## **Technical Information Sheet**

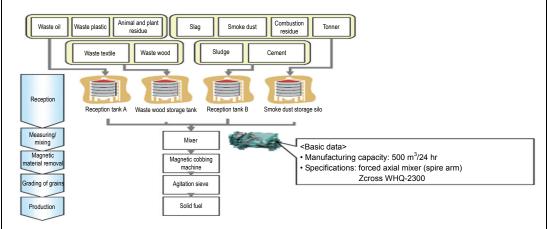
1. Name of technology	Biomass Waste Fuel (BWF) Manufacturing Technology
2. Type of technology	Complete recycling of waste oil (waste ink, waste paint, etc.) which has been considered difficult for recycling and simply incinerated.
	A patented original treatment system (Patent No. 5078628) to manufacture BWF as an alternative fuel to coal
3. Description of technology	
	[Objective and application of technology]
	Our original treatment method and facilities enable waste oil, for which incineration has been the only treatment method, to be recycled to BWF with higher combustion efficiency than coal and thereby contributing to the reduction in environmental impact by accelerating the recycling of

only treatment method, to be recycled to BWF with higher combustion efficiency than coal and thereby contributing to the reduction in environmental impact by accelerating the recycling of various kinds of waste. In particular, BWF for cement factories enables combustion residue from incineration plants and oil mud from oil-water separation plants to be fully recycled, provided that BWF is used in appropriate plants with facilities for burning general coal.

In our BWF manufacturing process, we receive materials after carrying out preliminarily sample inspections for thoroughly confirming material composition (to eliminate substances with hazardous properties such as heavy metal contamination). Also, we treat the materials using a reliable safety management system including special fire prevention equipment such as a nitrogen generating devices and sprinklers with twice the capacity generally required.

## Outline of solid fuel manufacturing

Objective, application, characteristics, delivery record, and price of technology





## [Characteristics of technology]

① Homogeneous and expeditious process of different kinds of mixtures by utilizing Zcross System (a system which uses a Zcross mixer to produce BWF and has a three-layer structure with: wood and textile waste as a core; a mixture of viscous oil waste as an intermediary layer; and a mixture of oil mud as a surface coating).

