

VALORISATION DES DÉCHETS DE LA FILIÈRE ANACARDE COMME UNE SOURCE D'ÉNERGIE RENOUVELABLE POUR LES PMES AU BURKINA FASO (CASHEW AS A SOURCE OF RENEWABLE ENERGY FOR SMES IN BURKINA FASO)

BACKGROUND

The recovery of waste of the cashew industry [currently about 2 000 tonnes / year, with a potential of 15,000 tons / year] is a sustainable alternative to the use of wood for domestic and industrial needs. Biomass briquettes cashew waste used as domestic fuels in boilers or industries have value non-negligible energy of about 4130 kcal / kg¹¹ while that of such wood is 4018 kcal / kg [Pradhan et al., 2009]. The energy point of view the timber may be replaced by briquettes.

To promote sustainable production systems, the project aims to encourage the use of alternative sources such as fuel briquettes, work with the government to introduce an incentive mechanism, such as a tax exemption of the price of briquettes made from agricultural waste, such as cashew cake, for a specified period as may facilitate the introduction of this alternative for SMEs. This alternative will reduce production costs of SMEs. In the energy chain, this energy source integrated waste management, which contributes to reducing emissions of greenhouse gases.

OBJECTIVES

The main objective is to contribute to the reduction of conventional fuels by substitution of wood with a renewable fuel for SMEs in Burkina Faso through recycling of cashew waste as fuel in the form of briquettes and by the production of thermal energy targeting the SMEs particularly in Bobo-Dioulasso, operating in agribusiness, using conventional biomass for thermal energy.

ACTIONS

- » Develop and optimize the production of briquettes from waste cashew
- » Carry out technical and economic studies on the use of briquettes burning in boilers of SMEs will be carried out.
- » Substitution of wood for briquettes
- » Identification of SMEs interested in substituting wood
- » Development and testing of alternative calculations
- » Dissemination of information about the briquettes
- » Making briquettes accessible for SMEs
- » Analysis of the rational decision-making on the sustainable use of briquettes

FONDATION 2IE

PARTNER:

Stitching Woord en Daad

LOCATION:

Burkina Faso

Budget



\$169,888. 00

Timeline



30 Months