



NewsLetter January 2014



Dear All,

We send you this newsletter to share our achievements and accomplishments over 2013.

At Aqua-Aero WaterSystems BV we know how to **purify water**, implement state of the art **water harvesting** systems and solve **sanitation issues** for the third world countries. We always seek active participation with local entrepreneurs and local organizations in order to achieve long term sustainable situations.

Wells dry out, pumps break down, high-tech machines are difficult to maintain and electricity isn't always available in third world countries. Using this information we that are robust, simple to operate, easy to maintain and or wind energy to become independent of the electrical grid. tested extensively on the ground in Africa, India and especially created for remote regions.



develop products make use of solar Our designs are Indonesia and are



Rainwater Harvesting is growing rapidly over the last decennia. AAWS developed a simple, economic solution to capture rainwater. We call it the **RainCap** : a large foil tank system capturing 50.000 liters of water or a multiple of this amount. This tank does not burst open, will not leak, combined with a lifespan of more than 8 years. Once the water is captured in the **RainCap** it can be purified using our **UV WaterBox** and then sold in a **"WaterShop"**. Local entrepreneurs take care of operating this WaterShop and learn how to produce good quality water and sell it for a very reasonable local price. This way we deliver a financial sustainable option for people living in the vicinity of the Water Shop to buy safe clean drinking water.

From 2012 onwards we implemented a Rainwater WaterShop in Walalane - Senegal together with the governmental agency PEPAM-Aqua. The project has shown to be successful, entrepreneurs make money and the villagers are happy to be provided with high quality drinking water. This success in 2013 results in expansion in 2014 and due to this favorable outcome we've started another project in the same region providing 250.000 tank capacity to the local Hospital in Fatick. This project is in cooperation with the Irish-Dutch NGO Hospital Brothers. An interesting video can be seen on our website concerning this project.

In Kenya we've cooperated with the NGO Tenda Pamoja Association to install rainwater harvesting tanks with a total capacity of 250.000 liters and villages Godo and Mwena. The also people from the nearby villages purified drinking water in the UV



water purification for 2 schools in the consumers are not only schoolchildren, but willing to pay a small sum of money for the WaterShop connected to the school.

In 2013 we also completed the setup of our **franchise WaterShop** concept in Bali. The first "Toko Air" in Indonesia located in Denpasar is a success. We are running a factory in Bali producing clean drinking water and sell this water under the brand of "Saine" to customers in Hotels and Resorts. 30% of the revenues of this activity is used to set up our so called Toko Air Shops.

These are small Water shops producing clean water for poor people at the BoP at limited costs for the 'Toko Airs'.

We further came in contact with inventive entrepreneurs from Niger and Sierra Leone who were interested in buying UV WaterBoxes to set up their own water purification business. In Sierra Leone a good running water shop was set up and in Niger a multiple use structure including water purification and an irrigation system is working fantastic at this moment.



Water, sanitation and food security play an essential and critical role in the well-being of people in third world countries. Both water and sanitation are closely linked to each other indicating that the solution is often found in a combined approach resulting in the improvement of the three subjects simultaneously : increasing water quality, reduction of infections and death due to poor sanitation. Increasing water quality also leads to better crops and thus food security.

In the beginning of 2013 a pilot compost farming project started in Xai-Xai - Mozambique. Latrines were closed using our Dutch Latrine Bags. An advantage of this unique system is that it delivers the opportunity to reuse the collected human waste for compost farm applied specific composting technologies combining the components such as market leftovers and garden waste end healthy, 100% hygienic compost. Basis for that is a the compost in 3 to 12 months' time. The compost can place. It is a sustainable activity which can be locally operated and managed to increase the food security of local communities.



activities. For that we faeces, urine and biological material producing in the careful recipe delivering be sold on the market



We also started a sanitation project in Nakuru - Kenya building Dutch Latrine Bags to close school latrines. The content of the school latrines will be used for a sustainable compost farm nearby. This project is setup in collaboration with Vitens Evides International from The Netherlands and the local water utilities company NAWASSCO.

In our next newsletter we will inform you about some of our new products :

- ◆ TankCap: a foil liner to repair existing concrete tanks that are leaking
- ◆ UV WaterBox XL: large scale rainwater harvesting up to 2000 m³/pond
- ◆ Water Credit Concept (WCC): a simple water credit system for local communities

For further projects, please follow us on our website, Facebook and LinkedIn :

Aqua-Aero WaterSystems BV, The Netherlands

info@aaws.nl - Tel.: +31.15.212.96.13

www.aaws.nl

