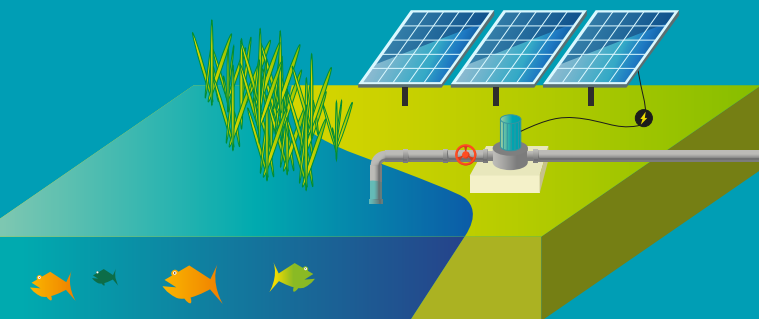


Solar Powered Water Treatment and Solar Ice Production – WeTu

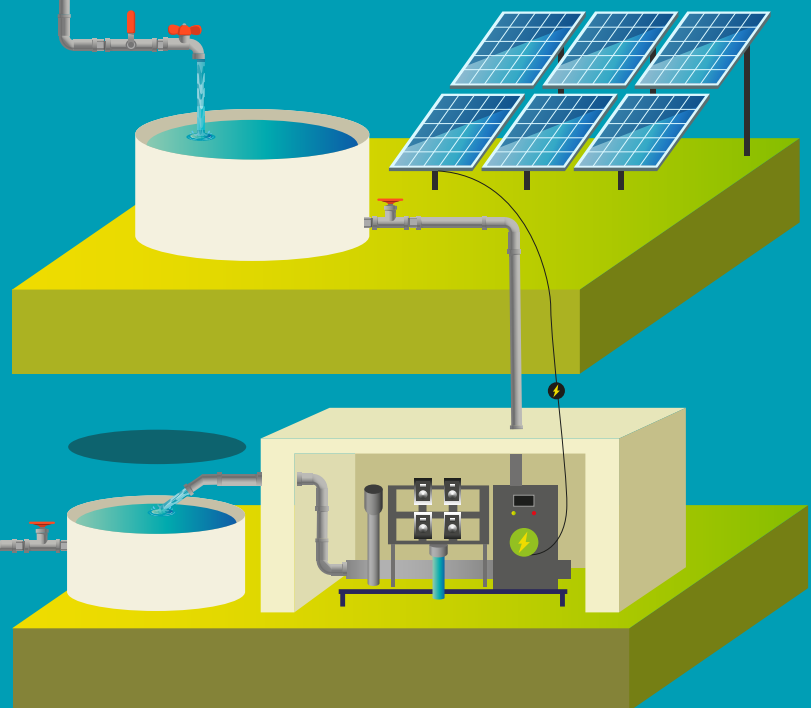


Abstraction of Lake water with Solar Pump

- Water is pumped from the Lake Victoria to the water treatment station at the Mbita - Hub
- Lake as a water source is very reliable, however, the water is contaminated and needs treatment

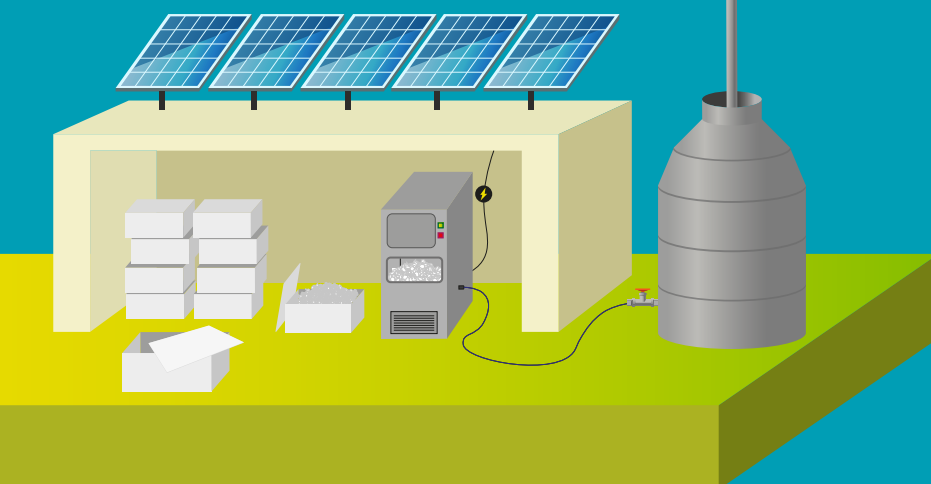
Solar Powered Water Treatment

- Pumped water is stored in a reservoir
- Water is brought from the reservoir to the water treatment system, powered by a solar pump
- Water treatment by:
 - Pre-filter (sand filter or disc filter)
 - Ultra filtration
 - Active carbon filter
 - UV disinfection
- Clean water is stored in a reservoir
- Consumers can register with WeTu and purchase water 24/7 at water ATMs.
- Solar powered water treatment allows the usage of lake-water for household consumption



Solar Ice Production

- Part of the treated water is used for the production of ice, powered by solar energy
- The water flows from a storage tank into the ice-flake machine
- Produced ice is sold to fishermen, processors or market women
- Excess solar energy from the WeTu Hub in Mbita is used to produce ice at a very competitive price



More information at: www.we4f.org
Contact: macben.makenzi@giz.de

