Oil & Gas | United Kingdom

An offshore oil and gas operator cut downtime by 30% with RFID asset tracking

A large oil and gas operator in the UK tagged its drilling equipment and tools with RFID across remote offshore locations, so it knows where every item is and when it needs service.



30%
less downtime

95%
improvement in inventory count accuracy

20%
lower maintenance costs

AT A GLANCE

INDUSTRY
Oil & Gas

REGION
Scotland, UK

SIZE
Large

ASSETS
Drilling equipment and tools offshore

FEATURES USED
Connected | Assets | Maintenance | Insight

01 The client

The client is a major oil and gas company in the UK, operating an extensive fleet of drilling equipment and tools spread across remote offshore platforms and facilities.

Offshore, a missing tool or an unplanned equipment failure is expensive. Equipment has to be found quickly, kept in service and accounted for across every location.

02 The challenge

Equipment and tools were tracked by hand across remote offshore locations. The manual process caused delays and inefficiency, and drove up operating costs.

- Drilling equipment and tools were hard to locate across offshore sites.
- Manual tracking slowed work and added administrative tasks.
- Unplanned equipment downtime disrupted operations.
- Inventory counts were inaccurate, leading to shortages and excess stock.

03 What they set up in Asset Infinity

The operator tagged every piece of equipment and every tool with RFID, installed readers offshore and fed the data into its Asset Infinity asset register.

Connected

RFID tags and readers offshore

Each item carries an RFID tag, and readers installed across platforms and facilities record its movement, creating a tracking network over every location.

Assets

Tag data on every asset record

RFID reads update each asset's record in Asset Infinity, so location and history are current without manual entry.

Maintenance

Maintenance plans and alerts

Maintenance is scheduled for each item, with automated alerts when service falls due, so equipment is serviced before it fails in use.

Insight

Location, utilization and status dashboard

A dashboard shows asset location, utilization and maintenance status in real time, with alerts on asset movement.

04 How it works day to day

Here is how equipment and tools are tracked offshore now.

ASSET COORDINATOR

Tags and registers each item

Every piece of drilling equipment and every tool gets an RFID tag and a record in the asset register.

SYSTEM

Records each move

As tagged items pass RFID readers on platforms and in facilities, the move is recorded against the asset with time and place.

RIG CREW

Find equipment fast

Instead of searching the platform, the crew looks up the item and sees its last recorded location.

SYSTEM

Alerts when service is due

Maintenance plans raise work orders and alerts when an item is due for service, so it is taken out of use on time.

TECHNICIAN

Services the item

The technician completes the work order and records findings, and the asset's maintenance history updates.

STOREKEEPER

Counts stock

Stock counts use the RFID data, so inventory figures match what is actually offshore.

OPERATIONS MANAGER

Watches the dashboard

The dashboard shows location, utilization and maintenance status for every item, with alerts on unexpected movement.

05 Before and after

	BEFORE	WITH ASSET INFINITY
Tracking	Manual, across remote locations	RFID tags and readers record every move
Finding equipment	Time lost searching	Last recorded location on the asset record
Maintenance	Unplanned downtime	Scheduled plans with automated alerts
Inventory	Inaccurate counts, shortages and excess	Counts backed by RFID data
Administration	Heavy manual work	Data flows from readers to the register
Costs	Raised by manual tracking	Lower maintenance and asset management costs

06 How it rolled out

1

Needs assessment. The client worked with the RFID solutions team to review its asset workflows and identify pain points.

2

Tagging and readers. Every piece of equipment and tool was tagged, and readers were placed across offshore platforms and facilities.

3

Integration and dashboard. RFID data was synchronized with asset records in Asset Infinity, and the dashboard and alerts were set up.

07 The results

30% less time spent searching for equipment

15% higher overall operational efficiency

10% lower overall asset management costs

- Fewer stock shortages and less excess inventory

08 Why it worked

No manual entry

Readers record moves as they happen, so the register stays current without crews filling in forms offshore.

Built on a workflow review

Tagging and reader placement followed a review of the client's own workflows and pain points.

One view of the fleet

Location, utilization and maintenance status sit on one dashboard, so managers act on facts from every platform.

09 Looking ahead

With RFID tags on every item and readers across its offshore locations, the operator knows where its equipment is and when it is due for service, without manual tracking.

The gains add up across the operation: less time searching, fewer unplanned stoppages, more accurate inventory and lower maintenance and asset management costs.

See it on your own assets

A 30-minute demo, set up for an oil and gas or energy operator.

The client's name is withheld for confidentiality. Results are as reported by the client.

Book a demo

Start a 14-day free trial