



# **Powering Progress Nationwide**

The Experts in Fuel Management, Civil Groundworks and Environmental Services.

Proud to be part of the LCM Environmental Group.

# About the Octane Group



## **2012 – Octane Holding Group Ltd: Pioneers in Commercial Fuel Systems**

Octane Holding Group Ltd specialises in complete refuelling systems and fuel management solutions, serving clients across the UK. We work with local government, MOD facilities, haulage operators, airfields and airports, marinas, engine test cell facilities, data centres, and emergency services.

With decades of industry experience, we provide tailored services that meet your exact requirements, ensuring every project is delivered safely, efficiently, and to the highest standards.



## **2018 – Octane Draincare Ltd: Expertise in Drainage Solutions**

At Octane Draincare, our core objective is simple, to deliver fast, efficient, and dependable drainage services to both Commercial and Domestic customers across the UK. Whether it's an emergency callout or routine maintenance, we respond with speed, professionalism, and care.

As part of the wider Octane Holding Group, we benefit from extensive years of combined experience in the drainage and civils industry. This means our clients get more than just a service; they get access to deep-rooted expertise, cutting-edge equipment, and a team of dedicated professionals who are passionate about doing things properly

# Welcome to Octane Holding Group

At Octane Holding Group, we specialise in delivering integrated fuel infrastructure and environmental solutions that keep critical industries moving. With over 50 years of collective experience across civil engineering, fuel systems, and environmental compliance, we're trusted by clients nationwide to deliver precision, safety, and long-term value.

We provide a full suite of turnkey services, including site audits, tank installation, fuel system maintenance, groundworks, and sustainable environmental management. From airports and transport depots to manufacturing sites and commercial estates, our solutions are tailored to meet the operational and regulatory demands of each site.

Led by Jason Unsworth and Richard Sykes, our expert team combines industry-leading knowledge with a hands-on approach. We're proud to support our clients with forward-thinking strategies, robust infrastructure, and end-to-end compliance. Every project is delivered with minimal disruption, maximum reliability, and full transparency from planning through to post-completion.

Choosing Octane Holding Group means more than just meeting compliance, it's about building infrastructure that lasts. We help businesses stay ahead of industry change with scalable, future-ready solutions and a responsive, collaborative service.

Let's power progress together, a partnership rooted in trust, performance, and long-term success..



Jason Unsworth, Joint Managing Director  
**Octane Holding Group Ltd**



# Our Services

At Octane Holding Group, we deliver a comprehensive suite of specialist services designed to support every aspect of commercial fuel infrastructure. From planned maintenance site audits and groundwork to compliant fuel tank installations, environmental protection, and long-term maintenance, our team ensures your operations remain safe, efficient, and regulation-ready.



## Planned Maintenance Site Audit

Octane's Planned Site Audit reviews refuelling infrastructure for compliance. Our OFTEC engineers assess tanks, pipework, and pumps, delivering a detailed risk report and free calibration to minimise risk and downtime.



## Installations

We deliver complete fuel installation services, including pumps, gauges, and fuel management systems tailored to your site's needs. Our expert team ensures each installation is compliant, efficient, and optimised for safe, reliable operations.



## Environmental

Our Environmental service ensures compliance with audits, spill prevention, waste control, and pollution mitigation. We help protect ecosystems with tailored plans that reduce risk and support sustainability goals.



## Groundwork

Octane provides civil engineering and groundwork for fuel infrastructure. From drainage to utility prep, we build safe, regulation-compliant sites ready for fuel system installation.



## Interceptors & Separators

We install and maintain interceptor systems that prevent hydrocarbons and solids entering watercourses. Our expert servicing ensures compliance and environmental protection for forecourts and industrial sites.



## Aviation

Our Aviation service delivers audits to JIG 4 standards, inspections, and pressure tests for airfields. With airside insurance and specialist knowledge, we maintain safe, compliant fuelling operations.



## Marine

We deliver safe, compliant and durable marine fuel infrastructure for marinas, harbours and coastal facilities across the UK. Our turnkey solutions cover design, installation and long-term maintenance.

Octane Holding Group combines expertise, compliance, and experience to deliver safe, efficient, future-ready fuel infrastructure. Each site operates smoothly while meeting environmental standards. Partnering with us ensures fuel systems are managed with precision and reliability.

