



ABOUND

an energy solutions company

January 2025



CSE: ABND – OTC: ZAIRF – FSE: 0E9

WHERE ENERGY KNOWS NO BOUNDS

IMPORTANT DISCLOSURES...

Certain information in this presentation constitutes forward-looking statements under applicable securities laws. Any statements that are contained in this presentation that are not statements of historical fact are forward-looking statements. Forward looking statements are often identified by terms such as “may”, “should”, “anticipate”, “expect”, “potential”, “believe”, “intend”, “estimate” or the negative of these terms and similar expressions. All statements, other than statements of historical fact, included herein are forward-looking statements and are based upon assumptions regarding expected growth, results of operations, performance, industry trends and expansion opportunities as of the date of this presentation. Forward-looking statements in this presentation include, among other things, statements regarding: the Company’s ability to execute the development and commercialization of a dependable low-cost zinc-air battery; the Company’s mass storage system’s ability to offer both environmental and efficiency benefits; the Company’s ability to meet the needs for secure and reliable power; that the Company’s technology will work as described herein; that there will be market adoption of the Company’s technology; that the Company’s technology is superior to the technology of its competitors; that the Company’s technology will be scalable; that there are cost savings for longer duration storage systems; that there is an abundance of the raw materials required for the production of the Company’s products; that the Company will commence manufacturing of its products; that there is a large and growing market for the Company’s products and that the Company will be able to address market demands for its products; the projected market data for behind the meter and front of meter technology; that government regulation will continue to drive adoption of battery storage solutions; that there will continue to be a favorable regulatory landscape for the Company’s business; that the Company’s production, if any, will be at the rate and on the timeline described in this presentation; that the Company will be able to scale production if required; that the Company will execute its business plan as described herein; and other statements relating to the Company’s future plans.

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This presentation contains future-oriented financial information and financial outlook information (collectively, “FOFI”) about the Company’s prospective results of operations, including revenue from sales, tax credits and other sources, size of a prospective market for the Company’s product, and potential value of tax credits that may be available to the Company and the timeline for their availability, all of which are subject to the same assumptions, risk factors, limitations, and qualifications as set forth in the above paragraphs. FOFI in this presentation may not prove to be accurate and actual financial results could be materially different than the estimates herein for a variety of reasons. FOFI contained in this presentation was made as of the date of this presentation and was provided for the purpose of providing further information about the Company’s future business operations. The Company disclaims any intention or obligation to update or revise any FOFI contained in this presentation, whether as a result of new information, future events or otherwise, except as required by securities law. Investors are cautioned that the FOFI contained in this presentation should not be used for purposes other than for which it is disclosed herein. The FOFI and financial outlook in this presentation were approved by management of the Company.

OVERVIEW – ABOUND ENERGY



[CORPORATE VIDEO](#)

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OVERVIEW – ABOUND ENERGY

WHAT WE DO...

Cost-effectively **store and sustainably integrate Green Energy into the grid**, reducing overall power curtailment and improving grid stability and resiliency.

HOW WE DO IT...

Utilize our Zaeras™ Technology to safely **store and deliver vast amounts of electricity on demand** without the restrictions or risks associated with today's market leaders.

WHY WE DO IT...

To streamline Long-Duration Energy Storage, thereby **meeting future energy needs and enhancing shareholder value**.

THE EVOLUTION OF ENERGY STORAGE...

Zaeras™ stands apart from conventional or legacy technologies; it represents the next generation of **LONG DURATION ENERGY STORAGE (LDES)** innovation, disrupting the industry with its cutting-edge decoupled approach.

The **Industry** is in transition here:

Zaeras™ is built to be here:



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PROBLEM - ELECTRIFICATION AND SUSTAINABILITY...



Traditional Power...

- Emit GHG
- Utilize **Outdated fossil fuel Peaker plants** dating back several decades
- **Expensive** and time-consuming construction of **transmission and distribution infrastructure**
- **Unable to meet** the increasing **demand** for electricity.



Green Energy Transition...

- **Grid instability** stems from the **intermittent nature of renewable energy** sources.
- **Curtailing** excess **energy** during periods of oversupply leads to the **squandering of renewable resources**.
- The absence of Grid Resilience is a direct outcome of sudden drops in renewable energy generation.
- **Present batteries** are subject to limitations such as **high costs**, **flammability**, **restricted operating cycles**, and **scalability constraints**.



Tomorrows Energy Storage...

- **Resiliency**
- **Cost-Effective**
- **Enhanced Safety**
- **Future-Proof**
- **Seamless Integration**
- **Infinite Scalability**



Existing energy storage technologies lack the cost-effectiveness and operational flexibility necessary to effectively support the green energy transition.

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ZAERAS™ - Value Proposition...

