

Total Cost Evaluation



Cost savings from increasing cake dryness with 1% point (from 25 to 26% Dry Solids Out)

Alfa Laval has developed a calculation tool that shows exactly how much you can save in your decanter operation by different measures. The figures below represent a typical plant. Please contact us to for a calculation based on your specific operation.



Result

\$280,000 / £214,000

over a 5-year period.

Input

The following data is used per decanter.

Sludge Feed

Flow rate	45 m ³ /h
DS % in	2.4 %/wt

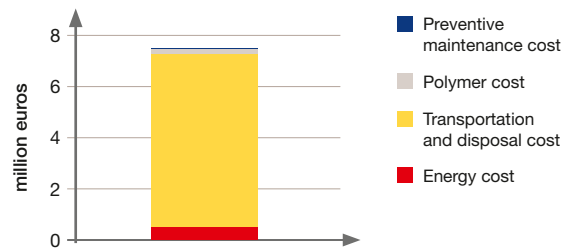
Decanter Information

Operation time of sludge dewatering per year	8736 hours/year
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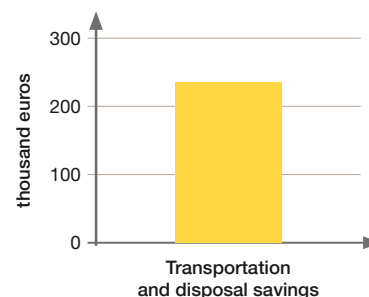
Utility & Other Cost

Water cost for polymer make-up	0.5 €/m ³
Cost for electric energy	0.1 €/kWh
Polyelectrolyte cost	0.4 €/kg
Transport & disposal for dewatered sludge	38 €/ton (wet)

Total evaluation cost over a 5-year period



Potential savings over a 5-year period



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