

Accelerating Energy Transition Through Battery Materials Discovery and Health Management



January 2026

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Risk Factors” in our annual report on Form 10-K for the fiscal year ended December 31, 2024 filed with the Securities and Exchange Commission (“SEC”) on February 28, 2025, as amended on April 30, 2025 and other documents filed from time to time with the SEC. There may be additional risks that SES presently knows and/or believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements. In addition, forward-looking statements reflect SES's expectations, plans or forecasts of future events and views only as of the date of this presentation. SES anticipates that subsequent events and developments will cause its assessments to change. However, while SES may elect to update these forward-looking statements at some point in the future, SES specifically disclaims any obligation to do so. 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ACCELERATING THE ENERGY TRANSITION THROUGH AI

UNIQUELY POSITIONED TO SOLVE THE ISSUES OF BATTERY DEVELOPMENT AND SAFETY REQUIREMENTS

- Standard timelines are a hindrance to adoption of new technology with ingrained R&D processes by the largest cell makers
- Energy transition needs are requiring more integration of AI software and hardware along with precise battery health monitoring

SES AI ACQUISITIONS AND TECHNOLOGY ARE ADDRESSING LARGE, RAPIDLY DEVELOPING MARKETS IN A CAPEX-LIGHT MANNER

- The ESS market is expected to be 10x the size of the EV market within the next 10 years¹
- Global ESS battery shipments are expected to grow from 300 GWh in 2024 to 1,400 GWh in 2030²
- Global military drone battery market is expected to grow from \$9.5bn in 2025 to \$21.8bn in 2030³

SUCCESSFULLY COMMERCIALIZING OUR IP FOR EXPECTED REVENUE GROWTH AND VALUE CREATION IN 2026 AND BEYOND

- Core intellectual property of SES Molecular Universe provides competitive advantages for ESS, Cells and Electrolyte Materials businesses
- Molecular Universe has evolved into our own AI4Science company and a virtually untapped asset with robust comparable valuation markers in the private market

KEY PRODUCT, REVENUE, DEVELOPMENT AND PROFITABILITY MILESTONES INTACT

- Revenue of \$16.4 million in the first three quarters of 2025 and previously issued guidance of \$20 million to \$25 million for full year 2025
- Strong liquidity position of \$214 million as of September 30, 2025

Source:

1. *Meticulous Research. (2023, June). Battery Energy Storage System Market - Global Forecast to 2030*
2. *CATL's A1 Prospectus, GGII Report*
3. *Precedence Research*

“The Genesis Mission marks a defining moment for the next era of American science. We are linking the nation’s most advanced facilities, data, and computing into one closed-loop system to create a scientific instrument for the ages, an engine for discovery that doubles R&D productivity and solves challenges once thought impossible.”

Dr. Darío Gil, Under Secretary for Science and Genesis Mission Director (DOE)

SES AI History

2012

Est.
(MIT spinoff)

2017

Started AI Initiative

Battery Cell Data
Collection Across
Multiple Chemistries
– Powering Predictive
Models

2021

Built NDAA-compliant
Li-Metal cell
manufacturing line in
Chungju, South Korea

Sign **world's first
EV A-sample** (GM,
Hyundai, Honda)

2022

NYSE Listing
(NYSE: SES)

2023

Opened
**Electrolyte
Foundry** Boston,
USA

2024

Entered **EV B-
sample** (Hyundai
and Honda)

