

## BREEAM & BREEAM Compliance Services

BREEAM is a assessment methodology and standard for independently measuring and assessing the sustainability credentials and performance of non-residential buildings. The BREEAM standard is increasingly referenced as a mandated sustainability requirement of planning policy and being enforced through specific conditions within Planning Permissions. BREEAM sets the standard for best practice in sustainable design and is the de-facto measure used to describe a building's sustainability and environmental performance.



### *BREEAM Services & Sustainability Advice*

Sol Environment are licensed BRE assessors and provide Accredited Professional (AP) services on all developments under the BREEAM New Construction, Fit-out and Refurbishment schemes.

Sol Environment has provided innumerable clients with sustainability advice. Our services can assist development teams in achieving the desired BREEAM standard, optimising their scheme, to provide the maximum available credits, from targeting easy-wins to innovative and beneficial sustainability features.

As an integral member of the Design Team, Sol are also able to provide a range of in-house services to assist with achieving BREEAM Compliance.

### *Life Cycle Costing & Service Planning [Man02] and Life Cycle Assessment [Mat01]*

Sol Environment are recognised 'competent persons', able to carry out Life Cycle Costing exercises and Life Cycle Assessments using accredited software.

Sol work closely with the project Design Team to ensure that the tasks minimise the Life Cycle Cost of the development (including service life costs; maintenance costs and operational costs) over the buildings lifespan, whilst maximising the sustainability credentials without compromising the buildings functionality.

Completion of LCA and LCC exercises during RIBA Stage 2 of the project can result in the award of up to 2 credits under Man 02 and up to 7 credits under Mat 01 dependant on specification.

### *Reduction of CO<sub>2</sub> Emissions [Ene01]*

Sol are licensed Non-Domestic Energy Assessors (NDEA) and are able to offer full SBEM and EPC services. Dependent on design, up to 9 credits can be awarded under Ene 01.

Sol are also able undertake additional detailed energy modelling to generate predicted operational energy consumption figures and under take risk assessment to identify any significant design/technical risks that can be monitored and highlighted during the construction and commissioning process. This is a new requirement for the BREEAM 2018 scheme, and dependent on outcomes, an additional 4 credits can be awarded under Ene01.

### *Thermal Comfort [Hea04] & Low Carbon Design [Ene 01]*

Sol are to conduct full Dynamic Simulation Modelling (DSM) to establish the developments ability to provide sufficient thermal comfort during a variety of seasonal scenarios. This information can be utilised by the project design team to determine the most appropriate thermal zoning and controls strategy to ensure that internal conditions are appropriate for building users. Further modelling can be completed to ensure that these parameters are maintained throughout the buildings service life.

DSM software can also be utilised to complete passive design analyse, and model a number of scenarios to specify the most appropriate LZC technology to reduce the buildings carbon emissions and minimise energy usage.

Up to 3 credits can awarded under Hea 04 and Ene 04 respectively dependent on scope.

### *Sol Environment Ltd*

Sol Environment Ltd are fully licensed assessors for both CSH and BREEAM schemes and are CIBSE accredited Low Carbon Building Design Consultants.