

A photograph of four wind turbines in a green field under a blue sky. The turbines are white with blue towers and red and white striped tips on their blades. They are arranged in a line across the horizon. The foreground is a lush green field of tall grass.

**SYSTRA**

|  
**THE SIGNATURE TEAM  
FOR ENVIRONMENTAL SERVICES**  
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# OUR EXPERTISE

SYSTRA have a global commitment to influence climate change. We deliver high quality, innovative and responsive solutions in partnership with our clients and the wider project team, to meet specific challenges and requirements. We serve many different and demanding market sectors including Transport and Infrastructure. We are responsible for managing environmental and ecological risks and developing and implementing sustainable solutions on infrastructure projects throughout the UK.

## ECO DESIGN

Sustainable Development and 'Eco-Design' are both a principle and an approach, supporting the lifecycle of a product or design. The objective is to fulfil our client's needs whilst circumventing adverse impacts to the environment, society and the economy on all of our projects. We promote eco-design by:

- Measuring the carbon footprint at different stages (bids, design, project implementation)
- Use of BIM to integrate ecodesign experts into the design process, a "real time" evaluation accessible to engineers and our client at key decision-making moments
- Promoting the collaboration between all project team members and stakeholders via a systemic approach to design

## CHARTERED COMMITMENT

SYSTRA has joined the movement for the planet "Charte de l'ingénierie pour le climat"

- Considering climate change throughout our projects
- Reducing the carbon footprint of our own activities
- Supporting our employees with their commitments to combating climate change

Our staff are members of the following professional organisations:

- IEMA
- CIWM
- CIWEM
- RISF
- CIEEM
- ICE
- CMI
- APM
- RTPi
- LI
- IES
- CIHT
- AFFI
- BREEAM
- CEEQUAL
- The Science Council
- Society for the Environment

Our environmental policies are developed within the framework of the SYSTRA Ltd IMS that is ISO 14001:2015 certified. All projects are managed according to the requirements of the IMS throughout the project life-cycle and are fully compliant with the requirements of the standard and the SYSTRA Code of Ethics.

SYSTRA Ltd is also a member of The Landscape Institute, IEMA, and is RISQS Accredited.



**DR  
LEIGH  
BREWIN**

**BSc, PGCert, PhD, CSci, FIEEnvSc**  
**Environmental Services Practice  
Director UK & Ireland**

*"Our vision is to provide the technical expertise required to bridge the link between balancing complex infrastructure design requirements with the immediate obligation to conserve biodiversity and protect the natural environment."*

*We pride ourselves on our pragmatic 'real world' approach in seamlessly working with our engineering and design colleagues as well as external stakeholders. We problem solve and balance environmental priorities with client expectations to avoid delays during design and construction."*

[lbrewin@systra.com](mailto:lbrewin@systra.com)



# OUR SERVICES

## CLIMATE CHANGE ADAPTATION

- Business case and funding bids
- Carbon assessments
- Climate change mitigation
- Detailed scheme design and implementation
- Development and assessment of low carbon transport strategies
- Research, strategy promotion and consultation

## CONSENTS AND PLANNING

- Consent management
- Consultation and stakeholder engagement
- Environmental impact assessments and coordination
- Environmental permits
- Planning permission
- Section 278 consents

## CONTAMINATED LAND AND REMEDIATION

- Contaminated land risk assessments
- Ge-environmental site investigations
- Generic and detailed quantitative contaminated land risk assessments
- Material Management Plans (MMPs)
- Preliminary Risk Assessments
- Planning permission, consents and permitting
- Remediation options and Method Statements
- Soil and groundwater remediation design and management
- Validation reporting

## ECOLOGY

- Arboricultural survey
- Biodiversity offsetting/net gain assessments
- Ecological clerk of works and site supervision
- Ecological Impact Assessments EclA
- Habitat creation enhancement and management
- Habitat regulations assessments
- Invasive non-native species surveys
- Phase 1 Habitat Surveys and Preliminary Ecological Appraisal
- Protected Species Surveys and Licensing

## LANDSCAPE

- Environmental and habitat design
- Expert witness at public inquiry and development consent orders
- Graphic design and visualisation
- Initial site survey and assessment
- Landscape and visual impact assessment for environmental statements and appraisals
- Landscape design for all stages of the design process
- Landscape planning services
- Masterplanning/urban design
- Public consultation and stakeholder engagement

## RESOURCE EFFICIENCY

- Action plans
- Geographic Information Systems (GIS) and Data management
- Material optimisation
- Project strategies and frameworks
- Resource efficiency workshops
- Site waste/material management plans
- Waste permits

## SPECIALIST SERVICES

- Air quality
- Clean air zone/low emission zone
- Cultural heritage
- Material assets and waste
- Noise and vibration
- Population and human health
- Stakeholder engagement supporting (planning and consents)

## SUSTAINABLE DEVELOPMENT ASSESSMENT AND SOLUTIONS

- BREEAM and CEEQUAL assessments
- Carbon footprint assessment and reporting
- Circular economy
- Environmental Management Systems
- IEMA and CIWM approved training course provision
- ISO:14001 2015 Implementation
- Site environmental audits
- Sustainability workshops and action plan delivery
- Sustainability audits and reporting

## WATER RESOURCES - FLOOD RESILIENCE AND WATER QUALITY

- Business case development
- Climate and flood resilience
- Civil engineering design
- Hydrological and hydraulic modelling
- Improvement studies
- Infrastructure project delivery
- Research and development
- Regulation and assurance
- Strategic asset management
- Urban planning
- Water resources and water quality planning

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# THE SIGNATURE TEAM FOR ENVIRONMENTAL SERVICES

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**SYSTRA**  
SYSTRA.CO.UK  
environment@systra.com



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