



# KEEPING THE PLANET BLUE



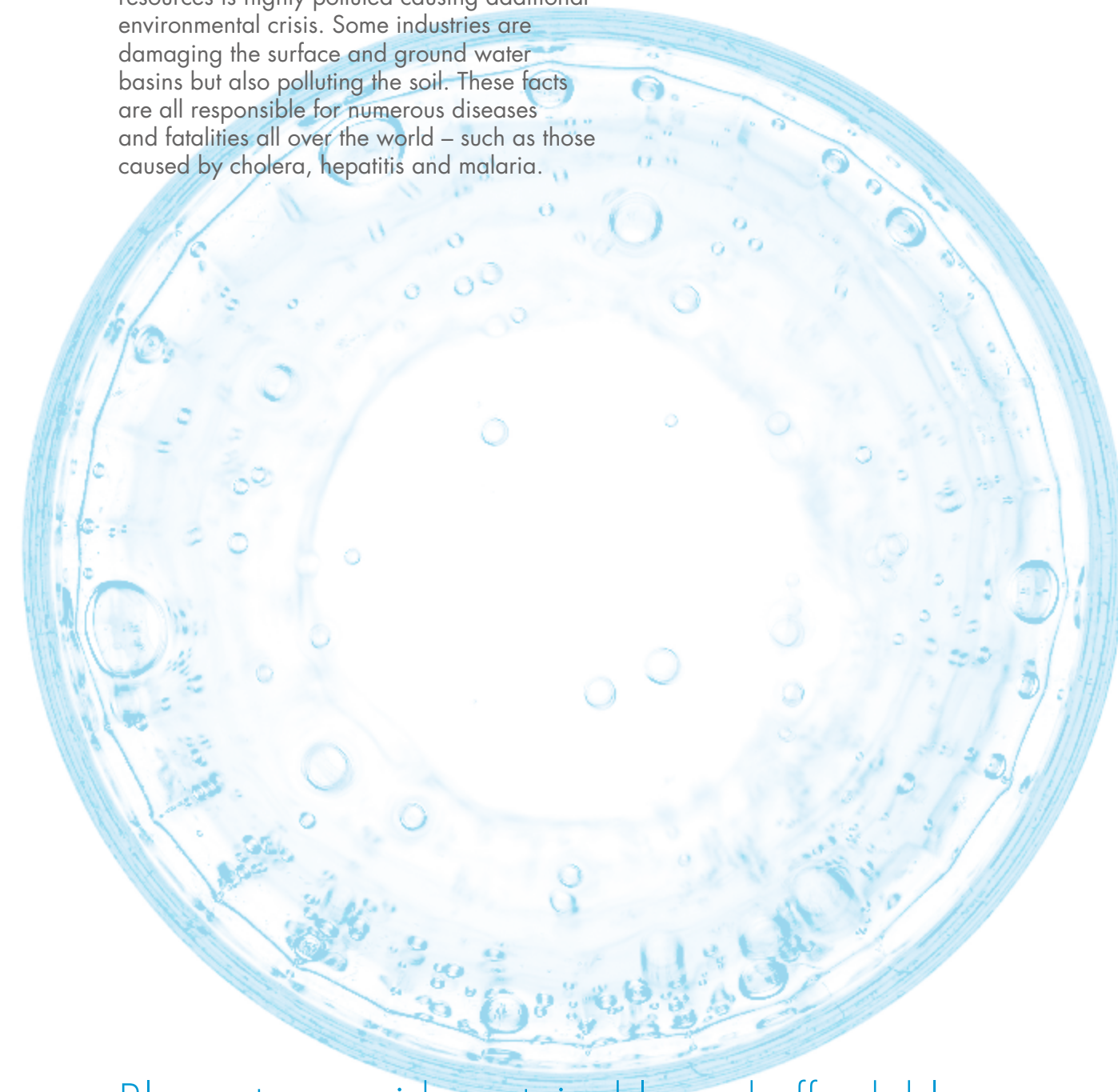
**BLUEMATER**  
ECO-EFFICIENT SOLUTIONS



KEEPING THE PLANET BLUE

# IT'S IN OUR HANDS

Water scarcity is the most burning issue of the 21<sup>st</sup> century. Most of the world's population is lacking access to potable water and only a fraction of the cities has a developed sanitation system. An important part of water resources is highly polluted causing additional environmental crisis. Some industries are damaging the surface and ground water basins but also polluting the soil. These facts are all responsible for numerous diseases and fatalities all over the world – such as those caused by cholera, hepatitis and malaria.



