



OTC ID EXCHANGE

Symbol: IHAI

ADVANCED BATTERY MANAGEMENT TECHNOLOGY PLATFORM

Next Generation Mobility & Critical Energy

A Multi-Market Energy Optimization Platform



A WHOLLY OWNED SUBSIDIARY OF
Innovative Holdings Alliance, Inc.

Investor

Presentation

Q2-2026

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A SINGLE IP PORTFOLIO

Three High-Growth Markets

Battery performance at scale is no longer limited by chemistry: it is limited by how intelligently energy is managed.



AUTOMOTIVE EV

DATA CENTERS

DRONE SYSTEMS

22

ISSUED & PENDING
PATENTS

>20%

VALIDATED
EFFICIENCY GAIN

3

ADDRESSABLE
MARKETS

Company Snapshot

Premergy, Inc. is a U.S. technology development company commercializing a portfolio of 22 issued and pending patents covering advanced battery power management, energy optimization, adaptive energy regeneration, and intelligent battery control systems — across automotive EV, AI data center, drone, and grid storage markets.

PARENT COMPANY



Innovative Holdings Alliance, Inc.

HEADQUARTERS



Port Jefferson, New York, USA

BUSINESS MODEL



Asset-Light: Licensing · Joint Ventures · Patent Enforcement

VALIDATION



Independent 3rd-Party · Clemson University ICAR

MARKETS SERVED



Automotive EV · AI Data Centers · Drones · Grid Storage

PATENTS



35 Issued & Pending Cross-Industry Coverage

TECHNOLOGY FOCUS



Battery Power Management & Energy Optimization

TICKER



OTC: **IHAI**

The Problem Premergy Solves

Batteries are central to mobility, AI infrastructure, and the grid — but the industry's bottleneck has shifted from chemistry to **control**. As installations scale to thousands of modules, intelligent energy management is the limiting factor.



RANGE & RUNTIME

EV range anxiety and drone flight time remain unsolved. Conventional single-bank type architectures waste energy under variable load conditions.

BATTERY STRESS

High-power cycling causes thermal stress, accelerates degradation, and shortens battery life, driving up total cost of ownership.



CONTROL AT SCALE

Grid-scale and data center installations require millisecond-scale load response. Chemistry alone cannot deliver it — the control architecture must.



A Patented, Three-Part Architecture

A

MULTI-CHEMISTRY BATTERY SYSTEM

Dual-bank architecture one bank optimized for steady-state cruise power, the other for surge power on demand. Chemistry-agnostic: NMC, LFP, LTO.

Chemistry-Agnostic Design

B

ADAPTIVE ENERGY REGENERATION

Proprietary capture at speeds as low as 5 mph — well below conventional regen thresholds. Dynamically routes recovered charge to the optimal bank.

Effective from 5 mph

C

BATTERY CONTROL SYSTEM (BCS)

Three-tier algorithmic control: Supervisory, Drive Mode, and Switching Controllers. Integrates into existing software with minimal rewriting. AI-overlay ready.

AI-Overlay Ready

INDEPENDENTLY

Validated Performance

Technology confirmed by independent dynamometer testing at Clemson University's International Center for Automotive Research, combined with 700+ miles of on-track validation.

>20%

ENERGY EFFICIENCY GAIN
Increase in range / efficiency

100+

DYNAMOMETER HOURS
Clemson University ICAR

700+

ON-TRACK MILES
Atlanta Motorsports Park

0

THERMAL EVENTS
Never activated in testing



ONE PLATFORM. THREE VERTICALS. SHARED IP.

