



Energy & Environmental Consultancy

Low carbon solutions
Energy & carbon management
Utility monitoring and targeting
Energy surveys
Display Energy Certificates
Legislative & environmental consultancy

COST SAVINGS & COMPLIANCE

PUBLIC AND PRIVATE SECTOR ORGANISATIONS ARE UNDER SUSTAINED PRESSURE TO IMPROVE ENERGY EFFICIENCY AND ENVIRONMENTAL PERFORMANCE.

Within the emerging low carbon economies, poor sustainability credentials are increasingly likely to have a negative economic impact through increased costs and will expose brand or corporate reputations to unnecessary risk.

The focus on mandatory targets and limits on carbon emissions within both the national and international legislative agenda will ratchet up this pressure. The "Do Nothing" option is no longer viable.

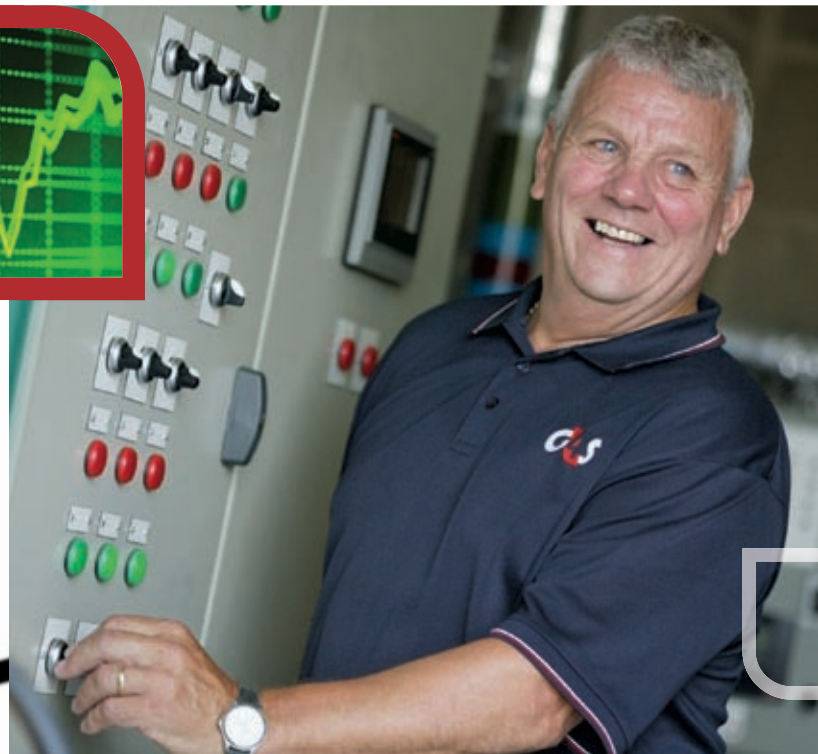
The G4S Energy & Environmental Consultancy provides specialist technical advice and guidance to support its customers in attaining their environmental targets – monitoring consumption, reducing waste and saving money. Our experience is based on practical, sound and cost effective principles, developed as we have 'greened' our own estate and that of our many public and private sector customers.

Utilising leading edge data management tools and expert energy and environmental management practitioners, we are able to provide a range of consultancy services that will help improve operational efficiencies and reduce costs.

Our Energy and Environmental Management consultancy service centres around four activity streams:

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|---------------------------------|--|
| Supply Side | Activities based around utility supplies such as procurement, delivery and consumption reporting. |
| Demand Side | Activities targeted at reducing consumption or carbon emissions such as energy surveys or project implementation. |
| Legislative Compliance | Activities that ensure your business meets and exceeds its legal obligations such as the CRC Energy Efficiency Scheme or DECs. |
| Environmental Management | Development, operation and audit of ISO 14001 Environmental Management Systems including waste management systems. |

"The CRC Energy Efficiency Scheme will force Boards across the UK to engage with improving the energy efficiency of their estate"



UTILITY SUPPLY SIDE CONSULTANCY

aM&T – Automatic Monitoring & Targeting

Supply side energy management services help clients derive value from utility information, be it electricity, gas, oil or water. Improved management and efficiency can only be achieved by comprehensive and systematic measurement. Some examples of cost saving opportunities include:

- Checking that the correct contract rates have been applied
- Ensuring electricity supply capacities match actual demand
- Maximising non-return to sewer allowances
- Ensuring application of correct VAT rates.

Using a class-leading Utility Data Management System (UDMS), utility data can be captured from a variety of sources, including invoices, half hourly data from 'smart' meters, CRC compliant AMR meters or manual meter readings via a web interface.

A dedicated Utility Data Manager oversees the entry of data into the UDMS and ensures energy reports and data analyses are completed to the highest standards and in line with customer requirements.

Reports can be produced on a regular or exception basis with timing intervals and formats designed to meet specific needs. Customers only receive the reports they need, when they need them and in a format that is both simple and easily understood. By leveraging the latest technology and professional support functions, we guarantee to deliver accurate, contemporary analysis, that supports 'best in class' energy management and delivers cost savings.

