

Driving Operational Excellence in Oil & Gas and Energy Operations



Connected infrastructure. Real-time intelligence. Safer energy operations.

Remote sites | High risk | Limited visibility

Oil & Gas (O&G) operators face growing pressure to improve efficiency, safety, and sustainability across upstream, midstream, and downstream operations.

Upstream



Midstream



Downstream



Key challenges include:



Harsh, high-risk operating environments that limit visibility, increase safety hazards, and demand mission-critical reliability.



Aging and highly complex infrastructure of wells, pipelines, substations and offshore platforms, leading to costly downtime and maintenance.



Fragmented systems and siloed operations across the value chain, slowing coordination and reducing response agility.



Workforce constraints and accelerating knowledge loss as experienced engineers retire and digital skill requirements grow.



Intensifying regulatory, sustainability and cybersecurity demands as O&G transitions toward cleaner energy and more secure, data-driven operations.

The Maxis IoT Advantage

Transforming O&G operations with intelligent, unified connectivity

Maxis Business empowers the energy sector with secure, industrial-grade IoT and private network capabilities—unifying people, assets, and systems across the value chain.



Connect end-to-end assets and systems
Through secure Maxis IoT Private Network capabilities



Unlock real-time insights and continuous monitoring
Across diverse operational environments



Empower field teams to respond faster and operate more safely
With connected digital workflows

Driving Outcomes from Automation and Digitalisation



Increased Operational Efficiency

With integrated IoT systems:
- Automate workflows
- Optimise resources
- Reduce manual intervention



Real-Time Visibility & Better Decision-Making

Continuously track asset performance & environmental conditions to improve visibility & reduce downtime.



Enhanced Safety & Risk Reduction

Connected IoT private network infrastructure drives faster emergency response via:
- Remote detection of hazardous conditions
- Automated alerts trigger



Lower Costs & Higher Productivity

Predictive maintenance reduce repair costs & extend asset lifespan. Secure IoT private networks ensure reliable offshore connectivity & uninterrupted operations.

End-to-End Operational Excellence with Maxis IoT

M2M Connectivity



IoT SIMs support real-time asset monitoring, reducing downtime and improving production efficiency.

Maxis Private Network



A secure IoT private network ensures uninterrupted connectivity for mission-critical system, operations and communications.

AI Visual Insights



AI-driven visual monitoring enhances safety and compliance with real-time alerts and automated inspections.

Productivity 360



Connect production, inventory, quality, compliance and maintenance into a single view, real-time dashboard.

Fleet Management



Optimise fleet utilisation, monitor equipment health, ensure compliance and improve uptime.

CASE STUDY

Use Case: A Deployment for Offshore Platform Permit to Work (ePTW)

Oil & Gas operations typically face these challenges:



Fragmented connectivity, limited offshore coverage



High cybersecurity risks



Delayed access to critical data



Poor internet access affecting worker morale

How Maxis Helped



Deployed Maxis IoT Private Network with secure, dedicated, and scalable connectivity



Enabled IoT, cloud access, and remote monitoring



Ensured data sovereignty and network segmentation



Provided stable internet connection for offshore workers

Real Business Outcomes



Removed information silos for better transparency



Reduced permit processing time from 4 hours to 2 hours



Improved offshore worker well-being through reliable communication

Power safer, smarter Oil & Gas operations with Maxis IoT

Secure connectivity and real-time intelligence for mission-critical environments.



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