

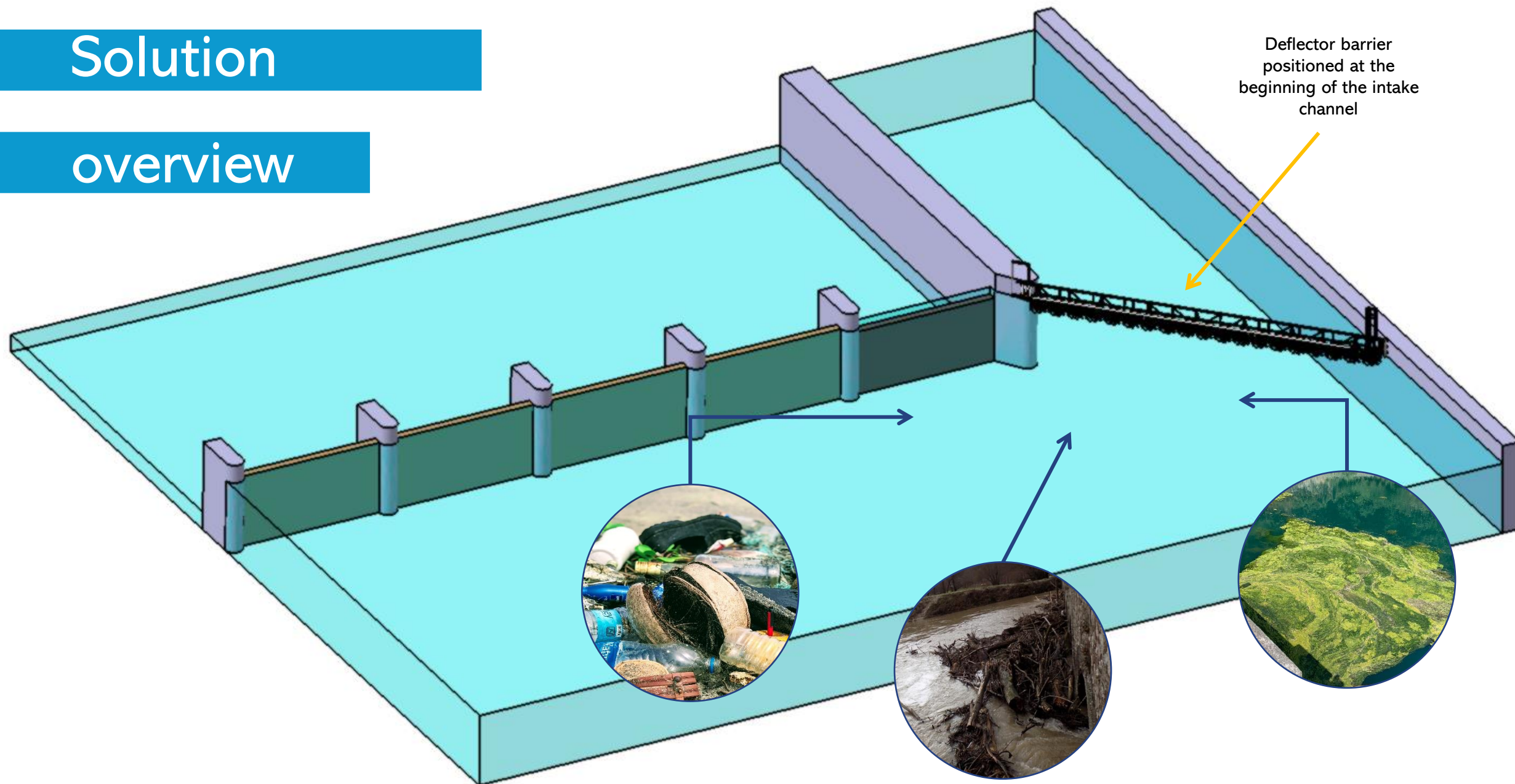


river cleaning

r-evolution in the water

Solution

overview





What can we find in our rivers?

From mountains to the sea, rivers are a vehicle for all kinds of debris, be it natural or man-made.

Large trees and branches, algae formations and even some litter: you can see it all before dams.

The same happens in the water intake basins of hydroelectric plants, where the material clogs up near the screens before turbines.

Maintenance and disposal, the plant-burdening costs.

All the debris which accumulates before the power-generating turbines increases O&M costs:

- ❑ Debris needs to be collected frequently, and this leads to production stops. Moreover, 85% of debris are organic and a precious resource for the riverine ecosystem.
- ❑ The disposal of such debris is an expensive matter.