Providing affordable & highly scalable energy storage solutions with flexible operating parameters, enabling seamless integration of green energy & deferring investments in transmission & distribution infrastructure.



Resiliency: Provide lasting performance with the capability for **full discharge without degradation** and **unrestricted charge & discharge cycles**, ensuring **zero capacity fade** throughout its lifespan.



Future-Proof Architecture: Build on a **flexible, adaptable** and **patented two-system-one-tank** architecture, designed to **evolve** and **support emerging** storage requirements.



Cost-Effective Solutions: Benefit from the **low-cost chemistry** and **power & energy decoupling**, Zaeras™ **reduces the capital cost** by 2/3.



Infinite Scalability: **Scale to meet** the **evolving needs** of diverse jurisdictions and businesses, providing **smooth adaptation** to **varying demands**.



Enhanced Safety: Utilize a **zinc-based, non-flammable, environmentally friendly** solution in a **non-pressurized** system ensures peace of mind.

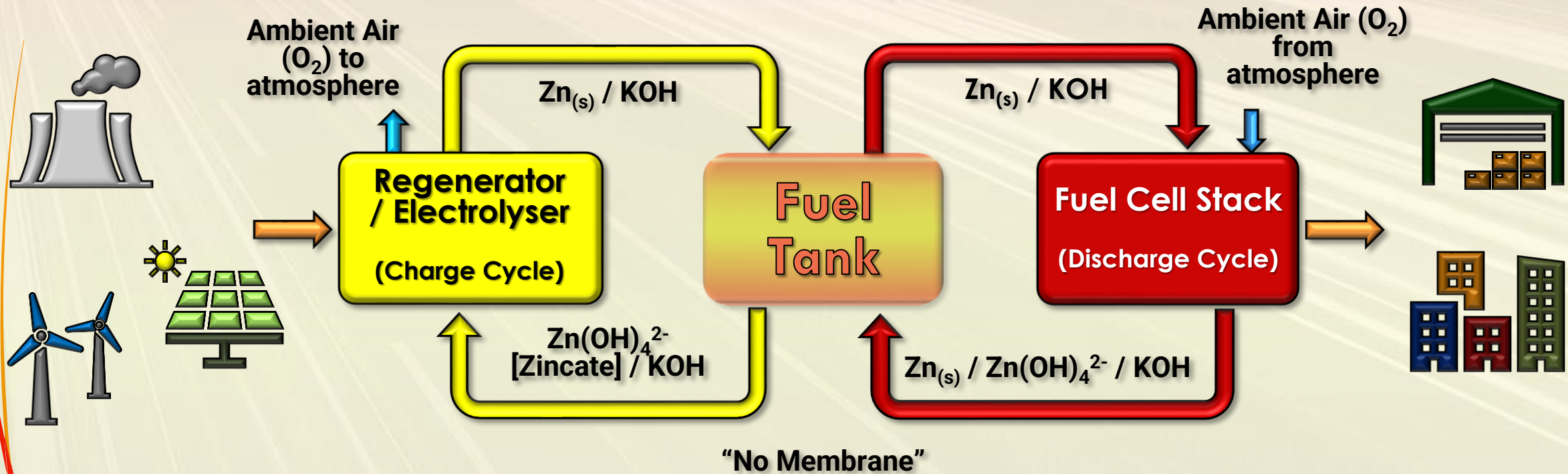


Seamless Integration: Can be **integrated** with **existing systems** and workflows, **minimizing disruption** and **simplifying the adoption process** for users.

*Flow battery technology does not stand still. **New ideas are buzzing through the industry. There are better ways of optimising performance, validating state of charge, improving lifetimes, choosing better materials to reduce costs, and improved manufacturing processes.*** -March 2024

IFBF The International Flow Battery Forum™

THE SCIENCE BEHIND ZAERAS™ ...

