



LIQUIDYNAMIX
FUEL. ON DEMAND. ANYWHERE.

MIPT® ON-BOARD HYDROGEN GENERATION
ELIMINATE WASTE. UNLOCK PERFORMANCE. DRIVE PROFITABILITY.

1. PROBLEM

Heavy mobility operators and decentralized energy providers waste **\$3 to \$5 per kilogram** of hydrogen fuel relying on traditional bulk transport and liquefaction that burn through **30%** of their energy before point-of-use.



30%+

energy penalty lost to bulk distribution, transport, and cryogenic storage.



\$3 to \$5

per kilogram economic loss built directly into legacy hydrogen fuel supply chains.



Infrastructure Bottlenecks

severely restrict commercial heavy fleet adoption.



2. SOLUTION

Our MIPT on-board hydrogen generation system enables heavy mobility operators and decentralized energy providers to **generate fuel directly at the point of use**, eliminating traditional distribution bottlenecks, **recovering the 30% energy penalty**, and **saving \$3 to \$5 per kilogram**.



Point-of-use on-board generation replaces bulk transport and off-site refueling dependence.



Direct recovery of the 30% energy distribution loss back to vehicle operations.



\$3 to \$5 per kilogram direct operational cost savings for fleet owners.

**FUEL ON BOARD.
FUEL ON DEMAND.
VALUE RECOVERED.**



ELIMINATE
BULK TRANSPORT
& LIQUEFACTION



RECOVER
30% ENERGY
PENALTY



SAVE
\$3 TO \$5
PER KILOGRAM

3. MARKET OPPORTUNITY

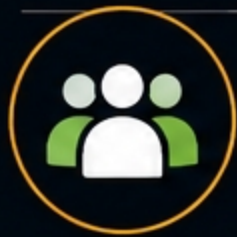
LIQUIDYNAMIX is targeting Class 8 heavy transport fleets as its initial beachhead market, where fuel accounts for up to 45% of operating expenses and point-of-use hydrogen generation yields immediate bottom-line ROI.



BEACHHEAD OPPORTUNITY

Class 8 trucks burn \$59,700+ in annual fuel across 120,000 miles.

MIPT saves \$15,000 to \$25,000+ per truck annually.



TARGET FLEET PROFILE

Mid-size operators (50 to 200+ trucks) spending \$2M to \$10M+ on annual fuel.



EXPANSION PATHWAYS

Adjacent multi-billion-dollar opportunities in maritime container shipping (254 Mt CO₂ profile) and regional aviation.

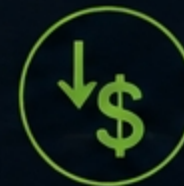


FUEL = UP TO
45%
OF OPERATING
EXPENSES

INITIAL BEACHHEAD: CLASS 8 HEAVY TRANSPORT



\$59,700+
ANNUAL FUEL COST
PER TRUCK
(120,000 MILES/YEAR)



**\$15,000–
\$25,000+**
ANNUAL SAVINGS
PER TRUCK WITH MIPT



\$2M–\$10M+
ANNUAL FUEL SPEND
FOR TARGET FLEETS
(50 TO 200+ TRUCKS)

EXPANSION TO ADJACENT MULTI-BILLION-DOLLAR MARKETS



MARITIME CONTAINER SHIPPING
254 Mt CO₂
ANNUAL EMISSIONS PROFILE



REGIONAL AVIATION
MASSIVE UNTAPPED MARKET
FOR ON-BOARD HYDROGEN



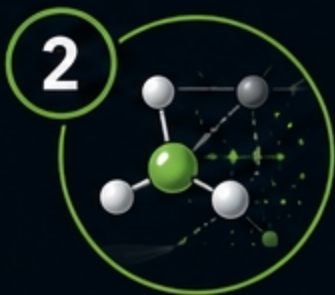
4. TECHNOLOGY & MECHANISM

LIQUIDYNAMIX delivers an on-board molecular processing unit that converts feedstocks into **high-purity hydrogen fuel on demand** as the vehicle operates.



