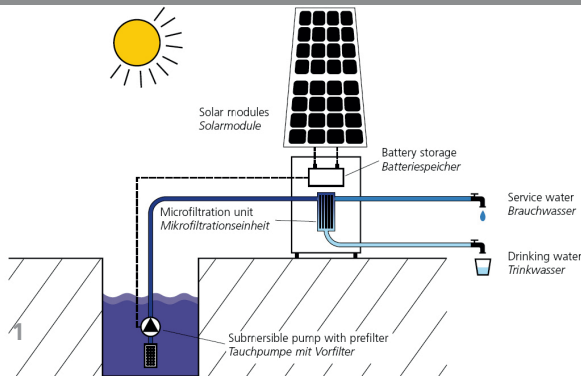




FRAUNHOFER WATER SYSTEMS ALLIANCE (SYSWASSER)



1 Functional principle of the WATERpps.

2 WATERpps at a test side in Germany..

WATER PUMPING & PURIFICATION SYSTEM (WATERPPS)

Fraunhofer Water Systems Alliance (SysWasser)

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1.3 billion people around the world lack clean drinking water. Two billion people live without access to a power network.

The solar powered WATERpps – Water Pumping & Purification System – enables a fast and simple supply of filtered water and service water in the remote areas of the world.

The WATERpps is able to adjust to different local conditions. Cistern water, Surface water and groundwater can be treated into hygienically improved water and service water can be pumped.

The WATERpps is therewith significantly contributing to the enhancement of living conditions of many people.

The disinfection of water is carried out physically by microfiltration and without using chemicals.

Two PV modules and battery storage reliably supply the WATERpps reliably with energy. This enables an energy autonomous operation close to the water source but far away from the public electricity grid.

Advantages of the WATERpps:

- Standardized measures for transportation,
- Fast implementation through folding mechanism,
- Economic operation without fossil fuel,
- Technically simple maintenance.