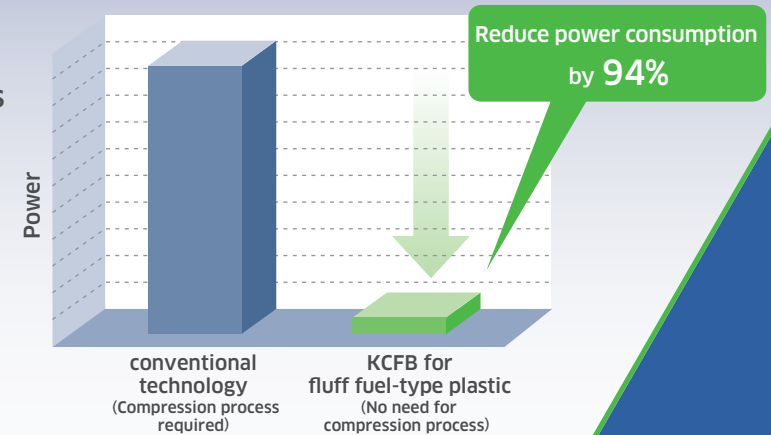


Kawasaki Circulating Fluidized Bed Boiler for Fluff Fuel-Type Waste Plastic

Achieved significant power savings

By burning fluff fuel directly, the compression process of fluff fuel is reduced and energy saving is realized (94% reduction compared to conventional power).

Fluff Fuel : Waste fuel that does not require compression and solidification process

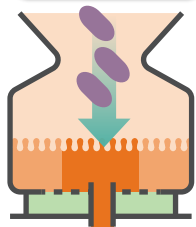


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Solidified fuel (RPF)

Compression process required

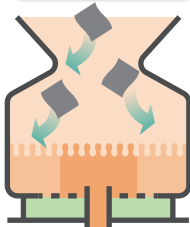


High bulk density
Easy to reach beds

Good flammability

Fluff fuel

No need for compression process



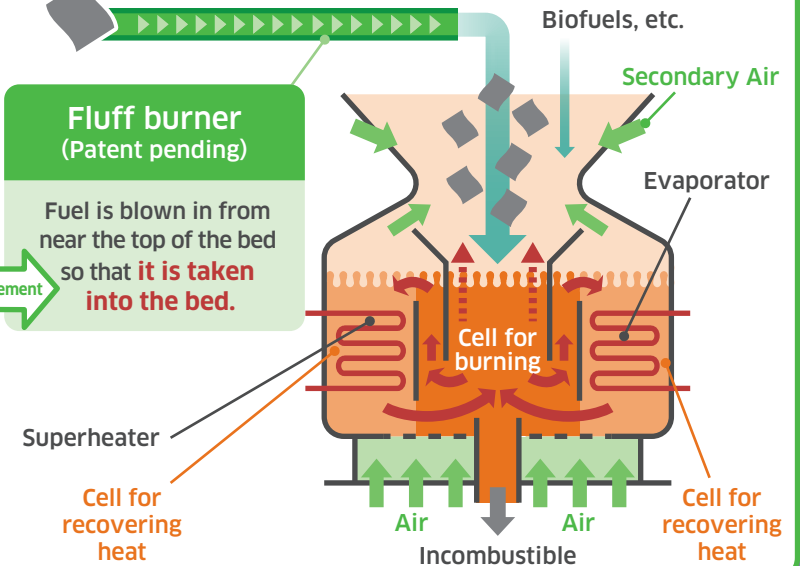
Low bulk density
Difficult to reach beds

Bad flammability

Improvement

Fluff burner (Patent pending)

Fuel is blown in from near the top of the bed so that **it is taken into the bed.**



Product Description

This boiler can use a wide variety of fuels, including solidified fuel such as waste plastics(RPF*1, RDF*2), construction waste, waste tires, and biomass, as well as carbon neutral fuels.

*1. Refuse Paper & Plastic Fuel (RPF): high-calorie solidified fuel made from waste paper and plastic that are difficult to recycle

*2. Refuse Derived Fuel (RDF): Solidified fuel made from garbage, combustible waste, and waste plastics

Features

- Since waste plastic fuel is a waste and treated as a non-fossil fuel, the amount of heat input in the fluff to be able to replace 100% of the fossil fuel used
- No need for RPF manufacturing equipment makes overall equipment lighter, maintenance-free, and less vibration and noise
- The fluff burner (patent pending) allows flame-retardant fluff fuel to generate the same amount of CO and NOx as other fuels
- Dioxin generation can be prevented by following combustion methods using waste-based fuels