

Energy Services

Environmental Scientifics Group's Materials Testing Division leads the market in the provision of sampling and analytical expertise to the UK energy industry, from fossil fuels to low carbon renewable alternatives.

With over 50 years experience in the certification of coal, ESG's Energy Services are the UK's largest totally independent company providing ISO 17025 accreditation for the inspection, sampling, preparation and analysis of coal, solid fuels, biomass and renewable fuels.

Services include:

- Coal and solid fuels sampling, preparation and analysis
- Solid biofuels and solid recovered fuels sampling, preparation and analysis
- Audit and inspection services
- Provision of on-site laboratories
- Seam section and coal stock evaluation
- Coal science – petrography, palynology and consultancy



Energy Services

Commitment to the provision of high quality service, safe working practices and guaranteed integrity of data have secured ESG's Energy Services a reputation as the leading independent provider of inspection, sampling and testing services for both solid fossil fuels and biofuels in the UK.

ESG's central laboratories have the capacity for processing up to 35 tonnes of bulk material each day and the ability to commercially evaluate over 50 million tonnes of internationally traded coal each year.

Coal and Solid Fuels Sampling, Preparation and Analysis

Active at all major ports, providing independent certification of almost 30 million tonnes of coal from over 700 vessels each year, ESG's Energy Services provide sampling and analysis services to major coal supply and power generation companies at both ends of the supply chain. We have a proven track record of capability, independence and integrity and are the only UK company holding ISO 17025 accreditation for hand sampling of coal to the relevant international technical standard.

ESG also operate a multi fleet nationwide transport service with a fully documented chain of custody for material collected from site.

Solid Biofuels and Solid Recovered Fuels Sampling, Preparation and Analysis

To meet growing renewable energy and recycling demands we have expanded our range of services to include UKAS accredited sample preparation and analysis for a broad range of solid biofuels and solid recovered fuels, and have tested in excess of fifty different types of material from a wide variety of industries.

ESG's Energy Services can assist in satisfying Ofgem's requirements for Renewable Obligation Certificates (ROC's) by providing a consultancy service for the completion of initial application fuel management questionnaires for the 'green certificate' and by supplying documented sampling regimes and protocols for a range of products.

Audit and Inspection Services

ESG's inspection services include detailed observation of cargoes, recording of all stoppages, identification of contaminated material and any other anomalies during discharge, and the technical audit and bias testing of UK and International commercial mechanical sampling systems at power stations, pits and other industrial premises.

Provision of On-Site Laboratories

For over 10 years ESG Energy Services have provided fully trained manpower to site to carry out sampling and in-house quality assurance services and for large, long-term contracts we can set up fully serviced on-site laboratories for rapid assessment of coal products.

Seam Section and Coal Stock Evaluation

Sampling of both underground and surface seam sections is offered encompassing full description, analysis and interpretation of individual lithologies together with a composite analysis for the evaluation of overall coal quality. Coal stock evaluation through either borehole sampling or volumetric analysis is also available.

Coal Science

ESG Energy Services have extensive knowledge across all areas of coal science and have the capability to provide expert technical advice. We have offered coal microscopy services to the industry for over 20 years using palynological analysis to determine the geological age of coal in order to establish a likely source of origin and petrography to identify contaminant fuels such as petroleum coke, together with vitrinite reflectance analysis to identify component coals in blends and cargoes. Added to this, we were also chosen to carry out petrographic analysis of coal recovered from HMS Titanic.

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