Booked 1st
Revenue

2025

Launched
Molecular Universe

Acquired UZ for ESS

Formed JV with Hisun
for Materials

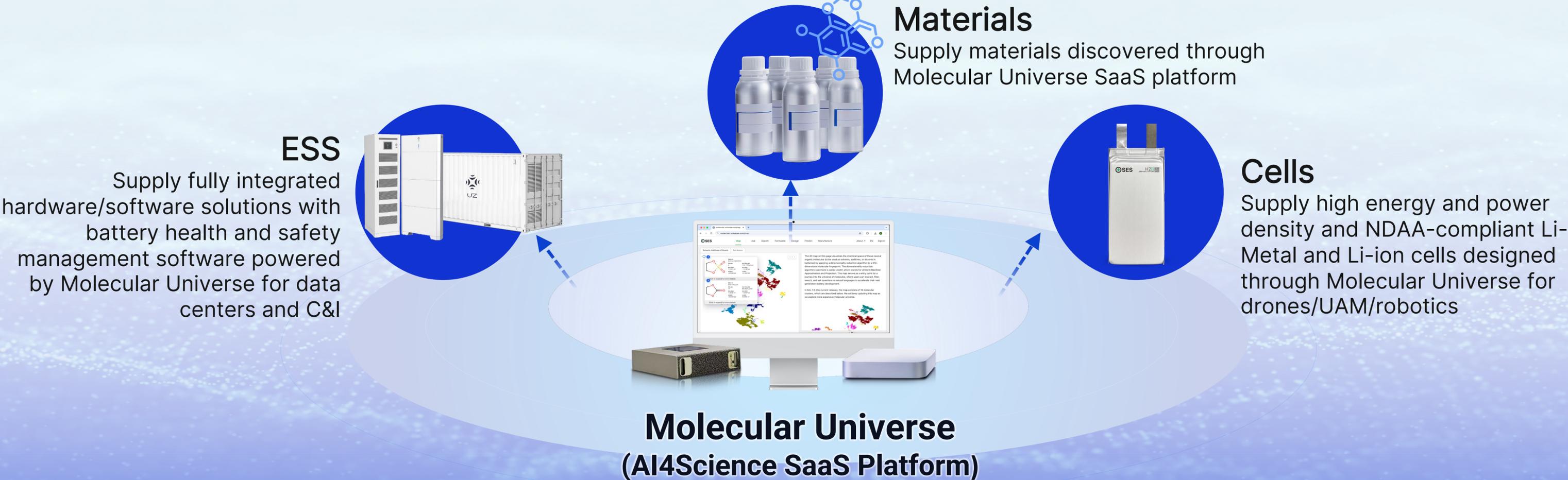
Partnered with
Top Materials for Drones
(NDAA-compliant cells)

2026

Establish **3 Business Units:**
ESS, Drones, Materials
focusing on revenue
generation

Molecular Universe
focusing on value
generation

Multi-Pronged Business Opportunities Enabled by SES AI's Core Molecular Universe Platform



Revenue Generation

Focus on fast growing markets (ESS, Drones and Materials) and our unique value proposition for each driven by our compelling intellectual property and targeted business plans

Value Generation

Molecular Universe is an AI4Science platform comparable to private, pre- and early-revenue AI4Science peers such as Periodic Labs, SandboxAQ and DP Tech, among others, who have raised capital in 2025 at valuations ranging from ~\$1bn to ~\$5bn

ESS (Acquisition of UZ)

Supply fully integrated hardware/software solution for data centers and C&I



SES AI Material discovery
(ESS is #1 most searched query on MU)



Cell



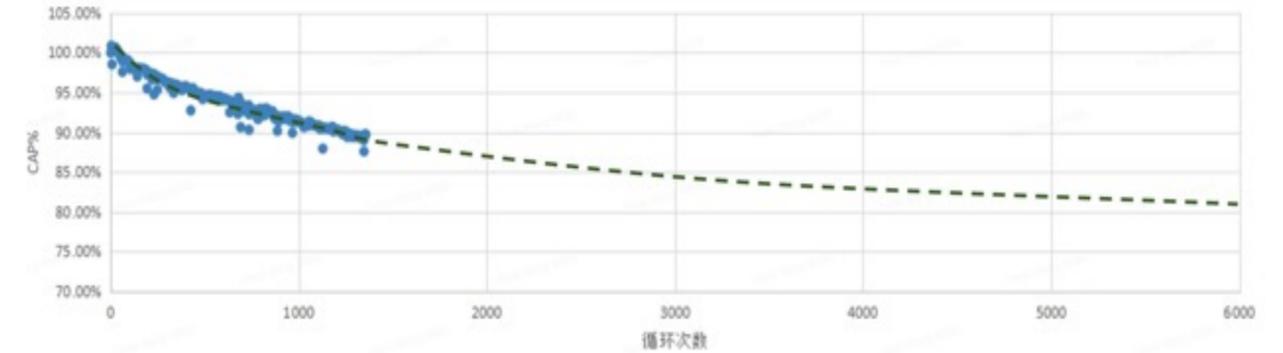
Module



Pack



ESS Solution



SES AI Battery Health Monitoring
(Ensure safety and lifetime)



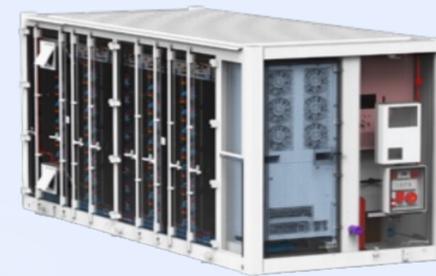
5-10kWh



10-100kWh



100-500kWh



5MWh



- Molecular Universe battery health management software can predict safety issues and reduce maintenance/operation cost
- UZ, with its >500MWh of manufacturing capacity and customers in over 60 countries, provides valuable real-world data to further train Molecular Universe

Materials (JV with Hisun)

Supply materials discovered through Molecular Universe on a commercial scale

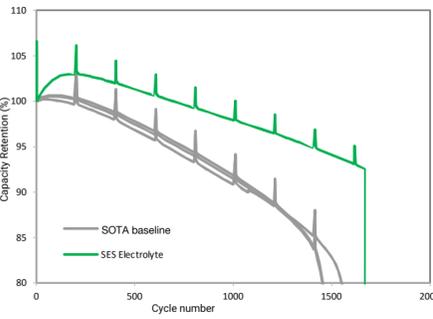
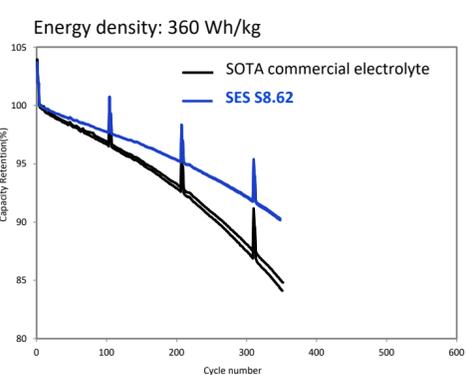
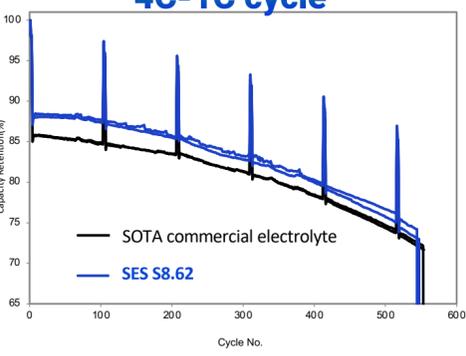
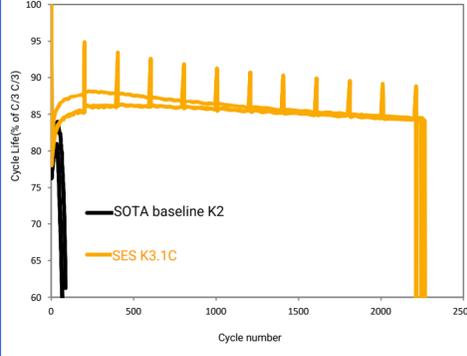
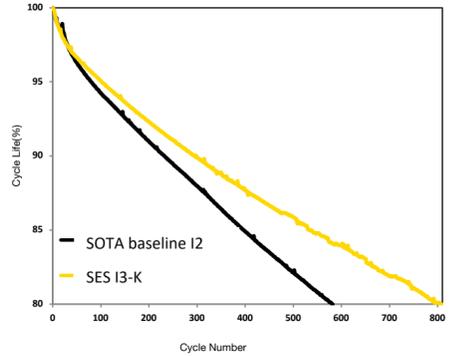
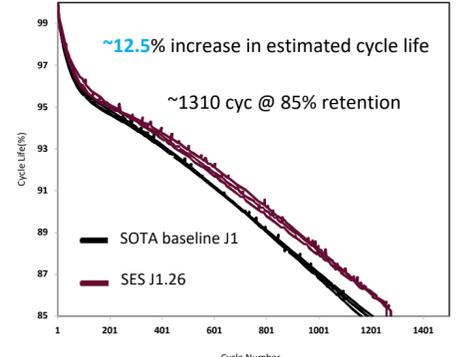
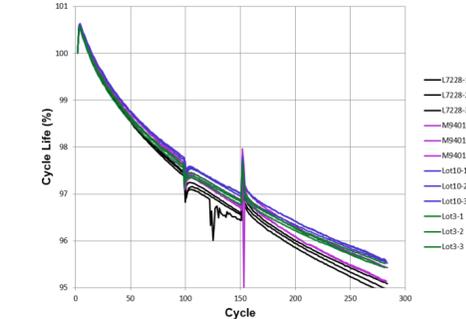
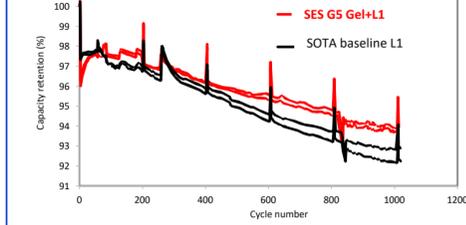
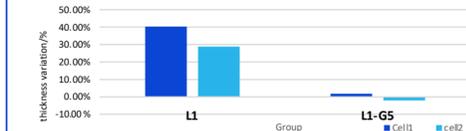
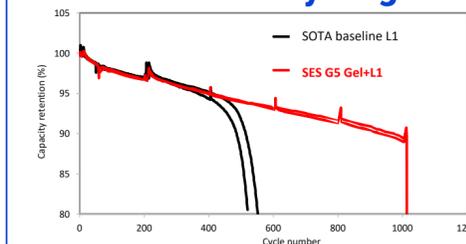
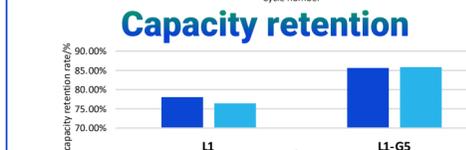
Currently **6 breakthroughs** discovered through Molecular Universe being tested at **40+ customers**

- A. SES H2.32 – better cycle life and storage for EV
- B. SES S8.62 – better cycle life and power density for Drones
- C. SES K3.1 – better low-temp cycle life and power density for Heavy Duty Trucking
- D. SES I3/J1 – better cycle life and longer life for Consumer Electronics
- E. SES K3/4/11 – better cycle life and low-temp performance for ESS and EV
- F. SES G5-Gel – better cycle life and storage for Consumer Electronics



