

Sawdust – Brazil

Switching to renewable biomass fuel



Résumé

Background

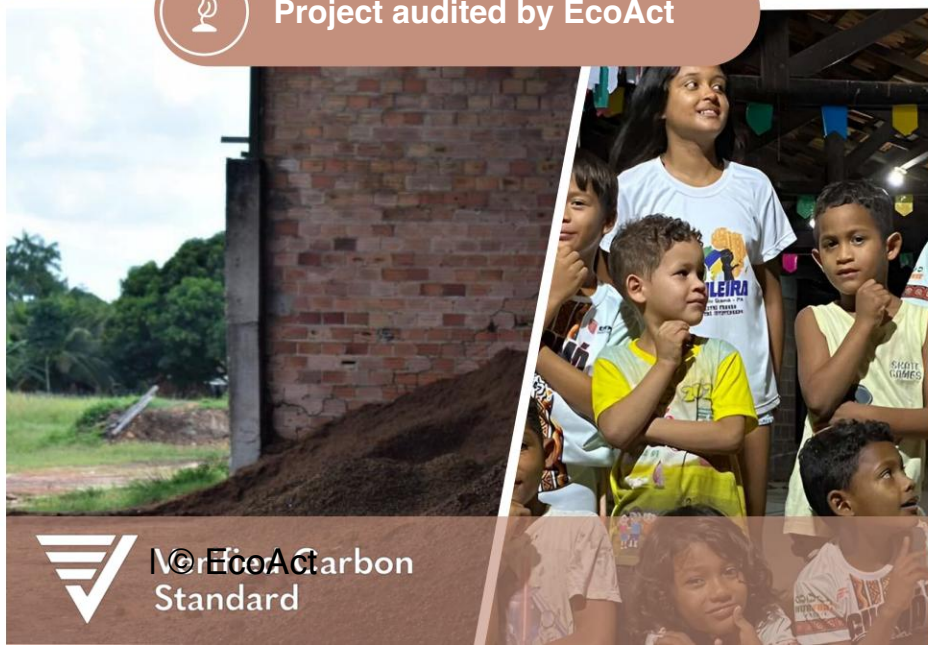
Many companies, such as Cenol and Telha Forte Ceramics, **use native wood from the Amazon biome** to make their ceramic utensils. In Brazil, **brick manufacturing requires 45,000 tons of wood** per year, and this exploitation **contributes significantly to the deforestation of the Amazon rainforest**. Covering an area of approximately 7 million km², the Amazon biome is home to a wide variety of flora and fauna. Currently, the forest on land **is being destroyed by uncontrolled deforestation**. Without proper care, vast wildlife areas and historic centers of species are at risk **of disappearing forever**.

Description The

Serragem project has developed **a new design of biomass bricks with two factories located in the municipality of São Miguel do Guamá in Brazil**. Concerned about reducing their impact on the environment, these companies have chosen to **use biomass residues based on Acai seeds and sawdust**, thus reducing pressure on the native forest and protecting biodiversity. In addition, the project focuses on the social impact of these plants and **the benefits they can bring to local communities**.



Project audited by EcoAct



Project type:

Switching to renewable biomass fuel *Avoidance*



Methodology:

AMS-IE – Switching from non-renewable biomass energy to user-driven thermal applications



Credit generation period: 2007 - 2017



Average tCO₂/year: 57,729 tCO₂e

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Specific contribution of the project



Sustainable Development Goals

3 GOOD HEALTH AND WELL-BEING



Supports a **center of rehabilitation for drug addicts and alcoholics** ;
Donations to cover costs medical services for residents suffering from serious illnesses;
Supports a group of capoeira with the aim of integrating children from **neighborhoods vulnerable** with good notes.

8 DECENT WORK AND ECONOMIC GROWTH



Job opportunities: **220 employees work in the ceramic factories** , including 10% are from groups **socially excluded**; **Opportunities training** : Rooms specific for training employees have been arranged in the companies.

13 CLIMATE ACTION



Launched in 2007, the project has already allowed to reduce by **577,290 tCO2 during its 10 early years operating** and should allow to avoid **318,780 additional tCO2 by 2027** ;

15 LIFE ON LAND



1,773 hectares of forests are protected thanks to the replacement of wood with renewable biomass. At Approximately **2,166 tonnes of biomass residues by months** are used, which constitutes a resource free and accessible avoiding deforestation activities.



Sawdust, Brazil



Chênex – Haute Savoie

LBC Large Crops Project



LABEL BAS CARBONE

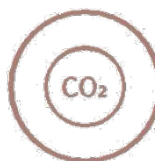
Summary of the project

Olivier, located in Haute-Savoie **90 km from Chamonix**, grows wheat, corn, sunflower, onions and potatoes on nearly 50 ha, in addition to its 15 ha of grassland.

Olivier wishes to continue improving the resilience of his farm, and to evolve his practices.

- ▶ **Optimization of fertilization** : more systematic provision of digestate as a substitute for mineral fertilizer, added to a more precise monitoring of its remaining nitrogen.
- ▶ **Installation of intermediate cutlery** : install cutlery on its plots, particularly in front of its potatoes. In addition to allowing soil nourishment and limiting erosion, these covers are key for biodiversity, and notably host polinisers.

KPIs & benefits



108 teqCO2 avoided or sequestered in 5 years thanks to this project of Great Cultures



This project is being **assembled**



Reduces **emissions of ammonia 10%**, source of pollution of the air with fine particles



Reduced by **35%** the phosphorus **intakes mineral**, resource not renewable (from mining extraction)





Frangy – Haute Savoie

LBC Large Crops Project



LABEL BAS CARBONE

Summary of the project

The GAEC Les Chardonnerets brings together 4 farmers of different generations on **185 ha** with 99 ha of crops in rotation. This dairy farm located in Frangy (74) 100 km from **Chamonix emblematic of the region with 130 Montbéliarde breed cows.**

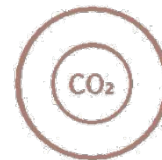
They implement different **ways to reduce** greenhouse gas emissions and **increase carbon storage, such as:**

- Introduce cereals and protein plants harvested as whole plants
- Increase the **intake** of organic fertilizers - **Develop plant cover**



This project is located on an organic farm, so **without pesticides!**

KPIs & benefits



235 teqCO2 avoided or sequestered in 5 years thanks to this project of Great Cultures



This project is being **assembled**



Reduces **risks of soil erosion**, thanks to the reduction of the soil work and at plant covers



Reduced by **78%** the phosphorus **intakes mineral**, resource not renewable (from mining extraction)

ODD

