REDEFINING LONG-DURATION STORAGE

CORPORATE PRESENTATION
MARCH 2023

CSE: ZAIR – OTC: ZAIRF – FSE: 0E9

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.

- By their nature, forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such factors include, but are not limited to: adverse market conditions; risks regarding protection of proprietary technology; the ability of the Company to complete financings on terms favourable to the Company, or at all; the ability of the Company to develop and market its future product; the ability of the Company to commence manufacturing of its product at a commercial scale; risks related to government regulation; the risk that their competitors may develop a superior product that is more widely accepted by the market; that the Company’s product is not adopted by customers at the rate or the scale projected by the Company; that the Company’s technology will not perform as expected; the risk that the size of the market for the Company’s product may not be as projected; general economic, market and business conditions; increased costs and expenses; and certain other risks detailed from time to time in the Company’s public disclosure documents, copies of which are available on the Company's SEDAR profile at www.sedar.com. Readers are cautioned that the foregoing list is not exhaustive. Readers are further cautioned not to place undue reliance on forward-looking statements as there can be no assurance that the plans, intentions or expectations upon which they are placed will occur. Such information, although considered reasonable by management at the time of preparation, may prove to be incorrect and actual results may differ materially from those anticipated. For more information on the risk, uncertainties and assumptions that could cause anticipated opportunities and actual results to differ materially, please refer to the public filings of the Company which are available on SEDAR at www.sedar.com. Forward-looking statements contained in this presentation are expressly qualified by this cautionary statement and reflect our expectations as of the date hereof, and thus are subject to change thereafter. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

- 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

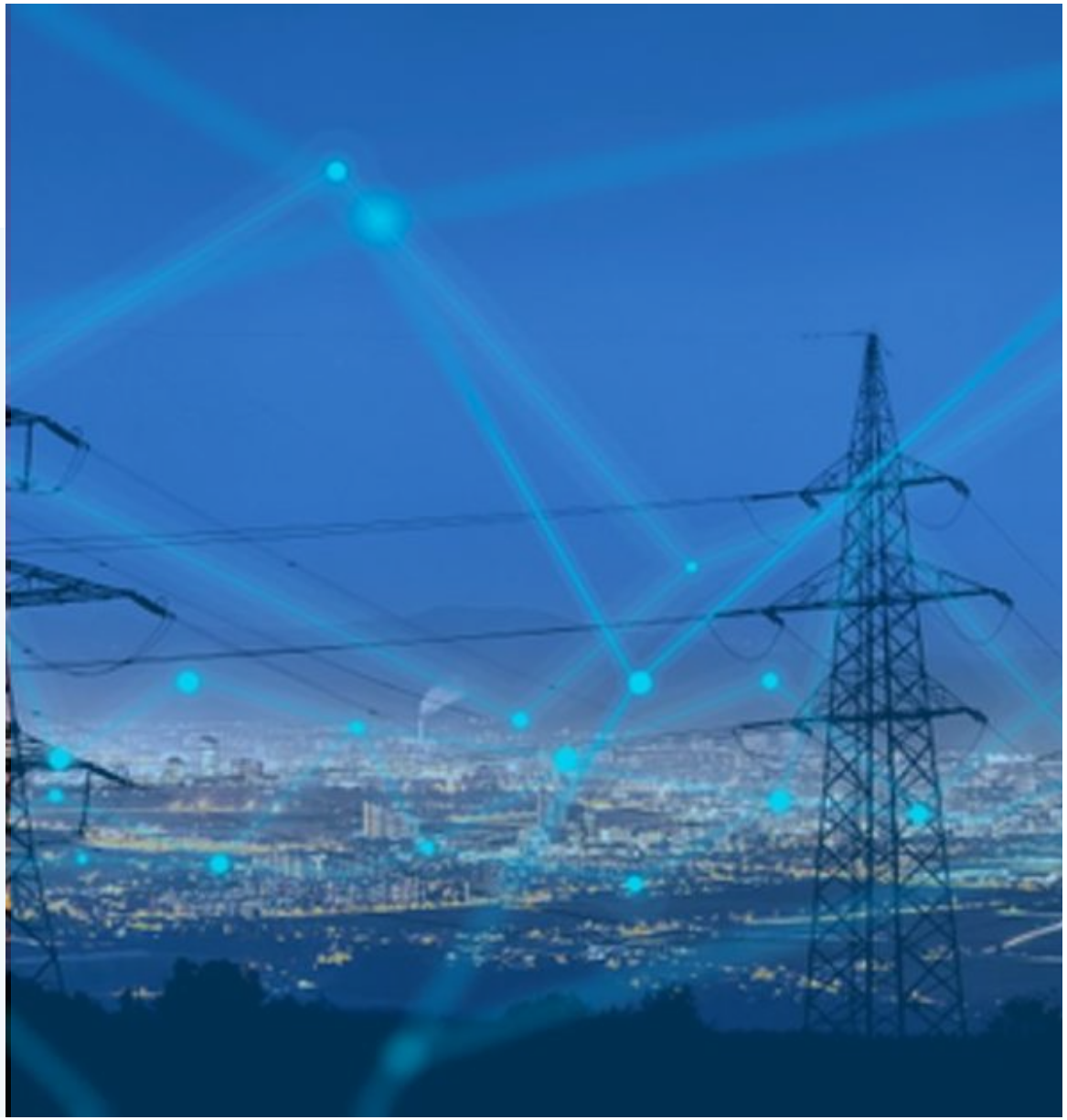
ZINC8 IS A TECHNOLOGY-FIRST LEADER IN THE LONG-TERM ENERGY STORAGE INDUSTRY

Zinc8 Energy Solutions has developed innovative battery technology that uses zinc and air as fuel. Our technology resolves the intermittent and unpredictable nature of renewable energy sources such as wind and solar.

With a cost-effective solution for energy storage, clean energy is made reliable and available as and when required.