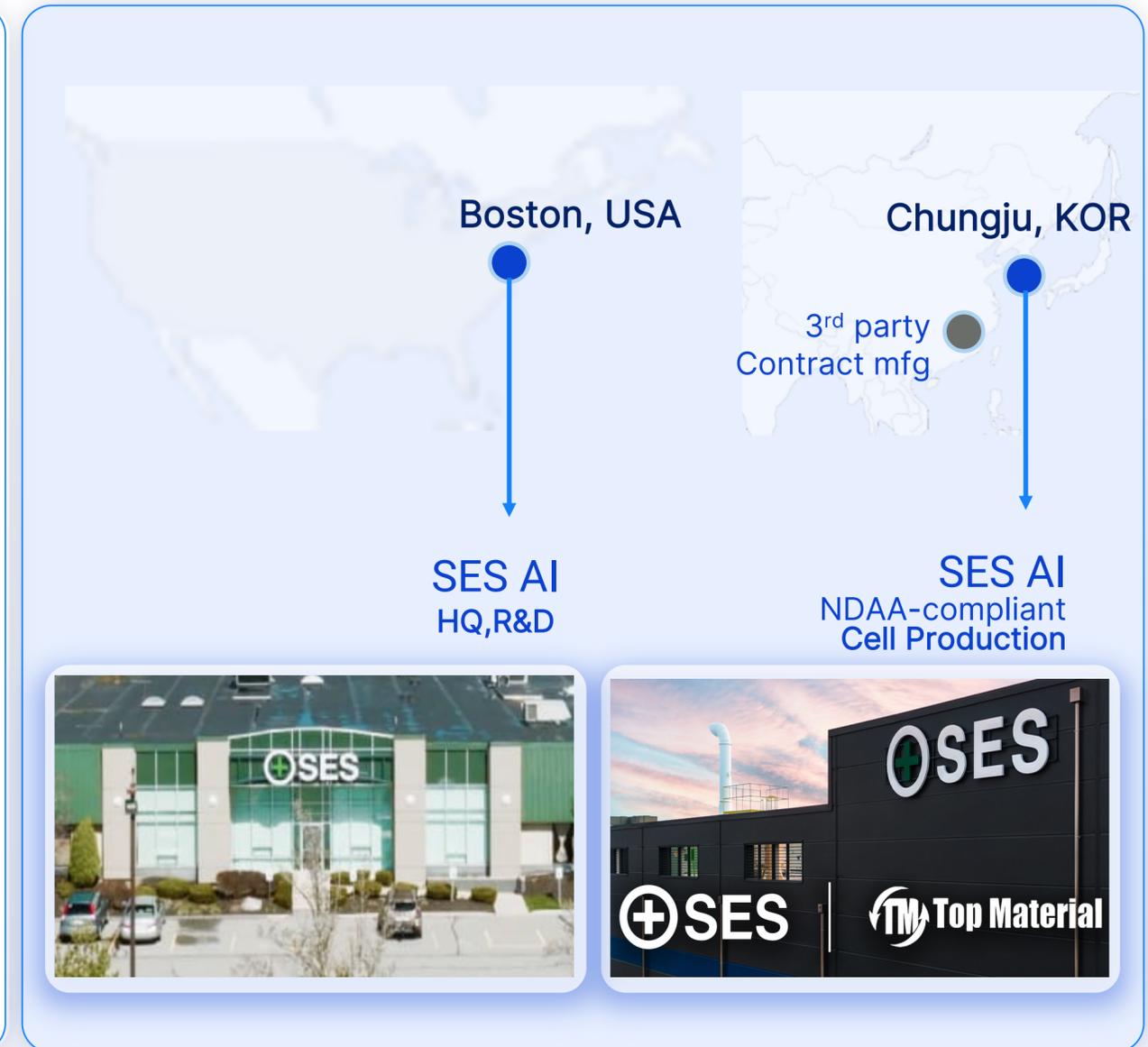
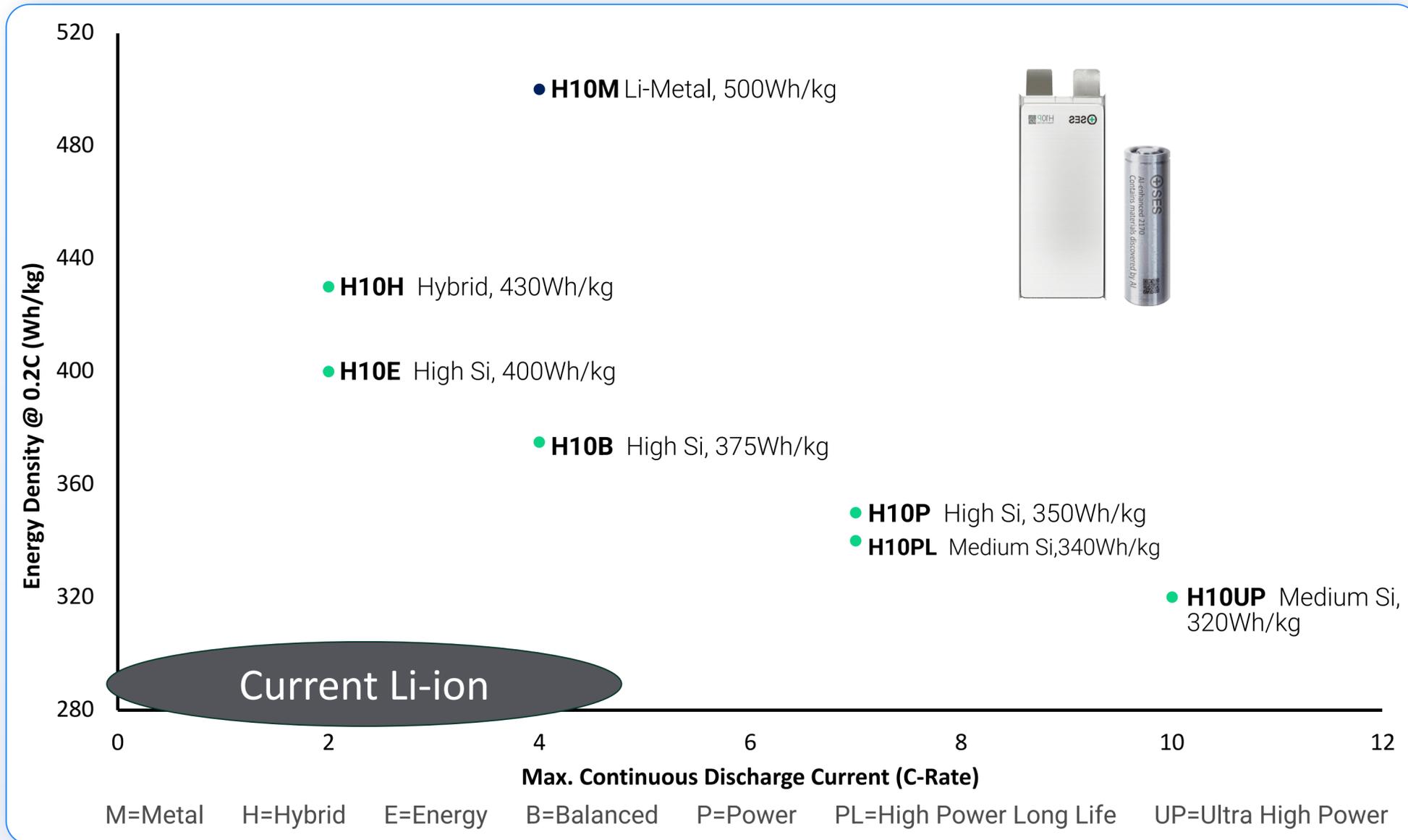
Materials (materials breakthroughs discovered through Molecular Universe SaaS)

