

DISCOVER OPPORTUNITIES

Are production continuity, profitability, sustainability or safety important in your company? Our experts are ready to help you discover and manage challenges and opportunities that are related to the waste water and dewatering processes.

The Nalco Water sludge dewatering program integrates all your chemical, equipment, automation and service needs for an optimum in sludge operation management.

DISCOVER SOLUTIONS

Our waste water experts on-site will provide a full sludge dewatering application survey and program proposal. The optimal selection of components from the innovative and unique FLOMASTER technology will ensure that our best-in-class polymer program provides maximum performance, in the most efficient way.



Over 5000 Nalco Water associates are **on-site** every day, supported by a team of **waste water experts** to help our customers overcome their sludge dewatering challenges.

FLOMASTER technology ensures optimal preparation, distribution and mixing of Nalco Water polymers with sludge flows to achieve **optimal dewatering performance**.

Best-in-class **Nalco Water polymer programs** help our industrial partners reduce waste, water and energy usage and minimize environmental impact and total cost of operation.

DISCOVER EXPERTISE

Nalco Water employs real-time insights, industry-leading service and a dedicated team of experts to help customers minimize water usage and maximize operational efficiency.

Our local Nalco Water associates and experts are there to support you, to meet your business drivers in sludge dewatering and evaluate the impact of our integrated approach on your total cost of operations.



FLOMASTER™ Technology

A sustainable solution for your sludge dewatering needs

Nalco Water, an Ecolab Company

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MINIMIZE WATER

Minimize **water usage** for polymer make-down by up to 90%

Thereby **minimizing hydraulic load** of dewatering equipment

TO

MAXIMIZE RESULTS

Maximize **treatment efficiency** (on average 25%)

Minimize **sludge waste production** (on average 10%)

Maximize process **continuity** and **stability**

AT

OPTIMIZED TCO

Optimized **Total Cost of Operation** (on average 15%)

DOING MORE WITH LESS WATER

FLOMASTER technology provides an innovative polymer preparation process. This results in a very stable and highly concentrated polymer solution, ready to use in the dewatering process and without the need of additional dilution water.

Consequently, less water means a decrease in the hydraulic load on dewatering equipment, leading to increased productivity.

GET MORE OUT OF YOUR DEWATERING PROCESS

Automated dosing provides on point dosing accuracy and ensures that the system responds accurately to changes in the sludge quantity. This keeps the treatment most efficient.

A dynamic polymer injection with variable mixing speed ensures optimal flocculation, resulting in increased dewatering performance and a reduction in waste volume.

We deliver continuity and stability in the dewatering processes, freeing our customers up to focus on other major tasks.

REDUCING WASTE AND SAVING RESOURCES

Optimal dewatering performance minimizes water content and volume of the dewatered sludge.

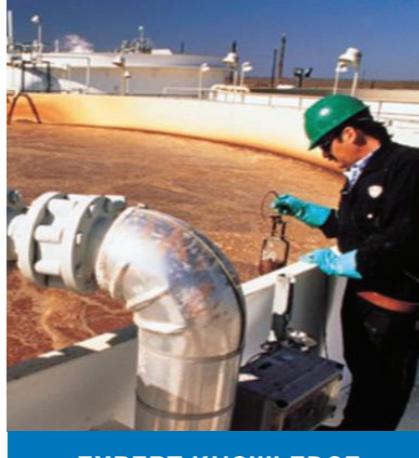
This generates transport and disposal costs savings, which not only reduces the demand for energy at the incineration plant, but also greenhouse gas emissions.

Less water reduces both the effluent water from the sludge dewatering and the treatment of the recycling process.

Sludge is produced at various stages of the waste water treatment process. Sludge dewatering is an essential step when considering environmental and total cost of operation goals. Poor dewatering leads to sludge with a high water content, which consequently impacts sludge volume, disposal and cost.

Today, companies are striving to improve performance, enhance safety and reliability, reduce costs and minimize environmental impact.

Nalco Water's FLOMASTER™ sludge dewatering program is an innovative and unique package designed to deliver quantifiable sustainability performance and operational efficiency in sludge dewatering applications.



EXPERT KNOWLEDGE



INNOVATIVE SOLUTION



ADVANCED TREATMENT

Industries around the world are increasingly aware of the impact of water on their business and are rethinking operations to be more water-efficient.

At Nalco Water we have a unique understanding of the roles water plays in running a business - from basic everyday uses to complex processes - and an unparalleled ability to help customers across nearly every industry improve performance, reduce costs and minimize environmental impact.

For more information on the case studies mentioned below please contact your local Nalco Water Sales Representative.

FLOMASTER Technology

Optimizes sludge dewatering performance and reduces operational expenses

Plant	Organic waste processing plant in northern Europe	Plant	Chemical plant in northern Europe	Plant	Paper Mill in southern Europe
Goal for FLOMASTER implementation	Improvement of operation stability and cost efficiency of the dewatering process.	Goal for FLOMASTER implementation	Increase production throughput of dewatering plant and improve effluent discharge to avoid environmental penalties.	Goal for FLOMASTER implementation	Reduction of energy usage and TCO without compromising operational practices and efficiency.
Case Study	CH-1956E	Case Study	CH-1882E	Case Study	CH-1541E

Energy savings I:

75k EUR

151k EUR

annual savings with FLOMASTER Technology

Treatment cost I:
76k EUR

Water usage I:
85%
30.000m³

Energy savings I:

4k EUR

291k EUR

annual savings with FLOMASTER Technology

Treatment cost I:
114k EUR

Water usage I:
4k EUR

Energy savings I:

122k EUR

395k EUR

annual savings with FLOMASTER Technology

Treatment management cost I:
273k EUR

Water usage I:
64.000m³