

Annual report 2018

Responsibility for water as a source of life ...

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Report of the Management Board

In the past fiscal year, the Executive Board convened once for a meeting of the hit. There was also a general meeting.

Special mention should be made of the past business year:

Adi, DR. Congo: From 05.03.05.04. the trip to Adi. The following work was done:

- Installation of a solar pump with solar system, including lightning protection and grounding of the system.
- The dilapidated main water pipe made of PVC between the underground and elevated tanks was replaced by a pipe made of HDPE DN40. The course of the pipe was changed so that the new pipe is only 740m long. The old, dilapidated pipeline was 1 km long.
- The too small PVC pipe between the spring tapping and the underground tank was replaced by a pipe made of HDPE DN40 (length approx. 80m).
- The fittings and steel pipes in the pump house were replaced so that the solar and centrifugal pump can be easily operated.
- A small modification was made to the deep tank, so that it can be used instead of the 6m³ now holds 9m³ of water.

These measures have increased the usable water volume during the dry season by 47% from 10m³/day to 14.7m³/day.

On 24.03. the new plant was handed over to the mission hospital Adi and inaugurated.

Adja, Abedju, Ania, DR. Congo: From 28.05.09.06. the journey was to the mission hospitals in Adja, Abedju and AruAnia. A surveyor and her husband, a technician by profession, had travelled with her. You have the Surveying of hospital premises in Adja, Abedju and AruAnia (stocktaking). Buildings, paths and groups of trees were surveyed. From the recorded data plans are drawn up for the planning of the water supply.

Geita, Lwamgasa, Nyankumbu, Tanzania: From 08.12.10. a seminar "Water treatment with sodium hypochlorite" was held with 35 participants. The seminars took place at SAFINA in Geita.

On **October 13**, together with the Mighty Men Drilling Company, the underground investigation was carried out in Lwamgasa on the premises of the Lwamgasa parish.

On **October 28**, the construction of the water kiosk was started in Nyankumbu.

On **October 30**, the drilling for the well was done in Lwamgasa. The well is 66m deep. The drilling company estimates the water supply at 8,000 to 10,000 litres per hour.

Lwamgasa, Nyankumbu, Tanzania: The 2nd trip to Tanzania took place from November 30 to December 12. It was necessary because the pump trial could not be carried out in October as planned due to delays by the drilling company.

On December 4, the 38-hour pumping test was carried out by WEDECO LTD TANZANIA, as the drilling company did not have the appropriate pump.

On December 06, a sample of the groundwater was taken from the pumping test and brought to the laboratory in Mwanza. One day later the result of the examination for mercury was clear: mercury is not detectable.

On December 06, we were informed by the project partner that a permit for the sale of the water to the population in Lwamgasa is still necessary. The permit was not available and could not be submitted in a hurry.

Therefore the board of directors decided on December 06 to let the project rest until the approval was available. The trip therefore ended prematurely on December 12.

On December 09, the water kiosk in Nyankumbu was handed over to the parish. There the participants of the seminar "Water treatment with sodium hypochlorite" can now produce sodium hypochlorite, treat the city water with it and sell it to the population.

Members: The number of members was ten on 31.12.2018.

Completed projects

Mission hospital in Adi, Democratic Republic of the Congo



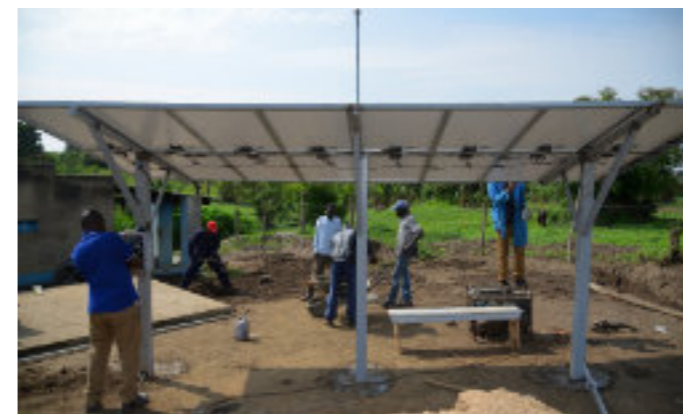
After we had replaced the defective centrifugal pump in the last years, repaired the diesel engine that drives the pump and built a sanitation system, the installation of the solar pump and solar system was now on the agenda. From 4 to 24 March, we completed the last construction phase for the water supply in Adi.

