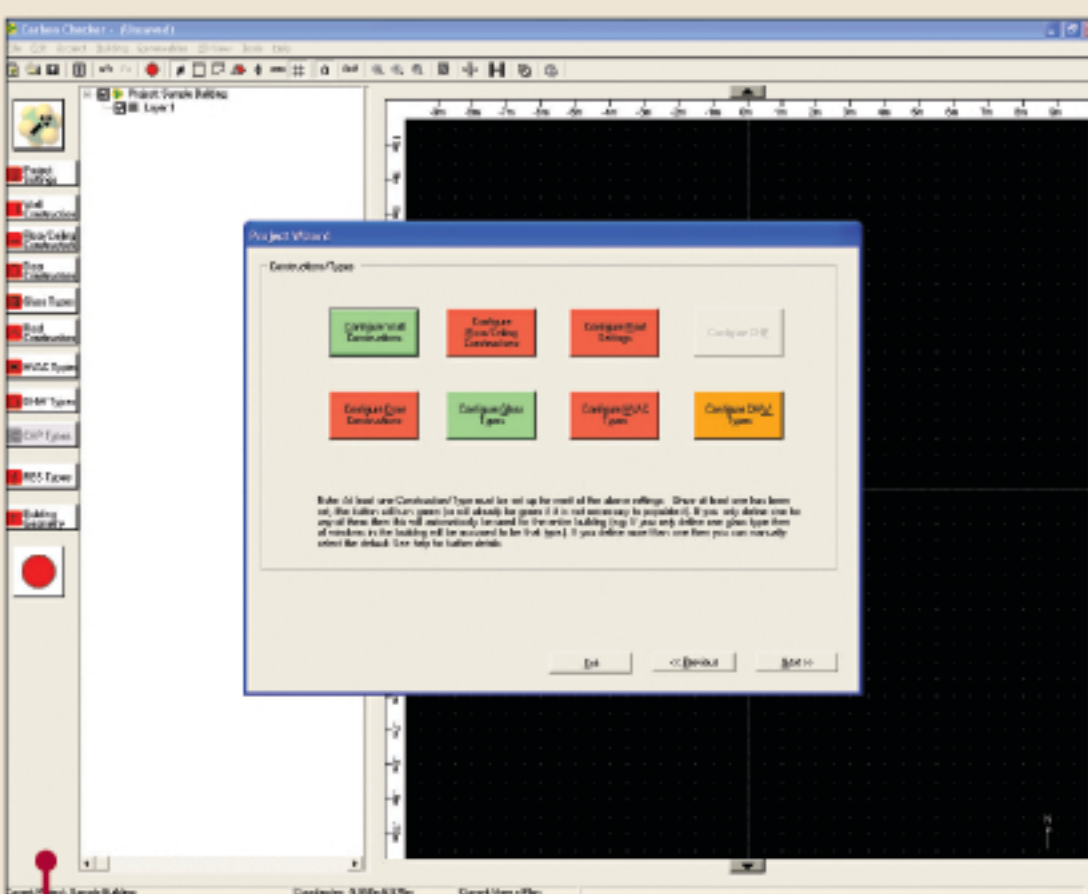
