

WELLS CATHEDRAL SCHOOL & CEDARS HALL



PROJECT

Site & plant: Campus with mixed property portfolio including listed buildings, >50 properties including teaching, concert hall, catering sports and accommodation. Range of plant including: BMS systems, HVAC, GSHP, PV, Solar thermal, refrigeration.

Objectives: Reduce energy use & spend across portfolio, specifically Cedars Hall (newly built). Reduce CO2 - a major student concern. Fulfill ESOS energy reporting obligations and assess potential for electrification of transport & maintenance fleet.

Challenges: A lack of energy data in high cost buildings & age, listing & diversity of property portfolio



GRIDIMP SERVICES

Installation of impHub into existing BMS systems, real time energy data to our cloud services/dashboards. Also, impHubs automate DSR control of HVAC systems in response to peak pricing. Completion of ESOS reporting. Defining and assisting in student & staff energy engagement program to promote positive change.

THE BENEFITS

Visibility of energy data by asset type: Dashboards on energy use & cost allowed for:

Metering corrections: Identified incorrect meter scaling, corrections allowed for accurate reporting & analysis.

System optimisation: 20 % Saving on Heat Pump running costs: Achieved by controlling run times.

£10k refund from bill reconciliation: Data highlighted inaccuracy in billing, resulting in supplier refund.

Automated load shifting: Fully automated control of HVAC through the impHub, ensuring minimal use during peak charging periods, reducing energy costs & gaining DSR revenue.

Reduced Co2 Emissions: Lower energy consumption during peak demand, reducing reliance on carbon intensive peaking plant. Energy procurement from renewable/low carbon suppliers.

£40,000 saving on energy procurement: Greater knowledge of energy usage allowed gridImp to assist in the procurement of a new energy supplier

Investment planning: Analysis to support investment decisions including: EV charging, electrification of transport fleet, heating systems maintenance and lighting replacement programme.
