

ECODOSING:
ECONOMICAL,
ECOLOGICAL

BIOFOULING SOLUTIONS



A COMPLETE SOLUTION TO BIOFOULING CONTROL

H2O Biofouling Solutions (H2O BFS) provides the most comprehensive solution to the corrosive and costly effects of Biofouling. Our Ecodosing service allows our customers to achieve a significant reduction of chemicals used in the Biofouling control process. In practice, this means a cost reduction of 30 to 50 percent. Only H2O BFS offers a holistic approach to Biofouling control with custom-tailored dosing recommendations coupled with hardware review and modifications to effectively implement the practice. The results are clear, with new installation capital costs reduced by 10 to 30 percent and reoccurring operating costs cut by 30 to 60 percent. Think of it as a turnkey alternative to Biofouling control.

Traditional Installation Costs



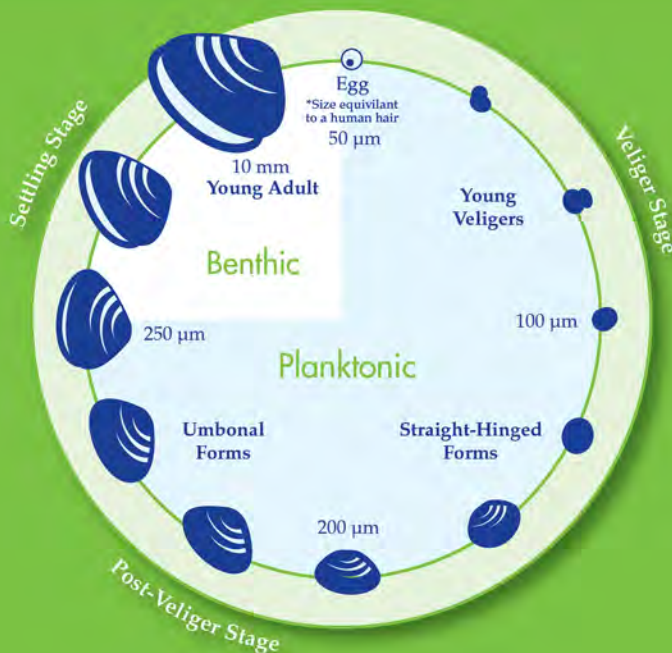
Ecodosing Installation Costs



Traditional Operating Costs



Ecodosing Operating Costs



THE BIOFOULING PROCESS

Biofouling is the process by which visible and microscopic fouling organisms attach themselves to any available submerged surface or piping. For industrial installations, this type of settlement can create blockage of the piping, increase corrosion rates, reduce heat transfer, and decrease pumping capacity. This results in reduced output and increased operation and maintenance costs. Biofouling has even led to unplanned outages at many facilities, causing significant financial loss. Therefore, Biofouling control is a vitally important component of any installation utilizing freshwater, brackish water, or seawater.

BEST AVAILABLE TECHNOLOGY

Our Ecodosing service is not limited to sodium hypochlorite and can be effectively applied with any Biofouling control product, including all oxidizing or non-oxidizing biocides. This results in a cost-effective and environmentally friendly alternative to traditional Biofouling control dosing practices.

The technology behind Ecodosing has been declared a best available technology for once-through cooling water systems by the EU IPPC and has been successfully implemented at numerous facilities around the globe.

With Ecodosing, you'll be using the minimum amount of chemicals necessary to control Biofouling settlement, ensuring minimal environmental impact and substantial costs savings.

TYPICAL OXIDIZING AND NON-OXIDIZING BIOCIDES

- Sodium Hypochlorite
- Chlorine Dioxide
- Quaternary Ammonium Compounds
- Peracetic Acid
- Hydrogen Peroxide
- Ozone
- Isothiazolones



MONITORING SYSTEM

On all applications, we recommend a monitoring system to continuously gauge the effectiveness of the applied Biofouling control regime. H2O BFS offers the most advanced Biofouling monitor system on the market. Our system takes actual velocities and materials of the clients' cooling water system into account, giving them a representative insight into the risks of Biofouling settlement. Our optional microfouling monitor can be applied for increased protection for corrosion inducing microfouling species.

BENEFITS OF WORKING WITH H2O

A Complete Solution

Only H2O offers a complete solution to Biofouling control, combining the most effective dosing recommendations coupled with turnkey new system supply, retrofit, or refurbishment of existing dosing and biocide generating equipment including sodium hypochlorite generators.

Experienced, Diverse Team

H2O has put together a team of some of the most experienced engineers and biologists in the world having authored dozens of academic articles and implemented hundreds of Biofouling control systems across the globe.



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