1 INTAKE

Compact on-board unit draws liquid feedstock into the MIPT cell.



2 MOLECULAR PROCESSING

MIPT breaks down feedstock at the molecular level, freeing pure hydrogen without heavy compression.



3 DIRECT FEED

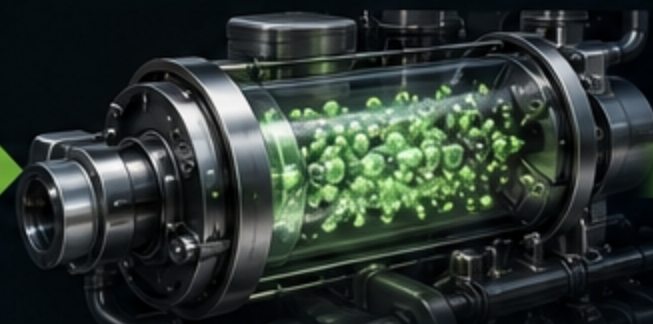
High-purity hydrogen routes immediately into the vehicle engine or fuel cell stack.

1 INTAKE



Liquid feedstock (e.g. methanol, ammonia, or other compatible carriers) is drawn from the on-board tank into the MIPT cell.

2 MOLECULAR PROCESSING



MIPT technology applies precision molecular energy to break down feedstock and release high-purity hydrogen molecules.

3 DIRECT FEED



High-purity hydrogen is delivered instantly to the engine or fuel cell stack for immediate use with zero distribution delay.



ON DEMAND

Fuel generated as you operate



HIGH PURITY

Clean hydrogen, engine ready



RELIABLE

Built for heavy-duty real-world conditions



EFFICIENT

Maximum energy recovery, minimum loss

5. COMPETITIVE LANDSCAPE

While legacy hydrogen providers rely on expensive centralized infrastructure and battery electric vehicles sacrifice payload capacity, **LIQUIDYNAMIX delivers point-of-use fuel generation** without distribution overhead.



CENTRALIZED BULK H₂

Expensive. Inefficient. Infrastructure-Heavy.



- ❌ High capital cost for centralized production and refueling station infrastructure.
- ❌ 30%+ energy penalty lost in production, transport, liquefaction, and storage.
- ❌ Complex supply chains with logistics delays and reliability risks.
- ❌ Limited refueling station availability restricts fleet routes and uptime.



**HIGHER COSTS. LOWER EFFICIENCY.
BUILT-IN ENERGY LOSSES.**



BATTERY ELECTRIC (BEV)

Heavy. Slow. Payload Compromised.



- ❌ Battery weight reduces payload capacity and operational efficiency.
- ❌ Long charging times lead to downtime and lower asset utilization.
- ❌ Requires extensive grid upgrades and high-power charging infrastructure.
- ❌ Battery degradation over time increases total cost of ownership.



**PAYLOAD LOSS. DOWNTIME.
INFRASTRUCTURE CONSTRAINTS.**



LIQUIDYNAMIX (MIPT)

On-Demand. On-Board. Zero Distribution.



- ✅ Zero distribution infrastructure required.
- ✅ Zero transport energy penalty – 100% energy to the wheels.
- ✅ Zero charging downtime – fuel generated while you operate.
- ✅ High purity hydrogen on demand – maximize uptime and revenue.



**LOWER COSTS. MAX PAYLOAD.
MAXIMUM UPTIME. HIGHER PROFITS.**



NO DISTRIBUTION OVERHEAD

Eliminates complex logistics and infrastructure dependency.



ENERGY RECOVERY

Recovers up to 30% of lost energy back to vehicle operations.



