

Vecoplan[®]



IDEAL SOLUTION FOR BOILER FEEDING WITH WASTE WOOD

A plant breeding company in the UK operates a biomass combined heat and power plant and required a reliable and energy-efficient solution for feeding a biomass boiler with coarse-particle waste wood. A system was created using patented Vecoplan[®] components which guarantees maximum availability and low energy consumption.

You name it,
we solve it!

SUPPORTING SUSTAINABLE ENERGY GENERATION

The plant specialist supplies supermarkets throughout England with around 4.5 million flowers and pot plants per year. The company heats its greenhouses using energy generated on a sustainable basis and heat from its own biomass combined heat and power plant.

The fuel used is waste wood. It is supplied in the form of wood chips (P100) and stored in two boxes, each 180 m³ in size. The core of the power plant is a Vyncke boiler system. It must be supplied reliably with a capacity of 1 tonne per hour.

Vecoplan® designed an efficient and energy-saving solution for storing, dosing and conveying the fuel. Two Toploader systems, two drag chain conveyors and a type 1000 disc screen are employed to separate overlengths.



RELIABLE PARTNER

SUCCESSFUL PROJECT HANDLING

Since biomass combined heat and power plants are becoming more attractive for companies from various industries, new customer segments are opening up for Vecoplan® as a supplier of reliable plant technology. The customers profit from the experience, technical expertise and comprehensive support.

Vecoplan® handled the following tasks:

- Engineering
- Delivery of machines and associated technology
- Installation with supervisor
- Commissioning

CONSISTENT SOLUTION

To ensure the boiler system is supplied on an extremely reliable and energy-saving basis, Vecoplan® developed a compact storage and conveying system. This seamless intermeshing guarantees maximum availability and low maintenance effort. The service package from Vecoplan® comprised:

- Two Toploader systems
- Two drag chain conveyors (KKF 670-2K-0 and KKF 670-2k-U) for delivering material
- One type 1000 disc screen
- Electrical controller

PATENTED IDEAL SOLUTION

VECOPLAN® TOPLOADER

- Cost-effective storage technology for bulk materials such as wood chips made from waste wood
- Ideal for boiler feeding in biomass power plants and reception stations for larger storage units
- Fully automatic box evacuation without operating personnel
- Filling one or more boxes (up to 400 m³) using a semi-trailer, tipping scrap skips or wheel loader on even ground
- Removal is effected over a sloping ramp with a conveying capacity of up to 100 m³/h
- No pit is required for this type of removal
- Drive, lifting device, mechanical devices are outside of the bulk material and always easy to maintain



OPTIMISED ENERGY-SAVING SOLUTION

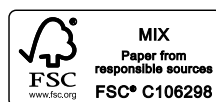
The plant breeding company implements a sustainable energy strategy in operating its greenhouses. The energy-saving Vecoplan® solution fits into this seamlessly. At the same time it ensures maximum availability and redundancy by means of two Toploader systems which operate independently of each other. Because no foundation work needed to be performed, the building costs were also comparatively low.

RELIABLE CONVEYING TECHNOLOGY

- ✓ Toploader is a patented licence product of Vecoplan®
- ✓ Vecoplan® offers not only Toploader, but also a supplementary product such as conveying and screening technology
- ✓ Compact conveying concept from a single source



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