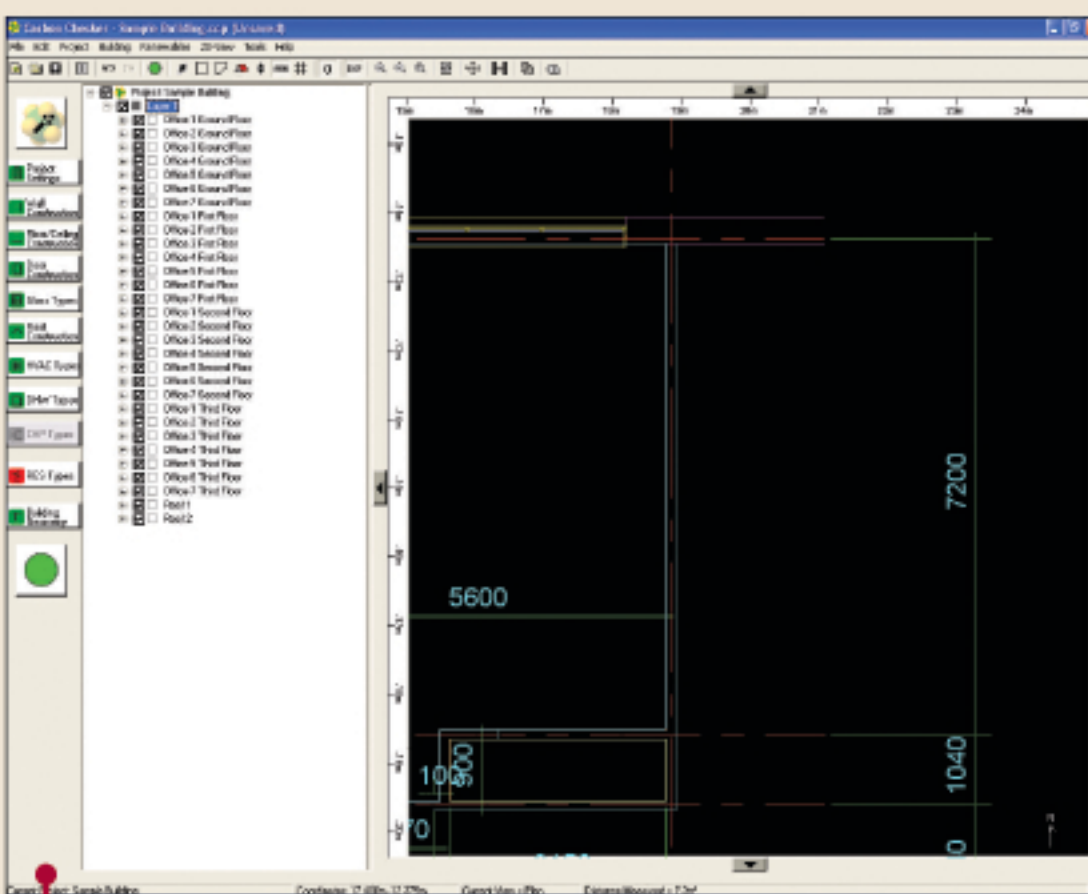


