Nano One Materials Corp.

48 Patents (56+ Pending)

TSX: NANO | **FF:** LBMB | **OTC:** NNOMF

Supply Chain Resilient | Easier-to-Permit | Simplified Process | Modular & Scalable

Changing How the World Makes Battery Materials

Cost-Competitive Cathode Production Technology

Disclaimers

TSX: NANO | FF: LBMB | OTC: NNOMF

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500+ Years Cathode Experience

Executive, Investor and Business Leaders

Dan Blondal
CEO, Founder & Director

Alex Holmes
COO

Denis Geoffroy
CCO

Carlo Valente
CFO

Adam Johnson
SVP, External Affairs

Kelli Forster
SVP, Ppl & Culture

Dr. Guoxian Liang
SVP, Technology

Paul Guedes
Director, Capital Markets

Andrew Muckstadt
VP Business Development

Board of Directors

Anthony Tse
Chair

Dan Blondal
CEO, Founder & Director

Lisa Skakun
Director

Carla Matheson
Director

Dr. Joseph Guy
Director

Advisors

Robert Morris

Dr. Yuan Gao

Joe Lowry

Hon. Frank Fannon

Battery 101 & Market

Dan Blondal, *CEO, Director & Founder—Nano One*

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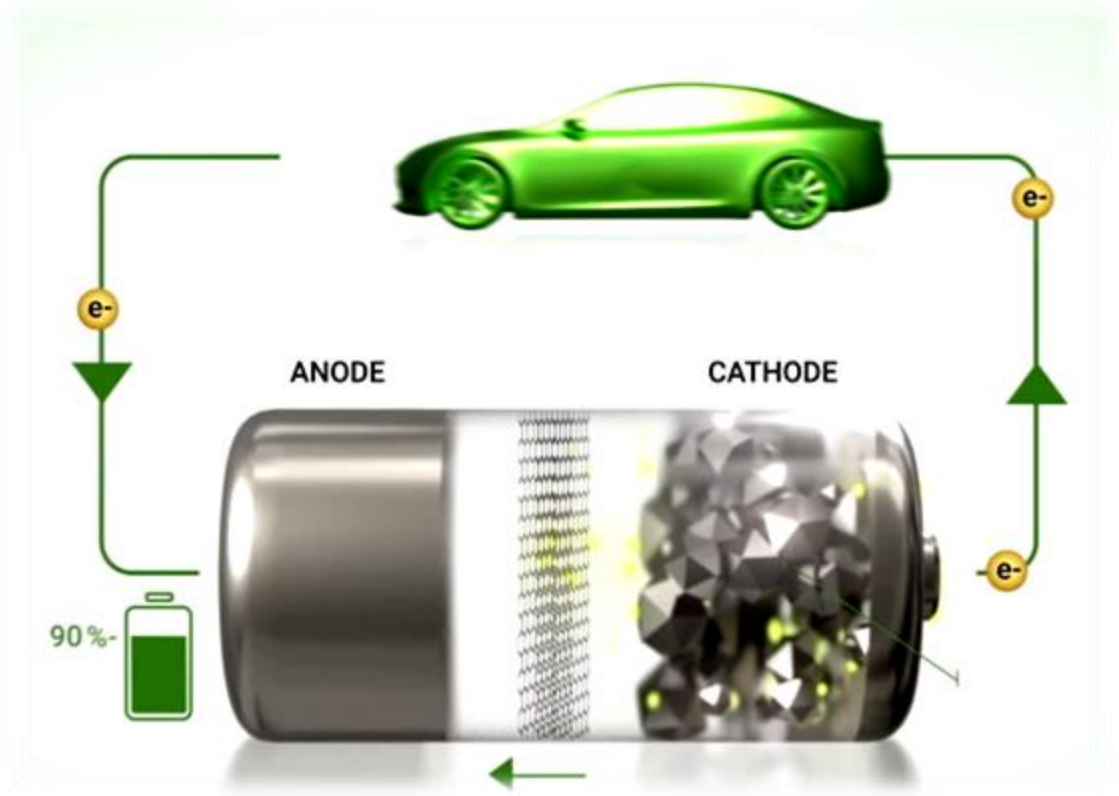
Batteries 101

