



e-Zinc

Long-Duration Energy Storage

Company Snapshot

Based in **Toronto, Canada**

Founded in 2012

80+ FTEs

Raised **>\$35M in private financing**

Awarded **\$8M in grants**

7 patent families with international coverage

First in-field deployment Q3 2022

2 projects secured for 2024 - 2025



James Larsen – CEO

15+ years of leadership in fuel cells, BD and consulting
Bain & Company, AMEC, MaRS Discovery District



Rhonda Landers – CFO

20+ years finance experience with multiple CFO roles
PwC, Globe Wireless, Wartsila, NanoSteel, Hedron



Balki Iyer – CCO & Executive Lead (US Expansion)

20+ years commercial leader in clean-tech and energy storage
General Electric, Enel Green Power, EOS



Rob Howard – COO

20+ years in automotive and solar operations leadership
General Motors, Chrysler, Enphase Energy



Zaki Kabir – CTO

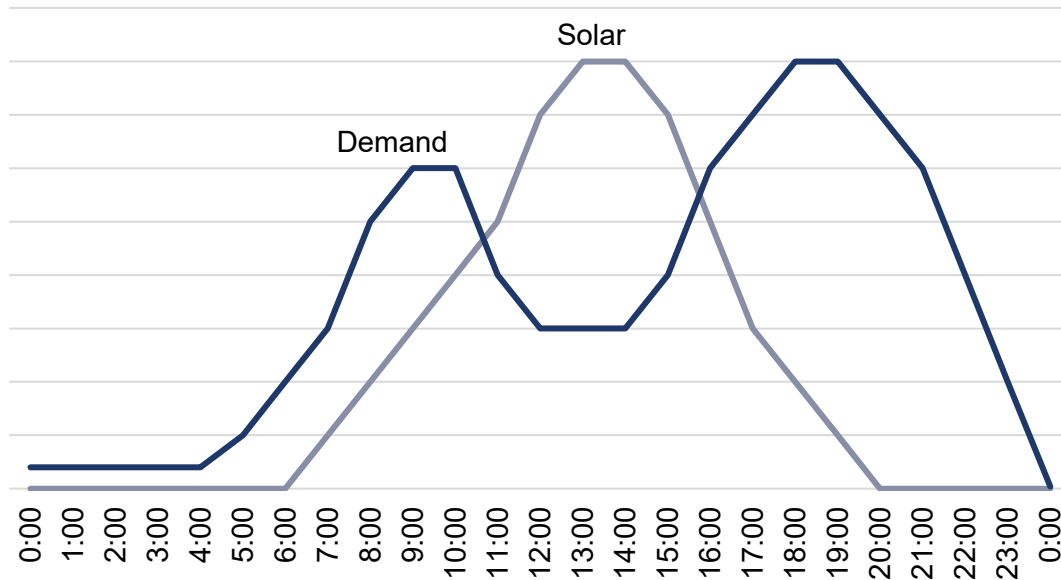
20+ years scaling fuel cell and solar companies as a CTO
United Technologies, ClearEdge Power, Apeel