Y O U R V I S I O N , O U R E X P E R T I S E



## Planned Site Audits

Octane Holding Group delivers planned fuel system site maintenance to ensure long-term reliability, performance, and compliance across all fuel infrastructure types. Our planned maintenance site audits helps prevent unplanned failures by identifying wear, inefficiencies, and potential risks before they become critical, extending the lifespan of your assets and supporting uninterrupted operations.

Covering tanks, pipework, pumps, meters, gauges, and safety systems, we carry out regular inspections, servicing, calibration checks, and performance diagnostics as part of an agreed schedule tailored to your site. Our OFTEC-registered engineers provide detailed documentation and service records to support regulatory audits, environmental obligations, and internal reporting.

By investing in routine care, you minimise the risk of costly downtime, environmental breaches, equipment breakdowns, and compliance issues.

From individual refuelling sites to complex, large-scale fuel networks, Octane provides the expertise, responsiveness, and forward planning needed to keep your infrastructure in peak condition—today, tomorrow, and well into the future.





# Installations

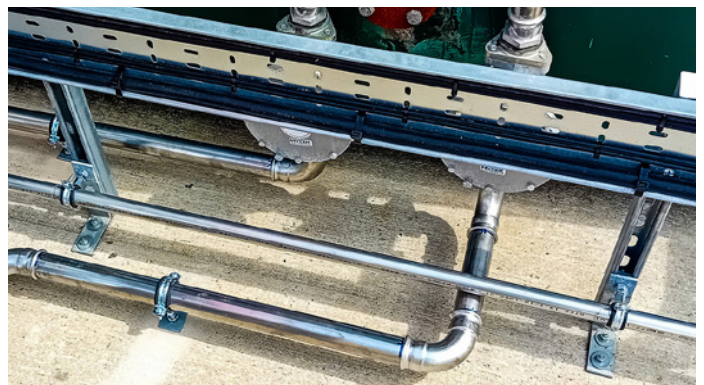
Octane delivers complete installation services for fuel storage, dispensing, and control systems across fleet, aviation, marine, industrial, and commercial environments. Every project is completed by qualified engineers with deep experience in high-risk and regulated fuel installations, ensuring safety, compliance, and long-term reliability from start to finish.

Our teams install a wide range of pipework systems, including carbon steel, stainless steel, dual-walled stainless steel, and dual-walled plastic fusion-welded pipework. Each system is designed to match the fuel type, operating environment, pressure requirements, and regulatory obligations of the site. From above-ground distribution networks to buried, fully contained pipework, every installation is delivered with precision, full traceability, and long-term integrity.

Alongside mechanical works, Octane undertakes full electrical installation and integration. This

includes power, control, ATEX-rated infrastructure where required, and seamless connection of fuel management and monitoring systems.

We install and commission complete fuel infrastructure packages that include bulk tanks, dispensing pumps, advanced tank gauging, leak detection, overfill prevention, and bund alarm systems. Every installation is tested, commissioned, and documented to ensure operational efficiency and compliance.



YOUR VISION, OUR EXPERTISE



## Environmental

At Octane Holding Group, environmental compliance is integral to how we manage and maintain fuel systems. Our Environmental services help clients meet legislation and best practice across a range of fuel storage, handling, and infrastructure operations.

We carry out detailed environmental audits to identify risk, recommend improvements, and ensure ongoing compliance. Services include pollution control, spill response planning, bund integrity checks, drainage mapping, and groundwater protection strategies, all delivered by experienced engineers with strong regulatory knowledge.

For high-risk or sensitive sites, we implement proactive mitigation plans tailored to your operations, preventing contamination and reducing liability. We also support incident response, remediation strategies, and reporting obligations, giving you clarity and assurance.

Whether you're a fuel supplier, airport, industrial facility or commercial operator, we'll help safeguard your business, people, and surrounding ecosystems. Our expert-led service is trusted nationwide to manage environmental risk and support sustainability commitments.





# Groundworks

Our Groundworks division lays the foundation for safe, compliant fuel infrastructure. We specialise in civil engineering and excavation works that support the installation of tanks, pipework, dispensers, and containment systems. With extensive experience in fuel-related civils, our teams understand the importance of precision, sequencing, and environmental control.