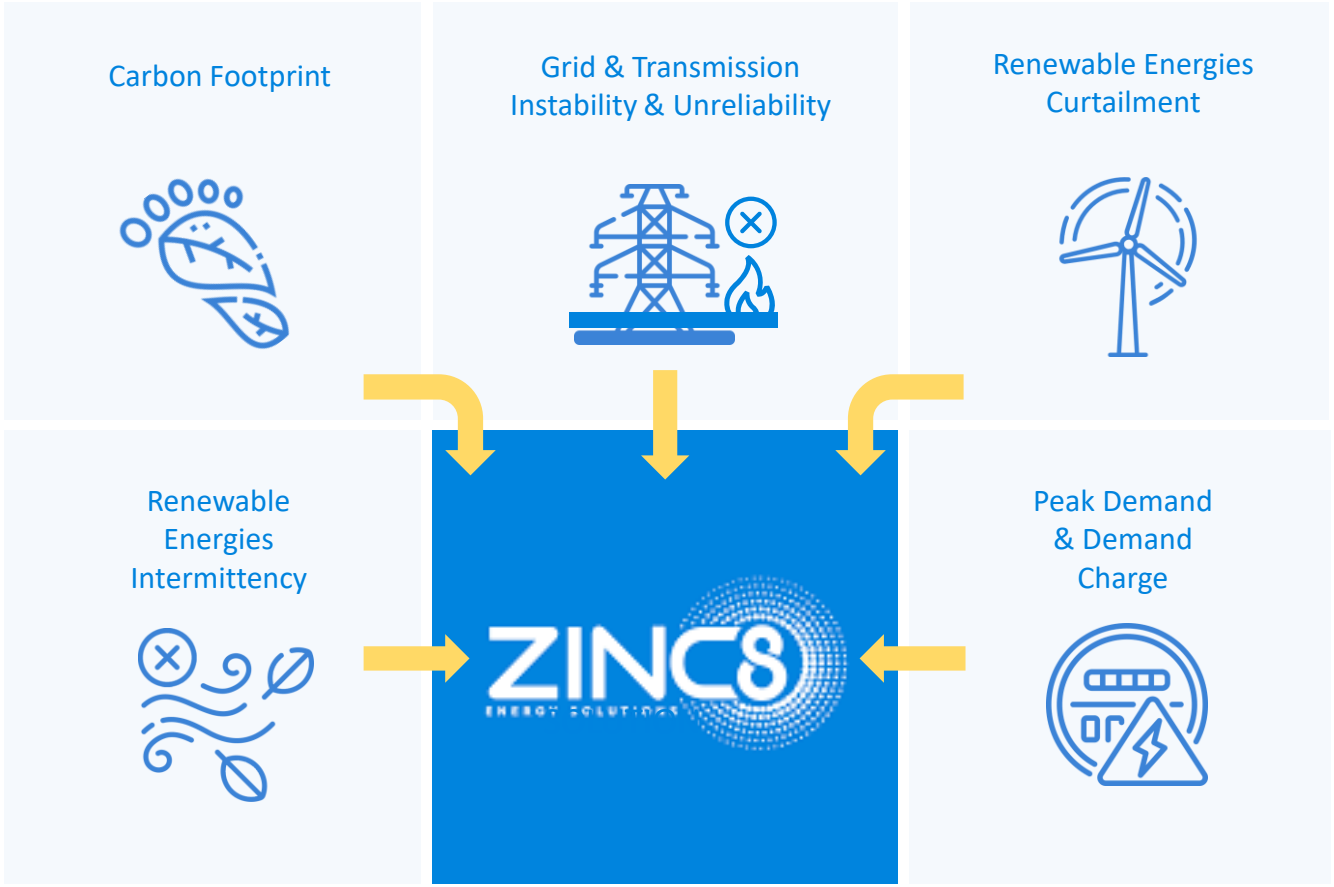
21
PATENTS ISSUED*

5
PATENTS PENDING**



* Includes 12 patents issued by U.S. Patent and Trademark Office
** Includes 1 patent application post December 31, 2021

SOLUTIONS TO ADDRESS INDUSTRY CHALLENGES



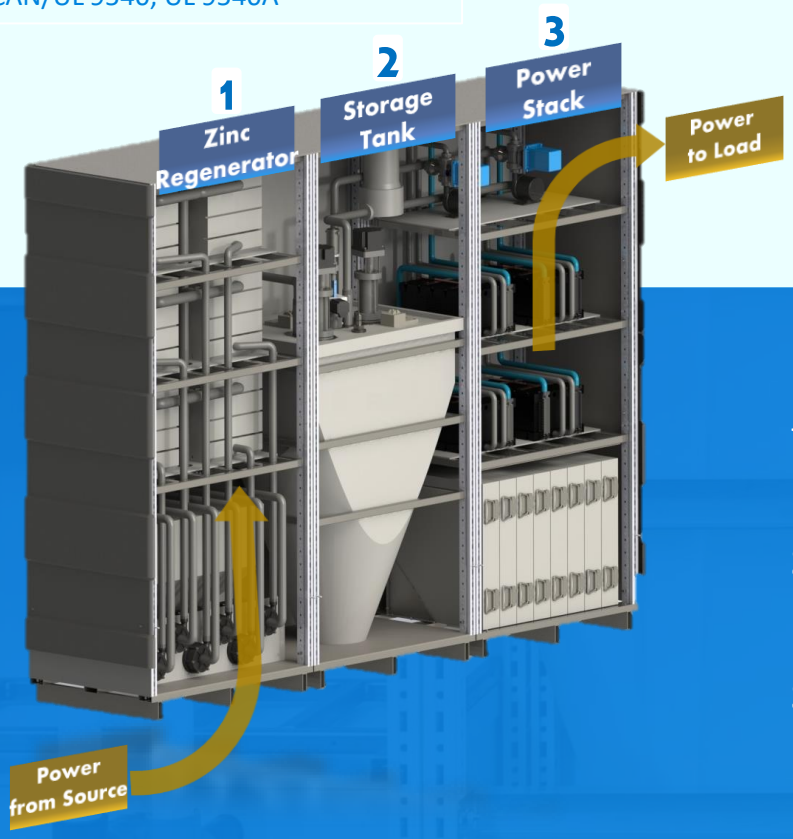
Solutions and Services Provided By Zinc8

