

High-tech and aid organisations in unique cooperation - paradigm change to water recovery:

- Converted oil tankers providing fresh water

Lack of clean water in many areas around the world has led to a unique industrial innovation and a new cooperation between innovators and development organisations. Star of Hope will provide floating water plants to regions with scarce water supply, such as Haiti, Kenya and Philippines.

- When this innovative outside the box solution appeared, we were investigating new ways of dealing with water supply issues for communities and cities where we have been involved in emergencies and long-term efforts, V.P. Mark Presson (Star of Hope) says.

- For some time we have been struggling with the problems lack of water creates - as the global problems on this issue have been increasing. The EnviroNor solution might bring an incredibly innovative and mind-changing solution to the water problem, Presson says.

-Star of Hope is an international development organization, working on four continents. Star of Hope is a Non-Profit organisation and a USAID approved partner.

- We are very happy to contribute to solve critical clean-water issues by this new industrial technology, president of Star of Hope USA **Barry Borrer** says. – We will use our experience and our regional network to make new water supplies available by the floating water plants. If we at the same time can reduce the large quantities of untreated wastewater running into the world's oceans and rivers, threatening both the environment and human health, this is even better.

“Aqua Recovery” will use phased out tankers anchored offshore for recycling of wastewater. By converting, for example, a 15-year-old product tanker can treat the wastewater from a city of 250.000 inhabitants. Sigmund Larsen, an experienced Norwegian senior shipping officer, CEO of tech start-up EnviroNor, developed the idea and founded the company.

- We are looking forward to the close cooperation with Star of Hope, **Sigmund Larsen** states, explaining the idea of EnviroNor: - The technology comes from proven technology and solutions from industries like, maritime, oil & gas, water and process industries. By combining the best solutions from these industries, we believe we can solve many of the water challenges present today. Whether it is treatment of wastewater, re-use of wastewater, treatment of river or seawater, converting to drinking water, Larsen says.

- Star of Hope for decades has shown their capacity to help people develop their civil societies in all parts of the world – as well as bringing emergency aid to catastrophes of all kinds - and we are very comfortable with their assistance to reach cities and regions with new water solutions, Larsen says.

“Aqua Recovery” is a part of the DNV GL Extraordinary Innovation Program, aimed to solve the enormous global water challenges due to urbanization and population growth. DNV GL is the world's largest ship and offshore classification society, the leading technical advisor to the global oil and gas industry, and a leading expert for the energy value chain including renewables and energy efficiency, and one of the leading certification bodies in the world. The Red Cross and World Wildlife Fund (Norway) are also partners in the development.

FACT SHEET:

There will be four categories of vessels in “Aqua Recovery” (all pictures attached):



The “Reliever”- a converted ship that can treat wastewater, for example while a land-based plant is being modified, expanded or repaired. Typical need: a slightly developed country with unsatisfactory treatment capacity.



The “Changemaker”- a treatment plant that treats wastewater from domestic and industry and reuse the water for irrigation or industrial purposes. It can even be cleaned to drinking water standard. This allows more water for drinking. Typical areas can be; the Mediterranean.



The “Water Factory”- polluted river water will be treated until it has drinking water quality. Typical need: rivers in China and other densely populated places where drinking water is in short supply.



The “Emergency Relief Vessel” - Producing clean drinking water for the population in catastrophic areas, by converting seawater into drinking water. After earthquakes, tsunamis, flooding e.g. onshore-based water supply and water infrastructure is not able to provide the local community with sufficient drinking water.

Supplementary facts:

- Adding 20 years to the lifecycle of old ships ranging from barges to oil tankers that would otherwise go to a scrapyard
- Addressing the scarcity of land by using the vessels as floating wastewater plants
- Tailor-made solutions for riverside and seaside populations by using appropriately sized vessels
- Reducing pollution of our water bodies while providing potable water
- Providing a solution to different kinds of water needs that can be used in a targeted manner, whether for industry or for irrigation
- Cost effective, mobile, easy, and quick to build – especially in relation to land-based structures, this just needs the inlet and outlet piping built on land.

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