Our experienced teams deliver drainage solutions, concrete pads, utility preparations, and bunded slab construction, all to the highest industry standards. We handle every stage from ground investigation to final finish, ensuring the site is ready for smooth system commissioning and future-proof performance.

All works are planned with safety, regulatory compliance, and long-term durability in mind. Whether it's a new installation or remedial project, Octane ensures your groundwork is done right the first time. We collaborate with fuel suppliers,

construction contractors, and site operators across the UK to ensure precision delivery, full compliance, and minimal disruption to your operations or schedule.



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# Interceptors & Separators

We provide expert installation, servicing, and maintenance of fuel and oil interceptor systems—essential for preventing hydrocarbons, oils, and suspended solids from entering drainage infrastructure or polluting watercourses. These systems are critical in protecting the environment, particularly on high-risk sites such as fuel depots, transport yards, forecourts, industrial estates, and airside locations.

Our team offers tailored interceptor solutions based on your site's specification, ensuring correct sizing, optimal placement, and full compliance with Environment Agency guidelines and pollution control regulations. Once installed, we continue to support you with a proactive maintenance regime that includes scheduled emptying, cleaning, inspections, and servicing, keeping your system efficient and compliant.

Whether you require a new separator installation or help maintaining existing infrastructure, we reduce

contamination risks and safeguard surrounding ecosystems. All works are carried out by trained engineers, in line with best practices and industry standards—minimising downtime and maintaining environmental integrity.





## Aviation

Octane Holding Group delivers specialist fuel infrastructure support for the aviation sector, working across airfields, airports, flying clubs, and heliports. With a dedicated, airside-insured team, we provide fully compliant inspections, maintenance, and testing services to ensure the safe and uninterrupted operation of your aviation fuelling systems.

Our services include site audits in line with JIG-4 standards, fuel tank pressure testing, pump calibrations, hazardous-area electrical inspections, and integrity checks on fuel lines and dispensing equipment. We help clients maintain strict regulatory compliance while minimising operational disruption through precise scheduling, expert planning, and tailored support for complex aviation environments.

Every project is handled with aviation-specific expertise, ensuring safety, accuracy, and full adherence to sector regulations. Whether you

manage a small airstrip, aeroclub or a commercial terminal, we deliver peace of mind that your fuelling infrastructure is performing at its best, ready to support safe, efficient flight operations.





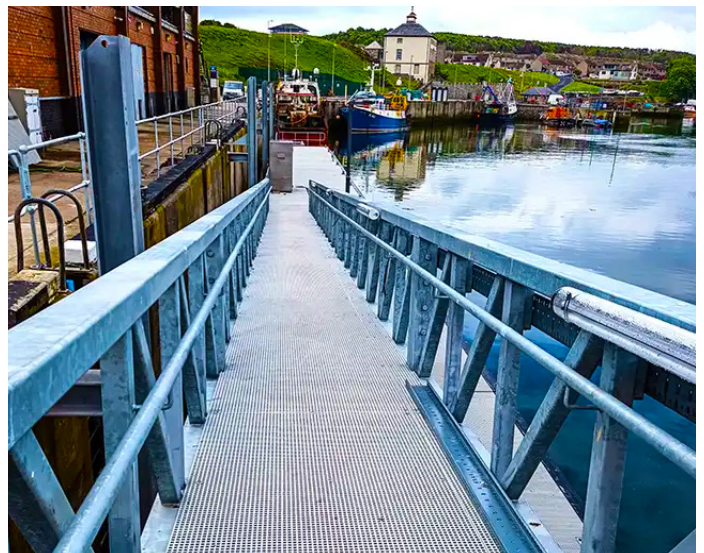
## Marine

Delivering specialist fuel infrastructure solutions for marinas, boatyards, harbours and coastal fuelling operations. With extensive experience in marine fuel system design, installation and maintenance, we build infrastructure that meets the highest standards of safety, compliance and reliability. Our expertise covers both commercial and leisure environments, ensuring systems are tailored to withstand the challenges of marine conditions.

We provide a full service from design and planning to installation, commissioning and long-term maintenance. Our offering includes durable above and below ground tanks with containment, corrosion-resistant marine pumps and pipework, spill control measures, environmental safeguards, compliance upgrades and safe decommissioning. We also offer fuel polishing to maintain quality and prevent contamination.