We constructed an approximately 740m long trench for the main supply line from the deep tank, where the spring water is collected, to the elevated tank. In this trench, the new pipeline was laid using 40mm HDPE pipes.

The old, dilapidated PVC pipe was shut down. The pipe from the spring to the underground tank was also enlarged to DN40, so that more water reaches the underground tank.



We then installed a powerful solar pump in the deep tank and set up a solar system there. The solar pump automatically delivers water to the elevated tank when there is enough water in the deep tank and the sun is shining.



During the rainy season or at night the diesel-driven centrifugal pump can be used for pumping. To enable both pumps to use the new water pipe, some changes in the pump house were necessary.

Due to these measures, the usable water volume during the dry season has increased by 47% from 10m³/day to 14.7m³/day.

On March 24, the new system was handed over to the mission hospital Adi and inaugurated. The costs for this project amount to 20,436.91 Euro.



Preparatory survey work in DR Congo



The medical management of CECA 20 in Bunia has asked us to build a water supply for the missionary hospitals in Adja, Abedju and AniaAru. Adja is located about 60 km away from the main traffic axis Adi - Aru in the bush. It is in a very bad condition. From Abedju it is about 5 km to Uganda. The hospital area makes a decent impression, but has no water supply.



Ania-Aru is the border town to Arua in Uganda. The survey in Adja Mission Hospital there is the best of all three, but also without a water supply. As a first step, we took a survey at the three places from 27 May to 9 June. Heidi will create maps from the points recorded, which will then be used for planning the water supply. Without a map with contour lines it is not possible to plan a water supply.



Heidi Schneider and Wolfgang Bauer from Kraichtal have agreed to travel with us to the Congo. Heidi, a surveyor by profession, has taken her equipment with her. She and her husband Wolfgang were a very well-rehearsed team. The costs for the surveying work are 7,131.97 Euro.

Water treatment workshop in Geita, Tanzania



From 08.12.10.2018, we held a five-day workshop at SAFINA in Geita, Tanzania, on the subject of "Water treatment with sodium hypochlorite". The interest was very big like last year. 35 people participated, but we had to cancel many of them, because there was not enough space.

Contents of the seminar were:

- What is water?
- What is clean water?
- What does water have to do with health?
- How can diseases caused by water, for example, be treated with simple means?
- Basics of water supply
- water quality
- Water treatment process
- practical implementation "Water treatment with sodium hypochlorite" with the help of common salt



At the end of the seminar, each participant received a certificate of participation and a T-shirt, so that the public would believe that they had the know-how to treat water with sodium hypochlorite. An employee of the local water authority also took part in the workshop. The costs for this seminar amount to 5,538.37 Euro.

Water treatment in Nyankumbo, Tanzania



The water kiosk in Nyankumbo was completed on 8 December and handed over to the parish the following day.

There, the seminar participants from Nyankumbo can put into practice what they have learned from the seminar "Water treatment with sodium hypochlorite". In the water kiosk they now produce sodium hypochlorite. This is added

to the town water and sold to the people in the village.

The treated water is then sterile. The untreated town water contains typhoid pathogens. The costs for this project amount to 6,216.07 Euro.

Water supply in Lwamgasa, Tanzania



Lwamgasa is a gold mining town in the Geita region. Mercury is used in gold mining. This contaminates the water. The surface water and some plants are contaminated with mercury.

In this case, the only conceivable solution is to drill a well. The drilling was preceded by two geophysical surveys on

the parish of Lwamgasa. MIGHTY MEN DRILLING COMPANY, an American-Tanzanian-led company, was commissioned with the drilling.

After several delays, including the threat of the borehole collapsing after several metres, water was found at depths of 40m and 60m.

On December 4, WEDECO LTD TANZANIA carried out a 38-hour pump test under our supervision. The measured data resulted in a maximum possible withdrawal quantity of 8,100 litres per hour.