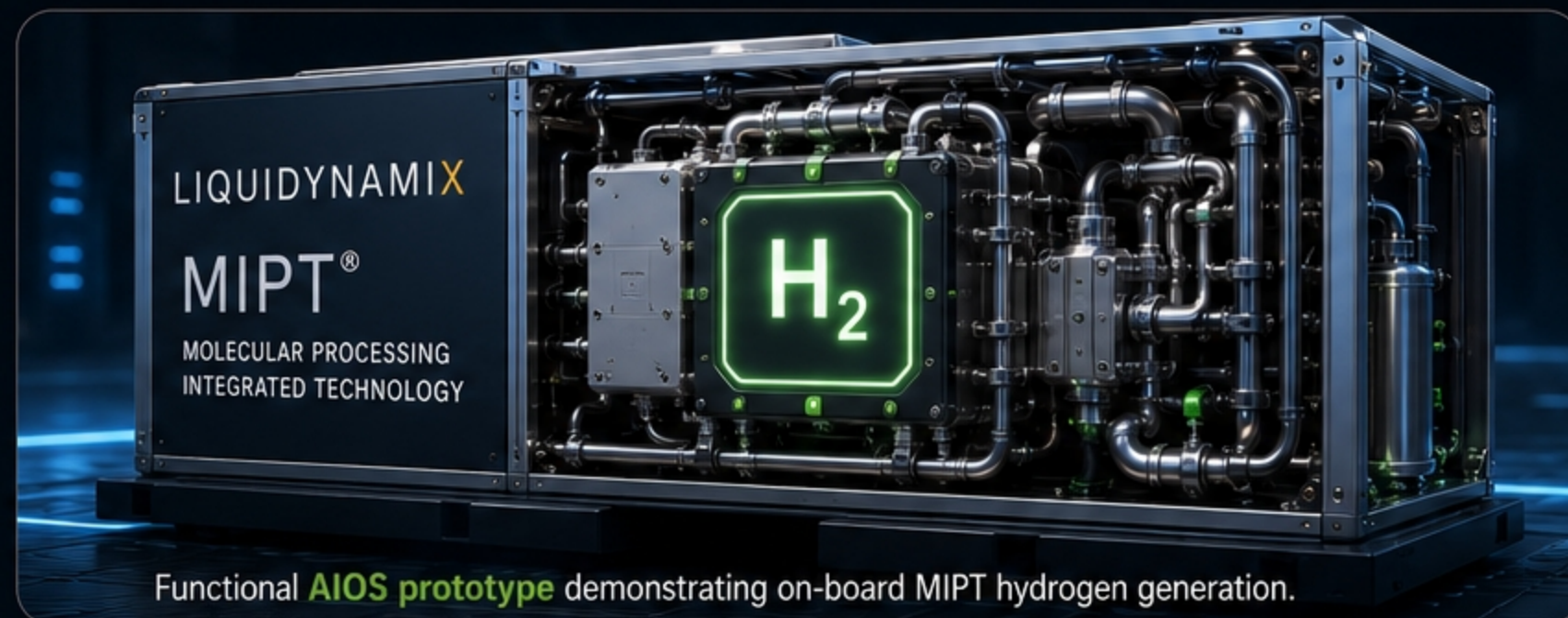
COST ADVANTAGE

Saves \$3 to \$5 per kilogram, driving immediate bottom-line ROI.

**LIQUIDYNAMIX IS
THE CLEAR ADVANTAGE.**

6. VALIDATION & MILESTONES

LIQUIDYNAMIX has secured **core intellectual property**, built a **functional AIOS prototype**, and validated its underlying **deeptech architecture** through published research.



IP & ENGINEERING

Building a defensible foundation for long-term leadership.

- ✓ Core MIPT platform patent drafted and pending.
- ✓ Provisional patent family filed.
- ✓ Functional working prototype of AIOS platform complete.



TECHNICAL VALIDATION

Third-party research validates our deeptech foundation.

- ✓ Peer-reviewed and published research papers on Academia.
- ✓ Molecular processing and energy efficiency validated at the scientific level.
- ✓ Strong technical foundation for scalable commercial deployment.



COMMERCIAL MOMENTUM

Early market and investor interest is accelerating.

- ✓ Early investor LOI discussions active.
- ✓ Strategic fleet operator conversations advanced.
- ✓ Non-dilutive grant applications in progress with strong eligibility.

