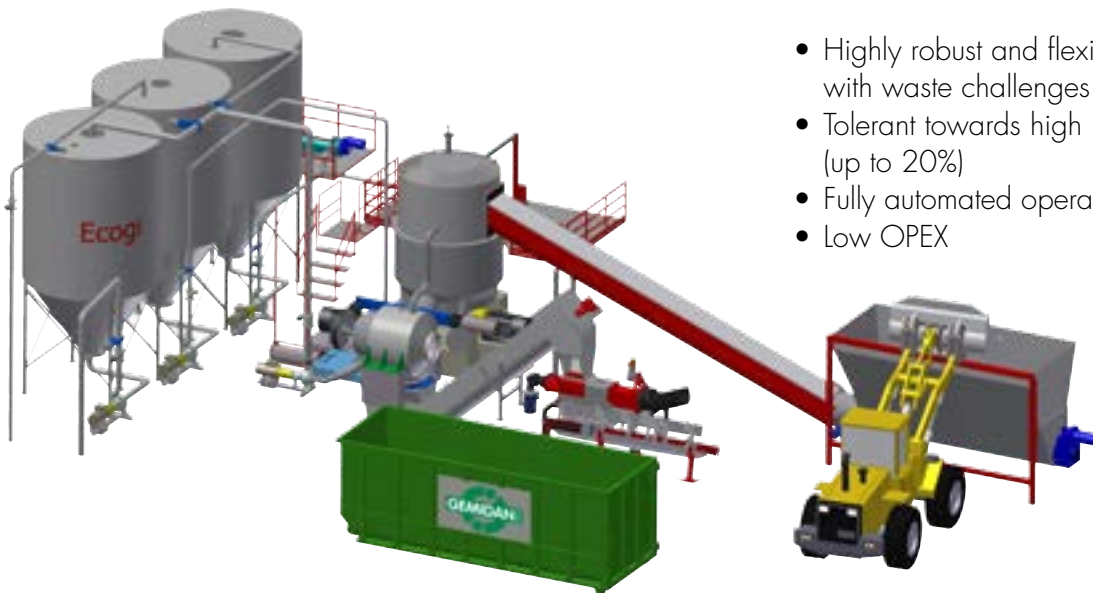




ECOGI - SIMPLE TECHNOLOGY FOR MANUFACTURING HIGH-QUALITY BIOPULP FROM MULTIPLE ORGANIC WASTE SOURCES

Major benefits:

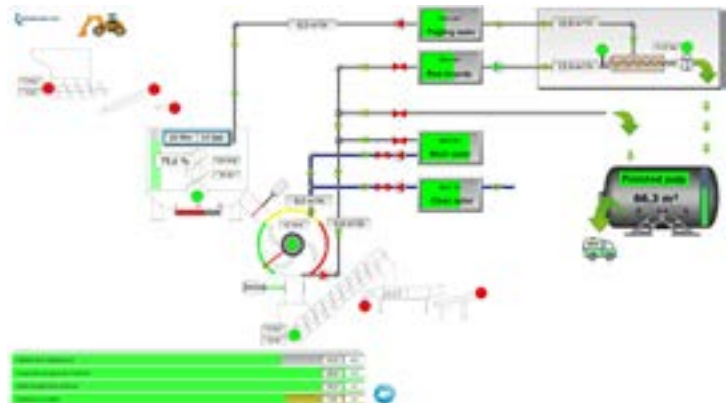
- Highly robust and flexible, able to cope with waste challenges
- Tolerant towards high reject content (up to 20%)
- Fully automated operation
- Low OPEX

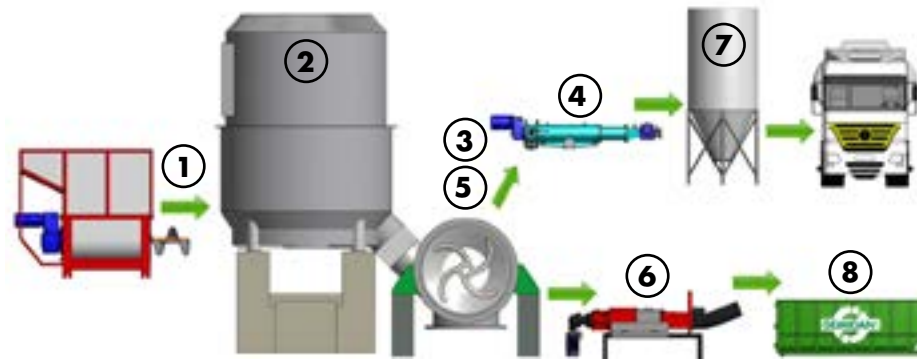


The Ecogi technology is based on years of experience in organic waste processing. The result is a cutting-edge technology, robust enough to cope with aggressive waste environments, and at the same time contribute in setting new standards for environmentally friendly manufacturing methods.