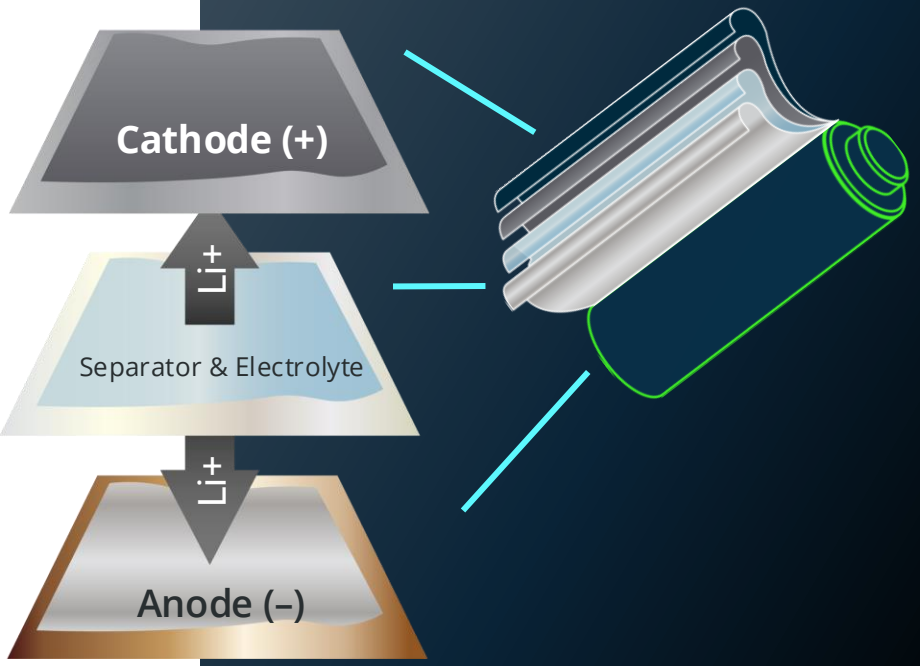
How Lithium-ion Batteries Work



Charging moves lithium ions from the cathode through the electrolyte to the anode

Energy is generated when lithium ions move from the anode to the cathode.

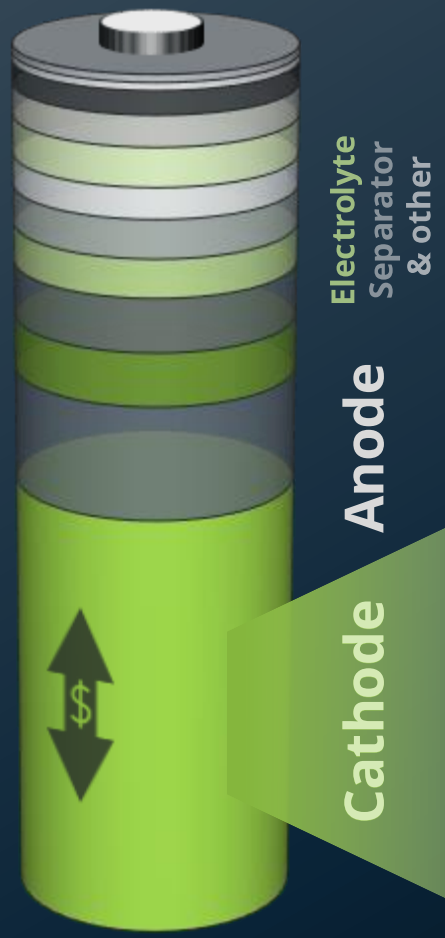
COMPONENTS



CAM 101

Cathode Active Material (CAM)

- Key to energy density, durability, power output, and efficiency.
- Most complex, costly, energy, and environmentally-intensive component.



Cathode Cost[1]

~30-50%

±15% due to variations in raw material costs

↑ Durability ↑ Safety ↓ $
LFP Pack density ≈ NMC
mass market EV, BESS[2], Industrial
70-80% Market Share in China

↑ Density ↓ Durability ↑ $
Luxury long range EV
Various types (622, 811, 955 etc.)

↓ Density ↑ Voltage ↑ Charge
Next Gen Chemistry - niche

[1] Source: Fastmarkets-Battery-Cost-Index-Oct24.pdf
[2] EV= Electric Vehicle, BESS = Battery Energy Storage System

