



Environmental compliance solutions

Improve the management of your financial risks and returns with our **Environmental Compliance Solutions**, ensuring that your assets comply with environmental regulations at all stages of the asset life cycle.

Our solutions

We model, monitor and assess the impact of your assets and their emissions on the environment, and use practical and cost-effective methods to demonstrate compliance with environmental regulations.

Our environmental compliance solutions have been applied to a wide range of asset types in global markets.

They can be integrated with our other solutions to further optimize the value for your business, e.g. fuel analysis, combustion optimization and emissions abatement techniques.

Environmental compliance solutions include:

- Preparation of planning and environmental permit applications as well as environmental impact assessments to support the consenting of your plant.
- Environmental impact assessments of assets, including noise, air, water and land quality studies.
- Safety risk assessments, including fire, explosion and toxic gas releases.
- Monitoring future legislation to ensure you are ready for the proposed changes.

Benefits

Manage financial risks and returns:

- Manage risks of non-compliance with environmental regulations, to maintain asset availability and safeguard revenues.
- Prepare for the introduction of new environmental regulations to inform strategic planning and decision-making.
- Unlock financial benefits from operational changes including flexible operation and fuel switching.

Choose and install the right controls:

- Access expert advice to identify and install appropriate emission controls and monitoring techniques.

Convenience:

- Reduce commercial complexity via our one-stop-shop for environmental compliance solutions, bringing together a wide range of technical and commercial expertise.

References

Project	Scope of work	Location	Capacity
Biomass conversion of coal power plant	Securing permit variations and planning consents. Noise, land and air quality impact assessments.	UK	1,000 MW
New CCGT development	Environmental statement and Environmental Permit application, quantitative risk assessment, permit variation support, noise and air quality impact assessments.	UK	1,275 MW
New biomass CHP plant development	Environmental statement, air quality and noise assessments.	UK	30 MW
Super-critical coal plant with carbon capture and storage FEED study	Air and water impact assessments; preparation of planning and permit applications, supporting full Front End Engineering Design study.	UK	1,600 MW
New gas-fired reciprocating engine array developments	Full planning applications including noise and air quality assessments.	UK	60 MW
Fleet wide risk assessment of new legislation	Identification of risk areas for generation fleet related to developments in European legislation including Medium Combustion Plant Directive, revised National Emissions Ceilings Directive and Industrial Cooling Systems BREF.	Europe	38 GW of coal, biomass and gas plant
Implications of climate change for water availability and resilience	Interpreting model predictions of future water availability in Europe and identifying risks at coal, gas and biomass power generation locations.	Europe	38 GW of coal, biomass and gas plant
New coal plant development	Air quality and water quality modeling assessments to support pre- and post-commissioning consenting.	Thailand	1,400 MW
Technical service provider to the UK power generators' Joint Environmental Programme for over 20 years	Technical support covering a range of environmental issues including air, water and by-products regulations, climate change resilience and adaptation and emissions monitoring and reporting.	UK	> 20 GW
Habitats Monitoring Network	Commissioning and managing of meteorological, air quality and deposition monitoring across a network of ecological sites. Regulatory liaison and supporting modeling and analysis of results.	UK	9 x coal plants 4 x oil refineries
Energy Technologies Institute project – Characterization of Feedstocks	Evaluating biomass species to understand how climate zones, soil types, harvesting systems and storage length can impact on feedstock chemical composition.	UK	–
Dedicated energy crop plantation trials	Evaluation of a range of energy crops, management techniques, yield improvements, financial and environmental modeling and full lifecycle analysis and sustainability criteria.	Europe	–
Post-construction monitoring for offshore wind farms	Marine planning and licensing associated with offshore projects and support infrastructure, management of ecological monitoring, due diligence.	UK	395 MW
Decommissioning and demolition of coal, oil and biomass plants	Securing required permissions and agreements for demolition of infrastructure and site surrender for generation and associated landfill sites.	UK	1,000-2,000 MW sites