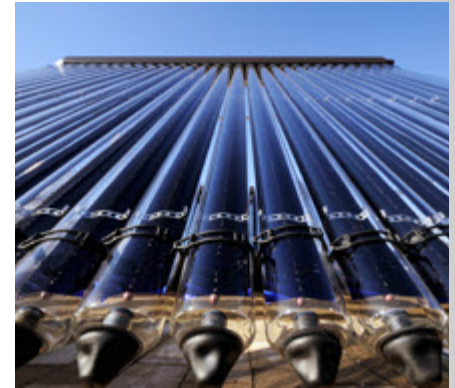


## Part L Pre-Contract Reporting

Our Part L Pre-Contract Reporting service is becoming one of our most popular service lines. Without performing detailed energy calculations via SBEM or dynamic simulation software, it is almost impossible to understand exactly what will be required to meet a building's Target Emission Rate (TER) under Part L: Conservation of Fuel and Power of UK Building Regulations 2010. This will become even more difficult to predict from October 2013 when targets are to be reduced by up to 20% depending on building type. Furthermore, almost all local authorities are now including at least a 10% renewables obligation to be demonstrated at planning stage, our report can be adapted to include the necessary calculations to show compliance with their requirements, giving our reporting a dual purpose.



By providing detailed calculations to Contractors at Tender Stage, the Tender returns are more likely to be received with fewer discrepancies, therefore reducing price risk to the client.

Here are just a few things that will play a major part in determining whether the Target Emission Rate (TER) is achieved and compliance is met.

- ÿ The Building Specification: Poor U-values will increase heat loss and gain and have a significant effect on required mechanical efficiencies in order to meet compliance.
- ÿ Building Design & Orientation: Glazing specification and percentage will effect heating and cooling loads. High g-values of glazing will increase the BER for air-conditioned buildings.
- ÿ Building Type: Buildings which have a large hot water demand such as care homes, hotels, leisure facilities or anything with changing/shower areas will usually need solar thermal or a heat pump under Part L 2010 to meet compliance.
- ÿ Lighting Design: It is hugely important that lighting design is considered early to understand its impact on the BER. Always aim for 55 luminaire lumens / circuit watt to all areas including core. LED lighting solutions should achieve this even for basic core fittings. Always consider the use of photocell switches where feasible.
- ÿ Efficiency of all Mechanical Plant: Specific Fan Power, Coefficient of Performance, Energy Efficiency Ratio and DHW heat loss all play a significant part.
- ÿ Are Renewable Technologies required?: The answer by 2013 is likely to be yes, at this point in time the answer is definitely maybe! The risk is therefore high.

For further information please do give us a call or email: [enquiries@L2energy.co.uk](mailto:enquiries@L2energy.co.uk)