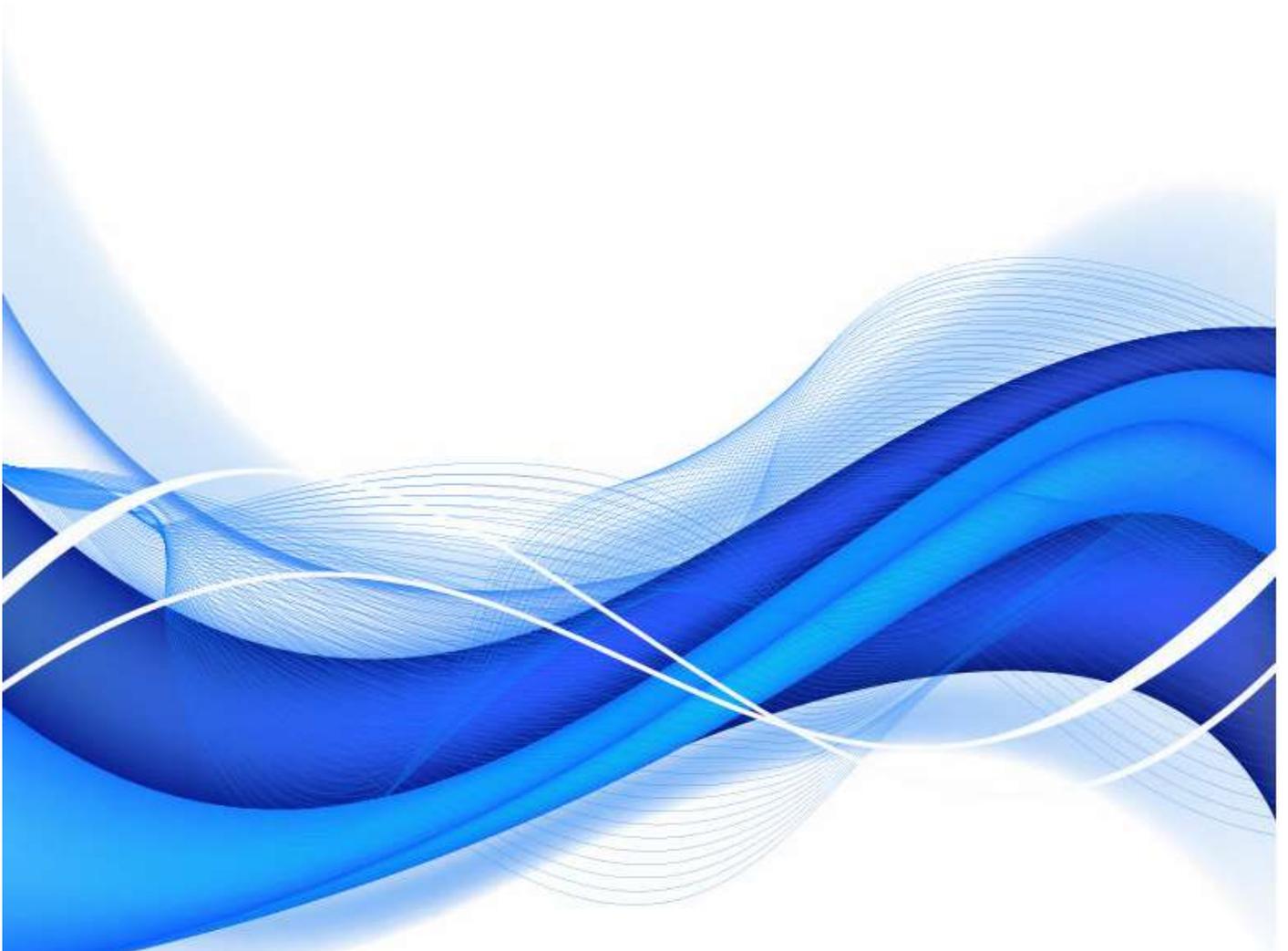


BMS Controls
Energy Management
Integration
Remote Monitoring

TRI

Control Systems Ltd



HOTEL PROJECT

A new hotel in London required a complex building and energy management system to deliver on its eco-friendly promises.

A new hotel being built to a very high standard and demanding an equally high quality environmental control system and energy management system presented a challenging project for TRI Control Systems recently.

The building had been designed to achieve a BREEAM rating of excellent and to provide savings in the generation of CO₂ of over 40% over the building regulations Part L 2006 requirements, so a number of energy saving technologies have been employed to make the building as energy efficient as possible, taking into account the specific requirements of a hotel and its restaurants.

As a Trend Technology Centre TRI Control Systems decided to install a full Trend BEMS (Building Energy Management System) including the Trend 963 Supervisor software and used this to control all the environmental conditioning plant including the energy efficiency focused equipment.

This includes a CHP (Combined Heat and Power) unit that provides a large part of the buildings base load heat requirement and generates a sizeable portion of the electrical load the hotel requires. The Trend system also manages the backup boilers that have been installed to provide additional heating when required.



BREEAM 'Excellent'

This high end hotel in central London employed various technologies, including a state of the art building management system installed by TRI Control Systems, to reduce its carbon footprint.

All the pumps and fans within the building were fitted with variable speed drives to help minimise energy consumption and we chose to install inverters that can be monitored remotely over a data network, so that we could log the energy usage of all the different items of plant.

The data from all these devices is read by an energy management system that provides easy access to comparisons between the different major energy consumption areas within the building, such as the kitchens or the guest bedrooms. This system is being used to target specific areas of the building to ensure the energy usage is within acceptable limits, which also helps to make sure energy costs are kept to a minimum.

This combination of energy and building management software and hardware solutions, delivered by TRI Control Systems team of Trend Experts, has been key to the success of this project.



Energy management dashboard by Synapsys Solutions

TREND CONTROLS

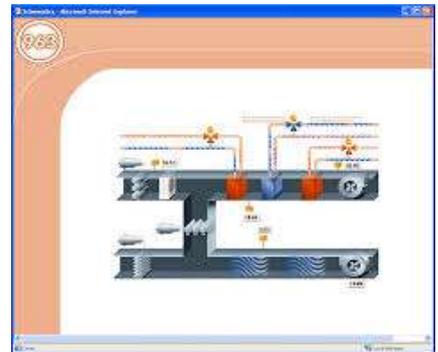
Trend is a major international supplier of building energy management systems (BEMS) with a worldwide distribution and support network covering over 50 countries.



As a Trend Technology Centre TRI have access to the full range of Trend Controls, including the 963 supervisor and IQ4 controllers.



963 is a graphical, real-time, user interface for the building control system. It enables the user to monitor plant or building services, and make changes to the way the building is controlled from a graphical display. The security system ensures that the user is only presented with information and functions that are relevant to their authority or task. It is compatible with the Trend Open Protocol Server (TOPS) which allows values from supported 3rd party systems e.g. BACnet to be included in schematic pages, adjustments to be made, and alarms received.



Please contact us on 01895 257500 for information on Trend Controls Systems

SYNAPSYS SOLUTIONS



Synapsys Solutions provide integration controllers for BMS systems and an innovative range of energy monitoring systems.

TRI Control Systems can provide the full range of integration and energy monitoring systems that Synapsys offer.



SIPe Energy Monitoring, Targeting & Display

SIPe is the energy variant of the successful and established range of SIP interface devices and works on the same principals, delivering a simple but effective solution to meet your exact requirements.

SIPe provides you with live data about your energy consumption and allows The system benefits from the intuitive control and configuration features from our established SIP BMS Interface product range.



Please contact us on 01895 257500 for information on Synapsys Solutions energy systems



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