodology used is AR-IFM-HWP-BIOCHAR-SOC FUPEF v 1.0 (2024).

In the case of degraded areas their use for non-forest purposes implies increased pressure and a consequent worsening of soil conditions, with an increase in total annual emissions. Without the project, secondary degraded forested and cultivated areas would increase annual emissions.

For sequestration projects only: Existing vegetation and land use

(What is the current land cover and land use? Is the tree cover more or less than 30%?)

Currently, the AR-IFM-HWP-BIOCHAR-SOC Green Farm CO2FREE project area covers 4,654 ha and 700 ha of AR referring to the areas of grassland proposed at local scale. The area for the pilot project comprises different land cover and land use:



					STEPS / PH	ASES					
		PARAMETERS BASELINE	FOREST IMPROVE FOREST MANAGEMENT (IFM) 1m³/ha/year	FORESTRY OPERATIONS 0,5m³/ha/year	INDUSTRIAL TIMBER 0,25 m³/ha/year	CONSTRUCTION WOOD 0,2m³/ha/year	BIOCHAR PRODUCTION 0,01m³/ha/year	STORAGE IN SOILS 0,01m³/ha/year			
		MRV ELEGIBILITY	+CAI/MAI Other uses Standing forest	+ EFICIENCY Standing forest	+ EFICIENCY Standing forest	+ EFICIENCY Standing forest	+ BIOCHAR Standing forest	+ Soils Attributes (productivity enhancement) Standing forest			
		ADDITIONALITY	* enrichment (planting) * management intensity * shorter cycles * better quality	+ biomass usage (reducing waste) + operational quality - operational damage	+ quality + less waste + finished product (standard)	+ quality + less waste + finished product (standard)	+ biochar	+ Forest Growth + Agriculture produce			
		ALOMETRIC EQUATIONS INDICATORS	*area (ha) *productivity (DBH, h) *permance (life-spam)	*productivity (DBH, h) * biomass productivity (m³/ton)	*productivity (m³, m²) * less residues and waste (m³/ton)	PCC • productivity (product dimension) •less Residues and waste (m³/ton)	PCC *biochar (m³/ton)	*area treated (ha) *productivity (MAI/m3/ton)			
		CDR TYPE - UNFCCC Permanence	AFOLU 45 years	1 year	1 year	35 years	1 year	200 years	1		
				BiF	r RCSGr	een Far	m				
Specific global & local environmental benefits Which guidelines	Increase in stock and atmospheric CO2 removals from tree plantations, HWP and biochar production, Reduction of carbon emissions from fertilizers and degradation of secondary degraded forests. Increase of SOC by biochar applying Reforestation, Conservation and enhancement of managed forests for the production of industrial and biomass wood materials, atmospheric CO2 removals and storage in rural property areas. Creating positive incentives for the increase of cultivated flora species, creating conditions for the conservation of local genetic variability.					I					
will be applied?	IFM guidelines from ACR: https://acrcarbon.org/wp-content/uploads/2023/03/Improved-Forest-Management-Primer.pdf IPCC chapter 12 on HWP: https://www.ipcc-nggip.iges.or.jp/public/2019rf/pdf/4 Volume4/19R V4 Ch12 HarvestedWoodProducts.pdf Biochar Guidelines from EBC: https://www.european-biochar.org/en/certificate Biochar to soil from International Biochar Initiative: https://biochar-international.org/wp-content/uploads/2023/01/IBI_Biochar_Application.pdf										
Local benefits	- Crop diversity and sustainable land management - Improved yields - Healthy biomass - Resilient farms and families - Creation of "green" income and jobs, production of HWP and NTFP (biochar) and biomass of sustainable origin, Atmospheric CO2 removals and storage.										
Global benefits	-Climate change mitigation -Healthy biomass -Support food security and livelihoods -Creation of "green" income and jobs, production of HWP and NTFP (biochar) and agrifood of sustainable origin, Atmospheric CO2 removals and storage.										
Socio-economic aspects What social and economic effects can be attributed to the project and which would not have occurred in a comparable	Without the p degradation a into the atmos of water resou By introducing ecosystem se and income a With the mar generated, air	nd chemic sphere. Def irces, in ac g modern rvices provend improve nagement	al fertilizers forestation a ddition to unforestry technision, the pres the region of forested	, compror and soil de wanted ch nniques a roject cont 's microck areas to	mising its gradation anges ir and integ cributes to imate ar estimate	s production also contents the local rating cline of the record local live and more contents the record local live and more contents the contents th	vity and had promised biodivers nate-smale very of development of the promise over the promise of the promise o	nealthy a es the ava sity or lar rt tree-cr egraded a bon, joba	nd em ailabilit adscap op pro areas, s and	itting carly and quate. Induction valuetion of the creates income	bon ality with obs are

