



# Economical and Ecological BIOFOULING SOLUTIONS

To mitigate and prevent  
biofouling risk  
in industrial water systems

Acknowledged by the EU environmental regulatory  
bodies, global O&G, Power and Chemical  
companies as Best Available Technique (BAT)



## Ecodosing™ Benefits

### Environmental:

- CO<sub>2</sub> Emission reduction (1.000 to 5.000 ton per year).
- Reduced discharge of biocides and its byproducts up to 50%.

### Economical benefits:

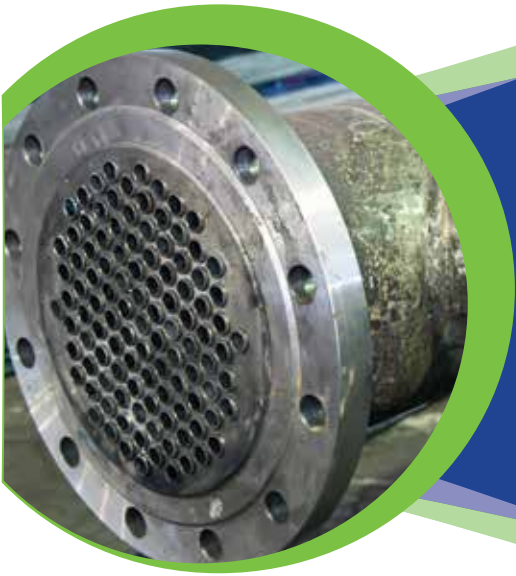
- OPEX cost reduction (30–60%).
- CAPEX cost reduction (10–30%).

### Operational benefits:

- Performance optimization.
- Energy optimization.
- Control and risk management.
- Increase in system reliability (uptime): 10–30%.

### Globally applied at:

- Power Plants.
- O&G (on and offshore).
- Desalination plants (SWRO).
- Heavy and Chemical Industries.
- LNG regasification.



## A complete solution to Biofouling Control

H2O Biofouling Solutions (H2O BFS) provides the most comprehensive solution to biofouling related operational problems (e.g. clogging or corrosion).

H2O BFS offers custom-tailored dosing recommendations such as:

- biocide dosing regime specifications.
- biocide (generation) specification.
- biomonitoring services to achieve real time insight into effectiveness.
- biocide dosing system design.
- implementation support.

## Best available technique

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.

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



## The Biofouling Process

With seawater, a variety of marine biofouling organisms enter the intake system as a larvae, often during a specific period of the year. Intake structures are in general, an ideal environment for settlement and growth of marine biofouling organisms. Marine biofouling results in an increased wall roughness and reduction of the inner pipe diameter which, in turn, leads to a significant head loss in the intake structure. This has a high impact on the operational reliability of the intake system and often results in an unplanned shutdown.

### By controlling biofouling you:

- Maximize continuity of operations.
- Improve plant performance.
- Reduce operational cost.
- Reduce CO<sub>2</sub> emissions.

## Monitoring systems

H2O BFS offers the best way to monitor biofouling and therefore control the condition of the cooling water system.

We have the most advanced biofouling monitor systems on the market that will allow you to optimize and minimize risk in your installation and guarantee operational reliability.