



Complete Mechanical and Electrical Services

Building Services Engineering

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Constructionline
Gold Member

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Welcome

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Executive Summary

Vital Synergy is a trusted provider of end-to-end building services engineering, delivering mechanical and electrical systems that enhance performance, reduce energy costs and futureproof estates.

We partner with organisations across commercial, industrial, public sector, healthcare and education environments to design, install and maintain high-quality infrastructure that meets the evolving demands of energy efficiency, sustainability and compliance.

From initial feasibility to consultancy and design through to installation, facilities management and ongoing maintenance, our full turnkey approach ensures seamless delivery and long-term value. Our expertise spans HVAC systems, low-carbon heating, energy centres, district heat networks building management systems and integrated electrical services.

Driven by engineering excellence with purpose, we help clients reduce energy consumption, cut carbon emissions and support carbon reduction across their estates without compromising operational performance.

As a single, reliable partner, Vital Synergy provides the confidence, capability and insight organisations need to create efficient, compliant and future-ready buildings.

From comprehensive installations to refurbishments and planned & reactive maintenance, we bring uncompromising quality and advanced engineering, guiding each project from concept to completion and beyond

What we do

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Our Services

End-to-end mechanical and electrical capability from a single, accountable partner. Across fourteen disciplines, we design, install, commission and maintain the systems that keep estates running efficiently and safely.

Plumbing

Hot & cold water, drainage and sanitary services across every building type.

Ventilation

Mechanical ventilation and air handling for healthy, efficient indoor environments.

Cooling

Comfort and process cooling, chillers, VRF and air conditioning systems.

Heating & district heat networks

Boilers, heat pumps, CHP combined heat & power and low-carbon heat sources.

Sprinkler Systems

Wet, dry and pre-action sprinkler installations for life safety and property.

Gas & Oil Systems

Commercial and industrial gas and oil distribution, storage and combustion.

Hydrogen

Hydrogen-ready installations, fuel-switching feasibility and trial deployment.

Renewables

Heat pumps, solar PV and decarbonisation retrofits across existing estates.

Data Centres

Critical cooling, power resilience and white-space mechanical fit-out.

Lighting and power

LED upgrades, lighting controls and emergency lighting. Sockets, EV chargers and incoming infrastructure

Security and Data Systems

Access control, MAG locks, CCTV and intruder detection integrated with BMS. Internet & phone data.

Controls & BMS

Building management systems, automation, energy monitoring and remote access control.

Design & Consultancy

Feasibility, design, surveys and tender support across M&E projects

Maintenance

Planned preventive cover, reactive response and statutory inspections.

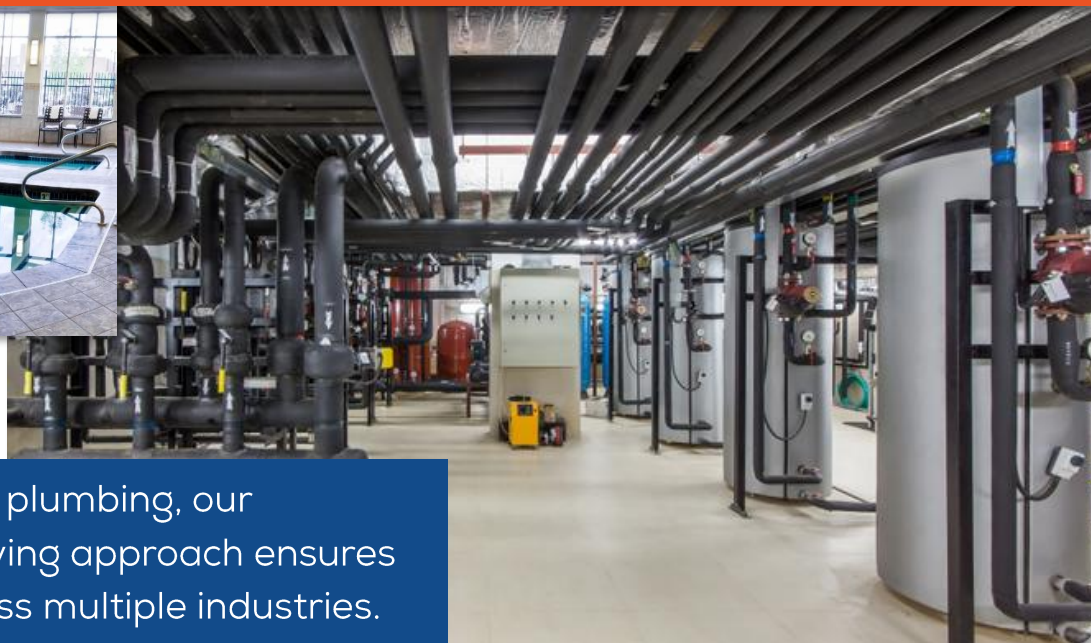
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Plumbing