We took a sample of the ground water from the pumping test and brought it to the laboratory in Mwanza. One day later, the result of the test for mercury was

determined:

Mercury is not detectable.

On December 6, we were informed by the project partner that a permit is still needed to sell the water to the population in Lwamgasa. The permit was not available and could not be submitted in a hurry.



Therefore the board of directors decided on 06.12. to let the project rest until the approval was available.

The costs for this project amount to 14.678,98 Euro.



Strategy and objectives

We shall not finally defeat AIDS, tuberculosis, malaria, or any of the other infectious diseases that plague the developing world until we have also won the battle for safe drinking water, sanitation and basic health care.

- Kofi Annan, former UN Secretary General

Clean water is the basis for good health and a better life. Through the dissemination of simple methods, the use of appropriate technologies in water supply, water treatment and sanitation, the population should be empowered to provide sufficient clean water and good hygiene themselves.

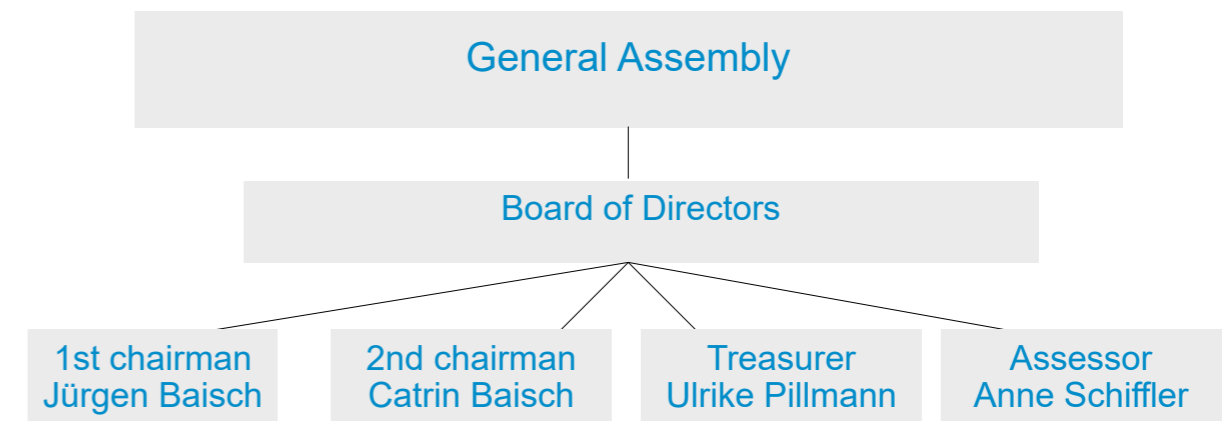
Institute Water for Africa

The "Institute Water for Africa e. V." is a Christian, politically independent non-profit organisation, which was founded in February 2005 by experts and other interested people.

Our vision

Our vision is that the arid regions of Africa will become green and fertile again. A key objective in the fight against poverty is the sustainable management of water resources, including access to safe drinking water and sanitation.

Organisational structure



Annual accounts

Surplus revenue account 01.01.2018 - 31.12.2018

Income	
Extraordinary income	0.80 €
Membership fees	420.00 €
Income from donations	79,660.76 €
Grants	5,500.00 €
Revenues	273.60 €
Total amount	85,855.16 €
Expenses	
Personnel costs	833.03 €
Fees	346.50 €
Expense allowance	6,882.40 €
Insurance	136.85 €
Small purchases	2,282.57 €
Working material, materials	32,429.68 €
Laboratory costs	58.93 €
Medical need	196.74 €
Import duty	194.38 €
Depreciation according to the list of assets	241.30 €
Advertising and publicity	836.58 €
Travel expenses	12,269.91 €
Seminars	165.00 €
board and lodging	1,575.29 €
Account management	159.23 €
Postage	249.15 €
telephone, internet	144.40 €
Website	711.40 €
Office supplies	598.26 €
Software and technical literature	330.59 €
Total expenditure	60,642.19 €
Surplus	25,212.97 €
Statement of assets 31.12.2018	
Book value office equipment	2,005.70 €
Bank value	36,354.96 €
Asset value 31.12.2018	38,360.66 €

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