



## Energy and Waste



Masterplanning is no longer simply a matter of producing visionary drawings. With changes in legislation and attitudes of policy makers and the public, masterplanning has become a far more complex process with as much emphasis on determining and understanding the real impacts of a proposal as there is on the vision itself.

The ability to masterplan and advise strategically is now a mix of flair, understanding, technical skills and the deep experience of delivering successful work; at Gifford it's about sharing excellence.

It's this excellence - this blend of professional capabilities - which enables us to plan schemes, projects and strategies with a realistic chance of implementation. And it's why clients return to us again and again for assured solutions; from the review of intentions sourced in-house, to a masterplan commission itself and the design of a complete proposal. This is particularly true in the sectors of waste and energy which, along with transport (another core Gifford skill), are intrinsically linked to form the key sectors in developing sustainable masterplanning strategies.

## Energy

Energy policy and strategy has become a central issue for all national governments, particularly in recent times, and will continue to become a more acute issue going forward. Gifford has experience and expertise in two key areas:-

### Consultancy

- Renewable energy support schemes
- Advice on Climate Change Levy
- Advice on renewals obligations in the UK
- Integration of renewables into existing generation and distribution facilities
- Strategic environmental and technical planning and assessment of renewable technologies
- Carbon trading
- Advice on traceability and trading certification to comply with European Union Emissions Trading Scheme.

- Biofuels trading certification
- Sustainable biomass projects – use of certification systems to attract investment
- Energy economics
- Assessment of commercial feasibility of energy generation strategies
- Economic assessment of renewable development costs and tariffs
- Energy trading and energy generation

## Energy and Environmental Markets

- Design overview
- Operational review and advice
- Regulatory overview
- Negotiation and advice on developing energy contracts in potential energy markets

In addition to our work here in the UK (including as consultants to the DTI on renewables obligations and for organisations such as Friends of the Earth and the British Wind Energy Association) our strategic energy experience includes considerable overseas work;

- Design of prototype energy markets for the World Bank in Turkey and Ethiopia.
- Development of energy regulatory and legal frameworks in Cyprus and China.
- Development of renewables certification schemes for carbon trading and biofuels sourcing in Netherlands and for the A.I.B (Governance organisation for the European Energy Certification System)
- Energy and carbon trading advisory projects in Eire, Nigeria, South America and Asia.

And, because of our engineering background, Gifford is able to supplement the strategic masterplanning advice with modules such as site energy modelling, site scale renewables and low carbon technologies, community scale energy infrastructure design and site/development energy procurement design.



## Waste

Gifford's waste management consultancy team has been established with our long-term Irish partners, Fehily Timoney, to provide waste consultancy advice to clients in the UK and abroad. Completely at home in the regulatory environment, Gifford has undertaken commissions from small strategic studies to major government funded and PPP schemes. We've advised central government, private sector service providers and local waste authorities including Lincolnshire, Dorset, Hampshire and West Sussex County Council.

Our success is also derived from a true empathy with the political, social and economic issues; we understand the problems inherent in delivering sustainable solutions; the pressures facing government, local and regional authorities and industry itself; the escalating costs involved in waste management and the challenges of changing public perceptions and in winning support.

To meet these challenges Gifford offers a range of services, all available as individual modules or as a sequential programme where we partner the client to achieve objectives. Clients can choose from:

- Review of strategies
- Production of - and consultancy on - the business case for waste
- Strategies and policies for specific waste facilities
- Strategic advice on waste modelling, recycling, mechanical and biological treatments, energy from waste, landfill and biological and hazardous waste treatment
- Masterplanning and procurement advice for specific waste facilities.
- Provision of transportation, environmental and sustainability impact advice and assessment in connection with waste strategies.
- Public consultation, education and professional training seminars
- Related disciplines including geotechnical, environmental monitoring, environmental impact, contaminated land remediation, hydrology and transport planning.





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