



**evoqua**  
WATER TECHNOLOGIES

# **Disinfection of water in Africa**

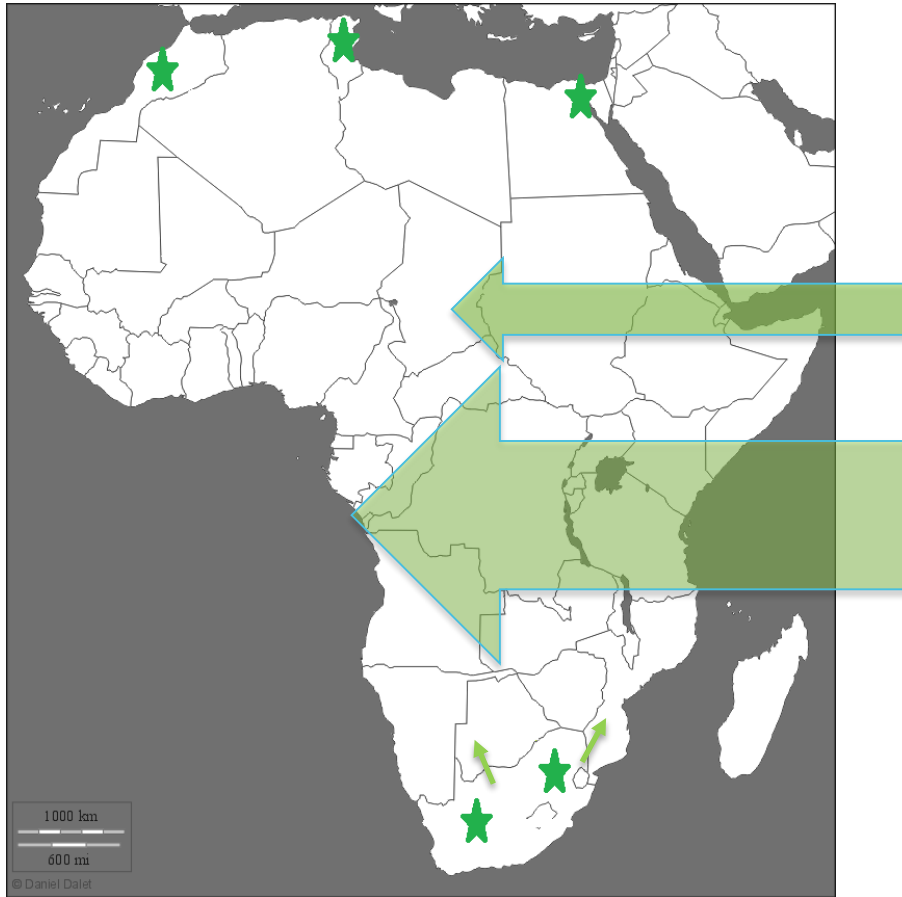
**Wallace & Tiernan, an Evoqua Brand**

# Do you sleep well at night?

potable water critical in your country

Is disinfection of water most critical?

# How many commercial chlorine facilities in Africa?



Only 5!

Do you think it is enough?

A bit of chlorine gas comes from India

A large portion of chlorine powder comes from China

Logistic is a big issue

Whenever China stops a factory, Africa can't disinfect!

# Water Security

You need alternate back up disinfection system:

- Current systems
  - Calcium Hypo (HTH)
  - Chlorine gas

What are your options?