Our plumbing services provide complete design, installation and lifecycle support across commercial, industrial and large domestic environments. Our capability includes above and below ground drainage, hot and cold-water services, boosted systems, sanitaryware installation, plant rooms, swimming pools, water treatment, leak detection, testing and compliance. Delivered as standalone packages or as part of fully integrated M&E projects, our plumbing solutions are engineered to ensure safety, efficiency, reliability and long-term operational performance.



Expert installation of hot and cold-water systems, ensuring reliable, efficient and safe water supply.



As specialist contractors in plumbing, our collaborative, problem-solving approach ensures exceptional outcomes across multiple industries.

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Ventilation

At Vital Synergy, we deliver specialist ventilation solutions designed to support safe, efficient and compliant environments across commercial, industrial and large domestic settings. Our capabilities include the design, installation, upgrade and maintenance of integrated ventilation systems including supply and extract ventilation, air handling systems, ductwork distribution, heat recovery, local exhaust ventilation and specialist air movement solutions. Our services integrate seamlessly with wider M&E and HVAC infrastructure, supporting balanced airflow, indoor air quality, temperature control and energy efficiency across occupied and operational environments.

Comprehensive HVAC and ventilation services, providing efficient climate control and optimal air quality for any environment.



Specialist ventilation design and installation, tailored to keep every environment healthy, comfortable and energy-efficient.

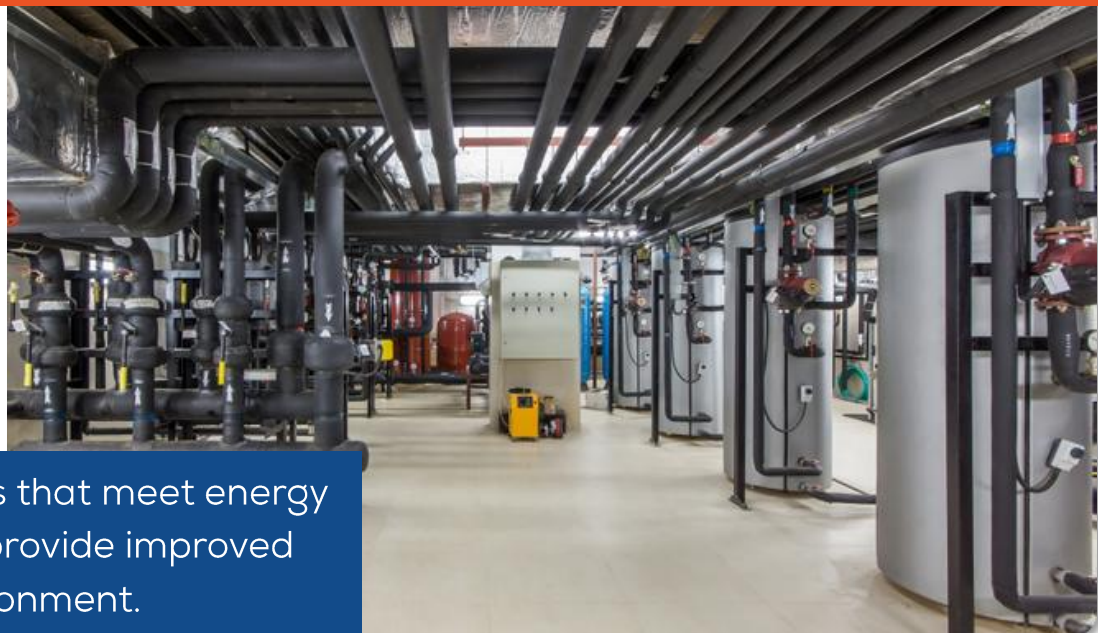
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Cooling

