



ECOTEC Research & Consulting Limited is a multi-disciplinary consultancy specialising in strategic, economic, environmental and social research and consultancy services. With group experience stretching over 80 years and some 600 staff from 18 permanent offices in 10 countries, we are ideally positioned to support our clients. Our blend of skills and experience provide us with a deep understanding of the energy and climate change debate and an innovative but practical approach to managing the challenges and opportunities inherent in these areas. Our clients include the European Commission, Government Departments and Agencies, Regional Development Agencies, Local Authorities and a number of private sector organisations.

**Sound analysis, inspiring ideas, effective delivery**

# Our Service

Our Energy and Climate Change services are geared to helping manage the complexity and confusion surrounding the carbon, energy and climate debates driven by UK, EU and international policy, consumers, business and Non-Governmental Organisations. We help our clients to embrace this complexity and unlock the value embedded within actions. The broad areas of service that we offer encompass:

- Policy Research and Advice
- Solutions Development
- Programme Management and Delivery
- Communication
- Monitoring, Impact Assessment and Evaluation



# Our Key Expertise

**Low carbon economy, business advice schemes and innovation:** We support in understanding the complexity and helping to realise value, and aim to be your partner in addressing challenges such as:

- What is the potential impact of a low-carbon economy on our region, industry and / or business strategy?
- How do we manage our carbon footprint, climate risks and carbon market exposure?
- What is the impact of carbon pricing on our cost base? Can we pass on cost increases to our customers? How does this compare with the position of our local and international competitors?
- What are our options to improve resource efficiency in meaningful and tangible ways that enhance our reputation with clients and customers whilst helping the bottom line?

**Renewable and low carbon energy:** We help understand needs, opportunities and how to capitalise on these by working with you to address strategic questions such as:

- What and where is the renewable energy and low carbon potential in the region (technical and realistic)?
- What proportion of the potential is viable? What are the options for and impacts of potential interventions?
- What are the cost and non-cost (skills, supply chain, planning) barriers, risks and management options?



**Climate Change legislation, policy design and target setting:** We support throughout the full policy cycle, from options definition and feasibility to evaluation and impact assessments; helping address questions such as:

- How can we link mitigation with adaptation and social policy? What can we do that is different?
- How can we enhance actual delivery / progress on the ground? What are the funding / investment options?
- What are the gross value added / strategic added value of programmes / policies?

**Low carbon skills, supply chain and gap analyses:** We help identify and manage gaps and barriers aiding the delivery of value through the transition to the low carbon economy answering questions such as:

- What low carbon supply chain or skills gaps and opportunities exist in this area? What is the cost-benefit balance of addressing gaps?
- What is the potential in 2020? What discontinuities exist / step changes are required?
- What are the wider policy and market developments and how will these impact decisions?
- In the context of a major regeneration scheme, how do we embed long term environmental sustainability?






# Our Services and Products

At ECOTEC we understand that every project is unique, requiring a custom approach in order to optimise the effectiveness of outcomes. While many approaches focus simply on technical and predictive assessment, we step beyond this by drawing on our strengths in assessing viability, environmental and social interfaces to deliver real technical and behavioural change. We bring a variety of skills and have developed a range of services and products that can be successfully blended to meet your precise project needs.

A selection of these is outlined below:

- **Baselining** – We apply quantitative and qualitative research tools to establish a baseline position from which to capture trends and measure change.
  - **Economic, social and environmental appraisal and modelling** – We conduct project and programme appraisals for public sector agencies and funding bodies and have particular expertise in conducting Green Book and Impact Evaluation Framework (IEF) appraisals and cost-benefit analyses. Our services include carbon footprinting, scenario development and probabilistic forecasting to estimate opportunities, risks, costs and benefits.
  - **Policy and strategy development** – We have very extensive experience of supporting clients in policy and strategy developments, particularly around zero and low carbon economic development, enterprise, innovation, regeneration and skills.
  - **Programme and project development** – Drawing upon our suite of services, we are particularly well placed to support clients during the development stages of low carbon economic development and carbon and energy interventions.
  - **Skills assessment** – Our understanding of labour markets and low carbon futures is a unique blend of capability that means that we are well placed to conduct assessments of skills demand in relation to the low carbon, eco-industry and energy related sectors.
  - **Market / capacity building** – Our services include comprehensive training and engagement capability in relation to carbon, carbon markets, skills development and optimisation of opportunities presented by development of eco-industries.
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- **Feasibility testing** – We collate, analyse and interpret a range of data and information to support clients in establishing the need and demand for a proposed project development; understanding the resource and opportunity and evaluating the viability of delivering change, considering both tangible and intangible costs and benefits.
- **Strategic option, risk and opportunity analyses** – We identify and prioritise key drivers for change behind carbon constraints on future markets, evaluate competitiveness and assist in understanding the risks and opportunities (regulatory, costs, revenue and reputational) of direct and indirect emissions, products and skills. We support in the development of business and investment strategies in consideration of the drivers for change and future carbon scenarios.
- **Funding support** – We have a high level understanding of a plethora of funding opportunities available and have the ability to support strategic funding and case making. Our experience is directly informed through ECOTEC's management of major European funded programmes and extends through to the use of monetised emissions reduction benefits in support of projects.
- **Impact assessment** – We capture the economic impact of organisation, industry sectors, physical developments and events, in terms of the direct and indirect impacts, and any associated environmental, social and cultural impacts. We use predictive techniques to establish the potential impacts of decisions, programmes, strategies and policy.
- **Partnership development** – We support clients in identifying effective governance and organisational structures, outlining appropriate delivery mechanisms and developing sustainable strategies.
- **Evaluation and monitoring** – We have a strong track record of providing clients with evaluations that offer a valuable unbiased viewpoint of the economy, efficiency, effectiveness and impact of interventions. We support Local Authorities in understanding progress, projections and reporting against targets and commitments.