# 10 steps to Part L2A compliance

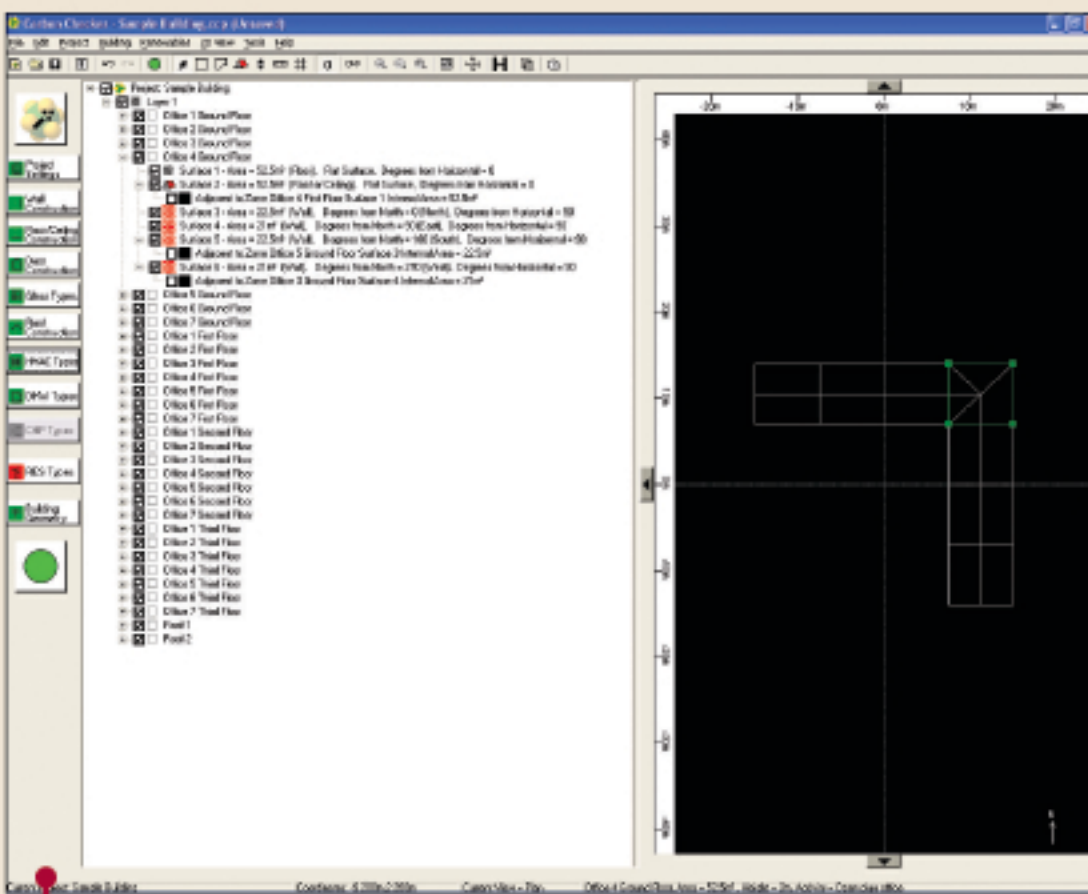


**1** To create a project, first-timers are encouraged to use the project wizard, which guides you through the initial settings (eg project details; construction; glazing, HVAC, DHW and CHP settings etc). It's a simple