We provide air conditioning solutions for commercial sectors such as airports, hospitals, schools, offices, stadiums and beyond. We handle everything from consultation, design, installation, and commissioning right through to planned maintenance, ensuring your client's space stays comfortable and energy-efficient. We assess each environment to deliver the most suitable solution, from split and multi-split systems to advanced VRV/VRF, ducted, and chilled water systems for larger facilities. Our F-Gas certified engineers deliver high quality installations with minimal disruption, supported by flexible scheduling. Following installation, we carry out full commissioning, provide all documentation, and ensure a smooth handover with user guidance to optimise system performance.



Lasting comfort starts with our expert, reliable and safe air conditioning installations using the most efficient equipment.



Complete cooling solutions that meet energy efficiency standards and provide improved guest comfort in any environment.

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Heating

At Vital Synergy, we deliver fully integrated heating solutions designed to support performance, efficiency and operational resilience across commercial, industrial and large domestic environments. Our capabilities include the design, installation, upgrade and maintenance of heating systems including commercial boiler plant, low temperature hot water systems, pressurisation units, pipework infrastructure, heat interface systems, renewable heating technologies and associated controls integration. Working as part of wider M&E and HVAC packages, we develop heating solutions that align with building usage, energy demands and compliance requirements, ensuring reliable temperature control, system efficiency and long-term operational performance.

Integrated heating solutions engineered for comfort, efficiency and long-term operational resilience. From radiators, under floor heating, & VRF systems.



Innovative and effective heating systems and solutions, designed to meet the unique needs of buildings across all sectors.

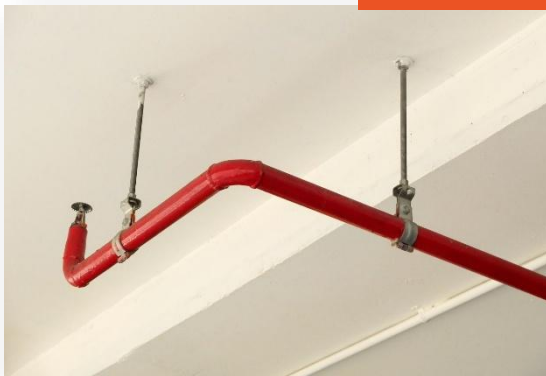
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Sprinkler Systems

We offer fire sprinkler solutions designed to support life safety, asset protection and regulatory compliance across commercial and industrial environments. Our expertise includes the design, installation, modification and maintenance of wet, dry and pre action sprinkler systems, together with associated pump sets, tanks, valves, controls and pipework infrastructure. Working as standalone packages or as part of integrated M&E and HVAC projects, we provide testing, commissioning, inspections and system upgrades in line with relevant British Standards and insurer requirements. Our sprinkler solutions are engineered to deliver reliable fire protection, operational resilience and long-term system performance.



Delivering reliable fire protection and compliance for commercial and industrial environments.



Professional fire sprinkler installation and maintenance service.

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Gas & Oil Systems

At Vital Synergy, we deliver specialist gas and oil system solutions across commercial, industrial and specialist environments, supporting projects from initial design through to installation, commissioning, servicing and long-term asset management. Our expertise covers natural gas, LPG and oil-fired systems, including commercial boiler plant, distribution pipework, pressure regulation, metering, bulk storage infrastructure, controls integration and associated safety systems. Whether delivered as standalone specialist works or integrated within wider M&E and HVAC packages, our gas and oil solutions are developed to provide safe, compliant and efficient systems that support long term operational resilience and performance.