Bluemater provide sustainable and affordable water treatment solutions to deliver safe water resources to the people and protect the environment.



At Bluemater we believe that everyone can contribute to the conservation of the planet natural resources. In our philosophy, business and sustainability are strongly attached. We aim to be an example for other businesses regardless of the industry they are active in. We work for a positive change in the environment, the society and the economy as well.

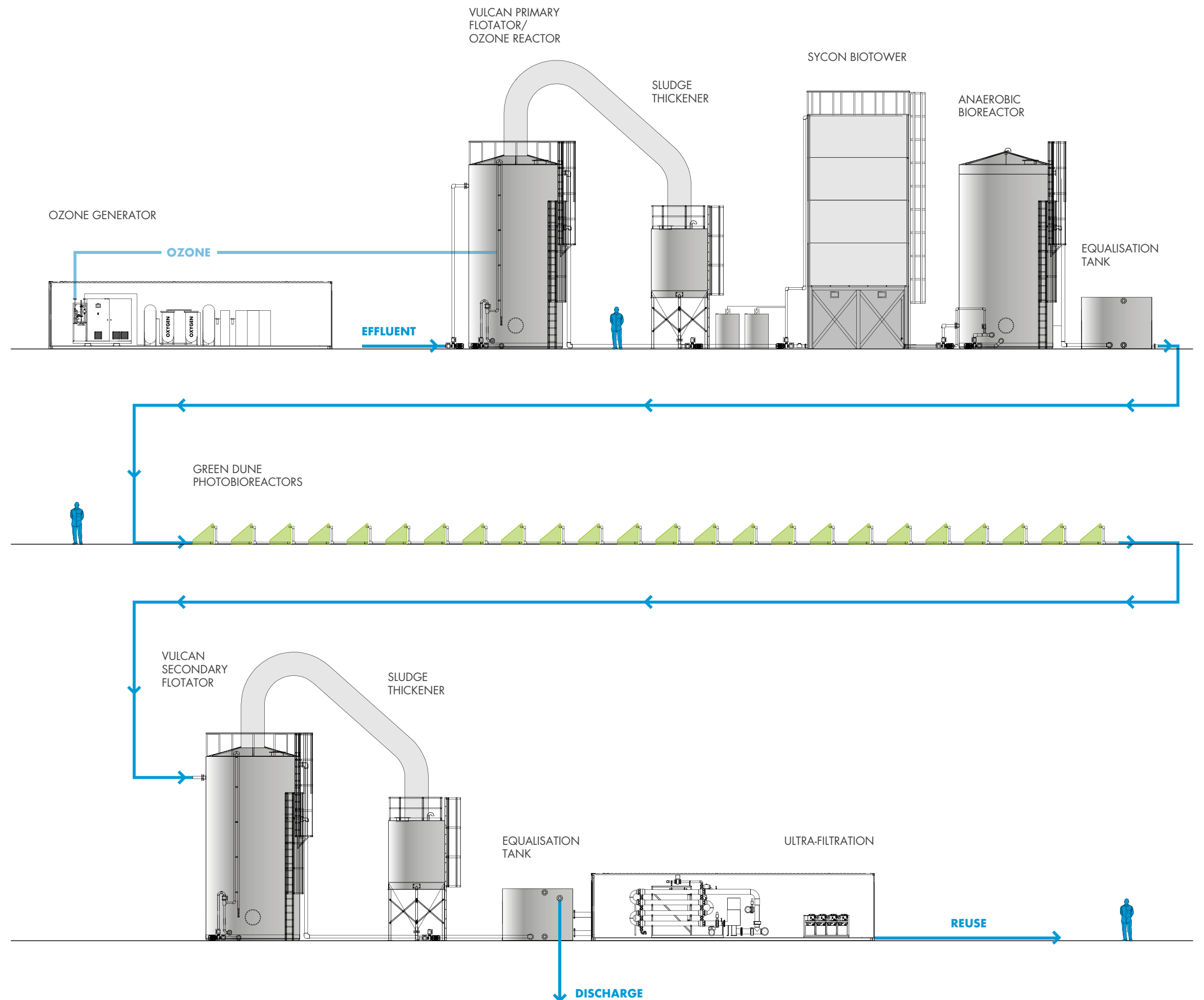
# OUR SOLU\_ \_TIONS

Bluemater's portfolio offers solutions to various issues linked to the water and air pollution. We offer water, wastewater and gas treatment technologies for local governments, private and public companies and also to the industries. All Bluemater's solutions are based on sustainable biological treatments and are tailor made for each customer need. Affordability is in the core of our R&D activity, therefore both investment and operational expenditures are taken into consideration.

