



# PUBLIC SECTOR ENERGY EVENT LONDON

Sponsored by  | Energy Solutions

## EVENT GUIDE 30 April 2019

Control your building's  
energy use and improve  
business performance

To find out more talk to us at stand 30



# Control your building's energy use and improve business performance

**Remote Optimal** is our new and powerful energy optimisation platform that improves the performance of your buildings. And in turn it improves the performance of your operations and your business as a whole.

With actionable insights from building analysis of all your energy systems, advanced tools to control, monitor and reduce your energy usage, and corrective action from a dedicated team of experts, you can unlock savings and take control today.

Find out how SSE Enterprise Energy Solutions can help improve your building performance.



Call us on  
0345 072 9529



Or visit  
[sseenergyoptimisation.co.uk/remotepoptimal](https://sseenergyoptimisation.co.uk/remotepoptimal)

**Remote Optimal**  
Energy intelligence for a better world

**sse** Enterprise | **Energy Solutions**

**PUBLIC SECTOR  
ENERGY EVENT  
LONDON**

Sponsored by  
**sse** Enterprise | **Energy Solutions**

## INTRODUCTION

Welcome to the first in the series of Public Sector Energy Events here at the Emirates – home of Arsenal Football Club.

We hope you enjoy your day with us. Please make full use of our hospitality whilst you network with colleagues, listen to our seminar programme and visit our exhibitors stands to see the latest developments, products etc.

### OPENING TIMES:

Doors open: 09.30  
Seminars begin: 10.00  
Lunch: 12.45 - 14.00  
Event closes: 15.30

## INSIDE:

- 3 Introduction
- 4 List of Exhibitors
- 17 Floorplan
- 18 Seminar Programme
- 20 Editorial/Case Studies

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## EXHIBITORS



### EVENT SPONSOR

#### SSE ENTERPRISE ENERGY SOLUTIONS STAND 30

While every business needs energy, it can be difficult to manage it efficiently. Our energy optimisation expertise can help you understand how you consume energy in your business, letting you take action to manage your usage, cut your costs and improve the performance of your building. Which in turn, will improve the performance of your business. [www.sseenergyoptimisation.co.uk](http://www.sseenergyoptimisation.co.uk)



#### CARBON TRUST STAND 19

The Carbon Trust is an independent, expert partner of leading organisations around the world, helping them contribute to and benefit from a more sustainable future through carbon reduction, resource efficiency strategies and commercialising low carbon technologies. They have 170 experts working around the world from offices in the UK, China, South Africa, Mexico, Brazil and the USA and their mission is to accelerate the move to a sustainable, low carbon economy. [www.carbontrust.com](http://www.carbontrust.com)



#### AFFINITY FOR BUSINESS STAND 4

Affinity for Business are a clean and waste water retailer based in Hertfordshire operating throughout the UK. We have a friendly, experienced team who offer a completely personal service – we are committed to helping our customers with every aspect of their account from water saving programmes to help them identify opportunities to reduce their consumption and become more sustainable, to delivering accurate, easy to understand bills.

We are a Crown Commercial Service approved supplier and we are certified ISO 9001, 14001 and 45001. Our fantastic service is the reason we're ranked #1 retailer by our customers on Trustpilot. [www.affinityforbusiness.co.uk](http://www.affinityforbusiness.co.uk)



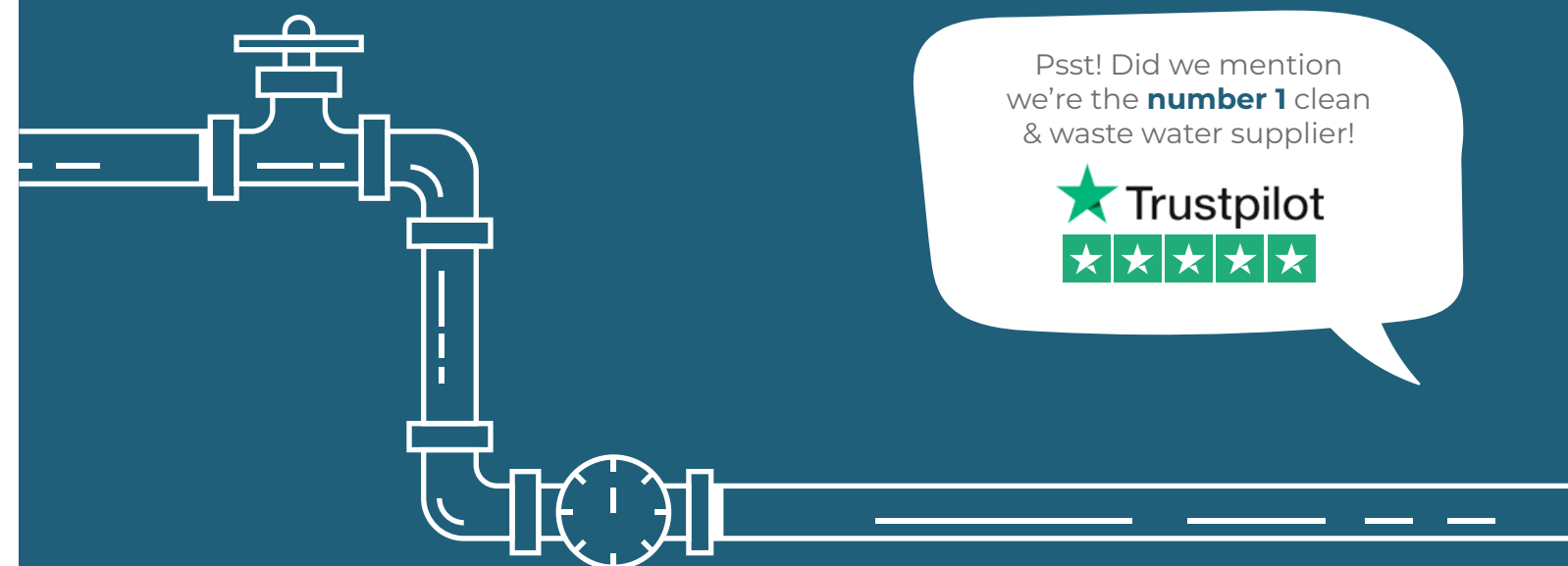
#### CHAUVIN ARNOUX STAND 11

Established 125 years ago, Chauvin Arnoux offer a comprehensive range of test and measurement products for use in electrical, thermal and energy markets. Products include Power & Energy Quality Analysers, Power & Energy Loggers, Thermal Imaging Cameras, Physical and Environmental Measuring Instruments, General Electrical Test Instruments, and many more. Design and production has been Chauvin Arnoux's core business allowing professionals to test the reliability, safety and efficiency of electrical distribution systems, and equipment connected to them, on a daily basis. [www.chauvin-arnoux.co.uk](http://www.chauvin-arnoux.co.uk)

## Trusted to deliver for the Public Sector

Switch to Affinity for Business for your clean and waste water services and you will benefit from:

- ✓ Dedicated Account Management support, there when you need us
- ✓ Guaranteed response times for key service requests
- ✓ Accurate billing with 97% of monthly bills based on actual reads
- ✓ No advanced billing, we only charge you for what you use
- ✓ Support from our in-house Sustainability Manager
- ✓ My Account portal and other online services
- ✓ Working with all major public sector frameworks including Crown Commercial Services, Laser, Barts Health NHS Trust Framework and the University of Essex Framework



Psst! Did we mention  
we're the **number 1** clean  
& waste water supplier!



0345 357 2424

[enquiries@affinityforbusiness.co.uk](mailto:enquiries@affinityforbusiness.co.uk)

[www.affinityforbusiness.co.uk/switch](http://www.affinityforbusiness.co.uk/switch)

Crown  
Commercial  
Service  
Supplier







### DUCTBUSTERS STAND 6

Ductbusters Ltd are a building services company specialising in the internal cleaning of a wide range of commercial, medical and educational premises. Created in 1996 with a core group of experienced Air Handling systems Engineers. It was apparent of the need for specialised cleaning of highly sensitive ventilation systems. With the increasing awareness of Indoor Air Quality and the recent major fire disasters, the requirements of Air Hygiene and Fire Dampers that actually work has led to significant accreditation with LPCB, BRE, BESA, CHAS, SAFECONTRACTOR, ALTIUS, ISO9000 and ISO14000. This has now placed Ductbusters as the leading UK Service Provider. <https://ductbusters.co.uk>



### ENERGY MANAGEMENT LLP STAND 5

A well-established and highly-regarded energy consultancy, Energy Management LLP has an outstanding track record in helping public sector organisations significantly reduce their energy costs, whether that's through procurement – securing the right deal at the right price and right time, recommending and implementing energy efficiency measures or by applying our expertise in areas such as invoice validation. Our experienced team of energy consultants and chartered engineers are also able to offer impartial advice on all other energy management-related matters, such as legislation and compliance, utility and budget management, change of tenancy and expansion and energy auditing. [www.energymanagementltd.com](http://www.energymanagementltd.com)



## About us

Established over 125 years ago, Chauvin Arnoux® offer an extensive range of test and measurement products for use in the electrical, thermal and energy markets. We also we offer comprehensive expertise and advice as well as real solutions for energy saving, efficiency and optimisation. Proud of our brands, **Chauvin Arnoux®**, **Metrix®** and **Chauvin Arnoux Energy®** we provide a wide range of measuring instruments used by millions of professionals the world over.