Precision and expertise to every gas and oil installation.



Taking a fabric first approach, we ensure all systems are high performance built for reliability.

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Hydrogen

Our hydrogen services provide specialist design, installation and lifecycle support for emerging low-carbon energy applications across commercial and industrial environments. Our capability includes hydrogen-ready infrastructure, production and storage interfaces, distribution pipework, pressure regulation, controls and safety systems, integration with plant and building services, testing, commissioning and compliance with evolving standards and best-practice guidance. Our hydrogen solutions are engineered to prioritise safety, technical integrity, reliability and long-term operational performance.



Future ready begins with our specialist installation of clean, safe and efficient hydrogen systems.



Pioneering a greener tomorrow, we deliver safe and efficient hydrogen systems built for the future.

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Renewables & Decarbonisation

We support clients in delivering decarbonisation strategies and renewable energy solutions that improve building performance, reduce operational carbon emissions and support long term sustainability objectives. Our capabilities include the design, installation and integration of renewable technologies including air source and ground source heat pumps and solar PV systems. Working across both new build and existing assets, we develop practical, fully coordinated solutions that align with evolving environmental targets, energy efficiency requirements and future building demands.

Helping organisations futureproof their estates with the latest renewable technologies that will power what's next.



Renewable options taking a fabric first approach, lowering costs not standards.

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Data Centres

Our data centre services provide specialist design, installation and lifecycle support for mission-critical environments. Our capability includes resilient power and electrical infrastructure, mechanical cooling systems, containment and airflow management, fire protection interfaces, monitoring and control systems, and compliance with relevant standards for availability, security and operational continuity. Our data centre solutions are engineered to ensure high availability, energy efficiency, reliability and long-term operational resilience.



Supporting the growth and roll out of data infrastructure for maximum reliability.



Critical systems demand the highest standards; we install and build for maximum uptime.

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Lighting & Power Infrastructure

Our lighting services provide complete design, installation and lifecycle support across commercial, industrial and large domestic environments. Our capability includes internal and external lighting, architectural and feature lighting, emergency lighting, controls and smart lighting systems, energy-efficient upgrades, testing, inspection and compliance. Delivered as standalone packages or as part of fully integrated M&E projects, our lighting solutions are engineered to enhance safety, efficiency, performance and long-term operational sustainability.

From energy-efficient LEDs to full lighting system installations.



Delivering bright, reliable and cost-effective solutions, tailored to your needs.

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Security & Data Systems

Our Security & Data Systems division delivers intelligent, integrated solutions that protect people, assets and critical infrastructure while ensuring reliable connectivity across your organisation. We provide the design, installation, commissioning and ongoing maintenance of security and data networks for commercial industrial educational and public sector environments.

Our capabilities include CCTV surveillance, access control, intruder alarms, intercom systems, perimeter protection, structured cabling, fibre and data networks, Wi-fi infrastructure and integrated building technologies. By combining security and connectivity into a single coordinated solution, we help clients improve safety, operational efficiency and business resilience.



**Keeping your people,
property and assets safe.**



Protecting what matters most, we
install advanced security systems.

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Controls & BMS

Our controls and Building Management System (BMS) services deliver intelligent building performance through the design, integration and optimisation of automated control systems. We provide BMS design consultancy, controls installation, system integration, commissioning, and ongoing support, enabling clients to monitor, manage, and optimise HVAC, mechanical, and electrical assets from a single platform. Our solutions are designed to improve energy efficiency, operational reliability and occupant comfort while providing clear data insights to support long-term performance and compliance.

Intelligent Building Management Systems that monitor and optimise energy usage in real time, reducing costs and energy consumption.



Our BMS systems are bespoke to your building management needs. From automation to analysing data, we can create your own design.

