Coulomb

Revolutionizing Battery Technology with US-Made “Total Solutions”

We are committed to affordable, safe, and sustainable energy solutions.

Too Much Noise in the Batteryverse

Price Stability

Global supply chains are complex. They're vulnerable to disruptions and geopolitical tensions.

Safety Concerns

Existing batteries pose safety risks. This is due to volatile materials and complex designs.

Decision Difficulty

Lack of technical / economic / lifecycle understanding, Up-time guarantees, US scale-up, Remote alerts, etc.

One technology Can't Meet Every Need

Our Total Solution: Cradle to Cradle Support, Multiple Solutions, Performance Guarantees

1 **Cost-Effective**

Sodium/ Zinc technology reduces material costs. It makes energy storage more affordable.

2 **Enhanced Safety**

Safer materials minimize the risk of thermal runaway. This ensures greater safety.

3 **US Supply Chain**

A domestic supply chain boosts reliability. It reduces dependence on foreign sources.

Customization/Tailored Battery Solutions for Diverse Applications

1

Sodium-Ion

Ideal for grid/industrial storage, forklifts, golf carts, back-up power, BB2590 for military, & starter batteries (replace lead acid).

2

Solid-State Sodium

Suitable for EVs, power tools, consumer electronics, & military.

3

Zinc-Ion

Excellent for residential, retail, and healthcare storage due to safety & cost.

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Innovation Partnerships with Oak Ridge & Argonne National Labs

Leveraging expertise in materials science for battery innovation.

OAK RIDGE National Laboratory

Argonne NATIONAL LABORATORY

BERKELEY LAB

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

RIT

UNIVERSITY OF South Carolina

RUTGERS

CLEAN TECH OPEN

Collaborations

Combining strengths to accelerate development and deployment.

NJEDA ECONOMIC DEVELOPMENT AUTHORITY

NREL NATIONAL RENEWABLE ENERGY LABORATORY

CALIFORNIA ENERGY COMMISSION

TVA TENNESSEE VALLEY AUTHORITY

INVERGY

IDAHO POWER

gm general motors

We Don’t Need Lithium

Use Case / Specs	Lithium	Coulomb’s Sodium	Coulomb’s Solid-State Sodium	Coulomb’s Zinc
Lowest Cost	4	3	2	1
Safest	4	3	2	1
Lightest	1	2	1	2
Fast Charge & Discharge	2	1	1	3
Highest Power Density*	2	2	1	4
Best Cycle Life	1	1	1	2
Lowest Temp Capable	4	1	2	3
Highest Temp Capable	4	3	2	1
Easiest to Scale Up	3	2	3	1
Ease of US Supply Chain	3	1	2	1
Easiest to Recycle	3	1	2	1
Total	31	20	19	20

**Highest* power density typically means high discharge current, low impedance, & the use of thin electrodes*

Achievement

Raised 1M $, 4 LOIs Backed by New Jersey, CalSeed, & Innovation Crossroads

New Jersey	Supporting local innovation and economic growth.
CalSeed	Investing in early-stage technology ventures.
Innovation Crossroads	Empowering scientists to become entrepreneurs.

US Supply Chain: Ensuring Reliability and Security

Sourcing

Prioritizing domestic materials.

Manufacturing

Creating US jobs.

Distribution

Reliable delivery.

A US-based supply chain ensures quality. It promotes economic growth and energy independence. This is an ideal solution for our battery production.

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Market Opportunity: Addressing the Growing Demand for Battery Solutions

$100B

Market Size

$1B SOM market globally.

300%

Growth

Expected growth in next 5 years.

50%

Demand

Increase in demand expected.

Combined 61 Years of Energy / Battery Experience

Tim Vosburgh

Founder & CEO - MBA

30 years exp - high volume contract mfg / semi equipment

2nd battery startup

Subathra Rajendran

CTO

21 years Exp in energy Industry / Master in Renewable & Clean Energy

Thanh Le Ph.D

Sr. Scientist

Battery Scientist and DFT modeling specialist

Dr. Xiaoran Yang PhD

PhD – Scientist

5 years of battery development experience.

