

## Project title : JATRO - Waste characterization study of the Jatropha JMI factory in Kita and comparison of technical potential for energy recovery

Project place	Project cost	Role in the project	Technical and financial sponsors	Dates
Mali	4 700 €	Expertise in energy recovery of waste	JMI-SA - Jatropha Mali Initiative	February 2017 - May 2017

### Project's goals and results

#### Main goals

Consider the use, with possible adaptations, of an energy recovery system based on the achievements of recent projects led by RONGEAD, in terms of pyrolysis, combustion and gasification

#### Specific objectives

- Characterize the waste and their energy potential
- Conducting a series of experiments to evaluate the effectiveness of the device, to measure, if any, the changes to be expected compared to the basic model

#### Beneficiaries

The processing plant

#### Results

**R1.** Report of experiments and analyzes of the results on the characterization of the energetic potentials of the waste and the results of the comparative tests of the tests carried out in combustion or pyrolysis / gasification

**R2.** A technical and financial proposal for a custom installation by RONGEAD and its partners including a training option for local professionals for the maintenance of the installation

#### Activities

**A1.** Characterization of fuels thanks to the bibliographical study, the study of the experiments carried out as well as tests of characterization of the materials starting from capsules and cakes of jatropha sent to Burkina Faso

**A2.** Comparative experiments on the energy recovery of waste using comparative thermal evaluation tests that vary the mix with other biomasses.

**A3.** At the end of this experimental cycle, a selection will be made on energy recovery devices that best meet the needs emitted

**A4.** Conception of a technical and financial offer for an installation *in situ* of valorization of the waste of the factory supplying a boiler usable for the process of the unit