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Design & Consultancy

Our design department provides mechanical and electrical design and consultancy services to support projects from early concept through to detailed design and delivery. Our in-house engineering expertise covers system design, technical specification, feasibility assessments, performance optimisation and compliance guidance, ensuring solutions are practical, efficient and fully aligned with project objectives. Working closely with clients, consultants and project teams, we develop coordinated designs that support buildability, operational performance and long-term asset reliability across commercial, industrial and domestic environments.

From initial concept to detailed CAD design, our team create systems tailored to your project.



Full turnkey solution with our in-house design team.

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Planned & Reactive Maintenance

Our planned maintenance programmes are designed to reduce risk, optimise performance and maintain compliance, while our reactive response services provide rapid support to minimise downtime and operational disruption. Working across commercial, industrial environments, we deliver a proactive, engineering-led approach focused on system reliability, energy efficiency and long-term asset performance.



From scheduled planned maintenance to rapid reactive response, our dedicated team keep your systems running safely, efficiently and at peak performance.



A dedicated planned and reactive maintenance team, we have always got you covered.



St Peter's Health Centre, Burnley

MEP Refurbishment

Project Value

£600k

Delivered in 36 weeks

Modern Infrastructure for High-Performance Healthcare Facilities

What We Delivered

The St Peter's Health Centre, Burnley project was delivered as a comprehensive refurbishment programme, incorporating the full strip-out and replacement of mechanical, electrical and public health services, followed by the installation of new Low Temperature Hot Water (LTHW) distribution systems with high-performance pipework. The works also included the installation of radiant panel heaters, a new intelligent nurse call system, upgrades to power, lighting and controls, and enhancements to hot and cold-water systems with new sanitaryware installed throughout.

The following phase focused on the integration of modern building systems, including Mechanical Ventilation with Heat Recovery (MVHR) with associated fire dampers, extension of BMS controls, and upgrades to data infrastructure. The final stage incorporated full testing, ductwork cleaning, water treatment and commissioning, delivering a fully integrated, compliant and high-performing healthcare environment ready for handover.

Key Benefits

1. A complete M&E refurbishment that establishes a modern, fully compliant healthcare environment Greater reliability and performance achieved by replacing ageing infrastructure and adding BMS controls
2. Upgraded LTHW distribution and insulated pipework that raise energy efficiency and prolong system life
3. Integrated nurse call and building systems that strengthen patient safety and daily operation
4. Better indoor air quality and environmental control delivered through MVHR ventilation systems

Client Testimonial

"It was a pleasure to have Vital Synergy support the refurbishment works at St Peter's Health Centre. The team understood the importance of working carefully within a live healthcare environment and kept disruption to patients, staff and services to a minimum. The new systems have helped improve the comfort, reliability and efficiency of the building, giving us a much more modern facility for the community." – Project Manager



Carden Park Hotel

Commercial M&E Package

Project Value

£1.5m

Delivered in 40 weeks

High-Performance Integration for a Premier Hospitality & Leisure Destination

What We Delivered

The Carden Park project involved the upgrade and optimisation of key mechanical systems within a large, operational hospitality estate, incorporating the strip-out of ageing plant and the installation of modern heating and plantroom infrastructure to improve overall system performance and efficiency. The works included enhancements to the existing distribution systems, upgrades to pipework and insulation, and the integration of new plant and controls to provide a more reliable and energy-efficient solution across the site.

The following phase focused on the integration and commissioning of upgraded systems, including refinements to control strategies and the extension of building management system (BMS) functionality to optimise performance across multiple areas. All works were carefully coordinated within a live hotel environment, incorporating full system testing, balancing and commissioning to deliver a stable, efficient and high-performing energy solution that supports ongoing operational demands.