Serving marinas, harbours, boatyards and ports, we work closely with clients to assess infrastructure,

deliver upgrades and ensure long-term performance. Our maintenance teams provide scheduled inspections, servicing, emergency response, fuel quality testing and compliance support, ensuring your marine fuelling operations remain safe, clean and efficient for years to come.





# Our Products

Octane Holding Group provides a specialist range of fuel infrastructure products designed to maximise safety, efficiency, and compliance across demanding sectors. From secure bunded tanks and precision fuel dispensers to intelligent management systems and innovative fuel treatment solutions, our products are engineered for long-term performance and tailored to each site.



## Fuel Tanks & Bunded Tanks

Designs and installs bespoke fuel tanks and bunded tanks, each engineered with a secondary containment layer to prevent leaks and ensure environmental compliance. Our fuel tanks provide safe, reliable storage for logistics, aviation, emergency services, and more, while bunded tanks offer additional protection against spills.



## Fuel Dispensers

Offers rugged, high-accuracy fuel dispensers engineered for a variety of refuelling sectors, designed with durability and customisation in mind. Featuring positive displacement metering, auto air-venting, and pulsed output for integration with fuel management systems, our dispensers deliver precise performance every time.



## Outdoor Payment Terminals

Supplying and installing secure, Unicode Outdoor Payment Terminals for unattended refuelling (ATEX-approved terminals optional). Designed for aviation, marine and commercial sites, these terminals support chip-and-PIN, contactless, and mobile payments, while integrating seamlessly with fuel management systems



## Fuel Management - MCS Sapphire Lite and Sapphire

Octane Holding Group delivers Fuel Management Services, offering expert installation, system setup, and 24/7 monitoring to optimise performance and compliance. Integrated with MCS Sapphire platforms across single or multiple sites, we provide real-time reporting, fraud prevention, access control, and operational transparency.



## Temporary Fuelling Systems

Specialist mobile refuelling solutions for Mogas/Petrol and Diesel, designed to maintain uninterrupted operations during infrastructure upgrades, maintenance, or unexpected outages. Systems feature dual pumps, fuel management-controlled dispensing, and built-in generators or solar backup, ensuring safe, reliable refuelling.



## Octasolve

Octane Holding Group's Octasolve is a breakthrough fuel treatment solution that dissolves water contamination and prevents diesel bug, significantly enhancing fuel quality. Using advanced chemistry, it rapidly clears fuel of moisture and microbial growth, ensuring long-lasting performance and reduced maintenance.



## Fuel Tanks

Supplying, installing, and maintaining bespoke fuel tanks and bunded tanks engineered for safe, compliant storage across high-demand environments. Designed with integrated secondary containment, our bunded tanks help protect against leaks, ground contamination, and environmental breaches, while our fuel tanks provide secure storage for all fuel types, ensuring peace of mind for fuel-dependent operations.

We offer full support from design and specification through to installation and commissioning, tailoring each tank to suit your site's capacity, space, and compliance requirements. Every system is built to meet current Oil Storage Regulations and Environment Agency guidelines, with optional features such as remote monitoring, overflow protection, and fuel management integration.

Whether for logistics, emergency services, aviation, or industrial use, Octane Holding Group's fuel and bunded tanks deliver long-term durability,

regulatory compliance, and fuel security. Backed by our nationwide team of engineers and in-house expertise, we provide a complete storage solution designed to perform safely and reliably, now and into the future.





# Fuel Dispensers

Octane Holding Group supplies precision-engineered fuel dispensers designed specifically for commercial and industrial fuelling environments. Built to withstand high-demand usage, our dispensers offer exceptional accuracy, robust construction, and seamless compatibility with modern fuel management systems, making them ideal for sectors such as logistics, emergency services, and aviation.

Each unit features positive displacement metering, auto air-venting, pulsed output, and a choice of hose lengths and nozzle configurations, allowing for full customisation to meet your operational and compliance needs. Safety enhancements like overfill alarms and lockable nozzles are available to ensure every installation meets industry standards and site-specific requirements.

