CLOUD CONNECTIVITY FOR OIL & GAS

Take your network and applications anywhere

Executive Guide

SES

DELIVERING CLOUD CONNECTIVITY WHEN AND WHERE IT'S NEEDED

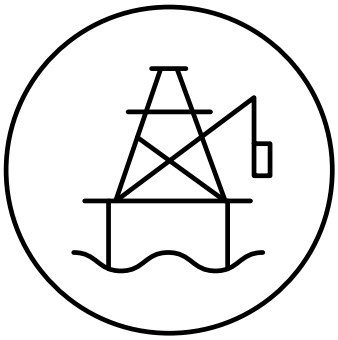
Flexible high-bandwidth and low-latency connectivity enables the delivery of high-performance cloud services and applications to remote oil and gas operations, at sea or in underserved areas on land.

With the recent changes in energy supply and demand patterns, oil and gas companies are reevaluating overall operations and exploring ways to increase efficiencies via the adoption of cloud-based digital technologies. Digitalisation represents an evolution for the oil and gas industry and emerging technologies have the potential to transform future growth via automation, improved agility, and added support for strategic decision-making.

However, the deployment of cloud-based solutions in remote locations such as oil fields, offshore rigs, platforms and refineries presents a significant challenge as these advanced communication, monitoring, and real-time data analytics applications demand high-speed, reliable broadband connectivity.

As the only satellite-enabled network services provider with a commercially proven multi-orbit fleet, SES enables remote oil and gas locations to connect to the cloud with lower latency and improved end-user quality of experience. Our high-performance connectivity solutions support a variety of advanced services, such as Infrastructure as a Service (IaaS), Software as a Service (SaaS), and Platform as a Service (PaaS), in addition to IoT, edge compute and artificial intelligence (AI) services, so you can capitalise on the benefits of digitalisation—everywhere you operate.

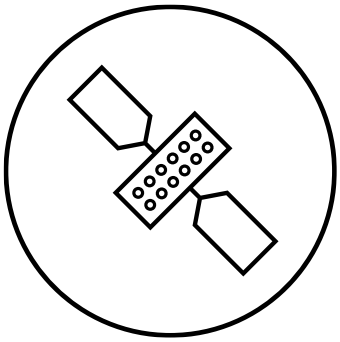
SES delivers the connectivity solutions necessary for a wide range of services and applications, with full access to cloud resources from any location around the globe.



HIGH-THROUGHPUT CONNECTIVITY

For remote assets

SES cloud connectivity solutions enable fibre-like connectivity to remote operations—whether an oil platform or a refinery in an under-served region—ensuring that the huge amounts of data generated by sensing and surveillance systems can be shared with cloud data centres from any location, while also providing high-speed broadband access for crew welfare and safety. Our managed service model ensures you can cost-effectively scale bandwidth consumption throughout the lifecycle of an oilfield based on production rates, crew requirements, and environmental monitoring.



LOW LATENCY

For time-critical operations

Our MEO fleet delivers proven low-latency services, ensuring time-critical operations can be carried out efficiently to ensure that real-time processes and workloads run smoothly. For exploration and production operations, teams can work collaboratively and take decisive action by sharing and analysing information in real-time and realise the productivity and operational agility benefits afforded by cloud and edge technologies.

HIGH FLEXIBILITY

Enabling data exchange between the edge and core

To ensure the centralised cloud, edge compute, and IIoT can work together, oil and gas operations need varying levels of connectivity. With networked communications across both Geostationary Earth Orbit (GEO) and Medium Earth Orbit (MEO) satellites, SES's consumption-based model provides far more flexibility and enables a greater array of optimized applications. Our service also enables customers to access multiple cloud solutions, including Microsoft Azure, Amazon Web Services, and IBM Global Cloud, and resolve key connectivity challenges in their cloud transformation journey.

O3b mPOWER

The future of cloud connectivity

Building on our market proven MEO capabilities, the O3b mPOWER communications system will meet our customers' growing demand for cloud-scale connectivity—by delivering unprecedented system flexibility, performance, and scale.

With thousands of beams per satellite, and an unrivalled ability to route traffic to any end-point, O3b mPOWER enables enterprises in the oil and gas industry to create dedicated, private connections from remote sites to the nearest cloud data centre. O3b mPOWER, together with our current GEO and MEO fleets, ensures our oil and gas customers can leverage the cloud and edge computing to operate more intelligently and efficiently—now, and in the future.

To learn more about our
Oil & Gas connectivity solutions,
please visit ses.com/networks/energy

Request a
quote today

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