

Onshore Oil and Gas

Unparalleled benefits
with telemetry based
continuous monitoring.

Discuss your needs with
GGS today by calling
0161 232 7465 or
email **info@ggs-uk.com**.
Visit us at
www.ggs-uk.com.

- **Confidence in comprehensive, robust data for operators and stakeholders**
- **Access bespoke real-time data through your secure online dashboard**
- **Expert advice from market leading dedicated specialists**
- **Consistency of service throughout the full oil and gas lifecycle**
- **Demonstrate compliance with environmental permits using Best Available Technologies**
- **Support planning applications and Environmental Impact Assessments**



Experts in Continuous Monitoring

Contact

0161 232 7465

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Scotland +44 (0) 1698 442410

GGS is accredited to the following international standards:

- BS EN ISO 9001:2008 (Quality Management System);
- ISO 14001:2004 (Environmental Management System), and;
- OHSAS 18001:2007 (Occupational Health and Safety Management System).

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Experts in Continuous Monitoring

GGs is the UK's leading environmental specialist in telemetry based Continuous Monitoring

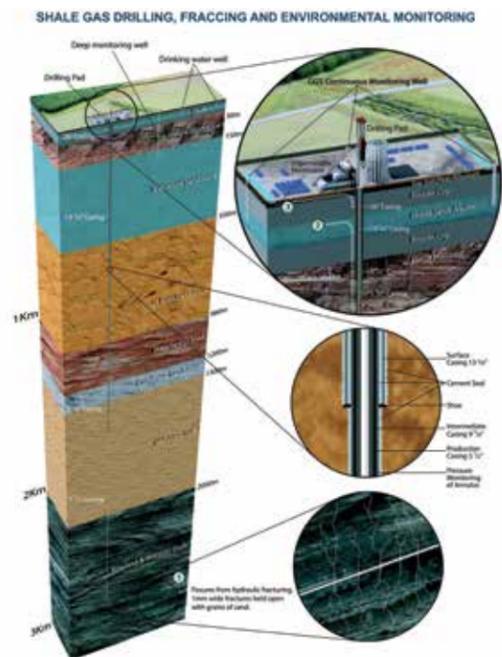
Using best available technologies and real-time data, our multi-skilled team of experts transform high quality information into sound knowledge.

As dedicated professionals and independent specialists, our monitoring strategies, interpretive reports and bespoke data products replace uncertainty with robust evidence.

With a reputation for delivering cost-effective and efficient solutions, GGS provides the highest quality environmental monitoring services that clients, communities and regulators can trust.

Access unparalleled benefits through GGS specialist services:

- Comprehensive, robust data for operators and stakeholders
- Access bespoke real-time data through your secure online dashboard
- Demonstrate compliance with environmental permits using Best Available Technologies
- Support planning applications and Environmental Impact Assessments
- Cost-effective and efficient solutions from dedicated specialists
- Consistency of service throughout the full oil and gas lifecycle



GGs – Experts in Continuous Monitoring

In the emerging UK onshore oil and gas market, GGS offers tailored guidance based on expertise and experience. Our comprehensive service provides a holistic understanding of the ground gas regime through the monitoring, sampling and analysis of key environmental parameters, including ground gas, ground and surface water, surface emissions surveys, soils, NORM, and air quality.

With a history of providing baseline, exploration, production and post-abandonment monitoring, you can rely on our dedicated client focussed approach to deliver the lasting intelligence you need.



Setting the gold standard for UK onshore oil and gas

GGs pioneered continuous ground gas monitoring combined with environmental baseline technologies as the Best Available Technology in environmental monitoring for the onshore oil and gas industry.

These processes are increasingly recognised as the only scientifically sound methods of establishing the true ground gas, air quality and ground water regime associated with shale gas exploration.

As the first company to carry out baseline monitoring on UK shale gas sites, GGS is the principal author of UK Onshore Oil & Gas' (UKOOG) 'Guidelines for the Establishment of Environmental Baselines for UK Onshore Oil and Gas.' We are proud to hold a primary role in facilitating the confident evolution of the UK onshore oil and gas industry.



Your hub of advice and expertise

You can rely upon our skilled and experienced team to provide monitoring advice on key environmental parameters from the planning stages to well decommissioning, including:

- Ground gas regime (continuous monitoring of methane and CO₂ concentrations, isotopic sampling and analysis)
- Ground water quality (including sampling and analysis of dissolved methane and CO₂, and continuous monitoring of electrical conductivity, salinity and suspended solids)
- Continuous monitoring with sampling and analysis of surface water quality
- Sampling and analysis of Naturally Occurring Radioactive Materials (NORM)
- Surface emissions surveys using high resolution instruments
- Air quality monitoring including continuous monitoring of particulate matter (PM₁₀ to PM_{2.5}), sampling and analysis of nitrogen oxides (NO_x), CO, O₃, H₂S, formaldehyde, continuous monitoring of CO₂, and CH₄)
- Sampling and analysis of soils (poly-aromatic hydrocarbons, metals, and total petroleum hydrocarbons)



GGs Data Dashboard: Accessible intelligence

Through combining custom-made features with user friendly applications, the GGS Data Dashboard provides operators with quick access to secure real time environmental monitoring data.

Our team of specialists are on hand to provide expert services to interpret this data to meet your needs.

This combination offers the onshore oil and gas industry the ideal professional support package of reliable data and professional guidance.

Key benefits of the GGS Data Dashboard include:

- Personalised dashboard via a secure portal putting comprehensible data at your fingertips
- Real time data providing immediate insights into your monitoring data
- Automated, detailed reporting with flexible formats to meet your requirements
- Bespoke recommendations and solutions including site specific conceptual models from our team of specialists