Backed by expert advice, technical support, and nationwide servicing, our fuel dispensers help maintain operational continuity, reduce fuel losses,

and streamline refuelling processes. Whether you're upgrading an existing setup or building from the ground up, Octane delivers dependable, high-performance solutions tailored to your site.



P O W E R I N G P R O G R E S S N A T I O N W I D E



# Outdoor Payment Terminals

Delivering professional outdoor payment terminal solutions that give you full control over fuelling access, transactions, and site operations. Our solutions, built around Unicode OPT technology, including standard, ATEX-compliant, and integrated options, offer secure payments, real-time monitoring, automated reporting, and seamless integration with dispensers and management systems for complete operational oversight and compliance.

We support clients across aviation, marine, industrial, and commercial fuelling operations with tailored hardware and software setups. Features such as contactless card payments, PIN/tag access, multi-site integration, and real-time transaction reporting help improve security, boost operational efficiency, and simplify compliance with safety, environmental, and industry regulations. Octane's solutions are designed to adapt to each client's unique operational needs, ensuring maximum reliability and ease of use.

Our engineers handle installation, commissioning, and onboarding alongside 24/7 technical support. Whether you are upgrading a single site or multiple terminals across a network, Octane's advanced outdoor payment solutions provide transparency, reliability, and future-ready infrastructure for safe, efficient, and scalable fuelling operations.





# MCS Sapphire 2

Delivering next-gen fuel management systems that provide complete visibility, control, and operational performance across your fleet or refuelling network. The Sapphire 2 platform, supported by MCS Core, combines cloud-based intelligence with proven hardware to deliver real-time monitoring, advanced security, automated reporting, and seamless integration.

We support clients across transport, logistics, emergency services, aviation, and marine with tailored software and hardware solutions. Features such as live fuel tracking, driver and vehicle authentication, modular component design, predictive maintenance, centralised reporting, and seamless multi-site management help reduce theft, prevent downtime, and simplify compliance with environmental and industry regulations.

Our experienced engineers manage installation, commissioning, and onboarding alongside 24/7 technical support to ensure uninterrupted

performance. Whether operating a single depot or a nationwide network, Sapphire 2 fuel management solutions deliver transparency, reliability, and future-ready infrastructure, empowering operators to optimise fuel usage and maintain full control over all operational aspects.



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## MCS Sapphire Lite

Delivering advanced fuel management systems that give you full control over fuel usage, access, and stock across your fleet or refuelling site. Octane's Fuel Management Systems, including the Sapphire Lite, Classic, Enterprise, and Cloud Gauge platforms, provide real-time visibility, enhanced security, automated reporting, and seamless fleet integration to maximise operational efficiency and compliance.

We support clients across transport, logistics, emergency services, aviation, and more with tailored software and hardware setups. Features such as vehicle and driver identification, PIN/tag access, real-time stock monitoring, multi-site management, and detailed reconciliation help reduce theft, prevent fuel waste, and simplify compliance with environmental and industry regulations.

Our experienced engineers handle installation, commissioning, and onboarding alongside 24/7

technical support to ensure minimal disruption and continued performance. Whether you're operating a single depot or managing multiple sites, Octane's fuel management solutions deliver transparency, accountability, and scalable infrastructure to keep operations efficient, secure, and fully optimised.



Y O U R V I S I O N , O U R E X P E R T I S E



# Temporary Fuel Systems

Octane Holding Group's Temporary Fuel Systems are specialist mobile refuelling solutions designed to maintain uninterrupted operations during fuel infrastructure upgrades, planned maintenance, or unexpected outages. Our systems provide reliable access to Mogas/Petrol and Diesel wherever and whenever it's needed, ensuring operational continuity for military, commercial, and industrial sites. By delivering fuel safely and efficiently, they minimise costly downtime and give teams and stakeholders complete peace of mind.

Engineered for flexibility and performance, Octane's temporary fuel systems feature dual product fuelling, and dual side access, allowing simultaneous refuelling of multiple vehicle types maximising productivity. Integrated fuel management-controlled dispensing provides full oversight and reporting, ensuring accountability and operational efficiency. Built-in generators and solar-powered systems keep refuelling capabilities operational even in remote environments.

Tailored for MOD, DoD, DIO, and commercial operations, each deployment is fully managed, safe, and compliant. Whether supporting routine maintenance, emergency fuel supply, or infrastructure upgrades, our temporary refuelling solutions adapt seamlessly to your site conditions and operational requirements.





