

CASE STUDY

Live level monitoring in bulk sugar silos virtually eliminates futile deliveries



RESULTS

- Remote real-time level measurement ensures optimal use of silos
- Eliminates reliance on end users providing last minute stock re-orders
- Greatly reduced transportation costs with less frequent silo refills
- Better supplier/customer relationship
- Virtually eliminated futile deliveries, saving big \$\$

APPLICATION

Live level measurement of liquid and crystal sugar in bulk storage silos using the Tanktel supplied remote terminal units (RTU) for logging of levels.

CUSTOMER

One of Australia's largest suppliers of bulk liquid and crystal sugar

CHALLENGE

A high use customer of bulk sugar storage in 3 x 100 tonne liquid sugar silos and 1 x 70 tonne Crystal sugar silo for the manufacture of confectionary.

Liquid sugar is drawn from the three liquid sugar silos individually and simultaneously if there is a big production run. This usage method presented planning issues for stock delivery.

Previously, the supplier relied on the customer to manually provide levels for re-ordering of stock to avoid stockouts. Due to the nature of the customer's production schedules, the customer often supplied levels too late to avoid a stockout, or conversely requested a delivery quantity that was too large to fit, thus resulting in futile deliveries.

SOLUTION

The key feature of Tanktel's live level monitoring is the ability to view customer levels in real-time and on the move via a web browser. The Tanktel rtu is attached to existing silo level sensors and data is transferred to the telemetry server via the mobile network for viewing.

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SOLUTION cont..

Alarm level notifications can be setup and when triggered are sent to the appropriate personnel to action. Alerts are sent via email and optional SMS. Having access to live data allowed the supplier to view daily, weekly, monthly trends to enable a better understanding of the customer's usage and plan optimal deliveries. It also estimated the time until empty based on current usage. This achieved the desired result of no more stockouts, demurrage costs or downtime for the client.

It greatly reduced the transport costs due to more efficient planning. The supplier was so impressed, it now has all of its customers using the Tanktel live monitoring system.

TESTIMONIAL.

*"Sugar Australia rely on Tanktel to monitor our customer's silos and to minimise futile deliveries to our customers.
Information is real time and our dispatch teams and carriers can check the levels at our customers silos before dispatching trucks to their sites.
Rob from Tanktel is always responsive and goes above and beyond to manage any of our, or our customer queries in regard to monitoring customers silo levels."*

Manufacturers rely on a continuous supply of raw materials to keep their operations running at optimal levels. Allowing suppliers of raw materials to remotely monitor bulk tanks or silos of a manufacturer/producer, ensures scheduled deliveries are always made before materials run out, and in a timely manner that is beneficial to both the supplier and end user. With real time LIVE monitoring, you can be assured that you will have the latest available levels.

Tanktel monitoring is hugely beneficial for logistics planning and has the potential to save many 1000's of dollars with forward planning. Initially developed for tanks & silos it now monitors many other critical processes such as flow, temperature and process status.