

Project Overview

413 Environmental, LLC (413) is a private US-based corporation that holds exclusive and long-term carbon credits and credit rights resulting from the active protection, conservation, and management of over 500,000 hectares of richly forested Amazon Rain Forest land in Brazil, which is subject to ongoing agricultural and livestock pressures. The Brazilian Government allows up to 20% of this land to be deforested and developed. 413 has long-term contracts with the Brazilian farmers and landowners of this ecologically critical land to ensure that they are paid to prevent the deforestation or development of the land in conjunction with international standards and best practices. The parcels are documented with the applicable Brazilian state governments. They are being protected from deforestation under a Verra REDD+ Avoided Planned Deforestation VM0007 methodology, and a feasibility study has been completed by the Nature Bank, a leading forest carbon consultant.

This project will preserve the ecological and economic benefits of primary forest on this sensitive land and provide a number of other unique community and conservation benefits consistent with virtually all of the 17 Sustainable Development Goals. Local farmers and impacted indigenous communities will receive a guaranteed payment of more than 2/3 of the credit price in order to provide capital to enable the local owners and stakeholders to live more sustainably and benefit from the numerous impact initiatives and facilities associated with the project, including the development of health and eco-community centers, development of an eco-trail, research on flora and fauna supporting local universities, and the creation of sustainable employment for community members through the creation of new jobs, a majority of which are anticipated to be filled by women and indigenous peoples. The project is being implemented as a Gold Level project given its superior adaptation, community, and biodiversity benefits, which are summarized below.

BENEFIT	DESCRIPTION
Conservation and avoided deforestation	Conservation of > 500,000 hectares (ha) of primary, ancient, and undisturbed dense tropical rain forest and a small tract of unique pioneer vegetation and avoiding conversion of > 100,000 ha of forest to pasture by planned deforestation.
Climate mitigation	GHG emission reductions > 60,000,000 tCO ₂ e over 30-year project life; annual average of > 2,000,000 tCO ₂ e/year in first 10-year crediting period.
Community and indigenous benefits	Promotes the welfare of ~ 1,500 traditional community residents and indigenous peoples by improving infrastructure, education, health, housing, water, energy, communication, community organization, empowering young women, youth, and elderly, and encouraging sustainable use of natural resources. Supports special community research and development projects. Project implemented in and around poor and lower income communities in the areas of: RDS Rio Madeira, RDS Juma, Flona Aripuanã, and APA Campos de Manicor; close to four indigenous communities and reserves, with strong tradition and involvement in managing their resources.
Regional impacts, private and public sector cooperation, and capacity building	Expands private sector actions in conservation by creating connection between REDD project area and official public natural reserves (UCs), indigenous lands, and other protected areas in the region, reducing region-wide threats of deforestation/degradation.

<p>Species and habitat protection</p>	<p>Protects hundreds of species of flora and fauna, including endangered species and their habitats. Includes protection of Rosewood tree (<i>Aniba rosaeodora</i>, endangered), Brazilian-nut giant tree (<i>Bertholletia excelsa</i>, critically important to the community), Black-faced black spider monkey (<i>Ateles chamek</i>, endangered), Belem curassow bird (<i>Crax pinima</i>, critically endangered), and Amazonian giant pirarucu fish (<i>Arapaima gigas</i>, very important to the community). Supports research and other projects studying these five key species and conservations actions.</p> <p>Exceptional biodiversity benefits through the protection of >500,000 hectares of undisturbed rainforest in a zone classified as extreme high priority to conservation by the Brazilian Government.</p>
<p>Climate Adaptation</p>	<p>Systematic analysis of data, monitoring the effects of regional and local climate changes on the local households living close to the project area (traditional, settled, and indigenous), and promotes environmental, climate change and sustainability education/training and employment.</p>
<p>Training and Capacity Building</p>	<p>Total number of community members who are expected to have improved skills and/or knowledge resulting from training provided as part of project activities: 300</p> <p>Number of female community members who are expected to have improved skills and/or knowledge resulting from training as part of project activities: 200</p>