# Octasolve

Octane Holding Group's Octasolve is a revolutionary fuel treatment designed to address the most common and damaging fuel contamination issues, water ingress, diesel bug, and harmful emissions, at their source. Utilizing cutting-edge molecular bonding technology, Octasolve permanently dissolves water directly into diesel, bio, and aviation fuels, eliminating the traditional need for draining tanks. This innovative process stabilises fuel quality, prevents rust and corrosion, and significantly reduces microbial growth that can clog filters and damage engines.

Octasolve's highly efficient 1:1,000 treatment ratio means just one litre treats 1,000 litres of fuel, making it a cost-effective choice for businesses of all sizes. By improving combustion and reducing fuel contaminants, it lowers harmful emissions by up to 70%, helping clients meet tightening environmental regulations and reduce carbon footprints. It enhances fuel efficiency by up to 10%, saving money and extending engine life.

Perfect for fleet operators, fuel storage sites, emergency services, and aviation sectors, Octasolve offers long-term protection and reliability. Available in multiple volumes with fast delivery across the UK, our team provides expert advice and support to ensure you get the right solution for your fuel management needs.



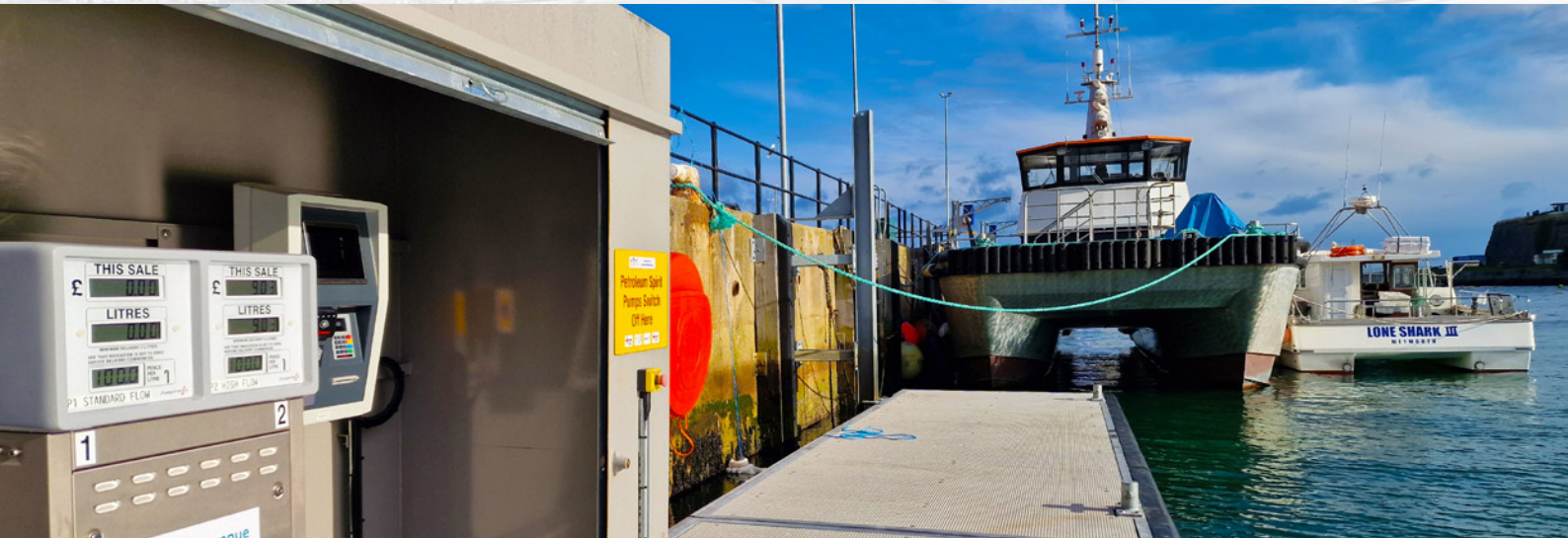
Y O U R V I S I O N , O U R E X P E R T I S E

# Case Studies

Explore a selection of case studies delivered by Octane Holding Group including smart fuel management, outdoor payment terminal installations and fuel infrastructure upgrades.



