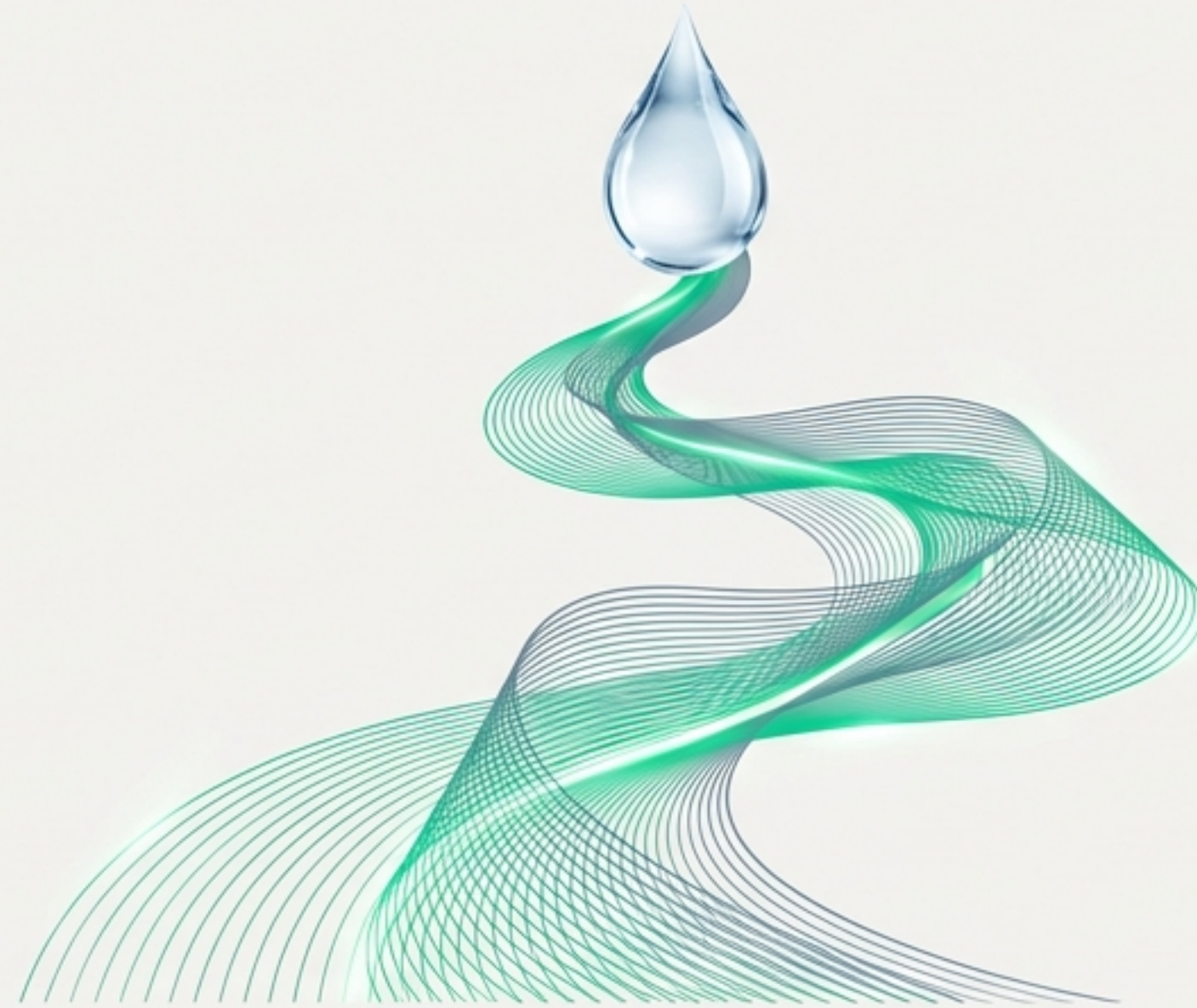


Liquidynamix



Unlocking Clean Energy by Taking the Hydrogen out of Hydrogen.

Investor Business Plan | Series A | December 2025

For 50 Years, Hydrogen Has Been a Promise Shackled by a Paradox

Hydrogen is the ultimate clean fuel, but its adoption has been blocked by the immense danger, cost, and inefficiency of storing and transporting it.



Storage Risk: High-pressure tanks and cryogenic liquids present significant safety and regulatory hurdles.



Low Round-Trip Efficiency: Energy is wasted compressing, cooling, and transporting hydrogen gas.



High CAPEX: The required infrastructure for storage and distribution is prohibitively expensive.

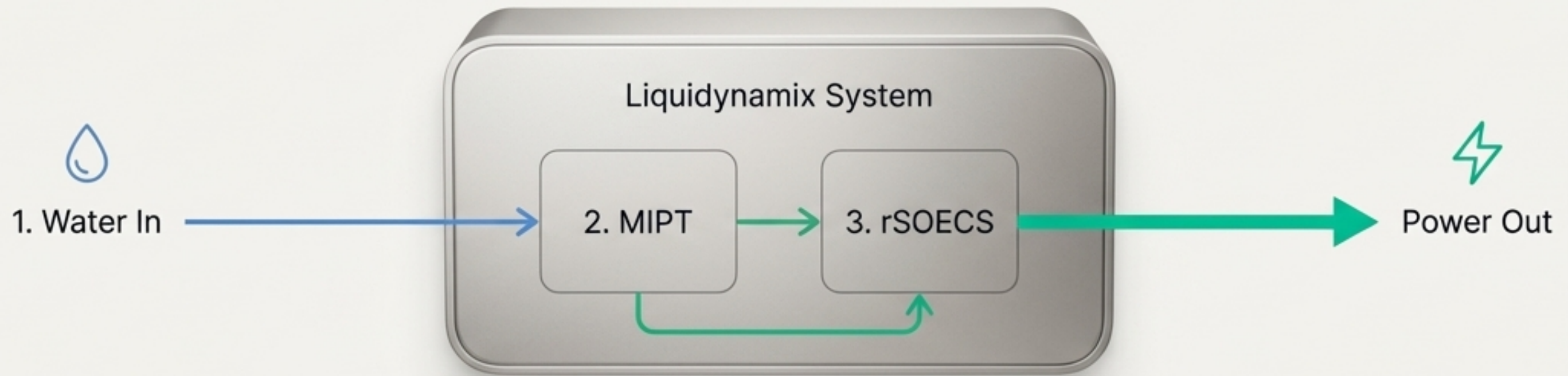


Limited Integration: Difficult to pair effectively with intermittent renewable energy sources.