The Amazon Rainforest

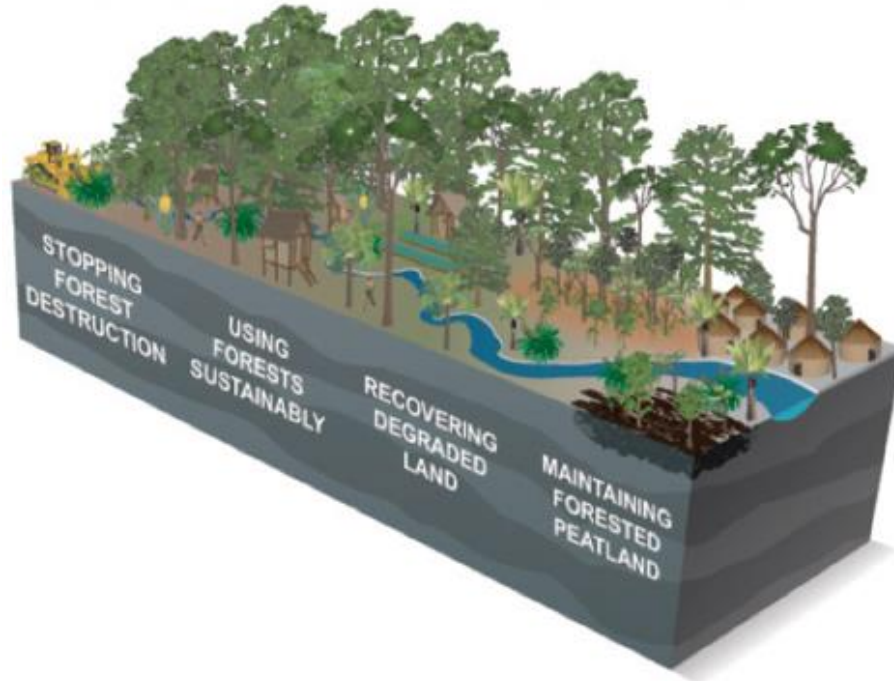
According to the Wildlife Conservation Society, the Amazon is home to myriad species, including more than 30,000 plants, 2.5 million insects, 2,500 fish, more than 1,500 birds, 550 reptiles, and 500 mammals. In the absence of this project, these species and their ecosystems are all at risk. The Amazon is the largest and most diverse tropical rainforest on Earth, covering a staggering 5.5M km². It accounts for more than half of the planet’s remaining rainforest and is home to more than half the world’s species of plants and animals. Roughly one-third of the world’s primary forests are housed in the Amazon basin, which accounts for roughly 90 to 140b tonnes of CO₂e being removed from the atmosphere annually.

What Is REDD+?

REDD+ is a United Nations-backed framework that aims to curb climate change by stopping the destruction of forests. REDD+ stands for "Reducing Emissions from Deforestation and Forest Degradation." The "+" signifies the role of conservation, sustainable management of forests, and enhancement of forest carbon stocks. REDD+ helps countries value their forests' carbon and ecosystem services and create financial incentives to reduce deforestation, reduce degradation, and promote sustainable management. The credits from the 413 projects originate from avoided deforestation and preservation land agreements with local land-owning farmers until the year 2050 in the Brazilian states of Amazonas, Acre, Goias, Mato Grosso, and Para.

REDD+

REDD+ helps to mitigate climate change through forests, and provides social and environmental benefits. It includes these essential components: creating incentives for not clearing standing forests, maintaining and expanding forest cover, sustainably managing forest and recovering degraded lands.



How Does REDD+ Work?

REDD+ provides a direct mechanism for the market to incentivize and reward forest conservation and wildlife protection by paying for greenhouse gas emissions reductions that result from effective forest conservation and avoided deforestation.

Professional Validations

413 Environmental, LLC has received two legal due diligence reports regarding the material aspects of the land ownership, carbon credit rights, government regulations, contracts to reduce deforestation, and a 30-year preservation commitment to sustainable management from both a national US law firm, Carlton Fields, as well as a major Brazilian law firm, Vieira Rezende. The following entities are involved in the quantification, validation, verification, and issuance of the 413 verified carbon credits.