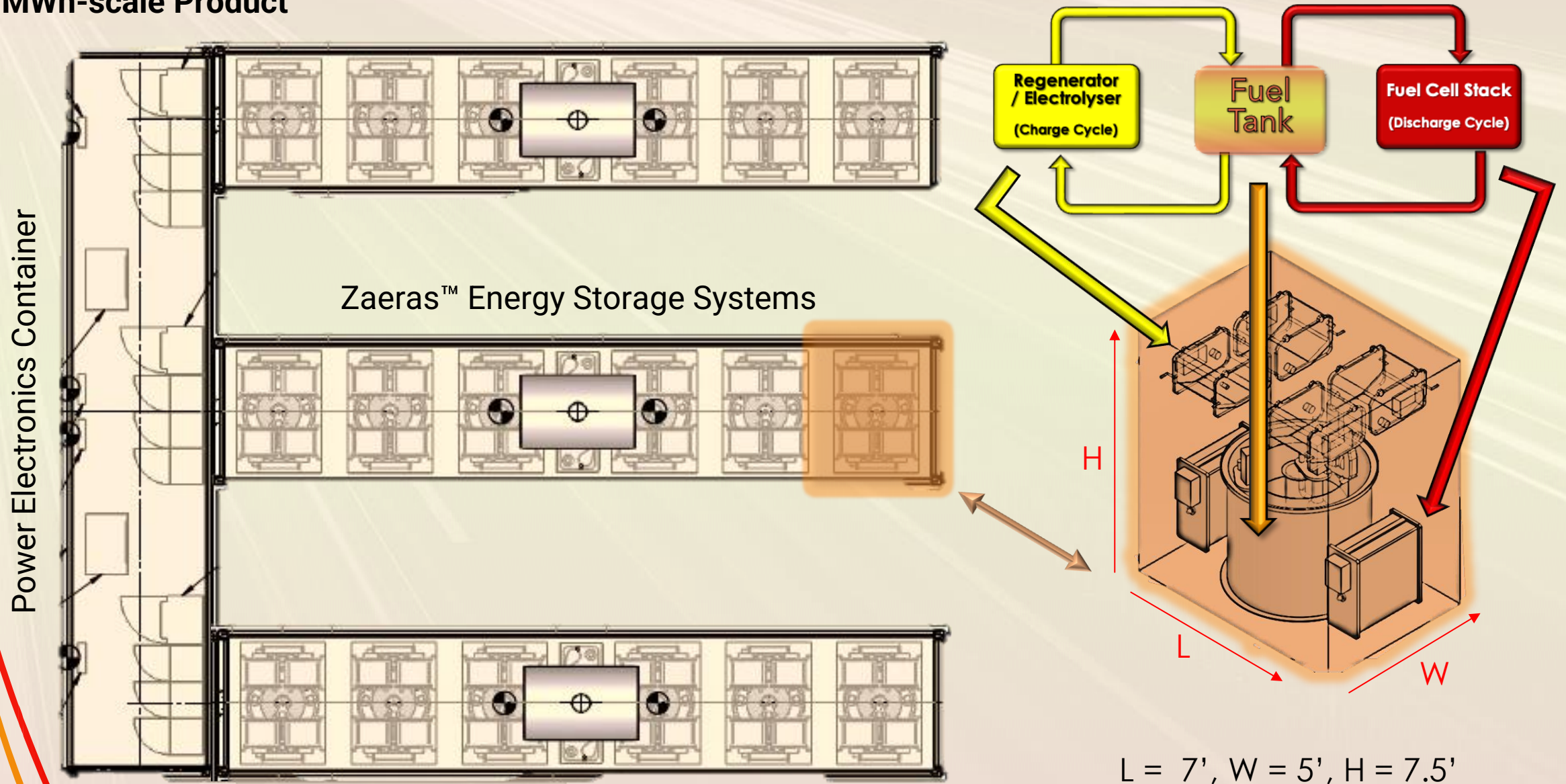


Zaeras™ can charge and discharge at the same time and at different rates, depending on the grid demand or needs of a specific application.

Scaling up the energy capacity of Zaeras™ is as simple as increasing the size of the fuel tank; a cost-effective solution, from kWh to MWh.

THE ZAERAS™ LOW VOLTAGE CONTAINERIZED DESIGN...

MWh-scale Product



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ABOUND's KEY INVENTIONS...

300,000+ Engineering-Hours & Over \$40 Million in Prior Investments

AERAS BLADE™ - Zinc Extraction Technology

- 8 years of development

REZOLVE™ - Advanced Metal Dissolution Technology

- 6 years of development

QUANTUM CHARGE™ - Regen Plating Technology

- 5 years of development; 4th generation

VARA STREAM™ - Energy Harvest Technology

- 2 years of development; 3rd generation

ZAERO TEX™ - Fuel Cell's Air Cathode

- Over 90% cost reduction to-date since 2013

Project Sharkey – Cloud Computing Demo in 2022:
10kW / 80kWh (8-hour duration)

