

Flexible fuel processing

Green energy generation

Vecoplan system equipment enables reliable fuel supply.



Green energy generation

The Gemdoub's paper factory in Novillars produces corrugated board packaging for the retail sector. The newly constructed biomass power plant feeds the factory permanently and reliably with steam for the paper production and additionally injects green electricity into the grid.

The CHP plant generates 153 GWh electricity per year which is in accordance with an annual consumption of 105.000 people and 215.000 t steam for paper production. The boiler is designed for a power output of 20 MWe and 23,5 MWth by 8.200 operating hours per year.

To guarantee this task it was necessary to install a proven and low-maintenance system equipment. Furthermore the customer requires a sufficient fuel storage to maintain the boiler operation for several days without fuel generation. Vecoplan realised a flexible system equipment to secure the permanent boiler supply.



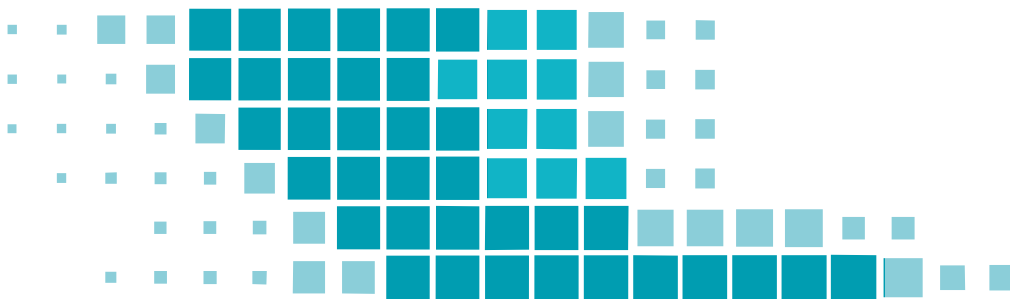
Input material

- Forest wood from various sources and disposal areas
- Foreign chips



Output material

- High quality fuel chips





A successful all-round package

Flexible system equipment

Fuel production, reception of foreign chips, fuel storing and boiler feeding were challenging for the Vecoplan constructors and partner company TBM. The scope of service:

- Consulting
- Project planning
- Delivery of machines
- Installation
- Commissioning

Permanent material flow

The fuel storage with 4 x 1.500 m³ storage capacity and fully automatic filling and discharge function was designed to customer specifications to stock the fuel requirements for approx. 3 days in plant.

Individually combined

The Biomass Combustion depends on clean processed fuel, that has to be brought into the boiler house depending on the actual demand. Vecoplan developed tailor-made solutions to ensure the reliable processing and feeding. The individual combination of different aggregates guarantees an optimal output.

Storing, Conveying and Screening Technology

- Chain cross conveyors
- Drag chain conveyors
- Feeding conveyor
- Metal Detectors
- Double Screw Conveyors
- Belt Conveyors
- Pull Rod Dischargers Typ II
- Disc Separators
- Flat Belt Conveyors
- Screw Conveyors
- Loading-/ Unloading Conveyor