We Resolve the Paradox by Eliminating Storage Entirely

Liquidynamix has engineered the world's first integrated platform that generates hydrogen from water on-demand, uses it instantly for power, and operates in a closed loop.



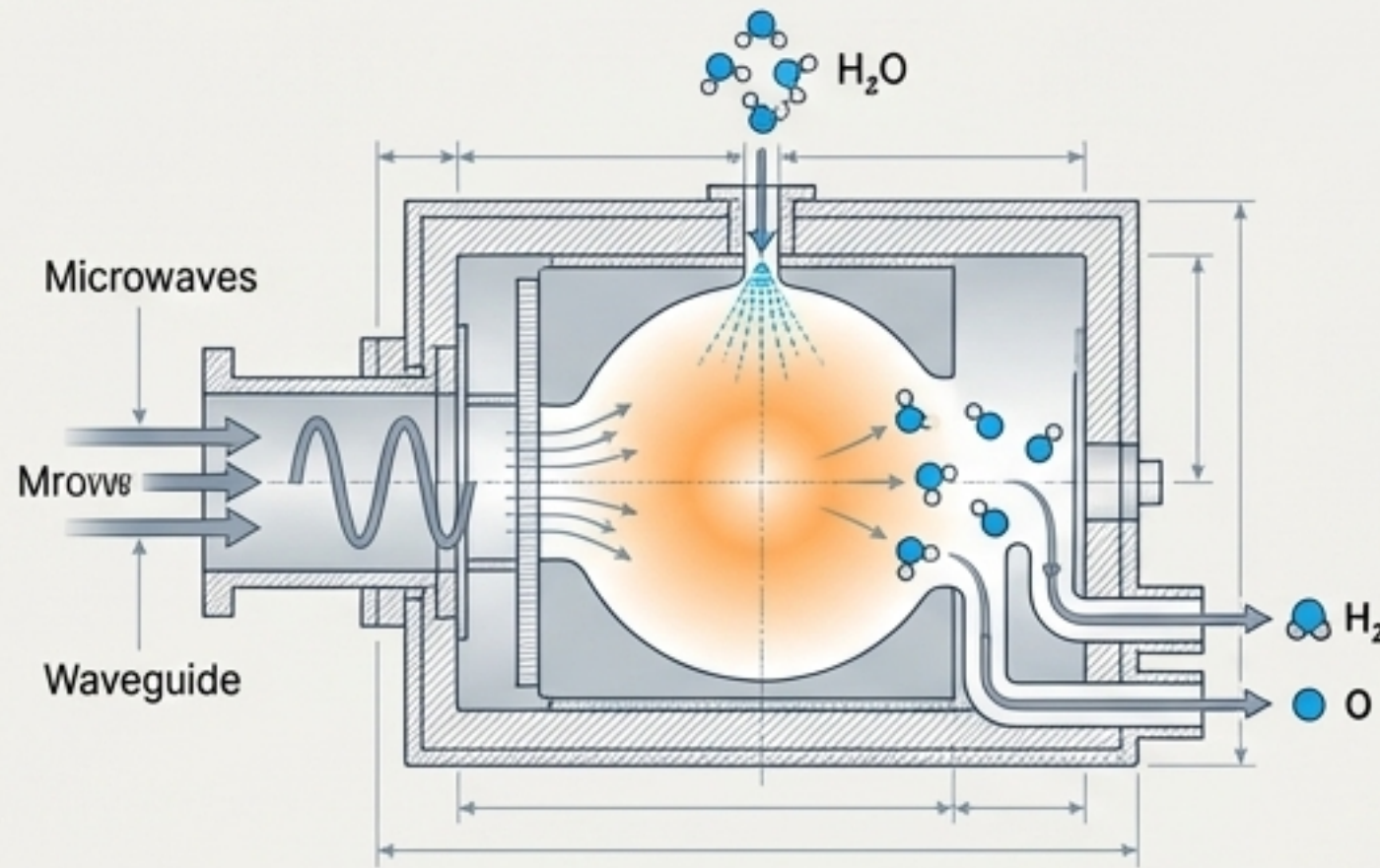
✓ Zero hydrogen storage, eliminating the #1 barrier to adoption.

✓ Dramatically improved system efficiency.

✓ A single, unified platform disrupting two industries: hydrogen production and fuel cells.

Two Breakthroughs Unified in a Single Architecture

Microwave-Induced Plasma Torch (MIPT)

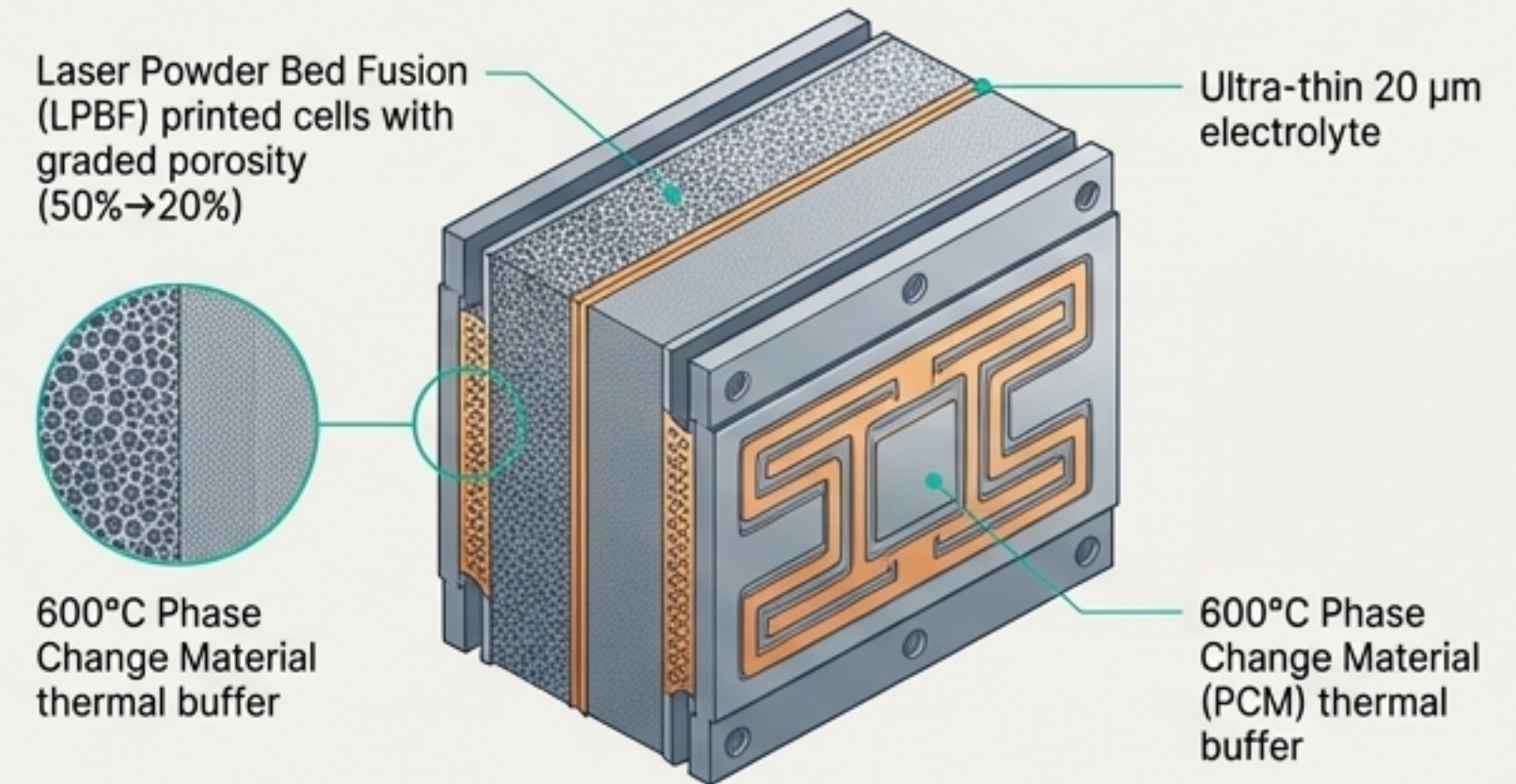


Function: A 5000°C plasma torch instantly dissociates water molecules into hydrogen and oxygen.

Key Advantage: On-demand production with an inherent safety profile far superior to conventional hydrogen.

Technical Spec: Compatible with engines, fuel cells, and turbines.

Reversible Solid Oxide Electrochemical System (rSOECS)



Function: A dual-mode system acting as both a Solid Oxide Electrolyzer (SOEC) and a Solid Oxide Fuel Cell (SOFC).

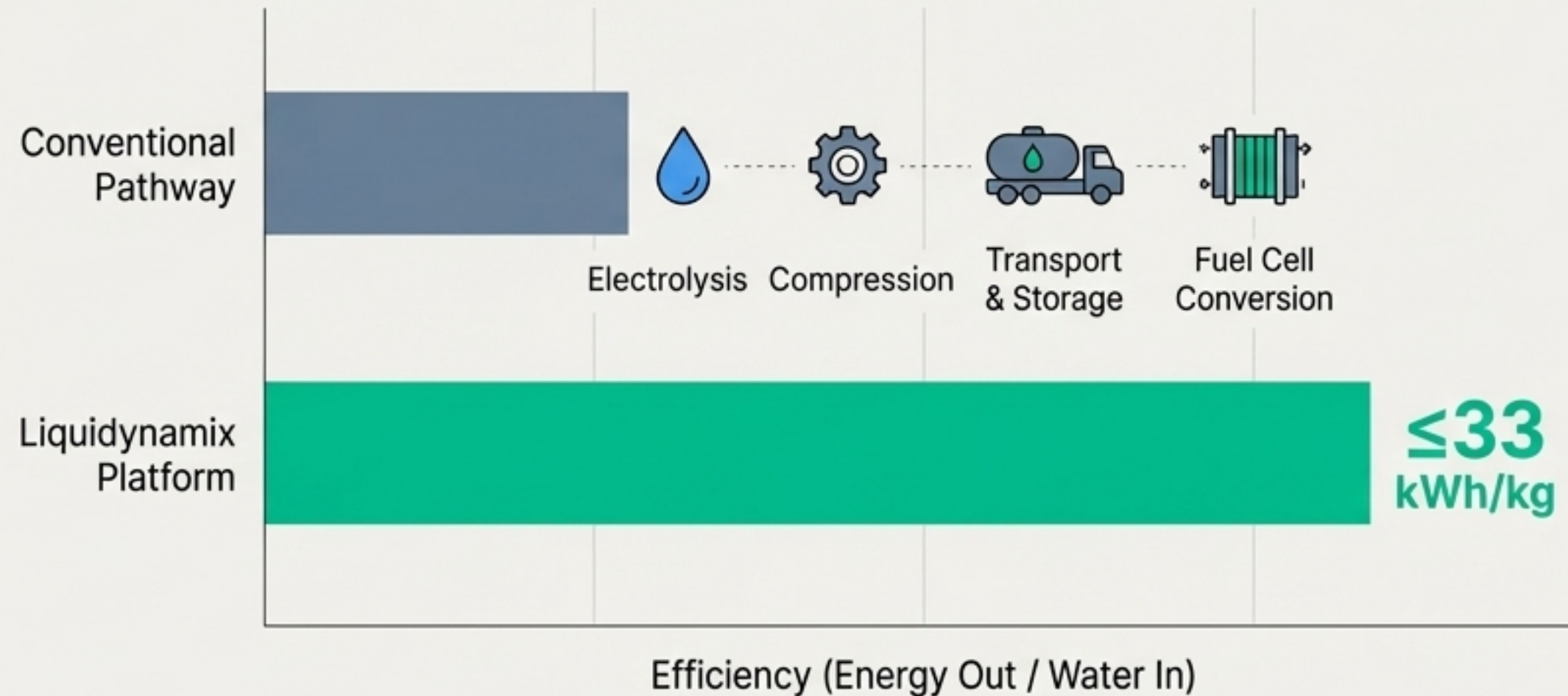
Key Innovations:

- Supercritical water feed (22–30 MPa)
- Laser Powder Bed Fusion (LPBF) printed cells with graded porosity (50%→20%)
- Ultra-thin 20 µm electrolyte
- 600°C Phase Change Material (PCM) thermal buffer
- Rapid <60 second mode switching

Our Integrated System Sets a New Benchmark in Efficiency: $\leq 33 \text{ kWh/kg H}_2$

By eliminating the energy losses from compression, transport, and storage, and by recycling waste heat, our platform achieves unparalleled 'water-to-power' efficiency.

Round-Trip System Efficiency Comparison



How We Achieve This



Closed-Loop Architecture

Hydrogen is produced and consumed in the same location, eliminating transport losses.



5-Stage Heat Recuperation

Waste heat from the rSOECS is captured and recycled to pre-heat the water feed, minimising energy input.

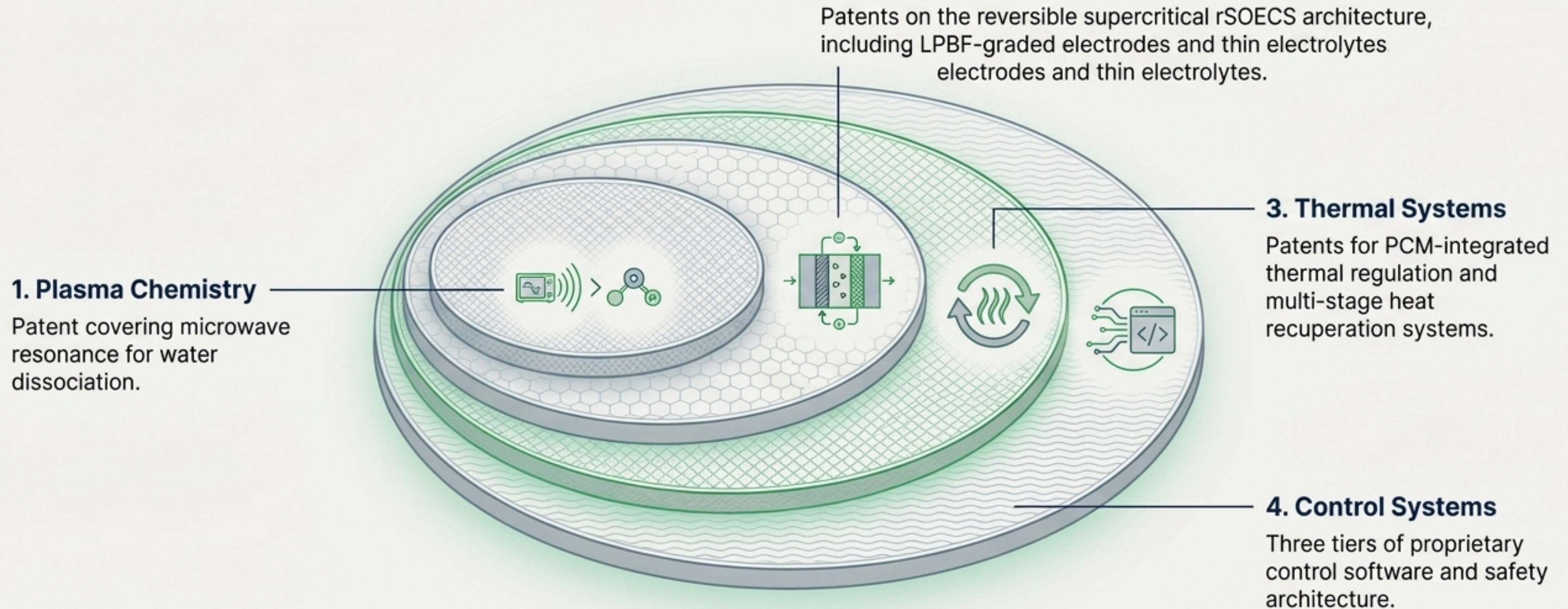


Integrated Thermal Management

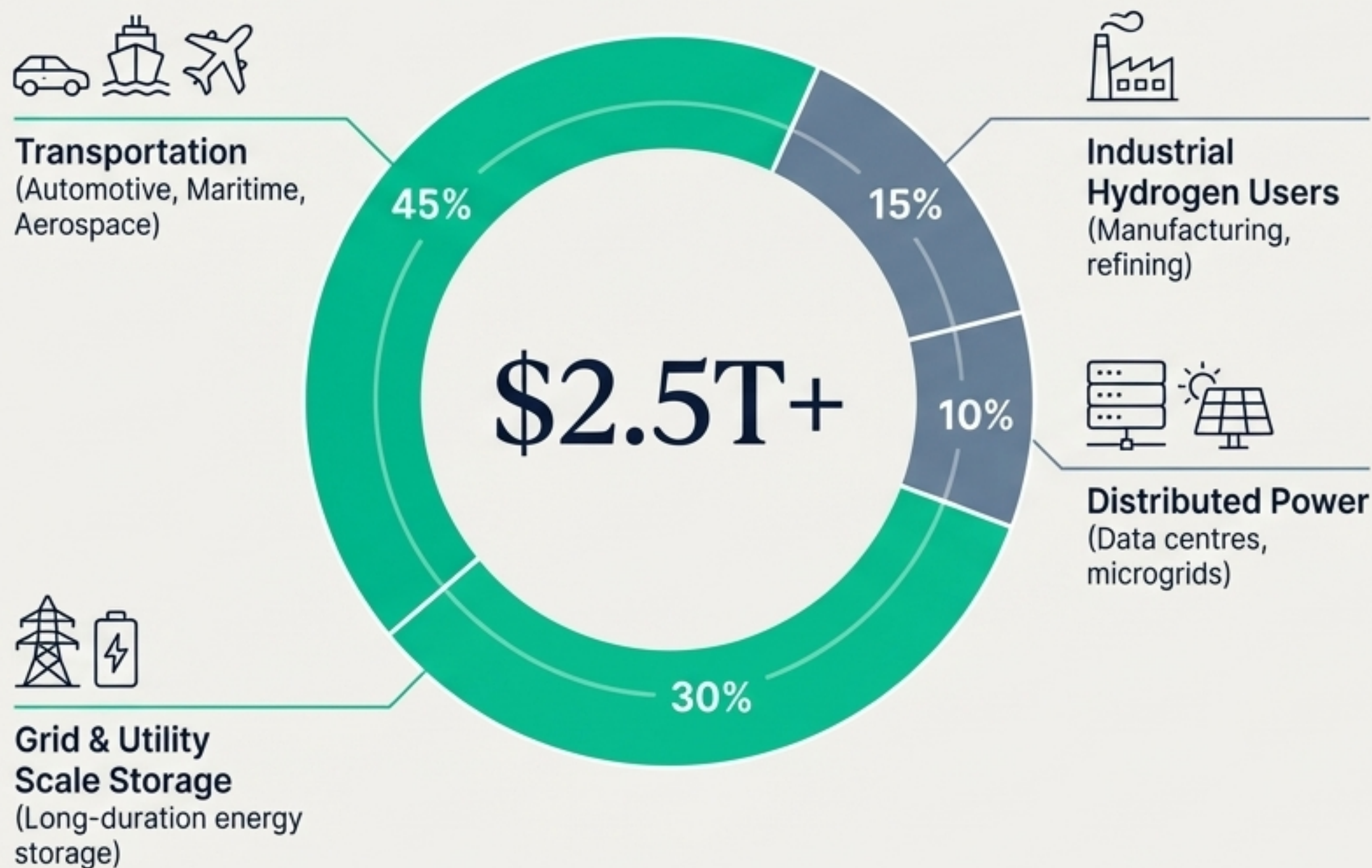
The 600°C PCM thermal buffer stabilises operating temperatures, maximising electrochemical efficiency.

A Multi-Layered IP Portfolio Creates a 10–15 Year Defensible Moat

Our advantage is protected by a robust and interlocking portfolio of patents pending across four critical domains.



