Remote Asset Monitoring

Measurement That Matters

Remote Connectivity Significantly Reduces Truck Rolls for Rental Specialists

The Need

With a growing demand for remote telemetry within the mining industry, one of Australia's largest equipment rental specialists identified a need for a remote monitoring solution for their mobile lighting towers and generators.

Previously, data from these assets would need to be manually read and recorded from an HMI panel and entered into the businesses asset management system. This process was often time-consuming and costly, with the need for personnel to visit each asset in the field, often in very remote locations on a mine or construction site.

For a short time, a closed telematics solution was implemented by the company, however direct access to the captured data was limited and only available at a cost, and subsequently a more advanced remote connectivity solution was sought.

The Solution

Over 800 Captis devices were deployed across multiple mining and construction sites throughout Australia of which the equipment rental company serviced. Both the Captis Power+ and Captis Solar data loggers were chosen for their NBIoT cellular technology, which allows the devices to log and send data from remote locations - including battery voltage, fuel level, run time, and GPS location of each mobile generator and lighting tower.

By providing a reliable and cost-effective remote monitoring solution, the equipment rental company can now monitor machine health, optimise asset utilisation, improve billing cycles, and, as a result, raise customer satisfaction. For example, time wasted checking a generator's fuel level that may in fact be adequate to run for several more days can be eliminated, saving time and human resources for the end customer.

Additionally, GPS can recognise that an asset has been returned from site and is not required for use, indicating that said asset can be put on "stand down" for the same period and the customer not charged. Similarly, when GPS recognises that an asset is returned to a depot, a work order can automatically be triggered to prepare the machine for hire once again, with no need for manual inspection.

After seeing such success, the operator is deploying 1,200 further devices across their assets.

800

ASSETS CONNECTED IN REMOTEST AREAS OF AUSTRALIA

MAJOR REDUCTION IN TRUCK ROLLS

kallipr.
IoT Technologies

madison Technologies

well connected

Solution & Application

Captis Multi
800 devices are installed on assets located across Australia with 30 minute data logging intervals during machine activity

Solar Panel
The Solar Panel allows for monitoring in very remote locations and the rechargeable battery allows for more frequent data logging
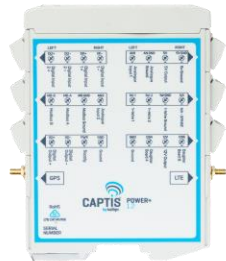
Remote Access
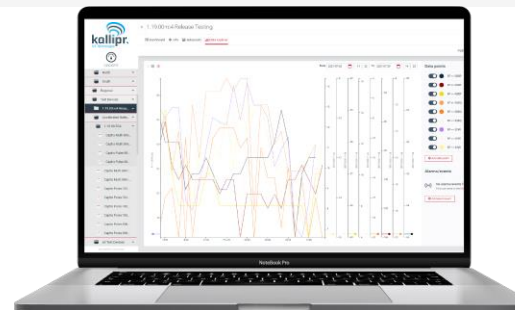The NB-IoT cellular technology enables data to be transmitted from remote locations easily and reliably

Rugged Hardware
The IP68 rated enclosure can withstand extreme temperatures and weather events

GPS Functionality
Chosen for its multi sensor interface that allows for GPS monitoring

Data Logging with Captis Cloud
Data logged in a central hub with pre-defined rules and alarms to ensure real-time data and accuracy

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