



technical business solutions

Dynamic Simulation Modelling - Energy Performance Certificates

What is Dynamic Simulation Modelling (DSM)?

Dynamic Simulation Modelling (DSM) models energy inputs and outputs over time in relation to hourly weather data. It enables 3D models of buildings to be created and runs DSM calculations to assess a building's energy performance and the thermal comfort of the indoor environment.

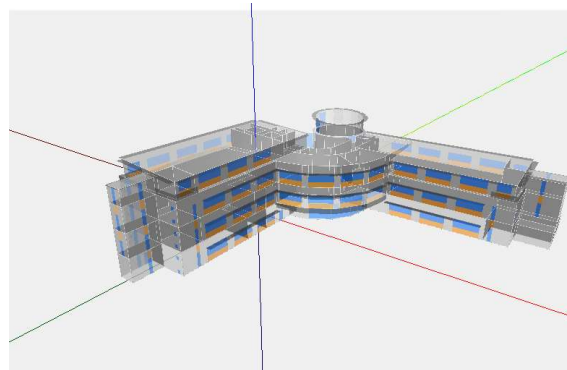
The calculations take into account detailed information about the building fabric and services, as well as user defined occupancy levels and time schedules.

Why use DSM?

In view of the Minimum Energy Performance Standards (MEPS) Regulations, the accuracy of an Energy Performance Certificate (EPC) rating in commercial properties has become business critical. A poor rating may well result in a property becoming unattractive to potential occupiers or purchasers.

It is widely accepted that the Simplified Building Energy Model (SBEM), used to produce standard Energy Performance Certificate ratings, is not sophisticated enough to provide the most accurate assessment of a building's energy efficiency. Using DSM is a much more accurate way of assessing a building's energy efficiency.

DSM is the most accurate way of carrying out predictive modelling for both energy management initiatives and improvements in EPC ratings, before committing to significant investment.



How can TBS Help?

TBS undertakes Dynamic Simulation Modelling using IES VE-DSM software, providing its clients with the most accurate assessment of their building's energy efficiency. IES's VE-DSM software is the leading accredited DSM route to UK compliance

Other Services

- Display Energy Certificates
- Air Conditioning Energy Assessments
- Building Log Book (Part L)
- SBEM and Part L Compliance
- Energy Metering Strategies
- Dynamic Simulation Modelling (DSM)
- Building Services Specifications
- Renewable Energy Feasibility Studies
- ESOS and ISO 50001

For more information: www.technicalbusiness.co.uk