

PROJECT DESCRIPTION

Engineers without Borders Denmark

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Engineers Without Borders (EWB-DK) is a technical-humanitarian organization of volunteers and committed members with technical skills. EWB-DK collaborate with local and international NGOs to help people in poor countries suffering from deprivation and ensuring local empowerment. EWB-DK provide basic opportunities for survival, and help build a better tomorrow for people affected by disasters and poverty.

EWB-DK provide technical humanitarian assistance with a strong focus on local sustainability and self-help. Through technical readings EWB-DK seek 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 work 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 work in small rural 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 conference, university and private sector contributions.



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Since 2009, EWB-DK have been working to ensure access to clean water in smaller rural communities in Eastern Sierra Leone. A central issue in this, and in international development in general, is lack of information and data. EWB-DK's projects put great importance to local sustainability. Therefore local water supply should not be dependent on EWB-DK's ongoing service and maintenance; this must be placed on the commercial technical professional base ie. small local service companies in the district where EWB-DK operates. If a "technical service" is to be built in the Kenema district, which can service the many villages' pumps on a "call in basis", an automatic monitoring of the pumps function must be performed.

How can EWB-DK make a system that can automatically monitor water pump functioning in the Kenema district, and/or how can a "technical service" be built that can maintain the pumps in many villages?

Example of Solar water pumping system:

