Autumn 2025

ISSUE No.108

Insite

Insite is the official magazine of PEIMF+

PEIMF+
The future of fuel and energy services

Also in this issue:

- Vehicle washing
- PEIMF+ annual meeting

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Respecting the past and looking to the future

Welcome to the last issue this year of INSITE - Winter will be out after Christmas (sorry the 'C' word already). We have a wide range of products and services promoted in this edition, from vehicle washing to retail technologies and health & safety to aviation fuelling.

Our front cover pays homage to our members, representing the many facets of our industry. The sharper-eyed amongst you may pick up on the fact that this cartoon (or most of it) was originally shown in Summer 2019 – as we pay our respects to our cartoonist; the late, great, Brian Sage.

This includes a reference to my predecessor, Frank Hare, who passed away around that time – with his Hartlepool Utd flag. Lovely bloke, big personality and a great leader for PEIMF at the time.

But times move on, and we introduce the 'soon to be' new Editor of INSITE and Business Manager for PEIMF+, Niki Rodhouse. Niki brings years of industry experience and has been involved in many successful projects. She earned the role in the face of stiff competition and the committee are excited to welcome her in January (although yours truly won't be going anywhere just yet).

Terry Moody shares his findings since taking over as our Technical Manager. I'm sure Frank would approve.

And finally, we'll be at APEALive in Milton Keynes on November 13th. Hope to see you there.

David Honeyman, Editor

Committee

Chair:	Siobhan Keogh
Deputy:	Robin Futcher
Treasurer:	Tom Burns
Business Manager and Insite Editor:	David Honeyman
Technical Manager:	Terry Moody
Technical Consultant:	Phil Monger
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Front cover illustration
Brian Sage

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The Green Pages New Fuels Guide

8 pages packed with specialist information on new fuel technologies

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Advertisers and the suppliers of contributed articles are asked to ensure that material submitted is fair and accurate at all times. The Editor reserves the right to amend or withdraw such material which may not comply with this request after consultation.

Buckle up.
Start your engines.
It's back!

PEIMF+
The future of fuel and energy services

The great
2026 PEIMF+ Karting challenge

Wednesday February 11th 2026

Plus dinner, AGM and presentations

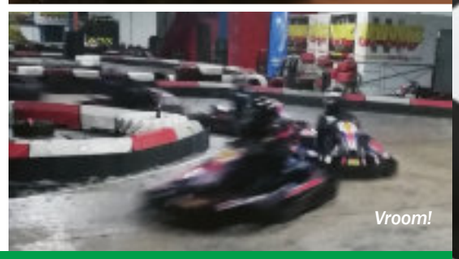
It's been a few years since we last hosted this exciting, fun afternoon, which kicks off an excellent couple of days. There is plenty of opportunity to network with top quality contacts, around a great itinerary, including:

PEIMF+ 2026 AGM, our FREE Members' Dinner, excellent technical presentations and finally a buffet lunch.

It may seem a long way off, but team spaces are limited and you need to get in quickly.

Only
4 teams left.
Book now!

Pre-match nerves


Vroom!

THE VIEW FROM THE PIT LANE

Previously, our intrepid reporter Jeff Young was in the thick of the karting action and gave this brief round-up from the race track.

I arrived at the karting track to find practice and safety instructions well underway. The team racing commenced shortly after, with full power and effort by ten very competitive teams.

The racing continued for a further two hours on the circuit, which is all on one level, with short straights and tricky corners. Accidents were minimal, but there was plenty of arm waving and verbal abuse!

Speed was of the essence and so it was easier to take photos when the yellow flags were waved.

Team places are limited so please

book your team now: £295

Five drivers in a 2-hour endurance test of stamina and speed.

Presentations at the evening Dinner (always a great night).

If you're not putting a team forward, but you fancy yourself as a budding Lewis Hamilton, you can join our group of 'PEIMF+ Allstars' (£75 per head).

Contact David NOW to book your place:

david@peimf.com

The passing of Jennifer Preston

The team at Fuelquip recently announced, with great sadness and broken hearts, the passing of Jennifer Preston; co-founder & Director of the family run businesses Pennine Pump & Tank Co and Fuelqup Ltd.

Following a very brave, but brief, battle with illness, Jennifer passed away peacefully, surrounded by all her family, who loved her dearly, on August 5th, aged 72.

An extraordinary businesswoman, with over 40 years of service to the petroleum and refuelling industry, Jennifer's legacy will be immensely missed by all that knew her.

Deborah Preston, her daughter says:

"As a family we are extremely devastated. Jennifer was an absolutely incredible woman, and I am unbelievably proud to call her my Mum. Working alongside her has been an honour and a privilege."

Fish & chips!

Working on the family farm from a very early age, Jennifer was not shy of hard work. She later went on to own her own milk round & fish & chip shop, which she then sold to start up Pennine Pump & Tank with husband & business partner Steve Preston in 1984.

Consequently, Pennine Pump & Tank Co. has successfully kept Britain's commercial fleet operators refuelling for over 40 years. As the business grew from strength to strength, Steve & Jennifer formed a second company in 2001, FuelQuip Ltd, to bring to market the cutting-edge technology of the GIR Fuel Management System.

With Jennifer in the driving seat through it all, working closely with customers and suppliers to direct and push the business to new heights, FuelQuip's presence & reputation in the industry soared.

Winning contract after contract with the likes of: GXO Logistics, XPO Logistics, Amey Highways, Kier, United Utilities, Farmfoods and many more, both FuelQuip & Pennine Pump & Tank. flourished.

Full of energy

Jennifer did anything and everything for everyone in her life. She achieved so much as she just did not stop. Full of energy, always on the go and onto the next job.

Steve said to Jennifer at 9.30 one night

"Rome wasn't built in a day"

She replied

"That's because I wasn't there!"

A resilient and determine lady, right until the end. A true diamond. Deeply loved and cherished by all. Following a service Jennifer was laid to rest at her family farm.

Forever in our hearts.

Our editor says:

The Preston family have been great supporters of PEIMF+ from day one and our thoughts are with Steve, Deborah and all the family.

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Exciting news from PEIMF+

Online renewal of Petrol Safety Passport

Our Technical Manager, Terry Moody, is establishing himself well on a number of the key industry committees. Here's his take on an important development – which will affect everyone working on site.

As someone who participated in the development of the Petrol Safety Passport training, almost 25 years ago, it is heartening to see it continue to go from strength to strength. The SPA press release that follows highlights a couple of significant changes.

Firstly, the ability to undertake the 2-day course remotely if you wish, the one renewal has been available remotely for some time. Secondly the updated course being released shortly, considers further risks associated with new fuels and activities on fuel stations. Both are very relevant to PEIMF members in controlling costs, whilst keeping across the ever-changing industry in which we operate.

Forecourt Safety Passport: Standards in Action

The forecourt safety pass forms the foundation of competence for anyone working on forecourts. Now run in collaboration with the Petroleum Retail National Safety Group (PRNSG), it ensures training in hazard recognition: from fire and explosion to electrical risks and flammable gases; as well as emergency response protocols. Available for anyone who will be undertaking works on, in or around a forecourt site, the FSP is a two-day course which covers the core risks and mitigations for working safely on the UK's forecourts.

Now available online

Due to the success of remote delivery for the renewal course, the 2-day Core and Petrol training is now available to be completed virtually. Adding another option for delegates, to help them gain their safety passport. In addition, all training providers continue to deliver classroom based training.

Adapting for alternative fuels

As ever, regulations change, and guidance develops. As a result, the passport is only valid for three years, after which a one-day refresher is required. Everyone is urged to check their passport expiry date to ensure it is still valid, and you can add a full additional three years up, to six months before the expiry date on the card.

The course curriculum is updated every 3 years and aligned with essential guidance (the "Blue Book" and "Red Guide") and statutory obligations like DSEAR and the Petroleum Regulations. Training ensures operatives are equipped to manage both traditional fuels and future technologies.

www.safetypassports.co.uk/courses/petrol-retail/

Our new recruit

We're delighted to soon be welcoming our new PEIMF+ Business Manager / INSITE editor – Niki Rodhouse.

She will be joining in January and working alongside David (until we shuffle him out to pasture sometime next year). We'll be including a far more in-depth profile in the next issue but here, in her own words, is an introduction to Niki.

I began my career in the downstream oil industry in 1995 (*OMG says our editor*) as a Sales Co-ordinator at UK Petroleum and have spent the last 30 years (!!) working both in and around the sector. I first attended a Forecourt Roadshow back in 1997, the exact date lost in the mists of time, but it captured the whole essence of building connections within a community of industry experts; which I've found so valuable ever since.

I've since enjoyed roles with respected industry names like Gulf, Certas Energy, and Eurotank; often right in the thick of everything.

I'm passionate about health and nutrition, despite a fondness for ice cream, and I've thrown myself into a couple of tandem parachute jumps and even a wing walk for charity.

I'm really looking forward to bringing energy, experience and enthusiasm to the role, and meeting up with everyone at exhibitions and meetings – starting at APEALive.

Niki

24/7 self-service Avgas refuelling

Octane Holding Group were briefed with supplying a Secure, ATEX-compliant outdoor payment terminal for UK general aviation airfields

STEP ONE

The brief

A busy UK airfield required a modern outdoor payment terminal that would give pilots safe, reliable, and independent access to Avgas 100LL outside of staffed operating hours. The existing setup created limitations for both pilots and the airfield team, restricting flexibility and increasing operational pressure.

The brief was clear: deliver a fully automated Avgas refuelling system that met strict ATEX compliance standards, integrated with secure electronic payment technology, and provided a complete audit trail of all fuel transactions. The goal was to enhance customer service for general aviation pilots, improve operational efficiency for the airfield, and ensure a future-ready solution that could adapt to growing demand.

STEP TWO

What did Octane do?

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

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

Integrating a Pumptronics C Series Avgas 100LL dispenser with the airfield's fuelling infrastructure;

Connecting the dispenser to a 40,000-litre above-ground Avgas storage tank for safe and reliable capacity;

Carrying out full calibration, testing, and commissioning to aviation fuelling standards;

Providing on-site training and compliance documentation handover for airfield staff;

Delivering UK-based technical support with remote diagnostics, ensuring round-the-clock system reliability.

STEP THREE

The result?

The installation of the new Avgas refuelling system has transformed airfield operations. Pilots can now refuel their aircraft at any time of day, with secure, contactless payment options and complete peace of mind that the system is fully ATEX-rated and compliant with UK aviation fuel regulations.

The solution has reduced reliance on staff, streamlined airfield operations, and significantly improved the customer experience for visiting and based pilots.

By combining trusted Pumptronics dispensing technology with Unicode's advanced outdoor payment system, Octane Refuelling Systems has delivered a professional, scalable, and future-proof self-service Avgas facility that sets the standard for general aviation refuelling across the UK.

Beyond aviation

Although this installation was tailored to general aviation refuelling, the same self-service payment technology can be applied across a wide range of industries. From marinas and retail forecourts to haulage depots, agricultural fuelling sites, and industrial or construction facilities, Unicode Outdoor Payment Terminals – supplied and installed in the UK by authorised distributor Octane Refuelling Systems – provide secure, compliant, and future-ready dispensing solutions.

This versatility makes the system ideal wherever safe, unattended refuelling and accountable fuel management are required.

Unicode outdoor payment terminal solutions

Octane Holding Group is proud to be an approved and authorised installer of Unicode OPT (Outdoor Payment Terminals), supplying and integrating these advanced payment solutions across the UK. Unicode OPT terminals are engineered for secure, unattended payment in challenging environments, making them ideal for aviation and marine fuel sites, industrial fuelling depots, and commercial operations.

As an authorised partner, Octane provides full turnkey installation, commissioning, and ongoing support for Unicode OPT terminals. Our team ensures seamless integration with your existing fuel dispensers, tanks, and payment systems, delivering reliable solutions that meet the highest safety and operational standards. ATEX-compliant versions optional.

Why choose Octane?

Choosing Octane for your Unicode OPT terminal installation means working with a trusted, certified partner who ensures quality, compliance, and long-term reliability.

Certified Expertise – Installed by recognised, authorised Unicode OPT specialists.

Secure and Compliant – Optional ATEX-approved payment solutions for fuel and fluid systems.

Seamless Integration – Compatible with a wide range of dispensers and storage systems.

Dedicated UK Support – Ongoing service and technical assistance from our in-house team.

Future-ready solutions

Whether you are upgrading an existing site, installing a new self-service fuel system, or expanding to multiple locations, Octane delivers a professional solution built around Unicode OPT technology. Our installations are designed for scalability, ensuring your operations remain smooth, secure, and adaptable to future demands.

Contact Octane today

Ready to upgrade your site with a Unicode OPT outdoor payment terminal? Contact Octane today to discuss your project requirements. Our expert team will guide you through the installation process, provide tailored recommendations, and ensure your solution is fully compliant, reliable, and future-ready.

Call us on 0113 2012 460, email us at info@octane.uk.com or fill out our contact form and one of our specialists will be in touch.

Take the first step towards secure, efficient, and professional self-service fuelling solutions with Octane Holding Group.

In the frame...

Public speaker, actor, film director and keen sportsman; we welcome Gilbarco Veeder Root's man for all seasons, Ant Norris.

Tell us about your present role

I've been GV-R Commercial Key Account Manager, Sales for the last 13 years. This involves equipment, solution and service selling opportunities across UK Key clients such as Tesco, Asda, BP, Rontec and EGOTM. Being part of a wider european team has given me the opportunity to work with many people across different countries, and also provided public speaking opportunities at industry and customer events, which I enjoy.

How did you get here?

After years of long hours and weekends in retail management, I decided on a nice "9 to 5 " job with GV-R. Fast forward 28 years with Gilbarco – and I'm still searching for it!

Your career to date

From aged 14 I have always worked: a paper round in all weathers on my BMX, my uncle's fruit n Veg stall, the Tesco deli counter. In 1989, I left college at 18 and joined a Tesco trainee store management scheme. I then moved to the position of Regional Manager for a retail sportswear company for 4 years. I joined GV-R in '97 and held numerous roles within the service division. 13 years ago, I switched to the "dark side" and started my role as Key Account Manager within sales.

Which role have you enjoyed most?

Key Account Management, Sales is without doubt the role I have enjoyed the most, though pressure is always on to hit numbers. I strongly believe that my experience in service has helped me understand customer needs and challenges.

What have been your biggest achievements? (modesty allowed!)

In 2015 I was asked to attend GV-R global head office in North Carolina to support the GV-R team. A different culture, new colleagues and customers helped give me a great experience plus great feedback from the US team.

Secondly, representing GV-R as key sponsor at the 2023 APEA awards. To introduce Jason Manford as the night's host was daunting. I walked on to the Star Wars theme and delivered a 3-minute speech with no fluffed lines, in front of a packed awards venue - the Force was with me!

In your spare time

I love most sports attending Wimbledon and England Cricket every year. Chelsea FC is my team, I play golf - but must have sun on my back, and play table tennis most weeks. Also my family keep me busy; especially two grandsons, Arthur and Fynn.

I am a huge film fan: Star Wars (the originals) plus Jaws and countless 80's and 90's movies.

In 2021, to celebrate the 40th anniversary of "An American werewolf in London" a friend and I had fun making a spoof version around Essex. This year I've seen Oasis, Coldplay, Lionel Richie and Simply Red. Seeing Oasis at Knebworth in 1996 and then Wembley in 2025 was just, as Liam would say, "Biblical" .

What are the most significant changes in the industry you've seen

Since 1997, remote technology changes have driven the industry to a better place for business and the environment. With AI and "the cloud" solutions providing technological advances almost daily.

Also, MOC strategy to reduce their COCO network has seen the rise of "super dealers"; fast moving entrepreneurs changing the landscape of our forecourts

What do you think the future holds for the fuels industry - How are you preparing for it?

The need for traditional fuel equipment on UK forecourts will continue up to, and potentially beyond, 2035. However, times are changing and my role is evolving to include EV, payment and solution technologies.

Where do you see yourself in say, 10 years

Retired! And looking to lower my golf handicap. No more, no less.

It's traditional to ask for your philosophy of life – or similar

"People do business with people"

Treating colleagues and customers with honesty, respect and at times humility will get any situation over the line.

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SPECIALISTS SINCE 1986

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Why modernising your forecourt is key to winning tomorrow's fuel customer

In an increasingly competitive fuel retail landscape, the condition of your forecourt is no longer just a matter of aesthetics, it's a strategic decision that directly impacts customer retention and revenue growth.

While price and location remain important, recent consumer behaviour research reveals that experience and environment are now critical drivers of customer choice.

The experience gap

Modern consumers, especially younger demographics, are drawn to stations that offer speed, convenience, and a clean, tech-enabled environment.

Studies show that 50% of customers would switch stations if a competitor offered a better experience. Among millennials, that figure rises to 60%.

Recent studies show that 50% of customers would switch stations if a competitor offered a better experience. Among millennials, that figure rises to 60%. This means that outdated pumps, dim lighting, and a lack of digital amenities could be silently costing you business.

Interactive features like the Gilbarco Veeder-Root Applause Multimedia displays that offer pump-side advertising are also proving effective. Nearly 32% of customers say these ads have influenced them to enter the store, and that number jumps to 46% among Gen Z and millennials.

If your station lacks these capabilities, you may be missing out on valuable in-store traffic and upsell opportunities.

Cleanliness and reputation matter

Another key insight is the growing importance of store cleanliness and reputation. While 59% of customers still cite fuel price as their top consideration, nearly 44% also enter the store, and their decision to do so is heavily influenced by the station's appearance and upkeep.

A clean, well-lit, and modern forecourt encourages customers to linger, spend more, and return.

Outdated equipment, on the other hand, can signal neglect and reduce trust.

Customers are less likely to enter a store, or even stop for fuel, if the station looks run-down or poorly maintained. In a market where every visit counts, this perception can have a direct impact on your bottom line.

The hidden cost of inaction

Delaying modernisation doesn't just risk losing existing customers, it also limits your ability to attract new ones. Today's consumers expect contactless payments, fast fuelling, and personalised loyalty experiences. Stations that don't offer these features are increasingly seen as inconvenient or irrelevant.

Moreover, as fuel margins remain tight, in-store sales are essential to profitability. If your forecourt doesn't invite customers inside, you're missing out on high-margin opportunities like snacks, beverages, and services.

A smart investment

Upgrading your forecourt is a strategic investment in customer engagement, operational efficiency, and long-term growth. Modern equipment dramatically reduces maintenance costs, improves uptime, and enables advanced features like real-time remote control and analytics, real-time inventory tracking, pay at pump solutions and data-driven marketing.

In a world where customer loyalty is increasingly tied to experience, the message is clear: modernise to maximise.

Ready to future-proof your forecourt? Start by assessing your current equipment, identifying high-impact upgrades, and exploring technologies that align with evolving customer expectations.

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Digital forecourts

The rise of integrated control systems

How unified platforms streamline operations and unlock new efficiencies.

The forecourt sector is entering a new era. Fuel stations are evolving into multi-purpose retail hubs shaped by shifting consumer habits, the rise of electric vehicles and the demand for seamless digital experiences. At the heart of this transformation lies the integrated control system, a unified platform that connects payment, media, surveillance and operational technologies to simplify operations and optimise workflows.

TSG UK Systems is leading this shift, offering a comprehensive suite of solutions that enable forecourt operators to manage every aspect of their site from a single interface. From electronic point-of-sale systems (EPOS) and self-checkouts to EV charge point terminals and digital signage, TSG's portfolio reflects the growing need for cohesion, speed and security in modern energy retail.

The shift towards unified operations

As forecourts diversify to include cafés, convenience stores, car washes and EV charging hubs, the complexity of managing these services has increased. Operators are now responsible for a wide range of equipment and customer touchpoints, often spread across multiple locations. Integrated control systems simplify this challenge by consolidating disparate technologies into a centralised platform.

TSG's Prizma EPOS is a prime example. It connects seamlessly with dispensers, payment terminals, closed-circuit television (CCTV), tank-level gauges, price signs and car wash systems, allowing site owners to monitor and manage operations efficiently. Prizma exceeds Payment Card Industry Data Security Standard (PCI DSS) requirements; encrypting customer data via a secure VPN and ensuring compliance with the highest standards of payment security.

When paired with Tokheim's Online Authorisation and Switching Environment (OASE), Prizma accepts all major credit, debit and fuel cards, delivering a fast and reliable transaction process. The system also facilitates digital receipts, reducing paper waste and contributing to sustainability goals. Retailers can easily manage user permissions, generate detailed reports and configure fuel grades and shop items, all from a single interface.

Enhancing customer experience through automation

Speed and convenience are now at the forefront of customer expectations. Long queues and manual transactions are no longer acceptable in a world where contactless payments and mobile apps dominate. Self-checkout kiosks respond to this shift by enabling customers to pay for fuel, groceries and car washes in a single swift transaction. A single employee can supervise multiple kiosks, reducing staffing costs and improving throughput.

For food service, the DFS Order Kiosk powered by FLYX streamlines ordering and frees up staff to focus on other tasks. Its sleek interface and omnichannel capabilities, including mobile app and table ordering, make it a versatile addition to any forecourt. The kiosk integrates with Prizma, allowing operators to utilise their existing infrastructure while enhancing customer engagement.

CoffeePay and CoffeePay Pro extend this convenience to self-service coffee stations, handling contactless payments and creating an opportunity to upsell. Customers can purchase additional items such as biscuits or bottled water, while retailers benefit from reduced staffing requirements and increased basket value. Similarly, CarwashPay and SelfwashPay offer intuitive interfaces for car wash purchases, complete with loyalty features and digital receipts.

Continued on page 18

Fuelling Convenience
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Streamlining Transactions for
a Better Customer Experience

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TSG

Continued from page 16

Meeting the demands of the EV market

As EVs become more prevalent, forecourts are adapting to new charging habits. TSG's ChargePay terminals provide a transparent and secure payment experience for EV drivers, accepting cards, mobile payments and QR codes. ChargePay Lite and ChargePay CIT integrate flexibly with all charging stations, supporting seamless transactions and customer engagement.

These terminals not only simplify the charging process but also promote cross-selling and loyalty initiatives, helping retailers maximise revenue from every visit. With centralised management via a dedicated portal, operators gain full visibility into transactions and customer behaviour. Customers can remotely monitor their charging sessions, receive instant digital receipts and benefit from tailored promotions.

Driving sales with digital media

Digital signage is another powerful tool in the integrated control ecosystem. TSG's T-Media platform allows site owners to deploy targeted promotions at the fuel dispenser, encouraging impulse buys and upselling premium products. In-store screens can highlight daily specials, manage perishable stock and display community messaging, reinforcing the site's local identity.

Strategically placed screens guide the customer journey, from entrance to exit, while scheduled content ensures relevance throughout the day. Whether highlighting coffee during the morning rush or refreshing drinks on warm afternoons, digital signage helps retailers influence purchasing decisions in real time.

Beyond marketing, dynamic content reduces perceived wait times, enhancing the overall visitor experience. TSG's expertise in installation and site planning ensures that screens are positioned for maximum visibility and impact. From single displays to multi-screen networks, TSG tailors each solution to suit the site's layout and business objectives.

Securing the site with smart surveillance

Security remains a critical concern for forecourt operators. The Tokheim EYE CCTV system offers high-definition monitoring with motion-activated recording, enabling real-time response to suspicious activity. Integrated with Automatic Number Plate Recognition (ANPR) and EPOS systems, the cameras capture detailed transaction data, vehicle registration and staff involvement, providing a comprehensive view of site operations.

Operators can filter footage by incident type, zoom in without losing clarity and access recordings remotely via smart devices. This level of control not only deters crime but also protects valuable infrastructure and helps safeguard staff. The system's ability to link footage with transaction data makes it a powerful tool for investigating incidents and preventing fraud.

The influence of fintech and data analytics

The rise of fintech has reshaped how consumers expect to pay. Digital wallets such as Apple Pay, Google Pay and PayPal are becoming mainstream, prompting site owners to update their systems to remain competitive. TSG's systems accommodate these payment methods, delivering a seamless experience across all platforms.

In addition, integrated EPOS systems provide valuable data insights that inform stock management, promotional timing and customer loyalty schemes. By analysing transaction data, operators can identify peak times, best-selling items and individual preferences, tailoring their offerings to drive repeat business and reduce waste.

Many forecourts now offer loyalty programmes that track customer purchases and preferences. This insight allows retailers to reward frequent shoppers, personalise promotions and build long-term relationships. The ability to harvest and analyse data from every transaction is a key advantage of centralised systems, turning routine purchases into strategic opportunities.

Safe and secure payments

Security is paramount in the digital forecourt. One isolated data breach can damage a retailer's reputation beyond repair. TSG's systems are designed to meet and exceed the standards set by the Payment Card Industry Security Standards Council. Prizma and OASE operate with advanced encryption, fraud detection and secure switching environments, ensuring that every transaction is protected.

As payment volumes increase and fraud techniques evolve, manual monitoring is no longer sufficient.

Artificial intelligence, biometric authentication and machine learning are now being employed to detect anomalies and safeguard customer data. TSG's commitment to data protection is evident in its robust compliance protocols and hands-on assistance for site operators

A trusted partner for the digital transition

With over 30 years of experience, TSG UK Systems is a trusted partner for fuel retailers navigating the digital transition. Whether installing PIN pads, self-checkouts, outdoor payment terminals or surveillance systems, TSG delivers end-to-end service, including staff training and seamless integration.

As the forecourt sector continues to evolve, integrated control systems will be essential in delivering the speed, security and intelligence required to thrive. TSG's unified platforms not only optimise operations but also unlock new efficiencies, helping retailers stay ahead in a competitive and fast-changing market.

Why more forecourt retailers are investing in EDGEPoS from Henderson Technology

As fuel retailing continues to evolve, so do expectations around convenience, speed and in-store experience. Forecourt operators today face mounting pressure to deliver on all fronts – ensuring seamless customer service, managing complex inventory and maintaining profitability, all while adapting to a shifting retail landscape. In today's retail environment, technology is no longer just a tool; it's a critical strategic asset.

That's exactly where Henderson Technology's EDGEPoS solution comes into play.

Designed specifically for the forecourt and convenience retail sector, EDGEPoS is a fully integrated, scalable retail management system. It combines core services like EPOS, self-checkouts (SCOs), electronic shelf edge labels (ESELs) and the Glory cash management system into one streamlined platform. For forecourt retailers, that means less complexity, better performance and a smoother experience for customers and staff alike.

Recent case studies at SPAR Magheramason in Northern Ireland and Dalmellington Service Station in Scotland reveal just how impactful the right retail tech can be. These businesses are using EDGEPoS to transform their operations, automate fuel sales and simplify everything from inventory management to transaction speed and reporting.

SPAR Magheramason: One system, one smarter store

A long-standing family-owned business, SPAR Magheramason sits along a busy road and serves both loyal locals and pass-through trade.

Established in 1966 and operated by the Allen family for generations, the store recently made two strategic moves: a rebrand to SPAR in April 2025 and an investment in Henderson Technology's EDGEPoS system.

The goal? To bring all retail functions, including fuel cards, PayPoint and till operations, under one cohesive platform. The Allens also sought faster transactions, better stock and price management and stronger tech support than their previous provider could offer.

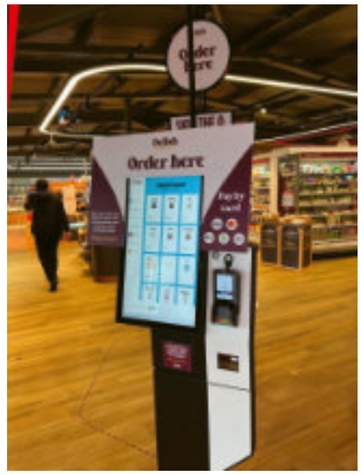
"EDGEPoS has completely transformed how we run the store," says owner John Allen. "Everything is now integrated – fuel cards, PayPoint, tills – which makes life easier for both staff and customers. The support from Henderson Technology has been second to none and we're already seeing the benefits in faster transactions and better control of the business."

One of the most immediate wins was transaction speed. Previously slow card payments have been replaced with rapid, accurate processing, cutting queues and improving flow during busy periods. Fuel card and PayPoint payments are now handled directly at the till, saving time and simplifying staff workflows.

Training was another highlight. Staff found the EDGEPoS system intuitive, supported by training videos and local, responsive customer support, making the transition smooth and stress-free.

"EDGEPoS has just made everything easier – it's all in one system now," John Allen continues. "Transactions are faster, the support is brilliant, and we've got much better control over things like reporting and wastage. It's been a really positive change for us."

Unlike their previous provider, which required calls to overseas centres with language barriers and long hold times, the Allen family now benefits from Northern Ireland-based support that's fast and effective. Forecourt pump issues, for example, are often resolved within minutes - without jumping through hoops.



The EDGEPoS platform has also upgraded reporting capabilities. Customised daily sales and fuel card summaries are generated automatically, while invoice and reconciliation processes are now more streamlined.

An added bonus has been the EDGEPoS reduction planner. By scanning product reductions at the till, the team now tracks waste, markdowns, and margins more accurately. This data-led insight has enabled better decisions around stock and pricing, helping to protect profitability.

Dalmellington Service Station: Scaling up with confidence

For Dalmellington Service Station in Scotland, the challenge wasn't solving existing problems - it was preparing for growth. Following plans to expand into an off-licence and broader product range, the team needed to modernise outdated manual systems that were no longer fit for purpose.

"We needed to modernise before expansion made things even harder," explains Director Brian Connolly. Inspired by successful EDGEPoS rollouts at other JET-affiliated stores, they implemented the system ahead of the expansion - a smart decision that helped ease the transition.

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Today, EDGEPoS has overhauled how the store handles everything from stock management and promotions to forecourt transactions and data reporting.

Before EDGEPoS, stock orders were handwritten and promotions were updated manually. Now, using handheld devices, staff can manage inventory on the go and react to demand in real time. Automated promotions and digital price updates have drastically reduced administrative workloads.

Integration with JET's forecourt technology also means fuel payments are seamless, with no delays at the pump.

Perhaps the most transformative benefit has been remote access and mobile data visibility. Managers no longer need to be on-site to monitor operations. This flexibility allows them to make agile, informed decisions from anywhere - whether adjusting stock levels, checking reports or planning next steps.

"Staff now spend less time on routine admin and more on customer service and merchandising," adds Store Manager Cara Templeton. *"These are the areas that directly influence satisfaction and sales."*

With the core platform working smoothly, Dalmellington is preparing to take the next step: introducing self-checkouts and ESELs. These additions will further improve speed, pricing accuracy and customer experience.

A partner, not just a provider

One of the most important factors behind EDGEPoS's growing reputation is Henderson Technology's commitment to long-term support. Retailers consistently highlight the depth of engagement they receive, not just at installation, but throughout their journey.

From layout planning to training and testing, Henderson Technology provides a consultative, hands-on onboarding experience. According to the team at SPAR Magheramason pump-related issues were resolved quickly, often within minutes, without needing to go through a long list of automated questions. This local, knowledgeable support has brought peace of mind and ensured the business remains operational even during technical hiccups.

This proactive approach ensures store teams are confident from day one. And crucially, ongoing support remains just as strong, whether it's remote

troubleshooting, refresher training or system upgrades.

At Dalmellington, this reliability was essential to their expansion. *"Any time we had a query or needed help, someone was there,"* says Brian Connolly. *"That kind of support gives you confidence to grow."*

As these case studies show, forecourt retailers aren't just buying technology, they are investing in future-proofing. With the retail environment becoming more complex and competitive, having a partner like Henderson Technology and a platform like EDGEPoS enables forecourts to stay ahead.

To learn more or book a demo, visit: www.henderson.technology or contact the team directly to explore how EDGEPoS can work for you.

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Extreme H debut Pioneer 25 at Goodwood Festival of Speed

with hydrogen fuel provided by Fuel Cell Systems Ltd

Extreme H, the world's first hydrogen-powered motorsport championship, made its highly anticipated public debut at this year's Goodwood Festival of Speed in July.

Marking a historic return to the site where its electric predecessor, Extreme E, first launched the ODYSSEY 21 race car in 2019, the championship unveilled its next-generation hydrogen vehicle, the Pioneer 25, in front of thousands of spectators

Fuel Cell Systems Ltd (FCSL) is the chosen refuelling partner at the event, ensuring the Pioneer 25. With over a decade of industry-leading experience, FCSL is delivering clean, safe, and efficient hydrogen energy using its advanced HyQube refueller.

The Pioneer 25 was refuelled with compressed hydrogen, with only water vapour emitted as a by-product. The refuelling process draws on FCSL's deep expertise in high-pressure hydrogen storage, dispensing, and on-site production via electrolysis—demonstrating the viability of zero-emission motorsport at scale.

Dr Lee Juby, CEO of Fuel Cell Systems commented:

"We're excited to provide a hydrogen refuelling service at Goodwood Festival of Speed for the third year in a row. In previous years we have also supported Toyota and BMW to refuel their hydrogen vehicles at the event. FCSL is a proud UK company, designing and building a range of refuelling products in our West Berkshire factory for cars, trucks, buses, trains and even planes."

More than just a race debut, this is a showcase of cutting-edge British hydrogen innovation. FCSL's involvement underscores the growing role of UK technology providers in shaping the clean energy future, both on and off the track.

The FOS Future Lab gives the public a chance to go behind the scenes, exploring the technology that powers one of the world's only hydrogen-fuelled race vehicles. FCSL's refuelling hardware and system design was on display as part of an interactive experience that highlights the entire hydrogen value chain—from production to delivery.

Rally star Catie Munnings, first to take on the hillclimb, said:

"To drive the hydrogen-powered Pioneer 25 at Goodwood is an incredible honour. This event is a landmark in motorsport, and showcasing this game-changing technology—especially alongside the expert team at Fuel Cell Systems Ltd—makes the experience even more special."

The event also featured a series of panel discussions hosted by Extreme H, where FCSL will join championship representatives, engineers, and drivers to discuss the future of hydrogen technology, motorsport innovation, and sustainable engineering.

As Extreme H leads motorsport into a cleaner future, Fuel Cell Systems Ltd proudly powers the journey—delivering real-world hydrogen solutions for one of the world's most demanding and high-profile stages.

The RTFA: Driving the uptake of sustainable, renewable fuels

We're often asked the differences in all these new fuels. We ran this article in an issue of The Green Pages several years ago (an overview of the range of sustainable fuels), but I really don't know that the industry is very well educated yet. With that in mind, I make no excuses in running it again and hope that it helps with your understanding of what's available and how it's used.

The RTFA is an organisation (born out of the Renewable Energy Association) specialising in the drive of the uptake of sustainable renewable and low carbon fuels. The voice of the UK's renewable liquid and gaseous fuel producers and suppliers.

These fuels are delivering valuable carbon savings today, and the companies that produce them will be the innovators and investors of the future. They will be making fuels for those sectors of transport that cannot ultimately be electrified, such as heavy freight, aviation and marine.

The PEIMF and the RTFA are developing a great understanding and here we introduce them to you, with a brilliant overview of the range of sustainable fuels out there.

The RTFA are calling upon Government to have greater ambition in the fight to reduce carbon emissions from transport.

BIODIESEL

Biodiesel achieves greenhouse gas savings of 87% – 92% compared to diesel. It is made from oil and fat-based waste residues and oil crops. Waste-based raw feedstocks are preferable, as these give the best greenhouse gas saving and sustainability.

First biodiesel produced from fatberg feedstock, mocked up to look like limited edition single malt whisky.

Standard diesel sold at forecourts contains around 7% biodiesel, and for this reason is known as B7. This fuel meets the EN590 standard for ultra low sulphur diesel. Higher blends (of 20%, 30% and even 100% can be used) and typically require some modification to the engine and fuel storage infrastructure. B100 (100% biodiesel) must comply with European Biodiesel Standard EN14214, whilst B20 and 30 must meet EN16709.

Some bus and truck manufacturers (OEMs) do not warranty the use of higher blends in their vehicles.

Argent tanker loading B100 for delivery to customers fuelling depot

This may be due to the required tests not having been done, rather than genuine concerns over engine impact.

Biodiesel is produced by reacting waste oil with methanol to produce Fatty Acid Methyl Ester. Glycerine is produced as a by-product. There are 3 biodiesel manufacturers in the UK, and all are members of the RTFA. The RTFA is keen to see more fleet operators using higher biodiesel blends, as well the biodiesel content of retail fuel increased from 7 to 10%

Inside the biodiesel production facility at Stanlow

BIOETHANOL

UK produced bioethanol can achieve GHG savings of over 85%. Bioethanol is made from fermenting starch rich biomass (such as feed wheat or corn). This process produces ethanol with by-products of CO_2 (which can be sold for use in the drinks industry) and DDGS.

DDGS stands for distillers' dried grains and solubles, and is a protein-rich solid which is used as an animal feed. Feed wheat is high-starch, low-protein grain, which is unsuitable for making milling flour for human consumption. The fermentation process turns the starch to alcohol and concentrates the protein in the animal feed by product. It's a virtuous circle, and of great benefit to UK agriculture, and means that we need to import less soy-based animal feed from South America. Bioethanol can also be made from water.

Nova Pangaea Technologies (UK) Ltd is developing technology for converting lignin-rich feedstocks into ethanol, along with high value chemicals.

The petrol sold on public forecourts in the UK contains around 5% bioethanol, but that should soon change. E10 (petrol with up to 10% bioethanol) is sold in many countries and the UK will follow suit this September.

Ensus UK and ABSugar make bioethanol in the UK, and Vivergo, also owned by Associated British Foods, has a plant which is currently mothballed, awaiting the introduction of E10.

BIOMETHANE (THE RENEWABLE EQUIVALENT OF NATURAL GAS)

Methane is increasingly used to fuel heavy duty vehicles in the UK. It is used in cars elsewhere (particularly in Italy) but this is not envisaged for the UK. Fossil methane, or natural gas, can achieve a GHG saving of around 15% compared to diesel, but the renewable equivalent, biomethane, can achieve savings in the region of 85% – 110%.

Biomethane achieves negative carbon emissions when produced from animal manure, as it is captured instead of being released into the atmosphere during manure storage. All biomethane supplied to vehicles in UK is dispensed from companies that are members of the RTFA.

A map showing the ever-increasing number of locations where HGV drivers can fuel with gas can be found at www.gasvehiclehub.org

Gas can be used either in compressed from or liquefied, and predominantly in >40 tonne HGVs. The cost of ownership and GHG benefits are greatest on the heaviest duty cycles.

Compressed biomethane requires more storage space on the tractor, and is generally used on 2 axle tractor configurations. Compressed biomethane is stored at pressures of [250bar], whilst liquified is stored at 5 – 10 bar but requires refrigeration at around -160C.

Compressed biomethane (CBM) may be supplied directly or via mass balance. LNG will always be mass balanced. Mass balancing in this context is putting biomethane in the gas distribution grid in one location, and taking an equivalent amount of gas out in another location, but having the sustainability characteristics of the biomethane follow the contractual pathway taken by the gas. Natural gas and Biomethane both pay a fuel duty of 24.7p/Kg and VAT at 20%. This fuel duty rate is fixed to 2032, with a review in 2024.

A Volvo tractor unit fuelled by liquefied biomethane

The RTFA - *continued overleaf*

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BIOPROPANE (RENEWABLE EQUIVALENT OF LPG

LPG is a fossil fuel, and biopropane is the renewable equivalent. RTFA member Calor Gas supplies biopropane for both transport and heating. Biopropane is a by-product of the production of HVO. LPG is a mixture of propane and butane and is a by-product of natural gas and oil extraction and oil refining. It boils at a low temperature and is stored in pressurised steel vessels such as gas bottles or bulk LPG tanks. It can be used as a vehicle fuel and is particularly used in forklift trucks.

DROP IN FUELS

Any renewable or sustainable fuel that can be blended with conventional fossil fuels at any level, whilst still meeting the relevant fuel standard (be that for petrol, diesel, aviation or gaseous fuels) is known as a “drop in” fuel. The Department for Transport regards renewable liquid drop in fuels that can be blended with petrol and diesel as strategically important; encouraging their development through the Renewable Transport Fuels Obligation via the development fuels sub-target.

To qualify as development fuels, these fuels must be made from wastes or residues, but not feedstocks that typically go to make biodiesel (i.e. not made from segregated oils or fats). Drop in paraffinic diesel can also be made from non-bio sources. For example; hydrogen can be reacted with CO2, to make methane, which can then be put through the Fischer Tropsh process. Shell does this with its GtL (gas to liquid) product using natural gas, but here we are talking about the renewable version.

A typical feedstock for producing drop in liquid fuel would be residual waste. This is a mixture of biomass waste and waste plastics that cannot be recycled. The resulting fuel would be partly renewable, and partly recycled carbon fuel.

HVO (HYDRO-TREATED VEGETABLE OIL)

HVO is a drop in fuel, closely aligned to the chemical composition of diesel and with identical performance characteristics; warranty concerns are therefore not an issue. The Zemo Partnership (formerly the LowCVP) did a study on high blend biofuels, and noted that 99% of the Euro VI HDV fleet is estimated to be compatible with HVO. GHG savings are typically around 90%.

HVO is made from similar feedstocks to biodiesel, but is more expensive to produce. Although HVO is 100% renewable it pays the same full fuel duty as diesel.

HYDROGEN

The attraction of hydrogen is that it has zero tailpipe emissions, and vehicles can be refuelled quickly and have a long range. Set against this are the energy losses involved in production.

There are various different ways of producing hydrogen, and the upstream (or “well to tank”) emissions vary significantly depending on the production pathway. Renewable hydrogen can be made by electrolysing water using renewable electricity. This is the simplest form of a ‘Renewable Fuel of Non-Biological Origin’ (RFNBO). Another route for making renewable hydrogen is from syngas produced from biomass, known as biohydrogen.

Hydrogen from steam – reforming natural gas requires carbon capture and storage in order to be a low carbon proposition.

For use in transport (i.e. in fuel cells) the hydrogen has to be extremely low in moisture and very high purity (99% plus). At standard room temperature and pressure hydrogen has one third the calorific value of natural gas and half the calorific value of diesel. Pressurising and then storing hydrogen in excess of 700 bar to enable high-pressure filling is energy intensive.

RECYCLED CARBON FUELS (RCFS)

RCFs are liquid and gaseous fuels made from unrecyclable fossil fuels e.g. plastics or industrial. There is great interest in producing transport fuel from end of life tyres. As car tyres are around 40% biomass-derived, and truck tyres have twice that amount of biogenic content fuel made from them would be part renewable and part RCF.

The Department for Transport is considering whether to include these fuels within the Renewable Transport Fuel Obligation and a consultation on changes to the RTFO is due soon.

RENEWABLE AVIATION FUEL / SUSTAINABLE AVIATION FUEL

The Renewable Transport Fuel Obligation has a specific sub-target for strategically important fuels, and aviation fuel is one. Aviation fuel has stringent specification criteria and fuels must be certified in order to be used in commercial flights.

There are a number of aviation fuels derived from biomass that have been certified, and several others are in the approval process. Renewable aviation fuels can also be made from renewable hydrogen or from recycled carbon sources, such as industrial off-gases e.g. from steel production. This process involves fermenting the off gases to make ethanol, which is then synthesised into aviation fuel via A2J (alcohol to jet) technology. Renewable bioethanol sources can also be used for A2J.

For further information on all these fuels, or on the organisation, go to www.rtfa.org

The Zemo partnership joins forces with the FIA

In collaboration with the FIA, the world governing body for motor sport, Zemo Partnership has developed a unique scheme to certify the use of sustainable racing fuel. This is a modified version of the now widely deployed Renewable Fuels Assurance Scheme, which has been established by Zemo. The first application of the scheme will be in the 2026 FIA Formula One World Championship.

The FIA has mandated the use of 100% sustainable fuel derived from 'Advanced Sustainable Components' from the 2026 Formula 1 season, ensuring that fuels come from sustainable feedstocks and that they also meet stringent greenhouse gas emissions thresholds.

The Sustainable Racing Fuel Assurance Scheme (SRFAS) has been developed by Zemo Partnership and the FIA to provide robust assurance of the deployment of sustainable, low carbon fuels in motor sport.

The scheme is designed to further encourage the deployment of low carbon fuels in the wider market. The fuel used in racing cars is a demonstration of the emissions reductions achievable and could be applied more widely to the existing fleet of vehicles. There are currently over 1 billion internal combustion engines (ICEs) worldwide. This development will provide a high-profile example of the emissions reductions that can be achieved through the use of certified sustainable fuel.

The scheme provides an independent and impartial framework for approving each batch of racing fuel produced by racing fuel suppliers. It is underpinned by a third-party verification process to ensure compliance with the FIA’s standards for the blended racing fuel and associated components. As the scheme manager for SRFAS, Zemo Partnership will oversee compliance verification working closely with accredited auditing companies.

Gloria Esposito, Director of Sustainable Business at Zemo Partnership, who has led the initiative with the FIA says:

“We’re delighted to be collaborating with the FIA on this innovative scheme which will help drive emissions reductions from the use of sustainable low carbon fuels in the FIA Formula One World Championship from 2026.

“I believe the worldwide appeal of Formula 1 will help raise awareness of the necessity to push towards net zero transport.”

Claire Haigh, Managing Director of Zemo Partnership, says:

“It’s vital that the renewable fuels used in ICE vehicles undergo robust sustainability verification to ensure they deliver clear benefits. I believe they have a significant role to play in decarbonising the UK’s vehicle fleet. We need to use ‘all the tools in the box’ to deliver the emissions reductions needed to achieve our targets.”

FIA President Mohamed Ben Sulayem:

“Innovation and progress go hand in hand and the FIA is at the forefront as we drive towards a sustainable future.

Alternative fuels are the next step, and today we are bringing a significant part of our sustainability vision to life with the availability of FIA-certified sustainable fuel, underpinned by an extremely robust procedure we can all be confident in. These on-track innovations continue to help grow on-road changes that impact each of us in our daily lives.”

Certas to expand investment in HVO, making it available at more depots

Certas Energy plans to further expand the availability of hydrotreated vegetable oil (HVO) at more of its depots across the UK. The company has recently increased its HVO storage and supply depot network by six and now has a total of 28 depots nationwide.

A member of Zemo Partnership's Renewable Fuel Assurance Scheme (RFAS), Certas says it aims to continue to broaden access to renewable fuels. An estimated one million litres of additional HVO will be added to the company's network to support the growing demand for sustainable fuels from UK businesses.

The latest investment also enables Certas Energy to increase the use of HVO in its own operating fleet by an extra one million litres, thus accelerating its decarbonisation plan and decreasing its carbon footprint. In the past year, Certas Energy has increased its sales of HVO by more than 60 per cent.

Richard Billington, Managing Director (Energy Solutions) at Certas Energy, said:

"I'm delighted to be confirming Certas Energy's continued and long-term commitment to supporting UK businesses. Today's announcement intends to reassure business operators and fleet managers that switching to high-quality renewable diesel has been made easier.

Broadening reliable access will continue to be a central part of our investment strategy, and we look forward to introducing additional HVO renewable diesel to our customers, to help decarbonise even more localities".

CERTAS ENERGY SUPPLY 300,000 LITRES OF HVO TO SILVERSTONE

This summer, for the second year in a row, Certas Energy partnered with Silverstone Circuit to supply Hydrotreated Vegetable Oil (HVO) at some of its biggest events at the home of British motorsport.

An estimated 350,000 litres of HVO will be used for the on-site generators at the track, powering mobile kitchens, lighting, stages for etc. at events such as the Formula 1 British Grand Prix and the Silverstone Festival.

The decision to switch to HVO is part of Silverstone's 'Shift to Zero' initiative, and it contributes to Formula 1's drive to be Net-Zero Carbon by 2030.

Certas Energy HVO is produced from waste and residue derived feedstocks, approved by the Renewable Transport Fuel Obligation scheme, which is audited by the Department for Transport, and can reduce carbon emissions by up to 90% (ref:Greenhouse gas reporting: conversion factors 2024 – GOV.UK).

Stephane Bazire, Head of ESG at Silverstone, said:

"Following a successful trial last year, I am delighted that the home of British motorsport has increased our commitment to renewable diesel this summer. Silverstone will continue to lead the way in lowering our carbon footprint as we accelerate in our race to Shift to Zero. Certas Energy has and continues to be a trusted and valued partner on this journey."

Darren Holloway, Commercial Director for Energy Solutions at Certas Energy, said:

"Certas Energy is a proud partner of Silverstone's exciting summer of racing events, and we are happy to have further strengthened our relationship with the venue this year. HVO is now a recognised and viable option for companies looking to reduce their carbon footprint in the short- and medium-term, and we expect more festivals and events to make the switch in the coming years."

Decarbonising road transport to help prosperity

The latest Zemo-convened Council for Net Zero Transport Quarterly Briefing, held in mid-September, focused on how decarbonising road transport can help to build long-term economic prosperity for the UK. Chaired by Lord Deben, leading industry experts exchanged views on how the transition to net zero transport can create thousands of jobs, upskill the workforce, cut congestion and pollution costs and foster innovation in sectors such as retail electricity.

Alongside Lord Deben - who is a former chair of the UK's Climate Change Committee - were Dyrr Ardash (Director of Business Development, Warwick Manufacturing Group), Catherine Bowen (Head of Decarbonisation and Future Mobility, BVRLA, Jamie Wilson (Head of Concepts and Advanced Engineering, Alexander Dennis) and Charles Wood (Director of Policy, Energy UK).

STABILTY & INVESTMENT

The panellists and invited delegates discussed how delivering green growth from decarbonising transport will require long term stability to facilitate new investment. While the Government's new industrial strategy provides greater clarity, UK manufacturers face particular challenges, such as higher electricity costs than European competitors as well as growing uncertainty as a result of US tariffs.

Low carbon industries also need a robust skills base. Immigration policy remains contentious, and growth in defence industries could draw talent away from low carbon transport.
At the same time, the sector must engage mass markets in tandem with government policies to boost demand for used EVs. The panel agreed that there is a need to bust some misconceptions, for example those around battery life.

CLEAR VISION REQUIRED

Zemo's Acting Managing Director, Jonathan Murray, stressed the need for the sector to set out its own clear vision for net zero, backed by coordinated engagement with government. Zemo will work with members and partners to make the case to DfT, DESNZ and mayoral authorities for the potential of 'green growth' in road transport and the policies needed to deliver it.

www.zemo.org.uk

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Biomethane Station Data
September 2025

ReFuels N.V., a leading European supplier of renewable biomethane (Bio-CNG) for the decarbonisation of heavy goods vehicles (HGVs), recently published Bio-CNG station data for September 2025.

- 5,223 tonnes of Bio-CNG were dispensed from CNG Fuels' 16 public access refuelling stations in operation, an increase of 15% from 4,543 tonnes in September 2024 (14 stations)
- Average daily dispensed volume of 174 tonnes, up from 151 tonnes dispensed per day in the year-earlier period
- A daily average of 2,099 vehicles refuelled across the station network, up 18% from 1,774 vehicles in the same period last year
- Prices for Renewable Transport Fuel Certificates (RTFCs) averaged 24.8 pence, up 21% compared to September 2024

"We report steady double-digit growth in dispensed biomethane volumes driven by our expanding refuelling station network and continued adoption of Bio-CNG as the decarbonisation solution of choice by UK fleet operators. In September, Tesco and Co-op, two of the nation's largest food retailers, announced the delivery of 42 and 30 new Bio-CNG trucks, respectively, thereby lowering fuel costs and unlocking a total of 8,000 tonnes of potential annual CO2 savings.

Currently, seven of the UK's top ten supermarkets are fuelling at our network. This validates Bio-CNG as the go-to solution for cutting HGV emissions today and supports our strategy of doubling the refuelling capacity by end-2028," said Philip Fjeld, CEO of ReFuels.

CNG Fuels had 168 unique customer fleets refuelling across the network in the three months ending 30 September 2025, compared to 163 for the comparable period in 2024.

In addition to Bio-CNG dispensing, CNG Fuels generates revenue from sales of Renewable Fuel Transport Certificates (RTFCs). CNG Fuels is awarded 3.8 RTFCs per kilo dispensed Bio-CNG, which are sold to fuel suppliers with a blending obligation. In September, the average price per RTFC was 24.8 pence, compared with 20.5 pence in September 2024.

CNG Fuels supplies biomethane through a growing network of refuelling stations, currently operating 16 public access Bio-CNG stations on major trucking routes in the UK. Two stations are moving into development, one near the M4 in South Wales, offering direct access to key freight routes for efficient east-west transport, and one in Swindon supporting efficient transport between London, South Wales and the Midlands.

ReFuels provides monthly operational updates, which are normally released within ten working days after the end of the month.

ABOUT REFUELS

ReFuels is decarbonising Europe's truck fleet through its 40% ownership of CNG Fuels – a fully integrated clean fuel infrastructure platform combining sourcing of renewable biomethane (Bio-CNG), Renewable Transport Fuel Certificates (RTFCs) and ownership and operation of the UK's largest clean fuel station network. By the end of 2028, the target is to have a capacity to serve 20,000 heavy goods vehicles per day, while the long-term ambition is to become Europe's leading integrated supplier of alternative fuels for commercial fleets.

For further information, please visit: **www.refuels.com**

TESCO GOES GREENER WITH BIO-CNG

Tesco has added 42 IVECO CNG trucks to its Scottish fleet – refuelling daily at CNG Fuels' new Livingston station between Edinburgh and Glasgow.

The station is located ajacent to Tesco's distribution hub and has capacity to refuel 600+ HGVs/day on 100% renewable biomethane. Each truck is expected to clock 200,000km annually, enabling potential CO_2 savings of up to 6,473 tonnes per year.

"These vehicles represent a significant step towards our goal of reducing emissions and achieving carbon neutrality in our operations by 2035," says Cliff Smith, Fleet Engineering Manager at Tesco.

FleetFob: Simplifying fleet safety and strengthening AIR-serv's legacy of innovation

For more than four decades, AIR-serv has been at the forefront of forecourt vending solutions across the UK and Europe. Known for its commitment to innovation, sustainability, and service excellence. Now, with the launch of FleetFob, AIR-serv is once again setting new standards in safety, compliance, and convenience for fleet operators.

Background: AIR-serv's market leadership

Founded over 40 years ago, AIR-serv has grown into a market leader by supporting supermarkets, oil companies, and independent forecourts with reliable air, jet wash, and vacuum equipment. With a network of over >20,000 machines across UK and Europe, AIR-serv provides the most extensive coverage, ensuring that millions of drivers can easily access essential vehicle services.

Sustainability lies at the heart of AIR-serv's operations. From designing energy-efficient machines that reduce water consumption to developing environmentally friendly wash concentrates, the company has consistently integrated sustainable practices into its operations.

Among its many initiatives are:

- 97% machine recyclability, ensuring end-of-life equipment is repurposed responsibly.
- Water efficiency, achieved through optimised wash systems.
- Reduced chemical impact, thanks to eco-friendly concentrates.
- Waste-to-value innovation, such as recycling wash containers into sustainable flooring materials.

These efforts reflect AIR-serv's recognition that sustainability is no longer optional, it is a necessity. Combined with continuous upgrades such as contactless payment systems and super foam Jet wash programs, AIR-serv helps forecourt operators modernise while aligning with consumer expectations for convenience.

FleetFob: A smarter way to manage fleet maintenance

Against this backdrop of innovation, AIR-serv introduced FleetFob, a dedicated service designed specifically for fleet operators. FleetFob allows drivers to access forecourt Air, Vacuum and Jet wash services using a simple, contactless fob.

The concept is simple but powerful: fleet managers provide drivers with FleetFobs, which are then used at any participating AIR-serv forecourt machine. No cash is required, no expense claims need to be filed, and every use is recorded centrally for streamlined invoicing.

By removing the barriers to regular vehicle checks, FleetFob helps companies maintain compliance with safety standards while reducing the administrative burden on fleet managers.

Safety first: Backed by TyreSafe

The launch of FleetFob has received strong backing from TyreSafe, the UK's leading tyre safety charity. With 28% of UK road collisions linked to mechanical defects such as under inflated tyres, the service addresses one of the most persistent risks faced by fleets.

Continued on page 26

UPGRADE

Your AIR-serv Vending Machines with a Card Reader Today!

For over 40 years AIR-serv has been a market-leading supplier of forecourt vending machines, operating in the UK and Europe with a strong commitment to sustainability and minimizing environmental impact.

Why Upgrade?

More Payment Choices
Cater to customers who prefer cashless transactions.

User-Friendly Touchscreen Display
Modern and easy to use.

Remote Monitoring & Diagnostics
Keep track of performance and issues in real-time.

Increase Revenue Potential
Cashless convenience encourages more transactions.

Appeal to More Customers
Attract a broader audience, including those who rarely carry cash.

Accepts All Major Payment Methods
Visa, Mastercard, Apple Pay and Android Pay.

Boost Security
Reduce cash handling and improve site safety.

Contact 01942 722 333 or email sales@air-serv.co.uk for more information.

MADE IN BRITAIN

AIR SERV
CUSTOMERS FOR LIFE

Continued from page 24

In 2023 alone, tyre failures caused 190 deaths or serious injuries on UK roads. By enabling more frequent and accurate tyre pressure checks, FleetFob has the potential to make a measurable impact.

Stuart Lovatt, Chair at TyreSafe, praised the initiative:

"FleetFob removes the barrier of personal expenditure, making it far more likely that vehicles will operate with correctly inflated tyres. This is crucial not only for road safety, ensuring optimal steering, braking, and cornering, but also for improving fuel economy, minimising emissions, and reducing uneven tyre wear. It is a significant step towards safer and more sustainable fleet operations."

Convenience meets compliance

From a driver's perspective, FleetFob is about simplicity. Instead of worrying about carrying cash or submitting expense reports, drivers can quickly and easily inflate their tyres or clean their vehicles at a nearby AIR-serv machine.

For fleet managers, the benefits are equally compelling:

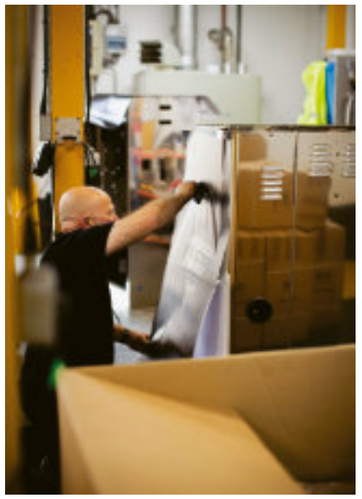
- One consolidated monthly invoice, reducing administrative overheads.
- Full visibility of usage, allowing managers to monitor and manage vehicle maintenance.
- Nationwide accessibility, thanks to AIR-serv's unmatched network of forecourt services.

The combination of convenience and compliance is a winning formula that blends safety with operational efficiency.

Supporting a changing market

FleetFob also reflects AIR-serv's ability to anticipate and respond to industry trends. With the rise of electric vehicles (EVs) and the ongoing digitalisation of fleet management, the forecourt industry is undergoing rapid change. Drivers expect modern, contactless solutions, while operators must adapt to shifting behaviours and regulatory pressures.

By combining digital convenience with sustainability, FleetFob positions AIR-serv as a partner for fleets navigating this transition. It ensures that essential maintenance services remain accessible even as the industry evolves.



Leadership and collaboration

Clive Steel, CEO of AIR-serv UK & Europe, summed up the ethos:

"Our aim is always to provide equipment and services that help our customers and keep millions of people safe on the road. FleetFob reflects that ethos, it makes it easier for drivers to check their tyres, reduces the administrative burden for managers, and leverages our extensive forecourt footprint to ensure practicality across the UK."

AIR-serv's story has always been about innovation with purpose, developing forecourt solutions that are sustainable, efficient, and customer-focused. With FleetFob, the company is extending this to fleet operators, helping them achieve safer roads, lower costs, and greater operational efficiency.

From reducing tyre-related accidents to eliminating unnecessary admin, FleetFob is more than a product, it's a platform for safer, smarter, and more sustainable fleet management. Backed by industry champions like TyreSafe, supported by customers like Autoglass and Greencore, and powered by AIR-serv's extensive network, FleetFob represents the next step in the company's journey as a leader in forecourt innovation.

Contact the team at: sales@air-serv.co.uk for more information.

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Istobal: Technology and design shaping the future of vehicle wash

With 75 years of experience, ISTOBAL has made innovation its driving force to lead the vehicle washing and care sector internationally. Since its inception, the company has been able to anticipate market trends, developing solutions that combine advanced technology, efficiency and sustainability.

This innovative spirit is reflected today in a revamped and connected catalogue, designed to maximise the profitability of facilities and offer an excellent user experience. Among its major commitments are the high-pressure jet washes and the M'WASH range of rollovers, designed to meet the current needs of the sector with a high level of customisation, connectivity and respect for the environment.

M'WASH RANGE: innovation & versatility

The M'WASH range is the result of years of experience and a firm commitment to innovation. Designed to adapt to a wide range of operational needs, it offers equipment that improves profitability, reduces environmental impact and provides an excellent washing experience for both the operator and the end user.

All models stand out for their high connectivity, which allows for easy integration into more efficient management systems, with access to information and centralised control to optimise resources and reduce downtime. In addition, their modular and customisable design facilitates the incorporation of multiple options, such as high-pressure systems, wheel washers and chemical pre-washes, and allows brushes, lighting and finishes to be configured to suit each business.

The M'WASH2 offers a compact and functional format, ideal for installations with limited space.

With up to 15 configurable programmes and an updated design with LED lighting, it combines low consumption and high performance thanks to its pre-wash, high-pressure and optimised dosing systems.

The M'WASH3 provides the perfect balance between performance and versatility. Its precise brush angle control and optimised drying allow each cycle to be adapted to the characteristics of the vehicle, improving efficiency and wash quality on all types of geometries.

The M'WASH3 PRO is the most productive and flexible solution, capable of being configured with 3 or 5 brushes without the need to change its structure. Its Perfect Balance system improves stability and reduces cycle times by up to 30% in the 5-brush model, making it the ideal choice for installations with high traffic volumes. It provides greater visibility and a sense of spaciousness, along with numerous customisation options available in a wide range of colours and styling details.

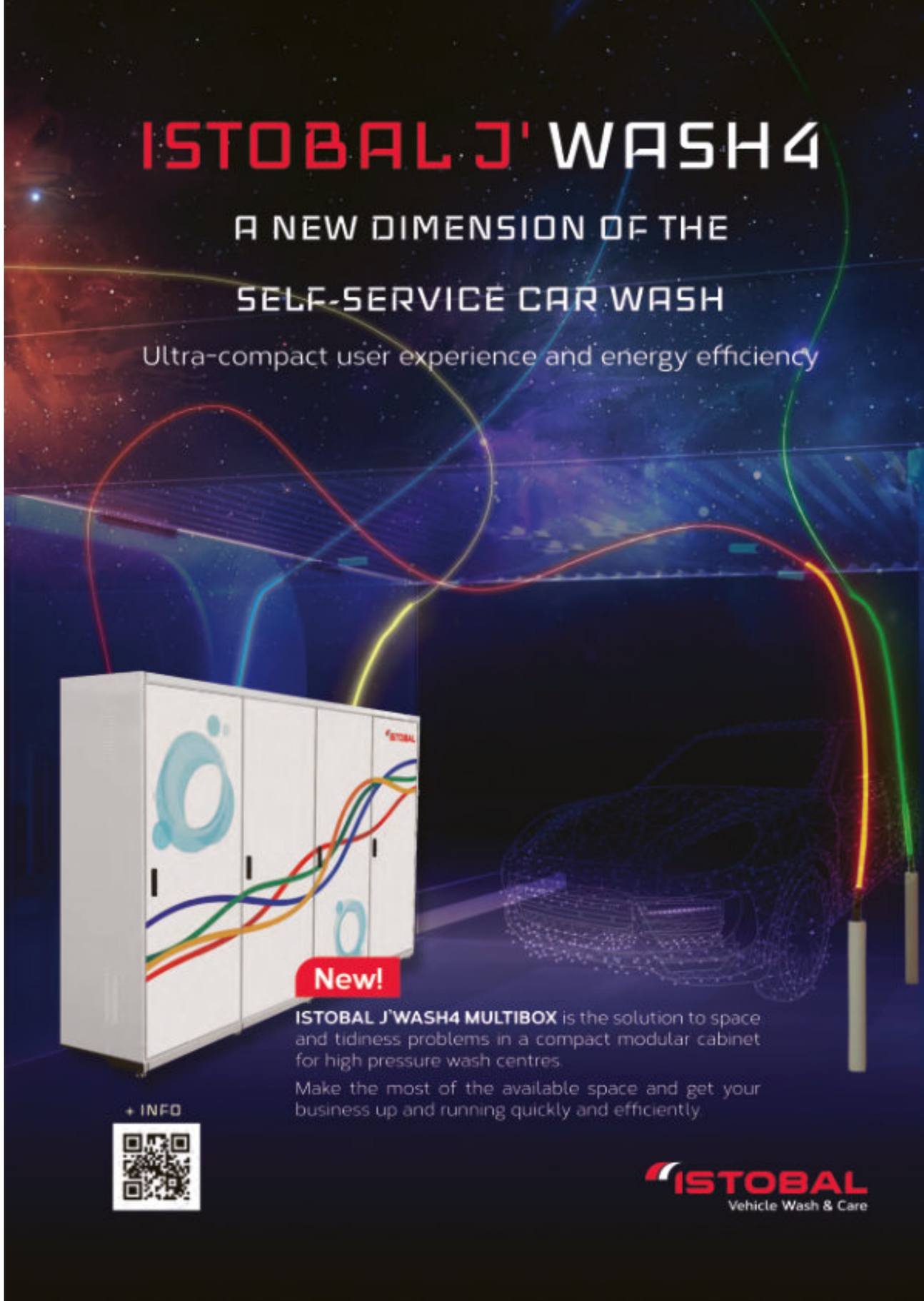
The M'WASH4 top of the range rollover provides the most effective and smoother cleaning on all vehicle surfaces, thanks to the most advanced brush system, which optimises adaptability to the profile of any car, intensity and movements to achieve a perfect finish in less time. It incorporates 360º rotating drying, dynamic chemical dosing and optimised hydraulics that allow significant savings in water and product. Its premium design and attention to the user experience make it a benchmark in the sector.

ISTOBAL J'WASH3: functionality & robustness

The latest ISTOBAL J'WASH3 is a functional and easy-to-maintain range of high-pressure jet wash solutions, ideal for medium and small installations focused on performance. The new model is available in two configurations to suit different installation requirements: MULTITECH, with a centralised technical room and MULTIBOX, in a compact modular cabinet. Both options have been designed to maximise space utilisation, facilitate installation and ensure easy access to technical components.

This is an entry-level, easy-to-maintain machine, specially designed for 2 and 3-bay installations looking for quality with an optimised investment. The J'WASH3 combines operational simplicity with mechanical robustness that guarantees maximum performance in small to medium-sized installations.

The new model is equipped with HAWK pressure pumps capable of delivering 11 litres per minute at 100 bar or 12 litres per minute at 120 bar. It includes 4 basic programmes (Shampoo, Rinse, Super Rinse and Stop) and allows the addition of up to 3 additional programmes (Low Pressure Pre-wash, Waxing, Active Foam Brush or Cannon à Mousse). *Continued on p30*



Continued from page 28

The J'WASH3 also features the PAY'BOX payment terminal, made of stainless steel and wall-mounted, offering great durability and ease of use. It also has advanced options such as a connection for hot water or ozonated water, an anti-freeze system using water loss or water recirculation, and the possibility of contactless card payment.

The equipment allows the incorporation of the Ozone Jet Wash, which reduces chemical consumption by up to 50% and significantly reduces brine discharge. Alternatively, an aerothermal boiler can be added to the installation to serve up to three bays, optimising energy consumption and reducing CO_2 emissions.

Commitment to digitisation & sustainability

At ISTOBAL, digitalisation and customer focus are strategic pillars that drive every development. The incorporation of connected technologies allows us to optimise processes, reduce costs and offer a more agile and precise service. All this is combined with a firm commitment to sustainability, applying solutions that reduce water, energy and chemical consumption, while improving operational efficiency. This philosophy is also reflected in the company's jet wash systems, designed to offer high performance, adaptability and a superior user experience.

With its ISTOBAL integrated solutions, the company reinforces its commitment to customer focus and operational excellence. By integrating advanced technology, digital connectivity, and sustainable practices, ISTOBAL provides comprehensive support that goes beyond equipment supply, ensuring tailored solutions for every client and installation. This holistic approach strengthens profitability, optimises performance, and guarantees a superior user experience, consolidating ISTOBAL's position as a trusted partner shaping the future of vehicle wash worldwide.

ISTOBAL: leader in the vehicle wash and care sector

ISTOBAL is a Spanish company based in Valencia, Spain, and a leader in the design, manufacture and marketing of vehicle wash and care solutions. Since 1950, the company has provided the sector with innovative products for excellent vehicle care that guarantee an excellent user experience.

The group exports its products to more than 80 countries, working with an extensive network of distributors worldwide. With sixteen subsidiaries and four manufacturing plants in Europe, America and Asia, ISTOBAL is currently the second largest manufacturer of vehicle washing solutions in Europe and the fourth largest worldwide. Currently, 70% of its production corresponds to international sales.

VARS Technology becomes Secured by Design member

Forecourt and retail security specialist VARS Technology has become a Secured by Design Member Company, the flagship UK police initiative to help 'design out' crime using high-quality, innovative products and processes. VARS Technology received the accreditation for their market-leading ANPR solution, used to protect forecourts from drive-offs.

In order to achieve Secured by Design (SBD) status, VARS Technology had to meet rigorous testing standards as required by the police and has now been accredited as meeting the Police recognised standards. Secured by Design is the only way for products to achieve police recognition in the UK, and principles of SBD has been proven to reduce both the risk and fear of crime. Developments that employ SBD principles are up to 63% less likely to experience crime. The Secured by Design brand is owned and operated by Police Crime Prevention Initiatives on behalf of UK police services.

VARS Technology's ANPR solution provides forecourt staff with instant notifications when a blacklisted vehicle enters a site. This allows staff to avoid drive-offs before they happen, by refusing to release the pump for known fuel thieves – unless they pay in advance.

For drivers intending on stealing fuel, this typically results in them leaving the site to look for an easier drive-off target. Users of the VARS ANPR system have stated that it reduces the number of drive-offs they experience by as much as 90%.

When drive offs do still happen, VARS Technology actively pursues offenders and recovers the cost of stolen fuel on their behalf. VARS recovering their costs from drivers means that forecourt operators receive back the entire value of any stolen fuel.

VARS Technology Director John Garnett said:

"We have worked extremely hard for the past six years to develop the VARS ANPR system into the "market-beating forecourt protection system" it is today, so it is great to have that hard work recognised. Forecourt crime has been a hot topic recently, with a consensus that it will take a collective effort from forecourt operators, security providers and police forces to address the issue. If this membership helps us work more closely with police forces, then everyone benefits."

https://www.securedbydesign.com/
https://www.varstechnology.co.uk/

Are your contractors PEIMF+ members?

PEIMF+ is the key body representing organisations in the downstream petroleum industry.

01474 321999 • info@peimf.com • www.peimf.uk

Expanding Ancorra decontamination alert

Ancorra Environmental have many exciting developments to announce as they continue to expand and evolve.

During a recent job at Barrow in Furness, our engineers were required to attend a site with numerous Interceptors to carry on the periodic Interceptor PPM's which included replacement of their coalescing interceptor filters.

Ancorra's Regular maintenance prevents a buildup of silt, which, if left to accumulate, can lead to Interceptor failure and further problems within the site drainage system.

Interceptor cleaning

Silt and sludge contamination was uplifted using our specialised multipot jetvac tankers. Alongside removing the waste from the insides of the interceptor chambers, they were thoroughly jetwashed clean.

Visual evidence of this procedure was taken throughout the process.

Our engineers carried out a confined space entry on the majority of the interceptor chambers to carry out a detailed internal inspection using specialised safety equipment and removed any remaining contaminants.

Maintenance

Using specialised HIAB crane equipment, the engineers were able to extract the spent coalescing filter through the interceptor chamber for safe disposal from the site.

Once the final clean of the interceptor and removal of all contaminants had been completed, the replacement coalescer filter was lowered back through the chamber, supported by the Hiab and anchored to the bottom of the chamber as required.

Ancorra Environmental are proud to announce its expanded online programme!

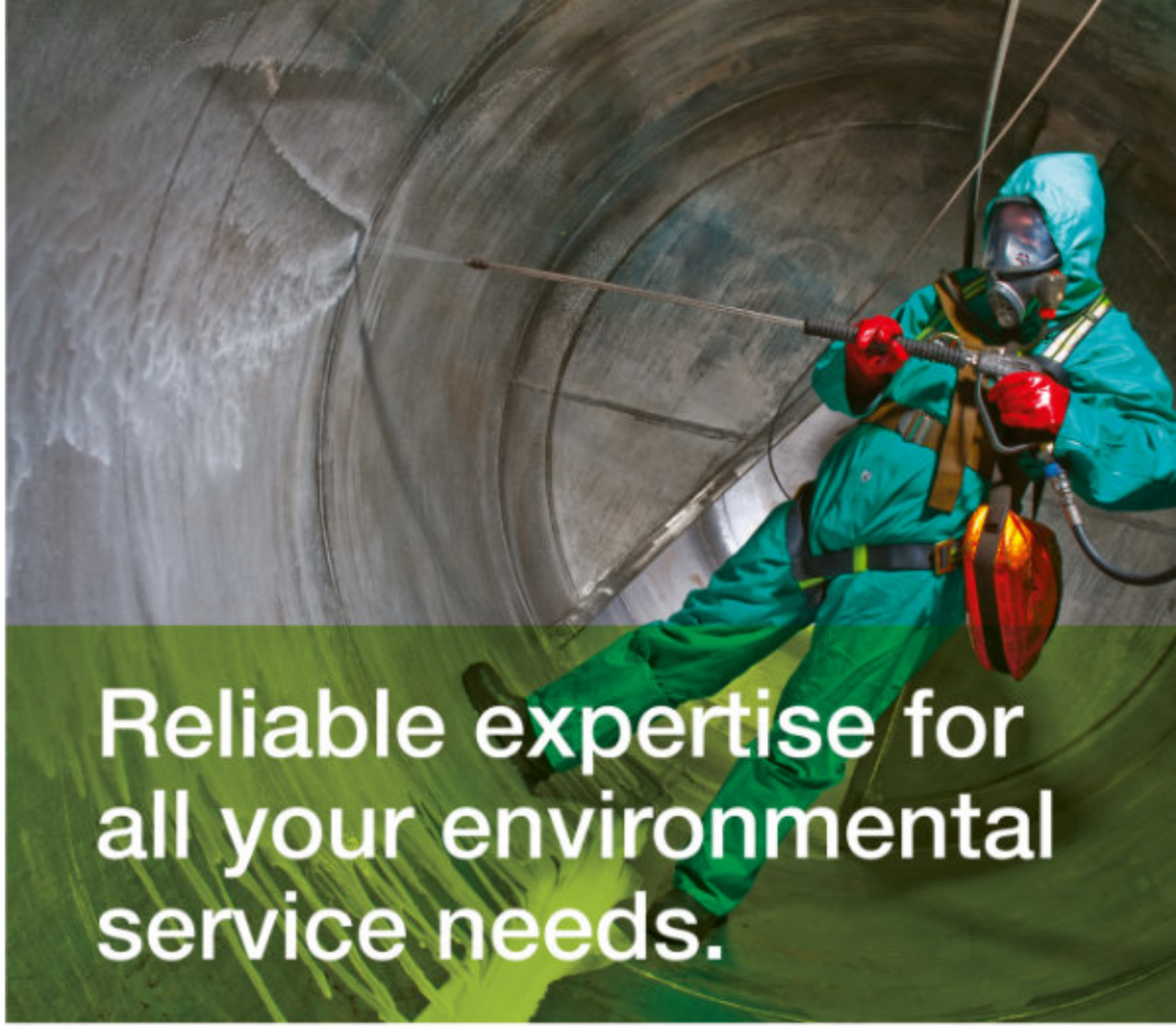
Our website has been updated with a brand new user interface to make learning more about us simpler and intuitive.

Other Services:

Ancorra Environmental not only provides interceptor maintenance but also the following services:

- **Tank decommisioning**
- **Foam injection concrete infilling**
- **24/7 emergency response teams**
- **Fuel polishing**
- **Civils and maintenance**
- **Forecourt services**
- **High/medium/low risk tank cleaning**
- **Site decomissioning**
- **Tanker services**
- **Hazardous/non hazardous waste disposal**

To learn more about Ancorra Environmental and the services we provide, contact us at 0151 546 3012 or view our updated website at www.ancorraenvironmental.co.uk!



- Tank and vessel cleaning
- Interceptor cleaning
- 24 hour emergency spill response
- Fuel uplift & transfers
- Grade changes
- Fuel recycling
- High pressure jetting
- Foam filling
- Tank decommissioning and removal
- Water filling and dewatering
- Waste management
- Forecourt maintenance

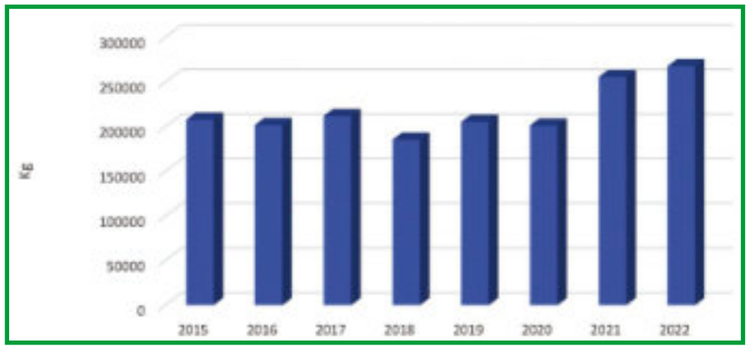
For more information about Ancorra Environmental Services

ancorra environmental services

ancorraenvironmental.co.uk 0151 546 3012

NUPI committed to reducing greenhouse gas emissions (CO_2)

As a global manufacturer of plastic pipework, NUPI recognises its responsibility to act in reducing the environmental impact of its activities, by working towards environmental sustainability.

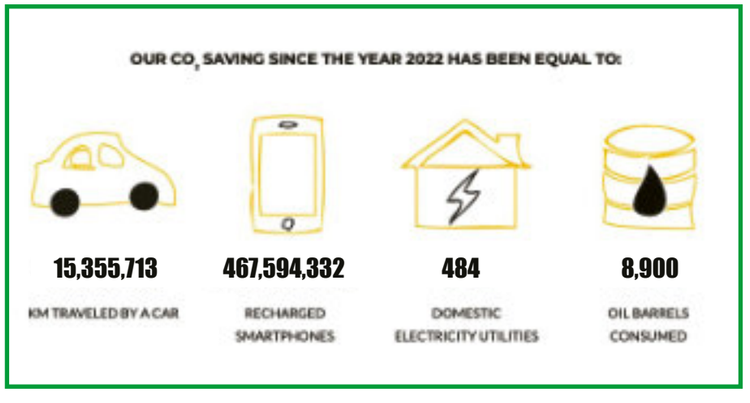


Being aware of the environmental impact of the organisation is key. This is the first step in understanding how to contain emissions, plus the energy measures needed to be introduced in order to reduce energy consumption.

Back in 2022, thanks to energy efficiency improvement, NUPI avoided emissions of CO_2 equivalent to the emissions of over 800 cars in a year, or the consumption of 8,900 barrels of oil, or the charging of almost half a billion mobile phones

By the end of 2023, NUPI had prevented over 500 tons of CO_2 emissions being released into the atmosphere (see chart above).

NUPI's CO_2 saving since 2022 has been equal to:



NUPI was awarded the **ISO 14001 Environmental Management System Certificate** after demonstrating its commitment to sustainable management within its supply chain.

The new ISCC PLUS - International Sustainability & Carbon Certification scheme

This is an international standard focused on the concept of circular and sustainable economy. In particular, the ISCC certification focuses on checking the traceability of recycled materials of fossil origin (Circular) and recycled materials of vegetable origin (Bio-Circular). This is based on the principles of mass balance accounting principles.

The ISCC PLUS certification is, therefore, a certification system of the sustainability of a fully traceable supply chain.

These are the KEY POINTS of the ISCC PLUS certification:

- Traceability in the supply and transformation chains of circular and bio-circular products (and related finished and intermediate products)
- Implementation of environmental, social, and ecological sustainability criteria
- Improved environmental management and increased biodiversity.

Modernisation of production

NUPI have undergone complete modernisation of the production plants, including a timely recovery policy for processing waste.

The most important part of reducing the company's impact on the environment is the use of alternative energies.

Photovoltaic systems

NUPI factories are equipped with photovoltaic systems resulting in significant energy savings and a consistent reduction of CO_2 emitted.

LED lighting

Following the energy audits carried out in its production plants, since 2017 the company has undertaken a campaign of progressive replacement of traditional industrial lamps with LED lamps.

High efficiency cogeneration system

NUPI installed modern tri-generation systems in their plants, for the combined production of electrical and thermal energy; in a high-efficiency cogeneration (CAR) regime and with nominal power of 1702kW in their plants.

NUPI Industrie Italiane understands the value of sustainability, and has for some time now adopted a policy aimed at reducing its environmental impacts.

Environmental piping

One of the most important features of this action was the implementation, in 2018, of a dedicated EPD TOOL, for the creation of the Environmental Product Declarations (EPD) of its piping systems.

This tool allows NUPI to calculate and report the environmental footprint of its main products and production processes. This is with the aim of reducing the potential environmental impacts associated with its activities, objectively and transparently.

Thanks to the environmental product declarations, NUPI can also analyse both the life cycle of the products and the activities carried out by the company; identifying the areas on which to intervene to reduce and offset greenhouse gas emissions.

The aims of reducing and offsetting these emissions concern raw materials:

- The purchase of electricity 100% generated from renewable sources
- The replacement of plastic packaging with paper or plastic (as much recycled as possible)
- The activation of a virtuous system for the recycling and recovery of pre-consumer waste and process water.

With regard to energy consumption, it is important to note that, in relation to most of the other materials used for the production of piping systems (steel, copper, cast iron), plastic pipes consume less energy for their production.

They are also extremely durable (100 years) and require minimal, if not non-existent, maintenance and repair interventions, as they are not subject to wear, fatigue and corrosion, typical of metallic materials.

NUPI's commitment to the environment and future generations

Reduction of energy requirements

Constant improvement of the company's performance and resources.

Process optimisation:

- Eco-sustainable product design, digitisation of activities, selection and procurement of sustainable packaging materials, strategic and responsible selection of its suppliers
- Promotion of policies to generate awareness. So people, at all levels, understand that their choices today will build the future of our planet.

This is NUPI's commitment to the environment and future generations.

www.nupiindustrieitaliane.com

Ground-level AdBlue® fill solution for excavators

Unveiled by Commercial Fuel Solutions

Innovative ground-level AdBlue® fill solution for Volvo excavators, eliminating the need for operators to climb ladders with heavy cans and improving safety and efficiency on construction and quarry sites

The system is powered by the vehicle's own 12V supply, features automatic shut-off, and has been successfully deployed by SMT and Chepstow Plant, who report significant operational and safety benefits

Commercial Fuel Solutions Ltd has launched a pioneering ground-level AdBlue® fill solution, developed to enhance safety and ease of use for heavy machinery operators. The innovative system eliminates the need for operators to climb ladders with 10-litre AdBlue cans to refill up to 70-litre tanks mounted 2.5 metres off the ground, a task that would have to be done weekly. Instead, it allows AdBlue to be dispensed quickly and safely from ground level using a bowser.

Ideal for quarries

Specifically engineered for rugged environments such as quarries and construction sites, the system has already been installed on a range of Volvo excavators, including the EC750, EC380, EC480 and EC400F models, and can also be fitted to the EC500F.

It mounts ergonomically onto the excavator, with a compact, vehicle-mounted pump and control panel that draws power from the machine's own 12-volt electrical supply. A robust dry break interface and external control panel enable operators to refuel without accessing elevated or unstable areas. A built-in on-intrusive level switch provides automatic shut-off to prevent overfilling.

James Lovelock, Senior Design Engineer at Commercial Fuel Solutions, says

"No more balancing on ladders or hauling heavy cans. This solution puts operator safety first without compromising productivity. It's powered directly from the machine, with automatic shut-off to prevent overfill, making it smart, safe, and seamless."

Matt Jennings, SMT Major Account Manager, commented:

"The safety benefits of a ground level AdBlue fill solution for operatives in the Quarrying and Aggregate sector are a game changer! Thanks to the hard work and perseverance of the SMT team at the Machine Preparation Centre in Immingham, and Commercial Fuels Systems' team the industry is a safer place to work.

"This complex project bridged across two generations of Volvo CE excavators, providing a solution tailored to each excavator size and available space within the machine's toolbox compartment. This negates the need to climb on machine track pads and platforms whilst carrying heavy canisters of Diesel Exhaust Fluid (DEF). Since release as a third-party option by SMT Great Britain, more customers have begun adopting this safety-enhancing solution."

Ian Staples, SMT's Product Compliance Officer said:

"In May 2022, Chepstow approached SMT to develop a one-man, ground-level AdBlue fill solution with auto shutoff. Recognising the complexity of this task, I was confident that Commercial Fuel Solutions would have the right expertise to partner with to deliver a safe and effective solution, supporting a safer way of working for Chepstow's operators."

Cath Pickett, SHEQ Director at Chepstow Plant said:

"This simple solution, eliminating foreseeable daily work at height events will make a significant difference to the safety of both Chepstow plant operator and client operators. Our ambition to take the lead on this will see real change filter down to the industry, making refuelling excavators safer for all".

The ground-level AdBlue® filling system from Commercial Fuel Solutions is now available for deployment across a wide range of excavators and heavy-duty plant vehicles, with retrofit options available for existing fleets.

Specialists in many industries

Founded in Southampton in 2007, Commercial Fuel Solutions Ltd specialises in designing, developing, manufacturing, and distributing fuel storage and transfer systems across various industries. Renowned for their durability, performance, and reliability, their systems drive innovations in technology aimed at reducing harmful emissions and preserving the environment.

The company's senior engineers actively participate in influential working groups, holding key roles such as technical committee members in prestigious organisations including BSI, ISO, SFEM, PEIMF+ and the UK Spill Association. Through these positions, Commercial Fuel Solutions contribute significantly to the development of technical guidance utilised nationally; including the renowned Energy Institute & APEA's Design Construction Modification and Decommissioning of Filling Stations, commonly referred to as the Bluebook.

Commercial Fuel Solutions provides custom-designed solutions for sectors including Rail, Quarry, Marine, and Motorsport, where it caters to diverse industry needs. Customers include prestigious entities such as Formula 1 teams, NASA, and defence organisations like the US Air Force and the Royal Navy, as well as industry giants like Shell and Jaguar Land Rover.

They are the UK's leading independent AdBlue supplier, serving 1 in 50 of HGVs on UK roads.

Why using plural-component spray technology is the only sensible choice for storage tank lining

When it comes to protecting critical storage assets, the application of a tank lining is just as important as the coating itself. A high-quality coating, applied poorly, will fail just as surely as an inferior coating. At Abfad Ltd, we combine leading-edge solvent-free coatings with the most advanced application method available; plural-component spray technology.

While many lining companies continue to rely on traditional methods, we have invested in plural-component spray equipment, because we believe our clients deserve the most effective application technique. This coating application technology is one of the many reasons why Abfad stands apart as a leader in the tank lining industry.

Why some companies avoid plural-component technology

Plural-component systems represent a major step forward in coating application, but they are not for everyone. Many contractors avoid them because:

The equipment is expensive

Plural component machines are sophisticated systems with pumps, heaters, proportioners mixers, two paint lines to a manifold from base and activator, one line from manifold with paint mix mechanism to spray gun. They require a substantial financial commitment compared to standard spray pumps.

Many competitors prefer to use traditional equipment due to cost difference and complexity of operation and maintenance.

They demand specialist training

These systems must be operated by skilled applicators and mechanical trained personnel who understand ratio control, material heating, hose balancing, and quality checks. It takes time, investment, and expertise to build a workforce capable of using them properly.

They impose stricter quality controls

With plural spraying, there is no hiding from bad practice. Ratios must be correct, pressures must be balanced, and operators must be conscientious. Plural component spray unit are designed to shut down if and mix ratio differs from settings input into computer. Many contractors prefer to operate traditional spray paint pumps and apply solvented paint as these coatings do not take the same level of maintenance or expertise, however these coatings break down over time due to the solvent release and need constant re-application.

In short, competitors avoid plural-component systems because they require investment, discipline, and full-time commitment. At Abfad, we embrace all three requirements, because protecting our clients' tank storage assets ensures a consistent finish, superior paint adhesion

and long term durability. This method eliminates the reliance on solvent carriers; resulting in higher quality standards, reduced environmental impact and safer working conditions.

