Ultra-low energy building

Our pathway to zero carbon

The industry is on a journey towards zero carbon and we have an opportunity to lead by example. As signatories of Architects Declare and contributors to the London Energy Transformation Initiative (LETI), we have campaigned to push for faster change. We are working hard to turn advocacy into a built reality by collaborating with clients, stakeholders and design teams to achieve a zero carbon future. This has led us to pursue ultra-low energy design as the first step towards achieving zero carbon in operation.

Brie Holding a start-up zero carbon workshop Integration of zero carbon Referring to existing case studies targets into the design Setting clear targets Establishing a zero carbon consultant team brief by: Desig · Achieving an ultra-low energy fabric Integration of zero carbon • Using energy modelling to predict performance targets into the design of Making the project fossil fuel free in operation the building by: · Maximising the installation of on-site renewables Constructio Ensure quality assurance Monitoring and testing of the building performance and guarantee performance on-site during construction by: · Ensuring that targets are met Post-construction · Monitoring the building post-construction Verify whether the project • Comparing the actual building performance to targets achieves zero carbon on · Learning from the project and sharing feedback site by: Declaring the building performance Project meets zero carbon targets

What is an ultra-low energy building?

We define ultra-low energy as a building designed to Passivhaus levels of efficiency.

We have developed an 'Easi Guide to Passivhaus Design' with Etude, who we share a number of our projects with, to help designers and clients follow ultra-low energy design principles from day one. This will enable us to use Passivhaus design as the best practice starting point for every new project we do. Clients will no longer need to ask us to design to zero carbon, instead they will need to instruct us not to.