Utility procurement

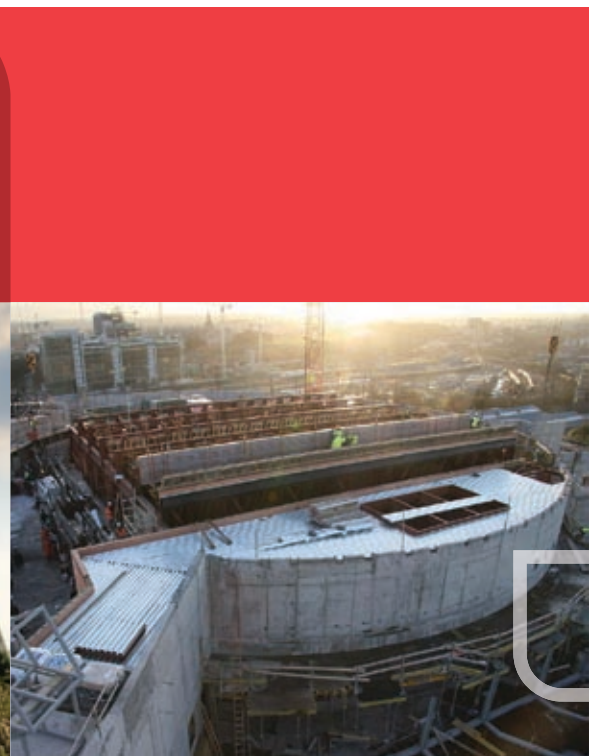
Accurate historic energy consumption records have a critical role in successful utility procurement. The integrity of this data will ensure suppliers minimise their risk premium, enable the value from alternative Seasonal Time of Day (STOD) tariffs to be accurately identified, and guarantee that a true bid comparison is prepared.

By interpreting the data held within the UDMS with our specialist tender evaluation software we can ensure that tender recommendations are based on the true lowest cost including all fixed and variable costs.

Our utility data capture and analysis systems are 'best in class' and ensure that the adage "you can't manage what you can't measure" does not apply to G4S.

Our partnership with the meter installation team of G4S Utilities Services also means that we have direct access to a provider of a CRC compliant AMR metering service."

Roger Hawes,
Head of Energy &
Environmental Management



UTILITY DEMAND SIDE CONSULTANCY

Energy surveys

Energy surveys establish the operational performance of a site or building in terms of energy consumption or carbon emission, thus providing a benchmark analysis of energy demand and data for identifying potential cost efficiencies.

Surveys are designed to provide clients with a range of cost effective measures with payback periods that typically range from immediate to less than three years. The extensive knowledge and expertise of the G4S E&EM team ensures that identified opportunities are valid, appropriate and cost effective.

Energy surveys can take many formats, ranging from quick, single day 'Energy Health Checks' to detailed site investigations utilising a range of energy demand monitoring tools.

Project implementation support

Energy surveys will typically lead to initiatives that involve either operational change or capital investment, such as:

- Raising staff energy awareness
- Optimising Building Energy Management Systems performance
- Voltage optimisation
- Lighting retrofits.

Our team will advise on potential suppliers, prepare procurement specifications or manage the complete end-to-end implementation process.

SMART METERING

Through G4S Utility Services we are able to provide customers with an end to end solution for smart metering that addresses both the CRC 'early action' metric and helps identify adverse consumption trends, providing opportunities to reduce utility consumption and CO₂ emissions. The service can be applied to both electricity and gas supplies.

G4S Utility Services has developed cutting edge, proprietary systems that use GPRS technology to remotely retrieve data from smart meters, process it and forward it to their customers or energy advisors with 100% accuracy, on time, every time. As part of the end to end solution offered by G4S, the data is captured and analysed in our aM&T system and adverse trends and possible reduction opportunities are fed back to our customers.

"Supply side energy management services help customers derive value from utility information"



LEGISLATIVE & ENVIRONMENTAL COMPLIANCE

CRC - Energy Efficiency Scheme

The CRC Energy Efficiency Scheme (CRC) is a mandatory 'cap and trade' scheme that commences in April 2010, with a cap applied from 2013. It is aimed at larger organisations that are not covered by the EU Emissions Trading Scheme or a Climate Change Agreement.

G4S has developed a proactive CRC strategy designed to maximise 'Early Action Metrics', ensure accurate forecasting of future allowance purchases and facilitate CRC performance monitoring.

G4S can draw upon substantial data management skills and extensive knowledge of the CRC principles and practices (the latter are particularly complex when managing joint ventures and PFI/PPP projects). As direct participants in the CRC we combine technical expertise and practical experience to help other organisations respond to the CRC challenge.

Display Energy Certificates (DECs)

Display Energy Certificates are mandatory for all government owned buildings, with a total floor area over 1,000m², which are frequently visited by the public.

Certificates reveal annual energy consumption, using an 'A' to 'G' rating system, where 'A' is the most efficient and 'G' the least efficient. The DEC certification process requires annual reviews.

Utilising the certified DEC module within our UDMS we are able to produce DEC's on an annual basis and provide year-on-year comparisons to help demonstrate portfolio improvements to stakeholders and interested parties.

ISO 14001 – Environmental Management System (EMS)

With the sustainability credentials of public and private sectors organisations under increasing scrutiny the management of environmental impact has become a critical performance factor.

Engaging a structured and accredited Environmental Management System will help manage and control impacts and ensure that all legislative requirements are identified and managed appropriately.

G4S has developed and operates compliant and accredited environmental management systems for major customers. We design processes that manage emission profiles and integrate into existing business management systems. We have a particular expertise in waste management.

Our extensive experience enables us to rapidly develop systems that integrate seamlessly into existing business management systems while effectively managing their emissions profile.





G4S FM

Farncombe House,
Broadway,
Worcestershire,
WR12 7LJ

Tel: 01386 85 85 85

Email: g4sis@uk.g4s.com
www.g4s.com/uk

Securing Your World

G4S FM

G4S FM is trusted by partners to deliver fully integrated facilities management services in secure and critical environments which require the highest standards of governance.

Successful organisations entrust us with their core assets and services, safe in the knowledge that they are managed to the highest standards by committed, skilled people - leaving them to focus on what they do best.

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