# Example experience

**Environmental Technology Sector Mapping (Yorkshire Forward)** Mapped companies in the environmental technologies sector, reviewed market drivers and barriers at all levels and developed a regional SWOT analysis.

**Business Resource Efficiency (South West Regional Development Agency)** Assessed resource use, advice available and evaluated the size and benefits of improving resource efficiency. Provided recommendations to strengthen support.

**Occupational and Functional Mapping of the Renewable Energy Sector (EU Skills)** Developed an occupational and functional map of the energy and utility skills sector identifying gaps, barriers and priority areas for development.

**West Midlands Energy Strategy (Advantage West Midlands and other regional partners)** Developed an energy strategy and regional actions to contribute to meeting national targets for tackling climate change.

**Low Carbon Vehicle Technology (Advantage West Midlands)** Economic impact and risk assessment of policy options to develop low carbon vehicle technologies.

**DG Tren Boiler Impact Assessment (EC DG TREN, European Commission)** Impact analysis of economic and environmental costs and benefits of proposed EU legislation regarding domestic water heaters and boilers.

**Effectiveness of Inspections (Environment Agency)** Evaluated the effectiveness and cost-effectiveness of site inspection based on compliance theory, logic analysis and the rationale for inspection.

**Ex-ante Evaluation of Building Workforce Training in IEE (EC DG TREN)** Assessed policy options under Intelligent Energy Europe II to address skills gaps relating to renewable energy and energy efficiency.

**The European Climate Change Programme and member states' climate change policies and measures (EC DG Environment)** Comparative evaluation of national policies and measures to address climate change issues, from five Member States.

**Assessment of non-cost barriers to renewable energy growth in EU Member States (EC DG TREN)** Comparative analysis of policies to remove social, political and institutional barriers hampering renewable energy development.

**Identifying environmental/climate change skills relevant to London construction and built environment businesses (Newham College of Further Education)** Evaluated skills needs, gaps and shortages in the construction and built environment sector in London, with a particular focus on retrofit.

**Skills Needs for a Low Carbon Northwest (North West Development Agency)** Assessed the trends, opportunities, challenges and low carbon skills needs. Provided a gap analysis and recommendations for priority actions.

# Advantages of working with us

In the current economic climate, it is important that efforts to reduce emissions and manage climate risks are not sidelined - they present the opportunity to increase efficiency, respond to wider environmental and social challenges, improve brand / public image and, importantly, save money. The key is to ensure that this is achieved in an effective and efficient way that demonstrates good value for money. ECOTEC can help you deliver this.

- 1 Our strong reputation is backed by 80 years of group experience of providing research and consultancy services and public policy advice.
- 2 We work at a local through to international level, which ensures a deep understanding of the latest policy issues and a keen awareness of the practical implications of decisions and aspirations.
- 3 All of our projects are delivered by bespoke multi-disciplinary teams that provide the appropriate sets of skills and experience to support your organisation.
- 4 Our staff are friendly and approachable and take pride in developing strong relationships with clients.
- 5 Our wide range of qualitative and quantitative research tools, engagement and communication approaches results in leading edge analytical and business support.
- 6 Our strong in-house survey team offers a full range of market research services.
- 7 We are always willing to challenge previously accepted views and conventional wisdom, allowable original analyses and creative policy responses.
- 8 Our approach is flexible and appropriately tailored to meet your needs, whatever the size and scale of the work you envisage.
- 9 Our international presence in 10 economies and recent work experience in 140 different countries gives us a global perspective, tailored to local needs.
- 10 Our quality assurance processes, independently certified to the international ISO 9001 standard, embed continual improvement and customer satisfaction into the lifeblood of the organisation.

For more information or to request an informal meeting with one of our specialists contact:

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**ECOTEC is an ISO9001 accredited company**