Supplied and Maintained by  
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## Case Study – Outdoor Payment Terminal Installation – Weymouth

### What Was the Brief?

Weymouth Harbour appointed Octane Holding Group to deliver a secure, self-service marine fuelling solution at the quayside. The harbour required a reliable system that allowed boat owners to complete payments independently while operating in a harsh, exposed coastal environment.

The brief required installation of a Unicode Outdoor Payment Terminal integrated with a Pumptronics C-Series twin dispenser and Franklin variable-speed submersible pumps. The system needed to provide real-time fuel-level visibility, accurate transaction reporting, multiple secure payment methods, and seamless integration with harbour operations, while maintaining high uptime during peak seasonal activity.

### What Did Octane Do?

Octane Holding Group delivered a full turnkey installation and commissioning package from start to finish. Key works included:

Installation of a Unicode Outdoor Payment Terminal engineered for secure, unattended marine payments

Integrated with a Pumptronics C Series twin dispenser and Franklin variable speed submersible pumps

Dedicated Cat5 connection linking the terminal to harbour back-office systems for transaction processing and monitoring

Installation of an uninterrupted power supply to maintain continuous operation during outages

Priming, testing, and full commissioning of dispensing equipment

Compliance with weights and measures standards for resale of fuel

Close coordination with harbour management ensured all works were completed efficiently while maintaining operational access to the quayside.

### What Was the Result?

The installation provides Weymouth Harbour with a secure, future-ready, unmanned fuelling system. The Unicode OPT enables 24/7 access to fuel, supporting chip and PIN, contactless, mobile payments, and account cards for maximum convenience.

Real-time stock visibility and accurate transaction reporting deliver improved control and accountability. Project was completed on time and full compliant, providing a robust, scalable solution designed to perform reliably in challenging marine conditions.



# Case Study – 24/7 Self-Service Avgas Refuelling System

## What Was the Brief?

A busy UK airfield required a modern self-service Avgas refuelling system to give pilots safe, reliable, and independent access to Avgas 100LL outside of staffed operating hours. The existing setup limited flexibility for pilots and airfield staff, increasing operational pressure and restricting service availability.

The brief was to deliver a fully automated Avgas facility that complied with ATEX standards, integrated secure electronic payment technology, and provided a full audit trail of fuel transactions. The system needed to improve operational efficiency, enhance customer experience for general aviation pilots, and provide a scalable, future-ready solution to accommodate growing demand.

## What Did Octane Do?

Octane Refuelling Systems delivered a full turnkey installation, ensuring a compliant, safe, and user-friendly self-service Avgas facility. Key works included:

Installation of a Unicode ATEX-approved outdoor payment terminal, supporting chip-and-PIN, contactless, Google Pay, Apple Pay, and local member account cards

Integration of a Pumphtronics C Series Avgas 100LL dispenser with the airfield's fuelling infrastructure

Connection of the dispenser to a 40,000-litre above-ground Avgas storage tank for safe, reliable capacity

Full calibration, testing, and commissioning to aviation fuel standards

On-site training and compliance documentation handover for airfield staff

Provision of UK-based technical support with remote diagnostics for 24/7 operational reliability

## What Was the Result?

The upgraded self-service Avgas system has transformed airfield operations. Pilots can now refuel at any time with secure, contactless payment options, while the airfield team benefits from reduced reliance on staff and more efficient operations.

By combining trusted Pumphtronics dispensing technology with Unicode's advanced payment terminals, Octane Refuelling Systems delivered a compliant, scalable, and future-proof facility. The installation enhances safety, simplifies fuel management, and provides a premium customer experience for general aviation operators.



## Case Study – Yorkshire Ambulance Service – Keighley

### What Was the Brief?

Yorkshire Ambulance Service appointed Octane Holding Group to carry out a critical fuel infrastructure upgrade at its Keighley station. The existing below-ground fuelling system was outdated, posed environmental risks, and required increasing maintenance.

The brief required full decommissioning of the ageing system and installation of a modern, above-ground solution. Works needed to be delivered on a live emergency service site with zero disruption to ambulance operations, full environmental compliance, and strict health and safety controls.