situation without that project? Indicate the communities and the number of people that will benefit from this project.

forest management techniques can further increase local capacity building and also encourage exchange and transfers of knowledge/skills to communities and future generation. It is expected that over 65 direct and indirect jobs shall arise from this project. Furthermore, biochar machinery and soil application improve local skills and provide more opportunities to social and economic developed, being a model for local landholders and entrepreneurs.

What are the possible direct effects (e.g., employment creation, capital required, foreign exchange effects)?

- -Sustainable land management leads to higher productivity. It generates more employment opportunities.
- -Quality biomass offers more opportunities to attract international markets (e.g forex) into the country. -Several direct jobs will be generated during the stages of seedling production and planting, in addition to others in the maintenance and monitoring of forest management. With forest harvesting and sustainable management, direct and indirect jobs are generated. With the estimated investment as on the Table:

	AFOLU - IFM (2024-2030)				
1.	Pre operational expenses		value	total	
1.1.	Planning (PIN and PDD)	700	50,00	35.000,00	
1.2.	Forestry planning	700	50,00	35.000,00	
1.3.	Land acquisition			-	
1.4.	others			=	
	Subtotal			70.000,00	
2.	Fixed investments	Qtty	Value	Total	
2.1.	reforestation	700	2.500,00	1.750.000,00	
2.2.	maintenance	700		-	
2.3.	harvest	700	-	-	
	Subtotal			1.750.000,00	
3.	Initial capital			total	
3.1.	cash				
3.2.				-	
3.4.				-	
	Subtotal			=	
	Total (1. + 2. +3.)			1.820.000,00	

For planning, including forestry and carbon, the investment is around US\$ 50 / ha, while reforestation with average 1,250 seedlings of US\$ 3/seedling, demand US\$ 1,750,000 for the 700 ha, while maintenance and harvest can be performed by locals. The volume of 7,000 m3/year would demand some 0,03 jobs per hectare (10% of what is expected from agricultural land use), creating new opportunities for other 21 people. The production of HWP also involves investments, as below:

	CDR - Industrial Timber (2024-2030)				
1.	Pre operational expenses			Valor	
1.1.	Planning (PIN and PDD)	1	50.000,00	50.000,00	
1.2.	Industrial Timber planning	1	20.000,00	20.000,00	
1.3.	Industrial Timber machinery	1	1.000.000,00	1.000.000,00	
1.4.	others			-	
	Subtotal			1.070.000,00	
2.	Fixed investments	Qtty	Value	Total	
2.1.	Storehouse	1.200	400,00	480.000,00	
2.2.	Reposition	1	100.000,00	100.000,00	
2.3.	Harvesting			-	
	Subtotal			580.000,00	
3.	Initial capital			Value	
3.1.				-	
3.2.				-	
3.4.				-	
	Subtotal			-	
	Total (1. + 2. +3.)			1.650.000,00	

The purchase an operation of a sawmill facility can or cannot be taken by the project developer, since local conditions are suited for consuming logs coming out from managed forests. Finally, the biochar machinery to process residues and other biomass, as follows:

	CDR -	Biochar to so	ils (2024-2030)	
1.	Pre operational expenses			Valor
1.1.	Planning (PIN and PDD)	1	50.000,00	50.000,00
1.2.	Biochar planning	1	20.000,00	20.000,00
1.3.	Biochar plant acquisition	20	30.000,00	600.000,00
1.4.	others			=
	Subtotal			670.000,00
2.	Fixed investments	Qtty	Value	Total
2.1.	Storehouse	1.200	400,00	480.000,00
2.2.	Reposition	1	200.000,00	200.000,00
2.3.	Maintenance	1		=
	Subtotal			680.000,00
3.	Initial capital			Value
3.1.				=
3.2.				=
3.4.				-
	Subtotal			-
	Total (1. + 2. +3.)			1.350.000,00

The application of biochar on soils is estimated at 8 ton/ ha, circa of 20 tCO2e/ha of carbon storage for periods way over 100 years. The project will generate jobs for estimating and monitoring carbon, in addition to guaranteeing the jobs of people working in the area. With carbon remuneration, the environmental quality of environmental goods and services in the region and properties is justified and guaranteed.

Global markets for environmental goods and services is to reach US\$ 5 trillion of international trade in 2030. With carbon estimates, conditions are immediately generated for recognition of the environmental quality of environmental goods and services. The carbon from properties can be used to improve other national production chains. In fact, the total carbon content of this project is being published on the PNBSAE, which serves a national and international audience of companies that invest in environmental quality as an ESG practice.

training/education associated with the introduction of new processes, technologies and

The project introduces modern concepts of forestry and Payments for Environmental / Ecosystem

products and/or the effects of a project on other industries Services - PES, for the cultivation and maintenance of forests for the production of wood and biochar, in secondary degraded areas, using genetically improved species of flora.

As a result, the project achieves high levels of annual increment and optimizes the profitability of the sites. This is a conceptual change in the cultivation of forest plantations in the sense of creating a modern, efficient and sustainable system for the production of wood and biochar with benefits that can be extended to the entire national territory, with implications for all forest science and practice.

The proposed technology transfer on plant propagation and tree rejuvenation with high quality propagules will have tremendous impact on tree yields and plantations management. The higher yields will bring more revenue to the farmers. The processing plants will produce high quality biomass and fetch higher prices.

-The tree orchards are currently being raised using traditional seedlings and therefore, plantations don't receive intensive care. This is the reason why the yields are low and unpredictable. Through the proposed activities (proposal) once high-quality scions are available in Tocantins state, it is possible to rejuvenate secondary degraded forests that are in different senile stages and farm management. -The youth women, and the under-privileged (differently abled) groups will have opportunity for training and capacity building on new technologies and develop entrepreneurship skills to undertake 'Nursery as Business' to produce high quality planting stock for raising new trees` plantations.

Production of industrial wood and residues for biochar with its application to soil involves a whole chain of direct and indirect jobs, creating more opportunities together with the expected increase on productivity while reducing external outputs dependency for land cultivation

Environmental strategy/ priorities of the Host Country / Sector Background Please describe the laws. regulations, policies and strategies of the Host Country that are of central relevance to the proposed project, as well as any other major trends in the relevant sector.

Brazil has constantly advocated in international forums for more adequate conditions for forestry and low carbon agriculture activities to be recognized as mitigating global climate change. The country is a Non-Annex I party, signed and ratified Paris Agreement in 2016. Within its NDC there are plans for AFOLU sector, which include Conservation, Sustainable Forest Management, reforestation, REDD+ and Forestry which include Improve Forest species; Promote reforestation and agro-ecology; Restore degraded lands; sustainable use of biomass and promote the technical fertility improvement and soil conservation.

To answer the call to raise ambition climate change, Brazil has undertaken to increase its mitigation objectives, to strengthen its adaptive resilience and to accelerate forestry, land tenure, land use, soils to contribute effectively to the fight against poverty.

.The project complies with all of the above strategies and goes even further, offering an innovative approach to the cultivation of forest species, contributing to supply society with high quality environmental goods and services.

Please in particular explain if the project is running under a public incentive scheme (e.g. preferential tariffs, grants, Official Development Assistance) or is required by law. If the project is already in operation, please

describe if	
ITMO/JI revenues	
were considered	
in project	
planning.	