- Delivery of bulk Sodium Hypo
- On site chlorine generation

Alternatives will not increase total cost of ownership

# WALLACE & TIERNAN

## DISINFECTION OF WATER SINCE 1913 ...



**Gas Chlorinators  
since 1913**



**Liquid Chlorine pumps  
since 20ties**

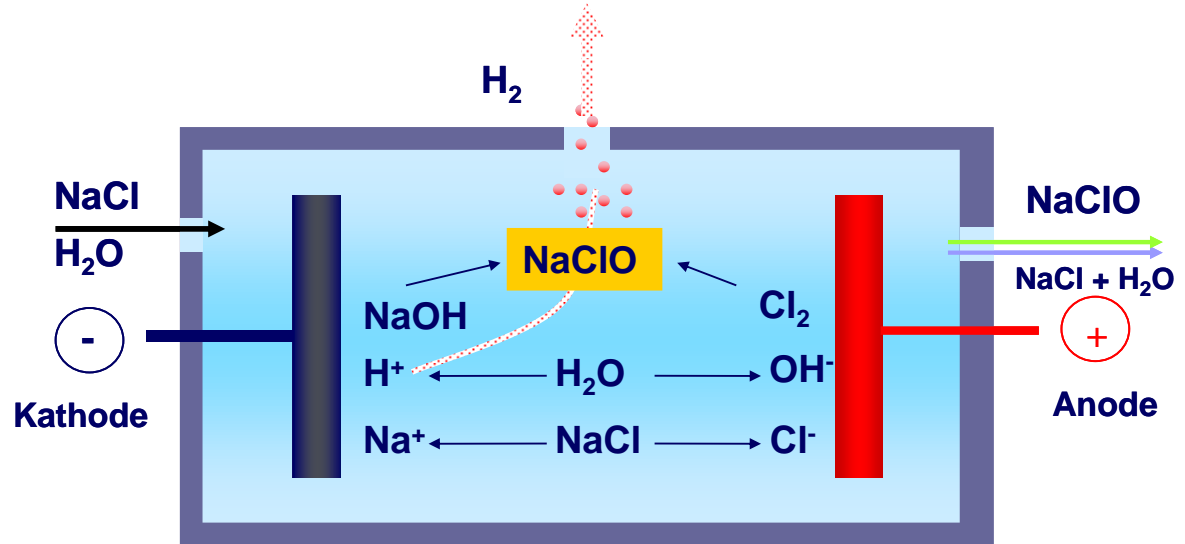


**Salt electrolysis  
since 30ties**

# Generate your own chlorine on site

## Requirements:

- ✓ Salt
- ✓ Water
- ✓ Electricity



# Almost 100 units in Africa, 50% installed in last 10 years



Important cities like:

Cape Town

Lilongwe

Gaborone

Kigali

Nairobi

Addis Ababa

Brazzaville

Abidjan

Dakar

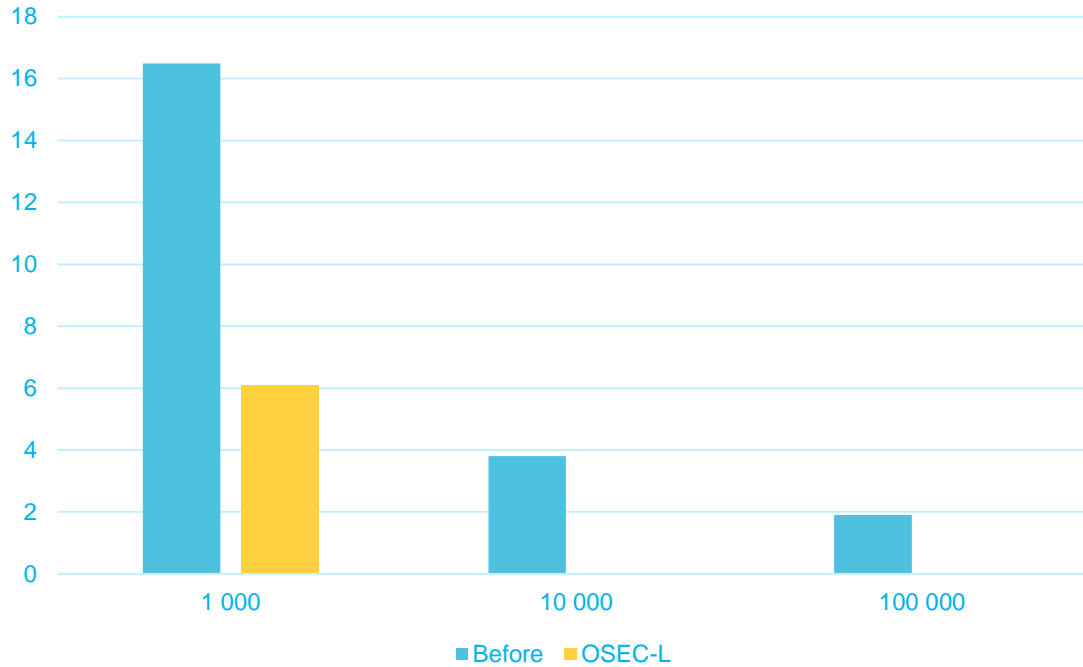
Ouagadougou

Bamako

Algiers

# Return on Investment

Years



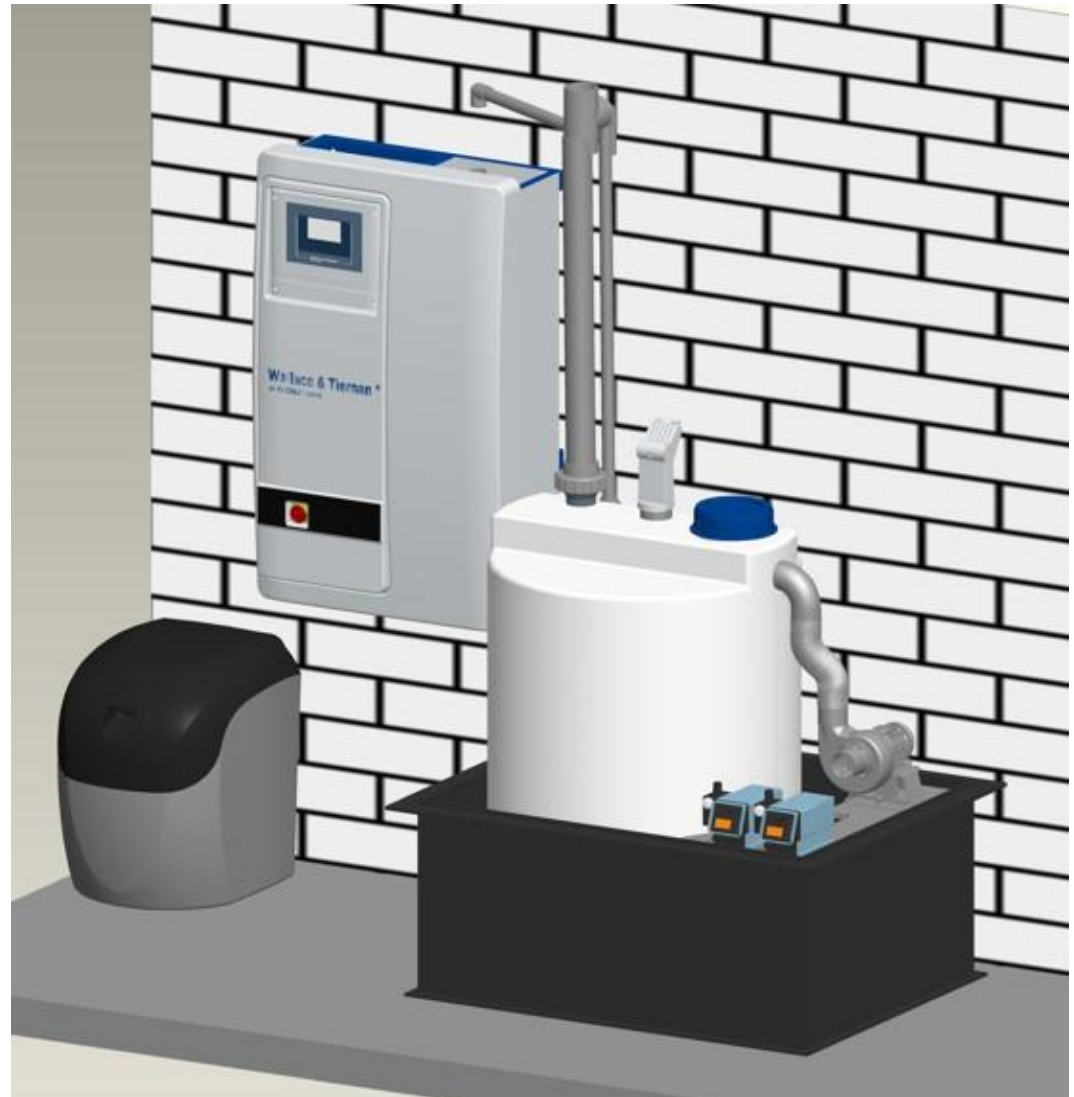
MLD plant or m3/jour



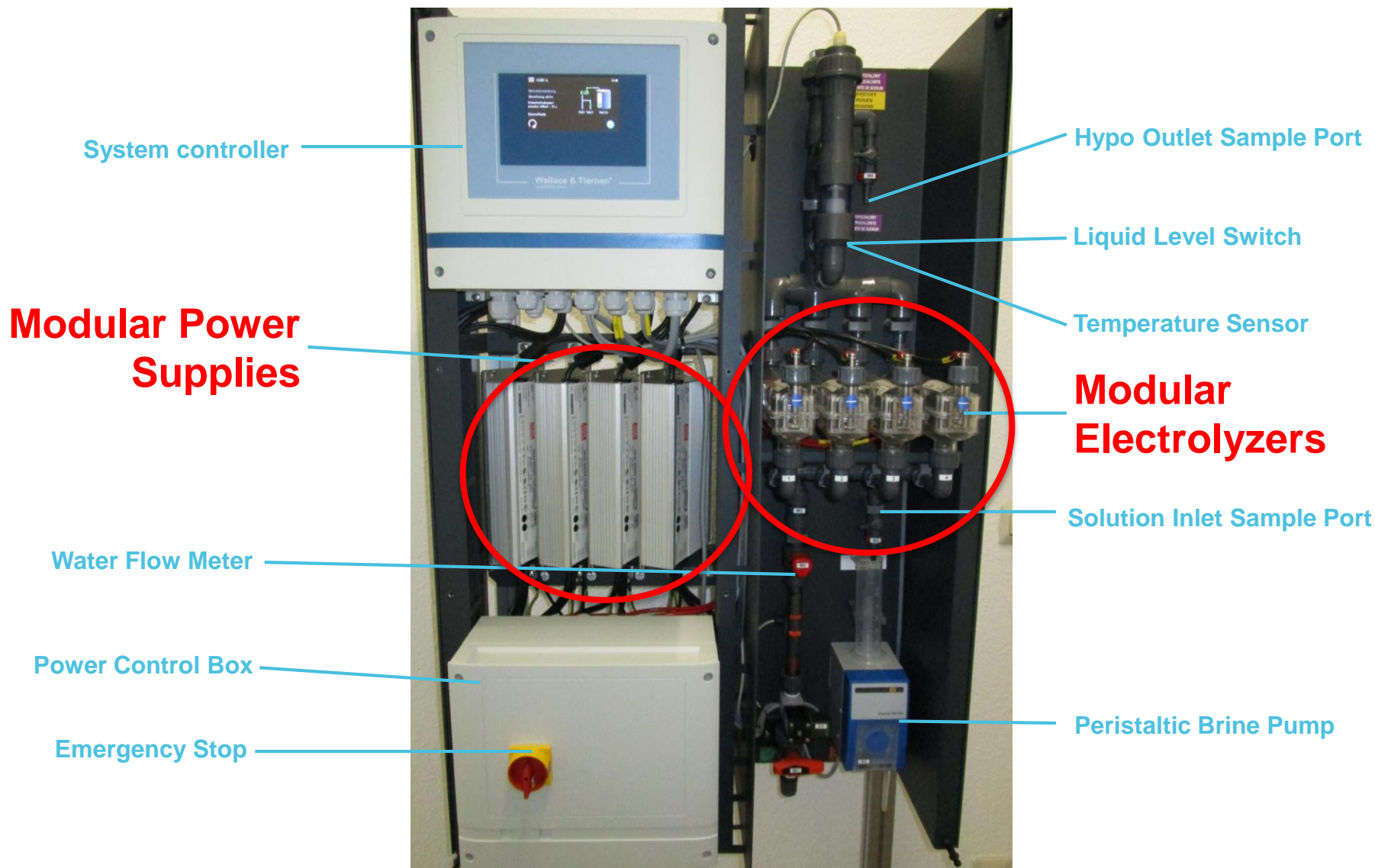
# OSEC® L

## Main Components:

- Electrolyzer
- Water Softener
- Storage Tank
- Brine tank
- Dosing Pumps



# WHAT'S INSIDE MAKE THE DIFFERENCE?



# OSEC® L fits to your environment



- Economical cartridge design
- **Wide inlet water temperature range of 5-30° C, more on request**



- Wide air temperature operating range (up to 50° C)