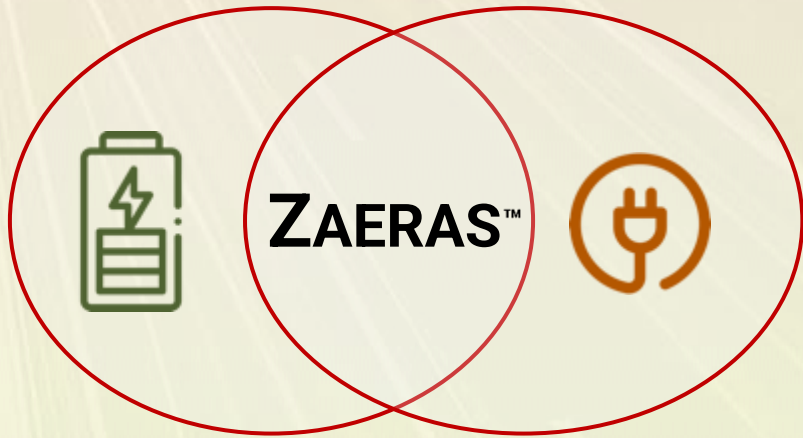


16 PATENTS ISSUED

5 PATENTS PENDING

3 AWARDS RECEIVED

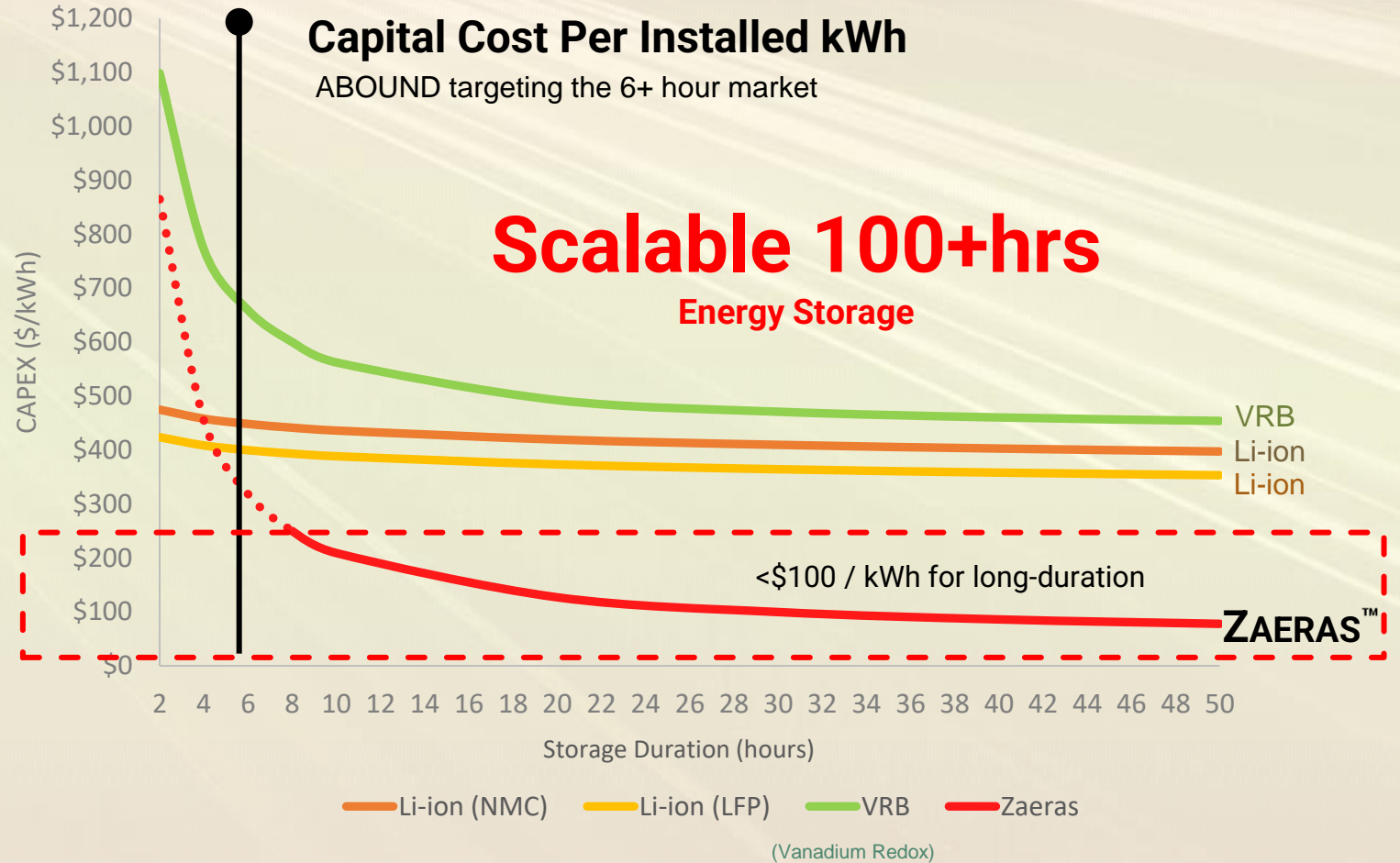
DECOUPLING LOWERS OVERALL COSTS FOR END-USERS...



By decoupling the linkage between power and energy storage, ZAERAS™ is capable of reducing capital costs dramatically for longer-duration applications.