# WASTEWATER TREATMENT

## ALGAMATER® WWTP

ALGAMATER® WWTP is an innovative wastewater, leachate and aquaculture treatment plants. Bluemater's exclusive bioremediation and CO<sub>2</sub> capture system. It uses only biological treatment processes including polishing by microalgae. The main components of the treatment line are modular and available to be integrated in existing or new alternative systems.



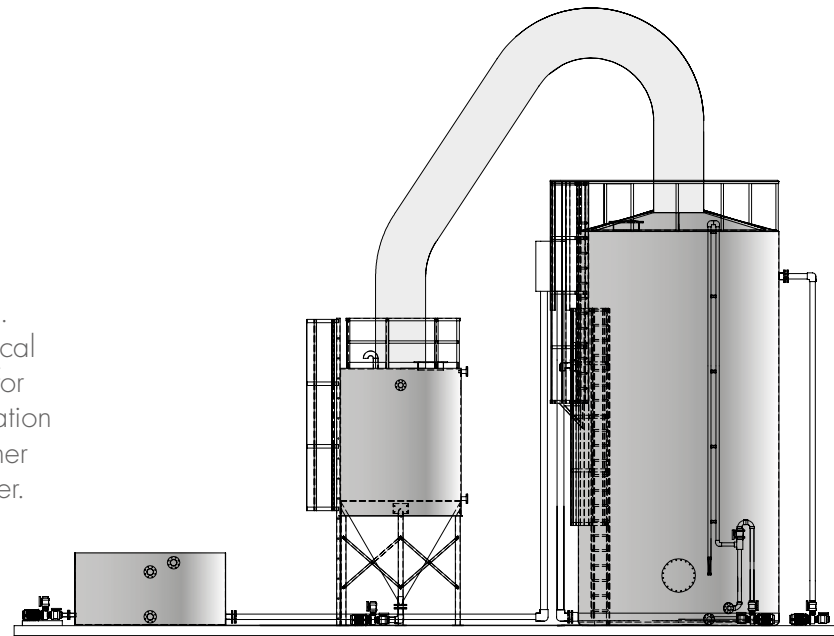
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 767333

# WASTEWATER TREATMENT

## ALGAMATER® WWTP (COMPONENTS / EQUIPMENT)

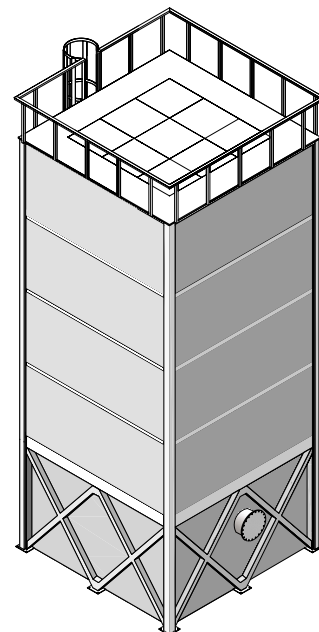
### VULCAN® Flotator

The VULCAN® Flotator incorporates an innovative foam liquefying system. It has been designed to avoid chemical usage. It can be effectively applied for sludge flotation, for Advanced Oxidation Processes (AOP) with ozone or another oxidant, and also as a biological filter.



### SYCON®water Biological Tower

The SYCON®water Biological Tower is a percolation reactor developed by Bluemater. It is filled with a percolation media and acts like a biological filter for the aerobic treatment of effluents. The highest efficiency is achieved when it's filled with NATANTIA® Biocubes.