KEY MILESTONES ACHIEVED



**STRONG FOUNDATION.
PROVEN TECHNOLOGY.
CLEAR PATH TO MARKET.**

**BUILT. VALIDATED.
READY TO SCALE.**



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7. LEADERSHIP & TEAM BUILDING

LIQUIDYNAMIX is led by a **serial tech founder** with a **30-year track record** of pioneering foundational infrastructure, now building an **elite team** to scale a category-defining company.



CLIVE ALDRED

FOUNDER & CEO



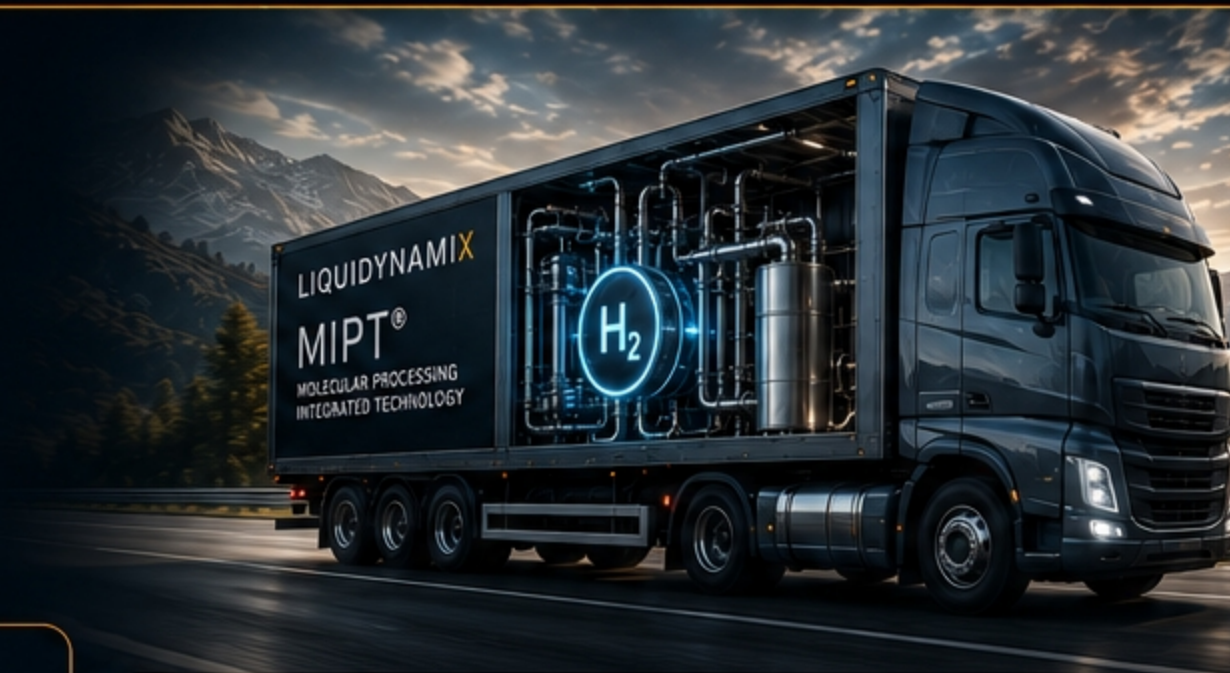
Secured 9th UK telecoms license
(**Starcomm Limited**).



Co-pioneered transatlantic VoIP; published foundational work on automated desktop workflow cited in modern **agentic architecture**.



Former **KPMG** Senior IT Analyst and early AI researcher at **Leeds University**.



OUR VISION

To become the global leader in on-board hydrogen generation, unlocking a new era of **clean mobility** and **energy independence**.

BUILDING AN ELITE TEAM TO EXECUTE



VP OF DEEPTECH ENGINEERING
(MIPT SCALING & LAB-TO-FIELD VALIDATION)

- Lead MIPT hardware scaling, reliability engineering, and field validation.
- Drive technology roadmap from prototype to mass production.
- Build and lead world-class engineering and lab teams.



STRATEGIC OEM & EPC
MANUFACTURING PARTNERS

- Secure OEM partnerships for vehicle platform integration.
- Partner with EPC leaders for manufacturing scale-up.
- Execute supply chain, quality, and production at scale.



