



Planeta Verde
presents

CO₂ Tropical Trees

La Pedregoza, Vichada, Colombia

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Plantación Amazonia el Vita S.A.s.

NIT: 900.154.991.1

PLANTING TROPICAL TREES TO SEQUESTER CARBON



Tropical trees account for 95% of tree-based carbon capture on our planet. Some species are more efficient than others. Best results for carbon removal can be achieved with introduced species such as *Acacia mangium*, *Eucalyptus pellita* and *Azadirachta indica*.

These trees will capture on average some 22.6 kg (50 lbs) of carbon per tree per year in the first 10 years of their lives. Approximately 50% plus of the woody biomass of a tropical tree is composed of carbon as a result. These trees also deposit carbon into the soil, which is beneficial for land reclamation and for other species that may be planted later on.

All of them are considered land reclamation species, because they can provide positive environmental services, like nitrogen-fixing in the soil, erosion control and ground water retention. They will grow in infertile and poor soils, and have been proven effective in absorbing pollutants other than CO² from the atmosphere and the soil.



CARBON OFFSETS... TROPICAL TREES... CO² CAPTURE... CLIMATE CHANGE...

How much Carbon is Captured?

1,000,000 million tropical trees on 1,000 hectares can remove as much as 200,000 metric tons of carbon from the atmosphere every 10 years.

CO₂ Tropical Trees operates on a 10 year and a 15 year cycle. The reason for this is that introduced tropical trees are most effective at carbon capture during the first 10 years of their lives, after which their effectiveness declines rapidly. As a result CO₂ Tropical Trees removes

introduced species after 10 years and replants, in order to maintain the efficiency of the CO₂ sequestration. In comparison, native tree species capture carbon at a slower annual rate, but are most effective at carbon sequestration in the first 15 years of their lives, after which their effectiveness declines significantly. We use conservative calculations to ensure the most authentic results. The table below offers some idea of the effectiveness of both introduced species and native tree

species, assuming a 50% cull of the trees at the end of year 6 of their respective cycles, which is done to eliminate infirm or poor trees and to allow the rest to grow more rapidly. We use averaging for our calculations, as the CO₂ capture that occurs in year 1 is obviously a lot less than what occurs in year 5. It is important to point out that when trees are removed and we replant, the removed wood holds the carbon for decades in its biomass when used for building materials or furniture.

CARBON CAPTURE BY TROPICAL TREES

Introduced 10 year cycle	Number of Trees Years 7 to 10	Annual KG of Carbon Per Tree	Average KG captured p.a.	Total Captured in 10 Years
Number of Trees Planted				
1,000	500	22.6	18,080	180,800
10,000	5,000	22.6	180,800	1,808,000
100,000	50,000	22.6	1,808,000	18,080,000
1,000,000	500,000	22.6	18,080,000	180,800,000
5,000,000	2,500,000	22.6	90,400,000	904,000,000
Native Trees 15 year cycle	Number of Trees Years 7 to 15	Annual KG of Carbon Per Tree	Average KG captured p.a.	Total Captured in 15 Years
Number of Trees Planted				
1,000	500	18.4	12,880	193,200
10,000	5,000	18.4	128,800	1,932,000
100,000	50,000	18.4	1,288,000	19,320,000
1,000,000	500,000	18.4	12,880,000	193,200,000
5,000,000	2,500,000	18.4	96,600,000	966,000,000

Unprecedented Value makes our Pricing the best CO² Offset solution for you.

We only charge \$3,000 CoP (\$1.70 USD) per introduced tropical tree species and a mere \$5,000 CoP (\$2.80 USD) per native tree species that we plant for you. Our prices include seed costs, nursery, insecticide, 3 fertilizations, soil preparation, deep ploughing, lime

Plant carbon offset trees for as little as \$3,000 CoP each!

to balance pH and planting. We also include 10 years of maintenance and care, such as fire breaks, regular inspections and annual pathology. It

also includes replanting after the 10 year and 15 year removal, financed from the sale of the removed timber. Any special certifications are at the expense of the client. You simply won't find a better deal anywhere in Colombia. And of course we invite you to film the trees for your promotional needs.

CO₂ Tropical Trees Program!

