



SEPARATION ENHANCING SUSTAINABILITY BY SAVING ENERGY

WITH ANDRITZ ZERO-WASTE AND
ZERO-EMISSIONS SOLUTIONS FOR PULP MILLS

In response to the environmental demand for zero-waste zero-emissions, pulp mill operators are looking for ways to use their resources wisely. In the production of pulp large amounts of water are needed and three different types of sludge are generated.

Even though the unused wood material (bark) and other biological waste products are already replacing fossil fuels as far as possible, a lot can still be gained in the production process. The process water ends up in a waste water treatment plant after use and the

sludges have to be disposed of and have to be transported to landfill for else. With the ANDRITZ waste stream processing solution the primary, secondary (bio) and tertiary (COD) sludge are dewatered and dried, thus increasing the calorific value.

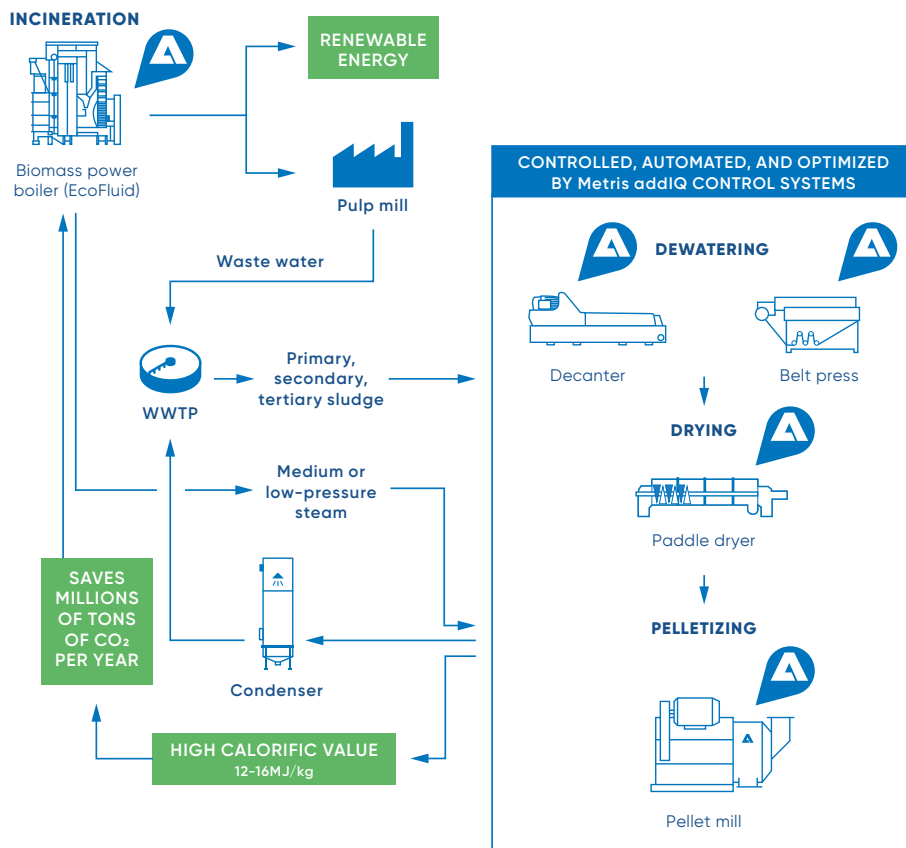
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ENGINEERED SUCCESS

The ANDRITZ solution comprises of a power boiler, dewatering and drying equipment minimizing the consumption of wash water and ensuring minimal off-gas emissions and a Paladin pellet mill system that ensures high output and efficient control of the pelleting process.

In the process the liquid sludge is dewatered and dried and then transformed into high calorific value pellets which can be used as fuel. The pellets can either be reused in the mill or sold outside, thus turning waste into value. The water is returned to the waste water treatment plant for a second cleaning stage and is then used as process water.

This turnkey processing solution will help pulp mills meet their ZERO waste goal – an important deliverable for the environmental permit.



Waste water treatment solution to decrease fresh water intake and create biofuels in a pulp mill

DS content	Calorific value
18-20%	3-5 MJ/kg
80-90%	12-16 MJ/kg

YOUR BENEFITS

- Reduced energy consumption in the drying step
- Reuse of process water reduces total water consumption
- Creation of renewable fuel out of sludge

EUROPE

ANDRITZ Gouda BV

p: +31 182 623 723

gouda@andritz.com

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