



Complete pelleting line Gotlands Värmepellets, Sweden

This project

Gotlands Värmepellets decided in 2007 to build a complete pelleting line. Torkapparater was selected as a general contractor for the complete production line including materials handling, drying, grinding, pelleting, cooling, screening, bagging, robot loading a.s.o.
The first plant in its kind from one single supplier.

YEAR OF DELIVERY:
2008

TECHNOLOGY:
One-stage drying with indirect tubular dryer – Bojner system.
Low temp dryer: off-gas in combination with hot water

TREATED MATERIAL:

Various grinded biomass and saw dust

EVAPORATION CAPACITY:

approx. 2 t/h

DRYNESS IN/OUT (w%):

approx. 45 / 90

HEAT SOURCE:

Exhaust gases from a boiler of 200°C in combination with hot water of 120°C.

HEAT RECOVERY:

None

GAS / DUST CLEANING:

Cyclone

SCOPE OF DELIVERY:

A complete drying, grinding and pelleting line.

Alternative solutions

We offer custom made systems for drying of all types of solid biofuels – indirect systems in one or two steps being our specialty. Besides exhaust gases, steam, thermal oil, etc can be applied as heat source. We also offer direct drum drying which is a simple robust technology, however with less opportunities for heat recovery and elimination of fire hazards. Please get in touch with us and explain your situation!

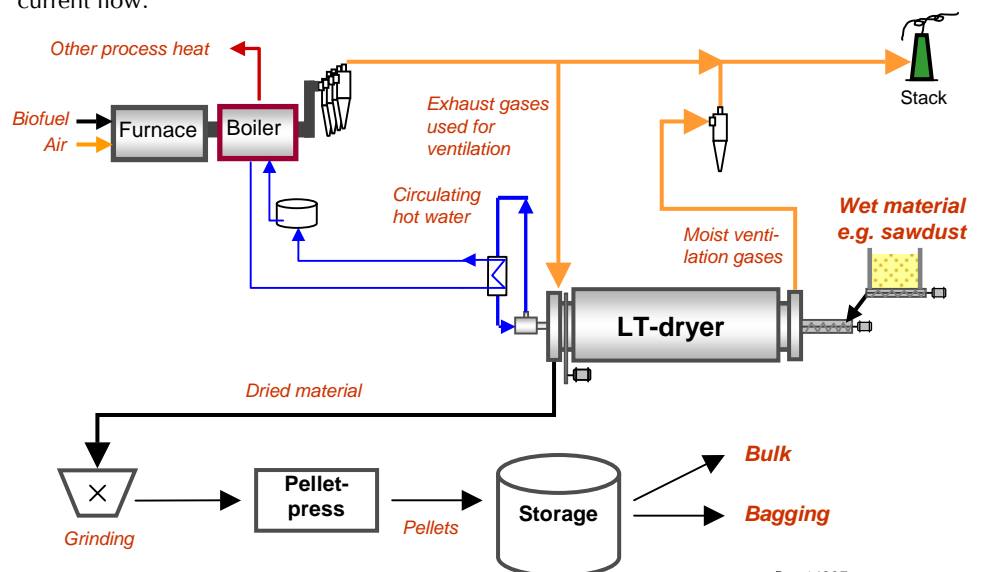


The scope of supply in this project consisted of a complete pellet factory. With all its components the scope also included process automation and control as well as mechanical and electrical installation.

As energy source for the drying a combination of available streams of off-gas and circulating hot water. These streams were used in the rotary drum dryer for indirect heat transmission in counter current flow.

The heat supply systems are based on circulating systems with very high availability with verified safety procedures.

Drying in combination with materials handling, grinding, pelleting, cooling, screening, bagging and robot loading from one single supplier makes this plant unique in its kind. This system combines excellent energy efficiency, operational robustness, environmental protection and overall economy.



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