way to enter the minimum settings required for a valid SBEM

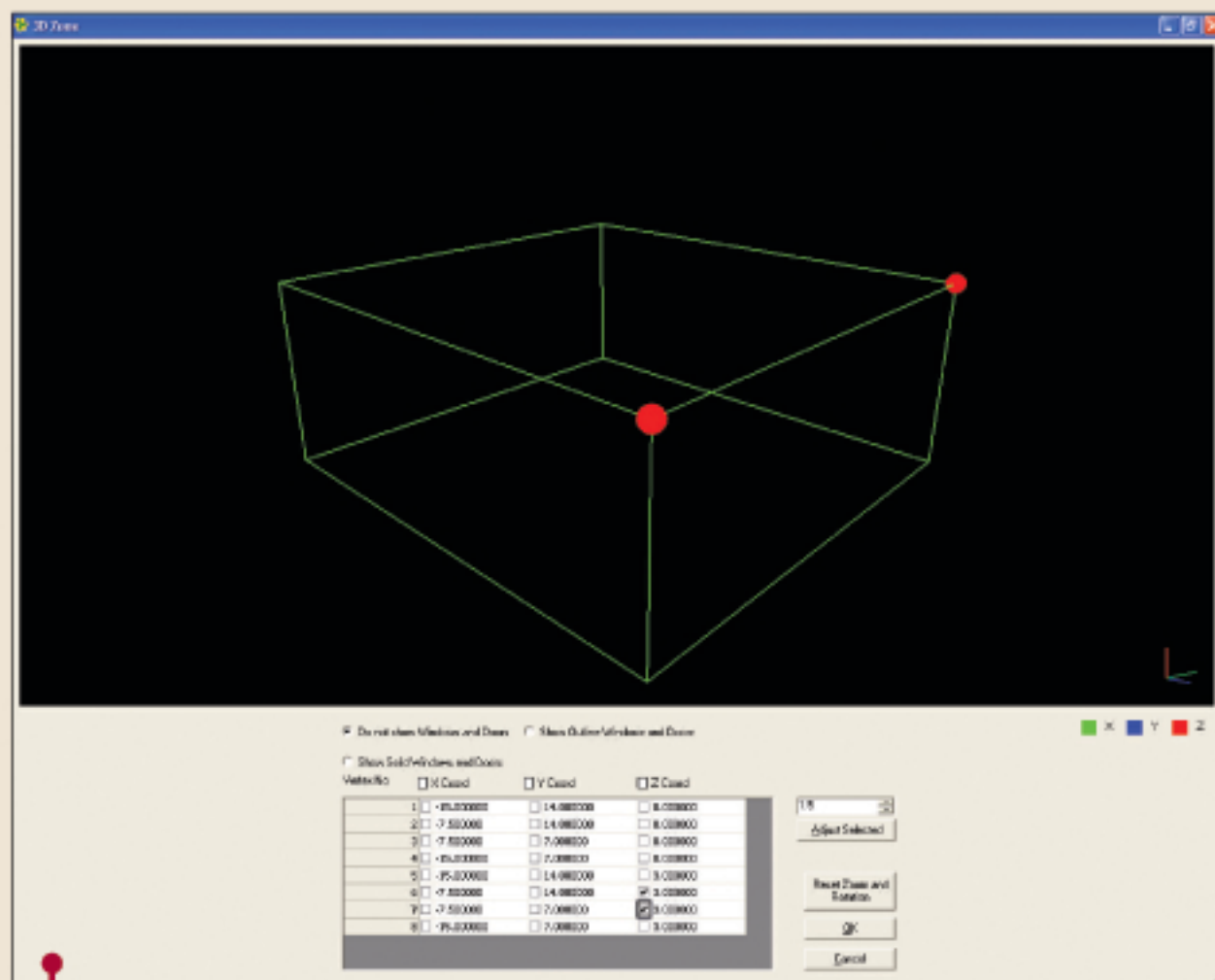
**2** The buttons to the left of the screen indicate what needs to be addressed before the calculation can be performed, turning from red to green once the necessary information has been



