

CASE STUDY

CS.OG.003

OFF-GRID Package Connects Point of Interest

LOCATION: SAN JOAQUIN VALLEY
YEAR: 2019
TECHNOLOGY: OFF-GRID PACKAGE

CHALLENGE

Topography, poor road conditions, and remote location mean high costs for traditional infrastructure and physical access challenges.

SOLUTION

NUCLEUS, Tyrion's secure industrial IoT, powers a mobile OFF-GRID solution, providing power and connectivity directly at the point of interest.

RESULTS

Cost-effective OFF-GRID Package quickly deployed, successfully bringing data into the Cloud for easy remote monitoring of pipeline pressures and flow.

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identified the early stages of a constricted line. Having the real-time data and instant notifications, the client was able to utilize the trend history to thoroughly plan the solution and deploy a team to remedy the issue. This minimized the downtime in production and also eliminated the need for constant in person monitoring, reducing unnecessary trips along dangerous terrain.



TYRION
INTEGRATION
SIMPLE • SECURE • SOLUTIONS

EARLY DETECTION OF CONSTRICTED PIPELINE REMEDIED WITH MINIMAL DOWNTIME

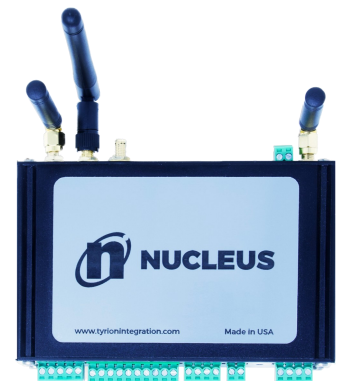
Running cable to monitor downstream infrastructure is costly and time consuming. When an Oil and Gas Producer in the San Joaquin Valley Basin needed to obtain pressures along their pipeline, they traditionally sent someone out to take spot readings. This required significant time and risk, as the location of these monitors was not easily accessible.



OFF-GRID Package

Without any power supply available at the monitor location, the client elected to deploy Tyrion's OFF-GRID Package, powered by NUCLEUS and the Tyrion Cloud. This combination allowed the client to monitor the pressures along their pipeline remotely. The Tyrion Cloud permitted easy access through the client's smart phone or computer.

When the operator received an alert for an abnormal pressure reading, they were able to compare it to other monitors along the line. The operator quickly



NUCLEUS
Industrial IoT Device