



The WaterPyramid

The Markets on which we focus

In subtropical and tropical region we focus on clients such as:

- NGO's and Public Utilities
- Aid and relief organisations
- Industry, hospitals and clinics with requirements for usage of distilled water

Region and location

Abundant sunshine is the key for producing water within the WaterPyramid. Clients are therefore typically situated in tropical and subtropical regions. For satisfactory operation, the WaterPyramid requires sufficient flat space, and the nearby presence of source water, such as salt water, brackish water or polluted river water.

Operational and investment costs

The operating costs related to energy and employment are low: energy from the sun is free and the workforce used can be locally recruited. The investments costs of the WaterPyramid are comparable to the cost of a state of the art reverse osmosis system in combination with appropriate power supplies and other necessities.

About us

The WaterPyramid is developed, produced and marketed by the Dutch company Aqua-Aero WaterSystems BV (AAWS). AAWS is an independent company, committed to developing and producing sustainable quality solutions for water needs around the world.

Interested?

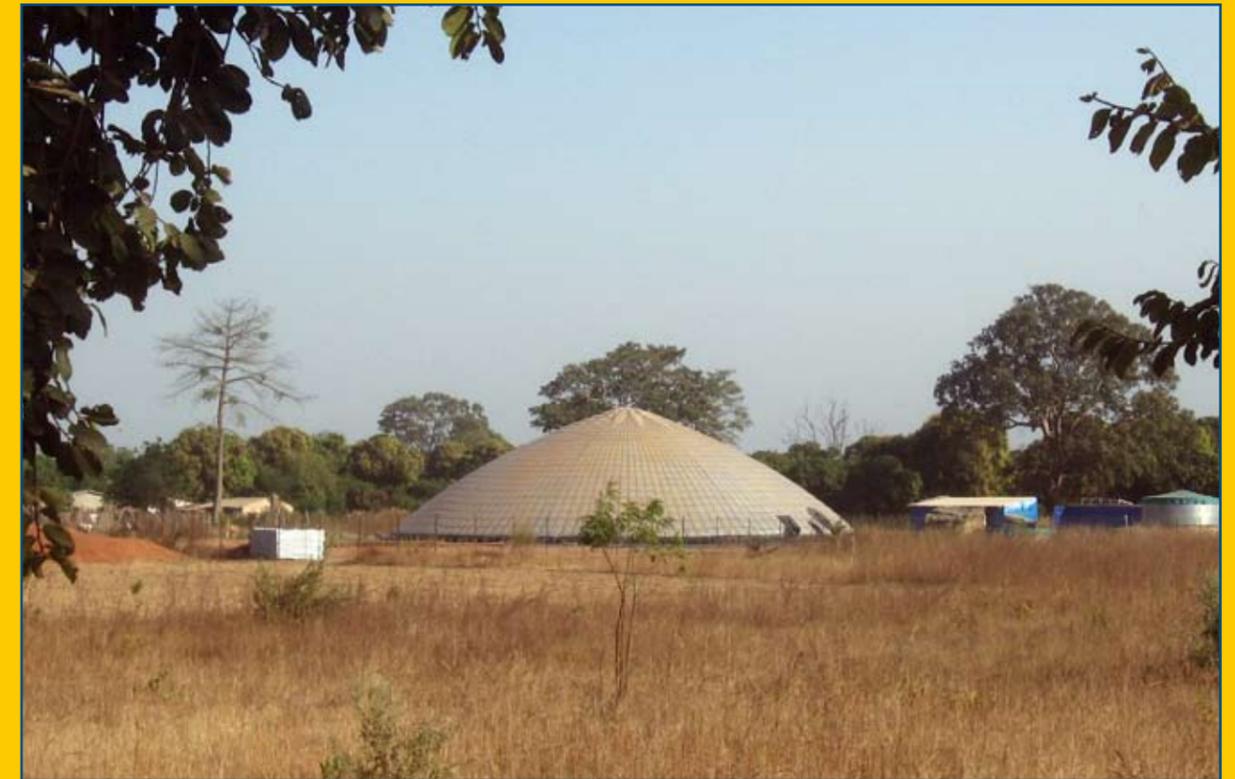
If you are interested in details and specific quotes, please complete our information request form on the website www.waterpyramid.nl, or contact the number below.