Laura Strickler - VP People & Culture

20+ years leading HR within multi-national organizations
Maple Leaf Foods, ADP

The Challenge: Scarcity and Curtailment



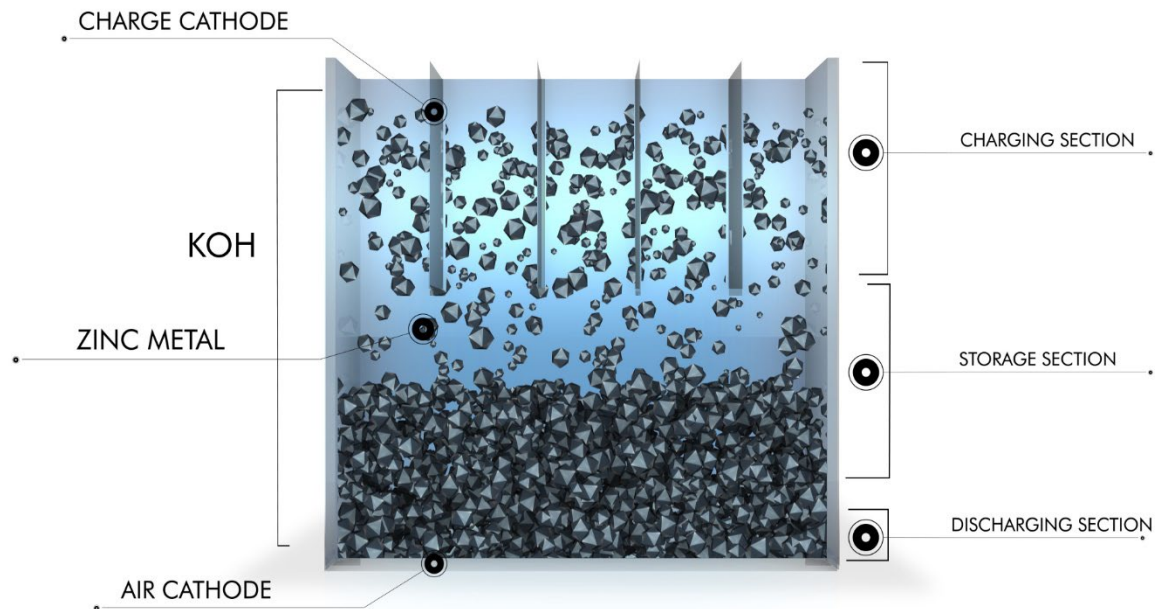
- Curtailment remains a major challenge for renewables – energy is wasted
- In 2020, ERCOT curtailed 4.9 TWh of wind and solar generation - equivalent to powering ~340k homes for 1 year
- In California in 2022, CAISO curtailed 1.9 TWh of solar generation, which is equivalent to powering 200k homes for a year
- SPP curtailed 7% of wind generation in 2022
- As more renewables deployed, challenge would become more severe if storage not deployed