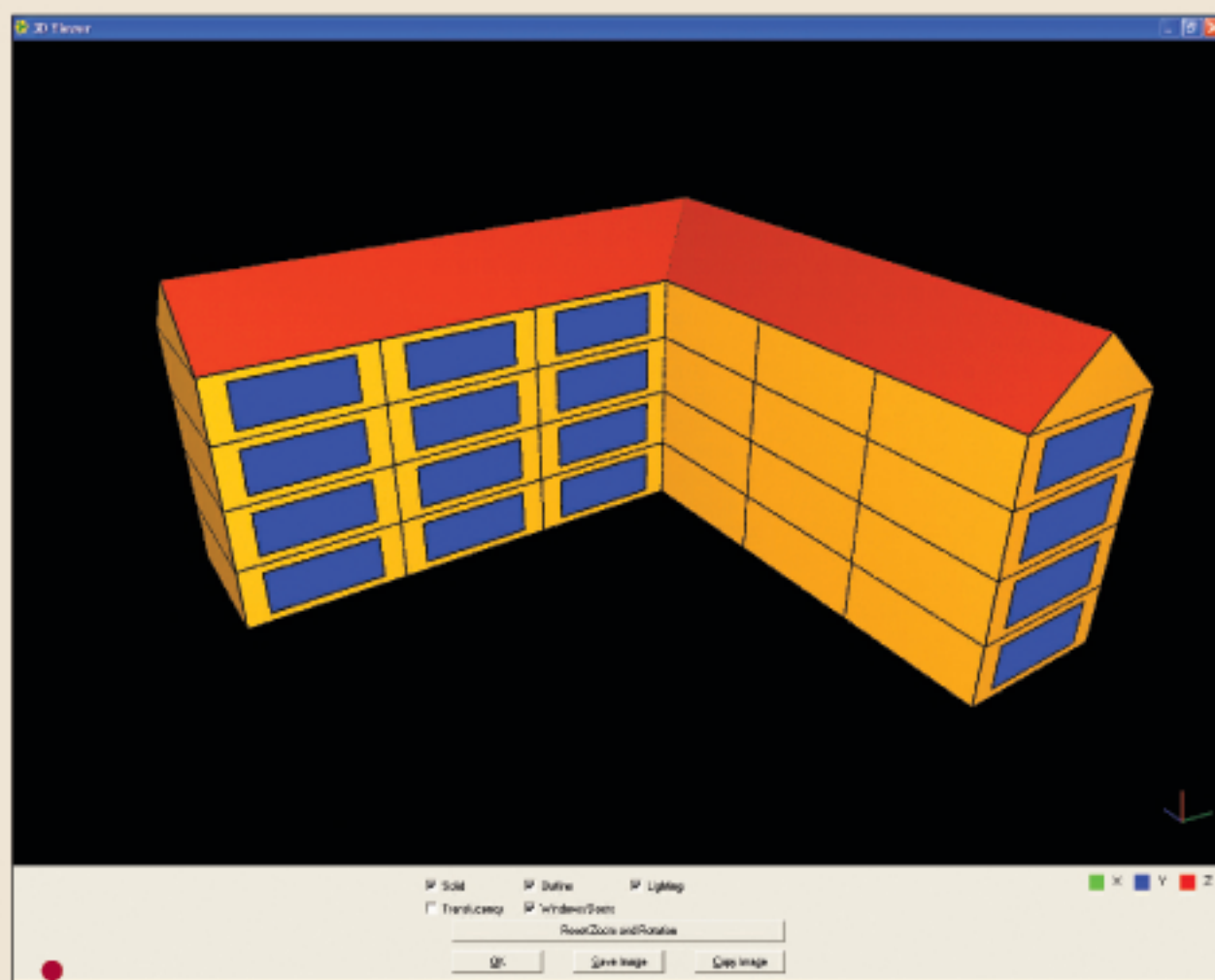
**3** A DXF file (easily created in CAD packages eg AutoCAD) can be imported into Carbon Checker to allow tracing over for quick creation