20,000+
Operating Life Hours

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Note: Data as of March 28, 2023.

Source: 1) Wentker M, Greenwood M, Leker J. "A Bottom-Up Approach to Lithium-Ion Battery Cost Modeling with a Focus on Cathode Active Materials". Energies. 2019; 12(3):504. <https://doi.org/10.3390/en12030504>. 2) Christine Minke, Ulrich Kunz, Thomas Turek, "Techno-economic assessment of novel vanadium redox flow batteries with large-area cells", Journal of Power Sources, Volume 361, 2017, Pages 105-114, ISSN 0378-7753, <https://doi.org/10.1016/j.jpowsour.2017.06.066>.

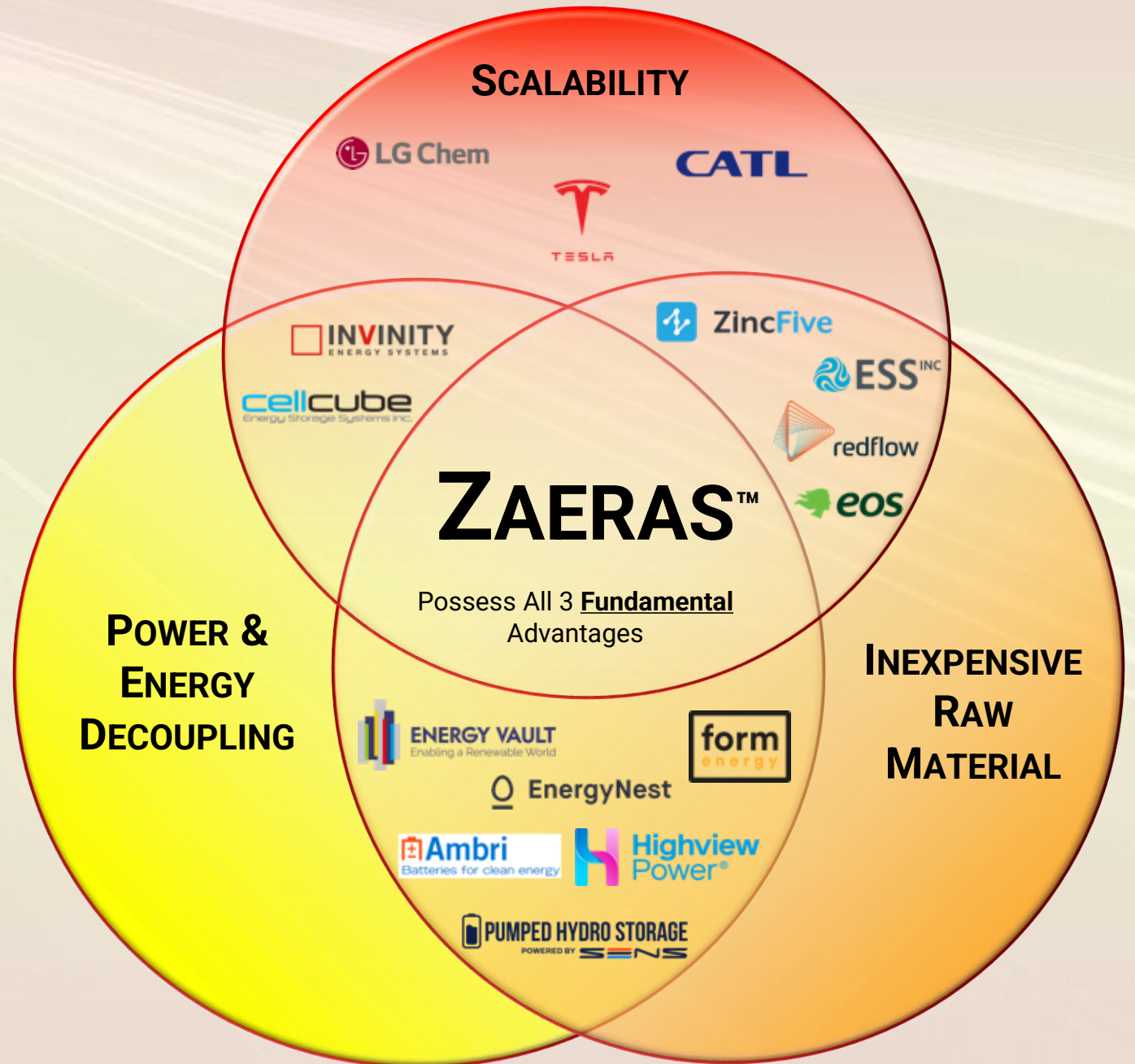
COMPETITIVE LANDSCAPE...