Why Abfad have embraced plural component technology

By adopting plural-component spray technology, Abfad not only delivers outstanding results for our clients but also demonstrates our commitment to sustainability, innovation, and best practice across all projects.

Here's why that matters:

Accurate proportioning

Plural systems automatically meter and mix multiple components in exact ratios; something impossible to guarantee with hand-mixing. This is important as it guarantees every square metre of lining has the correct chemical balance. No soft spots or brittle areas that compromise durability and longer service life with fewer failures.

For clients, this translates into reliability and peace of mind.

On-demand mixing

Unlike traditional pot-mixing, plural systems only combine the coating components at the spray gun. This prevents premature curing in the lines or in the pot. The result is no wasted product. No rush against pot-life deadlines. And, importantly, consistent application from the first spray to the last.

For clients, this means better value, less waste, and consistent quality from start to finish.

Uniform film thickness

Achieving the correct dry film thickness (DFT) is critical for lining performance. Too thin, and corrosion breaks through. Too thick, cracks can occur. This is where plural-component spraying excels as it gives smooth, even coverage across large areas, in one application. It allows for reliable application on floors, walls, weld seams, and hard-to-reach areas. Spray coating in this manner gives a reduced risk of pinholes, holidays, or defects in the applied coating.

For clients, this ensures complete, dependable protection throughout the tank.

Faster return to service

Plural machines are capable of spraying one coat, fast-curing coatings that simply can't be applied using traditional solvent spray pumps. Plural Component Spray Equipment is able to deliver rapid application of large areas with faster curing times, greatly reducing tank downtime and minimal disruption to site operations.

For clients, this means more uptime, less lost revenue, and faster project completion.

Safety and environmental benefits

Plural Component Spray systems operate as closed systems, reducing operator exposure to hazardous chemicals and less handling of solvents and reactive materials.

Having cleaner, safer, and reduced environmental impact this technology represents a responsible approach to projects in today's climate which is an important consideration for all clients looking to minimise the environmental impact of their operations.

For clients, this means work carried out to the best safety and quality standards with reduced environmental risk.

The advantage to the client is clear

Abfad invests in technology other fabric maintenance companies avoid. By choosing us, clients benefit directly from our commitment to reducing climate impact:

- Lower carbon footprint: solvent-free coatings applied with plural component equipment reduce emissions and energy use compared to solvent-based systems.
- Improved air quality: elimination of solvents means fewer harmful volatile organic compounds (VOCs), creating safer working environments and protecting surrounding communities.
- Sustainable solutions: long-lasting, high-performance coatings extend the service life of storage tanks, reducing the need for repeat applications and conserving resources.
- Compliance and reputation: clients can demonstrate alignment with environmental regulations, ESG (Environmental, Social, and Governance) goals, and climate change commitments by working with a contractor using greener technology.
- Future-proof investment: sustainable practices today ensure resilience against tightening environmental standards and position clients as leaders in responsible operations.
- Reduced downtime: storage tanks lined quicker, cured faster, and quickly back in service.
- Lower lifecycle costs: fewer failures, fewer shutdowns, and less money spent on relining or repairs.
- Guaranteed quality: every lining applied with precision, consistency, and full quality assurance through the computer operated spray equipment.

Difference with intent

Plural-component spray technology isn't just a tool, it's a statement of intent. Abfad is committed to quality, willing to invest in the best, and determined to give their clients results that others cannot match.

Many companies avoid plural component method of application because it is more demanding, more complex, requires more expertise, and over ten times more expensive than traditional spray equipment, but that is exactly why Abfad use it, because we know that when the stakes are high, "good enough" simply isn't good enough.

At Abfad, we like to lead where others follow. And when it comes to protecting your storage assets plural component spray application is the leading and superior choice for tank lining solutions.

www.abfad.co.uk

Directory of PEIMF+ members

A & G Group Ltd
01579 344503
www.aggroupltd.co.uk
Electrical and tank testing, supply installation and servicing of pumps

A & R Pavelin Transport Ltd
01268 270470
Distribution & collection of pumps and forecourt equipment

AbFad Ltd
0191 543 7166
www.abfad.co.uk
Tank linings, leak detection, rope access

Adaptive Applications
+44 7771 590 294 /
+48 504 004 400
www.adaptive-service.com/en
Specialist SaaS field service software solution serving the fuel forecourt & retail sector.

Adler & Allan Ltd
01992 657400
www.adlerandallan.co.uk
Tank cleaning & lining, VR testing, fuel polishing, sampling & analysis. Spill response

Aidan Strain Electrical Engineering Ltd
02830 888861
www.aseeltd.com
Electrical & mechanical generator installation contractors

Air-Serv
01942 722333
www.air-serv.co.uk
Air lines, jet wash, vacuums, servicing, chemicals

Alpha Eco Ltd
01698 882045
Construction & pipework installations for petrol filling stations and reactive maintenance

Ancorra Environmental Services Ltd
0151 546 3012
www.ancorraenvironmental.co.uk
Forecourt maintenance, tank & vessel cleaning, foam injection

Andel Ltd
01484 845000
www.andel.co.uk
Pollution control, tank & fuel maintenance

Andrew Simpson Electrical Services
01772 616826
Electrical contracting & maintenance in hazardous areas

Arnold Diggle & Co
01229 582769
www.arnolddiggleandco.co.uk
Tank cleaning, oil depot decommissioning/ demolition & remediation

Baltor Systems
02890 603232
www.baltor.co.uk
Design, supply & installation of fuel equipment

4BG Group – British Gaskets Ltd
www.british-gaskets.co.uk
01787 881188
Manufacture gaskets, mouldings, sealing materials, metal components, service kits

Berrys Technologies Ltd
0121 558 4411
www.berrys.com
MIDAS, OP, USpump spares, pipework, tank lid assembly, forecourt equipment

Membership code of ethics

In addition to our complete review of the PEIMF+ constitution, we have also had a team dedicated to reviewing and updating our members' code of ethics.

All membership renewals will be accompanied by this document, as all member companies are expected to agree with, and adhere to, these principles:

OUR AIMS AT ALL TIMES ARE:

- To provide the best possible service to our clients and customers.
- To observe superior standards of conduct in our dealings with clients, customers and peers regarding integrity, fairness and honesty.
- To maintain a strict duty of confidentiality of our clients' affairs.
- To acknowledge that contracts should be fair to all parties and, where appropriate, to settle disputes by voluntary agreement or impartial arbitration.
- To continually strive to achieve best practices and methods relevant to our industry.
- To provide superior quality leadership, materials and workmanship to the best of our ability.
- To undertake to share best practices and learnings with other members thus promoting our 'Working Together' philosophy.
- To show that, by virtue of membership of PEIMF+, the members have and do signify their commitment to the above principles.

Birchel Construction
07454 107778
Main contractor specialising in fuel, EV and civils works

Broham Forecourt Developments Ltd
www.broham.co.uk
01206 210 455
Specialist principal contractors in retail forecourt & commercial fuel installation

Bulk Meter Services Ltd
01233 740134
www.bms-ltd.com
Supply, install & service bulk meters & registers for fuelling applications

Centaur Fuel Management Ltd
0870 757 6323
www.centauronline.co.uk
Installers of fuel pumps, tanks & fuel management equipment

Centre Tank Services Ltd
0121 351 4445
www.centretank.com
Fuel dispensing, storage tank and AdBlue equipment, Piusi products and Husky nozzles

Clarke Construction Services Ltd
01543 361636
www.clarkeconstruction.co.uk
Civils, tank and pipe installation and maintenance, knockdown/rebuild

Commercial Fuel Solutions Limited
02380 118 670
www.commercialfuelsolutions.co.uk
DSEAR specialist. Manufacturer and distributor of fuel storage and handling systems, including bulk metering, fuel filtration, fuel management, AdBlue and Hydrogen.

County Pumps Ltd
01295 780746
www.countypumps.co.uk
Installation repair and service of fuel systems, pumps & fuel monitoring systems

C P Installations Ltd
01702 544442
www.cp-installations.co.uk
Tank & pipework specialists, electrical services, site maintenance, decommissioning

DMCS Ltd
01244 289161
www.dmcslimited.co.uk
Calibration of bulk liquid storage vessels

Dover Fueling Solutions
01695 52175
Fuel management solutions for independent, hypermarket and multinational

Durapipe UK
01543 279909
www.plxpipe.co.uk
Manufacturer of plastic pipework systems

D R Forecourt Services Ltd
01691 610733
Installation of all equipment on petroleum/dispensing stations

E & S Environmental Services Ltd
01993 852419
www.eandsgroup.co.uk
Tank cleaning & testing, site maintenance, fuel services

Elaflex Ltd
01992 452950
www.elaflex.com
Forecourt dispenser nozzles & accessories

Equipe Environmental
01744 731462
www.equipeenvironmental.co.uk
Supply, install & test tanks, gauges, covers, pipeworks, pump spares

Eurotank Service Group
0800 311 2149
www.eurotank.eu.com
A group of forecourt engineering service companies

Falcon Fuel (N.I.) Ltd
028 3884 2639
www.falcon-fuel.com
Engineering services for tanks, gauges, pipework, pumps, POS, fuel polishing, tank cleaning

Fast Fuel Services Ltd
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www.fastfuelservices.co.uk
Fuel tank & pump maintenance, installations and service contracts.

Fleetsolve Ltd
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www.fleetsolve.com
Biofuel combined heat & power systems

Forecourt Installation and Maintenance
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Pumps & equipment service & installation

Forecourt Solutions Ltd
01278 428833
www.forecourtsolutionsltd.com
Manufacturers of lightweight composite covers and containment products

Fuelcare Ltd
01743 360784
www.fuelcare.com
Fuel polishing, testing, sampling experts

Fuelcom
02890 410655
www.fuelcom.com
Install & maintain pumps, pipework, tanks & gauges. Plus risk assessment in Ireland

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Greenchem Solutions Ltd
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www.greenchem-adblue.com
AdBlue and AdBlue tank manufacturer

GripHero Ltd
01752 875640
www.griphero.com
Design, manufacture and supply dispensers of disposable hand protection on forecourts

GSS Training Ltd
0161 926 9510
www.gsstraining.co.uk
Health & safety, environmental and business training, inc. SPA passport & risk assessments

Henderson Technology
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EdGEPos EPOS system.
'By retailers for retailers'

Htec Ltd
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Epos, payment & loyalty solutions, back office, head office, installation & maintenance

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www.hytekgb.com
Fuel dispensing & management, lubrication products

Ideal Tanks & Pumps Ltd
01604 843359
admin@idealtanksandpumps.co.uk
Supply, maintenance & installation of tanks, pipes. Tank cleaning & decommissioning

IMF Solutions
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www.imfsolutions.co.uk
Tanks, pipeworks (plastic welded, steel, mapress), SGB Class 1 monitoring systems, tank lining, coating, inspection and repair, tank, gauge installation and maintenance

Industrial Services
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www.fuelworking.co.uk
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Istobal UK Ltd
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www.istobal.co.uk
Install, maintain & repair forecourt valeting equipment

Jackaman Ins Services Ltd
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www.jackamaninsurance.co.uk
Specialist insurance services to the petroleum industry

James Blake & Co (Engineers) Ltd
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www.blakegroup.co.uk
Storage tank manufacturers and steel fabrications

Judvia Construction Service Ltd
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Forecourt branding specialists, accident repairs and new companies

J W Hinchliffe (Tanks) Ltd
0113 263 5163
www.jwhtanks.co.uk
Tank cleaning, removal and disposal services

Kidderminster Petroleum Services Ltd
01562 861636
www.kidderminsterpetroleumservices.com
Petrol forecourt Installation, maintenance and service

Ledbury Welding & Engineering Ltd
01531 632222
www.lweltd.co.uk
Bunded tank manufacturers, SuperVault modular filling station

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Fuel testing, polishing & uplifts; tank cleaning, installation

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M & Co Construction Group Ltd
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Drainage specialists, groundwork and civil engineering

M & E Services (NI) Ltd
02830 878259
Installation of diesel generators, remote fuel tanks and pipe work, DC control systems. Commissioning generator and fuel control systems

Makeen Energy
01792 224003
www.makeenenergy.com
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Mitchell & Webber
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Specialist fuel services supplier inc, tank cleaning & fuel polishing

Nupi Industrie Italien S.p.A
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On The Level
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01756 799773
www.opwglobal.com
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Panks Engineers (Castle Hill) Ltd
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Water specialists, dirty water, bore hole drilling, treatment and installations

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Petrol Sign UK Ltd
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www.thepetroltankcompany.co.uk
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www.pfsfueltec.com
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Forecourt products to protect the environment and make forecourts safer.

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Onsite commercial fuel management solutions, including tanks, pumps, gauges & software

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Petrol, diesel and HVO fuel tanks

United Pipework Services Ltd
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VARS Technology Ltd
www.varstechnology.co.uk
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Westfield Services (UK) Ltd
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