**4** Once the building zones are identified by space type and activity, the geometry can be defined. A 2D design interface is used initially to create the building model. The model above has been built up by creating a zone and then copying and pasting to create identical office



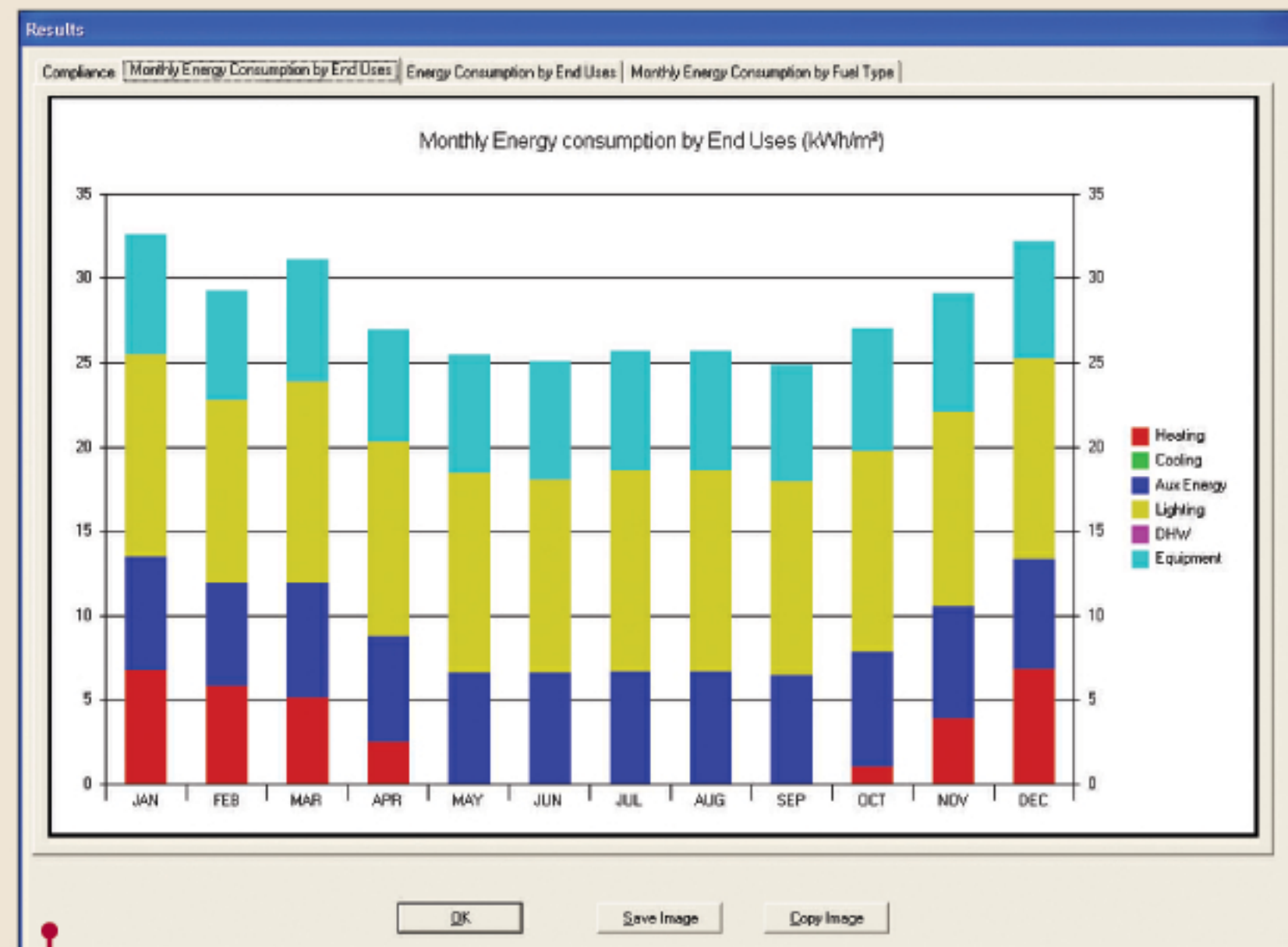
**5** The geometry for each zone can then be adapted in a 3D editor. This can be used to perform elaborate editing and the generation of complex geometries. Finally, the whole building can be viewed within a 3D viewer to ensure that it looks correct. Images can also be taken from this viewer for presentation in reports.



