



Downside Junior and Downside Infant School

Market Sector - Education

Geographic Sector - Luton, Bedfordshire

Project details

The school has recently renewed its ventilation system and now benefits from a variety of economical and environmental advantages.

Downside primary School is a two storey building incorporating various halls and assembly areas and is therefore particularly suitable for the Solarstore Natural Ventilation solution.

This method of ventilation has numerous cost-saving and environmental advantages.

Project overview

A natural ventilation solution was selected to ventilate the building. The GDL Solarstore solution was identified as the most suitable option to provide continuous fresh air throughout the classrooms, assembly hall and gymnasium, whilst maintaining low energy consumption and operating costs. The school requires 'night purge' or evening ventilation in the assembly areas for concerts, plays and sports events, usually solar powered systems are unable to do so. Our unique Solarstore solution permits the DC battery to run the dual fan system allowing 24 hour ventilation, giving increased ventilation during the evening when required.



Benefits of using GDL Products to the project

- Low energy consumption as we harness both wind and solar power to ventilate the building.
- Our system allows 'night purge'.
- Low operating costs and maintenance costs
- Replacement of stale air eliminates 'sick building' syndrome as found in mechanically ventilated buildings.

GDL products used on this project: Solar powered Turrets were provided inclusive of photovoltaic cells. GDL also supplied the internal supply and extract ventilation grilles throughout the school.