



“To optimise the control of the lighting, half-hourly occupancy data, collected as part of the (digitalenergy®) energy monitoring system, is compared to the energy consumption recorded by the lighting sub meters. Occupancy profiles are matched to the operation of the lighting control system and the identification of opportunities to further enhance energy efficiency.”

Bruno Gardner  
 Managing Director  
 Low Carbon Workplace Ltd

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**How did the Low Carbon Workplace break the ‘circle of inertia’ that has prevented many cost effective carbon reduction opportunities in non-domestic buildings from being realised?**

Low carbon refurbishment is an essential element in building a sustainable city.

The main requirement for LCW was the provision of a metering and monitoring system with an integrated carbon and occupancy monitoring solution.

**What was Achieved Through the use of the digitalenergy® Energy Management System?**

- Emissions of just 1.62 tCO<sup>2</sup> per person representing a 33% reduction in tCO<sup>2</sup> per person in year 2 of occupation compared to year 1
- A reduction in the annual carbon footprint by 1.4% despite an increase by 46% in the number of hours that the office is occupied
- 45% lower running costs when compared to similar buildings

Applications Implemented

- Project Management
- Occupancy Monitoring
- Data collection and transmission
- Custom Reporting
- Visual display screens
- Metering and Monitoring

**Customer Benefits**

An extensive occupancy metering and monitoring approach through engagement with digitalenergy® has provided LCW with :

- Integration of occupancy data
- Specific reporting requirements
- Capture of data on building assets
- Project Management and Forecasting
- Audit trail and traceability
- Dashboard with integrated library

The approach taken by LCW is designed to encourage best practice in energy management and stakeholder engagement from building level, to management reporting at an enterprise level

About Low Carbon Workplace

Low Carbon Workplace is a partnership between the Carbon Trust, Columbia Threadneedle Investments and property developer Stanhope. Through the Low Carbon Workplace Fund, the partnership acquires commercial office buildings and refurbishes them



into modern, energy efficient workplaces, helping them to minimise their energy costs and carbon emissions.

The Carbon Trust has been presented with a Guardian Sustainable Business Award in recognition of its innovative and unique approach to reducing the carbon footprint of non-domestic buildings.

To date the Low Carbon Workplace Fund has raised over £140m and the portfolio currently comprises eight buildings in London; Premier House, Mount Pleasant, Grove House, Summit House, Mansel Court, Paul Street, Kew Road and Carter Lane

Operational Efficiency

A proven way to drive energy efficiency improvements is to raise awareness of the opportunities.

The operational accuracy can then be achieved by collating metered information from individual assets, buildings and sites to populate the critical reporting and evidence requirements of legislation whilst providing opportunities for energy reduction.

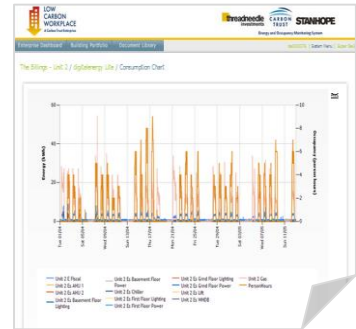


Low Carbon Workplace engaged digitalenergy in 2012 to fulfil their requirements for an integrated carbon and occupancy monitoring solution

The Low Carbon Workplace Partnership is committed to developing and managing high quality offices that are genuinely low carbon in use

Monitoring & Targeting

Using energy sub-meters and occupancy sensors LCW are able to compare it with occupancy levels. This helps to identify opportunities to reduce unnecessary energy consumption and optimise performance.



“The use of digitalenergy® ensures the maximum efficiency in the data collation process by reducing time and effort, removing duplication and making reports available on demand”

Steve Scoffham  
digitalenergy Ltd

Our mission is to empower positive change through greater intelligence in all organisations through the application of energy management software.

We believe that all organisations have the scope to be more sustainable in their operation, where ever they are within their life cycle. Let us share our expertise and call **0845 003 9087**

Contact our solutions team to find out how digitalenergy can put the applications in your hands.

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