

## Delivering Low Carbon Buildings Depends on Accurate Weather Data

Demand for low carbon buildings is growing rapidly as ever more ambitious targets are adopted by all levels of government and business but delivering these is a real challenge. Tightening planning guidance and building standards must be met, building operating costs reduced, and stakeholder concerns addressed, while achieving good design and aesthetics. Despite emerging good practice, evidence shows that many renewable and low energy developments fail to deliver their expected benefits.

Without detailed site data and information, designers' ability to accurately model and assess building energy performance is inherently limited. Clients and building operators are liable to be left disappointed by low energy yields and efficiency gains, and unexpectedly long paybacks. 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 building energy performance. ClimateCapture™ addresses this need.

### ClimateCapture™

- 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

### Benefits to Your Business

- Accurate assessment of site-specific renewable energy resources
- Weather-related building energy performance assessment
- Fully integrated Low and Zero Carbon (LZC) design strategies
- Better quality data brings more confident decisions and designs
- Better data informs design solution discussions with planners
- Lower carbon assets and more reliable renewables fulfils client goals
- Service differentiation, competitive edge and marketing potential

### Services Components

- State of the art integrated capture and modelling of local weather and building energy data through ClimateCapture™ software
- 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