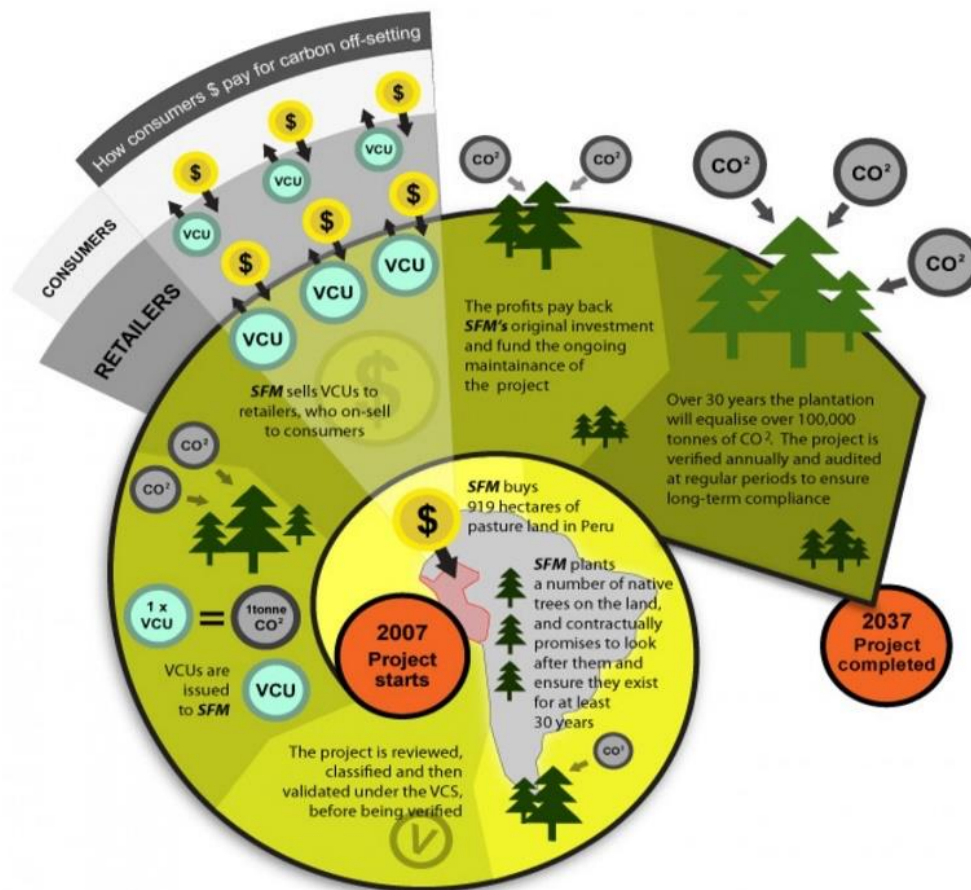


Paris Agreement and the Sustainable Development Goals

The Paris Agreement under the United Nations Framework Convention on Climate Change mandates net-zero emissions before 2050 and urges global warming to be kept to below 2 degrees Celsius, and preferably below 1.5 degrees Celsius. The role of carbon pricing and emissions trading in achieving this goal is integral, and climate markets and REDD+ are part of the Paris Agreement. The private sector, including corporations and financial institutions, are also taking on voluntary climate targets and participating in carbon markets to assist in meeting the Paris goals. There is also an increasing focus on private sector participation in the UN's Sustainable Development Goals (SDGs), with programs such as Verra's SD-Vista offering frameworks for clear reporting on how REDD projects support the 17 goals. Additionally, many voluntary carbon market participants have expressed demand for SDG integration into REDD project development. 413's Aripuanã project facilitates virtually all of the 17 SDGs.

Life-cycle of a carbon offsetting project

Illustrated here is a simplified life-cycle of a real carbon offsetting project, which has been verified under the VCS. When you pay to offset a tonne of carbon by buying VCUs, you're retrospectively funding the project and providing for its long-term maintenance.



VCU - Verified Carbon Unit
VCS - Verified Carbon Standard
SFM - Sustainable Forest Management Ltd (project operator)

Questions/Additional Information - Contact Jay@FourThirteenLLC.com

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**Verified Carbon
Standard**

A VERRA STANDARD



**Climate, Community
& Biodiversity Standards**

A VERRA STANDARD



VERRA Project ID# **2586**