



## Remote monitoring of water treatment systems in Ethiopia

### Background

Pathogens that carry diseases such as cholera can spread through contaminated drinking water and pose a threat to health. In many regions worldwide, water is available, but water sources are polluted, so it is very important to use water treatment systems.

This is why EcoPhi has a strong focus on water quality monitoring. In this project, EcoPhi is monitoring different water treatment systems in Ethiopia together with the Swiss company CLARA.



### Key facts

- ✓ Monitoring of various water treatment plants in southern Ethiopia
- ✓ Treatment system produces chlorine from salt and water which is dosed into a water stream
- ✓ Solar and battery for power supply
- ✓ Real-time monitoring dashboard
- ✓ Data locally available and connected to EcoPhi Inverter Box Premium, additional SMS alarms



## What EcoPhi does

EcoPhi takes care of the remote monitoring of the water treatment plants and provides a central dashboard for all systems and detailed information about each system.

The data from the water treatment system is transmitted to the EcoPhi Box via a UART interface. EcoPhi sends this data to the cloud platform, where it is displayed graphically and where users can access and analyze it.

The Advanced Box sends the data via the mobile data network. In the event of connection failures or poor connection, the EcoPhi Box stores the data locally and sends it as soon as the connection is re-established. Critical alarms can also be sent directly from the device via SMS. This allows the systems to be monitored even in remote regions.





## How does the service help

Through the EcoPhi monitoring system, CLARA can check at any time whether the systems are working and whether the dosing unit is functioning properly and the chlorine content is correct.

A large number of systems can be monitored through the platform. User-specific displays and specific reports allow the team to focus only on the critical facilities.

The service enables insight into the system. When comparing multiple systems, weak points can be identified and corrected. Quick failure analyses can be made, allowing technicians to prepare specifically for them, thereby saving travel time.

The specified alarms make it possible to intervene quickly in the event of problems with the systems.





# EcoPhi

Renewables Engineering

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