ZAERAS™ possesses ALL 3 fundamental advantages:

- *Power & Energy Decoupling*
- *Inexpensive Raw Materials*
- *Scalability*

Leading to...

- *Unprecedented Flexibility and Cost Efficiency*
- *Greater Flexibility of Cycle Times*
- *Easily Meeting Grid Demand*
- *Being Ideal for Grid Storage, EV Charging, Wind and Solar Farms*



SUPERIORITY OF ZAERAS™ OVER OTHER FLOW BATTERIES...

	Zaeras™	Li-ion	Vanadium Redox Flow Battery	Iron-based Flow Battery	Zinc Iron Redox Flow Battery	Zinc Bromine Flow Battery	Zinc Air Hybrid Flow Battery
Decoupled Power & Energy	✓	✗	✓	✗	✗	✗	✗
Independently Scalable Charge & Discharge Units	✓	✗	✗	✗	✗	✗	✗
Inexpensive & abundant Raw Material	✓	✗	✗	✓	✓	✓	✓
Zero Energy Capacity Fade	✓	✗	✗	✓	✓	✓	✗
Non-Toxic	✓	✗	✗	✓	✓	✗	✓
No Fire Risk	✓	✗	✓	✓	✓	✓	✓
Eco-Friendly	✓	✗	✗	✓	✓	✗	✓
Low Capital Cost @ 8+ hours (250 \$/kWh)	✓	✗	✗	✓	✓	✓	✓
Capital Cost @ Long duration (<100 \$/kWh)	✓	✗	✗	✗	✗	✗	✗
Supply Chain Security	✓	✗	✗	✓	✓	✓	✓
Long Lifetime	✓	✗	✓	✓	✓	✓	✓
Simultaneous Charge and Discharge	✓	✗	✗	✗	✗	✗	✗
0% - 100% State of Charge	✓	✗	✓	✓	✓	✓	✓
Wide Operational temperature range	✓	✗	✓	✓	✓	✓	✓

TECHNOLOGY – ABOUND ENERGY



TECHNOLOGY VIDEO

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INVESTMENT HIGHLIGHTS

Strategically Positioned for Exponential Growth: Building upon a \$40M technology investment, to access the LDES Market, valued in the trillions, with a CAGR of 23%*.

Under new management, **ABOUND has launched** with a strategic corporate shift, emphasizing a go-forward plan with a **disruptive technology**.

An opportunity arises for investors to leverage the groundwork of nearly **\$40 million** in both Facility Upgrades and over **300,000 engineering hours**, to advance our Zaeras™ Energy Storage Technology.

Our **cost-effective** energy storage solution, designed to **tackle grid challenges** during the **shift to electrification**, setting new benchmarks in the industry.

Positioned for **exponential growth** with the unveiling of a **scalable demonstration unit**, set for 12 months from financing, and the projected implementation of **streamlined production** capacity within the following six months.

