



Case Study

Desktop Virtualisation & 'Green' IT Infrastructure

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With the go ahead for their new premises, **Immaculate Conception Catholic Primary School** needed a cost-effective and reliable way of reducing IT costs, increase efficiency and improving the overall learning experience at the school.



- Who:** Immaculate Conception
Where: Spinkhill, Sheffield
Why: New Premises needed new 'Green' IT solution
Kit: Greenhive GH30 with Ncomputing Vspace software
Ref: ImmacuGreenH.rev2

School Overview

Immaculate Conception Catholic Primary School is a Church aided school in the Diocese of Hallam and is maintained by Derbyshire LA. This means that the members of the Parish and the Diocese of Hallam have contributed towards the cost of building the school and continue to care for its buildings and its people. The school provides distinctive Christ centred Catholic education for children aged 4+ to 11+ years, with priority being given to children who live and worship within the parishes of Spinkhill and Clowne.



“The service from Systems Assurance was 1st class. The entire solution was in, working and completed within the deadline and exactly to our spec.”

Mary Emmott, Head Teacher, Immaculate Conception Catholic Primary School

Case Study Brief

Requirement Overview

Like other head teachers, Mary Emmott's job is to reduce costs, increase efficiencies and improve overall quality of learning at the school.

With a move-in date looming and a requirement for a cost effective, 'green' IT solution with full compatibility to their existing IT infrastructure, Mary decided to take the advice of Systems Assurance and procure a VeryPC Greenhive solution together with industry leading HP servers and Symantec recovery software for resilience.

Like many other schools, Immaculate Conception Primary School considered the purchase of standard PC systems. However with typical PCs consuming as much as 84 watts of power, they needed something a little more environmentally friendly. Of course there are energy efficient desktops available consuming as little as 27W, but these come at a higher initial cost.

Mary Emmott decided to procure a VeryPC GreenHive solution from Systems Assurance as it offered performance near to that of individual regular PC systems, but at significantly reduced initial cost and power consumption of 5W per user.

The Requirements

- Cost effective solution for 48 pupils & 8 teachers
- Seamless integration with existing AV systems.
- Minimal infrastructure requirements
- Reliable and adaptable to keep pace with future demands
- Remain focussed on efficiency whilst favouring the 'greener' solution.

The Technology

- HP Proliant DL 360 G5 Server
- HP StorageWorks Ultrium 448 Internal Drive
- VeryPC GreenHive V2 GH30 6 user Systems
- Linksys 24-Port 10/100/1000 Gigabit
- Symantec Backup Exec V12.5
- Ms Windows Server Standard 2008

The Benefits

- Centralised control of entire network
- Energy Efficient Solution
- Low maintenance 'Child' proof client PCs.
- Seamless integration with existing AV solution.
- Improved reliability and manageability.
- Significant powers savings at least £3200pa, when you include support and maintenance the savings are well over £5000 per annum.

Systems' Solution

Systems Assurance' engineers worked closely with the schools existing IT people, external contractors and teaching staff to explore various options whilst taking into account all their concerns.

Immaculate had been given a move-in date and needed a cost effective, 'green', reliable IT system configured, installed, tested and working on schedule.

After considerable analysis an HP Proliant DL360 server running Ms Windows 2008 software was used for the systems management with Symantec Backup Exec for the backup solutions. Symantec System recovery was used for resilience and connectivity supplied by two D-Link Gigabit switches together with CAT5 patch cabling. All existing education software was transferred to the HP Proliant server off site (over 25 software packages) prior to delivery.

We used VeryPC's Greenhive GH30 shared computing server for the 48 client PCs. Using high efficiencies of VeryPC's EPM™ technology and Ncomputing VSpace software to share that computing power with multiple users for a power consumption of 56W. This solution offers an estimated 60% less per seat than traditional PC solutions.

Dell Optiplex 360 mini towers were used for the teacher PCs with connectivity to their existing Smartboards & projectors all configured by Systems Assurance.