

OPERATIONAL EXCELLENCE IN FISH FEEDING



THE CHALLENGE

Aquaculture — also known as aquafarming — is a 13 billion-dollar industry in Vietnam. With approximately half of this value being exported, this sector represents a significant revenue for the nation. Investors in aquaculture are looking for innovative solutions to provide high-quality products and maintain, or even improve, Vietnam's position as the fourth largest aquaculture producer globally.

Fish, shrimp, and mollusc farms can be onshore or offshore, often in remote locations. This poses a challenge for operators. Ovarro, and local Authorised Ovarro Partner (AOP), Phap Tri Technology (PTT), rose to this challenge, using the TBox LT2 RTU to improve operations.

THE SOLUTION

The Ovarro TBox LT2 was installed on-site, acting as a local process controller to manage valves, pumps, and the fish-feeding process. The RTU monitors water quality and regulates the flow of fresh water through fish farms to maintain an optimal environment for fish growth.

At regular periods, the RTU activates the feeder, supplying controlled volumes of food and verifying that the correct amount is provided during each feeding session.

In addition to process control, the LT2 maintains a local historian and reports key information to a centralised server. PTT has developed a mobile app to access this data so that operators can monitor their investments at any time.

Maintenance crews can also receive alerts to any mechanical failures or water quality issues, allowing for a faster response, and minimizing any negative impact.



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WATER



MONITORING
& CONTROL



RTU'S



SUCCESS

The remote process control and reporting from Ovarro's TBox LT₂, combined with the mobile App from PTT has allowed investors to manage more fish farms, more efficiently, with tighter control over optimum strategies for product quality.



Incorrect feeding can have a detrimental impact on the bottom line of an aquaculture business. With the deployment of the TBox LT₂, we have achieved a greater understanding of site conditions to resolve problems before they occur.

Vinh Hoan, Fish farming company based in Vietnam



OPERATIONAL BENEFITS

Operationally, there has been a measurable drop in the time required to respond to faults onsite, reducing downtime and maintaining a higher-quality environment for fish growth. This has resulted in operators being able to increase the number of fish that they have been able to grow, therefore improving their profit margins.

KEY DELIVERABLES

- Improved understanding of site conditions
- Remote control of pumps and feeding equipment, allowing for manual adjustment without visiting site
- Increased incidents able to be identified and resolved, before impacting fish health
- Ability to support larger volumes of fish

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