Our vast product range covers general electrical measurement (testers, multimeters, current clamps etc) electrical safety testers, wattmeters, and electrical network quality analysers, oscilloscopes and much more. Our areas of expertise include: Environmental measurements, Regulatory testing, Supervision of Installation (monitoring and supervising, analysing and diagnosing, correcting and resizing and maintaining for the long term.)

## The Complete PEL Kit

Total optimisation at your disposal



### Features & Benefits:

- Single, Split & Three-phase Installations
- No Mains Supply Interruption
- Harmonic Analysis up to 50th
- Bluetooth, Ethernet & USB
- Auto Sensor Detection
- Records to SD Card
- Real-time PC Analysis

### The Complete PEL Kit contains:

- PEL 103 Power & Energy Logger
- Self powered adaptor
- 3 MiniFLEX clamps
- 4 Magnetised probes
- 2 reeling boxes
- DataView software
- 4 crocodile clips
- Mains cable
- 4x3m measurement leads
- Free Lenovo TAB 7



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CHAUVIN ARNOUX UK Ltd | 125 YEARS IN BUSINESS | 30 YEARS IN THE UK  
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ENERGY CONTROLS  
Metering, Measuring and Managing Resources

### ENERGY CONTROLS STAND 10

Energy Controls Group is the UK's leading supplier of Electricity SMART Meters to the Landlord sector. We specialise in providing prepayment metering solutions using the very latest communications technology.

Energy Controls has been trading for almost 30 years and our products have a proven track record with more than 2 Million installations.

All of our meters are Government approved to the highest standards of accuracy and integrate with the national network of PayPoint terminals. This means that you no longer need to handle electricity payments and your tenants can pay for their energy in any one of over 20,000 retail outlets across the UK. [www.econtrols.co.uk](http://www.econtrols.co.uk)



### EVINOX ENERGY LTD STAND 12

Specialising in district and communal heating systems, Evinox have been involved in landmark developments such as Battersea Power Station, London City Island, and Wood Wharf at Canary Wharf, providing bespoke HIU's, metering and billing and service and maintenance.

Evinox's range of ModuSat® Smart interface units are designed and developed in the UK, tested to the BESA UK Standard for HIUs, and manufactured in their own production facility.

In addition to the supply of Heat Interface Units, Evinox provide Metering & Billing services, and a PAYG debt free system, which is used in thousands of social housing developments across the UK.

This is all backed up by comprehensive service and maintenance support that you can rely on. [www.evinoxenergy.co.uk](http://www.evinoxenergy.co.uk)



The Ideal Combination for  
Power & Energy measurement





### GEMINI DATA LOGGERS STAND 8

Tinytag data loggers accurately monitor temperature, humidity, power usage and CO2, locally or throughout a building, to help identify where steps can be taken to improve energy efficiency, maximise cost savings, and ensure the occupants' wellbeing. The range includes the Energy Logger, a portable, non-invasive device for monitoring single/three phase power usage: this is useful for monitoring energy consumption in line with ESOS and other energy management requirements. Temperature, humidity and CO2 loggers help validate whether heating and ventilation systems are working correctly, and record conditions to comply with H&S regulations. Tinytags are manufactured in the UK by Gemini Data Loggers. [www.gemindataloggers.com](http://www.gemindataloggers.com)



### HEAT NETWORKS INVESTMENT PROJECT (HNIP) STAND 29

The Heat Networks Investment Project (HNIP) is a major Government project which will invest up to £320m of capital funding in heat network projects. Triple Point Heat Networks Investment Management has been appointed as the delivery partner for HNIP.

The team is comprised of the following organisations: Triple Point Investment Management LLP, AECOM, Amberside Advisors Ltd, BDO LLP, Ecuity Consulting LLP, Gemserv and Lux Nova Partners Ltd.

We are working with BEIS to deliver affordable and dependable low-carbon heat across the country. Using a mix of Government and private sector funding, our approach will build a self-sustaining and transformative heat network market for the future. [www.tp-heatnetworks.org](http://www.tp-heatnetworks.org)



### HAVEN POWER STAND 23

Our mission is to help businesses use energy more effectively. To understand it, optimise it, and make it work hard for you. We offer renewable electricity as a simple first step – better for business, better for the planet. We then help you optimise your use, and even put power to work for you, creating new revenue streams and driving value, while you focus on driving your business forward.

We use collaboration, industry insight and vision to drive value and create a new, sustainable energy future for your business. [www.havenpower.com](http://www.havenpower.com)



### KENSA CONTRACTING STAND 24

Kensa Contracting are award-winning heat network delivery partners and contractors specialising in large-scale ground source heat pump programmes in the UK.

Offering unrivalled experience and expertise, Kensa Contracting delivers a complete solution including design, specification, project management, householder liaison, specialist sub-contractor supervision, equipment supply, commissioning, and support with access to subsidies.

Kensa Contracting is renowned for its innovative Shared Ground Loop Array systems deployed in social housing retrofits and social and private new build developments.

We deliver proven, robust and reliable systems from simple tried-and-tested to ambitious and innovative applications. [www.kensacontracting.com](http://www.kensacontracting.com)

# VENTILATION SYSTEM MAINTENANCE



## To TR19 and HTM 03-1

Widely used by NHS PCT's nationwide and the business, catering, manufacturing and leisure sectors.

### ✓ FREE Condition Checker

Discover if your ventilation system is in need of urgent attention. Visit [ductbusters.co.uk](http://ductbusters.co.uk) and try our on-line survey.

### FREE Site Survey

Arrange for one of our experienced Surveyors to visit your premises. Call free on 0800 085 0403 or visit the website for further details.

### FREE Consultation

Your building insurance may be void if you do not undertake fire damper drop testing. It's a legal requirement! Visit the website and view the video to find out more.



Jammed fire damper



Open fire damper



**Ductbusters Limited**  
Mortimer Hall, 1 Birmingham Road, Kidderminster, DY10 2BX. Tel: 0121 559 1555



**FREEPHONE: 0800 085 0403 [ductbusters.co.uk](http://ductbusters.co.uk)**



## MORRISON Utility Services

A part of MGroupServices

### MORRISON UTILITY SERVICES STAND 7

Morrison Utility Services (MUS) delivers a range of essential infrastructure services to the utilities, transport, data and telecom sectors across the UK and Ireland. MUS are highly experienced at working on utility and energy networks such as district heating and energy storage providing support to utility and private asset infrastructure owners. Clients receive a dedicated single point of contact and works are delivered by a highly trained and skilled workforce focused on delivering a complete turnkey service in design, project management, construction and commissioning. This ensures the simplest possible interface from initial enquiry through to handover of the final asset. The key to success in our business is not just technical competence, but an understanding of our customers' needs and delivering a value added service. [www.mgroupservices.com](http://www.mgroupservices.com)



### PRIVA STAND 22

A well-established and highly-regarded energy cPriva is one of the UK's leading suppliers of building control systems. Our network of fully accredited partners, offer our cutting-edge technology to provide comfortable, healthy and energy efficient working environments for all applications.

Priva Blue ID BMS Controllers are embedded with extended levels of integration and offer further connectivity via Priva cloud services allowing users to remotely manage sites and receive alarms from anywhere using the Priva TC Manager connect and Priva Alarms Apps.

Energy monitoring is offered by Priva TC Energy allowing users to monitor energy usage in either individual buildings or all buildings that are connected. [www.priva.com/uk](http://www.priva.com/uk)



### PILOT GROUP STAND 14

Pilot Group Infrastructure is a UK based company which provides sustainable energy solutions for industrial, commercial and public sector clients. We use our service-led application expertise to design, manufacture, supply and maintain innovative solutions. This enables us to add value through energy savings for a wide range of sectors including LED Lighting and Heating. Come and visit our stand and see how we can reduce your energy usage, all within low payback periods.

For more information visit:  
[www.thepilotgroup.co.uk/divisions/#infrastructure](http://www.thepilotgroup.co.uk/divisions/#infrastructure).



### SELECTAGLAZE STAND 25

Selectaglaze secondary glazing significantly improves the thermal performance of existing windows. Through the use of high performance seals and close fitted units; draughts are eliminated and heat loss is dramatically reduced. Secondary glazing is ideal for use in Listed and heritage buildings, as it is a reversible adaptation. Systems in the range also provide outstanding noise insulation and enhanced security. Units are independently performance tested – results can be downloaded from the website. Established in 1966 and Royal Warrant Holder since 2004, Selectaglaze provides a free technical advisory service and RIBA approved CPDs. [www.selectaglaze.co.uk](http://www.selectaglaze.co.uk)

# The easy way to meter, measure and control your energy supplies.



## Get paid upfront for your energy with our prepayment smart meters

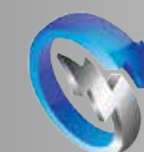
Ask us if you qualify for our unique 'Fit for FREE' solution

- Prepayment of energy = instant boost to your cashflow!
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- As installed by British Gas and many other Energy supply companies

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or visit: [www.econtrols.co.uk](http://www.econtrols.co.uk)



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[www.econtrols.co.uk](http://www.econtrols.co.uk)



**ENERGY CONTROLS**  
Metering, Measuring and Managing Resources





### SUSTAINABILITY WEST MIDLANDS STAND 20

Sustainability West Midlands were established in 2002 and are the sustainability adviser for leaders of the West Midlands. We're a not-for-profit membership organisation working with the private, public and third sectors. Our role is to act as a catalyst for change. Our stakeholders like our independence, our role as a hub of cross-sector good practice networks, and our drive to deliver a clear vision to create a better West Midlands.

