Eco projects at Ruislip synagogue

Insulation

The building is single storey with a flat roof and poor insulation. We calculated that a large proportion of the heat loss was through the ceiling, so we installed a lower ceiling, and insulated the void between the old and new ceilings. We also replaced all the windows with double glazed units. It was not economical to insulate the walls.

Heating

The inefficient electric storage heaters were replaced a gas boiler and radiators some time ago. Later, we replaced the boiler by a condensing type, having efficiency of about 95%.

There are two heating zones controlled independently – one for a limited area used during office hours, the other for the main hall. Each has its own 7-day timer that is programmed a week in advance to suit forthcoming activities.

The main hall is used mainly at weekends, and a normal system would need to start many hours in advance to reach temperature. The boiler and radiators were therefore selected to provide 20% over-capacity at -5 °C outside, for fast heating.

Lighting

Initially we replaced 30 candle bulbs 40 W each by 5 W LED bulbs, reducing consumption from 1200W to 150W. Later we replaced 10 large fluorescent lights of 100 - 120 W each by 60W LED units, saving another 400W.We have at least the same level of lighting as previously.

Disposable utensils

Disposable Kiddush utensils have recently been replaced by standard ones, which are washed in a dishwasher after shabbat.