

# MahuWévi: Oxygenation device for aquaculture

MahuWévi, the solution for aquaculture that sustainably feeds

MahuWévi is an advanced oxygenation system for aquaculture ponds that uses micro-injections of pure oxygen to maintain high dissolved oxygen levels. It operates through short, repeated oxygen cycles, improving water quality and fish health. Available in Mini, Pro, and ProMax models, it offers both standard and customized options.



**Gold's Farmers**  
HOUNSOU Tadagbé N. Eder

Commodities

Aquaculture

Sustainable Development Goals



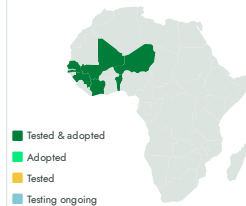
Categories

Production, Equipment,  
Aquaculture Systems

Best used with

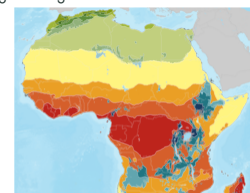
- [Cage Systems for Fish farming >](#)
- [All Male Tilapia Fingerlings with Greater Yield and Uniformity >](#)
- [Fast Growing and Hybrid African Catfish >](#)

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



This technology is **pre-validated**.

9·7

Scaling readiness: idea maturity 9/9; level of use 7/9

Gender assessment **4**

Climate impact **7**

## Problem

- High energy consumption of traditional oxygenation devices, increasing production costs and reducing profitability.
- Large water requirements in conventional aquaculture systems, raising resource consumption and costs.
- Significant nitrogen and phosphorus discharges, contributing to pollution of local ecosystems.
- Limited access to technology for young and non-professional users due to complexity of existing systems.

## Solution

- Reduced oxygenation costs: Lowers energy use while maintaining high oxygen levels.
- Lower water requirements: Cuts fresh water usage by 50%, ideal for water-scarce areas.
- Decreased pollutant discharge: Produces less waste, which can be used as fertilizer.
- Ease of use: Simple for beginners and small-scale farmers, no technical skills needed.
- Repurposing water: Recycled water supports crop cultivation, enhancing sustainability.

## Key points to design your program

The MahuWévi oxygenation technology is a cost-effective solution for African aquaculture, designed to improve fish yields by efficiently enriching pond water with oxygen. It supports sustainable practices with low energy use and minimal environmental impact, addressing key challenges in fish farming like low dissolved oxygen levels and high operational costs.

MahuWévi aligns with several SDGs by boosting food security (SDG 2), offering economic opportunities for women and youth (SDG 5), and reducing emissions for climate action (SDG 13).

This technology is ideal for development programs focused on sustainable, inclusive aquaculture growth.

Cost: \$\$\$ **250 USD**

Mini model

**10 years**

Lifespan

**500 USD**

Pro Customized

**667 USD**

ProMax Simple

**834 USD**

ProMax Customized



MahuWévi

<https://e-catalogs.taatafrica.org/org/technologies/mahuwevi-oxygenation-device-for-aquaculture>

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