

Hunter Water Implements Smart Maintenance for a New, More Efficient Regime

How Hunter Water's move from reactive to predictive maintenance with MOVUS FitMachine allowed their teams to cut costs, reduce risk and increase day-to-day worker safety.

CASE STUDY SNAPSHOT

Faced with equipment monitoring challenges and unpredictable failures, Hunter Water took the leap to advance their maintenance maturity in 2019.

Through harnessing MOVUS FitMachine, Hunter Water has since developed a more efficient maintenance regime that simultaneously contributes to the safety of their people.



Parsons & Peebles 1800kW Induction motor and a Thompsons horizontal split-case pump with an installed FitMachine.

"The MOVUS device is doing wonders for us. We've now got end-to-end equipment health and condition in the one page on a dashboard for people to use."

TOM HARTIGAN
Mechanical Engineer

THE CHALLENGE

Prior to using MOVUS FitMachine, Hunter Water faced the challenge of distantly located critical assets.

On a daily basis the teams from Hunter Water were facing up to 30-minute drives in any given direction to reach their equipment, and this came at the cost of their maintenance.

Not only was the time a costly inconvenience, but it resulted in their regimes being centred around reactive and weekly or bi-weekly routine maintenance. This, in turn, became a major factor behind why equipment incidents and failures were escaping detection.

What's more, the long travel times increased safety risks to crew members and induced unnecessary financial, inventory and environmental costs.

To overcome these challenges, Hunter Water knew they needed to implement smarter maintenance. Insight into how equipment behaved, particularly remotely, was vital to work in a more efficient manner.



WHY FITMACHINE WAS THE PERFECT SOLUTION

After identifying MOVUS FitMachine as a cost effective, fast-to-deploy, low-risk option, Hunter Water implemented a pilot program across six pumps stations.

Since, FitMachine has provided Hunter Water's maintenance team with continuous condition-based assessment on stations of high criticality to their network operations.

It's thanks to FitMachine's early warning of condition changes that the teams have been able to shift from reactive to predictive maintenance.

Using FitMachine's condition monitoring and predictive indicators as prompts for initiating maintenance, Hunter Water has been able to catch equipment condition patterns and anomalies that have otherwise escaped detection.

THE RESULTS

With 24/7 insight into their asset's behaviour, Hunter Water has been able to dramatically reduce the number of visual inspections performed by maintenance crews.

Teams no longer are faced with long drives and the associated risks in order to understand their equipment's condition.

Now, they have eyes on their critical assets no matter where they are.

This remote visibility has reduced costs, saved resources, cut risks and increased day-to-day worker safety.

Ultimately, FitMachine has allowed Hunter Water to increase the maturity of their maintenance through development of a more efficient and targeted asset maintenance regime.

KEY OUTCOMES

- > **Achieved 24/7 Equipment Visibility**
- > **Optimised Maintenance Practices**
- > **Increased Worker Safety**

THE CUSTOMER

Hunter Water provides water and wastewater services to over half a million people across the Greater Newcastle region.

With a strong vision to be the leader in sustainable water services and utility solutions for customers, Hunter Water utilises a team of almost 500 to deliver superior service.

Alongside enhancing the environment, their operational excellence has delivered great results for their customers and the community of the Lower Hunter.



"The MOVUS device did wonders keeping an eye on our equipment for us, because we've got such a wide-ranging network that we can't get out to pump stations every day."

TOM HARTIGAN
Mechanical Engineer

START NOW FOR FREE

FitMachine is a world-leading continuous condition monitoring solution with a proven track record of helping customers avoid unplanned downtime, lost production, and expensive repair costs.

FitMachine's 24/7 monitoring of conditions including vibration, acoustics, and temperature, combined with AI and Machine Learning layers, instantly alerts teams to equipment abnormalities.

Get started today and experience the simplicity of FitMachine and the power of MachineCloud via:

[**https://learn.movus.com.au/trial**](https://learn.movus.com.au/trial)