

Safe drinking water for everyone

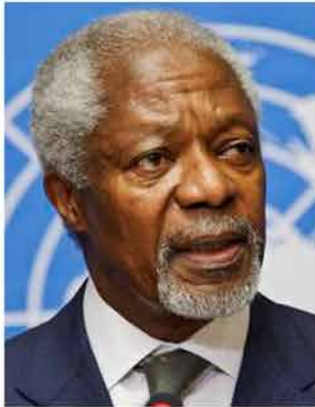


naiade

Safe drinking water for everyone

"Access to safe water is a fundamental human need and therefore a basic human right"

Kofi Annan



For millions of people a shortage of clean drinking water is a reality they must face every day. Sometimes they simply do not have enough, in other cases the available water is contaminated. In developing countries, poor water quality is the leading cause of health problems. Eighty percent of all illnesses in developing countries are caused by polluted water. It is estimated that 2 million people die from these illnesses every year.

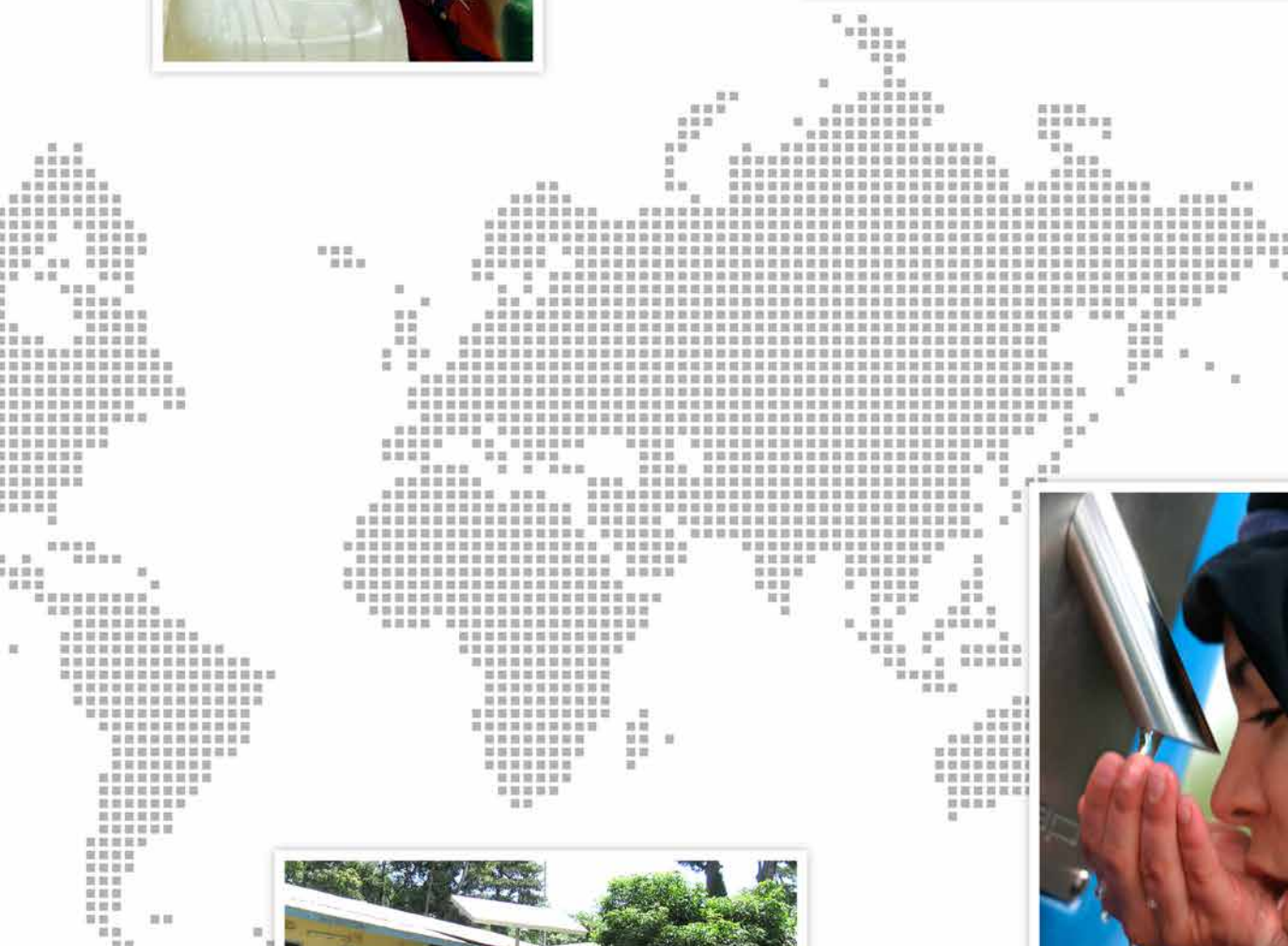
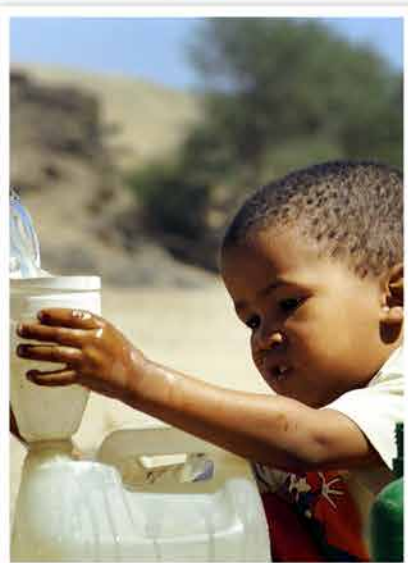
Naiade solution