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A concept for clean drinking water,
employment and entrepreneurship



The WaterPyramid, an integrated environmentally friendly concept for producing drinking water

An integrated concept

Aqua-Aero WaterSystems has developed the WaterPyramid concept for tropical, rural areas. The WaterPyramid combines state of the art **technology**, **capacity building** and **local entrepreneurship** to produce high quality drinking water. In doing so, a financially sustainable situation can be reached.

1. WaterPyramid Technology: unique and rewarded

The WaterPyramid makes use of simple technology to process clean drinking water out of salt, brackish or polluted water. Most of the

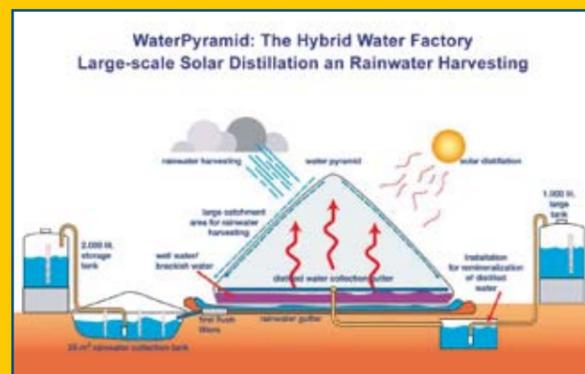
energy needed to clean the water is obtained from the sun. The WaterPyramid is designed following appropriate technology standards, is patented, and rewarded by the World Bank with the Development Marketplace Award 2006 for small scale water innovations.

2. Capacity building: essential for creating success

Capacity building and training of the employees and stakeholders is advised in order to embed the Waterpyramid technology in the local cultural, social and economical situation. Dependant on the specific situation we focus in those trainings for instance on aspects such as: ownership, responsibility and awareness creation, business development and management.

3. Local entrepreneurship: powering sustainability

Local entrepreneurs can play an important role in the sales of the produced water. As a result, additional income will be generated. The water is distributed to a larger target group increasing the sustainability of the project.



The WaterPyramid: how it works

The WaterPyramid is a uniquely designed inflated foil structure. It utilizes energy from the sun to evaporate dirty or polluted source water and to condense high quality drinking water. The concept is based on the solar still principle, optimised for large areas.

On the **inside**, the WaterPyramid produces high quality distilled water. The **outside** is used to collect and harvest rainwater during the rainy season. The rainwater is collected separately, purified and stored in a large ground tank.

Easy to maintain, durable and flexible

The WaterPyramid is simple to install, to operate and to maintain. It can be operated by a locally recruited labour force. The technology used is sustainable and the materials used reflect the high quality of the design.

The WaterPyramid is designed using a modular concept leaving space for future expansion on demand. Water that is salty, brackish or containing heavy metals can be used as source water.

Water production: distilled water and rain water

The WaterPyramid with a total area of about 650 m² produces up to 1.000 – 1.250 litres of

distilled water daily on the inside of the tent. That is about 350 m³ on yearly basis. The production is enough to fulfil the drinking water needs of hundreds of peoples.

The collected rainwater is dependant on the specific rainfall characteristics of the location. An average tropical rainfall of 800 l/m²/year results in the collection and harvesting of about 600 m³ of rain water. If the WaterPyramid is well maintained, both the distilled water and the rain water meet the guidelines set by the World Health Organisation for drinking water.

Benefits

Benefits of the WaterPyramid concept are:

- Drinking water (meeting the WHO guidelines) made easily available
- For remote and local application
- The workforce can be locally recruited and trained
- Low operational/maintenance costs
- Income generation is an integral part of the concept
- The WaterPyramid can be locally produced
- An environmentally friendly solution for water production