Key Benefits

1. Improved energy efficiency through upgraded plant and optimised system performance
2. Enhanced reliability and resilience of heating infrastructure across a large operational estate
3. Minimal disruption to hotel operations through carefully coordinated works in a live environment
4. Improved system control and performance through integration of advanced BMS strategies

Client Testimonial

"The heating and ventilation upgrades by Vital Synergy have made a huge difference to the comfort of our guests. Not only have we seen a reduction in our energy bills, but the hotel atmosphere is much more pleasant as well. The team delivered a seamless installation with minimal disruption, and we couldn't be happier with the results." – Services & Maintenance Manager



Little Lever High School

Commercial M&E Package

Project Value

£1.1m

Delivered in 30 weeks

From Boiler Upgrade to Smart Climate Control - A Two-Phase Transformation

What We Delivered

The Little Lever High School project was delivered in two phases, beginning with the full design, installation and commissioning of a 1MW high-efficiency gas boiler system complete with LTHW distribution, the installation of high efficiency fan convactor heaters with localised control systems for each classrooms / area. Installation of a new gas-fired hot water system.

The second phase incorporated works for the new extension, introducing modern technologies, including a Mitsubishi HVRF system to provide heating and cooling to new areas, working in tandem with a centralised MVHR ventilation system, to create a fully integrated efficient and high-performing building environment.

Key Benefits

1. Delivery of a high-efficiency heating system, reducing overall gas consumption and running costs
2. Improved indoor air quality through mechanically controlled MVHR ventilation
3. Enhanced thermal comfort through integrated heating and cooling systems across new spaces
4. Reduced carbon footprint through modern, energy-efficient plant and system design

Client Testimonial

"The new system has improved comfort across the building and will help us reduce our energy costs while working towards a more sustainable future. Thank you to all involved" – School Business Manager



Hollins High School

Large Commercial M&E Package

Project Value

£600k

Delivered in 22 weeks

Modernising Heating Infrastructure for Consistent, Efficient Learning Environments

What We Delivered

The Hollins High School project was delivered as a structured upgrade programme, beginning with the strip-out of existing heating infrastructure and the installation of new LTHW distribution systems, including modern emitters, upgraded pipework and enhanced insulation to improve efficiency and system performance. The works also incorporated the integration of new controls across all areas, providing improved temperature regulation and consistency throughout the building, while upgrading key services to support the demands of a multi-storey educational environment.

The following phase focused on the optimisation and integration of systems across the site, ensuring full connectivity and improved operational control through upgraded system strategies. All works were delivered within a live school environment, incorporating testing, balancing and commissioning to provide a fully integrated, reliable and energy-efficient heating solution designed to support long-term performance.

Key Benefits

1. Improved energy efficiency through the installation of modern heating systems and upgraded distribution infrastructure
2. Enhanced temperature control and consistency across all floors with integrated system controls
3. Increased reliability through the replacement of ageing plant and infrastructure
4. Minimal disruption to operations through delivery within a live school environment

Client Testimonials

"It was a proud moment to have Vital Synergy come into our school as the MD is a former pupil. It was great to showcase this to the families and students and wider community and the alumni. The new system has helped us reduce our energy costs & help us work towards net zero. Thank you Dave & Team" – Deputy Head



Clitheroe Grammar

Large Commercial M&E Package

Project Value

£1.1m

Delivered in 19 weeks

Driving Efficiency and Control Through Advanced Boiler and BMS Integration

What We Delivered

The Clitheroe Grammar School project was delivered as a targeted infrastructure upgrade, beginning with the replacement and upgrade of the site's heating and gas systems, including the installation of a high-efficiency cascade boiler plant with associated controls, bespoke BMS integration and safety components. The works also included the installation of a new medium-pressure gas meter with AMR capability, integrated into the existing system to support increased load and improve overall performance, alongside upgrades to distribution pipework, insulation and associated plant to enhance system efficiency and reliability.

The following phase focused on the optimisation and integration of system performance across the site, including enhancements to control strategies and distribution networks to ensure consistent operation. All works were delivered within a live educational environment, incorporating full testing, balancing and commissioning to provide a reliable, efficient and fully integrated heating solution designed for long-term performance.

