

TBox LT₂

STRENGTHENING REMOTE IRRIGATION MONITORING IN TASMANIA



THE CHALLENGE

The Don Irrigation Scheme in north-west Tasmania supplies high-reliability irrigation water across the Don, Forth, Barrington and Sheffield districts. With three pump stations, balance tanks and 53 kilometres of distribution pipeline, the scheme depends on reliable monitoring across geographically dispersed property outlets.

Many sites are remote from mains power and fixed communications infrastructure, so Cromarty needed a low-power telemetry solution that could provide dependable cellular communications and consistent flow and pressure data to Tasmanian Irrigation's central SCADA system. Previous telemetry technology had been trialled but was not robust enough for the remote signal conditions.

THE SOLUTION

Cromarty worked with Ovarro to deploy TBox remote telemetry units across the remote outlet installations. The units were selected for their compact all-in-one design, low power requirements, communications protocols and proven reliability. They also support physical I/O, DNP3 and integration with the existing SCADA environment.

The solar-charged solution communicates over cellular networks, allowing the RTUs to collect pressure and flow data from property outlets and send it to Tasmanian Irrigation's central system.

Ovarro supported the communications set-up, while Cromarty developed and tested code off site to create a repeatable template for deployment across multiple installations.



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WATER



MONITORING
& CONTROL



RTU'S



SUCCESS

Since deployment, the TBox RTUs have performed reliably with minimal issues, giving Tasmanian Irrigation consistent visibility of flow and pressure data from remote property outlets. This supports more effective oversight of the network, helping operators identify issues without relying solely on manual site checks and supporting dependable water delivery across the irrigation scheme.



“The TBox is well suited to remote site applications like this one. It is proven on our network, integrates cleanly with our SCADA and performs reliably in the conditions we deploy it into.”

— Michael Holmes, Manager Engineering and Asset Intelligence, Tasmanian Irrigation



OPERATION BENEFITS

The telemetry system gives Tasmanian Irrigation dependable access to data from remote property outlets while integrating cleanly with its existing SCADA system. Its low-power, cellular approach is suited to locations where mains power and fixed communications are unavailable.

The project has also established a repeatable approach for future schemes. Following the Don Irrigation Scheme, Cromarty has been awarded further work involving additional TBox RTUs for the Northern Midlands Irrigation Scheme.

KEY DELIVERABLES

- Reliable remote flow and pressure monitoring
- Low-power, solar-charged cellular telemetry
- Scalable TBox RTU integration with existing SCADA
- Improved visibility across remote irrigation assets

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