- Built-in redundancy and expandability



- Remote control
- And visibility of product stock

Let your young people start with efficient technologies



# AWARD-WINNING INNOVATIONS from W&T



DEPOLOX® / Strantrol® Pool Control System



NEW  
2016

Process Monitoring System



SafePrep XC® Calcium Hypochlorite



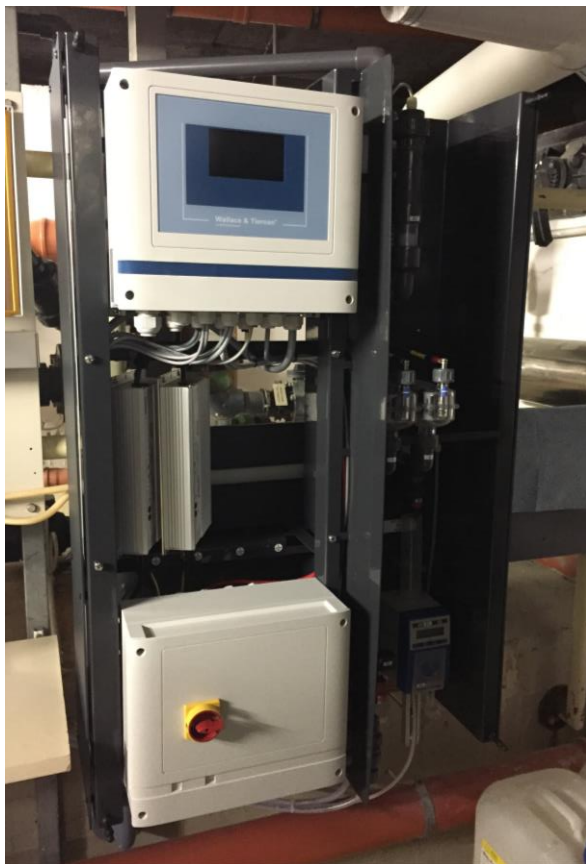
Hydraclam® / Chloroclam® Water Quality Monitor

# EVOQUA WATER TECHNOLOGIES GERMANY



The location of our main production site in is in Guenzburg (Bavaria), Germany

# Installation example



OSEC L



2 x 5PPD  
electrolyzers



Hypochlorite  
storage and dosing

# Chlorine gas: at its own risk

