



## Case Study - Energy Conservation

**School Energy Strategy** - The objective was to discuss, review conservation technology, insulation materials and equipment to assess their effectiveness. In parallel with an evaluation of current priorities for building maintenance, subsequently report to the Governing body the options for the comparative investment costs and payback periods, incorporated into Master plan.

The core team reviewed all the services costs and scheduled into spread sheets to automate input options to demonstrate potential savings from new technology and direct building insulation combined with cost for supply and installation.

Based on the energy studies the school implemented programmes to review gas, electrical services equipment upgrade or replacement , some recommended items have been implemented, but financial restrictions keep others on the list for action, these items include :-

- Ongoing programme of roof and wall insulation to the general building fabric.
- Upgrade of boilers and future replacement with pumps, controls and water distribution pipe work.
- Installation of energy efficient gas optimisation valves.
- Replacement LED or compact fluorescent light fittings and control systems.
- Roof mounted Photovoltaic panels for generation of electricity to national grid.

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