Dr. Connor Kniaz

Sr. Scientist

3 years of battery development experience at Natrion

Nathan Neisius PhD

Sr. Scientist

PhD Inorganic chemistry, recent grad, battery research

VERY EXPERIENCED KEY ADVISORS

Ilias Balharouak

Corporate Fellow

Head of Electrification Section
Distinguished scientists
24 years science research

OAK RIDGE National Laboratory

Parans Paranthaman

Corporate Fellow

Fellow National Academy of Inventors &
Materials Research Society
39 years science research

OAK RIDGE National Laboratory

Sanja Tepavcevik

Chemistry Scientist

23 years science research

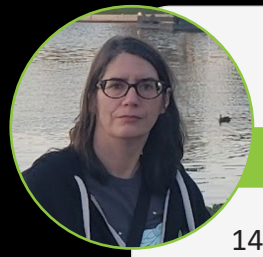
Argonne NATIONAL LABORATORY

Kevin Huang

Professor Electrochemistry

19 years science research
Acidic zinc-MnO2 development

UNIVERSITY OF South Carolina



Stefanie Goldman

PhD – Consulting Scientist

14+ years of zinc battery
development experience.

eos

Trenton Gallagher

Sr. Cell Engineer

PhD battery development

Roadmap to U.S. Manufacturing

1

Q1 '25

Sodium-Ion 3kWh Pack Demo for SLI, e-mobility, residential and industrial ESS.

2

Q3 '25

Ramp up Sodium-Ion Pack Manufacturing in the USA.

3

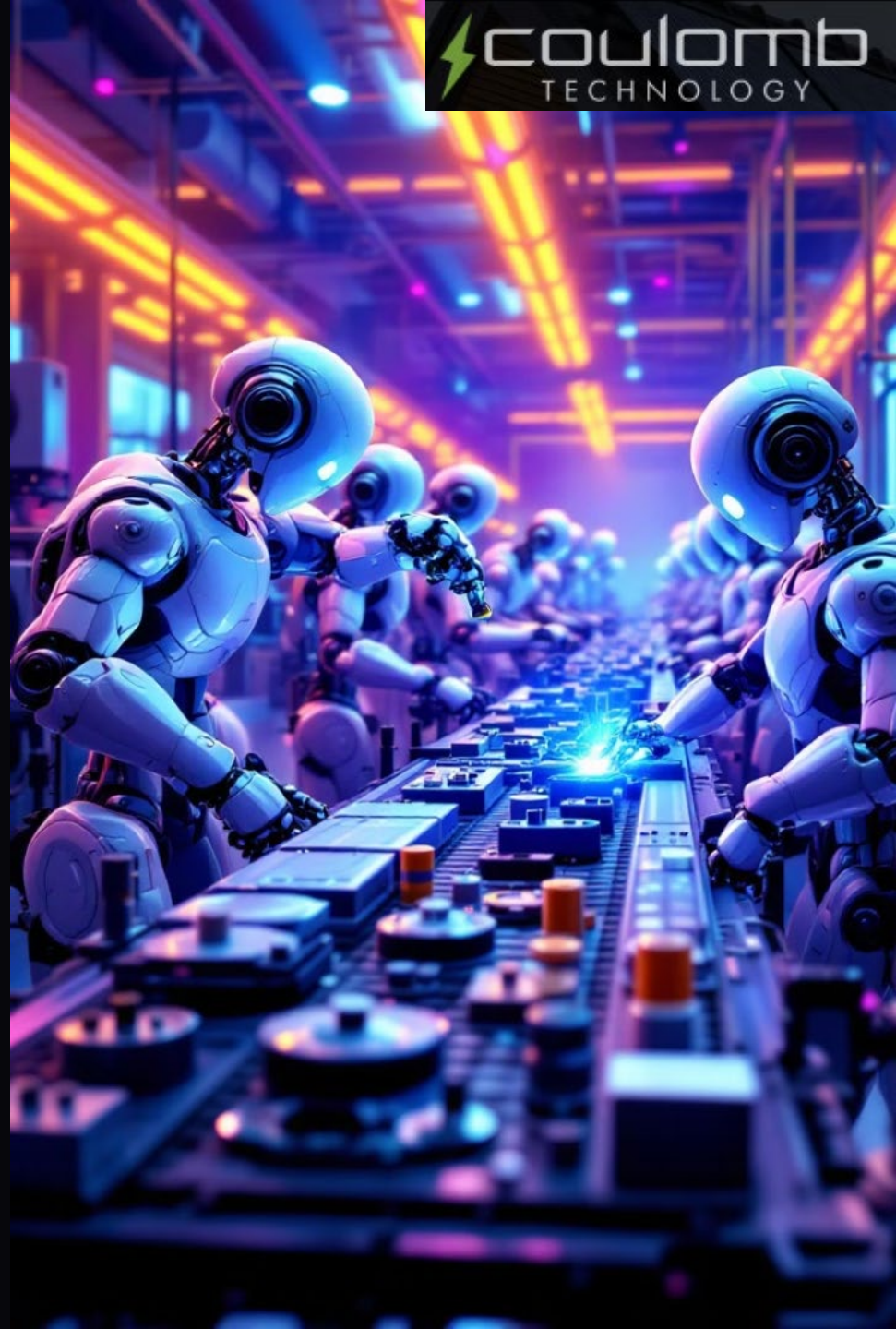
Q1 '26

Zinc-Ion Pack Demos begin.