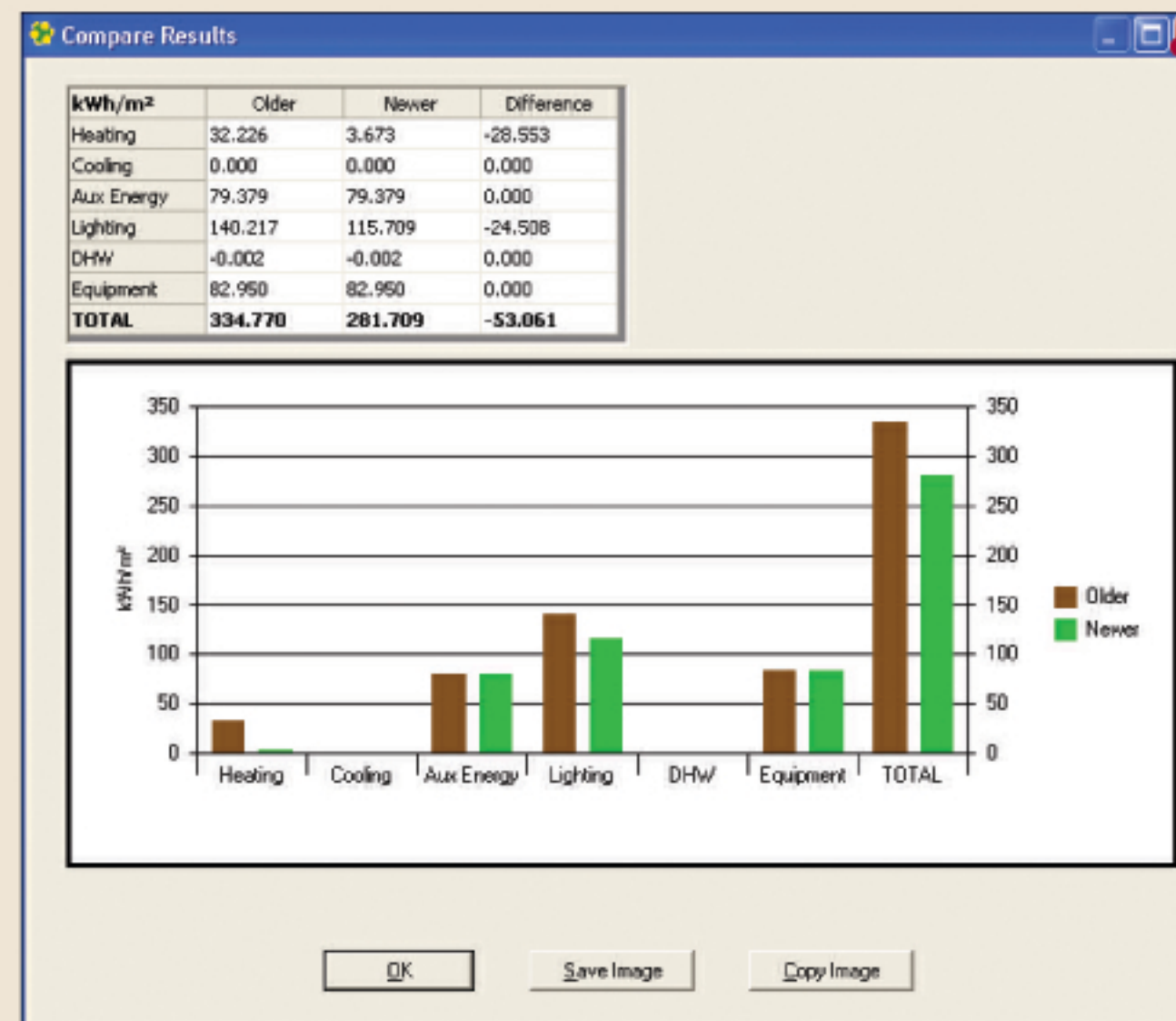
**6** The next step is to add windows and doors to the zones. To do this, a simple 2D surface editor is provided. To help the user assess the impact of different glazing options, the size of windows can be increased or decreased globally for each orientation, eg 50% glazing can be added to all southern aspect walls.

**7** An adjacency calculation is then performed by Carbon Checker to determine those zones which are next to each other and zone surfaces that are adjacent to the external environment. This data is vital for the SBEM calculation and is performed automatically. A significant time saving is made here over the processes required to build an iSBEM model.

**8** The building services (HVAC, lighting and controls) then need to be applied to each of the zones constructed (see earlier 2D interface image). Again, the wizard helps the user to ensure that all model requirements are met before the SBEM calculation



**9** When all the required data is available the SBEM button turns green and the calculation can be performed. The BER and TER are calculated together with the official Part L2 compliance checking module, BRUKL. This reveals whether the building has passed the compliance checks and also provides detailed energy performance reports.



**10** If the building fails to comply, the user must change either the building geometry or services. Any number of alterations can be made and run through, and all results are presented in the output viewer so that the most technically feasible and economic route to compliance



**M&E**  
The Building Services Event  
10-11 October 2006 Olympia, London

## M&E The Building Services Event

Version 1 of Carbon Checker will be released on 9 October 2006 and Southfacing Services will be showcasing it at M&E The Building Services Event. The software will cost £450 for an annual license with a 30% discount for anyone who signs up before the Version 1 release date (9 October 2006) and a 20% discount available after the release until 31 December 2006. There will also be site and academic licenses available at a reduced rate.

M&E The Building Services Event will take place on 10-11 October 2006 at London's Olympia. To make a visit to the show even more worthwhile, this year the M&E is being co-located with five exhibitions to create the ultimate show for the anybody working in the built environment. Alongside M&E The Building Services Event there will be Sustainable Energy and Energy Efficiency Expo, AMP Power Expo, Total Workplace Management and office fit-out show Context.