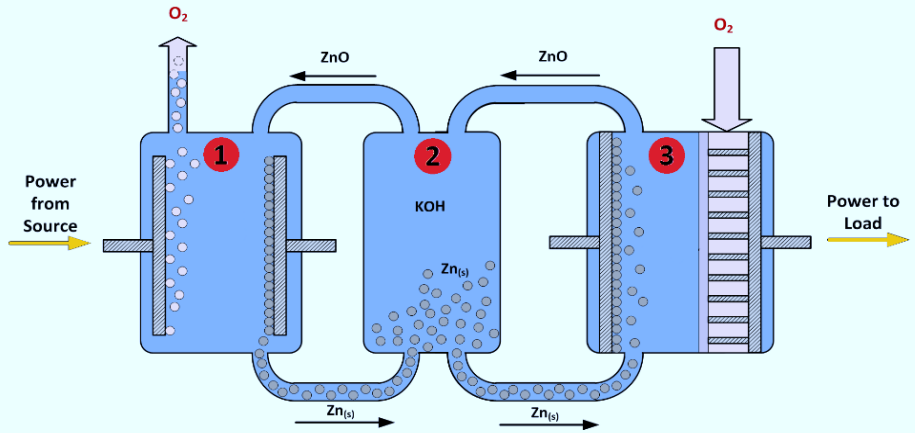
- Peak management, demand reduction
- Demand response
- Bill management
- Backup power
- Energy arbitrage
- Increase Renewable Energy Penetration & make them dispatchable
- Spin/non-spin reserve
- Frequency regulation
- Voltage support
- Distribution & Transmission deferral
- RE curtailment avoidance

HOW OUR TECHNOLOGY WORKS

21 US patents issued* – 5 pending**

Designed to meet ANSI/CAN/UL 1973, ANSI/CAN/UL 9540, UL 9540A





1. Power from the grid or renewable source is used to generate zinc particles in the **Zinc Regenerator**. Oxygen is released to the atmosphere as a by-product.

2. The zinc particles are flowed to the **Storage Tank** and maintained in potassium hydroxide (KOH) electrolyte until required.

3. Whenever power is needed, the zinc particles are delivered to the **Power Stack,** recombining them with oxygen to generate electricity. The zinc oxide (ZnO) by-product is returned to the storage tank for later regeneration.

* Includes 12 patents issued by U.S. Patent and Trademark Office
** Includes 1 patent application post December 31, 2021

WHY OUR TECHNOLOGY IS SUPERIOR

20,000
Operating life hours

Scalable 100+hrs
Energy storage

DURABLE

Zero capacity fade over extensive lifetime

ROBUST

Full discharge cycles. Same performance

SAFE

Non-flammable and non-toxic

LOW COST

Longer duration requirements, lower cost per kWh

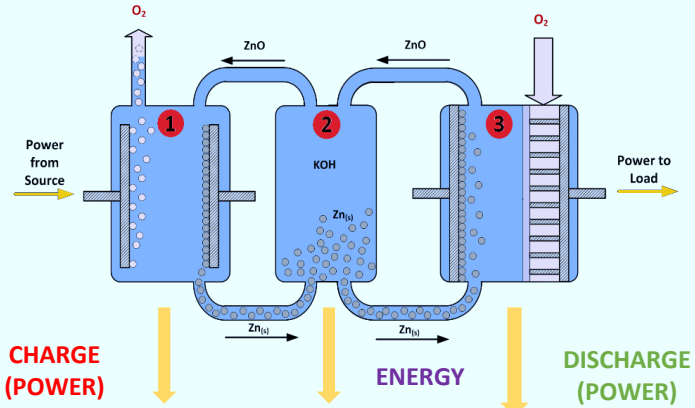
SCALABLE

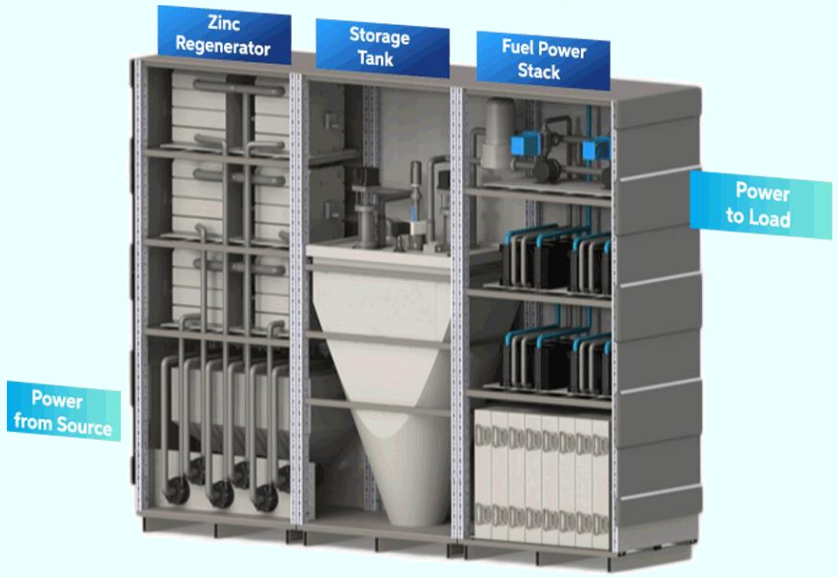
Energy capacity easily extended by adding larger fuel tank