4

2027

Ramp Sodium Cell Manufacturing in the USA.



Why Choose us??

1. **Disruptive Technology**
   Offering a better alternative to lithium.

2. **Scalable and Sustainable**
   Built for growth and a sustainable future.

3. **Proven Expertise**
   Team with deep industry and technical knowledge.

4. **Strong Market Demand**
   Businesses need safer, more affordable energy solutions.

Join us to transform energy storage.

Backup

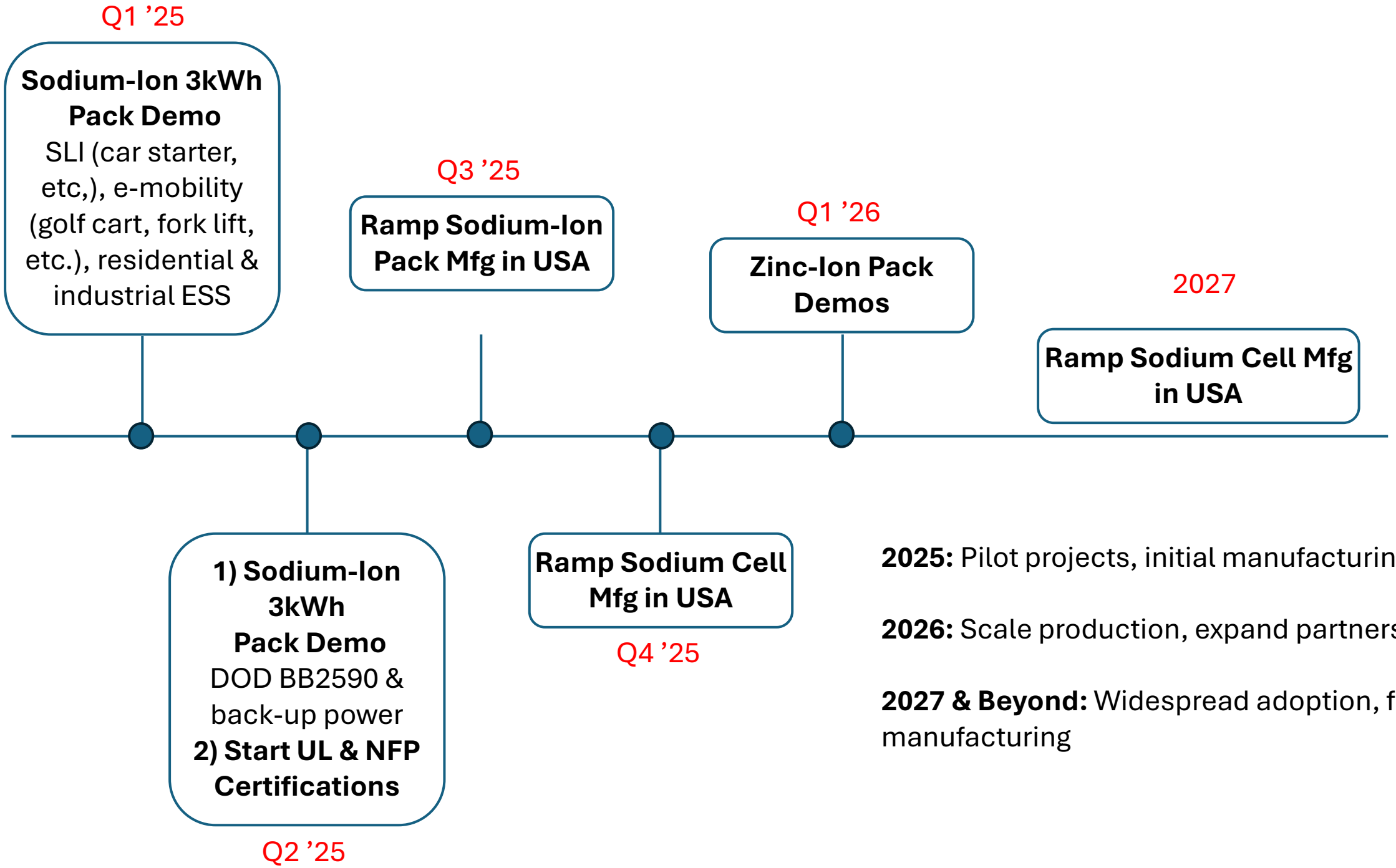
Cradle-to-Cradle Revenue Model: Sustainable and Profitable

1 **Design**

2 **Production**

3 **Recycle**

Our batteries are designed for reuse and recycling. We minimize waste and maximize resource efficiency. This creates long-term value.



2025: Pilot projects, initial manufacturing

2026: Scale production, expand partnerships

2027 & Beyond: Widespread adoption, full U.S. manufacturing