

World Aid Organisations and Mono transform communities lives

Background

The World Bank has initiated a program to identify communities in dire need of drinking water. This program, the Community Water Supply and Sanitation Project (CWSSP) funds projects such as those managed by Dar-es-Salaam Water and Sewage Authority (DAWASA). DAWASA works closely with selected aid agencies to provide a solution to the needs of the individual community.

Mikwambe and Ponde are two adjacent communities situated on the southern outskirts of Dar-es-Salaam were selected for this project. These two communities experience severe health problems, attributed to contaminated surface water and insufficient ground water.

Pump Installation

The water requirement was based on providing 15 litres per person per day and sanitation at the local primary school, amounting to 50,000 litres per day. Two boreholes were drilled to depths of 50 and 70 metres with sufficient capacity to fulfil the demands. As there is no electricity to support these communities, four alternative pump technologies were considered; hand pumps, diesel driven line shaft, diesel generator driven electric submersibles and solar.

Charles Zacharia Mutoka, the program engineer for the Wateraid Tanzania office said, "the decision to go with solar pumps was made easy once the initial and ongoing costs, ease of financial management by the local Water User Management Association and most importantly the long-term sustainability were taken into account".

The project consisted of:

- Installation of a Mono 1200 Watt Sun-Sub pumping system with tracking solar.
- Arrays in each borehole.
- Construction of 13,000 Litre tanks and pump houses.
- 3,000 metres of piping supplying 14 strategically place water supply points.
- Plumbing of water to the school latrines.
- Training of the local community in pump care and maintenance.
- Installation of a solar driven electrified security fence and lighting.

The project was completed at the end of April, 2009. Vivienne Abbott the Wateraid Country Representative for Tanzania said "the transformation in the health and lifestyle of the community in such a short space of time, has to be seen to be believed. Along with the service, technical backup and training provided by the Mono African representative, Mono solar pumps will definitely be considered for all our future projects".

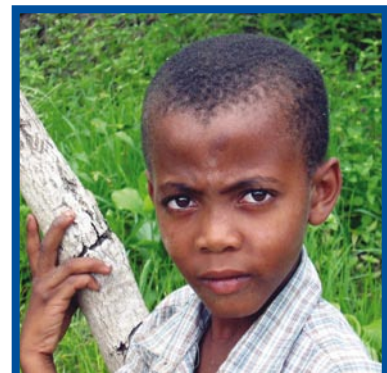
For more information please contact Mono Pumps at global.solar@nov.com or visit www.monopumps.com.



The solar arrays installed on the pump house with security fencing to prevent theft.



Commissioning the new water supply.



Children no longer have to rely on hand pumps for safe drinking water.

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