



Direct drying of saw dust Korsnäs Latvia, Jaunjelgava

This project

Korsnäs Energy decided in 2004 to build a new pellet production facility in Latvia. Our direct drying technology was selected together with a biofuel furnace from Saxlund, Sweden. Pellet production is approx. 60 000 tons per year.

YEAR OF DELIVERY:

2005

TECHNOLOGY:

Direct drum dryer with optimised internal lifting system

TREATED MATERIAL:

Saw dust

EVAPORATION CAPACITY:

approx. 7-8 t/h

DRYNESS IN/OUT (w%):

approx. 45 / 90

HEAT SOURCE:

Exhaust gases from biofuel furnace mixed to approx 400°C using recycled gases after dust separation

HEAT RECOVERY:

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FIRE PROTECTION SYSTEM:

Firefly-system for detection and fire water

GAS / DUST CLEANING:

6 parallel cyclones

SCOPE OF DELIVERY:

Material input and discharge, dryer, gas mixing system incl temperature control, dust recovery system with cyclones, stack, etc.

Alternative solutions

We offer custom made systems for drying all types of solid biofuels. Our specialty, besides direct drum dryers, are indirect systems in one or two steps. These systems offer higher flexibility in terms of heat source (exhaust gases, steam, hot water, thermal oil, etc), improved heat recovery opportunities and higher fire protection. Please get in touch with us and explain your situation!

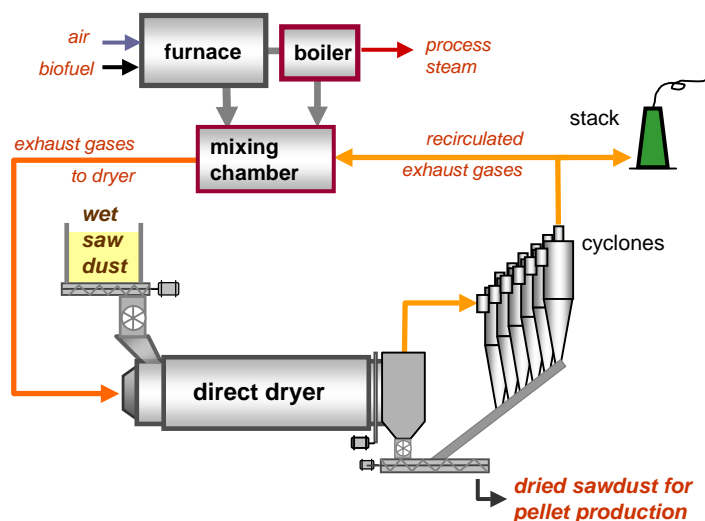


This direct system for drying of biofuels is a simple and robust system with a high degree of energy utilisation (exhaust gases are cooled in the dryer to approx. 80°C).

Dust handling, often being of major importance in drying, is coped with by means of the 6 installed cyclones. Using dry dust handling generates minimum loss of dried product.

Drying is carried out in co-current flow, which implies an easily controlled operation with even outlet dry content to the pellet production line. Fire hazards are thus also minimised.

The dryer is continuously operated and has ever since taken into operation provided a reliable flow of dried saw dust – resulting in expected pellet production rates.



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