

# RENEWABLE ENERGY AND ASSOCIATED TECHNOLOGIES

***Continuing concern over the potential impacts of climate change has resulted in global action aiming to protect the environment whilst also diversifying and securing energy and electricity supplies.***

***For example, within the European Union (EU), the requirements of Directive 2009/28/EC on the promotion of use of energy from renewable sources (the Renewable Energy Directive) are such that Member States are required to commit to specific individual targets consistent with an overall target of at least a 20 per cent share of energy from renewable sources in the EU's gross final consumption of energy in 2020. For the United Kingdom, the specific target is set a 15 per cent share of energy from renewable sources.***

***As a result of these requirements and targets, there is currently large scale promotion and rapid uptake of renewable energy generation technologies.***

In the United Kingdom (UK), the promotion and uptake of renewable energy generation technologies is supported and encouraged through a number of schemes, including the Renewables Obligation (RO), small scale Feed-in-Tariffs (FiTs), the Renewable Heat Incentive and the proposed Electricity Market Reform Contracts for Difference (CfDs).



However, there are still many obstacles on the route to the development and operation of renewable energy technology projects.

## ***Our Capabilities and Key Experience***

Through early identification, these obstacles can often be easily avoided or mitigated.

Based on our joint previous experience, the WPA team are able to provide assistance throughout all key project phases for renewable energy generation technologies, from initial project / site identification and screening, through pre- and full

-feasibility stages, to project consenting (including planning applications and environmental impact assessment) and project operation.

The WPA team are also able to undertake environmental and technical due diligence exercises across a vast range of renewable energy generation technologies.

The WPA team members have worked on various wind, solar and biomass projects for many years. This work has included identifying sites and preparing planning applications which have an extremely high degree of success.

For example, in the wind sector, our engineers and consultants have worked on single wind turbine projects to large multi-wind turbine projects. In the solar sector, our engineers and consultants have worked on projects sized up to 30 MW. In the biomass sector, our engineers and consultants have provided assistance for some of the largest proposed biomass power plants in the UK, including the Tees Renewable Energy Plant and the Anglesey Aluminium REP, both sized at 300 MW.

As a result, the WPA team are also able to develop programmes of work that minimises cost to the Client which systematically identifying and addressing key risks and issues.

Key experience of the WPA team members includes advising the UK Government on revisions to the FiT scheme in 2012 / 2013.

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