Biological Wastewater Treatment Technologies
Waste to Energy

About Us
Biowater Technology is a leader in the design and development of environmentally friendly biological solutions for the treatment of water and wastewater. We have patented Norwegian technology, the continuation of a proven business idea that was started 21 years ago with many of the same key people.

Experience
Biowater employees are very knowledgeable with over 35+ years of experience most of which has been in the area of fixed-film systems. We pride ourselves on our attention to detail and our knowledge of biological fixed-film design.

Examples of various wastewater we have experience in include:

**Municipal**
We analyze the presence of commercial and industrial discharges, the region, the age/condition of the collection system and the regulations for that region.

**Chemical & Pharmaceutical**
This waste stream can have complex characteristics: biocides, heavy metals, pharmaceutical intermediates and endocrine disruptors. We are familiar and know how to marry appropriate treatment to make sure you are compliant.

**Petrochemical**
This wastewater typically contains a lower biochemical to chemical oxygen demand. We determine biodegradability of each waste stream and the presence of toxic or inhibitory compounds.

**Dairy**
This wastewater contains calcium ions that form salt complexes with phosphate, carbonate, sulfate and other ions. We have experience with how to handle scaling issues and salt control.

**Food & Beverage**
We know how to optimize treatment configurations such that a customer’s Clean-in-Place (CIP) and COP chemicals do not hinder compliance.

**Pulp & Paper**
Wastewater treatment processes considered for this industry must address industry specific nuances like slug discharges of pulp, stormwater runoff and air emissions for compounds such as total reduced sulfur (TRS).

Technologies

Biological Treatment:

CFAS™ - Combined Fixed Film Activated Sludge

Compact - The amount of biomass within a given volume can be doubled.
Flexible - BOD, Nitrogen and Phosphorus removal can be included.
Stable - Self regulating biofilm ensures stable treatment under variable loads.
Sludge Production - Efficient particle separation and sludge treatment.

Removal of BOD/COD + Nitrogen Removal (Pre-Denitrification)

CFIC™ - Continuous Fixed-Film Intermittent Cleaning

The Energy Saver - Reduction in energy consumption 20-30%!
Compact - Small footprint

We make membranes better by improving biological treatment

Separation Technologies: Disinfection:
Flotation UV
Sedimentation Chemical Treatment
Membranes
Filtration
Screens

Services

Biowater Technology will guide you through the process from start to finish.

- Upgrade existing plants
- Greenfield plants
- Training/education
- Consulting
- Pilot testing
- Budgetary planning
- Energy analysis

www.biowaterusa.com
Research & Development
We concentrate our efforts on developing cost effective, green solutions for the future focusing on reuse of resources such as water, sludge and biogas. We are working on ways to increase production of renewable bio-energy which will be available in the very near future.

Environmental Sustainability...
is development that meets the needs of present generation without compromising the ability of future generations to meet their own needs.
-World Commission on Environment and Development
Our Common Future (1987)