The Solution: LDES



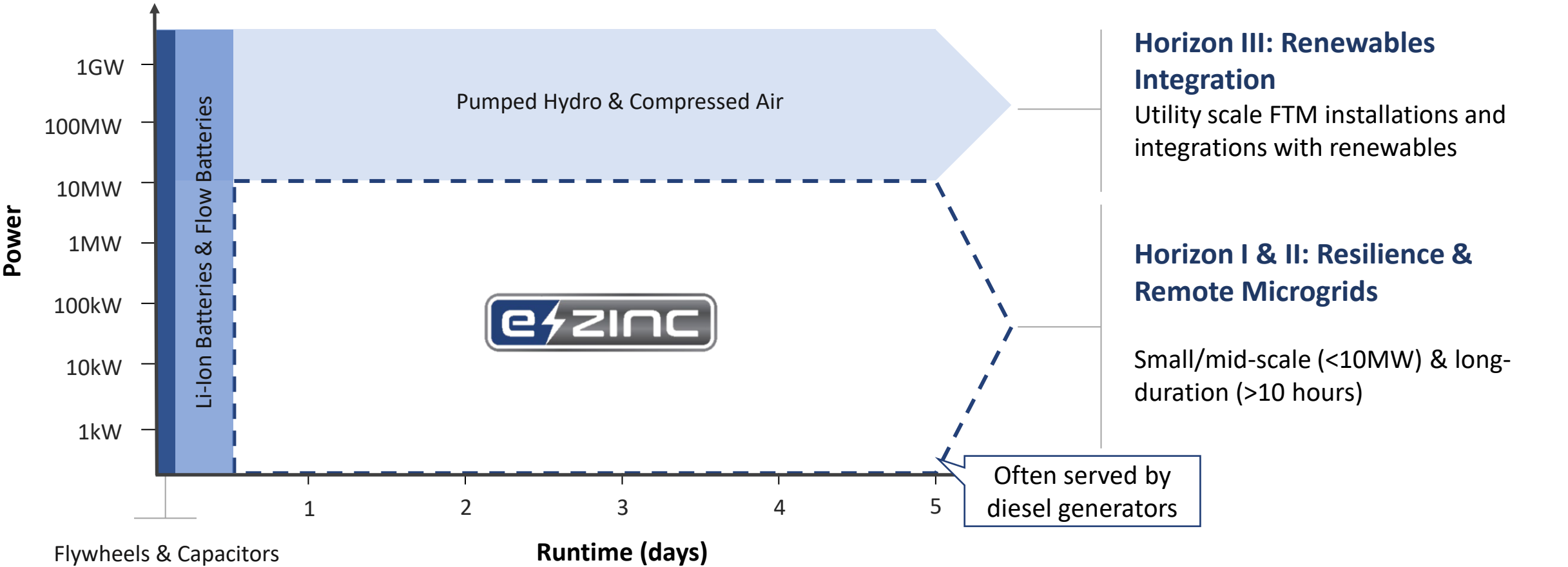
Our Technology

Zinc as an “energy carrier”



- 1** Electrochemical cell with zinc-air chemistry
- 2** Stores energy through the creation of zinc as a metal
- 3** Low capital cost by decoupling energy capacity from power