SUSTAINABLE

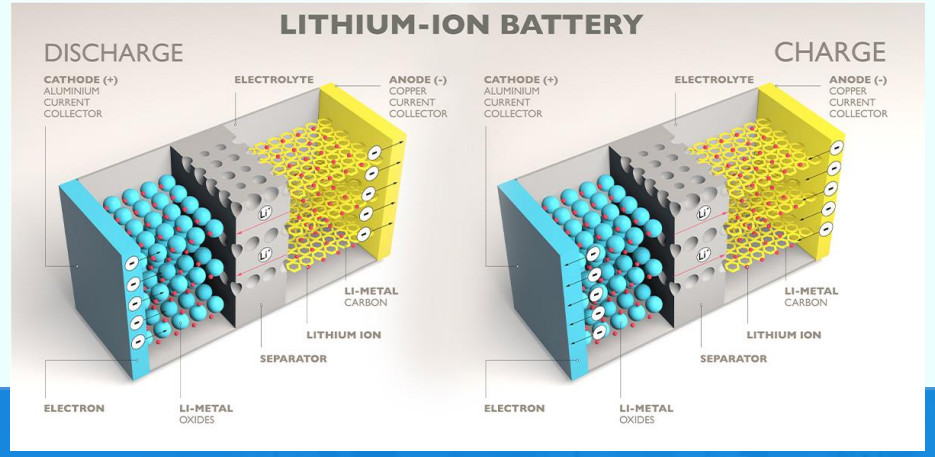
Stable supply chains for mass manufacturing

OUR TECH ENABLES DECOUPLING OF ENERGY AND POWER





Lithium Ion Power & Energy Are Coupled

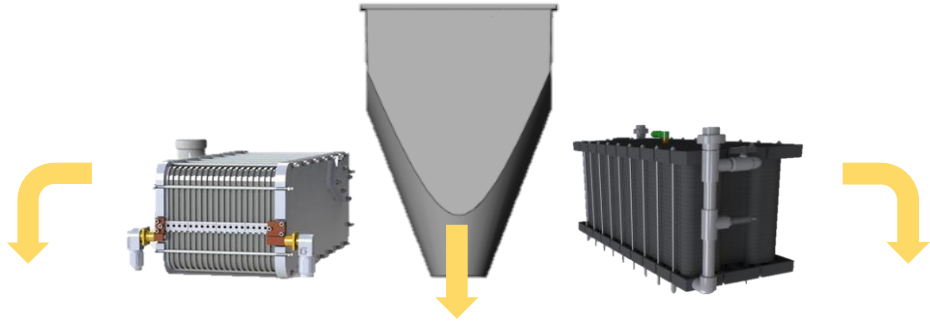


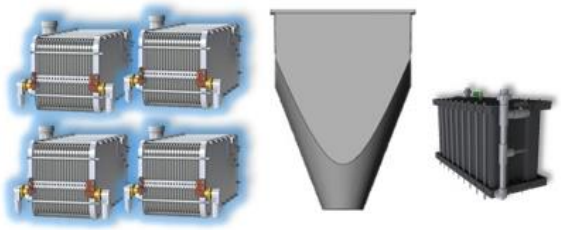
Unlike lithium-ion technology, which requires new stacks in order to scale, Zinc8 has completely decoupled the linkage between energy and power. This means that scaling Zinc8's technology can be accomplished by simply increasing the size of the fuel tank and quantity of recharged zinc fuel.

Other technologies like Metal-based hybrid/flow batteries and Li-ion are coupled.

DECOUPLING DRIVES SCALABILITY

Zinc8 battery can be scalable
and customizable for different
applications with various power/energy
requirements
from 5 kW to MW-scale





High Charge Power

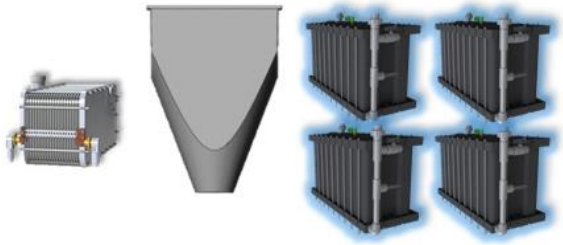
More Charge Power (kW)
Capture more clean energy
(wind & solar) for faster charging

Application: Solar-PV + Storage

Longer Discharge Duration

More Energy (kWh)
Provide energy for 6+ - 96+ Hours

Application: Off-grid areas, 100% Renewable Energies integrated grids, Microgrids



High Discharge Power

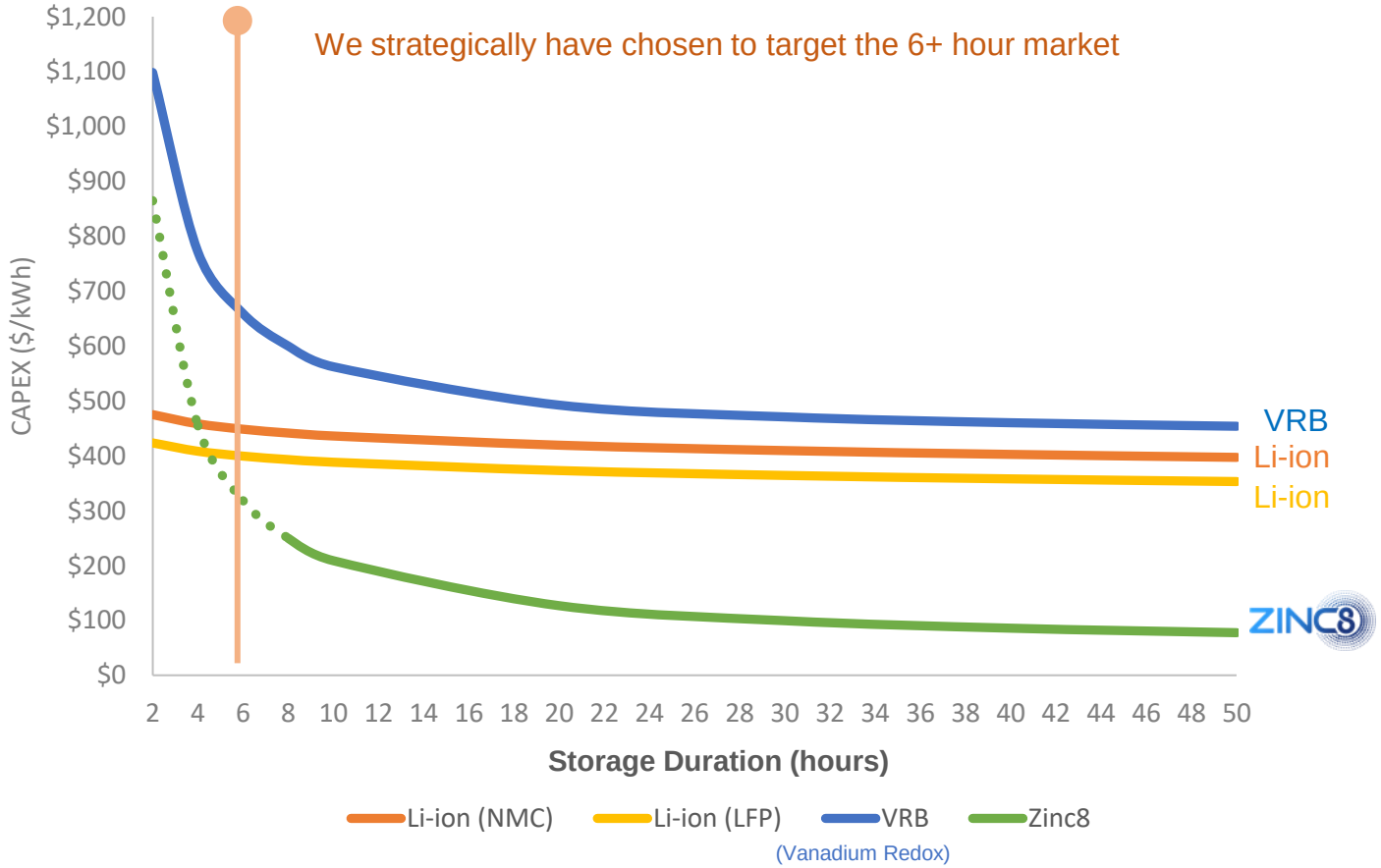
More Discharge Power (kW)
Provide more power & cover higher load demands (e.g., large buildings' load demand)

