

# Fire Husk Machine (Rice Husk Briquettes Production Equipment) [ KANSAI CORPORATION]

## < Description of Technology >

Rice Husk Briquettes Production Equipment compresses the rice husk volume to about one tenth and process it into rod-shaped briquettes so that they can be easily stored and transported.

[Facility, Device or Equipment]

Rice Husk Briquettes



Fire Husk Machine



## < Technology Advantages >

### 1. Compressed to one tenth in volume

The Fire Husk Machine compresses the rice husk volume to about one tenth and process it into rod-shaped briquettes, which is storable and portable clean energy.

### 2. High Calorific Energy

The heat quantity of rice husks is as large as 3,800 kcal/kg, and the solid fuel made of rice husks can be used as a replacement of firewood. With long combustion time, the produced briquettes can be sold for many applications as fuel.

### 3. Valuable by-product

Ashes after combustion contain a large amount of silica and can be used as agricultural materials.

## < Technology Specification >

FHM-120 Type

Rice husk processing capacity: 120 kg/h

Power required: 27.0 kw

## < Intellectual Property >

Japan

## < Certification and Testimonial by the Third Parties >

2010: Medal of honor, Dark blue ribbon medal

2009: Medal of honor, Yellow ribbon medal

2008: Award for distinguished service from Japan Institute of Invention and Innovation

\* Described for the past three years, and many others since 1968.

## < Collaboration Partners >

Mie University, Osaka University, Kyoto University, The University of Shiga Prefecture

## < Environmental Aspects >

Carbon neutral, carbon offset and CO<sub>2</sub> reduction through the production of rice husk briquettes

## < Project Records >

[Japan]

Agricultural cooperatives in various regions

Agricultural corporation

Toyama prefectural university

[Myanmar]

2010: Introduced the rice husk briquette equipment and rice husk-based heater (NEDO demonstration and verification project)

\*More Projects records in the Philippines, Vietnam and Cambodia with other technology of KANSAI CORPORATION

## < Business Model >

### **Sales of technology and equipment, Production**

Producing rice husk briquettes as a replacement of firewood and as a heat source for power generation plants promoting in Myanmar, Laos and Cambodia, as KANSAI CORPORATION is promoting in Myanmar, Laos and Cambodia.

### **< Customer Segment >**

Project Developers, Manufacturers, Research institutes, Agricultural cooperative society, Rice polishing facilities

### **< Preferred Business Location >**

Japan, Southeast Asian countries (Philippines, Cambodia, Myanmar, Vietnam and Thailand), Countries and regions with high rice production

### **< Way to provide Technology >**

Sales at a fixed price, Joint Venture or Shareholding, Profit Sharing