

## Sustainable water management through automated monitoring: The success of V-95 Ltd. with the WALISE monitoring system

**V-95 Ltd. sees the future of efficient operation and achieving their goals in continuous monitoring, which is why they decided to partner with WALISE. The success of the first season convinced them of the value of automated monitoring, leading them to expand its coverage.**

Since 2003, V-95 Ltd. has been engaged in pond-based fish farming across a 300-hectare pond system. Additionally, they produce more than 1,000 tonnes of African catfish annually in a 1,300 m<sup>3</sup> system, processing and delivering the fish to customers within their own corporate group.

They track the entire lifecycle of the fish—from hatching to the table—with a workforce of 100 employees, playing a significant role in the domestic African catfish market.

They operate with a strong commitment to sustainability and place special emphasis on monitoring water quality and responding quickly and appropriately to changes in order to protect their shallow water ponds. For this, they rely on the WALISE automated monitoring system.

### Challenges – Changing Conditions, Persistent Problems

The situation of V-95 Ltd. is significantly complicated by the fact that, following decades of waterfowl production on their two largest ponds, the waters have become difficult to manage.

Climate change and increasingly extreme weather conditions—such as frequent fluctuations, high water temperatures, low water levels, and water scarcity—pose new challenges for fish farming, alongside strict regulations and rising costs.

The current environmental and economic conditions require greater preparedness and faster, well-targeted responses in water management, which in turn requires reliable data. However, occasional manual monitoring cannot provide sufficient information. As they note, twenty years ago continuous monitoring was not necessary—but today, they cannot imagine daily operations without constant, real-time data access.

### Solution – WALISE Automated Monitoring System

At the initiative of Managing Director Gábor Szilágyi and Farm Manager Attila Boros, the company quickly decided last year to implement the WALISE monitoring system. Within about one month, data collection was launched using a PMU profiling unit, followed by an SMU shallow water monitoring device.

Their primary goal was to obtain as much information as quickly as possible, which could later be analysed to better understand the processes occurring in the water. This enables them to respond accurately and effectively, and in the future—potentially in cooperation with WALISE—to develop methods that can predict problems even more efficiently.

The experts at V-95 Ltd. understand that data alone is not enough. Therefore, they continuously and precisely log all water-related events and conditions within the WALISE system interface, allowing them to identify trends and draw conclusions. This invested effort—like the monitoring system itself—pays off many times over.

### Results – Safer Water Management Through Data

With the help of the WALISE monitoring system, water quality issues can now be managed much more proactively. Compared to previous time-consuming manual measurements, continuously collected data enables faster responses to critical changes, potentially reducing the risk of fish mortality.

In the future, they plan to expand monitoring coverage to additional ponds. This year, they have already taken a significant step forward by extending their system with another SMU shallow water monitoring unit and an FMU shore-based unit, marking an important milestone in their development.

“Everything is moving, everything is changing. You never know what the future will bring.

We are measuring pH, ammonia, oxygen, and water temperature values that we have never encountered before.

It is remarkable that fish can survive at all under such high temperatures and such low oxygen levels.

Now I can see the processes, and we finally have the opportunity to intervene.

I have learned a great deal from this.”

Attila Boros  
Fish Farm Manager  
V-95 Ltd.  
Nagyatád, Rinyaszentkirály  
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WALISE SMU-51 shallow water monitoring device

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