Application: Utilities, Industrial

DECOUPLING DRIVES SCALABILITY

Comparison of different technologies for a 100 kW battery system

By decoupling the linkage between power and energy, and using low-cost, abundant materials, our system is capable of reducing its capital cost dramatically for longer-duration applications.



References:
[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.

MARKET VALIDATION OF ZINC8'S TECHNOLOGY

Winner of NYC DOB's 2020 Innovation Challenge

New York City Department of Building regulates more than 1M buildings

Only storage solution in the winning group

- Government support
- Speed up permitting process
- Increase energy efficiency score

Winner of Real Estate Board of NY 2022 PropTech Challenge

REBNY is New York City's leading real estate trade association

Selected as a best-in-class solution for the energy storage category

- REBNY, the leading real estate trade association in NYC
- Increase Zinc8's brand visibility across the target markets
- Promote awareness of an upcoming energy solution to comply with the government mandate (Local Law 97)

Accepted into Accelerator Third Derivative

Finds, funds, hones, and scales the most promising energy technologies globally

- Pool of investors with over $800M of committed capital
- Global corporate partners with over $3T of market cap

Accepted into Accelerator for ClimateTech

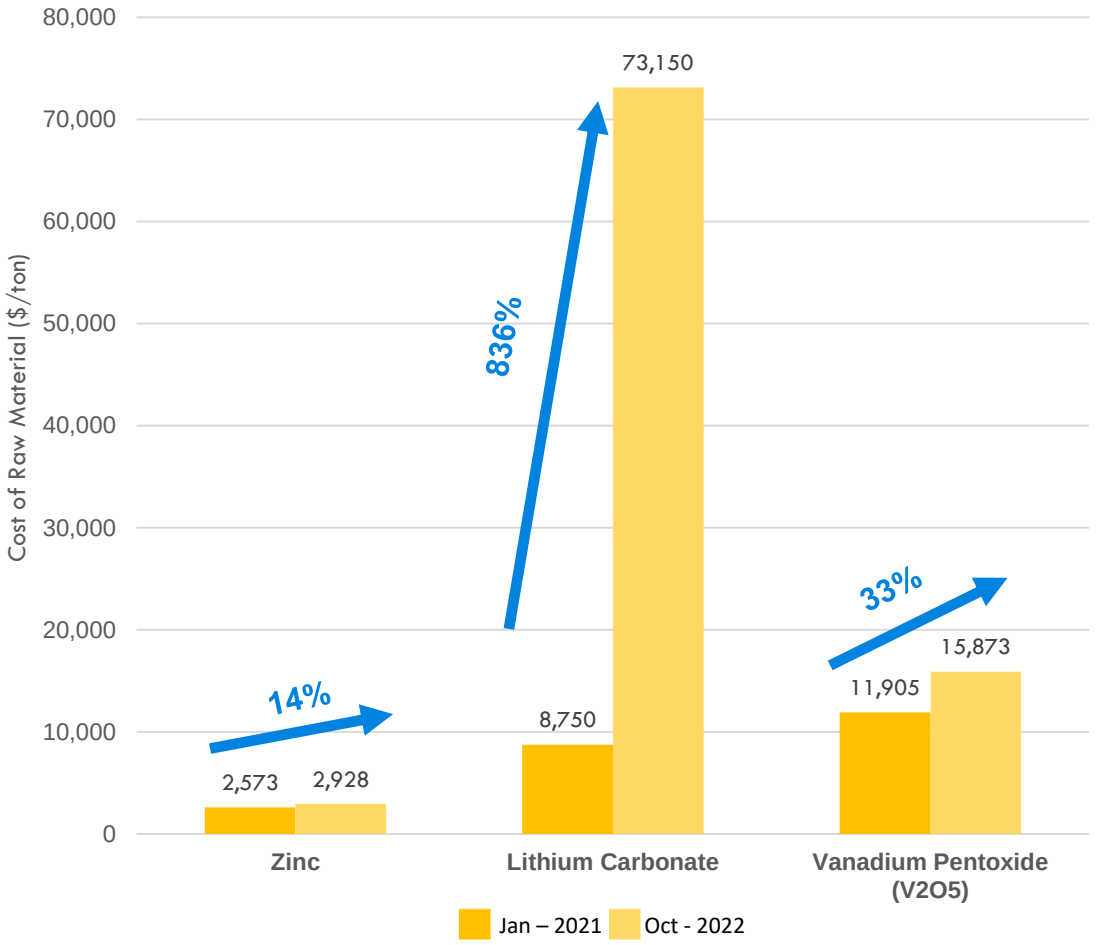
De-risking critical decisions throughout our manufacturing scale-up process