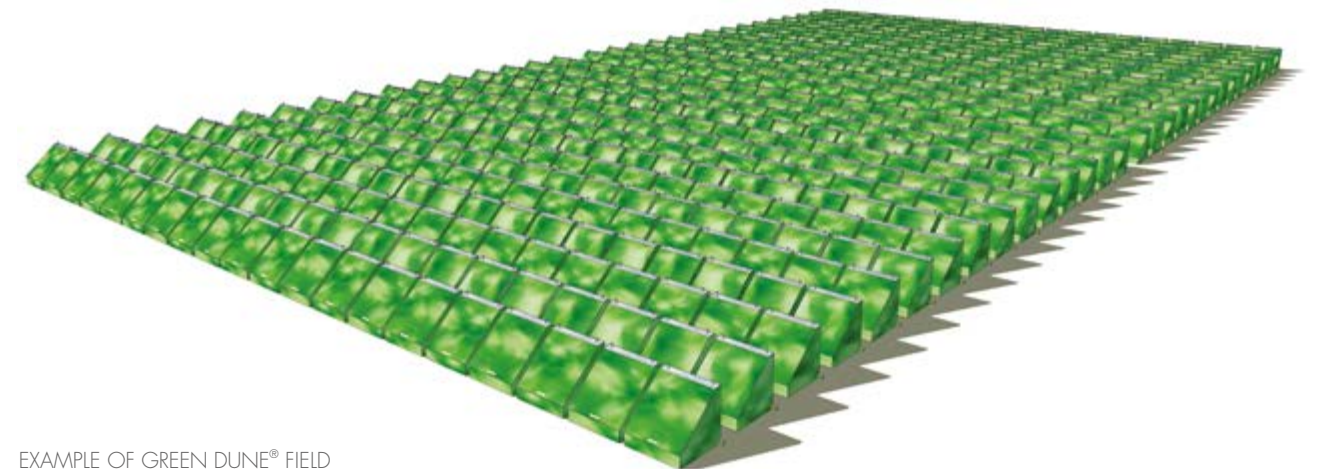
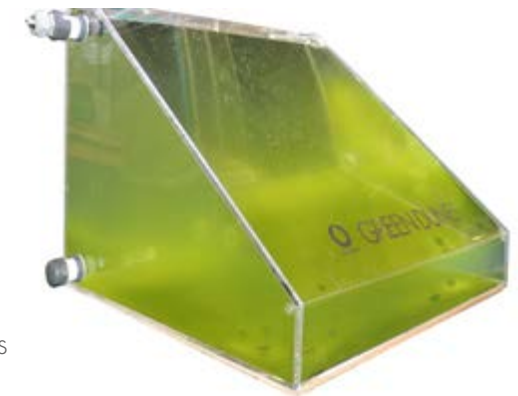
### NATANTIA® Biocube



NATANTIA® Biocube is an innovative percolation filter media developed by Bluemater. It's assembled in a modular way, ready to be placed in existing or new percolation towers. For an optimized operation we recommend to use it within Bluemater's SYCON®water Biological Tower.

### GREEN DUNE® Photobioreactor

GREEN DUNE® is a prismatic photobioreactor for microalgae culture that ensures a highly efficient final polishing at WWTP's, bioremediation, CO<sub>2</sub> capture or algae culture. It has been designed to offer a substantial treatment volume, while requiring significantly less space than cylindrical photobioreactors or pond systems. GREEN DUNE® is cost efficient to install and operate. It's a modular system that can easily be placed side by side resulting in fields of bioreactors



EXAMPLE OF GREEN DUNE® FIELD



## WASTEWATER TREATMENT

### SYCON®compact Biological Tower

SYCON®compact Biological Tower is built in GRP and filled with the NATANTIA® Biocube. Its functioning is based on the percolation NATANTIA® Biocube, which removes water pollutants, such as ammonia, nitrates, phosphates, BOD<sub>5</sub> and COD. It presents a low power consumption and maintenance, since the percolating system is self-cleaning.



### BMcompact WWTP

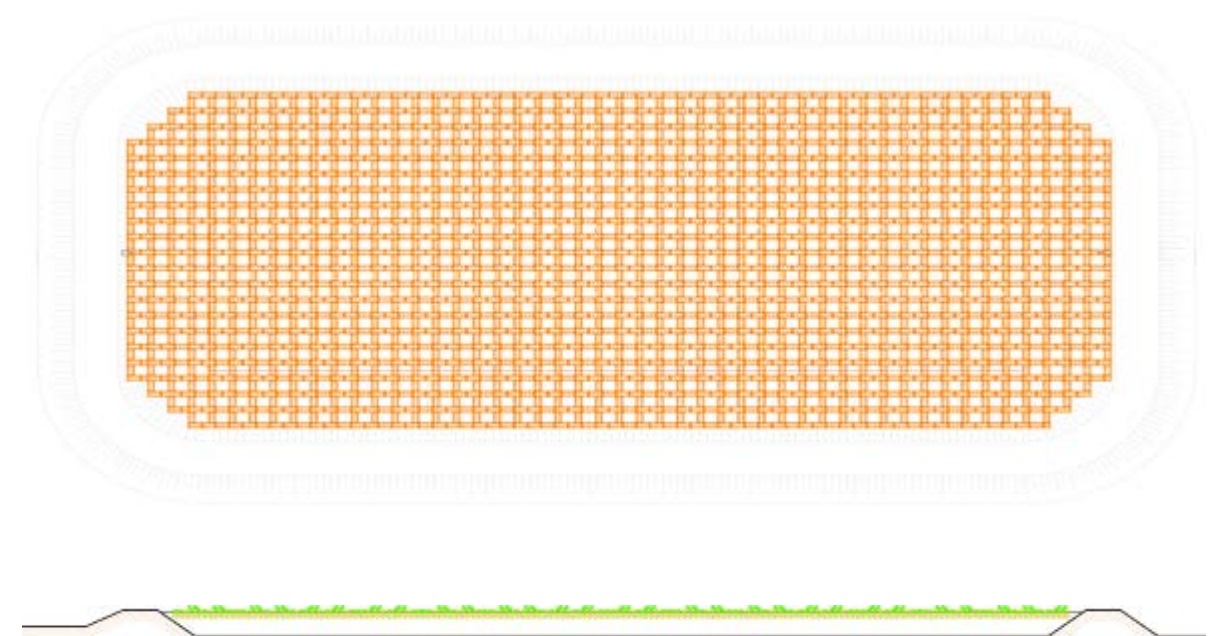
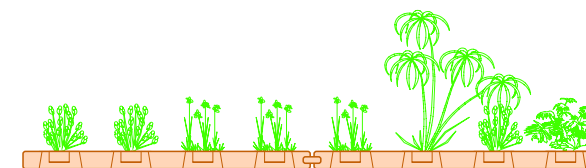
The BMcompact WWTP is built in GRP and it's based on the SYCON®compact Biological Tower, filled with the NATANTIA® Biocube, both Bluemater products. It's a complete system with containerized primary screening and sludge dewatering, removing water pollutants such as ammonia, nitrites, phosphates, BOD<sub>5</sub> and COD. It presents a low power consumption and maintenance.



