

Troubled Waters

Water: Life's most basic need; Our planet's most precious resource.

Yet despite this, there is a water crisis in our world today that little is being done about. One in eight people lack access to safe water supplies, yet this water crisis garners far less attention than the oil crisis, terrorism concerns, or the economy.

Shocking Stats and Frightening Facts:

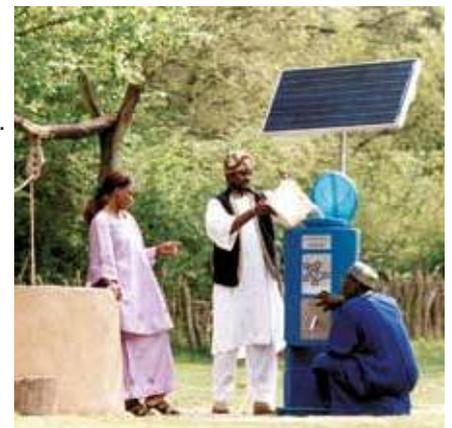
- 884 million people lack access to safe water supplies. (UNICEF/WHO 2008)
- 3.575 million people die each year from water-related disease (WHO, 2008)
- Diarrhea kills more young children than AIDS, malaria, and measles combined. (UNICEF, WHO 2009)
 - Water related diseases kill:
 - One child every 20 seconds
 - 6,000 children every day
 - 1.4 million children each year

This is the equivalent of 20 jumbo jets, filled with children, crashing each and every day. (Blue Planet Network)

Although many organizations are trying to help improve the water crisis, a large percentage of the water relief efforts fail because of

- project complexities
- maintenance difficulties
- problem-plagued technologies
- inadequate resources within the communities

Naiade has changed all that.



The Naiade:

- **Provides clean, safe water using reliable, proven UV technology:** Nedap's UV lamp technology is used in the world's largest drinking water purification plant under construction now, which will purify 2.2 billion gallons of water a day for New York City. The Naiade uses Nedap's UV lamp technology.
- **Worldwide approval and high yield:** Several tests by various official (state controlled) water quality institutes worldwide have approved the unit. Test results varied from 95-100% 'kill rate' of bacteria, protozoa, and viruses.
- **Serves whole communities:** provides safe, clean water for 400+ people per day.
- **High capacity:** purifies 1.3 gallons of water per minute, 793+ gallons per day.
- **Easy to assemble:** assembles in approximately 30 minutes. Designed to be installed, operated, and maintained by people with no technical education or background.
- **Easy to use:** pour in the dirty water, press a button. Even kids can operate it.
- **Easy to maintain:** basic cleaning of the filters is all that is necessary. There are no moving parts and each unit contains only one replaceable part (UV lamp) which has a lifespan of 10,000 hours of use, approximately 3 years.
- **Inexpensive:** Each unit costs \$5,000US.
- **Low operational costs:** \$40 per year.
- **Purifies water safely without the use of chemicals:** Most competing systems use chlorine or other dangerous chemicals which have significant health risks and on-going costs of chemicals.
- **Can be used in the most remote villages:** Fresh water from dug wells, rivers, creeks, bore holes, lakes, lagoons, etc. can be used or units can be installed directly to the source via piping.
- **Robust technology:** All materials as well as the applied technology are based on the intensive use in remote and tropical areas.
- **Environmentally friendly:** Powered by the sun. The solar panel absorbs sun-light which is converted into energy to power the ultraviolet light. It can also run 24 hours a day by installing a car battery in the foot-well of the unit. The battery is charged by the solar panel, which makes the Naiade completely independent of any fossil fuels.



The Naiade Will:

Reduce

- Death rate
- Disease
- 40 billion hours every year that women and children spend walking for water
- Water costs for families

Increase

- Lifespan
- Sanitary Living
- Time women have available for work
- Time children have available for school
- Families' economic freedom
- The future of their communities



"Clean water and sanitation are to diarrhea what immunization is to killer diseases such as measles or polio; a mechanism for reducing risk and averting death." (UNDP, 2006)

"Naiade is saving lives as we speak. Over 250 Naiade units are already installed in communities throughout the developing world, but there is so much more that needs to be done; so many more communities that are in desperate need. But we can't do it alone. You can help. Together we can reduce water related deaths by 21% simply by bringing clean water into a community, saving 2 million lives a year. (Water.org) But don't wait to make a decision to help get the Naiade into more communities. For every day you wait, 24,000 children will die as a result." (UNICEF/WHO, 2009)

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