

CEARA RENEWABLE ENERGY BRAZIL

**Promoting sustainable supply chains
in ceramics factories**



Through this project, several small ceramics factories in Brazil have switched their fuel production from native forest wood to more environmentally friendly sources, such as agricultural and industrial biomass residues. The carbon credits revenue is reinvested in social, environmental and economic benefits for workers and the community.

The Context

For decades, these ceramics factories in Brazil have used native wood to fire their kilns. The use of this type of non-renewable biomass is common practice in the industry, releasing harmful greenhouse gases and causing deforestation.

The Project

Under the project, factory owners have started sourcing fuel from renewable biomass such as cashew nut shells and residues, coconut husk, and are sourcing wood from areas with sustainable forest management plans. Today, 100 percent of fuel at these ceramic factories comes from local agricultural waste and forestry residues. The factories have also acquired new equipment which allows for the efficient use of renewable biomass as fuel.

The Benefits

By sourcing fuel from renewable biomass, the project reduces greenhouse gas emissions, preserves endangered plant species and reduces illegal logging for firewood – a major cause of deforestation in Brazil. The project has also produced investments in automatic biomass feeding systems, which reduce direct contact with hot temperatures and improve working conditions. The factories now employ a large number of women, which promotes gender equality. Sustainable manufacturing projects like this one are vital in helping Brazil's rapidly developing economy move towards more renewable energy sources.

This project alleviates deforestation, mitigates greenhouse gas emissions and improves working conditions.



Gold Standard



**4,500,000
USD**

of income generated for local communities through employment opportunities



**219
employees**

benefiting from improved working conditions



**36,173
tCO₂e**

mitigated on average annually by avoiding the use of fossil fuels



**1,750
ha**

of forests saved over the course of ten years; the equivalent of 1,400 soccer pitches

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: Ceara Renewable Energy Bundled Project | **UNFCC/markit/VCS link:** http://mer.markit.com/br-reg/public/project.jsp?project_id=103000000001888