

**Want clean water?
Add sun!**



We use the sun to purify water



With 780 million people worldwide relying on unsafe drinking water, the threat of waterborne diseases poses one of the world's biggest public health challenges. The search for water purification systems which are affordable, easy to use and based on a technology that simply works, is an ongoing process, and SolarWave has come up with an innovative solution.

Quite simply, SolarWave uses solar power to purify water. And it's solar power that keeps our water purification systems operative.

However, it's not just about installing a unique technology and hoping that it works. It is important that people understand the benefits of drinking safe water and that local technicians are trained in the proper operation and maintenance of the system. That is why we offer not only technology, but a complete solution – in the form of Good Water projects.

Each Good Water project includes awareness raising, installation, training, operation and maintenance, as well as follow-up and monitoring.

SIMPLE
SAFE
RELIABLE
AFFORDABLE

Hospitals, schools and wherever you need clean water



What makes SolarWave systems so versatile is their integration with a solar power supply. This environmentally friendly way of supplying power makes the systems uniquely suitable for use anywhere. You can set it up in remote rural areas – in sites such as schools, hospitals and communal water points. The system requires no previous infrastructure. One simple set-up and it just works!

Another benefit is that the system is scalable. From the smallest 600 l/h set-up, to a high capacity system that meets the water demands of any institution.

SOME BENEFITS TO CONSIDER

Supplying clean water with Solar-Wave not only improves health but it saves lives.

Other indirect benefits to society and the environment are:

- Reduced use of indoor smoky fires for boiling water prevents burns and lung diseases;
 - Reduced reliance on firewood and charcoal results in money and time savings;
 - Improved health among children
- leads to better school performance and decreased drop-out rates;
- Improved health also means that less money from the family budget is spent on medicines which can, instead, be spent on food, clothes and education;
 - Time savings, improved health and family earnings lead in turn to more sustainable local communities;
 - Reduced reliance on firewood for boiling water cuts down on deforestation which helps reduce CO₂ emissions and mitigates climate change.

Easy to set up Easy to handle In a **sustainable** way



We had just one method in mind when we developed the SolarWave system – the plug-and-play method. One simple set-up and the water is ready to drink.

To ensure that the systems will run long after the installation, we have created the Good Water concept. This means that you not only get the technology – you get a complete and sustainable solution to your water problem.

We start every Good Water project with an awareness campaign tailored to sensitise end-users on the importance and benefits of using safe water. Awareness campaigns are conducted in collaboration with local NGOs, volunteer networks and community leaders.

We make sure that every project site has designated site supervisors from the local community who are trained in the opera-

tion and maintenance of SolarWave water treatment units. SolarWave staff provide technical support and ensure that spare parts are in place throughout the project's entire lifespan.

Technically, this is how it works



DISINFECTION

SolarWave's unique line of water purification systems is based on a proven UV disinfection technology that effectively eliminates microorganisms in water.

The water purified by SolarWave meets the standards for safe drinking water set by the World Health Organization.

Each SolarWave unit:

- Effectively eliminates bacteria, viruses, and protozoa in line with the WHO recommendations
- Serves up to 2,000 people
- Has a lifespan of 10+ years

The complete project cost including equipment, installation, training, and yearly operation and maintenance (typical):

< 2.5 \$ per user per year
< 0.5 ¢ per liter of safe water

DRINKING WATER – FREE FROM SALT

Salinity is another major problem to contend with in providing clean drinking water. Water from deep boreholes and wells often contain high levels of salt that exceed the recommended standards for potable water.

SolarWave's desalination process is based on reverse osmosis – a proven and reliable filtration method that removes unwanted large molecules and ions from the water. This process lowers water salinity to a level below the recommended standards for potable water. Our technology significantly reduces sediment, salt, arsenic, fluoride, chlorine, nitrates, iron and heavy metals.

50.000 liters of drinking water – and counting



SolarWave systems are already in operation in Kenya, Tanzania, Uganda, Nigeria, Ethiopia and The Democratic Republic of the Congo. Taken together our systems purify 50,000 liters of water per day which helps 15,000 people keeping safe from waterborne diseases.

SAFE WATER – ANYTIME, ANYWHERE

- Sustainable community-owned solutions, taking care of the needs of up to 2,000 people
- Proven, robust and chemical-free technologies – 100% solar powered
- Low operation and maintenance costs

“Since the installation of the SolarWave water purification equipment in August 2011, we have not had a major epidemic anymore!”

**Adelina Mshinda, School nurse,
Kisarawe Lutheran Jr. Seminary
boarding school, Tanzania**

Let's combat waterborne diseases together



Too many people suffer from water-related diseases. Our mission is to provide sustainable solutions for the supply of safe drinking water.

SolarWave is a Swedish company with a global reach. With headquarters in Gävle, Sweden, SolarWave is currently represented in Tanzania, Nigeria and Uganda. We combine cutting-edge solar technologies with superior 'clean tech' products to create life-supporting solutions for developing countries and emergency agencies. Our vision is that everyone should have access to safe, affordable drinking water.

BASIC FACTS

780 million people lack access to safe drinking water.

3.4 million people die each year from a water-related illness.

443 million school days are lost each year due to water-related illnesses.

70% of African household income is spent on diesel, kerosene, charcoal and firewood.

4 million hectares of African forest are destroyed each year to feed the demand for firewood.

1.6 million deaths per year are caused by indoor air pollution attributed to the use of traditional fuels.

We all know that access to safe drinking water is fundamental in order to mitigate diseases, reduce poverty, and provide the basis for long-term sustainable development. Let's act now to improve these numbers.

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