For ClimateTech will support Zinc8 with:

- Early design for manufacturing
- Refining a prototype
- Negotiating partner and supplier agreements
- Logistics and sourcing management

Secured Supply Chain with Abundant Raw Materials

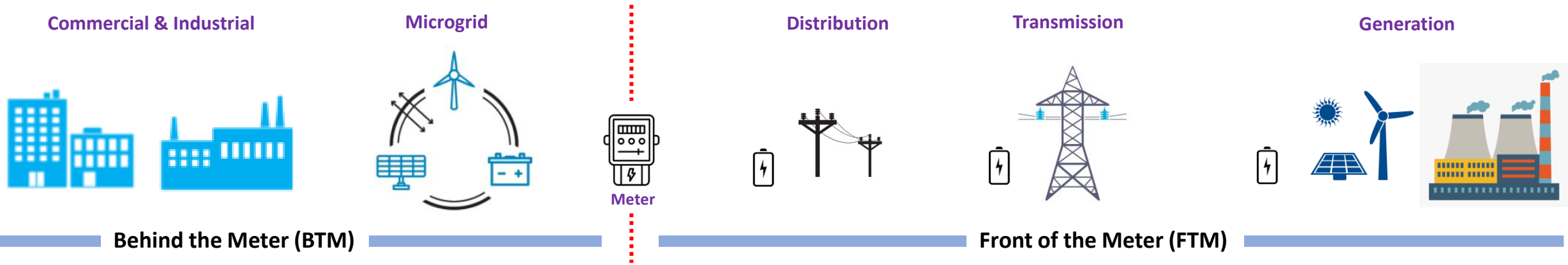
Zinc costs remain reasonable versus industry comparatives



Zinc Oxide

Zinc Metal

A LARGE AND GROWING ADDRESSABLE MARKET (By 2027)



$337 Billion + **$475 Billion**

Guidehouse Insights, 'Market Data: Utility-Scale Energy Storage Market Update', 3Q 2020; Guidehouse Insights, 'Market Data: Energy Storage for Microgrids and Remote Power Systems', 2Q 2020; And Navigant Research, 'Distributed Energy Storage Overview', 4Q 2019.

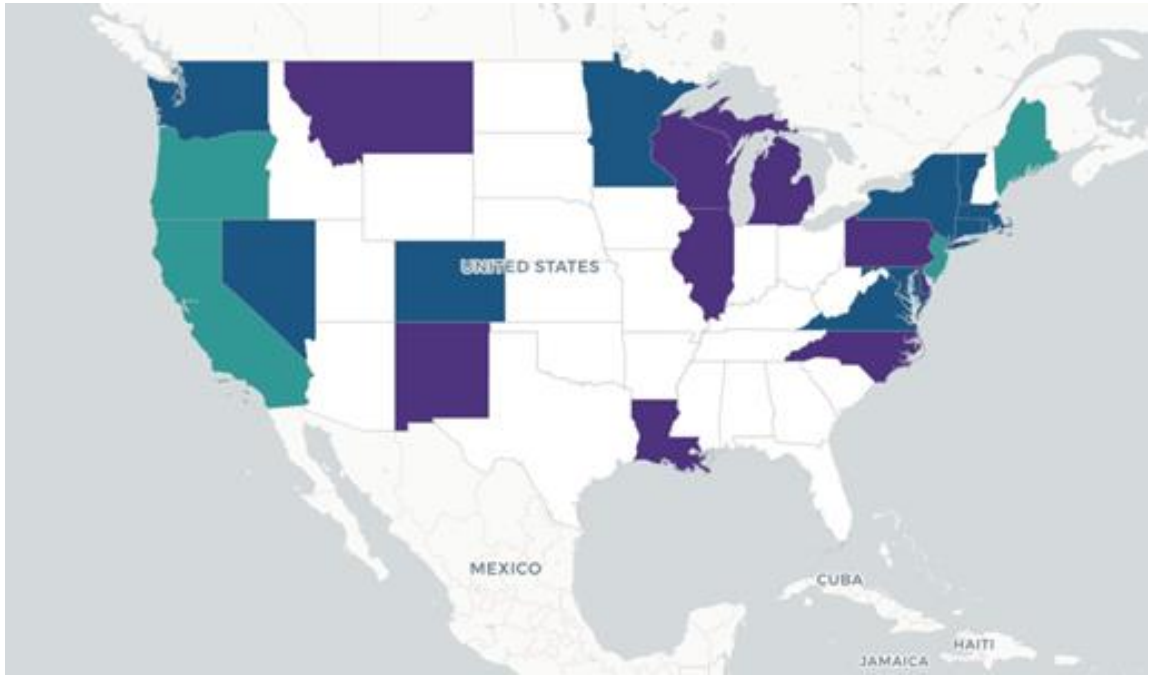
GOVERNMENT REGULATION IS DRIVING ADOPTION

State	GHG Emission Reduction	Timeline
Washington	95% (of 1990 levels)	2050
Oregon	80% (of 1990 levels)	2050
California	80% (net-zero by 2045)	2050
Nevada	Net-zero	2050
Montana	Net-zero	2045-2050
Colorado	90% (of 2005 levels)	2050
New Mexico	45% (of 2005 levels)	2030
Minnesota	80% (of 2005 levels)	2050
Louisiana	40-50% (of 2005 levels) and net-zero by 2050	2030
Michigan	26-28% (of 2005 levels) and net zero by 2050	2025
North Carolina	40% (of 2005 levels)	2025
Virginia	Net-zero	2045
Maryland	40% (of 2006 levels)	2030
Delaware	30% (0f 2008 levels)	2030
New Jersey	80% (of 2006 levels)	2050
New York	85% (of 1990 levels) and net-zero	2050
Connecticut	80% (of 2001 levels)	2050
Rhode Island	80% (of 1990 levels)	2050
Massachusetts	85% (of 1990 levels) and net-zero	2050
Vermont	80% (of 1990 levels)	2050
New Hampshire	80% (of 1990 levels)	2050
Maine	80% (of 1990 levels)	2050
Hawaii	Net-zero	2050
District of Columbia	80% (of 2006 levels) and net-zero	2050
Wisconsin	26–28% (of 2005 levels)	2025
Illinois	26–28% (of 2005 levels)	2025

