

Energy Management & Carbon Dashboard

Design and installation of an innovative campus-wide energy management solution that saves money and supports compliance

HETHEL ENGINEERING CENTRE

ITM Communications is an independent specialist provider of cost effective and energy efficient ICT infrastructure services and solutions to the corporate, financial, government, defence, healthcare, construction, systems integrator and outsourcer markets in the UK, Europe and Middle East.

The Challenge

Hethel Engineering Centre (“HEC”) is a business dedicated to supporting the growth and success of high performance engineering and manufacturing companies and individuals throughout the Norfolk region. HEC is passionate about high performance engineering and manufacturing organisations and their future development and prosperity.

It is a premium service provider in all that it does, with a focus on delivering an exceptional customer experience. With planned expansion of the centre a need was identified to pro-actively manage the energy consumption across the entire estate and a partner was sought to design a flexible solution that could be tailored to meet requirements.

HEC is pleased to offer its conference facilities to interested parties, please visit www.hethelcentre.co.uk for further details or watch a promotional video at <http://www.hethelcentre.com/about/hec-promo---tenants.php>

The Solution

Working closely with key personnel at Hethel Engineering Centre, ITM proposed an innovative “Carbon Dashboard” solution to present key energy consumption and carbon emission data from across the Hethel site. This data is then displayed in a user friendly format to inform stakeholders of the real time performance of each building on the site as well as providing a feature rich analysis tool to Facilities Management to enable them to proactively reduce the total energy consumption and thus save money.

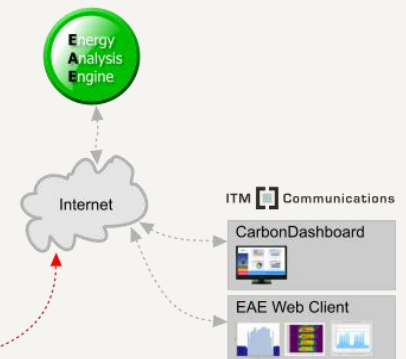
Using existing infrastructure where possible, ITM managed the entire installation, setup and aftercare process, including:

- Integration with existing building control system, lighting network and other main utility meters
- Installation and commissioning of additional sub-meters and sensors
- Installation and set up of the Energy Analysis Engine including system training
- Configuration of the Carbon Dashboard software to display key energy information
- CRC Energy Efficiency Scheme compliance advice

ITM  Communications
IP based monitoring network



Hosted Web Service



Advantages & Benefits

Following the implementation of the Carbon Dashboard, HEC can now visualise;

- Data per sq metre of building, divided into sub-let areas
- Analysis by services such as lighting, heating, air handling or cooling
- Detailed graphs of current levels vs. last year vs. last month with indications of any improvements
- Comparisons against the best practice benchmark for high performance buildings
- Total demand, peak demand and average demand over time
- Output of energy consumption data in a ready format to support compliance with the UK Government's CRC Energy Efficiency Scheme

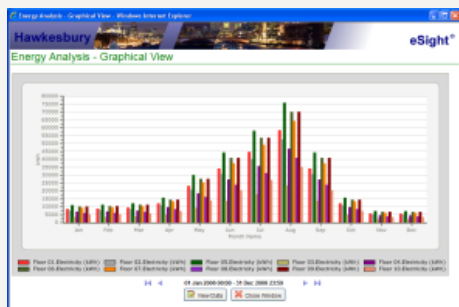
HEC now has total control over its energy consumption and:

- Provides accurate billing to each of the 26 tenants on the Hethel site
- Can measure and significantly lower energy consumption, carbon emissions and operating costs
- Support critical compliance with regulations on energy performance and the CRC Energy Efficiency Scheme (CRC)
- Has enhanced its Corporate Social Responsibility (CSR) to all stakeholders whilst saving money
- Can realise potential cash flow advantages through Enhanced Capital Allowances (ECA) on certain equipment

Sally Harradence – HEC Centre Manager

“As a leading force in the move to clean technology HEC is pleased to be working with ITM Communications to raise awareness in the importance of effective energy management. Rising energy costs and carbon production concerns are increasingly dominating business agendas and the Centre is no exception. The Carbon Dashboard has allowed the Centre for the first time to view our energy consumption in a manner where action can be taken to directly reduce costs. It has given the Centre control of it's energy needs, firstly by highlighting anomalies in the usage recorded and then being able to drill down to identify the area and type of service that is the root cause of that demand and, where appropriate, take corrective action.

The Centre provides incubation units for a number of advanced engineering companies and by continually providing a visual image of where energy is being used, with a direct comparison to other units on site, it has stimulated discussions between tenants and spread ideas on how to reduce energy consumption. The Carbon Dashboard not only drives down costs but helps us to run an identifiably carbon efficient building.”



By adopting a flexible approach to client requirements, ITM applies best of breed technology, in-house expertise and innovation, to deliver compliant solutions and services that offer value for money and achieve industry best practice.

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