The Naiade is an easy-to-install water purification unit providing safe drinking water. It works self reliant due to a solar panel. The Naiade cleans and disinfects water using sunlight, inactivating all pathogens, bacteria and viruses without the use of chemicals. Maintenance and management can be done by local people. The Naiade is already deployed in 35 countries in Africa, Asia and South America. It can be funded by beneficiaries themselves at a minimum yearly cost per person.



- Smart** Mobile water purification unit working on solar power
- Simple** Easy to install, use and maintain
- Safe** Purifies bacteriological contaminated water without the use of chemicals





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Smart

The Naïade is powered by an integrated solar panel and uses state of art UV technology. During hours of darkness, the electricity comes from a battery in the base of the unit. The Naïade is a stand-alone device.



High capacity

The unit can supply an average of **3000 liters per day**, satisfying the daily needs of up to 400 people.



High yield

>99% "kill rate" of **bacteria**, **protozoa** and **viruses**.



Native speaking sales and distribution network

Managed from their headquarters in the Netherlands, Nedap supports, controls and educates their local sales and support force worldwide.



UV technology

This proven UV lamp technology is similar to the water treatment technologies applied in large purification plants in New York and Rotterdam. Ultra violet disinfection has shown to be a cost effective alternative as well as an **effective disinfection method**.



Solar power

The unit works independent from fossil or electrical network. The Naïade is powered by an integrated solar panel. During hours of darkness the electricity comes from a separate battery in the base of the unit. The battery is charged by the solar panel via an electronic unit, this makes the Naïade **completely independent** of any fossil fuels.



Worldwide approval

Various official water quality institutes have **approved** the Naïade.

Simple

The Nāïade is simple to install, to use and to maintain by local people. As soon as the container is filled with water, one only has to press the button to start the purification of the water. The filter bags, solar panel and container need to be cleaned periodically. The Nāïade is user-friendly for young and old.



Easy to install

Installation can be carried out by local people. The Nāïade arrives in a large cardboard box on a pallet. It includes all necessary tools and an instruction leaflet. All sub assemblies have been installed already. **The unit can be operating within 30 minutes.**



Easy to maintain

The filters bags clean the water mechanically. After clogging, the filters can be easily washed. Each unit contains only one replaceable part, the UV lamp. The life span of the lamp is approximately 10.000 hours (~3 years). **Maintenance can be carried out by local people.**



Easy to use

Pour in the untreated water and press the button. **Even kids can operate it.**



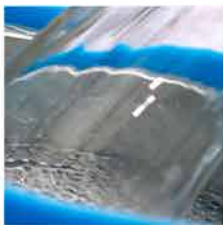
Robust technology

Spare parts can be easily purchased since the back up service is at local level. **The unit does not use any moving parts.** All materials as well as the applied technology are based on intensive use in remote and rural areas.