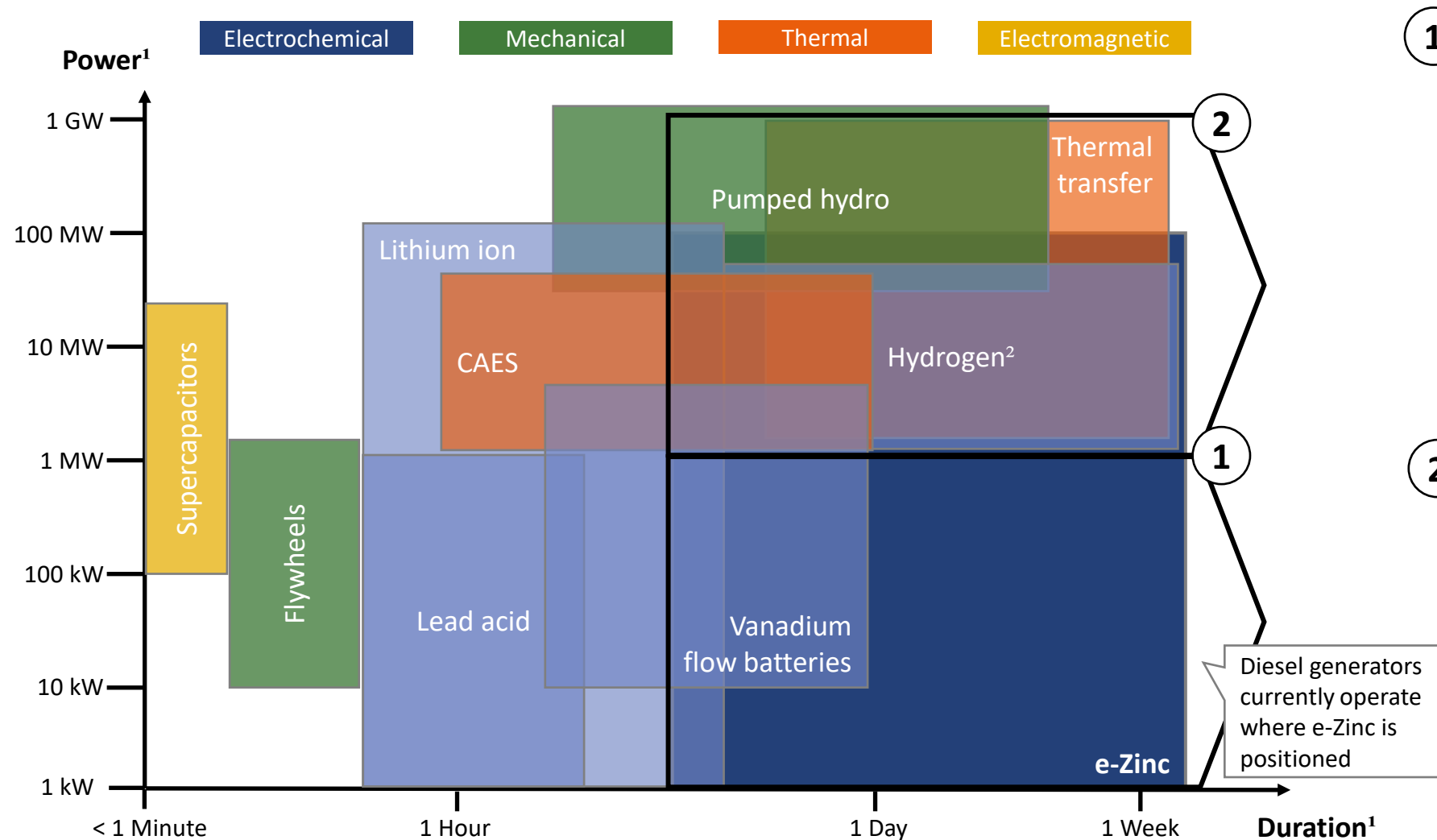
Market Opportunity



e-Zinc's Horizons - Value Propositions

	Horizon I: Resilience	Horizon II: Remote	Horizon III: Renewables
Target customers	Commercial Industrial MUSH	Remote industries (mining, oil & gas, and telecom) Remote communities	Large-scale FTM projects: both standalone and renewable-paired
Value proposition	Customer Bill Management Wholesale Market Energy Arbitrage Resilience	Diesel Abatement 100% Clean Power Resilience	Renewable Time Shifting T&D Deferral Grid Resilience and Reliability
System sizes	10kW – 10 MW 10 – 48 hours	10 kW – 10 MW 10 – 100 hours	1 MW – 1 GW 10 – 100+ hours
e-Zinc differentiation	Ability to serve daily cycling needs for cost savings and revenue generation while reserving enough capacity to ride through single day/multi-day outages	Robust, safe chemistry that can perform multi-day dispatch in harsh environments to displace costly diesel and ensure efficient use of onsite renewables	Ability to time shift during periods of renewable lulls thus helping move toward a 100% renewable grid, reduce congestion and deliver energy to defer T&D upgrades

Competitive Landscape



1 Horizon I: Resilience and Horizon II: Remote

- **Power:** 1kW – 1MW
- **Duration:** Hours to days
- **Technologies:**
 - Diesel generators
 - Lead acid
 - Lithium ion
 - Vanadium flow batteries

2 Horizon III: Renewables Integration

- **Power:** 1MW – 100MW
- **Duration:** Hours to weeks
- **Technologies**
 - Pumped hydro
 - CAES
 - Hydrogen²
 - Thermal transfer

Source: Department of Energy Grid Energy Assessment 2020; McKinsey LDES 2021; Bloomberg NEF Lithium Ion 2021 Report; e-Zinc internal analysis; IEA; Company websites

Note: (1) Representative of the approximate powers and durations, not intended to be precise; (2) Hydrogen requires both a fuel cell and electrolyzer to act as a rechargeable battery