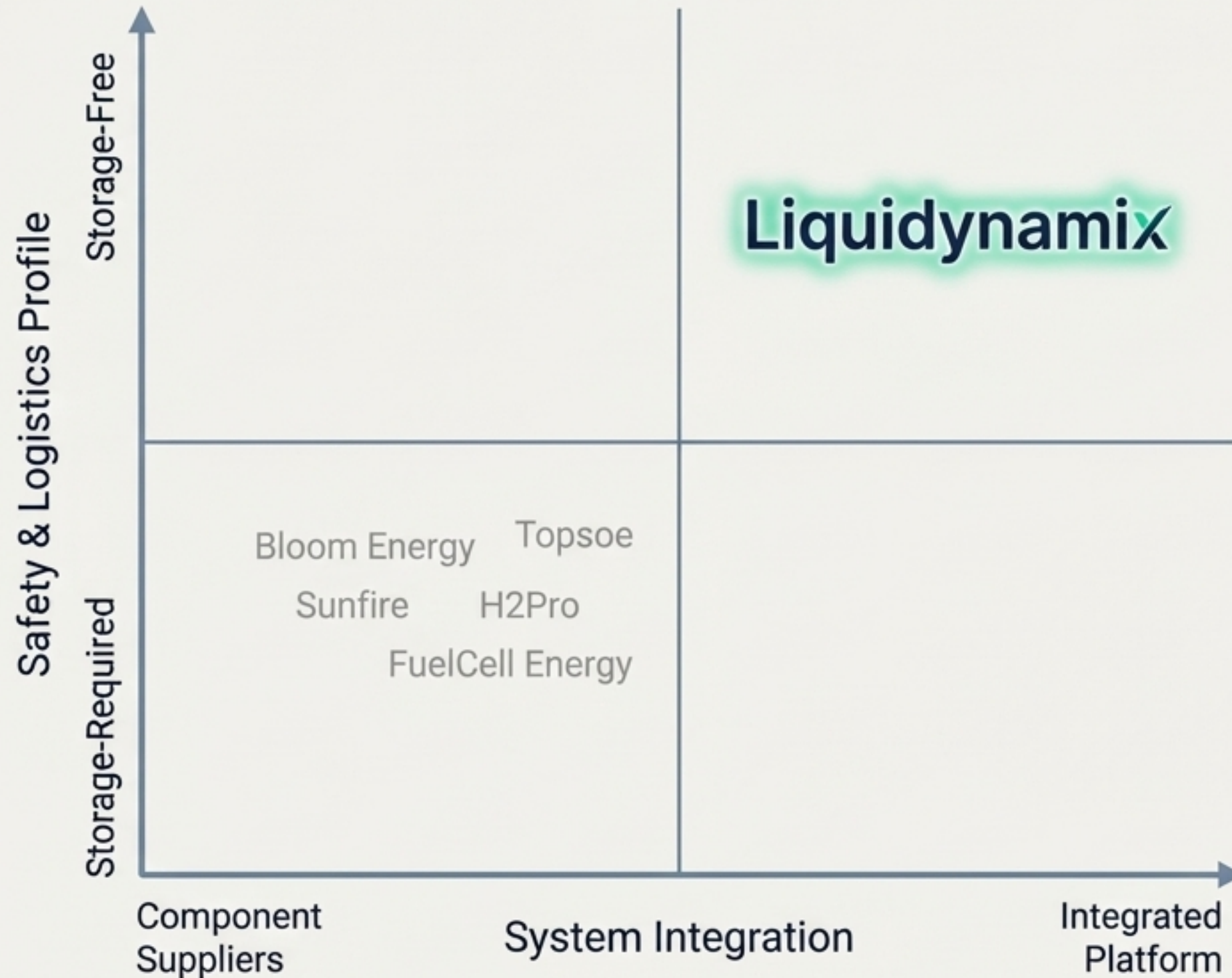
We Are Targeting a \$2.5 Trillion+ Global Market Undergoing Radical Transformation



Key Market Drivers

- Global decarbonization mandates creating regulatory tailwinds.
- Urgent demand for long-duration energy storage to support renewables.
- Government incentives accelerating the transition to clean hydrogen.

We Are Not an Improvement; We Are a New Category

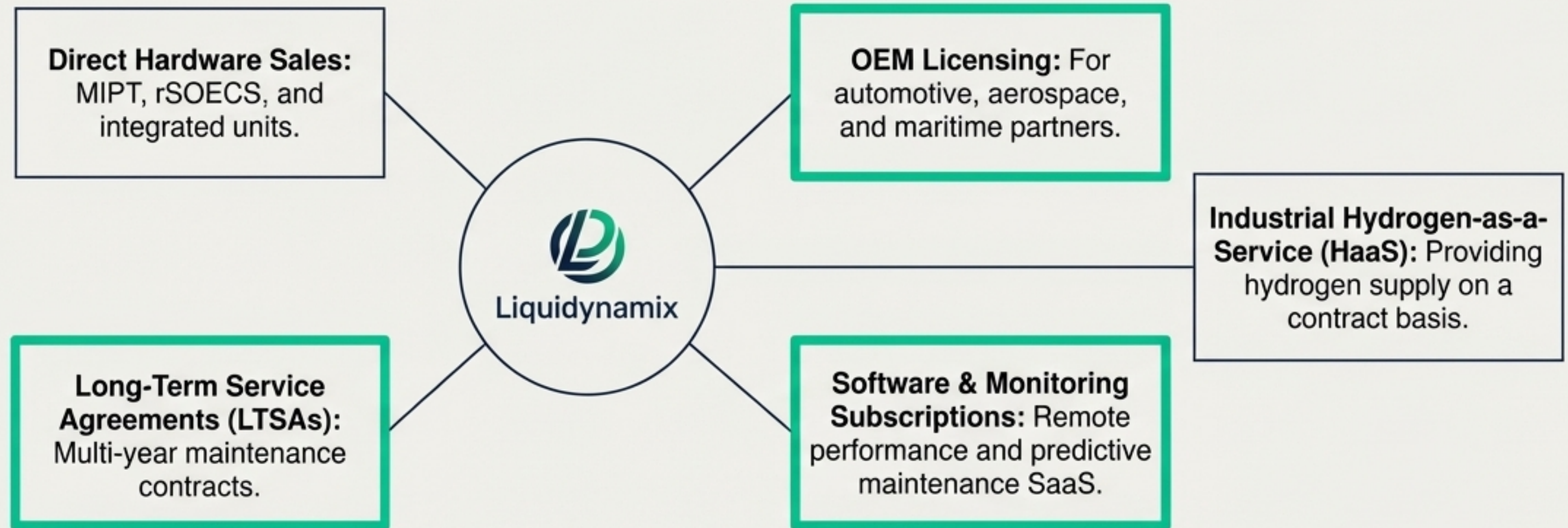


Key Differentiators

- 1. Truly Integrated:** The only MIPT + rSOECS platform worldwide.
- 2. Zero Storage Risk:** Fundamentally safer and simpler.
- 3. Superior TCO:** High efficiency and low CAPEX deliver a better total cost of ownership.
- 4. Unmatched Reversibility:** Seamlessly switches between power generation and hydrogen production.