CO_2e Emissions

Carbon Sequestration

25 states and the District of Columbia have GHG targets



Source: Center for Climate and Energy Solutions (C2ES)

ZINC8'S BUSINESS MODEL & STRATEGY

BUSINESS STRATEGY

Collaboration and partnership with large project developers

BUSINESS MODEL

I. Channel Sales Through Partnerships

II. Build-Own-Operate

PARTNERS & COLLABORATORS

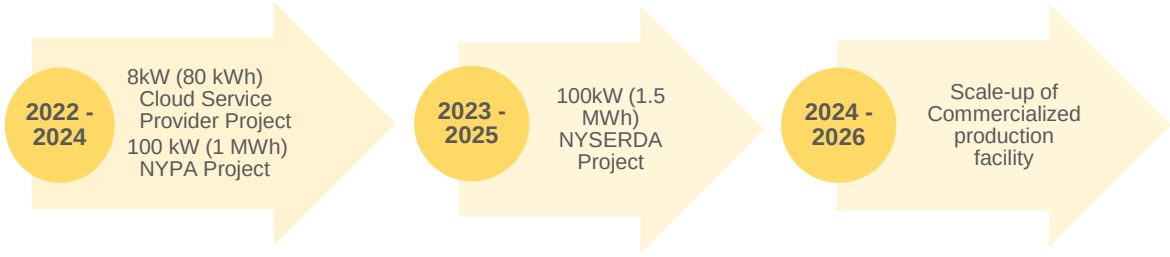
DIGITAL ENERGY CORP

URBAN FUTURE LAB

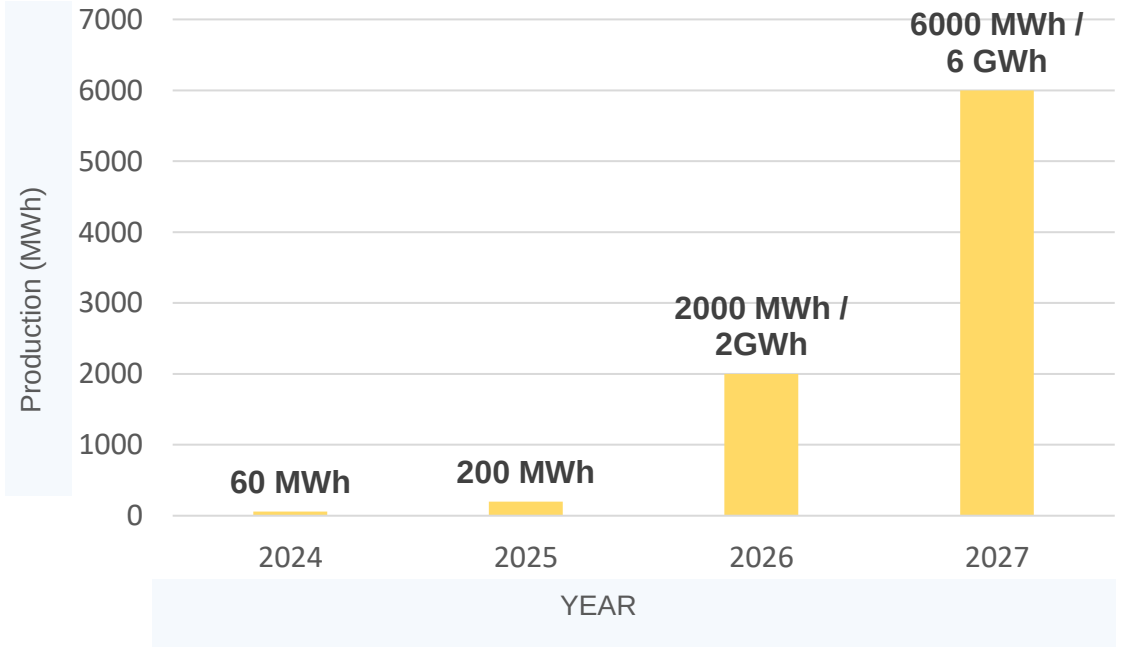
NEW YORK STATE OF OPPORTUNITY. NYSERDA

NEW YORK STATE OF OPPORTUNITY. NY Power Authority

Before Commercializing (Demonstrations)



Target Production After Commercialization



NUMEROUS DEMONSTRATION PROJECTS UNDERWAY

Data Centers Demo with Global Cloud Provider

STAGE: COMPLETED

10kW / 80kWh (8-hr duration)

- $200,000 contract signed
- 11 month project
- Testing for resilient backup application
- Testing combination of UPS and Zinc8's zinc-air system

See Press Release

Queens, NYC

STAGE: ENG. DESIGN

100kW / 1.5MWh (15-hr duration)

- DE operates 100+ CHP sites for future pipeline in New York and California
- Recognized developer within the industry
- Partners and Collaborators:

DIGITAL ENERGY CORP

NEW YORK STATE OF OPPORTUNITY. | NYSERDA

See Press Release

Univ. at Buffalo (UB), NY

STAGE: ENG. DESIGN

100kW / 1MWh (10-hr duration)

- Winner of NYPA's Innovation Challenge
- Largest state public utility in the US
- Leads the state in accelerating new technologies
- Access to an exclusive network
- Collaborators:

URBAN FUTURE LAB

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority

See Press Release

EXPANSION OF MANUFACTURING CAPACITY UNDERWAY

Consulting Firms Engaged for Commercial Development Plan

Ramboll Engineering
Site reviews, permits/approvals, code review, critical issues analysis, Site selection report. 3 sites under analysis.

Deloitte
Federal and State tax incentives, research & development tax credits, sales and use tax benefits, property tax reductions, cash grants, training benefits, infrastructure incentives etc.

