

# CASE STUDY

CS.OG.004

## OFF-GRID Package Enables Visibility of VRU

LOCATION: CALIFORNIA  
YEAR: 2019  
TECHNOLOGY: OFF-GRID PACKAGE

### CHALLENGE

Costs of infrastructure minimizes complete visibility of production.

### SOLUTION

NUCLEUS, Tyrion's secure industrial IoT, powers a mobile OFF-GRID solution, enabling visibility of flow and leak detection.

### RESULTS

A previously unmonitored contribution tank is now connected and completes the full picture of field production.

[www.TyrionIntegration.com](http://www.TyrionIntegration.com)



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## MONITORING OF REMOTE TANK ACHIEVED WITH CLOUD- BASED SOLUTION

Due to the cost of infrastructure most vapor recovery units (VRU), which are often in remote locations, are not monitored. When an Oil and Gas Operator in California noticed an anomaly in their production, they had difficulty determining the cause.

It was soon discovered that the contribution of condensate from their VRU had slowed nearly to a halt. This tank did not have any flow meters feeding into the existing SCADA system. As such, the operator had no visibility of the tank's performance.



NUCLEUS  
Industrial IoT Device

Having established the need to make the VRU data visible, the client elected to deploy Tyrion's OFF-GRID Package, powered by NUCLEUS and the Tyrion Cloud. The OFF-GRID Package was paired with a flow meter and tank level gauges.

Once connected to the Cloud, the client gained access to their real-time data. Production trends



OFF-GRID Package

from the VRU granted visibility of the condensate's activity. Alerts of abnormalities were then set to prevent any leaks or reduction in production. The client is now able to get a full picture of their field production and reduce potential downtime from troubleshooting remote processes.