A Diversified Model Built for Scale and Recurring Revenue

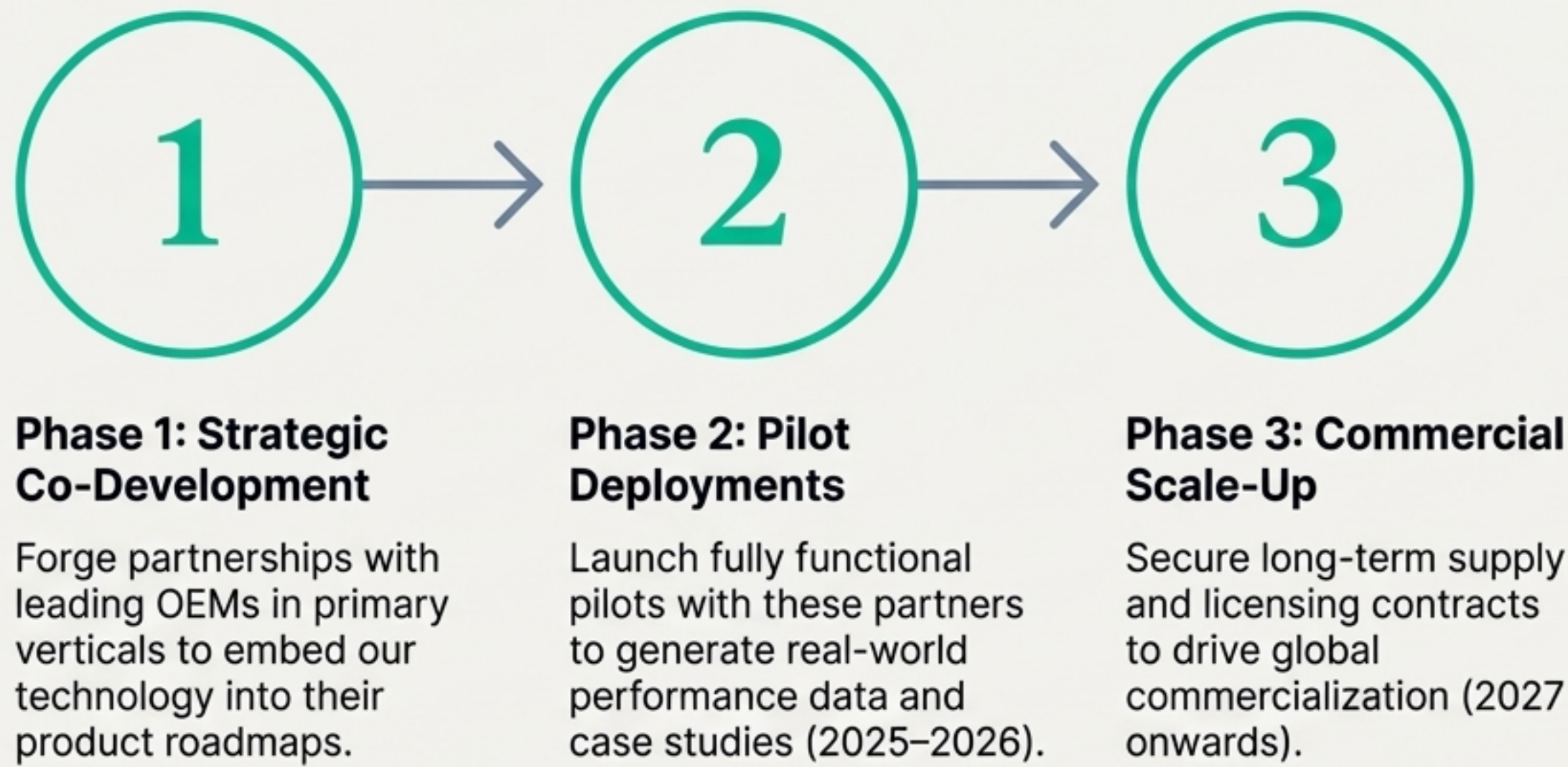
Our strategy combines high-value hardware sales with long-term service and software contracts to build a predictable, high-margin revenue base.



Key Financial Highlight: Recurring revenue from LTSA and software subscriptions is projected to exceed 40% of total revenue at scale.