We plant tropical trees as a biological means of sequestering CO₂ from the atmosphere, fighting desertification of our planet due to deforestation, and for the purpose of expanding wildlife habitat and conserving bio-diversity. This is accomplished by having business and consumers fund the planting of tropical trees for the purpose of offsetting their carbon footprint. Depending on the size of the offset required, we can plant the number of tropical trees that capture on average the amount of emissions the client seeks to offset. This process can begin with a smaller number of trees and can then be done annually to eventually meet the client's requirements. We work on 10 and 15 year cycles to achieve the greatest possible CO₂ efficiency.



10 Years of Care



Tree Nursery and Soil Preparation at La Pedregoza Plantation

Partners and Friends

Thanks to our strong business and environmental commitment, we have forged several valuable alliances, in part due to our establishment of a natural reserve.

This has been achieved, in part, because we created the 1,000 hectare *Reserva Natural La Pedregoza* for the conservation & preservation of Orinoco River basin flora and fauna. Our first important partners were the *Omacha Foundation* of Bogotá, D.C., with whom we have worked since coming to Colombia. We have also partnered with the *Faculty of Agricultural, Life and Environmental Sciences* at the *University of Alberta* in Edmonton, Canada, for the purpose of encouraging scientific study in Vichada. The University of Alberta

completed one study in June 2011 and they are preparing another to start in early December 2011. We are proud to be one of 3 featured plantations in Europe's largest tree planting web portal, *Tree-Nation* of Barcelona, Spain. All of our affiliations are designed to improve the quality of reforestation work we do, while making sure that we are environmentally sustainable at the same time. The following local registrations are pending:

We are partnered with the **UN 2011 International Year of Forests**, and also with the **UN 2010 International Year of Bio-diversity**.



We are *Corporverde* members, a Medellín NGO dedicated to Vichada afforestation.

Please call us for more information and details at +1-780-628-7281

Corporinoquia & Instituto Colombiano Agropecuario.

CERTIFICATION

There are as many certification programs as there are clients. This makes it impossible for *CO₂ Tropical Trees* to provide every possible certification a client may want. As a result, we instead assist clients who may require a specific international certification to obtain the same, or we can suggest a certification that meets Colombian standards. As of now we operate on the voluntary carbon market.

In Colombia call us for more information at

(1) 704-6852



Locations:

Our plantation is located 58 km SW of the Orinoco port city of Puerto Carreño, in the departamento of Vichada, in Colombia.

The local name of the plantation is La Pedregoza.

We also maintain administrative offices in Bogotá, D.C., in the *Colina Campestre* district of the city.

Our various day to day plantation management activities are handled from Puerto Carreño.

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Preserving Colombia's amazing Bio-diversity

We have a native tree species program. This program involves collection of seeds and the germination and propagation in plantation settings. To the best of our knowledge we are the only commercial plantation in Vichada to plant native tree species.

CO2 Tropical Trees works with the Reserva Natural La Pedregoza, which has rain forest, gallery forest and inundation forest.

Native trees tend to capture carbon at a slightly slower rate, on average around 18.4 kg per tree per year (40 lbs), but do so extremely well with proper fertilization and care. They can be planted in low lying areas unsuitable for other species. Native trees are equally effective at pollutant removal other than CO2 from the air and the soil. They are a very important element for protecting Colombia's amazing bio-diversity. Many species are niche dependent on native trees for survival. Over 90% of terrestrial bio-diversity lives in the world's forests.

We use fertilizer developed for forestry use in Vichada soils.



Tropical Trees are one of the best natural ways to offset CO² Emissions.

Who are we?

Plantación Amazonia el Vita S.A.s. is the Colombian subsidiary of *Planeta Verde Reforestación S.A.*, a Panama and Costa Rica registered reforestation enterprise. The owners are a Canadian family with past reforestation experience in India, where they operated a plantation from 1995 to 2009, and in Costa Rica, where they grew teak trees. In 2007, the family decided to plant tropical trees in the Orinoco River basin of Vichada, Colombia. Some 3,100 hectares of land was purchased along the banks of the *Rio el Bita* in Vichada, and *Plantación Amazonia el Vita S.A.s.* was established for all Colombian operations.

The business uses the CO2 Tropical Trees brand name for the marketing of its carbon offset program. The program plants tropical trees for the purpose of offsetting CO2 emissions. This program is based on reputable scientific facts and the need to provide viable carbon offset solutions to business and consumers alike. Our management team is composed of professional people from a variety of disciplines and origins. All of us are dedicated to providing quality outcomes in the struggle against climate change and deforestation.



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