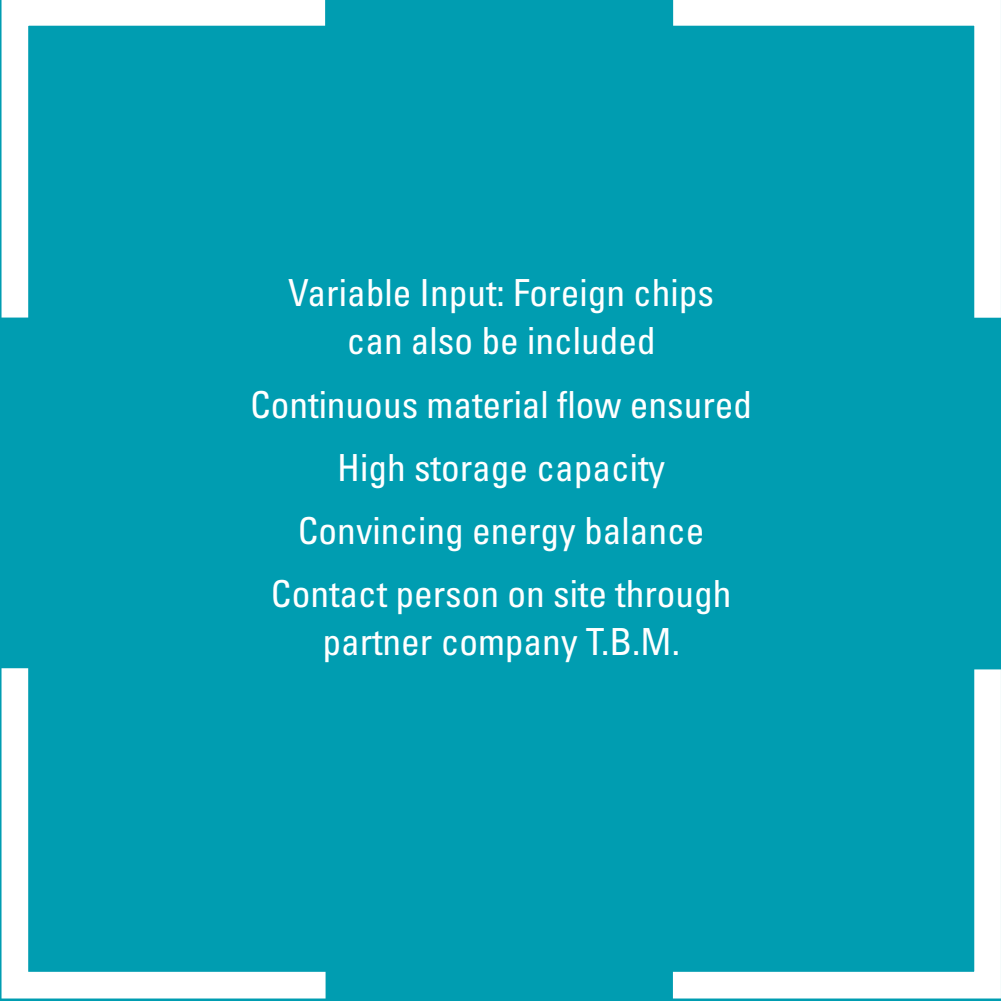
Shredding

- Biomass Chipper VTH 600 to shred coniferous logs and cutting discs
- VAZ 1100 to shred overlengths after disc screen



Designed for continuity

Vecoplan convinced Gemdoubts with the individual and flexible all-in-one solution for their CHP. Now 77.000 t CO₂ can be saved per year due to the switch from gas to biomass. Besides that the CHP produce enough green energy to feed the local heat network, public buildings and a hospital.



Variable Input: Foreign chips
can also be included

Continuous material flow ensured

High storage capacity

Convincing energy balance

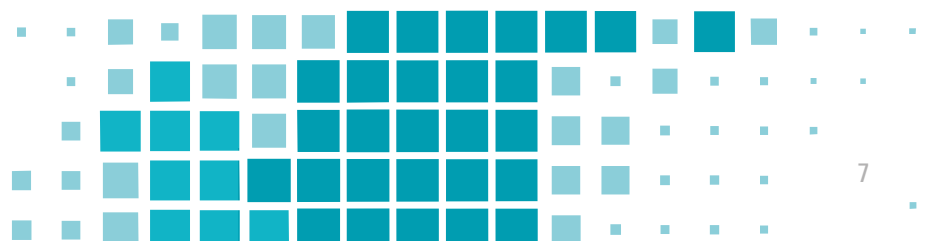
Contact person on site through
partner company T.B.M.

Successful teamwork

The whole project was realized with the french partner T.B.M. Besides the delivery of the complete chipping line, the foreign chip supply, the automatic 6.000 m³ big fuel storage, a dosing tank, conveying, measuring and separating technology as well as the steel construction with maintenance platforms, the electrical control system and electrical installations were included in the joint scope of supply. Of course the whole plant was also assembled and commissioned.

“Vecoplan developed individual solutions for fuel feeding and the processing according to customer request. The system runs continuously and generates green energy.”

Patrick Meyer



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