

PROJECT DESCRIPTION

Engineers Without Borders (EWB-DK) is a technical-humanitarian organization of volunteers and committed members with technical skills. EWB-DK collaborates with local and international NGOs to help people in low or least developed countries suffering from deprivation and ensure local empowerment. EWB-DK provides basic opportunities for survival and helps build a better tomorrow for people affected by disasters and poverty.

EWB-DK provides technical humanitarian assistance with a strong focus on local sustainability and self-help. Through technical readings, EWB-DK seeks to build local knowledge and provide learning to enable communities to maintain and run the projects when they are no longer in the local area. Specifically, EWB-DK works with hand-drilled and drilled wells, solar energy, construction of smaller buildings, analysis of pollution and education (formal as well as informal).

EWB-DK typically works in small communities in developing countries with end-users that all live under the poverty line of 1.90 USD a day. Revenues are sourced from government, membership fees, individual donations, foundations, national conferences, university and private sector contributions.

The objectives of EWB-DK's project *134: Community Kiosk Water Supply* is to provide safe water to an area inhabited by internally displaced persons with no urban planning or state provision of safe water. The project addresses women's empowerment insofar that the business model is designed to engage and economically empower local women as vendors and managers of the water kiosks. In the present project EWB-DK has engaged strategic local partners in order to enhance sustainability economically, socially and technically. The model is semi commercial insofar that women will be commercial vendors of water backed by a not for profit local organisation to secure maintenance and business support.

The main components of the water supply project are

- 1) Construction of water supply infrastructure (tower, submerged pump based on solar energy)
- 2) Distribution of water to 5 local kiosks
- 3) Training of basic maintenance
- 4) Training in business model for water sale

The main objectives of the project are

- 1) Provision of access to safe water for up to 4000 inhabitants in the suburb Grafton.
- 2) Women's empowerment through income generation - the creation of a sustainable business model to secure community access to water.
- 3) Training and capacity building of Fourah Bay engineer students in sustainable water supply provision.

The project is highly appreciated by community and has demonstrated a substantial need for water. In the joint efforts to improve water supply at household level EWB DK and partner water4evter are therefore very interested in assessing the possibility of establishing a hybrid system providing kiosk sold water but also offering the service of household transmission.

How to provide safe water with a differentiated service (kiosk sale combined with transmission to household)? Sustainability is a crucial factor, hence the problem should be addressed from a technical, social, organisational and economical perspective and with a strong focus on EWB-DKs definition of Sustainability see [EWB DK vision 2020-2025](#)

The NUMA Clean Water System