Our Go-to-Market Strategy Focuses on Co-Development with Industry Leaders

Three-Phase Approach

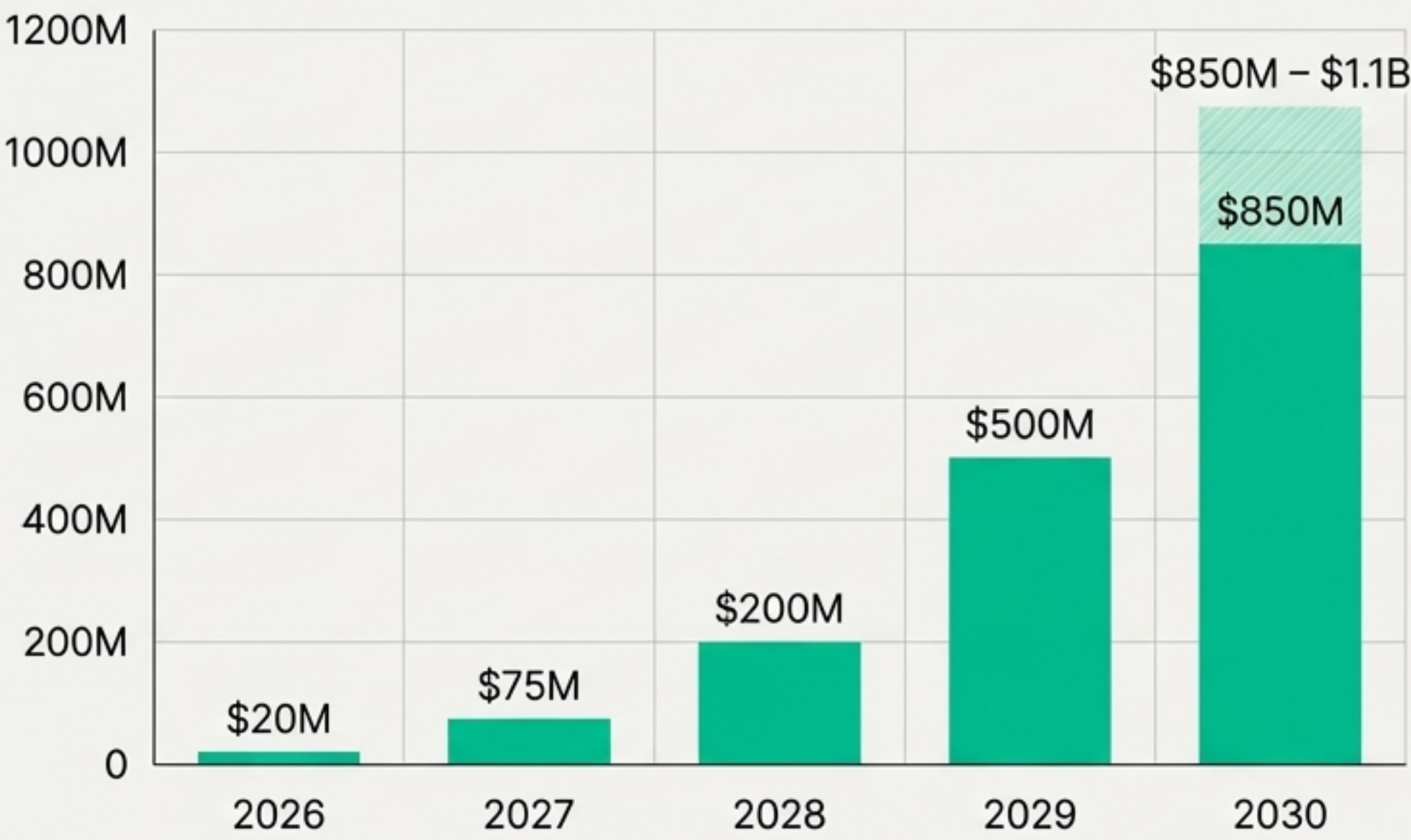


Primary Target Verticals

-  Automotive OEMs
-  Aerospace (Auxiliary Power Units)
-  Maritime Propulsion
-  Grid Energy Storage Providers
-  Data Centres & Microgrids

A Clear Path to \$1 Billion in Annual Revenue by 2030

Projected Revenue Growth (in millions USD)



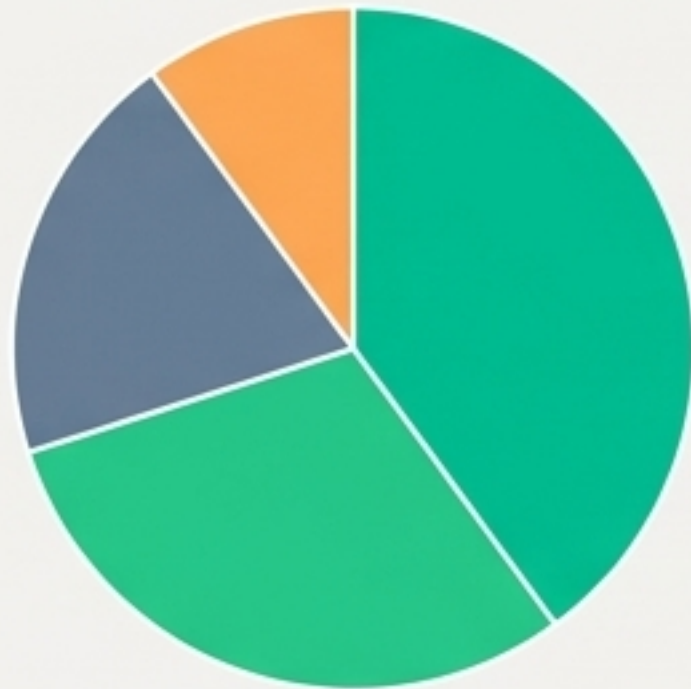
Key Financial Metrics

-  **Target Gross Margin:**
38–45%
-  **EBITDA Margin (2030):**
18–25%
-  **Target Unit Manufacturing Cost:** \$500–\$600/kW
-  **Projected Investor ROI:**
8x–12x

We Are Raising a \$50 Million Series A to Initiate Commercial Scale-up




Seeking \$50 Million in Series A Financing

Use of Funds



- R&D + Engineering (40%):** Finalise productisation and next-gen designs.
- Manufacturing Scale-up (30%):** Build out initial production capacity and supply chain.
- Pilots + Market Expansion (20%):** Fund co-development pilots with key OEM partners.
- Operations (10%):** Expand the core team and support functions.

Key Milestones Unlocked by this Round

-  Complete multiple commercial-scale pilot deployments.
-  Secure first major OEM licensing and supply agreements.
-  Establish initial automated manufacturing line.

Multiple Strategic Pathways to an **8x-12x Return** for Investors

Our unique technology platform and strong IP position create high-value exit opportunities through both public markets and strategic acquisition.

Initial Public Offering (IPO)



Target timeframe of 2029–2030, leveraging strong revenue growth and market leadership.

Strategic Acquisition (High Probability)

Automotive



Aerospace & Defence



AIRBUS

BAE SYSTEMS

Energy



**SIEMENS
energy**

Hydrogen Incumbents

bloomenergy

TOPSOE

****Reasoning**:** Our IP and market position will make us a “must-have” asset for any major industrial player transitioning to a hydrogen economy.

Invest in the Platform that Makes Water the Universal Clean Energy Medium

Liquidynamix is not just a component or a fuel cell. It is the enabling platform for a future where water replaces fossil fuels, powered by technology that is fundamentally safer, more efficient, and scalable.

Market: #00C49A (\$2.5T+) | **Moat:** #00C49A (10-15 Year IP Protection) |
Model: #00C49A (>40% Recurring Revenue) | **Return:** #00C49A (8x-12x Projected ROI)