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| <b>Title of case study</b>                         | <b>SkyHydrant Water Purification Technology</b>   |
| <b>Name of organization(s)</b>                     | <b>Siemens</b>  |
| <b>Business sector</b>                             | Science and Technology  |
| <b>Region(s) relevant to case study</b>            | <input type="checkbox"/> All regions<br><input checked="" type="checkbox"/> Africa and the Arab States<br><input checked="" type="checkbox"/> Asia and the Pacific<br><input checked="" type="checkbox"/> Caribbean and Central America<br><input type="checkbox"/> Europe<br><input checked="" type="checkbox"/> Least Developed Countries<br><input type="checkbox"/> North America<br><input type="checkbox"/> Polar regions<br><input type="checkbox"/> Small Island Developing States<br><input checked="" type="checkbox"/> South America   |
| <b>Country(s) relevant to case study</b>           | Multiple  |
| <b>Adaptation sector(s) relevant to case study</b> | <input type="checkbox"/> Business<br><input type="checkbox"/> Education and training<br><input checked="" type="checkbox"/> Food security, agriculture, forestry and fisheries<br><input type="checkbox"/> Human health<br><input type="checkbox"/> Oceans and coastal areas<br><input checked="" type="checkbox"/> Science, assessment, monitoring and early warning<br><input type="checkbox"/> Terrestrial ecosystems<br><input type="checkbox"/> Tourism<br><input type="checkbox"/> Transport, infrastructure and human settlements<br><input checked="" type="checkbox"/> Water resources<br><input type="checkbox"/> Other (please specify):   |
| <b>Adaptation activity</b>                         | <p>Scarcity of clean water is an ever-increasing global problem and is already being exacerbated by climate change. To help the UN achieve its goal of reducing the number of people without access to clean water to one half of today's level by 2015, a team from Siemens Water Technologies has developed the portable water-purification system SkyHydrant and established the <a href="#">SkyJuice Foundation</a> to ensure the system will be used effectively in developing countries and disaster areas.</p> <p>SkyHydrant purifies unclean water by pumping it through a membrane of ultra-fine fibers. It can produce up to 20,000 litres per day of exceptionally pure drinking water</p> |

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|  | <p>that surpasses World Health Organization (WHO) quality specifications.</p> <p>To date, the SkyJuice Foundation has installed around 450 water purification units throughout Sri Lanka, Indonesia, East Timor, Nepal, Pakistan, Thailand, Oman, Kenya, South and Central America and India. The systems are installed in schools, hospitals, clinics, internally displaced persons camps and villages. Thousands of people now have access to continuous, safe drinking water.</p> <p>Siemens has also assisted the Singapore government in supplying much needed fresh drinking water as about half the country's requirement of water currently needs to be imported from Malaysia. Siemens provides a wastewater purification system which filters water to required World Health Organization (WHO) and the U.S. Environmental Protection Agency (EPA) standards. A water purification plant in Kranji is now being expanded. By 2012, its capacity will be boosted to 210,000 m<sup>3</sup> per day in order to meet 20 % of the city's water requirements.</p> |
| <p><b>Cost-benefit</b></p>   | <p>The SkyHydrant system does not require electric power or purification chemicals, and with an annual cost of less than 20 euro cents per person, it is affordable for even the poorest communities in developing countries, including those communities affected by climatic disasters. It is therefore a business model with good potential for Siemens.</p> <p>The expansion of the Kranji water purification plant is possible because the Siemens' recycling process is cost-effective and much cheaper than other water purification methods such as desalination. Concerned about water resources, a number of delegations from other Asian countries have also expressed interest in this technology.</p>   |
| <p style="text-align: center;">CLICK FOR MORE INFO</p>  |  |



Source: [www.skyjuice.com.au](http://www.skyjuice.com.au)