



Concept for effective material handling

Schmack Biogas GmbH, Schwandorf, is one of the leading German providers of biogas plants. Since 1995, the company has set the benchmark for biogas plants in terms of both efficiency and cost effectiveness. In a drive to realise just-in-time plant feeding, the company invested in Vecoplan's toploder system.

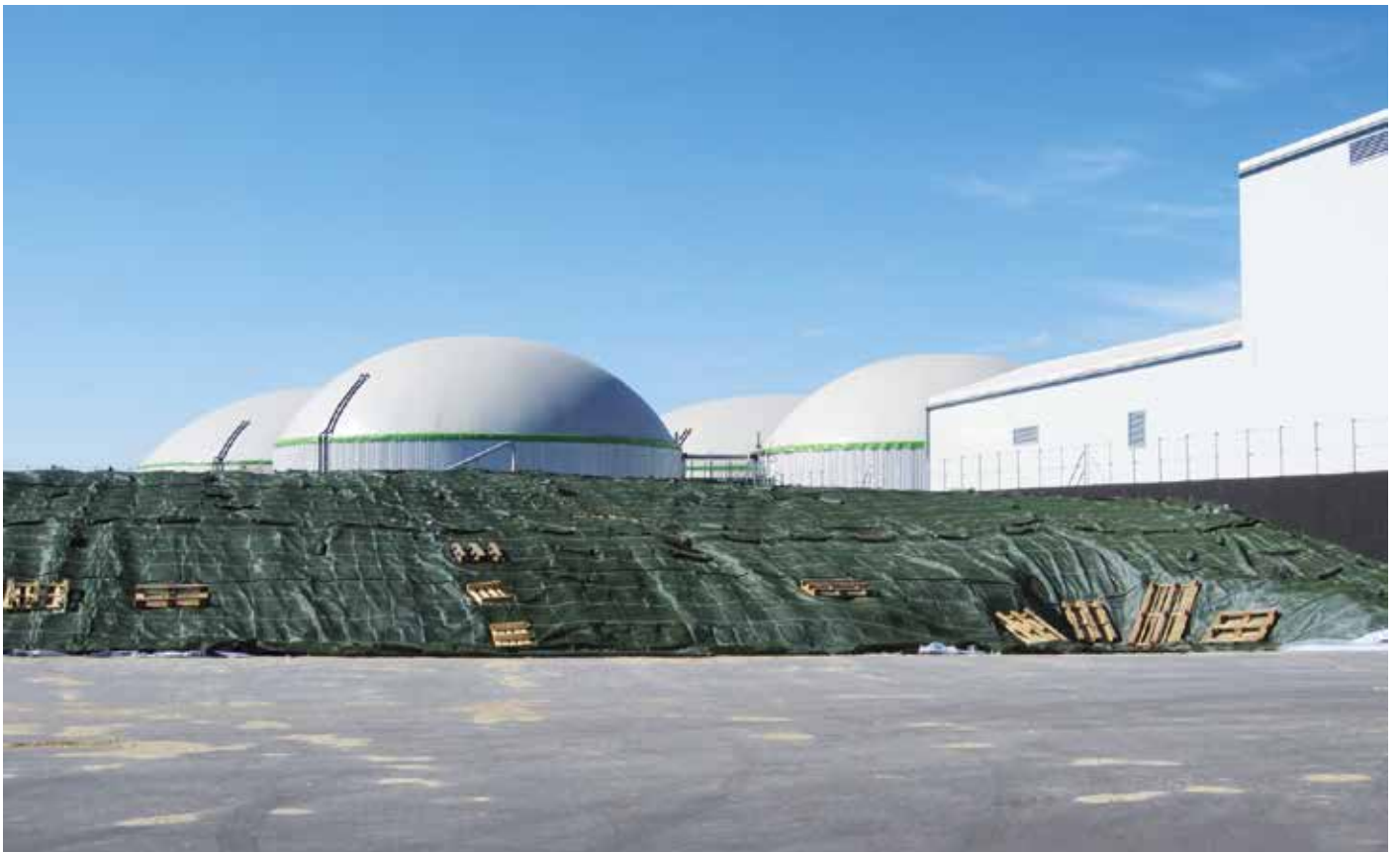


Vecoplan solution from a single source

To ensure maximum reliability and energy efficiency in supply of the furnace Vecoplan developed a compact storage and conveyor technology. The smooth interaction of components ensures the highest level of availability with the lowest maintenance costs.

The Vecoplan service package included

- Supply of the complete machine technology from reception and storage through to the furnace feeder
- Mechanical and electrical assembly right up to completion of commissioning
- Veco+ Live-Service



Precise, reliable material flow

To ensure reliable, disruption-free feeding of the biogas plant, all of the plant components must be precisely and minutely coordinated with one another. Vecoplan designed an efficient and energy-saving solution for the reception, storage, and dosing of the substrates as well as the subsequent feeding of the biogas plant. The plant comprised 2 toploaders, 3 belt conveyors and a fully automatic control system.

Challenges

- Provision of the required storage volume
- Delivery of the required high discharge capacity during the feed cycles

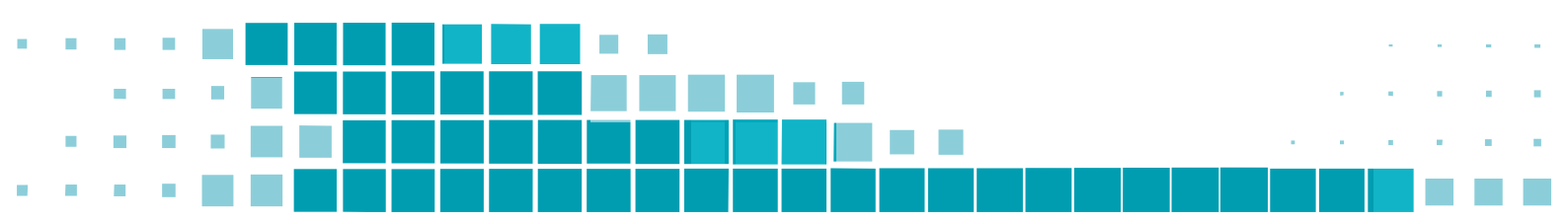




Ideal solution

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





Goal achieved!

- Just-in-time substrate reception during the running process
- Automatic material storage
- Fully automatic feeding of the biogas plant

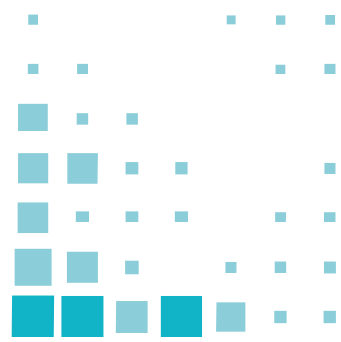
Just-in-time

- Reception and storage option for silage supplied just-in-time in online operation
- Reception option for silage delivered by lorry and agricultural tractor trailers
- Automatic storage of supplied and tipped substrates
- Just-in-time feeding of the biogas plant while the process is running



„We couldn't be more convinced to have chosen the Vecoplan toploaders and are already planning to acquire more for future projects.“

Maximilian Ring, Project Manager, Fa. Schmack Biogas



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