### What Did Octane Do?

Octane Holding Group provided a full turnkey service, delivering the project from start to finish. Key works included:

Safe decommissioning of below-ground diesel tanks, fuel island, and overhead canopy

Installation of a new above-ground bunded storage tank for enhanced safety and durability

New fuel dispensing system and pipework for efficient, accurate refuelling

Upgraded drainage and containment to meet environmental and EA requirements

Hazardous waste management, including safe removal of asbestos in line with HSE guidance

Traffic management and welfare facilities to protect site users and maintain operational access

Compilation of a full Health & Safety File with all compliance and certification

Close coordination with Yorkshire Ambulance staff ensured all works were completed without disrupting emergency services..

### What Was the Result?

The upgraded system provides a compliant, future-ready. The project was completed on time and within budget, providing Yorkshire Ambulance Service with a future-ready, compliant fuelling system. The new installation is safer, easier to maintain, and offers enhanced environmental protection.

Octane's delivery approach ensured a clean, professional handover with minimal site impact, strengthening the station's operational resilience and supporting frontline emergency responders for years to come.



# Case Study – Ministry of Defence MTFI Fuel Infrastructure Upgrade

## What Was the Brief?

Octane Holding Group was appointed to upgrade a Mechanical Transport Fuelling Installation (MTFI) that had been operational for over 20 years. The existing system, based on underground single-skin diesel tanks, was outdated and no longer met modern safety and environmental standards.

The client required decommissioning of the old infrastructure, followed by the design and installation of a compliant above-ground diesel storage and dispensing system, engineered for durability and delivered with minimal disruption to site operations.

## What Did Octane Do?

Octane developed a plan that met all technical and compliance requirements while supporting continued site activity. Coordinated closely with the client and third parties, the project involved:

- Safe removal and decommissioning of the underground tanks

- Installation of a new cylindrical above-ground diesel tank on a bespoke steel gantry

- Construction of a dispensing island with an ERIC (Electronic Remote Island Control) system

- Installation of pipework, gauging, leak detection alarms, and a GRP control kiosk

- Integration of OWI drainage, LV power, lighting, and full earthing and lightning protection

- Implementation of fire/fuel alarm links and compliant site safety signage

- Provision of a temporary fuel dispensing setup to maintain operations

All works were delivered to high industry standards with a strong focus on safety, compliance, and environmental stewardship.

## What Was the Result?

The upgraded system provides a compliant, future-ready fuelling solution that improves reliability and reduces environmental risk. With modern containment, monitoring, and dispensing features, the installation meets today's operational and regulatory expectations.

Completed on time and without disruption to site operations, the project demonstrates Octane Holding Group's capability in delivering high-quality engineering under live-site conditions.



## Case Study – MCS Sapphire Hydrogen Fuel System Integration

### What Was the Brief?

Octane Holding Group was appointed to install the MCS Sapphire fuel management system across Motive Fuels' green hydrogen refuelling network.

Motive required a reliable, fully supported solution that integrated with existing hydrogen dispensers and fuel cards. The previous system caused downtime that could take stations offline for days, impacting public access, fleet operations, and emergency services.

The objective was a system that captured all transactional and fuel card data in real time, supported external fuel cards, and integrated with Motive's accounting software to automate invoicing, all while maintaining uninterrupted operations.

### What Did Octane Do?

Octane implemented a structured plan prioritising accuracy, reliability, and continuous operations:

Testing hydrogen dispensers for protocol compatibility with MCS Sapphire terminals

Verifying fuel cards and ensuring continuity for existing users

Developing bespoke software to import/export data from external card providers

Capturing transactional data from non-connected dispensers via FTP

Installing fully online MCS Sapphire terminals with keypad and card reader

Managing the project from installation and commissioning through to ongoing 24/7 support

Octane provided seamless integration, immediate remote diagnostics, and rapid issue resolution, minimising downtime and keeping stations fully operational.

### What Was the Result?

The MCS Sapphire system has transformed operational reliability across the network. Real-time transactional capture, external card integration, and automated accounting have reduce administration and errors. Downtime has been significantly reduced, ensuring fleets and the public can refuel hydrogen vehicles without interruption.

This project demonstrates Octane Holding Group's expertise in delivering innovative fuel management solutions, combining technical skill, careful planning, and proactive support for cutting-edge green energy infrastructure.



**Octane Holding Group Ltd**

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