Key Benefits

1. Delivery of a high-efficiency cascade boiler system, optimising performance and reducing gas consumption
2. Increased system capacity and reliability through upgraded gas infrastructure and AMR-enabled metering
3. Enhanced control and safety through bespoke BMS integration and modern control systems
4. Future-proofed heating solution designed to support long-term operational demands

Client Testimonial

"The Vital Synergy team were professional throughout and worked closely with us to ensure the school could continue operating with minimal disruption. The new system has given us much better control of our heating, improved efficiency and helped us reduce energy usage across the site."
– Estates Manager



Rhyddings School

Large Commercial M&E Package

Project Value

£600k

Delivered in 20 weeks

Enhancing System Control and Distribution Through Integrated Design

What We Delivered

The Rhyddings School project was delivered as a comprehensive heating system upgrade, beginning with the strip-out and replacement of existing mechanical infrastructure, followed by the installation of a new Low Temperature Hot Water (LTHW) distribution system complete with upgraded pipework, insulation and modern emitters. The works included the delivery of new radiators and fan convector units with associated controls, integrated into a centralised BMS system, alongside plantroom upgrades and electrical installations to support system operation across both ground and first floor areas.

The following phase focused on the optimisation and integration of system performance across the site, including enhancements to distribution networks and control strategies to ensure consistent operation. All works were delivered within a live educational environment, incorporating full testing, balancing and commissioning to provide a reliable, efficient and fully integrated heating solution designed for long-term performance.

Key Benefits

1. Increased heating effectiveness through the introduction of mixed emitter systems, including radiators and fan convectors
2. Improved distribution balance across multiple levels, ensuring even heat delivery throughout the building
3. Greater operational visibility and control via centralised BMS integration
4. Enhanced system durability and maintainability through upgraded plantroom and supporting electrical infrastructure

Client Testimonial

"Vital Synergy planned works carefully around the day to day running of the school and kept us informed at every stage. The completed system has made a real difference to comfort across the building, while also helping us improve efficiency and reduce running costs. We look forward to working with the team again" – Site Manager



Walney School

Large Commercial M&E Package

Project Value

£700k

Delivered in 20 weeks

Engineering Robust Heating Solutions for Long-Term Performance

What We Delivered

The project delivered the design, installation and commissioning of a 1MW cascade system of eight wall-mounted condensing gas boilers, supported by LTHW distribution and hot water systems, alongside the relocation of the plantroom and rerouting of gas infrastructure to suit the new layout. The works also incorporated upgrades to distribution pipework, insulation and system controls, ensuring improved efficiency, resilience and long-term performance across the site. A bespoke flue system and fully integrated BMS controls were implemented, providing enhanced system monitoring, control and safety, with all works carefully phased to maintain uninterrupted school operation.

The following phase focused on the optimisation and integration of system performance, including full testing, balancing and commissioning of heating and hot water systems to ensure reliable operation under varying demand conditions. All works were delivered within a live school environment, resulting in a stable, efficient and high-performing heating solution designed to support long-term operational requirements.

Key Benefits

1. Delivery of a high-efficiency cascade boiler system, optimising performance and reducing energy consumption
2. Improved system resilience tailored to a coastal environment with durable and carefully designed plant solutions
3. Seamless project delivery within a live school environment through strategic phasing and planning
4. Enhanced system control and safety through fully integrated BMS and gas interlock systems

Client Testimonial

The plantroom relocation and heating upgrade at Walney School were completed by Vital Synergy. Despite the complexity involved, the team approached the work professionally and ensured the school stayed operational throughout. Its new system now offers dependable, efficient heating that should serve the school well for years to come.
– School Business Manager

Contact Us

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Contact Vital Synergy

A trusted partner for end-to-end mechanical and electrical services, helping organisations reduce costs, lower emissions and futureproof their estates.

Call

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Excluding Bank
holidays

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Sectors we serve

Commercial

Industrial

Public
Sector

Healthcare

Education

Hospitality

Vital Synergy Ltd

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- Company Reg 10601953 | VAT Reg 262002847
- Headquartered in the Ribble Valley, serving clients nationwide.
- Complete mechanical and electrical services under one roof.
- Website: www.vitalsynergy.co.uk