How to solve the problem?

Avoid it.

With this new solution, all the clogged material you are forced to remove can be directed from the intake channel to the river itself.

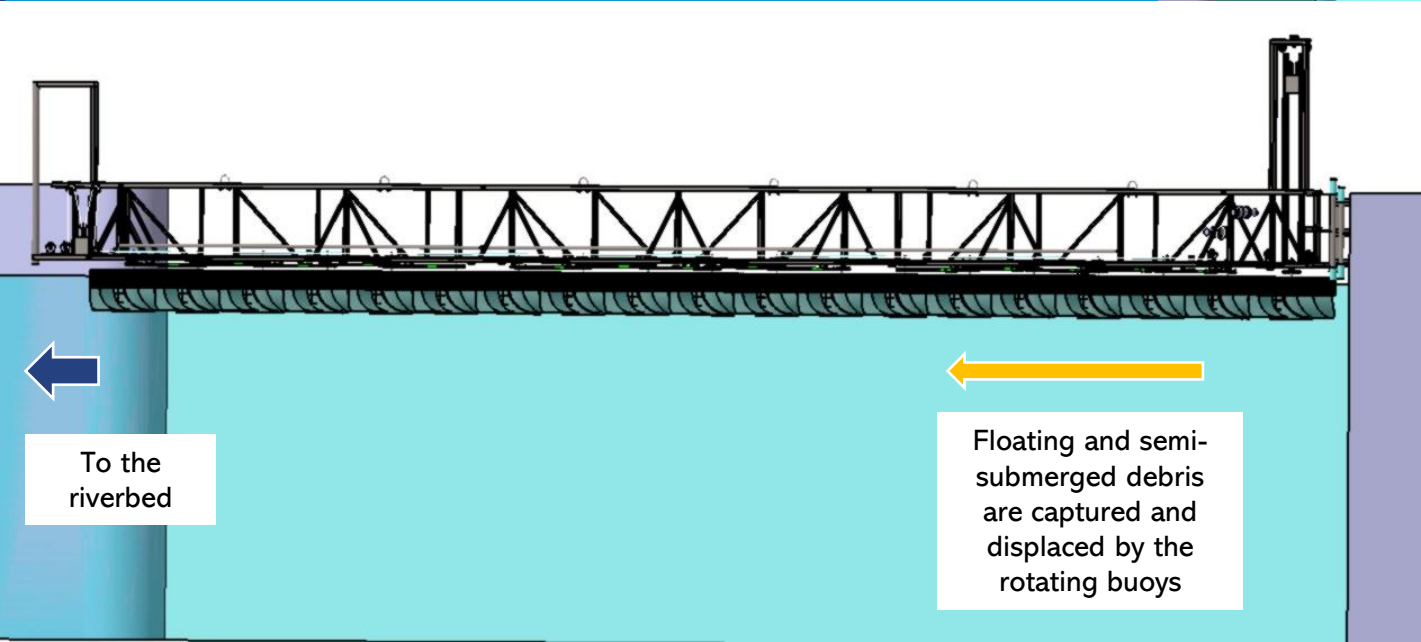
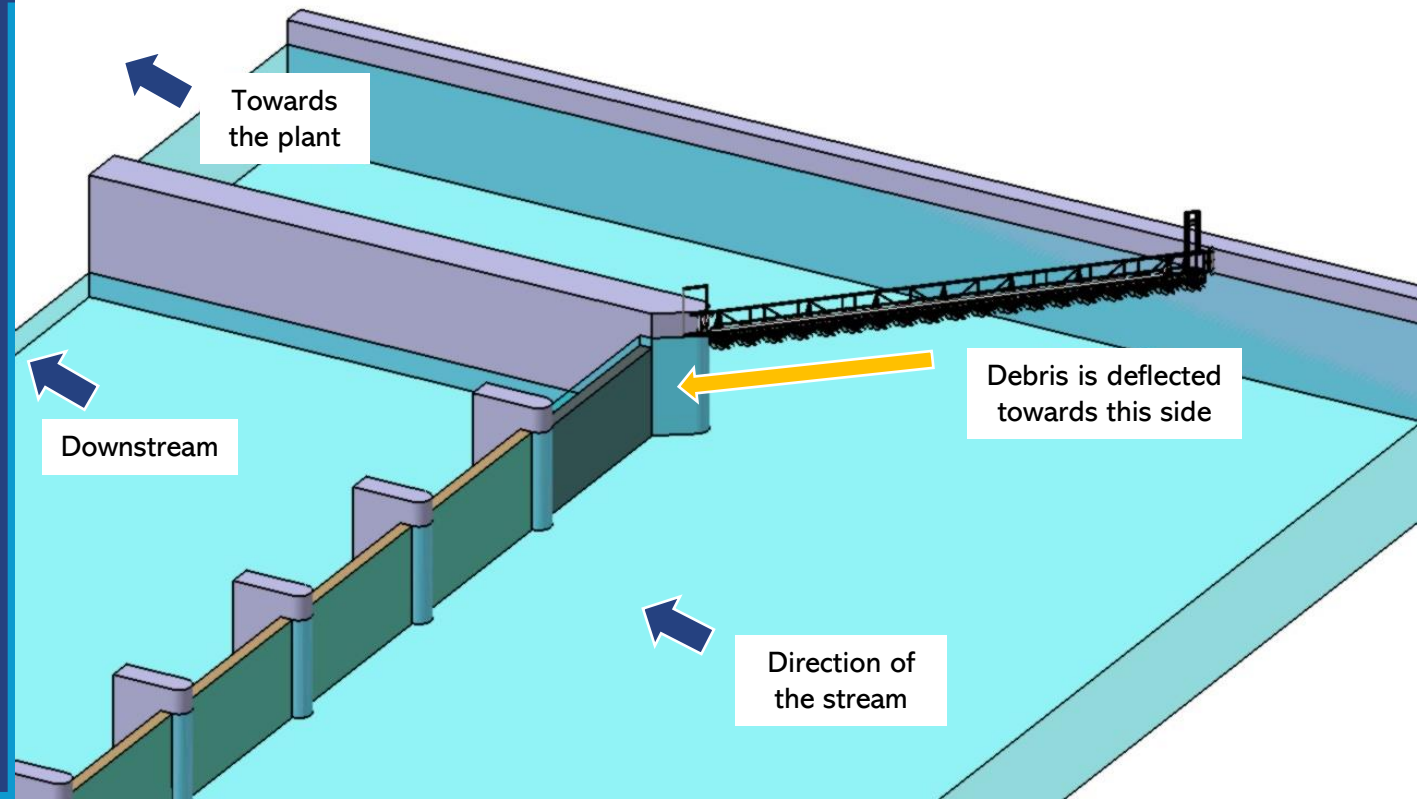
The unharmful natural material is now free to flow downstream and does not represent neither a problem nor a cost for the power plant.