GREAT TECHNOLOGY WINS MARKETS. GREAT TEAMS SCALE THEM.

OUR LEADERSHIP PRINCIPLES



INNOVATION FIRST

Relentless pursuit of breakthrough technologies that change industries.



INTEGRITY ALWAYS

Built on transparency, accountability, and long-term trust.



TEAM EXCELLENCE

Attract, empower, and retain the best to solve the world's hardest problems.



GLOBAL IMPACT

Deliver solutions that decarbonize heavy mobility and energy systems.



SHAREHOLDER VALUE

Execute with discipline to create outsized and sustainable returns.



8. FINANCIALS & INVESTMENT SUMMARY

LIQUIDYNAMIX is positioned for accelerated growth, **strong margins**, and significant **shareholder value creation** in the rapidly expanding green hydrogen economy.



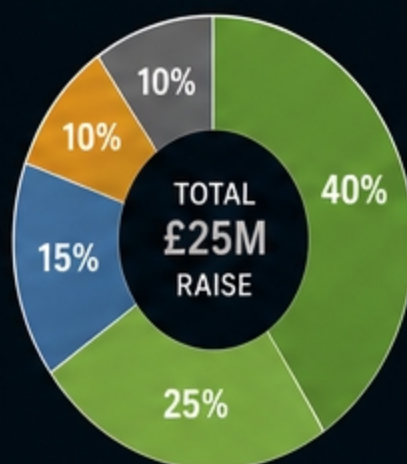
**HIGH GROWTH.
HIGH MARGINS.
HIGH IMPACT.**

Massive market opportunity.
Proven technology.
Clear path to scale.

FINANCIAL PROJECTIONS (GBP)

Year	2026E	2027E	2028E	2029E	2030E
Revenue	£12.5M	£48.7M	£128.3M	£261.5M	£432.7M
Gross Margin %	36%	38%	41%	42%	43%
EBITDA	£3.2M	£13.7M	£37.2M	£78.8M	£142.6M
EBITDA Margin %	26%	28%	29%	30%	33%
Net Profit	£2.1M	£9.1M	£25.4M	£55.0M	£100.1M
Net Margin %	17%	19%	20%	21%	23%

USE OF PROCEEDS

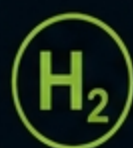


- 40%** Scale Manufacturing (UK & US Facilities)
- 25%** R&D & Product Development
- 15%** Sales, Marketing & Strategic Partnerships
- 10%** Working Capital & Operations
- 10%** IP Protection & Legal

ATTRACTIVE INVESTMENT HIGHLIGHTS

- ✓ Disruptive technology with clear cost, efficiency and performance advantages.
- ✓ Large and growing addressable markets across multiple sectors.
- ✓ Strong IP position and defensible moat.
- ✓ Experienced leadership and elite technical team.
- ✓ Clear roadmap to scale with de-risked validation milestones.
- ✓ Substantial revenue and profit potential with high margins.

MARKET POTENTIAL



GREEN HYDROGEN MARKET
>\$200B TAM
by 2030



ON-ROAD & OFF-ROAD MOBILITY MARKET
>\$120B TAM
by 2030



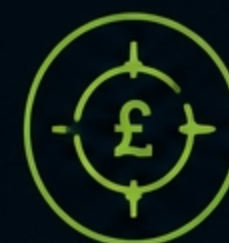
GRID SERVICES & STORAGE MARKET
>\$150B TAM
by 2030

CAPITAL STRUCTURE (POST-RAISE)



- Founders & Management **56%**
- Existing Investors **24%**
- New Investors **20%**
- Total 100%**

INVESTMENT OFFER



£25M SERIES A ROUND

Seeking strategic investors who share our vision for a clean energy future and want to build a category-defining company with global impact.



THE TECHNOLOGY IS HERE. THE MARKET IS NOW. LET'S BUILD THE FUTURE OF HYDROGEN. TOGETHER.

LIQUIDYNAMIX.COM