We support organisations on an individual basis to ensure that sustainability is embedded into their vision and operations, and that they get the recognition they deserve for this.

[www.sustainabilitywestmidlands.org.uk](http://www.sustainabilitywestmidlands.org.uk)



### VINCI FACILITIES STAND 13

VINCI Facilities' Energy and Water Management provides innovative services and solutions to reduce energy, carbon, water, cost, and risk for customers and VINCI itself through our end-to-end approach to energy & water management.

We offer a tailored and scalable service to meet your needs – covering energy, water and carbon strategy, utilities procurement, bureau services, efficiency improvements, compliance, and innovations. Our services are led by experienced energy managers and we can consider different commercial models such as gainshare and performance guarantees.

VINCI Facilities are proud to be benchmarked annually as leaders in the Sustainable FM Index. [www.vincifacilities.com](http://www.vincifacilities.com)



### SYNAPSYS SOLUTIONS STAND 3

Synapsys Solutions innovative hardware and software solutions help improve building performance, reduce time pressure on facilities personnel and help building owners improve the sustainability and well-being of their buildings and occupants.

So how do we do that? Now that almost all building technologies come with controls fitted, the challenge is to get them to work together. Our SIP and SIP+ products enable decentralised systems to communicate together effectively and to present the key information from them to a broad range of building users, utilising smart display technologies. Furthermore our products enable the transfer of data held in those systems to enterprise applications as well as our own SIP insight software solutions for analytics, energy management and billing. [www.synapsys-solutions.com](http://www.synapsys-solutions.com)



### VITAL ENERGI STAND 15

Vital Energi provide efficient low-carbon energy generation and heat network solutions across the public and private sectors throughout the UK, reducing carbon emissions, energy bills and helping to alleviate fuel poverty.

With over 30 years' experience we have connected over 78,000 homes to district heating. Our team are responsible for some of the UK's first and largest district energy projects in Nottingham, Sheffield and London.

We work with Local Authorities, Universities and NHS Trusts to provide sustainable and viable energy solutions. Over the next 30 years we are guaranteeing to save the NHS £270m in financial savings and reduce CO2 emissions by 1.1 million tonnes. [www.vitalenergi.co.uk](http://www.vitalenergi.co.uk)



## Choose the 'Smart' HIU with Hidden Extras

Designed for modern, energy efficient heat networks, and tested to the UK Standard from BESA, the ModuSat® XR HIU delivers high performance at low primary flow temperatures, in-line with new GLA planning guidance.

Units come as standard with full remote connectivity, which allows for diagnostics, commissioning, aftercare support and meter data to be accessed over the internet.



#### Features

- ✓ Extra compact and ideal for tight installation constraints
- ✓ Electronic Control
- ✓ Optional Energy Display Device
- ✓ Fast and responsive DHW performance

#### Designed for Efficiency

- ✓ BESA tested
- ✓ Programmable Keep-Warm function
- ✓ High performance at low primary flow temps as per GLA planning requirements
- ✓ Low DHW return temperature, as per CIBSE CP1

#### Metering & Billing

- ✓ Inbuilt MID approved heat meter
- ✓ Integrated Pre-payment technology – Ready to go!
- ✓ Open protocol data access

#### Remote Connectivity

- ✓ Remote configuration and commissioning
- ✓ SmartTalk® Pro web portal for aftercare during defects liability period

Selecting the best ModuSat® XR HIU for your next project couldn't be easier, use our online sizing & network calculations tool today!

[selector.evinoxenergy.co.uk](http://selector.evinoxenergy.co.uk)



Discover how **Evinox Energy** can deliver the best **Heat Interface Unit** solution for your next new build or refurbishment heat network project at [www.evinoxenergy.co.uk](http://www.evinoxenergy.co.uk), email [info@evinox.co.uk](mailto:info@evinox.co.uk) or call 01372 722277.



### VITAL ENERGI STAND 9

WME is a leading purchasing organisation with over 25 years' experience specialising in managing energy contracts for the public sector. Our service offering includes the provision of OJEU compliant frameworks for gas, electricity, oil, LPG and water. In addition, our risk managed procurement strategy is proven to offer competitive energy prices. We offer both 'fully managed' and 'procurement only' service options so are sure to have something to suit your requirements. We currently supply to 10,600-meter points and provide energy to 11 Local Authorities, numerous Town & District Councils, the NHS, Blue Light Services and approximately 1,850 education settings by 1.1 million tonnes. [www.westmerciaenergy.co.uk](http://www.westmerciaenergy.co.uk)



### ENERGY ELEPHANT STAND 2

EnergyElephant helps organisations make better energy decisions using their data. We create a simple, searchable, A.I. powered home for all your energy and sustainability data both locally and globally. <https://energyelephant.com/>



### ENEL X STAND 27

Enel X is a global company with strong roots in the energy sector and an open strategy geared towards sustainability and innovation. Enel X combines the spirit of a startup with the infrastructure of a leader to help organisations buy, store, use, and share their energy more strategically. In the UK, we've been helping businesses identify new opportunities from their energy use that solves challenges, achieves objectives, and enhances public sector service delivery since 2009 (as EnerNOC). Our recent rebranding to Enel X means a larger suite of energy management and infrastructure products and services, including electric vehicle charging solutions. <https://www.enelx.com/en>



### ENERGY MANAGER MAGAZINE STAND 26

The Public Sector estate has a significant carbon footprint. Over £3.5billion is spent on energy use per year by public sector bodies and energy bills are getting bigger by the day. Energy efficiency is a must given the current limited resources.

Energy Manager Magazine is the only energy journal exclusively dedicated to the Public Sector, thereby giving you unique access to this most important market.

Energy Manager Magazine was launched to assist all those working in the public sector energy environment, to source ideas, products, services and solutions. [www.energymanagemagazine.co.uk](http://www.energymanagemagazine.co.uk)



VISIT US  
ON STAND  
14

Technology to improve the places we live and work

Pilot Group Infrastructure is a UK based company which provides sustainable energy solutions for industrial, commercial and public sector clients. We use our service-led application expertise to design, manufacture, supply and maintain innovative solutions. This enables us to add value through energy savings for a wide range of sectors including LED lighting and heating control.

Come and visit our stand and see how we can reduce your energy usage, all within low payback periods.

## HILCLARE

LIGHTING MANUFACTURER  
— LED BY DESIGN —

UK based LED lighting manufacturer with over 25 years' experience, offering a broad range of products and solutions for commercial and industrial sectors.

Hilclare provides:

- ✓ Expert product advice
- ✓ Specification and application advice
- ✓ On-site surveys
- ✓ Lighting design service
- ✓ Bespoke manufacturing
- ✓ Retro-fit design



**HILCLARE**  
LIGHTING MANUFACTURER  
— LED BY DESIGN —  
0161 274 3626  
[hilclare.com](http://hilclare.com)



A specialist in energy management systems for over 25 years. With over 7,500 installations across the UK, USA and Europe, Vickers has helped thousands of customers save on energy usage.

The comprehensive service includes:

- ✓ Energy usage surveys
- ✓ Purchase options
- ✓ Warranty and support
- ✓ Annual service agreements
- ✓ Lighting schemes



**Vickers**  
ENERGY MANAGEMENT EXPERTS  
0161 886 7190  
[vickers-electronics.co.uk](http://vickers-electronics.co.uk)



# PUBLIC SECTOR ENERGY EVENT

## SCOTLAND

6 NOVEMBER 2019 – HAMPDEN PARK, GLASGOW

The second in a series of regional Public Sector Energy Events will take place in Scotland on 6 November 2019, at Hampden Park, Glasgow.

### WHY EXHIBIT

- The best way to meet and network with top quality public sector energy professionals from Government, Local Authorities, NHS, Education & Housing Associations in a relaxed and intimate environment.
- Highly targeted & cost-effective – cheaper than many journals will charge for a full page of advertising.
- Free lunch, coffee/tea.
- Delegate list, (in accord with GDPR regulations) including no-shows.
- Full page advertisement/advertorial in our event guide given to all visitors.
- Your details on our website page for this event.

### VISITOR INFORMATION

We are expecting 200-300 energy professionals from the Public Sector, most of whom are responsible for multi-sites.

### STAND DETAILS

- All stands are 3m wide x 2m deep. Floor space only – no shell scheme. If a larger stand is required please contact us.
- Exhibitors to supply own stands.
- Table and chairs supplied.
- Electric supply limited – check for details.

### STAND COSTS

- 3m x 2m Stand – Space only --- **£850 + VAT**

### SPONSORSHIP

#### HEADLINE SPONSORSHIP

The Headline Sponsor will receive the following:

- Name on all publicity regarding the event.
- Logo and information on website home page and dedicated event page.
- Display area in foyer and reception area at event.
- Use of video screens in exhibition area.
- Full page advertisement in 3 issues of Energy Manager magazine.

**Cost: £5,000 + VAT (includes stand).**

Other sponsorship opportunities are available. Please contact us for more information.

