

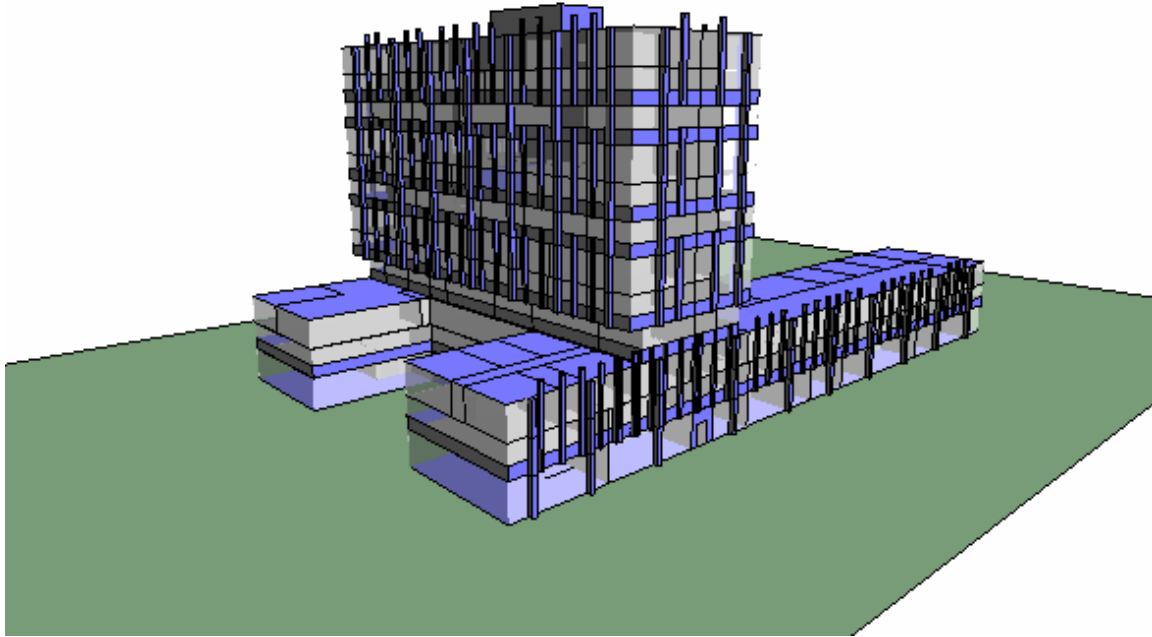


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Dynamic Simulation Modelling

DSM uses dynamic thermal simulation modelling to show Part L Compliance and generate a BER certificate. It uses real site weather data and simulates at hourly intervals throughout the entire year.

By analysing the energy performance at hourly intervals as opposed to the monthly average calculated by SBEM, the results of DSM analysis are commonly more accurate and allow the modelling of buildings which have sophisticated features that vary non-linearly, such as:

- Night ventilation strategies
- Ventilation with enhanced thermal coupling to structure
- Demand-controlled ventilation
- Automatic blind control
- Variable speed pumping
- Light transfer between highly glazed internal spaces such as atria or light wells

Both SBEM and DSM are compliance procedures and due to the standardisation of data specified in the National Calculation Methodology, are not true representations of the energy consumption of your real building. Building Services Engineering Limited use appropriate modelling tools for design and certification purposes.