Multi-Billion Dollar Addressable Markets

VERTICAL ONE

15.1B

TAM

AUTOMOTIVE EV

ESTABLISHED | CONTINUED

- >20% range improvement validated
- Chemistry-agnostic, OEM-ready
- Tier-1 licensing pathway

VERTICAL TWO

17.3B

TAM

AI DATA CENTERS

NEW PRIORITY

- 41% of U.S. battery demand in 2026
- Millisecond-scale load response
- UPS cycling energy capture

VERTICAL THREE

4.7B

TAM

DRONE / UAV

NEW PRIORITY

- \$4.79B market, 9.1% CAGR
- 15–25% flight time improvement
- Defense & commercial JV model

FOUNDATIONAL VERTICAL

Automotive EV

Premergy's automotive portfolio remains its largest and most mature IP asset. The underlying consumer problems — range anxiety and thermal stress — remain unsolved globally.

APPLICATIONS



PASSENGER EVs

COMMERCIAL
FLEETSMEDIUM/HEAVY
DUTYPERFORMANCE
VEHICLES

>20%

VALIDATED RANGE /
EFFICIENCY GAIN

100+

CHEMISTRY-AGNOSTIC
(NMC, LFP, LTO)

NEW PRIORITY VERTICAL

AI Data Centers — The Inflection Point

AI training and inference require millisecond-scale load response — precisely where Premergy's Battery Control System delivers its greatest advantage. Even a 3–5% efficiency improvement across a 100 MW installation generates millions in annual savings.

Tesla's energy storage achieved ~30% gross margins in 2025 vs. 18% for EVs — Ford, LG, and Samsung SDI are converting EV capacity to data center storage.

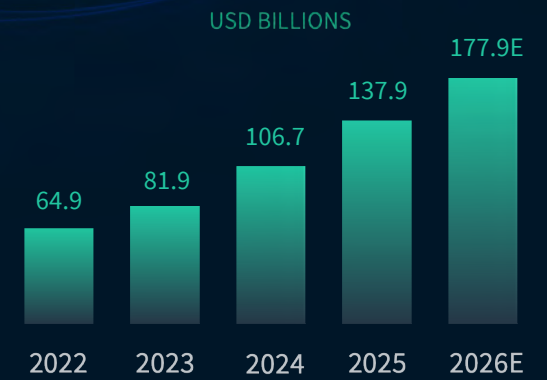
41%

OF U.S. BATTERY DEMAND

Attributed to energy storage in 2026



U.S. BATTERY DEMAND Energy Storage Share



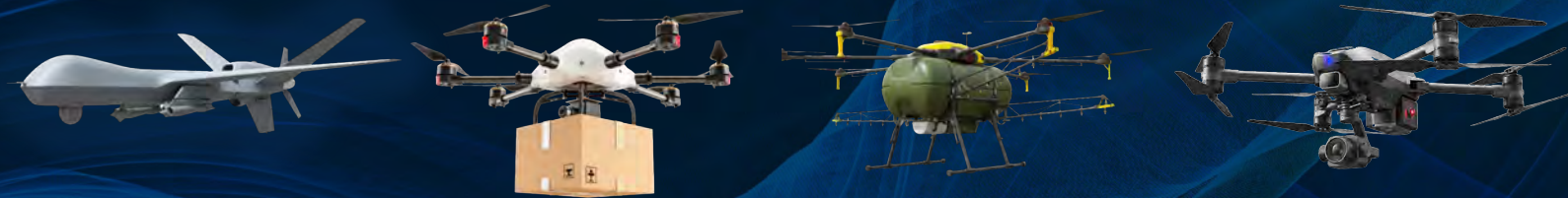
*SOURCE: GM INSIGHTS

NEW PRIORITY VERTICAL

Drone & UAV — A New Frontier

Flight time and payload capacity are the defining performance constraints across every drone application — defense, delivery, agriculture, infrastructure inspection, and emergency response.

Premergy's multi-chemistry system extends usable energy without increasing battery size, while adaptive regeneration captures energy during descent and hover phases.



DEFENSE

DELIVERY

AGRICULTURE

INFRASTRUCTURE

\$4.79B

U.S. COMMERCIAL DRONE MARKET

Estimated growth at 9.1% CAGR
through 2030

15–25%

FLIGHT TIME IMPROVEMENT

Preliminary analysis — defense &
commercial

35 Patents Across Six Technology Domains

BATTERY CONTROL SYSTEM

Intelligent switching of plural battery banks based on real-time operational conditions.