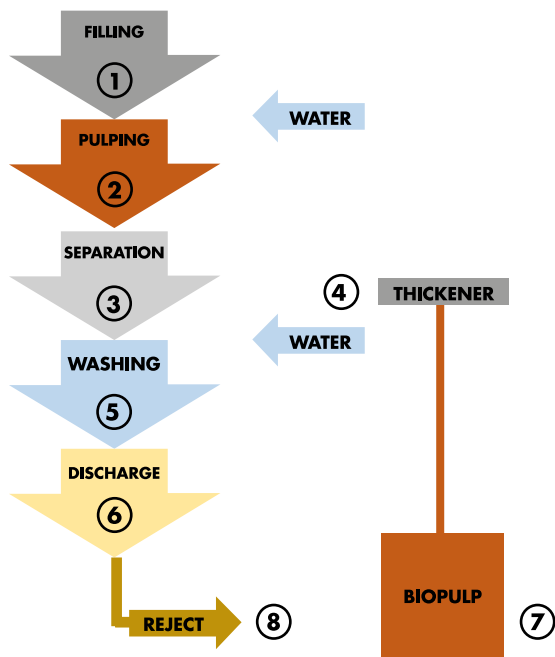
The Ecogi technology has been set as a possible BAT-technology, in recognition of the comprehensive documentation work carried out, and for the outstanding quality of the biopulp manufactured from organic waste.

The control philosophy is based on various recipes, depending on the composition of the treated waste. The system can be operated by remote access.





ECOGI process - simple, proven technology - adapted to the harsh waste environment



Main ECOGI process steps:

1. Feeding of biowaste
2. Pulping in relevant time interval
3. After pulping raw pulp is separated from reject
4. A thickener provides the final product quality
5. Washing of reject to maximize organic extraction
6. Dewatering of reject in a screw press
7. Storing of biopulp before delivery
8. Storing of reject before disposal/recycling

Typical biowaste processed in an ECOGI system



Source-separated household waste in green bags.



Mixed commercial waste



Source-separated household waste in biobags.



Waste from commercial kitchens



Mixed commercial waste



Canned food waste

Outstanding quality of pulp from ECOGI



Five major benefits of high quality biopulp from Ecogi facility:

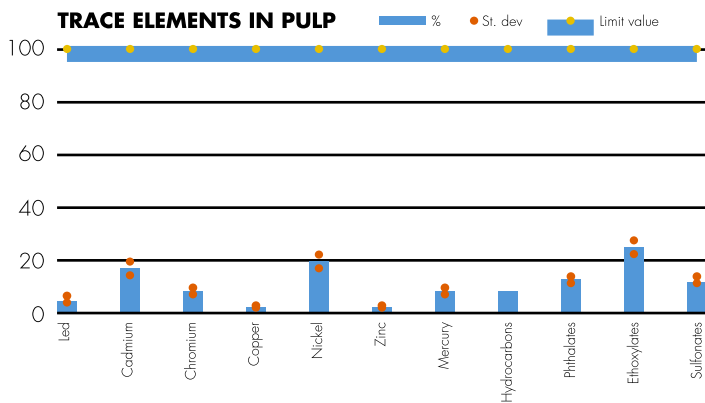
High degree of fineness (60% <math>< 100 \mu</math>, 93% <math>< 1.3 \text{ mm}</math>)

No visible impurities and compliance with all limit values

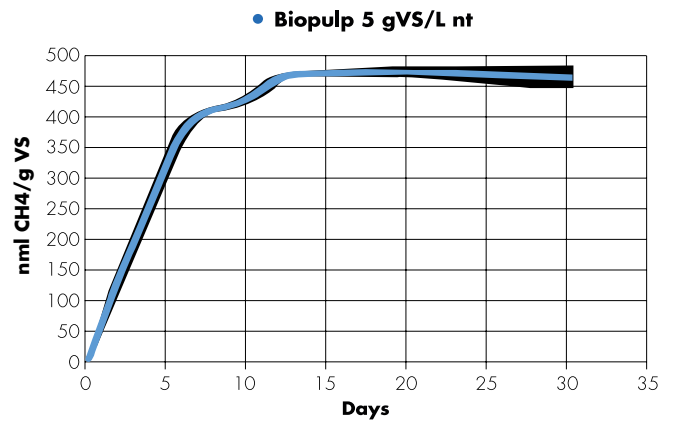
Maximum utilization of organic matter (>95%)

High gas yield, fast conversion in digester (>450 Nm³ CH₄/t VS)

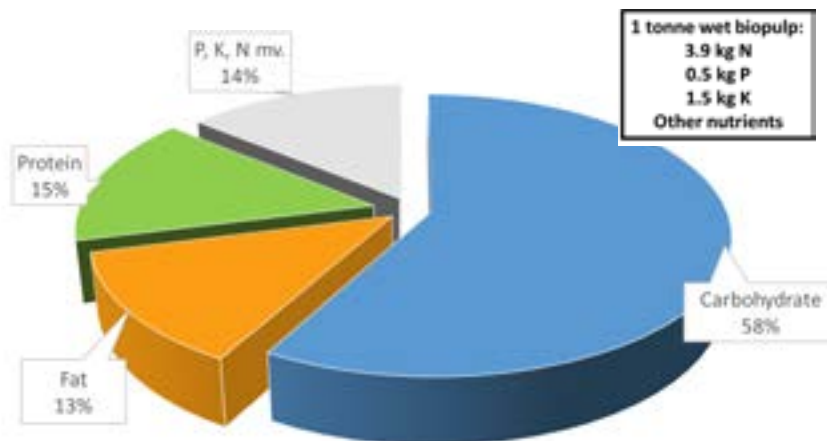
Adjustable TS-content



Trace elements - Average values with standard deviation. 100% line are Danish limit values for fertilizer use.



Gas yield verified by the Danish Technological Institute.



Composition in TS fraction of source-separated biowaste



Linattech and Gemidan have developed the ECOGI technology for treatment of organic waste. The main components of the ECOGI system are manufactured in Linattech's modern production facilities.



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