#### EARLY BIRD RATE

Book before  
31 May 2019

Should you wish to make a booking or if you require any further information please contact:

**Ralph Scrivens**  
E: [ralph@energymanagemagazine.co.uk](mailto:ralph@energymanagemagazine.co.uk)  
Mob: 07940 532501

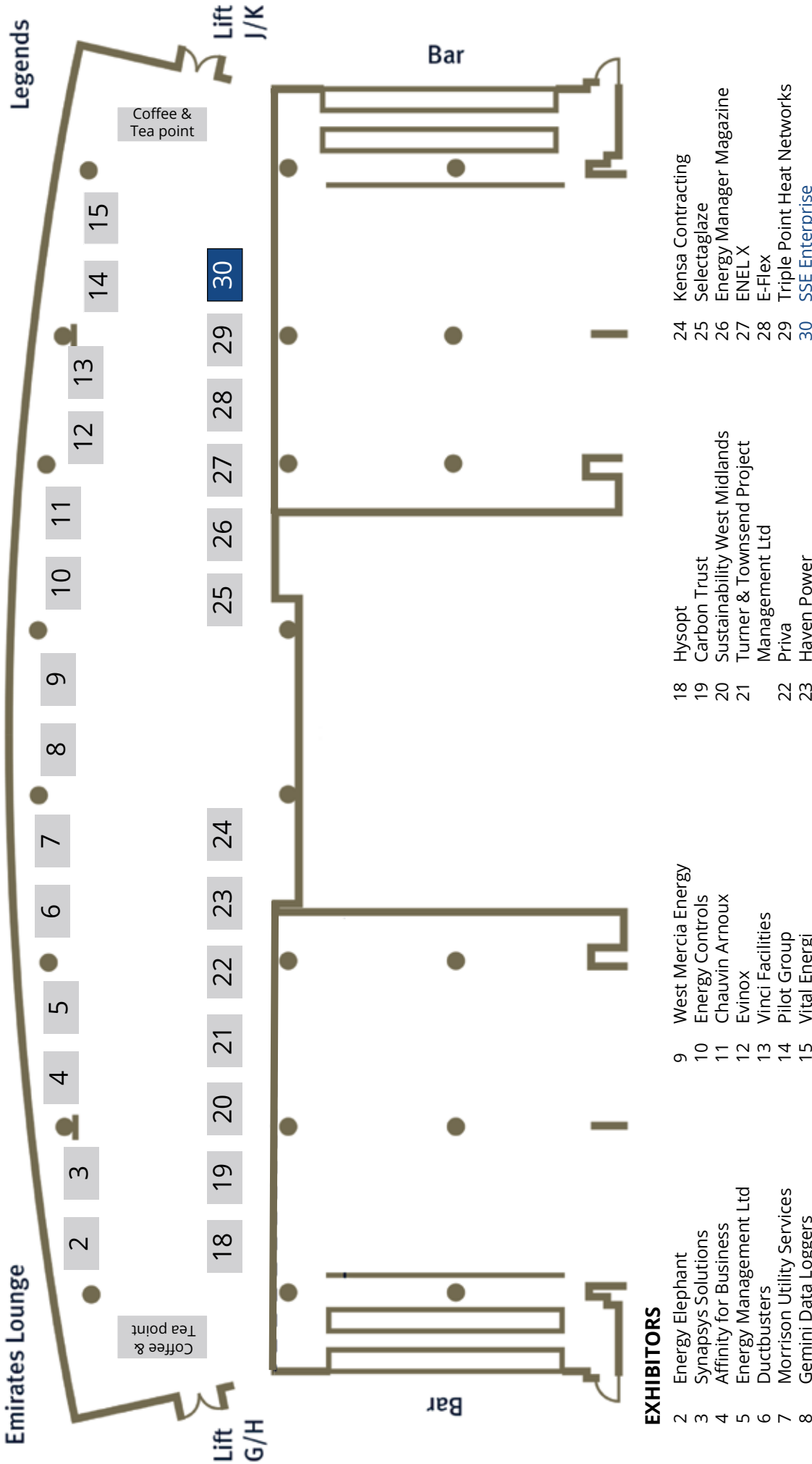
**James Scrivens**  
E: [james@abbeypublishing.co.uk](mailto:james@abbeypublishing.co.uk)  
Mob: 07939 537649

# PUBLIC SECTOR ENERGY EVENT

## LONDON

Sponsored by **sse Enterprise** | **Energy Solutions**

30 April 2019  
Emirates Stadium





# SEMINAR PROGRAMME

## Session 1: 10.00 AM

- Science Based Targets – **Robert Hatcher, Carbon Trust**
- Driving building performance using a single view of your energy assets – **Arthur Borg, SSE Enterprise Energy Solutions**

## Session 2: 11.00 AM

- Open Water Market – The Opportunity For The Public Sector – **Howard Gray, Affinity for Business**
- Sustainability challenges and opportunities for public sector organisations – **Paul Marriott, Haven Power**

## Session 3: 12.00 PM

- Mind The (Performance) Gap – **Paul Lynch, Vinci Facilities**
- Energy Management Using Cloud Based Services – **Adrian Scott, Priva**

## Session 4: 2.00 PM

- Energy And Cost Savings Through The Energy Technology List – **Rob Franklin, Carbon Trust**
- How To Use District Ground Source Heat Pumps To Reduce Carbon Emissions In Social House New Build – **Dr Stuart Gadsden, Kensa Contracting**
- Raising Energy Performance In Listed Buildings With Secondary Glazing – **Nic Dabney, Selectaglaze**

CREATING  
A CLIMATE  
FOR GROWTH  
**PRIVA**

# BUILDING AUTOMATION

## PRIVA BUILDING AUTOMATION

### Creating a climate for growth

Priva Building Automation helps owners, developers and investors to build environments that make people feel better while using energy in the most sustainable manner possible. We use our technological knowhow and expertise to develop building automation solutions that create the perfect climate for any given activity and reduce the environmental footprint of buildings.



# THE CARBON TRUST

The Carbon Trust is an independent, expert partner of leading organisations around the world, helping them contribute to and benefit from a more sustainable future through carbon reduction, resource efficiency strategies and commercialising low carbon technologies. They have 170 experts working around the world from offices in the UK, China, South Africa, Mexico, Brazil and the USA and their mission is to accelerate the move to a sustainable, low carbon economy. Their experts, drawn from a range of backgrounds and nationalities, can help your organisation tackle climate change by reducing your carbon emissions and identifying growth and revenue opportunities through resource reduction initiatives, cost-saving strategies and the adoption of resource-efficient technologies.

The Carbon Trust will be exhibiting at the Public Sector Energy Event to publicise the Energy Technology List (ETL) and the accompanying Enhanced Capital Allowance (ECA) scheme. The ETL currently lists approximately 15,000 of the most energy efficient products across 56 technology categories. The ETL is a government-backed, free-to-use list that provides organisations with the confidence that they are buying plant and machinery that demonstrate a high standard of energy efficiency. This is backed by regular, independent evaluations of the market across the relevant technology categories, providing a benchmark for what currently represents top performance.

There is also an attractive financial benefit available to businesses that invest in equipment listed on the ETL. Until April 2020, companies are eligible for 100% accelerated tax relief on these products through the use of ECAs. While the clock is ticking on the availability of ECA tax relief, it is important to note that the government has no plans to stop supporting the ETL beyond April 2020. For those seeking to pair the ETL with another form accelerated tax relief, the Annual Investment Allowance (AIA) limit is being raised to £1 million for two years from January 2019. Businesses investing in new plant and machinery will be able to claim through the business' AIA instead.

Based on rigorous standards and testing processes, the ETL allows manufacturers to credibly claim that their products demonstrate top quartile energy saving performance, and offers customers operational savings when compared with less efficient alternatives. When it comes to buying new equipment, businesses are increasingly looking beyond up-front capital costs to consider total cost of ownership. This is why the ETL has become an integral part of the procurement processes for many large businesses and public sector organisations. For example, when designing energy efficient features for your new or existing buildings, selecting equipment from the ETL can contribute towards achieving SKA rating or a successful BREEAM assessment. Both schemes include ETL listed energy efficient equipment in their criteria.

The ETL also complements other government-backed energy efficiency policies, such as the Energy Savings Opportunity Scheme (ESOS). Although ESOS energy assessments do not require companies to implement identified cost-effective energy saving recommendations, it is expected that they will encourage greater levels

of procurement for energy efficient technologies, making the ETL an extremely helpful resource.

The ETL functions as a quick tool in order to identify independently verified high performing products without the need to conduct time consuming market research.