Molecular Universe has already discovered 6 novel electrolyte materials across multiple applications

Electrolyte Product Name	A. SES-H2.32	B. SES-S8.62	C. SES-K3.1	D. SES-I3/J1	E. SES-K3/4/11	F. SES-G5-Gel
Cell Chemistry	Low Si anode –NCM811	High Si /Li-Metal – NCM811	Graphite anode- LFP	Si/Gr anode-LCO or NCM	Graphite anode - LFP	Graphite anode - LCO
Applications	EV	Drones/UAM	Heavy-duty Trucking	Consumer Electronics, EV	ESS or EV	Consumer Electronics
Key Improvements	Better RT cycle life and 60°C storage	Better RT cycle life and C-rate	Better LT cycle life and C-rate	Better RT and 45°C cycle life	Better RT cycle life, 60°C storage and -20°C C-rate	Better RT cycle life and 45°C storage
	<p>1C-1C</p>  <p>SES electrolyte outperformed commercial electrolyte reported in SOTA</p>	<p>1C-1C cycle</p> <p>Energy density: 360 Wh/kg</p>  <p>4C-1C cycle</p>  <p>Develop electrolytes to enable >20% cycle life improvement over commercial benchmark under 1C/1C and 4C/1C for 100%Si battery chemistry</p>	<p>4C-4C cycle</p>  <ul style="list-style-type: none"> ● K3.1-C electrolyte demonstrates further increased cycle life compared to SOTA baseline electrolyte at 4C-4C cycling condition ● Cells are currently still cycling 	<p>4.4V-3V (1C-1C) at 45°C</p>  <p>4.45V-3V (4C-1C) at 25°C</p>  <p>SES I3-K and J1.26 electrolytes demonstrate better stability than SOTA baseline electrolytes under high voltage charge (4.4V/4.45V) and fast charge (4C)</p>	<p>45°C 1C-1C</p>  <p>SES Lot 3/Lot 10 are the most promising, compared to SOTA baseline</p>	<p>1C-1C at 25°C cycling test</p>  <p>thickness variation after 7-Day Storage at 60°C</p>  <p>1C-1C at 45°C cycling test</p>  <p>Capacity retention</p>  <p>In terms of capacity retention, gel electrolytes demonstrate better stability than liquid electrolytes at 1C-1C at 25°C and 45°C as well as high temperature storage, SES electrolyte outperformed SOTA baseline</p>

Drones (manufacturing partnership with Top Material)

Supplying High Energy and Power Density and NDAA-compliant Li-Metal and Li-ion Cells



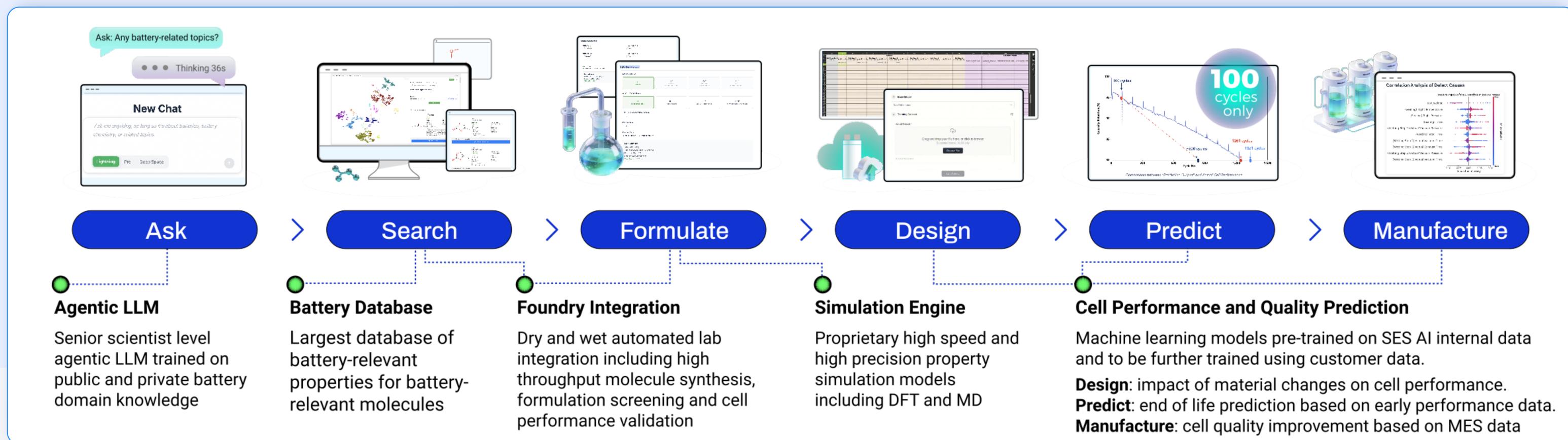
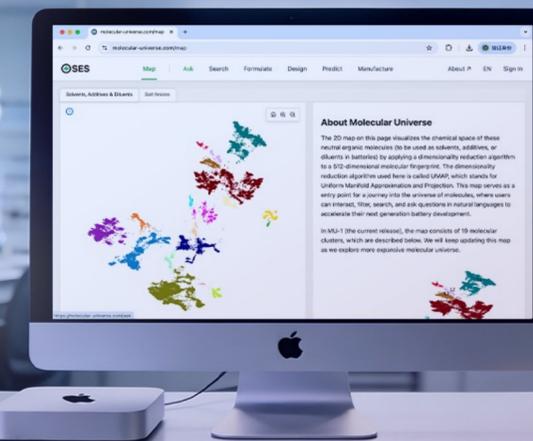
- High Energy Density: up to 500 Wh/kg
- High Power Density: up to 10C continuous
- With materials discovered through Molecular Universe
- NDAA-compliant own manufacturing capacity: 1m cells/year (can scale up)
- 3rd party contract manufacturing capacity: 10m cells/year (can scale up)