AUTO · DATA CENTERS · DRONES · POWER GEN

MULTI-CHEMISTRY SYSTEM

Plural batteries with distinct chemistries, each optimized for a specific function.

AUTO · AEROSPACE · GRID · DRONES

ADAPTIVE REGENERATION

Capture effective from 5 mph; dynamically routes charge to the optimal bank.

AUTO · DRONES · ENERGY STORAGE

SOLAR PANEL SYSTEMS

Intelligent circuit control for solar panel energy distribution and charging optimization.

RENEWABLE ENERGY · GRID STORAGE

MOBILE DEVICE BATTERIES

Smart dual-battery charging and switching for faster, more efficient mobile power management.

CONSUMER ELECTRONICS · IOT · MOBILE

HOMOPOLAR GENERATORS

Converting rotational kinetic energy to electrical energy through magnetic flux field.

AUTO · POWER GENERATION · INDUSTRIAL

Patent Enforcement

A SIGNIFICANT UNPRICED CATALYST

INFRINGEMENT ACTIONS UNDERWAY

Premergy has identified that several major power and automotive technology companies have infringed its patents. Experienced patent litigation counsel is pursuing these through formal legal channels.

MONETARY AWARDS

Recent U.S. patent verdicts have ranged from tens to hundreds of millions of dollars, especially where infringed IP is fundamental to product performance.

SETTLEMENT VALUE

Well-capitalized defendants typically prefer confidential settlements over trial — often resulting in substantial lump-sum payments.

INDEPENDENT OF COMMERCIAL TRACK

Fully complementary to commercial licensing and JV strategy. Both tracks run in parallel. **12–36-month outcome horizon.**

Asset-Light. Three Revenue Streams.

Premergy licenses its IP rather than manufacturing products — minimizing overhead, enabling rapid multi-market scale, and maximizing value to shareholders.



TECHNOLOGY LICENSING

Per-unit royalties and upfront license fees to OEMs, Tier-1 suppliers, and integrators across all four markets.



JOINT VENTURES

Strategic JDAs and JV agreements with partners that have existing sales infrastructure and market access. Revenue share without production capex.



PATENT ENFORCEMENT

Monetary awards, settlements, and forced licensing from infringement actions against industry participants already using Premergy's technology.

Competitive Advantage

1

BROAD PATENT MOAT

22-patent portfolio spans six domains. PCT filings extend protection internationally.

2

CHEMISTRY AGNOSTIC

BCS algorithms operate across NMC, LFP, LTO — all three verticals, no redesign

3

THIRD-PARTY VALIDATED

100+ dynamometer hours at Clemson ICAR and 700+ miles of on-track testing.

4

ASSET-LIGHT SCALE

Licensing-first. Enforcement adds a non-dilutive pathway. Three markets reduce risk.

5

MULTI-MARKET LEVERAGE

A single IP portfolio monetizes across auto, data center, and drone markets concurrently.

6

CONTROL AS THE NEW MOAT

As installations scale, control architecture — not chemistry — becomes the limiting factor. Premergy owns this layer.

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Experienced Leadership

Decades of combined experience spanning capital markets, advanced engineering, and OEM/Tier-1 automotive supply.



Michael Pruitt

BOARD MEMBER & INTERIM CEO

25+ years in merchant banking and public company leadership, including founding Avenel Financial Group and as Chairman and Interim CEO/Board Member of Forward Industries, Inc (Nasdaq:FWDI)



Richard Botts

CTO & INVENTOR

27+ years of engineering experience. Named inventor on the foundational Premergy patents covering multi-chemistry management, regeneration, and BCS control technology.



William Hayde

SECRETARY & TREASURER

30-year investment banker and fund director. Leads Premergy's capital strategy, licensing negotiations, and public-company reporting under parent company IHA.



OTC:IHAI



The control layer above
chemistry is the next-generation
battery stack

Premergy has already built it.



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