The Energy Technology List is composed of two separate sub-lists: the Energy Technology Product List (ETPL), which is a list of qualified energy saving products; and the Energy Technology Criteria List (ETCL), which is a list specifying the energy-saving performance requirements products must meet or exceed to be supported by the ECA scheme. Most purchasing businesses will only have to concern themselves with the ETPL. Technologies supported by the ECA scheme are:

- Air-to-air energy recovery
- Automatic Monitoring and Targeting (aM&T) equipment
- Boiler equipment
- Combined heat and power (CHP)
- Compressed air equipment
- Heat pumps
- Heating, ventilation and air-conditioning (HVAC) equipment
- High speed hand air dryers
- Lighting
- Motors and drives
- Pipework insulation
- Radiant and warm air heaters
- Refrigeration equipment
- Solar thermal systems and collectors
- Uninterruptible power supplies

Waste heat to electricity conversion equipment  
Improving levels of energy efficiency helps organisations to reduce operating costs and lower their energy bills, resulting in a shortened payback period for new equipment and strengthening the business case for action. A further benefit to the use of higher energy efficiency equipment is the ability to reduce carbon dioxide emissions, helping businesses to combat climate change and meet required internal or external sustainability targets. It is estimated that the ECA scheme has been used by UK businesses to capture around £100 million a year in accelerated tax relief and abate carbon emissions equivalent to approximately 88 million tonnes of CO2 since 2001.

Come and visit the Carbon Trust at stand 19 and find out more about the ETL and ECA. Our experts will be there to answer any questions you might have.

If you can't make it to the stand, our experienced team at the Carbon Trust is on hand to talk you through any questions you may have around the Energy Technology List or the Enhanced Capital Allowance scheme. Give us a call on **0300 3300 657** or email: [ECAQuestions@carbontrust.com](mailto:ECAQuestions@carbontrust.com)

For more information please visit our website [www.carbontrust.com](http://www.carbontrust.com)



Energy and Building Managers are becoming increasingly important in running public sector buildings, but also face more challenges. The ability to balance daily business pressures, with the combination of statutory, legislative and compliance along with analysing performance data to drive efficiency is becoming a refined art.

At Synapsys, we have focused our attention and product development to support Energy and Building Managers to easily acquire meter and BMS data from buildings and estates, and provide platforms for data analysis, user engagement and tenant billing.

Our solutions are developed to help Energy and Building Managers:

- Implement and support energy management and sustainability initiatives
- Unlock the full value from installed systems
- Use the data from buildings and systems to drive asset reviews
- Visualise energy usage to aid improve building efficiency
- Accurately and fairly bill tenants on actual and/or apportioned energy usage

Data acquisition & transfer made easy



Energy & Building Information Software



Simple tenant billing & energy apportionment



Come see us on Stand 3 to find out more

SIP Technology. Helping Energy and Building Managers drive energy and building efficiency



# POWER TO THE PEOPLE – THE TRUE COST

Research carried out by leading energy consultancy Energy Management LLP has revealed that NHS Trusts spend an estimated half-a-billion pounds on gas and electricity.

Powering the public sector is a costly business. Keeping offices, hospital wards, classrooms and leisure centres heated, lit, ventilated and air conditioned can be a major drain on finances.

Information obtained under the Freedom of Information act by Energy Management LLP, one of the country's leading energy and water management consultancies, has revealed the true extent of the cost in some of these key sectors.

Of the 237 NHS Trusts contacted by Energy Management, 64 percent responded with their estimated annual energy consumption figures for both gas and electricity across all their sites coupled with the financial cost.

The combined total spent on energy for the financial year up to 2017 was an eye-watering £375 million. If you take the average amount per Trust and apply it across the board, the figure would pass through the half-a-billion mark.

Unsurprisingly Barts Health, the largest NHS Trust in the country with a turnover of over £1.4 billion and a workforce of 16,000, topped the energy spend table with an estimated 12.6 million. Manchester University NHS Foundation Trust, with 76 hospitals and clinics, came a close second with £11.4 million.

For Councils too, many of whom are under severe financial pressure, energy accounts for a large proportion of their overall spend. Taking England, Scotland and Wales into consideration, the overall combined spend of 23 Councils (out of 79) that responded was an estimated £93.6 million. In

Nottinghamshire CC alone, £4 million was spent on electricity in 2016/17 for street lighting, signs and signals.

Increasingly there is a need for public sector organisations to lower energy bills, hedge against future volatility and adopt measures that help comply with green energy legislation.

Decarbonisation and government taxes and levies (third-party costs) now account for the majority share of energy bills (over 60% and rising), placing as much emphasis on energy efficiency as procurement. The phrase 'the cheapest unit of energy is the one you never use' is well-liked at Energy Management LLP for good reason.

For many organisations, time poverty means that managing the work required to reduce their energy consumption is an undesirable distraction from their day-to-day core activities. To further compound this, there may also be a lack of energy expertise and distinct skills gap creating barriers to finding savings and implementing reduction initiatives. This is where an expert reputable energy management consultancy can step in to remove these barriers and ease the way forward to achieve effective reductions.

It has never been more important to understand and control your energy costs and our bespoke energy management portal, EM-Powered, enables you to do that.

If you would like more information on EM-Powered and its wide range of features and benefits, please get in touch with Ian Scattergood on **01225 867722** or email **is@energymanagementltd.com**



We are one of the UK's longest established providers of heating and cooling network solutions with over 30 years' industry experience. We uniquely operate in all markets and have the largest in-house design team of over 70 people dedicated to creating high quality energy solutions.

We work in a variety of sectors throughout the UK including further education, healthcare, retrofit residential, new build developments, urban networks, and commercial and industrial.

Our team are responsible for some of the UK's first and largest district energy projects in Nottingham, Sheffield and London.

We have experience delivering a range of technologies making us one of the leading providers of low-carbon energy solutions.

## Leaders in energy...

- > Generation
- > Distribution and networks
- > Data monitoring, optimisation and consumption reduction

We offer energy performance contracts to guarantee savings which has seen us guarantee savings of over £300 million in energy costs for the NHS. We can measure, manage and reduce energy consumption, cut carbon emissions, save money and boost business performance.

## WE CAN BE YOUR...

- > Partner
- > Energy Strategy Consultant
- > Designer
- > Contractor
- > Asset Manager
- > Service Provider
- > ESCo Operator

## VITAL BY NUMBERS

- > **130** energy centres completed
- > **140,000m** of district heating pipe installed in the past 3 yrs
- > **78,000+** properties connected
- > **460+** employees
- > **70+** energy centres operated and maintained
- > **38** awards won for innovation



Providing sustainable & viable energy generation, network & management solutions throughout the UK

## CONTACT US

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e: sales@vitalenergi.co.uk

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## CASE STUDY - NORTH SOMERSET COUNCIL

Faced with budget cuts, North Somerset Council (NSC) contacted us because they were looking for a reputable energy consultancy to help them find savings on one of their biggest overheads – energy.

Our relationship with NSC started in 2009 and it is set to continue into a third decade due to the high levels of customer satisfaction.

NSC benefits from the full range of our energy management services including Invoice Validation. More than £350,000 has been recouped from suppliers in the last six-and-a-half years after our team discovered the Council had been billed incorrectly.

## SERVICES OFFERED

- Procurement
- Dedicated account management
- Market analysis

- Invoice Validation
- Engineering Advice
- EM-Powered energy management portal

## BENEFITS

- Accurate invoicing
- Procurement of contracts at competitive rates
- Ease of service for technical issues e.g.; new meter installs, change of tenancy application

## WHAT NSC SAY ABOUT US?

"Energy Management provide unrivalled expert advice, which has resulted in significant cost savings for the Council. We are extremely happy with the service we receive from Energy Management LLP and would recommend them without hesitation." – Commercial & Compliance Officer for the Council.



# SUSTAINABILITY OPPORTUNITIES FOR PUBLIC SECTOR ORGANISATIONS

While operating with tight budgets, limited time and other resource constraints, the public sector is under pressure to deliver on a number of sustainability targets.

For example, the government's Clean Growth Strategy (CGS) demands a 30% reduction in the sector's carbon emissions by 2020-21. The Carbon Trust believes that energy efficiency investment in the public sector could lead to savings of around £860 million each year and free up capital for low carbon businesses.

So, how can the public sector achieve sustainability success? The government's funding and incentive schemes, as well as the energy industry's development of relevant technology solutions, may present enough opportunities.

## USING ENERGY STORAGE TO POWER REDUCTIONS

Cost decreases mean that electricity storage capacity is growing. This extends the viability of low carbon sources of renewable electricity - such as solar and wind - that can only generate when conditions are right. Being able to store this power when the sun shines and wind blows means it's available for later use. This reduces the need for higher-emission generation to match those future demands.

National Grid works with several organisations that collectively provide over 200MW of battery storage capacity before 2020 on an Enhanced Frequency Response (EFR) basis. EFR supports efforts to balance the system by offering a very quick response time; participants can increase or decrease their generation output in less than a second.

As the network decentralises, there'll be more opportunities for the public sector to use battery storage. This will reduce emissions overall, and save you money by allowing you to switch to stored electricity when Grid prices are higher. It also reduces risk, since you're less reliant upon centrally-generated power and therefore less susceptible to outages.

## GENERATING POWER FOR EXTRA MONEY AND STABILITY

A Power Purchase Agreement (PPA) can make a different but equally valid contribution to sustainability. It's an energy buying arrangement - either between an end user, energy supplier and generator, or directly between a generator and supplier.

A PPA can include the purchase of renewable energy from a local source, such as a solar or wind farm. This

can help provide financial stability for the generator when there's a long-term deal with a fixed price for the power. It can also contribute to reducing overall UK emissions and supporting the public sector's own CGS targets.

## RESPONDING TO DEMAND AND EARNING MORE

Demand Side Response (DSR) schemes earn participants financial rewards for increasing or decreasing demand on the grid. Together, these actions can help the system operator to balance supply and demand as well as reduce emissions. The latter is possible because getting into balance means the country's fossil-fuelled power stations can produce less.