Safe

Eighty percent of all illnesses in developing countries are caused by polluted water. Serious illnesses transmitted via polluted water include Cholera, Typhoid fever, Hepatitis A and Dysentery. The Nāiade cleans and disinfects water without using chemicals.



Filter bags clean the water

2 filter bags remove the microscopic particles, including nematodes.



No chemicals

*After filtering, the water is disinfected by the UV lamp, inactivating viruses and bacteria. The **avoidance of chemicals** will preserve the taste of the water. For treatment facilities in search of an alternative to liquid chlorine disinfection, UV treatment is one of a few technologies from which to choose.*



Better health

*Using the Nāiade results in **reduction of diseases** and increases life span. Good health is a fundamental human right.*



Environmentally friendly

*Powered by the sun, completely **independent of any fossil fuels.***

Certified

*Approved by **KIWA**, **UNESCO-IHE** and other national and international water authorities.*

UNESCO-IHE
Institute for Water Education



Naiade

Smart, simple and safe

The Naiade is a mobile water purification unit working on solar power. This system is easy to install, use and maintain. It purifies bacteriological contaminated water without the use of chemicals.

Durable body

The Naiade is made of plastic and has a capacity of **100 liter**.

Filters

Mechanical filters clean the water of impurities.

A sieve removes large particles. Two filters of 25 mu and 10 mu are able to remove even microscopic particles, including nematodes.

Technical data

Energy source	• sunlight
Solar panel	• 75 watt
Energy storage	• battery
Daily average capacity	• 3000 liters (up to 400 people)
Water prefilters	• bag filters 10 mu and 25 mu
UV disinfection lamp	• 20 watt
Water tank	• 100 liters
Dimension	• 54 x 75 x 140 cm
Weight	• 44 kg
Effective against	• viruses, bacteria, protozoa and worm eggs.

Solar panel

The solar panel measures 53.7 * 120.9 cm and has a capacity of 75W.

Ultraviolet light

The ultraviolet light inside the Naiade makes water **safe to drink**. Ultraviolet light inactivates bacteria, viruses and worm eggs. The light has a 20W capacity.

Pictograms

Pictograms on the outside of the Naiade demonstrates clearly **how to operate** the unit.

Battery

It is possible to include a battery in the unit in order to **store energy**.

Nedap Light Controls Europe, Head Office

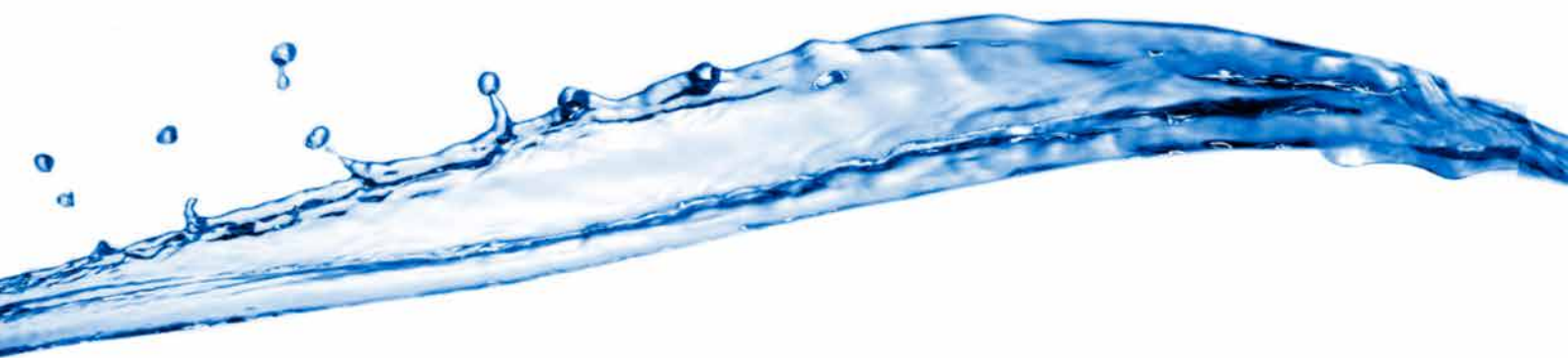
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