

Kamiranga's Contribution to Sustainable Development Goals

3 - GOOD HEALTH AND WELL-BEING



7 - AFFORDABLE AND CLEAN ENERGY



8 - DECENT WORK AND ECONOMIC GROWTH



9 - INDUSTRY, INNOVATION AND INFRASTRUCTURE



13 - CLIMATE ACTION



Project Description

Kamiranga is a ceramic factory producing bricks located in northern Brazil, in the municipality of São Miguel do Guamá (PA). In the past, the factory used native Amazon firewood as fuel to produce its ceramic pieces. In order to change this situation, in 2007, the factory switched to fuelling its kilns using exclusively renewable fuels, such as açai seeds and sawdust. The switch to renewable fuels created reductions in atmospheric Greenhouse Gas (GHG) emissions, and enabled Kamiranga to participate in the international carbon market. Today, Kamiranga factory generates carbon credits, and it reinvests the income from carbon credit sales into modernizing the factory and into benefits for the workers and the local community.



Social Benefits

- **Community development:** Construction of headquarters for the Association of rural açai producers and of a Professional Education Centre in the municipality. Construction of an alternative road for easier access of trucks.
- Donation of over 13,000 bricks to local institutions and community members.
- **Workers' wellbeing:** Construction of lecture hall, bathrooms, refectory and barbecue.



Environmental Benefits

- **Reforestation:** Planting of *Acacia mangium* seedlings.
- 100% renewable biomass: Use of açai seeds and sawdust as fuel.
- Waste management: **Reuse of waste products** in the production process as well as defective pieces to fill potholes in local roads.



Social Benefits

- New markets created for local biomass suppliers.
- Increased financial resources for socio-environmental investments, thanks to credit sales.
- **Quality in the ceramic factory:** Laboratory built for analysis of product quality.

Kamiranga Contribution to Sustainable Development Goals (SDG) by ONU

Project Highlight



DEVELOPMENT OF SMALL COMMUNITIES

Located next to São Pedro de Tucumandeua, Kamiranga factory contributes to the development and improvement of quality of life in this small community. Sr. Sizico, Kamiranga's owner, says, "we have worked with the neighbouring community, the main action we undertook was building biological toilets in the place of standard toilets in all the houses. Today, we see that the community's health has improved, very rarely do we hear of people falling ill because of poor sanitation". Maria José, a community resident, joined by her two daughters, tells us, "Kamiranga built our bathroom, things improved greatly, as we weren't able to do it ourselves. They helped me a lot". "The carbon project brought many benefits in terms of what we learnt and how we think. Today, we realize that sustainability is of the utmost importance", concludes Sr. Sizico.



SDG 3: Good health and well-being

- The ceramic offers Personal Protective Equipment (PPEs) and its rigid about the use of the PPEs.
- The factory has all the mandatory programs of work safety
- The ceramic has an engineer that goes once a week to ensure best practices



SDG 7: Affordable and Clean Energy

- The factory uses Biomass as fuel to produce ceramic pieces instead of native wood
- High efficient Kilns in the production process



SDG 8: Decent Work and Economic Growth

- Improvement of working conditions for the employees and the strong health and safety practices in the factories



SDG 9: Industry, Innovation and Infrastructure

- The ceramic company built an alternative road for easy access of the trucks and to avoid it going where the population is



SDG 13: Climate Action

- By changing the fuel from native wood to biomass the project ceramic became a Carbon Neutral Project
- Protection against deforestation of Amazon Biome



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THIS PROJECT
ALREADY SAVED
109 HECTARES
OF AMAZON BIOME

THIS PROJECT HAS ALREADY
REDUCED THE EMISSION
OF
351,250 tCO₂e
ON THE COURSE OF 10
YEARS

AND WILL AVOID MORE
298,280 tCO₂e
ON THE FOLLOWING 10
YEARS

Location

São Miguel do Guamá/ PA,
Brasil

Project Type

Renewable Biomass

Ecosystem

Amazon Rainforest

Project Status

Verified
(7th Monitoring period)

DOE

Earth Hood, Bureau Veritas,
TÚV Nord; TÚV
Rheiland; URS; Ibope

[Video](#)

[Registry](#)

[Markit™ Enviromental](#)

Standards

VCS + SOCIALCARBON®

