



A pioneer in Al-enabled, zero-emission, hydrogen fuel cell commercial vehicles

AI CLIMATE TECHNOLOGY DECARBONISING THE ROAD FREIGHT SECTOR

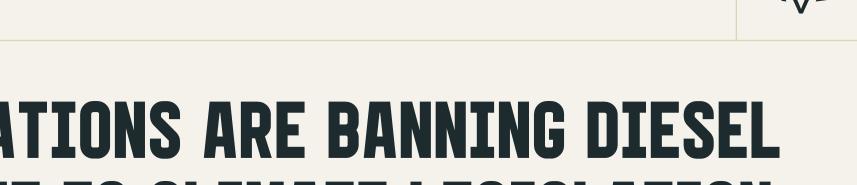
DOCUMENT: AW V3.7_24/12/2024

PRE-NDA

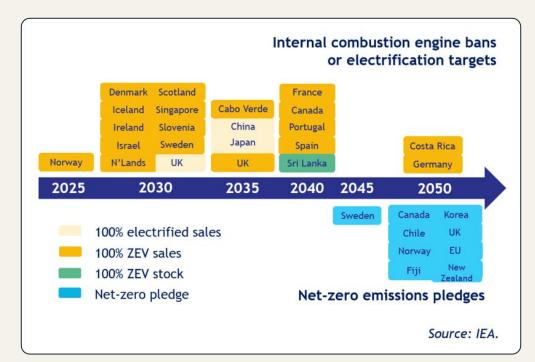
UNLESS OTHERWISE SPECIFIED - Commercially sensitive information Distribution not allowed without prior written consent by Hydrogen Vehicle Systems LTD ("HVS") 2024 Hydrogen Vehicle Systems Ltd | Park View House | 96 Caledonia St | Glasgow | G5 0XG | United Kingdom | e: info@hvs.co.uk | +44 (0)141 418 5490 | hvs.co.uk







TWENTY NATIONS ARE BANNING DIESEL TRUCKS DUE TO CLIMATE LEGISLATION



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EU formally bans new ICE vehicles, aims to slash emissions from trucks and buses





WE BUILD ZERO-EMISSION TRUCKS AND CARBON-REDUCING TECHNOLOGY



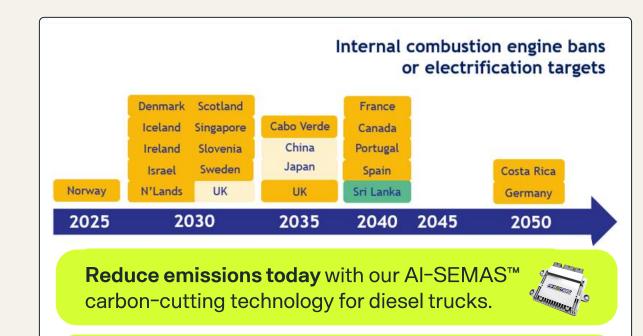


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AI-SEMAS[™] also provides a range of ancillary Software as a Service (SaaS) solutions derived from geospatial data gathering



TIMED TO PERFECTION



Eliminate emissions tomorrow by transitioning to our Al-driven hydrogen zero-emission trucks



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INTRODUCTION TO HVS: YOUTUBE VIDEO



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Welcome to Hydrogen Vehicle Systems, where visionary technology fuels tomorrow's transport

Over two decades ago, my clean-tech journey began with Project Eureka, extracting hydrogen through magnetic water splitting. Today, that vision has evolved into HVS—a UK-based AI-Climate Tech company at the forefront of trucking decarbonisation.

We develop: Al-Driven Hydrogen Zero Emission Trucks and Al-SEMAS[™] Emission Reduction Technology, enhancing diesel, battery, and hydrogen trucks to: Perform Better. Drive Cleaner. Decarbonise Faster. Our solutions deliver measurable results: Up to 14% savings on hydrogen, 10% on battery, and 5% on diesel.

Our mission is to optimise diesel trucks for cleaner performance today while accelerating the transition to hydrogen trucks tomorrow.

Abdul Waheed HVS Founder and CEO







7

361 PEOPLE AS PART OF THE WIDER DELIVERY TEAM



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INTRODUCING OUR INVESTORS



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Actual UK Government Investment/Grants Won: £25M, plus an additional £5M investment by supply chain. Rounded up for ease of presentation.

BILLIONARE BROTHERS



WE HAVE THE TRUCKS, FUELLING, AND CUSTOMERS



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INDUSTRY LEADER

WE'RE WINNING ALL THE TOP AWARDS. TECHNOLOGY. AUTOMOTIVE. CLIMATE.







UK Awards - Small Business Awards 2022 - Small Business Disruptor of the Year 2022; Winner – Business UK Awards - Small Business Awards 2022 - CEO / Director of the Year 2022; Winner – The Scottish SME Business Awards 2019 - Scottish Innovation of the Year 2019; Silver Award – Future Resource Green Apple Award 2019 For Environmental Best Practice Sustainability; Bronze Winner – International Green Apple Awards 2018; Silver Awards 2018 – Statise Statism Avards 2018 Automotive; Commended – Green Fleet Awards 2018 Industry Innovation Award 2018; Finalist – The Future Resource Green Apple Awards 2018 Sustainability; Champion Award 2018; Sustainability Awards – Business Awards – Transport; SBL.





MASTERS OF GRANT FUNDING

FUEL CELLS

HVS Wins UK Grant to Develop Zero – Emissions Hydrogen Fuel Cell Powered Ambulance

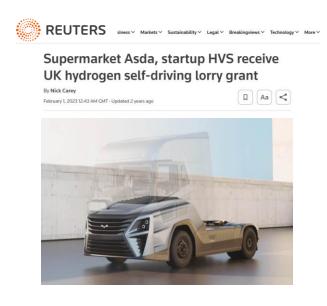
By Fuel Cells Works October 29, 2021 at 12:14 PM EDT

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£1M

Read Article



£7M Read Article





HVS designs and develops hydrogen-electric vehicles



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In 2022, HVS made history by securing the entire funding allocation from the Advanced Propulsion Centre (APC), with the team stating that it was the best presentation they had ever witnessed.





NOW IT'S THE £1.8 TRILLION GREEN FUND

€1 TRILLION: EUROPEAN GREEN DEAL INVESTMENT PLAN (EGDIP) €724 BILLION: RECOVERY AND RESILIENCE FACILITY (RRF) €100 BILLION: JUST TRANSITION MECHANISM (JTM)

European climate funds deployed in 2024: €226M for Daimler's hydrogen trucks, €1.5B for EU hydrogen R&D, and €6.9B for hydrogen sector aid.

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CLIMATE FUNDING



EUROPE TO QATAR

€1 TRILLION: EUROPEAN GREEN DEAL INVESTMENT PLAN (EGDIP) €724 BILLION: RECOVERY AND RESILIENCE FACILITY (RRF) €100 BILLION: JUST TRANSITION MECHANISM (JTM)

£1B UK-Qatar Climate Tech Investment Fund



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€30M EIC SCALE-UP FUND ELIGIBLE

✓ AI TECHNOLOGY ✓ DIGITAL ✓ DEEP TECH ✓ SCALABLE ✓ ADVANCED CONNECTIVITY ✓ AUTONOMOUS SYSTEMS ✓ HYDROGEN ✓ CARBON-REDUCTION ✓ NET-ZERO CLEAN TECHNOLOGY

"We are confident that AI-SEMAS[™] Emission Reduction Technology aligns exceptionally well with the objectives and priorities of the EIC STEP Scale-Up programme. *Visiativ.com* 12/12/24"

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PRODUCT 1 Carbon Reducing Technology

ZERO-EMISSION HYDROGEN FUEL CELL POWER

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The AI-SEMAS trademark is registered in the UK, EU and Australia, and pending in Turkey China, Canada, India, the Republic of Korea, and the US.

AI-SEMAS" CLEAN-TECH

HVS AI-SEMAS:

THE FUTURE OF AI

VEHICLE ENERGY

MANAGEMENT

SAVES UP TO:

5% DIESEL 10% BATTERY 14% HYDROGEN

5.25% average savings weighted average result based on fleet composition and excess fuel use: Best (20 drivers): 0% extra fuel used; Good (25 drivers): 3% extra fuel used; Fair (30 drivers): 5% extra fuel used; Poor (20 drivers): 10% extra fuel used; Worst (5 drivers): 20% extra fuel used.

20% savings stem from driver performance differences (best driver v. worst driver), while 5% and 9% savings come from multi-energy-source powertrains. Battery Truck: Batteries & Regen Braking; Hydrogen Truck: Fuel Cell, Batteries & Regen Braking.



*PER-TRUCK DIESEL SAVINGS OVER 75,000 MILES



3P PER MILE: £2,500 ANNUALLY 5 TONNES OF CO2 ANNUALLY 28kg of Nox Annually

CAN BE RETRO-FITTED TO EXISTING DIESEL TRUCKS

"UK: 515,000 trucks; Europe: 6M+ trucks." source GOV.UK

* Assumptions – A truck achieving 10 mpg and covering 75,000 miles (120,000 km) annually consumes 33,898 liters of diesel per year. With a 5.25% fuel savings, this reduces diesel consumption by 1,780 liters annually, saving £2,349 at a diesel price of £1.32 per liter, equivalent to 3.13 pence per mile. In terms of emissions, with diesel producing 2.51 kg CO₂e per liter, this reduction equates to a decrease of 4.47 tonnes of CO₂ per year.

* Estimated figures based on AI-SEMAS modelling and partial road testing – full system road testing and validation stage now being undertaken. On average, AI-SEMAS[™] achieves a 5.25% saving across 100 diesel truck drivers. NOx savings can vary significantly depending on the fleet, particularly whether the vehicles are Euro 5 or Euro 6 diesel models with functional filters and catalytic systems.





MEET THE AI-SEMAS" TEAM AND INVENTORS







DR. TELFORD: NUCLEAR PHYSICIST DR. STONE: HYDROGEN FUEL CELL EXPERT SUZANNE: ARM HEAD OF PATENT INFRINGEMENT

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SAVE MONEY, CUT CARBON



MULTI-PATENT-PROTECTED

OPTIMUM PERFORMANCE | MAXIMUM FUEL EFFICIENCY | PREDICTABLE & ACCURATE RANGE | EXTENDED LIFE & DURABILITY

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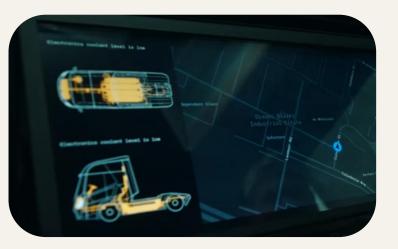
COMMERCIAL & Confidential

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INTELLECTUAL PROPERTY: AI-SEMAS"

AI- Enabled SEMAS provides a system-level solution to onboard vehicle operations and fleet management

BLOCK OVERVIEW SEMAS® Value proposition Virtual-Vehicle Energy- Management Optimisation Suite X **Total Vehicle Energy Management System Continuous Cyclic Optimisation** SEMAS[™] VEMOS **Control Algorithm Library High-Fidelity Modelling Suite** Always-On' Al Predictive Drive Controller C Continuous Logistics Improvement Updates Data Logger, Telematics & Sensors SEMAS[™]AIPD Connectivity module to AI-SEMAS iCloud Data logger for individual vehicles Vehicle systems interrogation for maintenance and performance Telematics & sensors Al-Enabled Total Vehicle & Fleet Operational Database, Predictive Maintenance, SEMAS™ CUMULUS Algorithm Improvement Analysis & Fleet Management Data mining & Al enhancements ţ Range Optimization & Accuracy; Drive-Assist Functionality; Predictive & Preventative Maintenance; Fleet Manager Interface; (Lowest Cost Logistics (per kg/per km) SEMAS[™] DATASET **Regulatory Compliance** Security & Tracking Warranty validation



5	UK Patents [granted]				
5	UK Patents [pending]				
8	International Patent Applications (PCT)				
52	UK & International PCT patents [In progress future fillings]				
30	Areas of Innovation				
26	Trade Secrets & Know How				
7	Registered Vehicle Designs				
7	Other Prior Registered Designs				
HVZ	Trademark Registered: UK, Australia, EU, Turkey & US				
mas	Trademark Registered: UK, Australia, China, EU and US				

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H

AI-SEMAS": FROM DEVELOPMENT TO SALES TIMELINE

\equiv	YEAR 1	YEAR 2	YEAR 3	YEAR 4
AI-SEMAS HARDWA Unit for diesel Trucks		Sales 8,000,000 Truck Market	Sales 8,000,000 Truck Market	Sales 8,000,000 Truck Market
	Testing & Development: HVS	Safety Regulation Testing HVS	Road Safety Certification: HVS	Sales 7,000,000 EU Truck Market
AI-SEMAS AS A Software for Battery and	Testing & Development: HVS	Testing & Development: HVS	Road Safety Certification: HVS	Sales: HVS OWN VEHICLE 7,000,000 EU Truck Market
HYDROGEN TRUCKS	Coutreach to Volvo, Mercedes, Renault etc.	Testing & Development: Volvo, Mercedes, Renault etc	Road Safety Certification : Volvo, Mercedes, Renault etc	Sales: Volvo, Mercedes, Renault etc 7,000,000 EU Truck Market

5.25% average savings weighted average result based on fleet composition and excess fuel use: Best (20 drivers): 0% extra fuel used; **Good (25 drivers)**: 3% extra fuel used; **Fair (30 drivers)**: 5% extra fuel used; **Poor (20 drivers)**: 10% extra fuel used; **Worst (5 drivers)**: 20% extra fuel used.

HVS has partnered with Evage, a company in India with 70 years of family automotive expertise. Their motors are integral to HVS' E-axle supplier, Meritor. More significantly, Evage has strong ties to a global-leading truck manufacturer (details available under NDA), which can fast-track AI-SEMAS technical development, implementation, and safety testing within a targeted six-month timeframe. Additionally, India's minimal road safety regulations for trucks allow immediate sales opportunities. This is further bolstered by a direct connection to the Chairman of the Board of India's Trucking Association, representing members who collectively operate 8 million trucks—unlocking a substantial market potential.

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PRODUCT 2 ZERO-EMISSION TRUCKS

ZERO-EMISSION HYDROGEN FUEL CELL POWER

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HVS HYDROGEN-ELECTRIC TRUCK



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HYDROGEN PROPULSION



TRANSFORMNG THE TRUCKING INDUSTRY

DRIVE CLEANER, PERFORM BETTER AND DECARBONISE FASTER

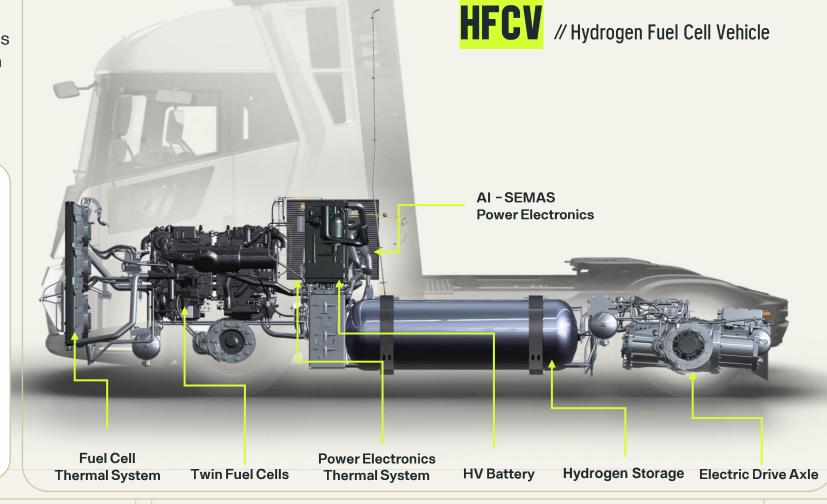
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WATER-EMITTING TRUCK: A REVOLUTION IN TRUCK DESIGN

Purpose-built design and chassis that optimises operational efficiency, a competitive advantage to retrofitted trucks

Unlike other hydrogen powertrain designs using an ICE vehicle chassis, HVS has designed its chassis from the ground-up. This optimises cutting-edge hydrogen powertrain technology to provide maximum operational efficiency, safety and driver comfort for HGV fleets striving to meet their net zero goals.

Internal Combustion Engine Diesel Powertrain



Transmission Prop Shaft

Engine

Mechanical

Drive Axle

VEHICLE SPECIFICATIONS



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6 REASONS WHY HYDROGEN TRUCKS OUTPERFORM BATTERY TRUCKS





HEAVY PAYLOADS 🗹

Hydrogen propulsion is able to pull heavy duty without the payload deficit of a heavy BEV (battery truck)



LONG RANGE 🗹

Operators can stay on the road for 600km^{*} before needing to refill the Hydrogen tanks



ALL-WEATHER MOBILITY 🗹

HFCEV maintain range & performance in cold operating conditions (unlike battery trucks)



FUELLING STATION NETWORK

Leveraging existing stations for hydrogen supply and installing back-to-base hydrogen stations at depots.



QUICKER RE-FUELLING 🗹

Hydrogen tank refilling takes only 10–15 mins, a fraction of BEV'S charging time



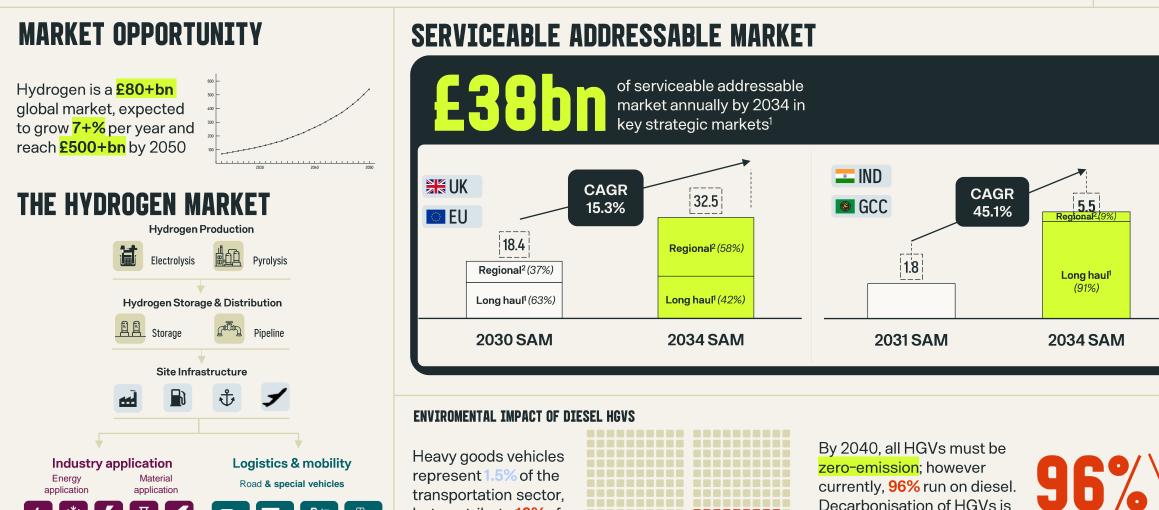
POWERING TAIL LIFTS 🗹

Capability to supply high on-board power demand for tail lifts, refrigerant trailers and specialist trailers

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THE MARKET OPPORTUNITY

Compelling underlying trends with a sizable serviceable addressable market supported by strong regulatory tailwind



Commercial

Private

66

Agriculture

Industrial

but contribute 19% of

the CO2 emissions

1. X cApricum CVDD market sizing – Key strategic markets include UK, EU, India and GCC

not occurring fast enough.

Cooling

Power

Supply

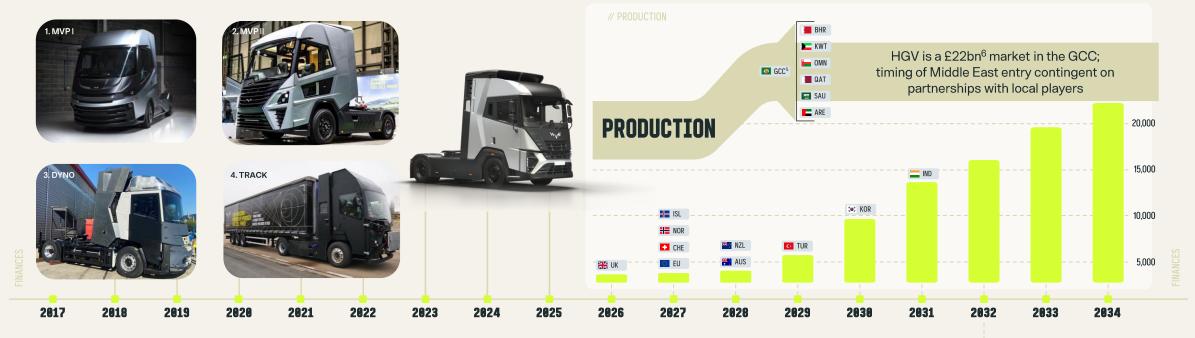
Feedstock Reducing

Agent

PROTOYPE TO PRODUCTION



SO FAR, WE'VE BUILT 4 STUNNING PROTOTYPES, TESTED FROM DESIGN TO DYNO, AND TOWING ON TRACK. NEXT STEP: PRODUCTION.



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In 2022 Hyundai flew their technical team to the UK to see the first prototype. They said 'What HVS has achieved in 6 months would take us two years,'

#HVS #HVSTrucks #HydrogenGoodsVehicles #HydrogenVehicles

HAVE QUESTIONS? EMAIL US. kerry.cosgrove@hvs.co.uk