ROADMAP

	2023	2024	2025	2026	2027	2028	2029	2030
Application	Behind-The-Meter		Front of the Meter Distributed Renewables					
Markets	• C&I • Building	• C&I • Building	• Microgrids	• Utilities	• Global	• Global	• Global	• Global
Projects	Demo: NYPA / University of Buffalo	Demo: Fresh Meadows (NYSERDA) + more	Large Industrial Companies	*To be announced*	*To be announced*	*To be announced*	*To be announced*	*To be announced*
Corporate Milestone		• Revenue • Initial Production	• Production Scale-up					

EXPERIENCED MANAGEMENT TEAM

Ron MacDonald
CEO

Over 35 years of both public and private sector experience, ranging from significant roles within the Parliament of Canada to president & CEO and serving on the boards of numerous publicly listed resource companies.

Dr. Simon Fan Ph.D, P.Eng
CTO, VP of Product Management

Zinc8's Founding Engineer; PhD in Chemical Engineering & M.Eng., specialized in Engineering Management; over 17 years' experience in R&D specializing in electrochemistry, fuel cells, and batteries; Authored approximately 15 peer-reviewed publications and over 10 patents and patent applications.

Sorin Spinu
CFO

Over 19 years' experience in financial accounting, analysis and reporting, & financial analytics and controls. Accounting Manager at Fabricana Imports Ltd. Assistant Controller at C&C Packing Group of Companies Accountant at Ace Style Group.

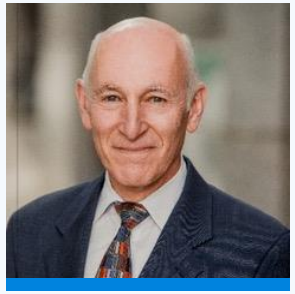
Mark Baggio
VP of Business Development

Over 20 years' experience working globally and building new markets for companies in the renewable energy, energy storage and energy minerals sectors. VP at NRStor Remotes Communities & Mines Inc., Director, Global Markets & Business Development at American Vanadium Corp., Board Member & Market Development at Critical Elements Lithium Corp.

Tristan Sloan
VP of Engineering

Zinc8's Founding Engineer; over 15 years' experience in Product Design & Development Mechanical Engineer at IMW Industries, Fuelling Research Engineer at Angstrom Power Inc., Mechanical Designer at Greenlight Power Technologies Inc.

CORPORATION STRENGTHENED BY NEW BOARD MEMBERS



Bernard Pinsky Q.C.

Chair of the board and a founding director of one of British Columbia's largest philanthropic foundations by assets. Senior partner and co-head of the Corporate Finance and Securities group at the law firm of Clark Wilson LLP. Practiced law for over 34 years and has advised a variety of public and private companies and securities brokerage firms on legal matters related to acquisitions, mergers, takeovers, initial public offerings, financings, cross-border transactions, public and private company regulatory compliance and stock exchange practice.

- Chair of the board and a founding director at Ronald S. Roadburg Foundation
- senior partner and co-head of the Corporate Finance and Securities group at Clark Wilson LLP
- Advisor at various public and private companies and securities brokerage firms on legal matters related to acquisitions, mergers, takeovers, initial public offerings, financings, cross-border transactions, public and private company regulatory compliance and stock exchange practice
- Leader and member of charitable and not for profit organizations since 1981
- Best Lawyers in Canada recognition as Best Lawyer for Securities Law annually 2014 to 2021, inclusive.
- Appointment as British Columbia Queen's Counsel (Q.C. designation) in recognition of exceptional merit and contribution to the legal profession 2014.
- Queen Elizabeth II Diamond Jubilee Medal in recognition of long community service 2012

Storm Boswick

An experienced Founder, Partner, Portfolio Manager(PM), and Sr Managing Director(MD) in Asset Mgt & Inv Banking. Also a Venture Capitalist, Long/Short PM, and skilled Investor and Advisor in Public & Private Equity and Public & Private Debt. As a Strategic Advisor he works on mandates including Governance & Corporate Advisory, Mergers & Acquisitions, Public-Private Partnerships, Capital Formation & Introduction, and Commercial Introductions. He's a strong business development professional with extensive experience as an investment/industry conference presenter, panelist, media contributor, and lecturer.

- Inv Research Goldman Sachs
- Partner/PM J&W Seligman
- PM Sigma Capital (SAC)
- Founder/PM Brompton Cross
- Partner/SrMD Brock Capital (MD Medley; MD Brightwood; SrAdv MC Credit)
- Founder/MD TRE Advisors
- VC Investor: Stamps.com; Howstuffworks.com; Inktomi; iVillage; Interwoven; Capstone; ONI Systems; iBiquity; TruSecure; USTowerCo; AutoWeb; ThinkBurger
- Debt Investor: WheelsUp; IRDM; Aderant; BeyondTrust; DDC; HooverContainer; BattleFin; DryIce; AmApp; Shea
- StrAdvisor/InvBanker: USARareEarth; EVR Motors; blueflite; Amrita; Chakratec; Ramon.Space; CST/GuardianSpace; Moonscape; LithiumAmericas; GreatPoint; GRI/PureFonte; Dundee/Redecam; Sherbet; KOD; HeartPoint; Geenee; EGG; CBGB

AS OF FEBRUARY 28, 2022

Shares outstanding	**179,094,151**
Warrants outstanding	14,145,200 @ $0.30
Options outstanding	200,000 @ $0.20 2,571,929 @ $0.21 1,000,000 @ $0.22 2,188,885 @ $0.32 6,115,000 @ $0.62
Restricted share units	7,744,166
Deferred share units	1,002,904
Fully diluted	205,315,165
Market capitalization	$28,655,000 (at $0.16)
Tickers	CSE: ZAIR, OTC: ZAIRF, FSE: 0E9

THANK YOU

Contact

Eric Negraeff | Darren Seed

Incite Capital Markets
T 604-493-2004
investors@zinc8energy.com

Zinc8energy.com

CSE: ZAIR – OTC: ZAIRF – FSE: 0E9