



Building Data Optimisation

- Reduce Energy Bills
- Maximise your BMS
- Hit CO₂ Targets



DATA DETECTIVES

IES has over 20 years' experience in advanced modelling and analysis of building performance. And our operational services are at the cutting edge of current Research & Development.

We combine global experience in performance analysis with advanced software to enable you to derive the maximum value from your BMS, utility and other operational data.

Our services include a complete review of your current data collection systems and process; helping identify and fill gaps in logging, and deal with the inconsistencies in timesteps and units that make gaining real value from your data challenging.

It involves an overall audit of all building management systems, monitoring and control infrastructure, data collection and utilisation, digital BIM assets and other relevant internal structures.

Our own online cloud-based software SCAN is used to gather, manage and analyse your valuable building data in a succinct fashion in one place. While, our building modelling mind-set uncovers and quantifies hidden performance issues.

If required we can link these capabilities to our Virtual Environment (VE) suite of advanced simulation tools. Doing this enables us to create building specific energy benchmarks, and virtually test and compare different improvement options against key KPIs.



MAXIMISE BMS PERFORMANCE

A key foundation to successful building energy management is taking control of operational data. IES can help you take a strategic approach and maximise the value that exists in your data.

Identify key KPIs and set up your processes to harvest the most valuable information for you. Gain a clearer operational understanding of a building or portfolio of buildings. Uncover hidden inefficiencies, save energy, reduce costs and drive continuous operational improvement.



FINE TUNE BUILDING OPERATION

Let us assess your building controls and identify operational waste with little or no capital outlay. We'll ensure your building is operating as efficiently as possible before you investigate and invest in larger scale efficiency improvements.

Once optimal performance is achieved, engage in ongoing continuous IES commissioning to detect faults as they occur and stop operational drift.



DELIVER COMFORTABLE, HEALTHY BUILDINGS

Stop un-intended comfort issues occurring when energy improvements are made and address occupant complaints.

The integrated nature of our performance assessment ensures that internal comfort conditions are also optimised as part of your energy, carbon and cost reduction strategies.

This can be across indoor air quality, thermal comfort, ventilation, lighting and humidity control.



TROUBLESHOOT KNOWN ISSUES

Working as building detectives, we can investigate areas where you know something just isn't quite right.

Our performance modelling mindset and data analysis capabilities ensure we get to the root of the issue, quantify its impact, and suggest ways you can address it.



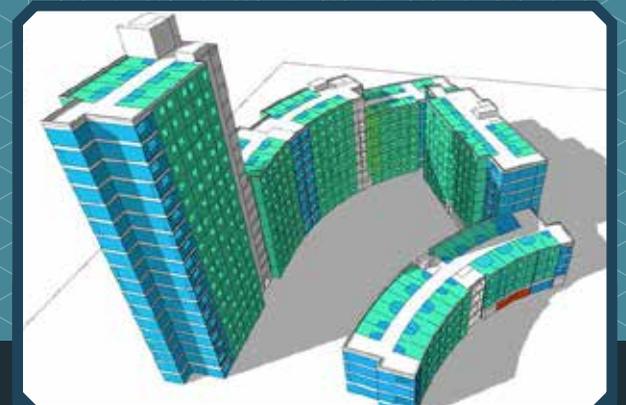
OPTIMISE NEW BUILDING PERFORMANCE

Newly built facilities can often use more energy than expected.

Our advanced data visualisation, modelling and analysis technology can be used right from the earliest stages of a building's life to fine tune and bring it up to operating at its efficient best.

By combining occupant feedback, with pre-existing EPC compliance models, and operational data collected from BMS and utility Metering infrastructure, we can ensure optimal performance is achieved.

This integrates with BIM Enhanced Commissioning, Soft Landings and Post Occupancy Evaluation approaches.



VIRTUALLY TEST 'WHAT IF' RETROFIT SCENARIOS

Imagine being able to use a 3D benchmark specific to your building to assess the business case for different Energy Conservation Measures.

Investigate a number of 'what if' scenarios, with a high degree of certainty. Group together several initiatives or look at each in isolation.

Predict the impact on key KPIs and understand the trade-offs in detail.

Understand opportunities for replication across a portfolio.

Do this before any money is spent or costly alternations are made.



OUR CI2 (CI-SQUARED) PROCESS

Used to deliver all the services we offer, our Ci2 process is driven by the IES SCAN technology.



INTEGRATED APPROACH

We view buildings as integrated systems, and understand the interrelated knock on effects changing one element can have.

When we fine tune buildings and bring them up to operating at their efficient best, we deliver energy, carbon and cost savings; while maintaining comfortable and healthy internal conditions.



BIM READY

Optimise energy-efficiency at every stage of a building's lifecycle.

Our Virtual Environment (VE) software is used by the world's leading engineers, architects and contractors and is fully integrated into a digital Open BIM (Building Information Model) architecture.

SINGLE BUILDINGS AND PORTFOLIOS

Our software and expertise allows you to assess a single building in isolation or understand discrepancies or opportunities for replication across a portfolio of buildings.



**MAKE THE MOST
OF YOUR DATA.
GET STARTED TODAY.**

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