Some public sector organisations are well-placed to take advantage of DSR, especially when they have consumption flexibility, on-site generation assets and energy storage capabilities.

Colchester University Hospital NHS Foundation Trust worked with Haven Power and energy consultants KiWi Power to reduce its energy spending and meet its sustainability goals. The resulting projects cut carbon emissions and, through DSR, led to a new annual income stream of £200K.

## DRIVING TOWARDS AN ELECTRIC FUTURE

More individuals and organisations are buying Electric Vehicles (EVs) as their price continues to fall. At the same time, more charging stations are appearing in public spaces and at workplaces across the UK.

This expansion in ownership and infrastructure is highly relevant for the public sector. There are around 25,000 central government fleet vehicles in the UK and a further 50,000 under local council management. The government has committed to making 25% of its central vehicle fleet electric by 2022.

In time, these zero-emission vehicles will also add to the energy storage capacity available, as vehicle-to-grid (V2G) technology contributes to the network decentralisation process.

For more information on how the public sector can succeed sustainably, visit the Haven Power stand or download the company's white paper: "Sustainability in the public sector"

[www.changewithhaven.co.uk/publicsector](http://www.changewithhaven.co.uk/publicsector)

# USING DATA LOGGERS TO HELP ANALYSE ENVIRONMENTAL CONDITIONS AND ENERGY USAGE

Data loggers are a useful tool in the drive towards energy efficient buildings, providing concise and accurate data about the actual environmental conditions at various locations, throughout a building. This data provides the information required to assist research and to evaluate the benefit of any improvement measures that are tested or put in place.

Regular monitoring and analysis of results will help identify and prioritise the most appropriate energy saving measures in line with ESOS, ISO 50001 and other energy management targets.

Tinytag data loggers record environmental parameters over time, allowing conditions to be measured, documented, analysed and validated. Loggers in the range monitor temperature, relative humidity, energy usage, CO<sub>2</sub>, voltage, current and count, and are ideally suited to indoor building monitoring where size, flexibility and portability may be important.

## TYPICAL APPLICATIONS

- Monitoring the performance of HVAC systems/building control systems
- Indoor Air Quality (IAQ) monitoring and carbon dioxide levels
- Monitoring the efficiency of building materials
- Monitoring the efficiency of equipment e.g. boilers, monitoring consumption and recording profiles over time
- Assessing before and after performance of replacement lighting systems

## TINYTAG CASE STUDIES

The University of Chichester uses Tinytag temperature and energy data loggers to provide data that helps them to implement energy saving initiatives and verify improvement measures.

Warmworks Scotland uses Tinytags to deliver the Warmer Homes Scotland Scheme, the Scottish Government's flagship national energy efficiency scheme, helping to assess temperatures and energy usage in domestic properties as part of a fuel-poverty impact evaluation study.

The British Frozen Food Federation (BFFF) used Tinytag temperature data loggers in energy saving research initiative, helping the frozen food industry to understand better the importance of using data loggers to improve temperature management and energy efficiency in the cold chain while complying with regulations.

The Black Country Housing Group uses Tinytag temperature and relative humidity data loggers to help evaluate the performance of energy saving measures in domestic properties and establish the value of new technologies.

Researchers at Oxford Brookes University used carbon dioxide data loggers in building performance evaluation and monitoring studies for domestic and non-domestic, new build and refurbishment projects.

The Energy Saving Trust used Tinytag temperature data loggers in a research project designed to maximise energy efficiency within housing. The data loggers were left to record during field trials of advanced heating controls to help establish the levels of energy savings.

Gemini Data Loggers (UK) Ltd. [www.tinytag.info](http://www.tinytag.info)  
Tel: +44 (0)1243 813000 Email: [info@tinytag.info](mailto:info@tinytag.info)

**Gemini**  
DATA LOGGERS



Manufactured in the UK

## Tinytag Data Loggers: Robust Environmental Monitoring Solutions

power usage » temperature » humidity » co<sub>2</sub> » count » voltage » current

### Energy Consumption Monitoring: Energy Logger

- Non-invasive and easy to use
- On screen voltage, current & power
- Compact and hand-held
- Builds consumption profiles

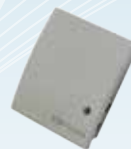


Full kit  
£795  
+VAT

Energy Logger  
Single and three phase  
power monitoring

### Workplace Monitoring: Temperature, RH, CO<sub>2</sub> & count

- Verify performance of HVAC
- Ensure H&S compliance
- Help maintain optimum air quality
- Record footfall in key areas



From  
£325  
+VAT

Tinytag CO<sub>2</sub>  
Indoor carbon dioxide  
logger

### Water-Based Systems: Temperature, RH, flow rate

- Legionella
- Flow and return, pipework monitoring
- Consumption level monitoring
- Boiler efficiency



From  
£95  
+VAT

Tinytag Plus 2  
Rugged outdoor/industrial  
temperature/RH logger

RECORDED DATA IS DOWNLOADED TO A PC AND VIEWED WITH  
EASY TO USE TINYTAG EXPLORER SOFTWARE

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[www.tinytag.info](http://www.tinytag.info)

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DATA LOGGERS



# WHAT IS THE HEAT NETWORKS INVESTMENT PROJECT?

The Heat Networks Investment Project (HNIP) was launched by the Department for Business, Energy and Industrial Strategy (BEIS) to deliver £320m of government support to individual heat network projects across England and Wales. This funding will be delivered over a three-year period, leveraging around £1bn of private and other capital in order to provide much needed scale to this market. The impact of this funding should be felt across the UK, supporting jobs in engineering, construction, energy management design across the towns and cities where projects are deployed.

## WHAT IS A HEAT NETWORK?

"District heat network means the distribution of thermal energy in the form of steam, hot water or chilled liquids from a central source of production through a network to multiple buildings or sites for the use of space or process heating, cooling or hot water."

The Heat Networks (Metering and Billing) Regulations 2014

## WHAT ARE THE BENEFITS OF A HEAT NETWORK?

Heat Networks have been proven around the world to be a reliable, cost-effective and low carbon means of providing heat, yet just 2% of UK buildings are heated in this way. By supplying both heating and cooling to buildings from the same centralised source, they have scope to service the heat requirement of just two buildings or an entire city, avoiding the need for individual boilers or electric heating in every building.

## WHO IS TRIPLE POINT HEAT NETWORKS INVESTMENT MANAGEMENT?

BEIS has appointed Triple Point Heat Network Investment Management to role of Delivery Partner for the Heat Networks Investment Project. We are comprised of a group of professional firms with a demonstrable track record of engaging with investors and supporting project developers to deliver a wide range of infrastructure projects. From the outset we are clear on the need to ensure that projects are well-designed, commercially viable and beneficial for consumers.

We are committed to a vision, shared with BEIS, to create a transformed, self-sustaining and trusted market which offers affordable and reliable low carbon heat. This will be delivered through projects which are investable, strategic and future-proofed.

Large scale commercial investment is critical to the development of this market and this will be a major area of focus for the Delivery Partner team as we seek to create the right conditions and connections between



project sponsors, developers and investors from the UK and around the world who may be able to support them.

## HOW DO I APPLY?

The two-stage application process first invites applications to submit a pre-application form. This ensures that projects applying for HNIP funding meet the eligibility criteria before progressing further with their application. Applicants are encouraged to apply for pre-application as early as possible so they can address any shortcomings necessary before they re-apply.

Successful pre-applicants will then be invited to submit a full application where their project will be assessed to establish which best demonstrate value for money and contribution to the aims and objectives of the HNIP scheme, ensuring that only the best quality projects receive HNIP funding.

## HOW WILL MY PROJECT BE ASSESSED?

HNIP will be operated across quarterly funding rounds each financial year. At full application stage, projects will be assessed against HNIP score criteria to determine which projects, within that same funding round, best demonstrate value for money and contribution to the aims and objectives of the HNIP scheme.

The outcome of the assessment process will then be submitted to the HNIP Investment Committee for a final decision on which applications are to be awarded funding within that funding round. The HNIP Investment Committee will convene for each funding round to appraise and consider applications received in the preceding period to ensure fair competition. If projects are unsuccessful, they will be given feedback and are encouraged to reapply at a later date.

## GUIDANCE AND SUPPORT

BEIS and Triple Point Heat Networks Investment Management have jointly published Application Guidance to help applicants understand the application process from start to finish, including how the scheme will operate, the eligibility criteria, how applications are to be made and how they will be scored and assessed.

This resource and other useful information can be accessed online at [www.tp-heatnetworks.org](http://www.tp-heatnetworks.org)

Experienced Business Development Management (BDMs) are available to support applicants prior to and during the pre-application stages of the application process. Applicants are actively encouraged to engage with BDMs at the earliest opportunity to derive maximum benefit.

To speak to one of our BDMs, please email: [enquiries@tp-heatnetworks.org](mailto:enquiries@tp-heatnetworks.org)



# Providing Energy Services for the Public Sector

WME are a leading purchasing organisation with over 25 years experience specialising in managing energy contracts for the public sector.

Did you know...