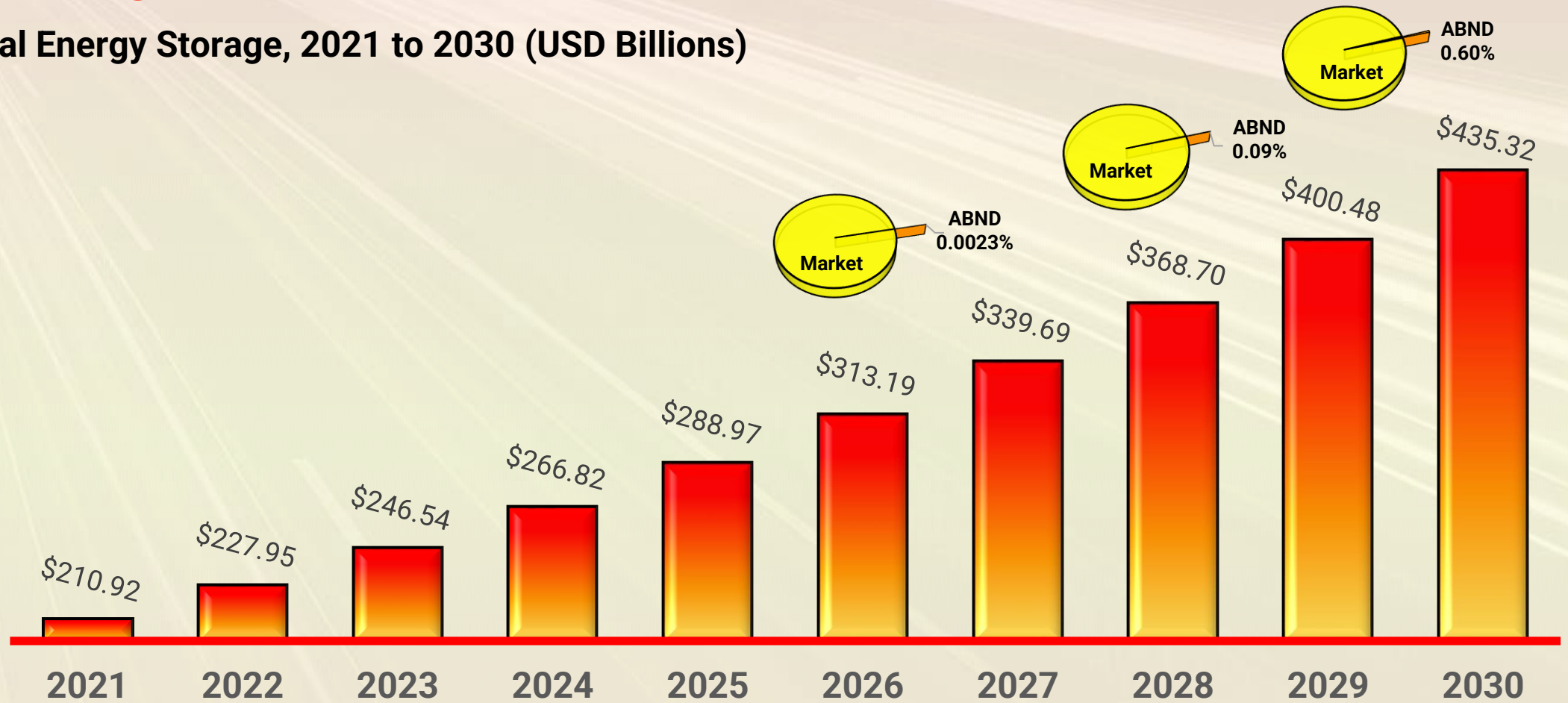
Utilizing our state-of-the-art **Testing and Development services** to enhance the development of **sustainable technological solutions** to propel the world towards a **cleaner and more efficient energy landscape**, with the added benefit of generating **early revenue**.

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* Compounded Annual Growth Rate
Source: Bloomberg NEF - Energy Storage Market Outlook 2023

MARKET SIZE

Global Energy Storage, 2021 to 2030 (USD Billions)



Market Penetration by Zaeras™
Driven by Production Scaling

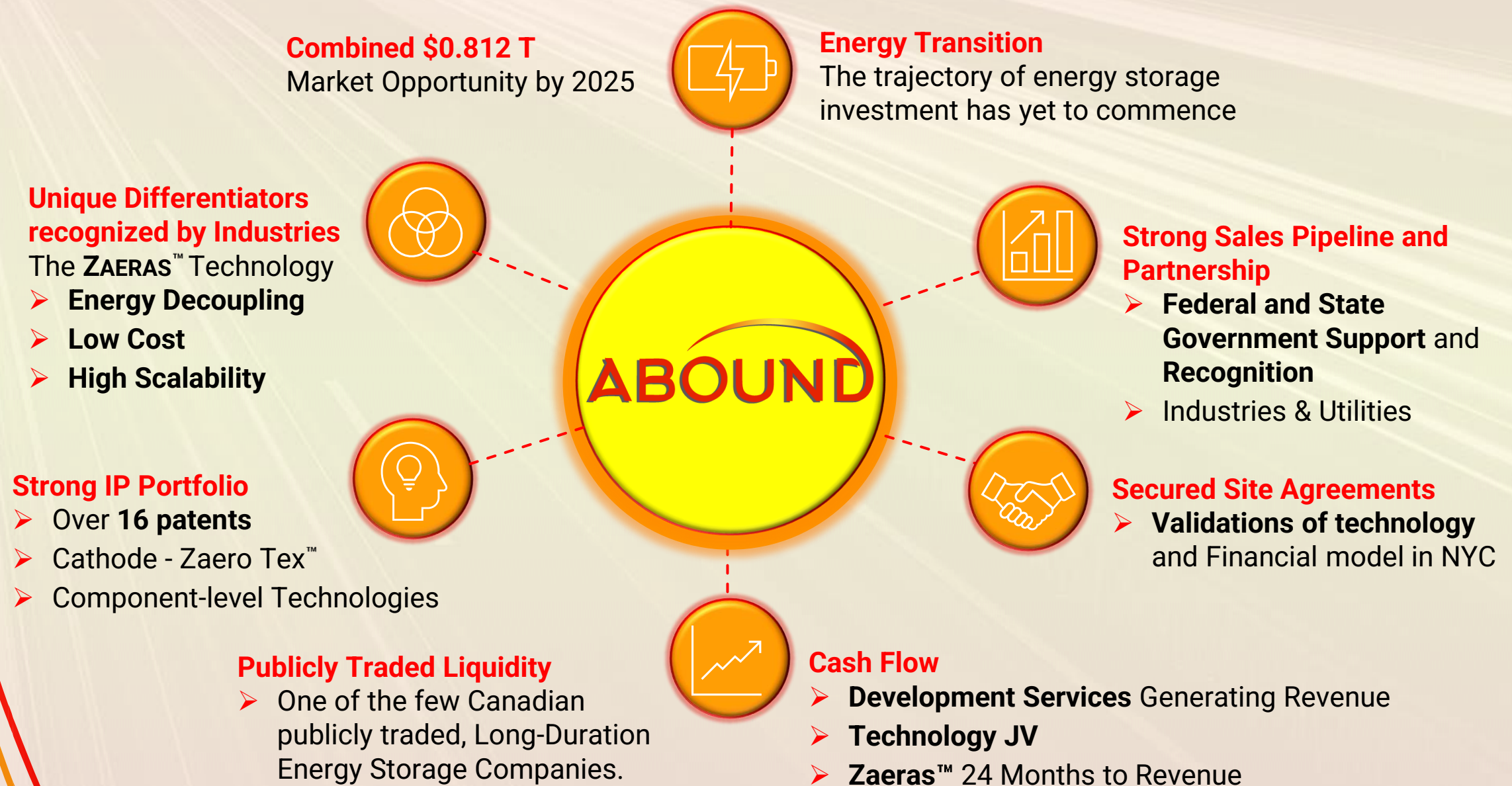
*Revenue projection for 10-hour duration

