WATERSPOUTT

Solar Ceramic Combined Household Water Treatment System

Water Sustainable Point of Use Treatment Technologies (WaterSPOUTT) is a 4 year research project across 18 institutions exploring opportunities for large volume treatment of drinking water using solar water disinfection. In Malawi, the project is focussed on the development of a combined solar and ceramic filtration treatment system

The situation

1.7 million people in Malawi do not have access o safe drinking water

1,700 children die each year in Malawi from diseases related to unsafe water and poor sanitation

Solar water disinfection (SODIS) can be used to effectively treat unsafe water making it safe for consumption

Ceramic filters can be used to treat water but they may not remove viruses and some pathogens

The research project

Understand the context of water access, use, governance and quality

Design of solar ceramic filtration system using local materials and end user input

Evaluate the prototype design to ensure it is safe and effective

Finalise prototype design

Product design

Identification of 750 households in Chikwawa District to test system

Test system and health impact at households for 14 months

Evaluate all data on system and health impact

Report and scale up and commercialisation

Field testing and evaluation

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