WME provides energy to 1,600 schools and academies



Local Authorities



Colleges



Blue Light Services



Schools & Academies



NHS



District & Town Councils

## We offer various energy frameworks



Flexible Gas & Electricity



Fixed Price Gas & Electricity



Oil, LPG & Water



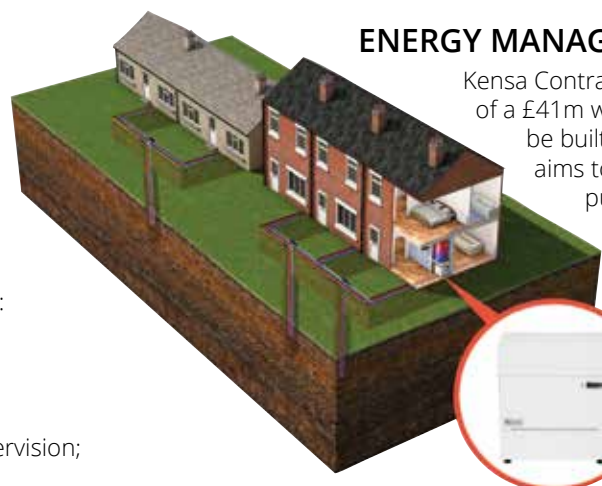
# KENSA CONTRACTING

**K**ensa Contracting – [www.kensacontracting.com](http://www.kensacontracting.com) – are award-winning heat network delivery partners and contractors specialising in large-scale ground source heat pump programmes in the UK. Offering unrivalled experience and expertise, Kensa Contracting delivers a complete solution including:

- Design;
- Specification;
- Project management;
- Householder liaison;
- Specialist sub-contractor supervision;
- Equipment supply;
- Commissioning;
- Support with access to subsidies.

Kensa Contracting is renowned for its innovative Shared Ground Loop Array systems deployed in social housing retrofits and social and private new build developments.

With direct supply from sister company Kensa Heat Pumps, the UK's dedicated manufacturer and number one supplier of ground source heat pumps, Kensa Contracting delivers proven, robust and reliable systems from simple tried-and-tested to ambitious and innovative applications.



## ENERGY MANAGEMENT:

Kensa Contracting is a consortium partner of a £41m world-first Energy Superhub to be built in Oxford in 2020. The project aims to reduce emissions and improve public health by accelerating a switch to electric vehicles, and decarbonising heating from homes and vehicles; it will be a model for cities around the world to cut carbon and improve air quality. Oxford's Energy Superhub will see smart software manage a new connection to the National Grid's transmission

network which will service the largest hybrid battery energy storage ever deployed, ultra-rapid electric vehicle charging stations, and c.300 Kensa ground source heat pumps. The project will demonstrate the electrification and decarbonisation of heating and vehicles is part of the solution to reducing the strain on the National Grid, and will create a powerful energy system that is fit and ready for a low carbon low cost future.

## CASE STUDY:

**T**he London Borough of Enfield is the location of England's largest district ground source heat pump system, courtesy of a collaboration between Enfield Council, ENGIE, and Kensa Contracting.

400 flats over eight tower blocks had their electric night storage heaters removed and replaced with individual Kensa Shoebox heat pumps inside each flat connected to the largest collection of 'district' arrays of its kind.

Kensa's pioneering ambient temperature heat network features 16 shared ground loop array systems serving the eight tower blocks. Each system will typically consist of clusters of eight boreholes serving individual heat pumps installed within the flats of half a tower block.

This system architecture allows each resident to select their own preferred energy supplier to access the best available electricity tariff. The shared nature of the ground array design also reduces drilling costs and ensures funding through the Energy Company Obligations (ECO) Scheme as well as the Government's Non-Domestic Renewable Heat Incentive (RHI), securing Enfield Council quarterly payments for 20 years.

With typically two thirds of the heating sourced from the ground, the borehole installations will provide an infrastructure which will deliver an affordable heat and hot water solution for the Enfield tower blocks for generations, whilst immediately cutting residents' energy bills by 30-50%.



## Kensa & Enfield at the Public Sector Energy Event, 30th April:

**"How to use district ground source heat pumps to reduce carbon emissions in social housing new build"**

Kensa will be sharing advice and experiences on the role of heat pumps in decarbonising current and future housing, with a particular focus on communal shared ground loops with Kensa heat pumps, as utilised in their recent collaboration with ENGIE and Enfield Council in London.

# IMPROVING THERMAL PERFORMANCE WITH SECONDARY GLAZING

**B**eing more thermally efficient and wasting less energy has become very important, not only on an environmental level, but also economically. Secondary glazing is a well-established method of greatly improving insulation within existing buildings.

As the leading specialist in secondary glazing, Selectaglaze has a range of tested products that can reduce the U-value of a building to around 1.8 when coated in low emissivity glass. With the Pilkington Spacia glass in the S25 unit, it can be reduced down even further to around 0.8.

All units are designed and expertly installed with brush seals, or compression seals for hinged panels, to ensure the tightest fit. This dramatically reduces air infiltration to help eliminate uncomfortable drafts. Over the years Selectaglaze has worked on numerous public and private buildings to help raise their energy efficiency.

Wiltshire County Council had a major refurbishment with part of the requirements to reduce energy consumption by 40%. More than 270 bespoke secondary glazed frames were made and installed across the estate; some casements measuring 3.5m (h) x 1.6m (w). As a result of the renovation, it was the first project in the UK to receive a BREEAM 'Excellent' rating.

Braintree Town Hall, a Grade II\* Listed building, faced the challenge of making its building more energy efficient and comfortable for those who worked there and used it. The single pane windows did little to keep draughts out and heat in, as well as the noise from the opposing town square. Thermographic imaging was carried out pre and post installation of secondary glazing which shows a marked improvement. The estimated savings at the Town Hall is at least 12% of their combined heating bill. In addition, the rooms are much quieter for

private functions, as secondary glazing is the most effective method of sound proofing heritage buildings.

Established in 1966 and a Royal Warrant Holder since 2004, Selectaglaze offers RIBA approved CPDs as well as a free technical advisory service.

For further information, please contact Selectaglaze on **01727 837271** Email: [enquiries@selectaglaze.co.uk](mailto:enquiries@selectaglaze.co.uk) or visit: [www.selectaglaze.co.uk](http://www.selectaglaze.co.uk)



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Secondary Glazing

Seamless integration giving you the added benefit of:

**WARMER**

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Wiltshire County Hall - BREEAM 'Excellent'

- Exemplary thermal retention and draught insulation creating a more comfortable environment
- Helping projects achieve BREEAM 'Excellent' standards
- The most effective method of sound proofing
- Reversible adaptation for Listed and heritage buildings

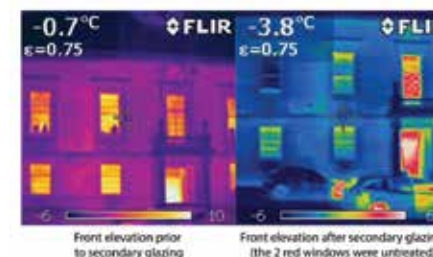
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## MORRISON UTILITY SERVICES

Morrison Utility Services is the UK's largest, dedicated utility services provider. A part of M Group Services, the Groups delivers a range of essential infrastructure services within the utilities sectors (electricity, gas and water), transport, telecom and data capture in the UK and Ireland, providing national coverage with offices throughout the UK, a workforce and management team in excess of 8,000 with an annual turnover of over £1 billion.

Through its Energy Services, Morrison Utility Services has now successfully delivered numerous independent connections, private networks and energy storage projects. We passionately believe that the key to success in our business is not just technical competence, but an understanding of our customer's needs and delivering a 'value adding' service. This is why we put the customer at the heart of everything we do.

We are highly experienced in designing, constructing and commissioning large scale, high voltage connections for our clients, to adoptable Distribution Network Operator (DNO) standards and for Private Wire Networks. We are fully accredited by Lloyd's Register (NERS) to provide the design, construction and delivery of contestable electrical

connections up to 132kV to the specification and quality required by the DNO and for Private Wire Networks.

Where a project with a significant electrical aspect also requires either a gas or water connection, we can also provide design and installation services. Morrison Utility Services has a proud history of working with utility asset owners and our portfolio includes large industrial multi-utility installations including alterations or diversions to existing equipment, for both network connections and private networks.

Our aim is to provide our clients with an unrivalled customer experience by understanding their requirements and delivering a service based around quality, speed and value-for-money.

Through a dedicated single point of contact, our highly trained and skilled workforce is focused on delivering a complete turnkey service in design, project management, construction and commissioning. Ensuring that clients receive the simplest possible interface from initial enquiry through to energising their supply. [www.mgroupservices.com](http://www.mgroupservices.com)

**Morrison Utility Services –  
Delivering what we Promise.**



# Energy Elephant

Make better energy decisions

## EnergyElephant for Universities

Driving down energy costs, reducing management time, and leading the way towards a carbon zero future

EnergyElephant's cutting edge SaaS systems automate your energy data uploads and analysis - by automatically pulling in data from multiple sources, giving one dashboard and a complete oversight of your campus



**Cut your costs.** One client achieved a cost saving of €75,000 after using EnergyElephant for 1 hour



**Reduce time spent on energy audits** by automating energy data upload and analysis



**An ongoing energy management tool**, giving you live oversight of operations and reducing time spent on energy management by up to 90%



**A single point of truth for all data**, and helping drive your sustainability strategy towards becoming carbon zero

**Campus managers can try out EnergyElephant for free for 14 days - just upload your data and see how simple it is!**

**To access, follow this link:** <https://energyelephant.com/uploadBills>

**For more information on EnergyElephant, to arrange a call/meeting, or online demo - please contact us on:**

**[sales@energyelephant.com](mailto:sales@energyelephant.com)  
+353-83-894-611-611**

[www.energyelephant.com](http://www.energyelephant.com)



# WE ARE THE SUSTAINABILITY ADVISER FOR LEADERS OF THE WEST MIDLANDS

Sustainability West Midlands is the sustainability champion for the West Midlands as designated by government. We are a not-for-profit company that works with our members in the business, public and voluntary sectors. Our role is to act as a catalyst for change through our advice to leaders, to develop practical solutions with our members and share success through our communications.