B. Expected environmental and social benefits

C. Finance

Total project cost estimate	
Development costs	US\$ 315,000
Installed costs	US\$ 4,820,000
Other costs	US\$ 350,000
Total project costs	US\$ 5.5 million
Sources of finance to be	
sought or already identified	
Equity	xxxxxxx (in xx US\$million)
Debt – Long-term	xxxxxx (in xx US\$million)
Debt - Short term	xxxxxx (in xx US\$million)
Not identified	US\$million
Carbon finance contribution sought	US\$ 7.0 million (15 years, first period)
Carbon finance contribution	US\$ 7.0 million and a brief clarification
in advance payments. (The	This is the total amount needed for upfront investment on the full chain
quantum of upfront payment	of BiRCS project activity + another US\$ 1.5 million as capital to run the
will depend on the assessed	whole system. The costs of development, installation and running the
risk of the project)	AR-IFM, HWP, Biochar and SOC activities generate demand for
	capital in order to remunerate personal, raw materials and so on. The amount represents circa of 80% of the total estimates for the first 15
	years` period.
Sources of carbon finance	xxxxxxxxx
Indicative BiRCS, ITMO or	
THURSTIVE DIRUS HIVIU OF	LUS\$ 100 / tCO2e
	US\$ 100 / tCO2e
MCU Price (subject to	US\$ 100 / tCO2e
	US\$ 100 / tCO2e
MCU Price (subject to negotiation)	US\$ 100 / tCO2e
MCU Price (subject to negotiation) Total Emission Reduction	US\$ 100 / tCO2e
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement	US\$ 100 / tCO2e US\$ / € 1.198,800
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value	US\$ / € 1.198,800
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of	
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period)	US\$ / € 1.198,800
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years	US\$ / € 1.198,800 US\$ / € 19.2M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years)	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is available for the proposed	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is available for the proposed A6/VCM activity, provide the	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is available for the proposed A6/VCM activity, provide the forecast financial internal rate	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M
MCU Price (subject to negotiation) Total Emission Reduction Purchase Agreement (ERPA) Value A period until 2025 (start of the first budget period) A period of 15 years A period of 30 years A period of 45 years (3 * 15 years) If financial analysis is available for the proposed A6/VCM activity, provide the forecast financial internal rate of return for the project with	US\$ / € 1.198,800 US\$ / € 19.2M US\$ / € 38.4M US\$ / € 57.6M

expected A64ER/VER price above and US\$3/ tCO2e. DO NOT assume any up-front payment from the financer in the financial analysis that includes financer revenue stream.

Please provide a spreadsheet to support these calculations.

AFOLU - IFM (2023	-2068)
Opportunity cost	10%
NPV (n=5) US\$	2600794
NPV (n=6) US\$	3201512
NPV (n=5) US\$	780794
NPV (n=6) US\$	1381512
IRR (n=5)	22%
IRR (n=6)	22%
IL (n=5)	1,4
IL (n=6)	1,8
HWP	(
CDR - Industrial Timber	
Opportunity cost	10%
NPV (n=5) US\$	1441019
NPV (n=6) US\$	1773858
NPV (n=5) US\$	-208981
NPV (n=6) US\$	123858
IRR (n=5)	6%
IRR (n=6)	6%
IL (n=5)	0,9
IL (n=6)	1,1
Biochar to Soils	2 2020)
CDR - Biochar (2023	_
Opportunity cost	10%
NPV (n=5) US\$	1521759
NPV (n=6) US\$	1873247
NPV (n=5) US\$	171759
NPV (n=6) US\$	523247
IRR (n=5)	14%
IRR (n=6)	14%
IL (n=5)	1,1
IL (n=6)	1,4

Illustrative project categories and examples include:

Code	BiRCS
XX	Biomass Removal using trees and storage as HWP and biochar in soils
xxa	AR and IFM
xxb	HWP, Biochar
XXC	Building, RSU, SOC application
уу	Other