

Working as an extension of your resource team, we provide well informed, unbiased, site specific advice on all aspects of sustainability on traditional or modern building systems, including energy management and renewables.

Sustainability is an everyday part of any building project. The challenge can often be how to weave sustainability into a project with practical, affordable answers that can deliver improvements to the client's building and enjoyment of their house.

Whilst not every client necessarily wants to build an eco house, we can help you to help them make informed decisions about sustainability, whatever their building project and lifestyle choices.

We work with architects advising on small scale renovations or large scale low and zero carbon developments within the architect's master plan or co-ordinating the work of a project team. We can examine a client's needs and make proposals in a coherent and economically viable way.

We are happy to work directly with clients or in collaboration with an architect or design team. This may extend to providing input and having communications with planners, building inspectors and structural engineers concerning technical issues.



We help clients to create comfortable homes that are practical to live with and inexpensive to run

How we help you stay ahead with sustainability

CLPM like to **profile the project at the earliest possible stage** to ensure that sustainability is built into both the plans and the budget.

CLPM aren't aligned to any technology or installation business. We put the client first and then match them to the right solution for their home.

CLPM have extensive experience of renewable and energy efficiency measures and keep as up-to-date as possible through research and interaction with industry leading manufacturers and organisations. We also have a good understanding of how the application of the individual technologies can impact on performance.

CLPM review the relationship between the building, or site, the technology and the occupants so that **optimum performance can be achieved with the lowest impact and that expectations are realised.**

Our capabilities include

Environmental building (low carbon construction) to meet the highest energy efficiency standards; zero heating, zero CO2 standards and autonomous homes

Technical information on the building envelope covering material choice, insulation, glazing and ventilation

Analysis of heat gains/losses, heat input requirements and thermal capacities of buildings

Water usage and collection capabilities from building and surrounds (including conservation considerations)

Filtration requirements and options. This could be extended to provide an autonomous water supply and waste water/sewage systems

Renewable energy generation

Eco-refurbishment

The green baton concept

Howard Liddell introduced the concept of the green baton. He suggested that it is important, and necessary, to start with high sustainability aspirations and to involve the widest range of interests in the design process. There is a high risk of the 'green baton' being dropped throughout the process and particularly as responsibilities are transferred from the client, to the design team, to the contractor, and back to the client.

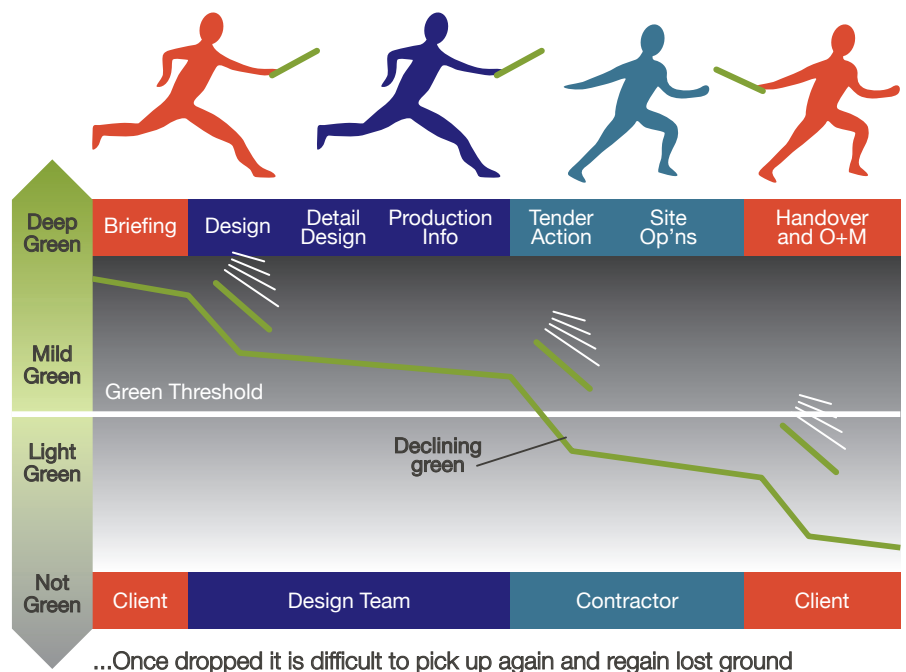
A project with low expectations and little support will find it difficult to withstand the wide range of pressures and be unlikely to have green credentials at all by the time it is delivered. These pressures cannot be underestimated. For an inexperienced client or design team it will be helpful to employ a specialist to set the aspirations and to oversee their progress throughout the construction period.

David Hilton

David Hilton is our head of sustainable services. He is the sustainability expert to Grand Designs Live Shows and has contributed to Grand Designs Magazine, Built It Magazine, London Metro and the Independent newspapers. David also delivers CPD talks on renewables and modern building methods as well as training installers of heat pumps, photovoltaics and solar thermal systems.

Get in touch

For more information, please contact David Hilton via telephone on 07725 553715, or email at david@charlielaing.com, who can explain our services in more detail and discuss how we may be able to help your practice.



Howard Liddell's green baton. The construction period is described here in set periods – with dominant levels of responsibility transferring as the project progresses.

How we can help pass on the sustainability baton?

Briefing

One of our project managers visits the proposed site to ensure we have the best understanding of the project and clearly understand your design requirements. At this stage we can ensure a sound renewable energy proposal is offered within the master plan; one that will meet strict carbon reduction targets if required, one that is properly costed, and one that will be achievable in the actual build.

At a further level, post planning, we offer full renewable energy design to meet any performance specification.

We can review your drawings to see if we can improve them to provide a more energy-efficient/sustainable design.

Design, planning

The design concept should demonstrate your sustainability objectives. We can help define and cost these and provide any support information required for planning or listed building applications.

Detail design, building regulations

Once planning permission is gained you will need to consider the next level of technical detail to meet the latest set of building regulations. We can contribute at this stage as much as you wish.

Tender action

We can provide competitive quotes at the tendering stage for the fabric of the building, including structurally insulated panels (SIPs), insulated concrete formwork (ICF), thin joint masonry, timber frames, natural materials and insulation, to a whole range of renewable technologies, including solar thermal panels, photovoltaic arrays, air, ground and water source heat pumps, biomass boilers and rainwater harvesting and more.

Site operations

We can recommend suitable contractors for installation.

Handover and O+M

We will oversee commissioning and make sure that the client is provided with all the certificates, guarantees and instructions for running their new systems as well as providing training if appropriate.