An AI4Science Platform Built by Battery Professionals, for Battery Professionals

This is the reality of today's R&D

\$200B+ spent
8–10 year timelines
80% failure

Repeat the old ways—or accelerate discovery with Molecular Universe, an AI4Science SaaS platform covering the complete end-to-end workflow. It has already helped users discover several breakthroughs including battery materials for consumer electronics, drones, energy storage and EV applications.



Why Molecular Universe is the best battery domain AI4Science platform

- 1 Incubated at a battery company, SES AI, since 2017
- 2 Offers latest high precision and high-speed simulation models, high quality experimental data, and world class domain expertise
- 3 Available both in cloud (for your convenience) and on-premises (for your security)

PRIORITIES FOR 2026 AND BEYOND

LEVERAGE NEW BUSINESS UNIT LEADERSHIP TO EXECUTE ON ESS AND DRONE CELL OPPORTUNITIES

- Experienced industry veteran leading commercial and military drone and urban air mobility initiatives as well as ESS software integration of battery health monitoring
- New sales lead experienced in selling military customers

EXECUTE ON CONVERSION OF NDAA-COMPLIANT LINE IN KOREA FROM EV CELLS TO DRONE CELLS WITH TOP MATERIALS PARTNERSHIP

- Expansion of existing capacity from ~300K cells/year to ~1M cells/year expected in second half of 2026
- Additional capacity available for non-US of ~10M cells/year through contract manufacturing

CONTINUE GROWTH OF UZ ENERGY'S EXISTING HARDWARE BUSINESS IN AUSTRALIA, MIDDLE EAST, EUROPE AND U.S.

DELIVER ON EXISTING NOVEL ELECTROLYTES DISCOVERED BY MOLECULAR UNIVERSE IN MATERIALS BUSINESS WITH HISUN JV AND CONTINUE TO EXPAND PIPELINE

- Six electrolyte discoveries are currently in commercial qualification with a pipeline of ~30 others leading to more visibility beyond 2026

LEVERAGE MOLECULAR UNIVERSE MATERIAL DISCOVERY TO ACCELERATE NEW PRODUCT DEVELOPMENT AND BUILD FURTHER LEAD OVER COMPETITION

FOCUS ON CAPEX-LIGHT BUSINESS MODEL IN ESS, CELLS AND MATERIALS WITH R&D CONCENTRATED IN MOLECULAR UNIVERSE



All-in on AI™

+SES