

# HISTORIC SCHOOL MASTERS ITS BUILDING ENVIRONMENT

IPSWICH HIGH SCHOOL CASE STUDY



**TREND**



# Carbon Numbers integrated a customised Trend solution to help the prestigious venue enhance the comfort and control of its facilities

Ipswich High School is set in an idyllic 87-acre campus on the banks of the River Orwell. Built in 1776, the main building, Woolverstone Hall, is a magnificent Grade I listed mansion with beautiful grounds and world-class sporting facilities. This makes it a sought-after venue for conferences, weddings, theatrical and sporting events. With an increasing number of commercial bookings and the challenges of managing a historic building, the school needed to modernise its Building Energy Management System (BEMS) to enable its evolving business model.

## THE CHALLENGE

### Improving comfort with enhanced BEMS

Woolverstone Hall had a dispersed heating network with no remote controls, minimal metering and zero visibility beyond local plant rooms. This gave the estate's management team negligible oversight or control of the building environment, subjecting it to potential heating outages and impacting the comfort of all users.

To address these challenges, the school commissioned energy intelligence specialist and Trend Technology Partner, Carbon Numbers, to integrate its BEMS systems and install smart solutions to improve comfort, visibility and control over energy consumption.

## THE SOLUTION

### Integrated controls deliver visibility and energy savings

*"Historic stone buildings can be a challenge for BEMS installers, but the Trend technology offers the benefit of full backwards compatibility, ease of engineering and a range of solutions which are optimised to deliver tangible energy savings,"*

NEIL FRIGHT, CARBON NUMBERS' CEO

Over a period of 18 months, Carbon Numbers installed an integrated controls solution, built around the Trend IQVISION system. The interface's real-time dashboards provide a dynamic view of live performance data, identifying areas for energy savings. This was supplemented with bespoke graphics and panels, as well as sub metering, allowing the school to measure the consumption of a particular area or device.

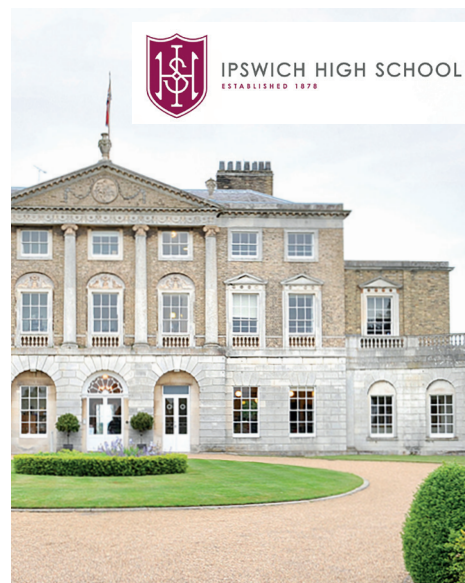
Finally, the school's lighting system was upgraded with Honeywell's Ex-Or lighting controls and new LED light fittings, enabling the team to monitor occupancy within rooms and adjust lighting accordingly.

## A STEP TOWARDS NET ZERO

Carbon Numbers' use of customised Trend solutions gives the school better control over its energy use and BEMS to significantly improve comfort levels and reliability, as well as reduce energy consumption.

*"The fact that the Trend IQVISION system is hosted on Carbon Numbers' Carbon Cloud platform has given us a level of access and support that simply wasn't available before,"*

DARREN WRIGHT, TECHNICAL DIRECTOR, IPSWICH HIGH SCHOOL



*"Our students, staff and commercial guests are already enjoying the benefits in terms of significantly improved comfort, not to mention the data we now have to help map our journey to net zero carbon emissions."*

DARREN WRIGHT, TECHNICAL DIRECTOR, IPSWICH HIGH SCHOOL

For further information on this project, please contact Neil Fright at Carbon Numbers (neil.fright@carbonnumbers.co.uk, 01206 263390) or the Marketing team at Trend (casey.wells@trendcontrols.com).

## ABOUT TREND CONTROL SYSTEMS

With a worldwide distribution and support network covering more than 50 countries, Trend Control Systems is a major international supplier of building energy management solutions (BEMS). The majority of Trend's control systems are supplied, engineered and commissioned by approved systems integrators. Trend Control Systems is part of Honeywell Building Technologies. Learn more [HERE](#).