

MISSION SHEET 05/2020

Biomass briquettes factory from wood waste

Division	Waste/Bio energy
Section	Technical Study
Sponsor	WWF Belgium & WWF Bolivia
Publication date	08/05/2020
State	Urgent

Context

WWF is supporting several initiatives to rehabilitate areas impacted by the major fires of summer 2019 in the Amazon, not only in Brazil but also in Paraguay and Bolivia. In particular, WWF Belgium supports WWF Bolivia for its rehabilitation actions in the Monte Verde area near Santa Cruz de la Sierra ("Amazon Hope" project). WWF is also planning to carry out a pilot project there aimed at recovering calcined and green wood waste (left in the forest after felling trees for sawmills) in the form of briquettes for use as green fuel. An inventory of calcined and green wood resources is being carried out, as well as an estimate of the market for briquettes (heating, cooking, BBQ, etc.).

Mission

WWF Bolivia asked ISF for a technical study and field mission to design and implement an experimental mini factory of briquettes from calcined and green wood waste close to Concepcion town (Monte Verde, Bolivia) where most of the indigenous communities are settled:

- Formulation of the briquettes, e.g. proportion of calcined wood/green wood, requirements in terms of drying.
- Definition of the best suitable compaction machine and energy supply required
- Definition and sizing of a pilot plant: technical proposal and cost estimate
- A field visit could follow based on the report findings

Applications should be sent to: pponcelet@isfbelgique.org

Characteristics

Durée mission	3 months
Réurrence	One time mission, but an extension could later be agreed
Localisation	Belgium with regular interactions with WWF Bolivia
Pré-requis	Knowledge of English is a must. Knowledge of Spanish is a plus as well as previous experience in forest waste recovery projects & techniques.
Délivrables	Technical proposal and indicative cost (investment and operations)
Deadline	ASAP

Available Documents & Tools

ISF's previous experience in the production of briquettes from banana peelings in Rwanda