

Plants for difficult to handle bulk materials

Venizel, France

YEAR OF CONSTRUCTION 2018

DESCRIPTION

After already-successfully completed projects with a customer, SHW-SHS received the order of a fuel supply system in a large paper factory for the site in France.

Saving of fossil fuels such as coal, natural gas or crude oil was useful. SHW-SHS implements this by combustion of residues from paper production/wastepaper processing.

SHW-SHS has designed a fuel supply system for a stationary fluidised bed boiler that provides energy in the form of electricity or steam with the combustion of residues:

- Waste wood
- Fibres
- Plastics/rejects

The system comprises:

- A silo with rotor unit and two removal screws
- Two dosage screws with dosage container
- Two emergency shut-off sliders

To ensure the required dosage accuracy, the fuel is transported into the dosage container by removal screws. They are controlled via the screw revolutions, to avoid power fluctuations in the combustion chamber.

The fuel supply system is built in stainless steel design with wear protection. This minimises wear and permits low-maintenance operation of the system. The system was designed with a special view to economic efficiency in terms of investment and operating costs.

The supply container prevents bridge formation of the bulk material by the tried and tested SHW relief systems.

The overall system was designed and built ATEX 2014/34/EU-compliant. The supply container has a pressure relief system (burst discs and blow-out channels) and a fire extinguishing facility. The dosage containers were applied with a dedicated fire extinguishing system as well.

The system was designed redundantly. This way, 75% of the maximum fuel consumption is ensured even at unilateral supply.

SHW-SHS stands out on the market with its integrated concept from planning, to delivery, to commissioning and after-sales service. It is available to the customer as a competent partner across the entire product life cycle.