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Competitive Advantages



Flexible & scalable

Scale energy capacity independently from power



Long lifetime

~15 years expected lifetime with minimal degradation



Fire safety

No risk of thermal runaway, obtaining UL certifications



Wide operating temperature

-30°C to 60°C operating temperature range



Low aux power

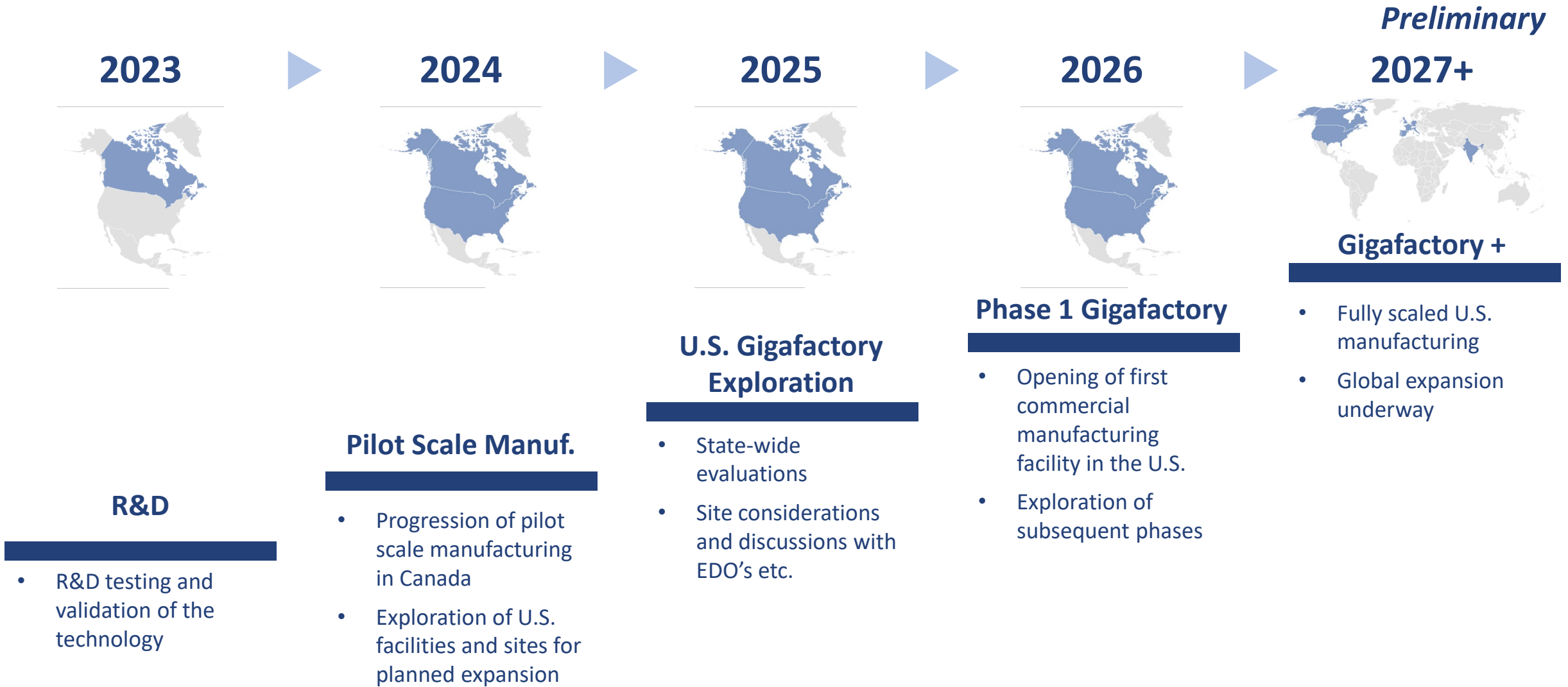
<0.1% of output power used for aux with no need for HVAC or liquid cooling



Recyclable / reusable

Commodity materials are fully recyclable at end of life

Roadmap



Summary

- | | | |
|---|-------------------------------------|---|
| 1 | Safe and reliable technology | No risk of thermal runaway and commodity materials |
| 2 | Unique value proposition | Provide 10-100+ hours of cost-effective storage |
| 3 | Demonstrated history | 10+ years of R&D and active demonstration projects in-field |
| 4 | Turnkey solution | Ability to offer a fully integrated ESS solution to customers |



“Metalized Electricity”



Brett Simon, Director, Commercial Strategy

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