For this reason we created
River Cleaning Deflector.

River Cleaning

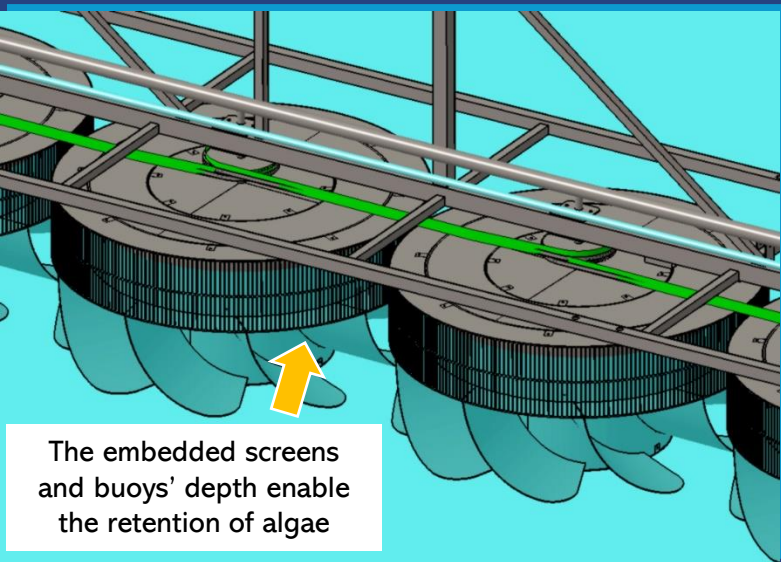
Deflector:

How does it work?

