

TAKUMA CO., LTD.

# BIOMASS BOILER PLANT

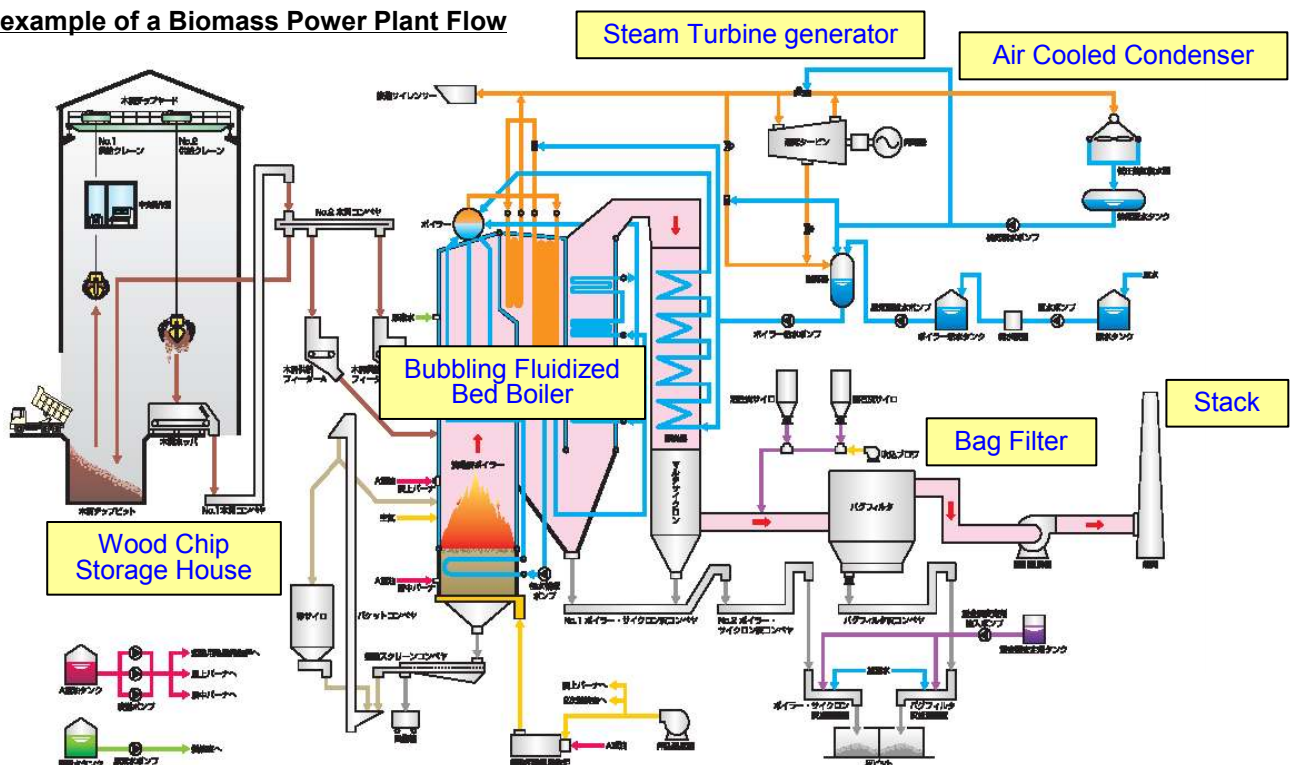
## • Boilers using biomass as fuel

### Features

- TAKUMA's expertise in environmental engineering has accomplished an efficient combustion technology of hard-to-burn material with high moisture content such as biomass.
- TAKUMA has developed several types of combustion systems to match customers' needs.
- A great number of designs and technology are incorporated into the power plant with fuel moisture content even to achieve an efficient power generation and a stable power supply.

### Overview (Technical principles, actions, etc.)

An example of a Biomass Power Plant Flow



Boiler : N-1000FH Bubbling Fluidized Bed boiler  
 Max. Steam Pressure : 7.2 MPa  
 Nor. Steam Pressure : 6.0 MPa  
 Steam Temperature : 425 deg-C  
 Steam Generation : 25.5 ton/h  
 Feed Water Temp. : 143 deg-C  
 Power Output : 4,900 kW

## Introductory Track Record

- More than 500 units

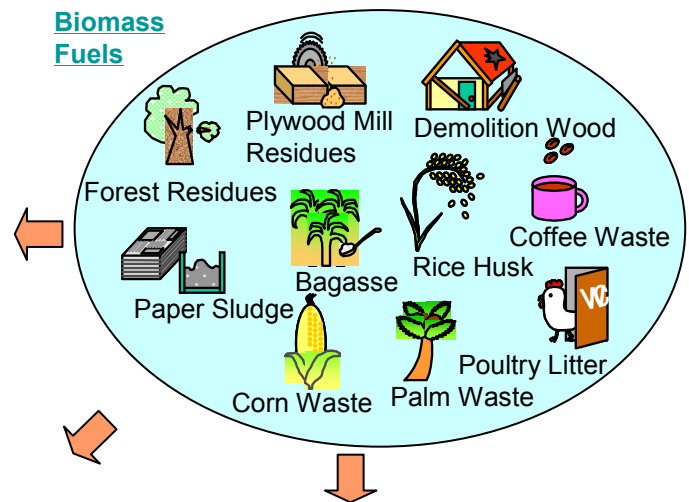


**Bagasse Fired Boiler Plant  
Thailand**



**Rubber Wood Fired Boiler Plant  
Thailand  
23,000 kW**

### Biomass Fuels



**Wood Waste Fired Boiler Plant  
Hiroshima Prefecture, Japan  
5,000 kW**

## Effects

### Biomass fuel is :

- **Regenerative Energy**

Plants continue to grow as long as existence of sun light, water and soil. Efficient use of biomass energy is applauded as fossil fuels become depleted.

- **Earth-friendly Energy**

Plants absorb CO<sub>2</sub> in the growing process. Rich, green forests thus help prevent global warming.

- **Regenerative Energy**

Agro-forestry wastes previously disposed of are recovered as fuel energy. This forms a recycling type community with reduced waste generation and efficient energy use.

Inquiries

**TAKUMA CO., LTD.**

INTERNATIONAL OPERATIONS DIVISION

URL : <http://www.takuma.co.jp/english/>

E-mail : [international@takuma.co.jp](mailto:international@takuma.co.jp)

2-2-33 Kinrakuji-cho, Amagasaki, Hyogo 660-0806, Japan

TEL +81-6-6483-2630 FAX +81-6-6483-2637