0.002% = \$ 7.1 MM

0.085% = \$ 313 MM

0.60% = \$ 2.4 B

INVESTMENT RATIONALE



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LEADERSHIP TEAM...

Committed to Maximizing Shareholder Value Under Strong Corporate Governance



Jason Birmingham

Interim CEO and President, Director

- 33+ years of entrepreneurial and consulting experience in private and public company finance, regulatory compliance, and investor relations –British Columbia, Canada



Keith Morlock

COO, Director

- Over 20 years of expertise in fostering positive corporate governance, coupled with a track record of successfully spearheading strategic initiatives alongside industry leaders such as GE, Siemens, and Honeywell. –California, Texas



Swapan Kakumanu, CPA

CFO

- 25+ years' experience in senior finance and operations experience, holding executive roles in both public and private companies. He has expertise in ERP implementations, M&A, and financial management across industries including technology, manufacturing, blockchain, medical device and oilfield services – Alberta, Canada



Dr. Simon Fan, Ph.D, P.Eng

CTO, Director

- 17+ years' experience in R&D, Product Development and Management; **founding Engineer of the ZAERAS Technology**; spearheaded multi-million energy storage projects with utilities and industrial partners. –British Columbia, Canada



Doug MacDonald

Chief Strategy Officer, Zinc8 Energy Solutions USA

- 35+ years' experience Building International Manufacturing, Operations & Bringing Products to Market from the Lab; led Tech Launches for: General Electric, ATS, AMAT, Q-Cells, GT Solar, Dow Corning, Siemens, Samsung, Sovello, REC & Alta Devices –Ontario Canada , Florida

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BOARD OF DIRECTORS...

Committed to Maximizing Shareholder Value Under Strong Corporate Governance



Jason Birmingham



Keith Morlock



Dr. Simon Fan, Ph.D, P.Eng



Chief Roy Jones Jr

- a Haida Hereditary Chief, focuses on supporting growth within the Haida Gwaii Nation and collaborates with the National Chiefs Coalition, First Nations Power Authority, and Major Projects Coalition, focusing on alternative energy, modular reactors, and landfill elimination technologies. – BC, Canada



Mike Simpson

- Former Assistant Deputy Minister of Alberta's DOE; former COO of Canadian Energy Centre; 17+ years of government, community & industry Relations across both private and public sectors. – Alberta, Canada



Robert Schwetzke P.Eng

- 20 years of diverse expertise in engineering, project, and business management. – Dubai UAE.

ADVISORY BOARD...

Offering market growth opportunities and energy market insights



Stacey Weismiller

- former Advanced Manufacturing Lead at the World Economic Forum, bringing expertise in global manufacturing and sustainability initiatives. With deep connections to NY's manufacturing landscape through roles at NY ITAC, SecondMuse, and NYCEDC – NY, USA



Lee Harrison

- 27 years growth-focused business and corporate development with venture such as Creative Concepts, Convergent Thinking -Ontario, Canada



Rob Krell

- extensive project management and construction experience from roles with Teck Resources and Technical Resource Management Inc.. Expert in site assessments, project coordination, and navigating local regulatory requirements during its next stage of growth in the energy sector. – Alberta, Canada

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