

# Low-Cost Water Purification System for Developing Countries

Local water tech start-up Atera Water and scientists from NTU and the Singapore Institute of Technology (SIT) have developed a new type of membrane-based water filtration system for large-scale clean water production that is more affordable.

In addition, the new system has only half the carbon footprint of conventional water treatment plants. This is made possible through an efficient nanocomposite membrane



named CLARITY, made using common polymers at a fraction of the cost of the more expensive membranes used by developed nations.

It aims to replace the rudimentary sand filter systems used in many regional countries such as Vietnam and Indonesia, which are currently struggling to clean the increasingly polluted groundwater.

The new Made-in-Singapore technology can provide cleaner water at a similar cost and Atera Water has already received a contract to build a large system capable of supplying piped water to 30,000 people in Vietnam.