

ITM Solution Brief

Energy Analysis Engine



The ITM Energy Analysis Engine is a comprehensive and intuitive energy monitoring and targeting suite, providing an impressive range of techniques for managing all aspects of energy related data.

The Challenge

In order to comply with the new Carbon Reduction Commitment Energy Efficiency Scheme legislation which comes into force on 1 April 2010 organisations must build a data collection infrastructure that will allow them to collect data about all the energy they consume.

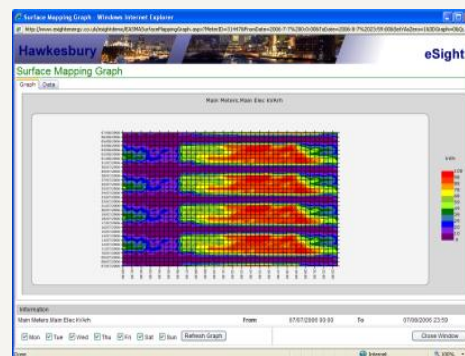
The total energy consumption of the organisation must be reported to the Environment Agency via a web based compliance process. Organisations will be required to purchase allowances from the Government at an initial price of £12 for every tonne of CO₂ emitted as a result of their energy consumption. From 2013 the number of allowances will be capped by around 5% each year and the allowances will be auctioned to the highest bidder. The price of allowances is expected to rise to around £40 per tonne. Organisations must establish business processes that will enable them to reduce their energy consumption by around 5% every year. Accurate monitoring of consumption is essential to be able to set departmental energy budgets.

Data Centres are expected to face one of the toughest challenges as they will be expected to keep operations running 24 x 7 whilst reducing the amount of power they use year by year.



The Solution

The ITM Energy Analysis Engine (EAE) is a 100% web enabled solution, built using the latest web-based (.NET 2.0) technology.



This means that the EAE:

- Only needs installing to a single location
- Can be accessed via the internet or intranet
- Only requires the Internet Explorer application to access EAE from the client PC
- Can be managed from a single central location thus making installation and on-going maintenance simple and cost effective.

Scalable Architecture

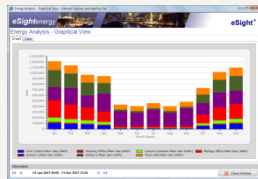
The EAE has specifically been designed to be flexible and scalable and therefore suitable for use across organisations of any size and any industry sector.

The EAE may be tailored to individual requirements both according to functionality via the modular design, but also according to the number of meters to be monitored.

The EAE is an extremely intuitive product. We believe that our users should be able to access their energy data with ease. We believe that we have achieved this in EAE with a user interface which is exceptionally user friendly.

Energy Analysis

Perform broad analyses of energy data including electricity analysis and league tables.



Financial Analysis

Manage supplier contracts, create and monitor budgets and analyse energy in terms of cost.

Invoice Validation

Validate invoices manually or automatically in bulk.

Contract Bid Management

Analyse supplier contracts to determine the best rate based on historical consumption profiles.

Calculated Meters

Calculate plant efficiency, compare sub meters with a main meter or aggregate data.

Data Exchange

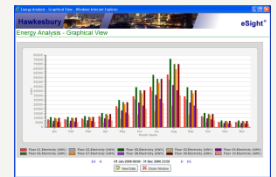
Allows the import and export of data in a large variety of formats.

Display Energy Certificates (DECs)

Construct display energy certificates in line with EU legislation, using our accredited module.

Benchmarking

Create benchmarking reports based on government or user defined standards.



Emissions Trading

Automatically manage CO2 emissions in line with EU ETS legislation. Keep track of carbon trades.

Reporting

Use a variety of report templates which may be run against different companies, sites and meters.

Tenant Billing

Calculate energy consumption and subsequent billing of tenants across one or more sites. Generate bills on a scheduled basis.

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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.

ITM Communications Limited

41 Alston Drive, Bradwell Abbey, Milton Keynes, Bucks, MK13 9HA, UK

TEL: +44 (0) 1908 318 844

FAX: +44 (0) 1908 318 833

EMAIL: enquiries@itm.uk.com

WEB: www.itm.uk.com