

Process audits

THE SMART WAY TO SAVE ENERGY AND IMPROVE PERFORMANCE



Comprehensive evaluation
of your biological process

Rising energy prices and stricter environmental regulations are the driving forces for improved process performance at wastewater treatment plants. By operating the biological process more efficiently at your facility, you can lower operating costs, improve effluent quality and reduce your plant's carbon footprint.

In many cases a one-day condition audit provides enough information to identify opportunities to improve plant performance. In other cases, however, it is necessary to evaluate the biological process in more detail by carrying out a process audit as well.

What it is

A process audit is an assessment service carried out by Xylem biological treatment specialists that consists of measuring, collecting and analyzing data from the biological process at municipal or industrial wastewater treatment plants. The final result is a process audit report that includes process and energy based recommendations that will reduce costs and increase operational efficiency.

How it works

Based on the findings of the initial condition audit, our highly-qualified specialists conduct a comprehensive evaluation of your biological process. With the use of advanced instrumentation such as online sensors and monitors, this evaluation will include onsite and historical data collection, performance measurements of equipment, as well as an assessment of the aeration and process control strategy.

Why it makes sense

A process audit will identify potential energy savings opportunities from equipment upgrades and provide a detailed evaluation with recommendations of how to improve the operation and control of the biological process to improve performance while minimizing costs. This can be done without compromising effluent quality and can reduce the current biological treatment energy use by up to 50 percent - and in some cases even more.



What can Xylem do for you?

Call +46 8 475 6000



Why Xylem TotalCare

When you work with Xylem TotalCare services, you get secure, optimal operations that come only with broad engineering expertise in water and wastewater.

- Lower your costs for both energy and consumables
- Reduce your environmental impact
- Improve plant performance and effluent quality
- Prolong equipment service life
- Boost profitability

Case study I

CHALLENGE: Reduce energy consumption and stabilize process controls at a wastewater treatment plant in Sweden.

SOLUTION: Xylem installed new highly efficient blowers to replace old positive displacement blowers. New aeration control was implemented with dissolved oxygen and active valve regulation with most open valve logic. A new fine bubble diffused aeration system was installed. Overall, Xylem specialists reduced aeration energy consumption by 65 percent.

Case study II

CHALLENGE: A large SBR plant in the UK had problems with its aeration controls, as well as inefficient blowers and old diffuser membranes. The plant was operating at higher than necessary sludge age, and the blowers had a limited air flow turn-down capacity. All of these issues contributed to high power consumption.

SOLUTION: Xylem introduced sludge age control, high efficiency blowers, diffuser membrane replacement and updated dissolved oxygen control logic for a total power reduction of up to 60 percent, reducing operational cost by £542,000 annually.

Price

The price of an audit depends on a variety of factors, including the size of your facility. Please contact your local Xylem service manager for more information.



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