

La biomasse plutôt que le gaz pour la chaleur de la fabrique de papier



Chaudière à biomasse de Improvements Papers dans son usine de pâtes et papiers à Caieiras, Sao Paulo, Brésil.

This project decreases CO₂ emissions by installing a biomass boiler instead of a gas boiler to meet the heat demands of a new paper machine at a pulp and paper mill in Caieiras, Sao Paulo, Brazil. With the project, the use of ash as fertilizer in agriculture and forestry as well as the implementation of alternative ways to give value to biomass residues such as sludge from the pulp and paper production are being promoted, and local jobs are being created.



833

GWh d'électricité produite

46

emplois générés

91

millions m³ de gaz naturel évités

The mill produces around 100,000 tons of tissue paper articles such as hygienic paper, paper handkerchiefs, paper towels and napkins per year. Heat is a vital part of every pulp and paper production process and therefore a constant heat supply is essential for the mill to remain competitive.

Type de projet:

Biomasse

Site du projet:

Caieiras, Brésil

Statut de projet:

Opération, certificats disponibles

La réduction CO₂ annuelle:

48,544 t

Situation sans projet

Natural gas plants that emit CO₂ emissions

Standard de projet

Gold Standard[®]

VER

Impressions



De la sciure de bois empilée (à l'arrière) et des bûches de bois sont prêtes à être déchetées et mélangées aux résidus de biomasse afin d'être introduites dans la chaudière à biomasse.



Résidus de biomasse stockés provenant d'activités forestières (arrière-plan) et boues provenant des procédés de l'usine, prêts à être mélangés puis envoyés à la chaudière à

The biomass boiler will be fed with renewable biomass and biomass residues from external agriculture, forestry and related industries, and with biomass residues from the mill's own production process, some which are otherwise stockpiled.

The project helps with the promotion and use of innovative clean and efficient technologies as it is a show case for the rest of Brazil. It generates local income and promotion of employment opportunities in local communities due to the construction and maintenance of the plant; the collection, transport and sale of biomass residues; and services associated with the management of biomass residues. Moreover it helps to valorize regional biomass excess thereby helping avoid emissions from uncontrolled burning of these residues and also reducing the risk of forest fires.

The additional money from carbon finance is required as the project can be considered as first-of-its-kind since it is the first boiler that is able to burn sludge from the pulp and paper industry in Brazil. This has significant impacts on the design of the boiler, the required maintenance, the emission treatment system (enhanced) and the handling and mixing of the biomass fuel mix and it means that it has a higher probability of malfunctioning in comparison with a standard biomass boiler. Carbon finance will also be used for the building of a renewable energies educational center at the mill available to employees and community members.

biomasse.



Résidus de biomasse issus d'activités forestières mélangés à des boues issues du processus de production de l'usine



Point d'entrée de la biomasse mélangée dans la chaudière à biomasse.

Le projet contribue à 6 ODD :



R\$ 172 329 Revenu du carbone pour le développement social.



102 personnes formées.



833 GWh d'électricité thermique produite.



46 emplois générés.



91 957 146 m³ de gaz naturel évités.



Investissement dans le projet.