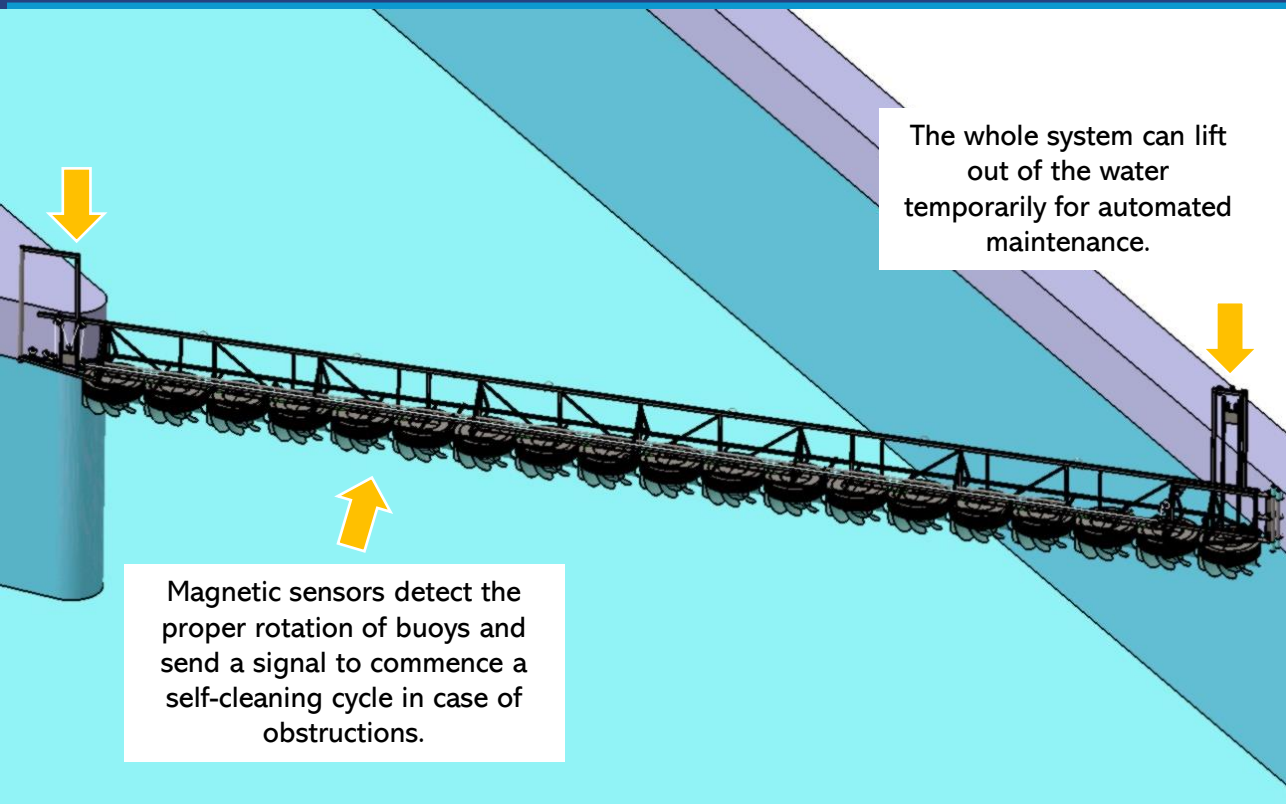


River Cleaning is a smart barrier made by floating modules and an anchoring structure. Each buoy is equipped with turbine-like blades and spins on itself, blocking debris and displacing it at the same time. **Its tested efficacy reaches 95%.**

* According to the results of the tests carried out by the University of Palermo.



The embedded screens and buoys' depth enable the retention of algae



The whole system can lift out of the water temporarily for automated maintenance.

Magnetic sensors detect the proper rotation of buoys and send a signal to commence a self-cleaning cycle in case of obstructions.

Our winning formula:
simplicity, effectiveness,
control.

The 45° positioning provides the best performance.

We equip the barrier with rotation-detecting sensors, electro mechanical lifting and video surveillance for remote monitoring. It is our method to ensure full control, safety and as little O&M as possible.

Summing up:

why prevent?

Average hydroelectric power plants spend around 200k € per year for maintenance. Add another 20k € per year for waste disposal.

Why shoulder these costs if they can be avoided with a convenient investment?

With River Cleaning Deflector you can save money and produce more energy.





Tailor-made projects and prices.

We tailor all our solutions to the specific needs and requirements of the client.

We offer leasing options for our customers: our system, installation, extraordinary maintenance and insurance all included at a monthly fee.

Tell us what you need and we will create a solution for you.

Find us at:

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To learn more about other River Cleaning
technologies: www.rivercleaning.com