## HYDROPONICS BIOREMEDIATION WATER TREATMENT

### CORK FLOATING ISLAND®

Developed by Bluemater in collaboration with Amorim Cork Composites, CORK FLOATING ISLAND® is specially designed for bioremediation in wetlands, rivers and dams but also used as phyto-based pond wastewater treatment and hydroponics. The support structure is made of cork, which makes it a sustainable and durable solution in addition to create an aesthetically pleasing aspect.



Floating cork WWTP.

# OTHER SOLU\_ \_TIONS

## CORKSORB

A 100% natural and Sustainable cork absorbent manufactured by Amorim Isolamentos SA. Corksorb will absorb oil and NOT water due to the hydrophobic characteristics. Corksorb products absorb instantly on contact decreasing the risk of environmental contamination and are suitable for all fuels and hydrocarbons.



## ADVANCED MEASUREMENT AND CONTROL SYSTEMS

S::can products measure a wide range of parameters in numerous applications. From a very solid-state pH-probe to a highly innovative spectral probes, all S::can products are developed with the same philosophy in mind: S::can measuring instruments are intelligent, robust and require little or no maintenance. They can be seamlessly integrated with other S::can systems but are also compatible with third-party systems.



## ULTRAFILTRATION

Bluemater offers compact modular treatment solutions of ultrafiltration for drinking water or wastewater. In all ultrafiltration systems commercialised by Bluemater, advanced disinfection (with ozone or electrolysis) and automatic cleaning system, or Clean In Place (CIP) are included.



## REVERSE OSMOSIS

Bluemater offers high quality reverse osmosis systems for water desalination and treatment of highly polluted industrial wastewaters.







# PLANET EARTH IS BLUE AND THERE'S A LOT WE CAN DO

At Bluemater we believe that as nature pollution comes from human beings the solution should also come from human beings. This is our vision and the reason we work every day.

*"Nature has no 'pollution'. This is a word coined in human ignorance regarding the presence of the right chemicals being released in the wrong places by those who profit only through selfish preoccupation and non-consideration of others".*

Buckminster Fuller, Critical Path, 1983

To learn more about our solutions and how we can contribute to the environmental friendly operation of your organization, get in touch today!





# BLUEMATER

ECO-EFFICIENT SOLUTIONS

## **PORTUGAL**

Rua Aníbal Cunha, 263  
4050-049 Porto, Portugal  
T: +351 220 990 516  
[info@bluemater.com](mailto:info@bluemater.com)

## **ANGOLA**

Rua Principal ou rua longa, Casa 54  
Jardins do Éden - Camama, Luanda, Angola  
T: +244 938 559 899  
[fgomes@bluemater.com](mailto:fgomes@bluemater.com)

## **FRANCE**

MIBI  
672 Rue du Mas de Verchant  
34 000 MONTPELLIER  
T: + 33 6 52 83 52 64  
[alexmartincocher@bluemater.com](mailto:alexmartincocher@bluemater.com)

[www.bluemater.com](http://www.bluemater.com)