Our board is private sector led with cross-sector representation; and is supported by our team of staff and associates.

Our customers like our independence, our role as a hub of cross-sector good practice networks, and our drive to deliver a clear vision to create a better West Midlands.

In addition to the valuable time, expertise, and event hosting of our many members, we are also grateful for a range of financial investors that enable us to mobilize this priceless resource. Find out how we can make your current strategic or corporate responsibility investment go further.

## BECOME A SWM MEMBER

Further information

- Promotion of your brand and service across our extensive communications channels.
- Promotion of your case studies and opportunities to raise your profile at our events.
- Free place at our Annual Conference and member-exclusive Summer Social, free use of our meeting rooms and discount of consultancy.

**Annual membership costs between £50 and £1,000+VAT depending on your size and sector.**

"We are proud to be a member of SWM and a partner in its activities and they play an invaluable role in championing the sustainability agenda at the highest level within the West Midlands" City of Wolverhampton Council

"Collaboration with other SWM members presents the perfect opportunity to develop new and innovative solutions that deliver shared benefits and enhances our reputation as a world leading University" University of Birmingham

"SWM has helped me make some very good connections that have resulted in exciting business discussions that are evolving into commercial opportunities for my company" Ørsted

## SPONSOR OUR NETWORKS AND EVENTS

Our networks

- Influence experts by sponsoring our networks for a wide range of sectors.
- Exhibit at our high-profile events and present your work and case studies.
- Promote your branding and case studies on all networks and event related media.



**Our sponsorship offer is flexible depending on your budget and who you want to engage with.**

"By working with SWM and contributing to their events through funding and sponsorship we can share our message, engage with key stakeholders and demonstrate leadership in the sector" Severn Trent Water

"The SWM Annual Conference was by far the best and most informative event I have attended" Groundwork West Midlands

## WE OFFER CONSULTANCY SERVICES

SWM Case Studies

- Independent advice on your sustainability strategy.
- Workshops to influence internal or external stakeholders.
- Production of independent advice on energy, waste, resilience and other areas of sustainability.
- Programme delivery and project management.

**As a not-for-profit organisation, all our consultancy fees go into making the West Midlands a more sustainable place.**

"The input of SWM has been huge in helping set our priorities" Andy Street, Mayor, West Midlands Combined Authority

"The work SWM has done for us has been fundamental in brokering relationships with LEPs and helping us to strengthen our hand when offering support" Energy Systems Catapult

"It was important to us to work with an independent organisation like SWM who were able to provide honest and realistic recommendations based on their extensive research" Department of Business, Energy and Industrial Strategy

## KEEP IN TOUCH

To keep up to date with SWM's work and services, you can;

- Visit [www.swm.org.uk](http://www.swm.org.uk)
- Subscribe to our newsletter
- Email us at [enquiries@swm.org.uk](mailto:enquiries@swm.org.uk)
- Call us on **0121 237 5890**

We look forward to hearing from you to understand how we can work together in the future!

# VINCI FACILITIES ENERGY & WATER MANAGEMENT

Visit VINCI Facilities Energy & Water Management on Stand 13 at the Public Sector Energy

Event to see how you can **SAVE MONEY & REDUCE RISK** with our holistic approach to energy & water management, reduction and compliance.

As specialists in the built environment, VINCI Facilities provide tailored solutions through their Facilities Management, Energy and Water Management and Building Solutions businesses. We are committed to delivering technical and organisational expertise, and provide customers with a diverse range of solutions designed to meet the challenges of modern organisations.

We are proud to offer a comprehensive range of innovative services and solutions to **reduce energy, carbon & water cost, and risk**, tailored to our customer's needs. These services include:

- Embedded Energy and Water Managers – an expert to work with your organisation
- Utilities Bureau services – turning data into actionable information
- Utilities procurement
- Historic invoice review and cost recovery
- Awareness, training and behaviour change programmes
- Improvement/upgrade projects – full options assessments:
  - \* Unbiased technical options development
  - \* Cost/benefit analysis and development of commercial models
  - \* Flexible approach - turnkey delivery or advisory role
- ISO50001, ESOS, MEES, EPC, DEC, TM44 compliance
- Alternative energy solutions
- Electric Vehicle Charging assessments & installations

As a part of the wider VINCI worldwide brand, we are proud to demonstrate an unparalleled breadth and depth of technical expertise in the built environment, enabling us to integrate our energy, facilities and asset management activities to deliver long-term value and develop successful partnerships with organisations of every size in both Public & Private sectors, from **local authorities, schools, hospitals, social housing, and government departments**, through to utilities, retail, manufacturing, rail and leisure.

VINCI Facilities' Energy & Water Management business has grown out of a desire to continue to provide exceptional



services to our customers and to mitigate the growing influence of utilities and carbon in a modern business. Our Energy and Water Management services and activities are underpinned by an in-house Utilities Bureau, based in Manchester. The Bureau takes data from a customer's portfolio to analyse utilities consumption, trends and alarms that may indicate performance issues, providing valuable information and insight. This enables us to take measures to rectify the problems, bringing about savings and avoiding excessive costs or, rectifying more acute issues, such as water leaks or exceeding electrical supply capacity. The Bureau also produces multiple levels of utilities reporting, including management summaries, PFI contractual performance, and operational reviews, turning raw data into information that can be acted upon to improve performance.

The VINCI name symbolises the very best in sustainable innovation, creativity and technological mastery. Through our One Team ethos, VINCI is committed to developing an open, transparent, trust-based partnership with our customers, stakeholders, and supply chain partners. Our vision is to be regarded by all our stakeholders as the leading and trusted expert in the responsible management, operation and adaptation of the built environment, with a mission to create and maintain great places to live and work, listening to what customers need and providing innovative solutions that add value, delivered by excellent people who care.

We believe that we offer excellent, industry-leading sustainable solutions and services, but don't just take our word for it;

- VINCI Facilities is proud to be benchmarked annually as leaders in the Sustainable FM Index, and demonstrate an integrated approach to sustainability from strategy to operation.
- VINCI Facilities Energy & Water Management are delighted to have been recently awarded 'Company of the Year' by Sustainability Today magazine.

If you would like to find out more information about VINCI Facilities' services, including Energy & Water Management and Utilities Bureau Services, head to Stand 13 or use the contact details below.

Paul Lynch, Head of Energy & Water Management  
[paul.lynch@vincifacilities.co.uk](mailto:paul.lynch@vincifacilities.co.uk) [www.vincifacilities.com](http://www.vincifacilities.com)



# PUBLIC SECTOR FM EVENT RICOH ARENA - COVENTRY

**\*\* BOOK BEFORE MAY 31<sup>st</sup> TO GET EARLY BIRD RATE & BENEFITS \*\***

The first in a series of regional Public Sector FM Events will kick off at the Ricoh Arena in Coventry on the 22 October 2019. We have chosen this venue because of its central location, ease of access and experience in hosting everything from smaller roadshows to international trade events.

If your company is involved in the following areas, this event presents a fantastic opportunity to reach a captive audience of Facilities Managers from the Public Sector - **Building & Refurbishment, CAFM, Catering & Vending, Cleaning & Hygiene, Energy Management, Fire & Hazard Protection, Health & Safety, HVAC, Intelligent Buildings/BMS, Lighting, Security & Access Control, Sustainability, Waste Management & Recycling.**

## WHY EXHIBIT

- The best way to meet top quality Facilities Managers from within Government, Local Authorities, NHS, Schools & Universities, MOD and Housing Associations in a relaxed and intimate environment
- Highly targeted & cost-effective – cheaper than many journals will charge for a full page of advertising
- Free lunch, tea and coffee
- Full delegate list, including no-shows (in accord with GDPR regulations)
- Full page advertisement/advertorial in our event guide given to all visitors
- Full page advertisement within Building & Facilities Management magazine (only available for early bird bookings)
- Your details on our website page for this event

## VISITOR INFORMATION

We are expecting 150-250 FM professionals from all areas of the Public Sector, most of whom will be responsible for multiple sites.

## STAND DETAILS

- All stands are 3m wide x 2m deep. Floor space only - no shell scheme. If larger stand required please check.
- Exhibitors to supply own stands (roller banners/pop up stands etc).
- Table and two chairs supplied.
- Electric supply limited - check for details

## STAND COSTS

3m x 2m Stand - Space only --- **£750.00 + VAT - EARLY BIRD RATE**

## SPONSORSHIP

Sponsorship opportunities are available including Headline Sponsorship of the event. Please enquire for details.

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