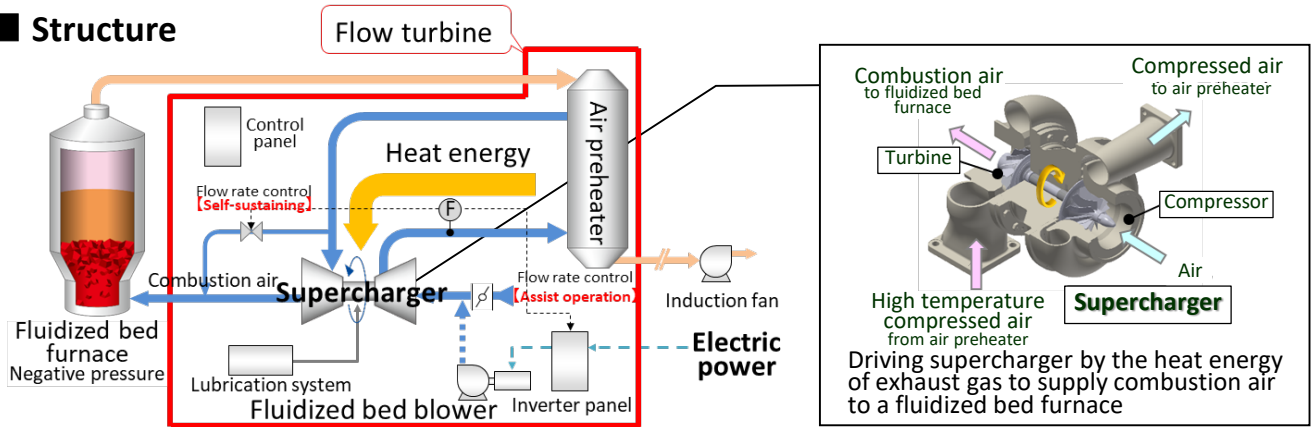


Flow Turbine: Energy-saving Supercharged Blowing System For Fluid Bed Furnace

Developers: METAWATER Co., Ltd., KUBOTA Corporation.

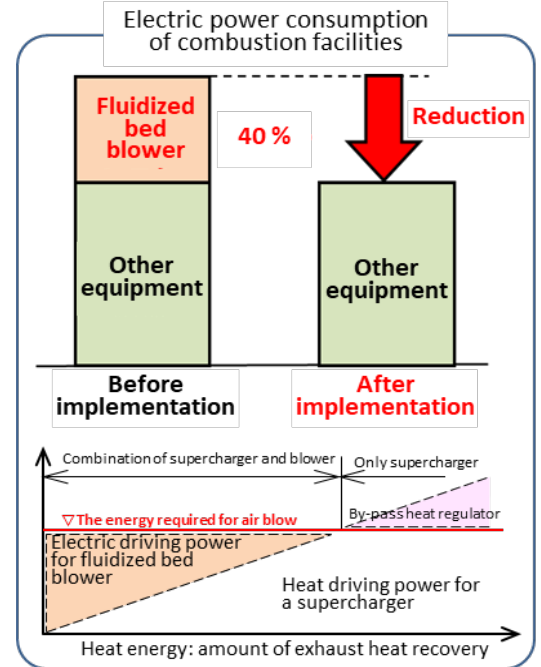
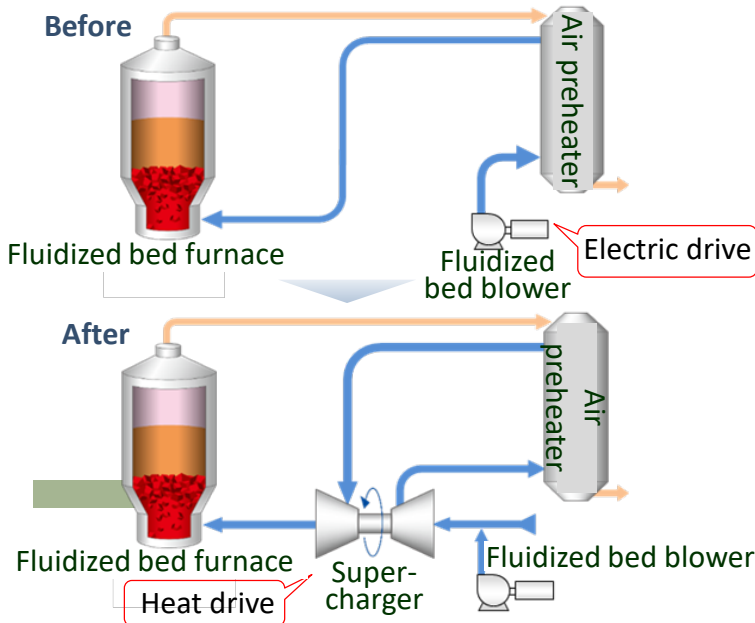
A supercharged blower driven by the heat energy of exhaust gas is installed in a combusted air flow line and has an alternative function to a flowing blower.

Structure



*Automatic control of the supercharger according to thermal energy volume allows switching between "self-sustaining" and "assist operation."

Implementation example and benefits



Needs

- Saving power consumption for a fluidized bed furnace and reducing greenhouse gas emissions
- Saving energy of incineration facilities along with renewing air preheater

Benefits

- Reducing power consumption of the whole incineration system and CO² emissions from electric power while keeping the safety of a fluidized bed furnace