Workspace Technology Limited

The Benefits of ecodesign™ & ecomeasure™

www.workspace-technology.com

Data Centre Solutions Expertly Engineered

ecodesign™

"Workspace Technology's commitment to help clients reduce their carbon footprint through the deployment of energy efficient technology and design"

It is widely recognised that with the trend for increased consumption by I.T hardware, data centres are increasingly becoming major contributors to carbon emissions within the UK economy.

Energy efficiency is imperative to environmental and IT economic productivity and can no longer be ignored. Slowing the growth rate of electric power use for servers and data centres is necessary to reduce the rate of growth of greenhouse gas emissions.

The intelligent application of EcoDesign™ solutions and services by Workspace Technology will deliver a measurable reduction in the power consumption for any data centre infrastructure.

EcoDesign™ is based on the implementation of a set of 'common sense' design principles which when deployed intelligently contribute significantly to the energy efficiency and performance of a data centre.

Principles of EcoDesign™	
Measurement	Without measurement it can be hard to understand why and where energy performance is poor and how it can be improved. It is a recommendation of the Carbon Trust that sub metering of high energy consumption infrastructure is implemented.
"Right Size" Architecture	Modular, scalable power and cooling architecture that allows deployment as needed. This is the crucial element for improving data centre efficiency.
Efficient Cooling Technology	The implementation of modern energy efficient cooling technologies reduce operational energy overhead. The configuration of A/C system set points more appropriate to modern computer technology, will have a surprising contribution to data centre energy savings.
Clear Segregated Airflow	Ensuring a clear airflow path whilst eliminating the mixing of hot and cold air through the deployment of appropriate ducting, aisle containment and airflow management technology will contribute to significant reductions in the energy demand of the cooling system.
Efficient Room Layout	An efficient room layout will facilitate the deployment of appropriate cooling, allow for a modular growth strategy and assist airflow separation. Correctly positioned grille tiles will ensure airflow to equipment inlet positions.
Efficient UPS & Electrical Installation	The installation of modern modular transformerless UPS technology significantly improves efficiency and also saves on floor space at typical operating loads. The installation of well designed power paths combined with energy efficient lighting reduces energy consumption.

EcoMeasure™ - Scalable Data Centre Energy Management & Efficiency Measurement Solution by Workspace Technology Ltd

EcoMeasure™ is a service which enables data centre and server room managers to accurately measure the performance and energy consumption of any data centre facility.

EcoMeasure™ can be installed in new or retrofitted within existing data centre and server room environments. The system provides Data Centre Managers with direct information on power and energy consumption and accurate benchmarking of energy efficiency.

Benefits of EcoMeasure™ Deployment

Metering the total energy used at a site is important, but it does not show how energy consumption is being used across an area or for a specific function e.g. a data centre facility. Without measurement it can be hard to understand why and where energy performance is poor and how to improve it.

It is a recommendation of the Carbon Trust that sub metering of high energy consumption infrastructure is implemented.

The installation of a sub meter within a server room on its own does not help to fully identify the efficiency of the facility.

EcoMeasure™ is a solution which enables I.T and Data Centre Managers to accurately benchmark the Power Usage Effectiveness (PUE), Data Centre Infrastructure Efficiency (DCiE) and usage of the server room environment through direct analysis of power and energy consumption.

EcoMeasure™ is invaluable for both government and commercial organisations which need to track costs associated with server room and data centre environments and to demonstrate CO^2 emission savings when investments are made in either infrastructure or technology.

EcoMeasure™ deployment benefits include:-

- **Assists in reducing energy consumption, minimising environmental and economic impacts associated with excessive energy use**
- **Scalable configurations to suit individual data centre and server room topologies whatever the size and complexity of the power distribution**
- **Instant confirmation of data centre DCiE / PUE efficiency ratings**
- **Accurate proof of the effectiveness of any "claimed" energy efficiency deployments throughout the life of the facility**
- **Measurement of energy consumption, critical load trends, power quality and response time of emergency power plant**
- **Ensure utility bills are correct**
- **Opportunities to improve a server room or data centres operational efficiency**
- **Shows how a server room or data centre compares to other internal or competitive facilities.**

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Interested in finding out more?

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