

Stack Emissions Monitoring

Environmental Scientifics Group's Stack Emissions Monitoring business is the largest established MCERTS accredited consultancy, providing professional and competitive stack emissions monitoring services. ESG's experienced consultants offer nationwide coverage in the UK and Ireland from six fully resourced regional offices, and have a proven track record of monitoring in Europe, Africa, the Middle East and India.

Services include:

- Routine periodic compliance monitoring to determine compliance with PPC Permit requirements and obligations
- Calibration of Continuous Emissions Monitoring Systems (CEMS) to BS EN 14181 including QAL2, Annual Surveillance Test (AST) and Linearity Testing
- Investigative and process optimisation trials including the use of FTIR to provide long-term and real-time data for specific components of interest
- Monitoring of substitute fuel trials and co-incineration plant
- Plant commissioning and abatement efficiency monitoring projects
- UKAS accredited analytical services for stack gas samples
- Consultancy services and liaison with regulators
- Training and bespoke guidance services for operators in relation to MCERTS requirements, Operator Monitoring Assessment (OMA), BS EN 14181 requirements

ESG has the largest complement of MCERTS Level 2 team leaders and technicians as well as the largest equipment resource of any MCERTS accredited organisation. This enables us to manage the most complex of monitoring projects in a timely manner including a rapid response service and a 24 hour emergency response facility.



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As one of the first companies to obtain MCERTS accreditation back in 2001, ESG now has one of the most extensive MCERTS accreditation schedules. This includes FTIR monitoring in accordance with Alternative Reference Methods (ARMs) such as ASTM D6348-03 (accredited since May 2005), allowing the simultaneous measurement of HCl, HF, NH₃, NO, NO₂, N₂O, SO₂, CO, CO₂, H₂O and organic components reducing time on-site and monitoring costs.

ESG's laboratories and field teams are equipped with market leading analytical and testing equipment. Operating to the highest safety standards our resources and coverage enables us to provide a local service throughout the UK. Reporting is designed to provide clients with formats that enable data to be easily interpreted for use.

Our teams have experience across a wide range of industry sectors including: monitoring Energy from Waste (EfW) plant, incinerators, cement and lime works, crematoria, chemical and pharmaceutical manufacturing processes, power generators, metals refining and processing, gas turbines and boilers, quarries, oil refineries, landfill gas engines and flare stacks, food and drink manufacturers, foundries, and wood and fibre board processes.

Our success is based on four key aspects:

Compliance

In all aspects of ESG's testing, safety, and quality management, our UKAS and MCERTS accredited procedures and systems provide clients with the assurance that testing and data is accurate and reliable. This ensures compliance with International Standards, regulator and trade association guidance, and ultimately acceptable to regulatory bodies such as the Environment Agency (EA), Scottish Environmental Protection Agency (SEPA), Northern Ireland Environment Agency (NIEA) and Irish EPA.

Communication

From initial enquiry to reporting results, ESG are committed to dealing quickly and effectively with enquiries. Drawing on our technical expertise and experience we give personal and professional support throughout. ESG's reports meet all MCERTS requirements and are easy to interpret providing all information required to complete returns.

Safety

ESG operates to the highest safety standards, adopting a safety first approach to monitoring. Working closely with clients ensures all monitoring work is performed safely and in compliance with all current legislation. In addition to all routine safety requirements, ESG has CHAS, SAFEcontractor and UVDB verify certification.

Performance

By providing excellent service and through continuous improvement, we strive to exceed our customer expectations in technical capability, speed of response, report turnaround times and project management.

Ancillary Services

A number of ancillary services are offered including:

- Computer dispersion modelling using the latest software packages, to produce impact assessments, based on emission data either collected by ESG or supplied by the client.
- Odour emissions monitoring and impact assessment using computer dispersion modelling.
- Stack height calculations.
- Environmental site monitoring including ambient air quality, noise, groundwater, trade effluent and surface waters.
- Instrument servicing, maintenance and calibration support services with instrument engineers factory trained in servicing instrumental analysers.

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