

## Understanding the Weather for Low Carbon Buildings

The Climate Change Bill; Carbon Reduction Commitments; the Climate Change Declaration; Single Outcome Agreements; the Energy Performance of Buildings Directive; Planning Advice Note (PAN) 84. Driving down the carbon emissions associated with buildings is now a key concern for local authorities, the government and its agencies. These and many other new mechanisms place the public sector at the heart of delivering tangible action on climate change. But despite these drivers developments on the ground often fail to deliver.

Without detailed site data public sector property owners and policy makers are liable to be left disappointed by low renewable energy yields, poor efficiency gains and the resulting carbon accounts. The key to avoiding this is gaining an accurate measure of weather conditions at specific sites - to calculate the available renewable energy resources, and fully understand the potential energy performance for proposed and existing buildings. Mirspot addresses this pressing market need.

### Mirspot approach

- Captures and analyses any site specific weather data set
- Integrates real weather data with detailed topographical site mapping
- Provides an accurate assessment of site energy resources
- Provides an assessment of weather-related building energy performance
- Accurately identifies best Low and Zero Carbon (LZC) options for highest ROI

### Current industry practice

- Does not recognise the link between the weather, energy availability and building energy performance
- Often relies largely on generic Met Office data
- Does not account for localised effects of weather on building energy performance
- As data is not site-specific ROI calculations are inaccurate

### Services Components

- State of the art and integrated capture and modelling of local weather and building energy data
- Detailed analysis and recommendations based on site-specific opportunities and constraints, and clients' operational needs
- Customised reporting, supported by graphical and / or raw data, suitable for planning evidence, loan applications or sales / promotional materials

### Benefits to Your Authority

- Accurate assessment of site-specific renewable energy resources
- Weather-related building energy performance assessment
- Fully integrated Low and Zero Carbon (LZC) design strategies
- Clearer site / asset performance comparators for market place
- Better data brings more confident investment and sales strategies
- Better informed due diligence reduces business risk
- ROI and payback predictions strengthen
- Greater carbon accounting predictability
- Demonstrable leadership in acting upon own climate change policies

