

## MISSION SHEET 2021/02

### Biomass briquettes production from charcoal

<b>Division</b>	Waste/Bio energy
<b>Section</b>	Technical Study
<b>Sponsor</b>	WWF Belgium & WWF Bolivia
<b>Publication date</b>	14/04/2021
<b>State</b>	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.).

In 2020, ISF worked with WWF Bolivia and proposed a technical design (incl. user manual) of a simplified carbonizer to produce charcoal from logs and waste wood. The idea to produce charcoal has gained acceptance by the indigenous communities at Concepcion town (Monte Verde, Bolivia)

#### MISSION

WWF Bolivia is pursuing its study and asked ISF for a technical study to describe and help select a simple production of briquettes from charcoal (design and operation).

Recommendation on how best to:

- Grind the charcoal
- Blend the charcoal powder with the selected binder (incl. the identification of an adequate binder)
- Press the blend into briquettes

**Applications should be sent to:** [candidatmission@isfbelgique.org](mailto:candidatmission@isfbelgique.org)  
**and to** [pponcelet@isfbelgique.org](mailto:pponcelet@isfbelgique.org)

#### CHARACTERISTICS

<b>Mission duration</b>	2-3 months (April to June 2021))
<b>Recurrence</b>	One time mission, but an extension could later be agreed
<b>Localization</b>	Belgium with regular interactions with WWF Bolivia
<b>Prerequisites</b>	Knowledge of English is a must. Knowledge of Spanish is a plus as well as previous experience in forest waste recovery projects & techniques.

**Deliverables** Technical proposal and operation manual and indicative cost (investment and operations)  
**Deadline** End of June 2021

### **AVAILABLE DOCUMENTS & TOOLS**

ISF's previous experience in the production of briquettes from organic waste (banana peelings) in Rwanda

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