

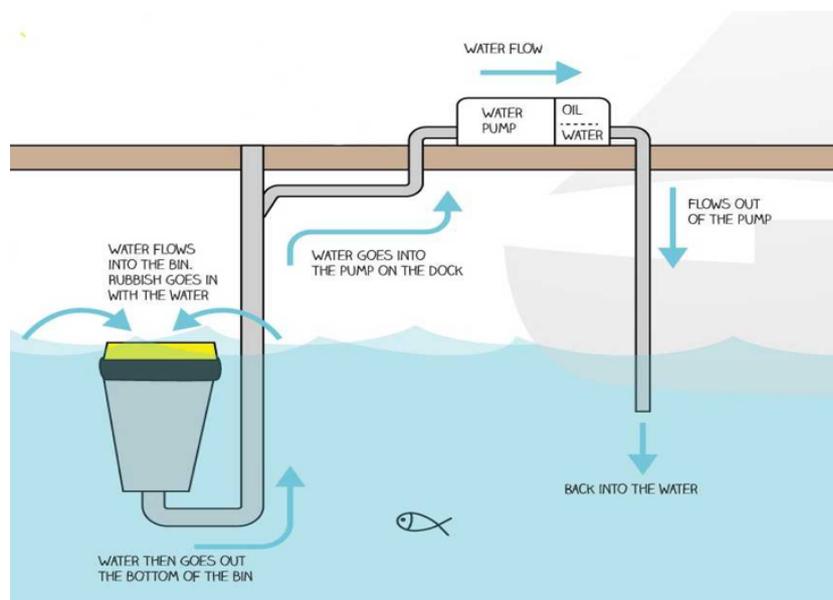
SEABIN

WHAT IS THE SEABIN PROJECT?

This project first started with two Australian surfers who were concerned about the high waste levels in the sea. It has been invented around 2016, starting with minimal amount of resources and knowledge. However, it became possible with many people sharing the same thought to conserve our environment. The Seabin project is an innovative solution for cleaning the marine ecosystem. The main concept behind the project is to prevent chemicals and waste products from harming marine animals, habitats, and eventually the food chain. Currently, it is a much more time efficient way to clean wastes compared to marine workers walking around with a scoop net. This technology ensures a sustainable way to reserve our marine ecosystem.

HOW DOES IT WORK?

The Seabin itself is built with recycled materials, and it is fixed to a dock. A water pump installed in the bin, which runs on shore power, sucks water from its surroundings, forcing waste matter on the water surface to enter its interior. The pump is capable of bringing in debris from 2 to 6 meters away, which is very impressive! Eventually the natural fiber bag attached in the bin filters everything floating in the water, from plastic bottles to oil and detergent. Filtered water leaves from the bottom of the bin through a water pump. The water pump leads water to the dock, where oil and water are separated. In the final step, purified water is sent back to seawater. The technology itself is very simple, as it uses a water filtration system along with a water pump mechanism.



WHY IS IT IMPORTANT?

Water is essential in life. It takes up an integral part of our lives, and it is even nearly impossible to spell out its importance. However, water pollution is one of the most severe threats we face in our everyday lives. From littering to spilling oil, the cause of water pollution is numerous. However, thankfully, there are sustainable technologies that can help alleviate the negative impacts, and the Seabin project is one of them.



The Seabin is worth noting because of its high energy efficiency compared to many other water filtration systems. Also, it is easily manageable, thanks to its simple mechanism and sustainability. As it runs on a tidal power source, it can be run 24 hours a day without having to worry about electricity bills! The Seabin is a newly rising fully-sustainable technology. Although it is only used near docks, we are hoping to see it float in the open ocean within 10 years from now. It is surely a technology to keep an eye on.