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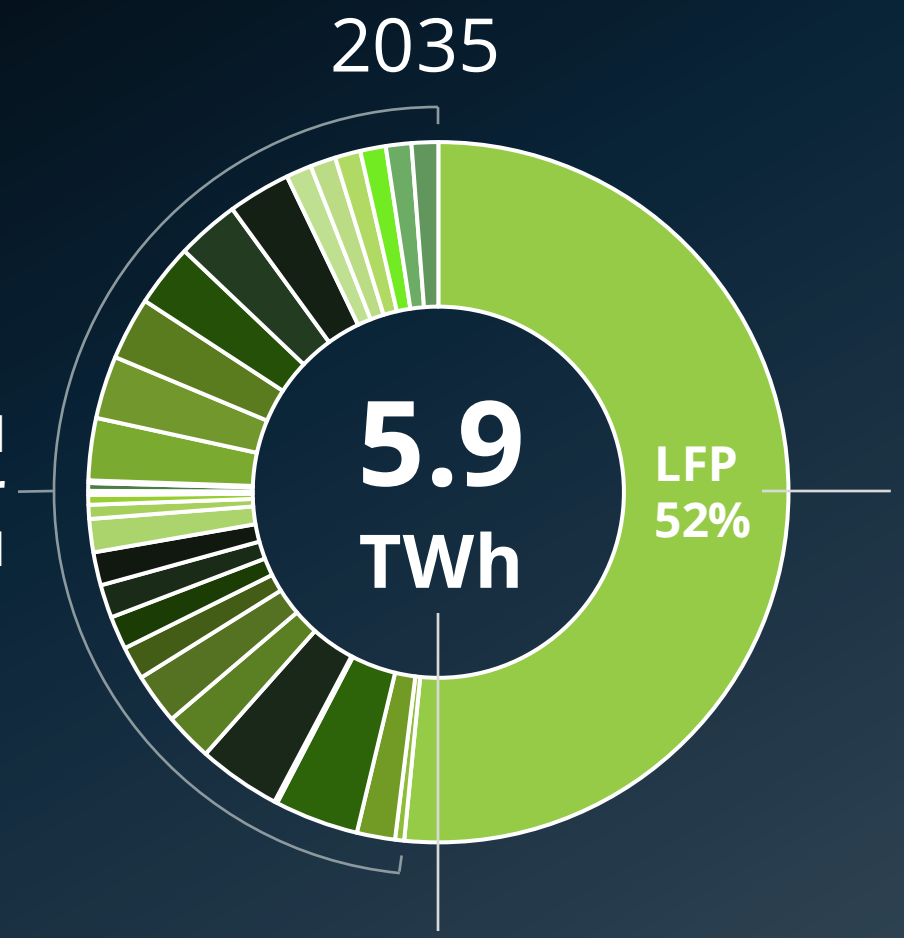
Global Cathode Chemistry Market Demand Forecast[1]

[1] derived from Bloomberg NEF Lithium-Ion Batteries: State of the Industry 2024

20+ variations of NCM, NCA, NCMA, LMR, LNM, LMFP, Na-ion, etc

Average market size **2.5%** **(~150 GWh)**

New formulations of LMFP, LMR and NM(CA) will further bifurcate markets by 2035



LFP 52% (~3100 GWh)

20X

Addressable Market & Economy of scale

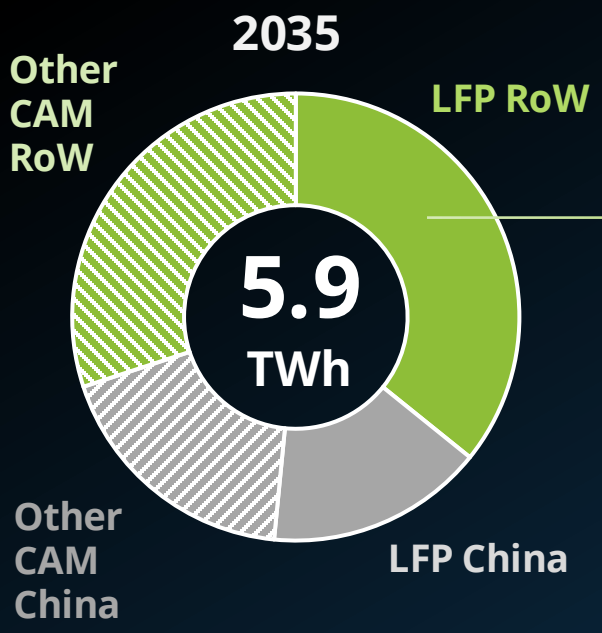
larger addressable market & reduced cost of production compared to non-LFP formulations.

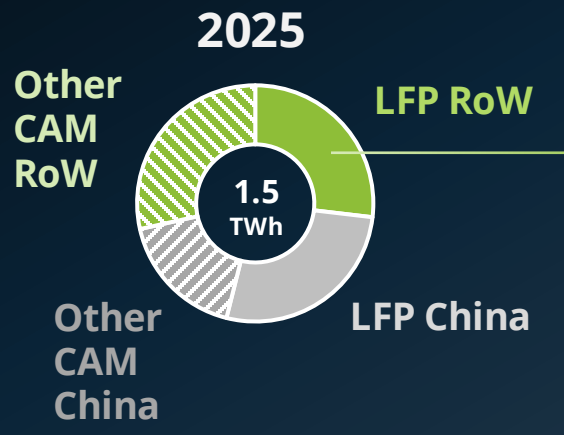
98 million EVs (@ 60KWh / EV), or

enough to supply every home, business and industry in California for 8 days[1] or Canada for 4 days[2]

[1] California Energy Commission, 769 GWh/day electricity demand [2] Statistics Canada, 1.54 TWh/day electricity demand

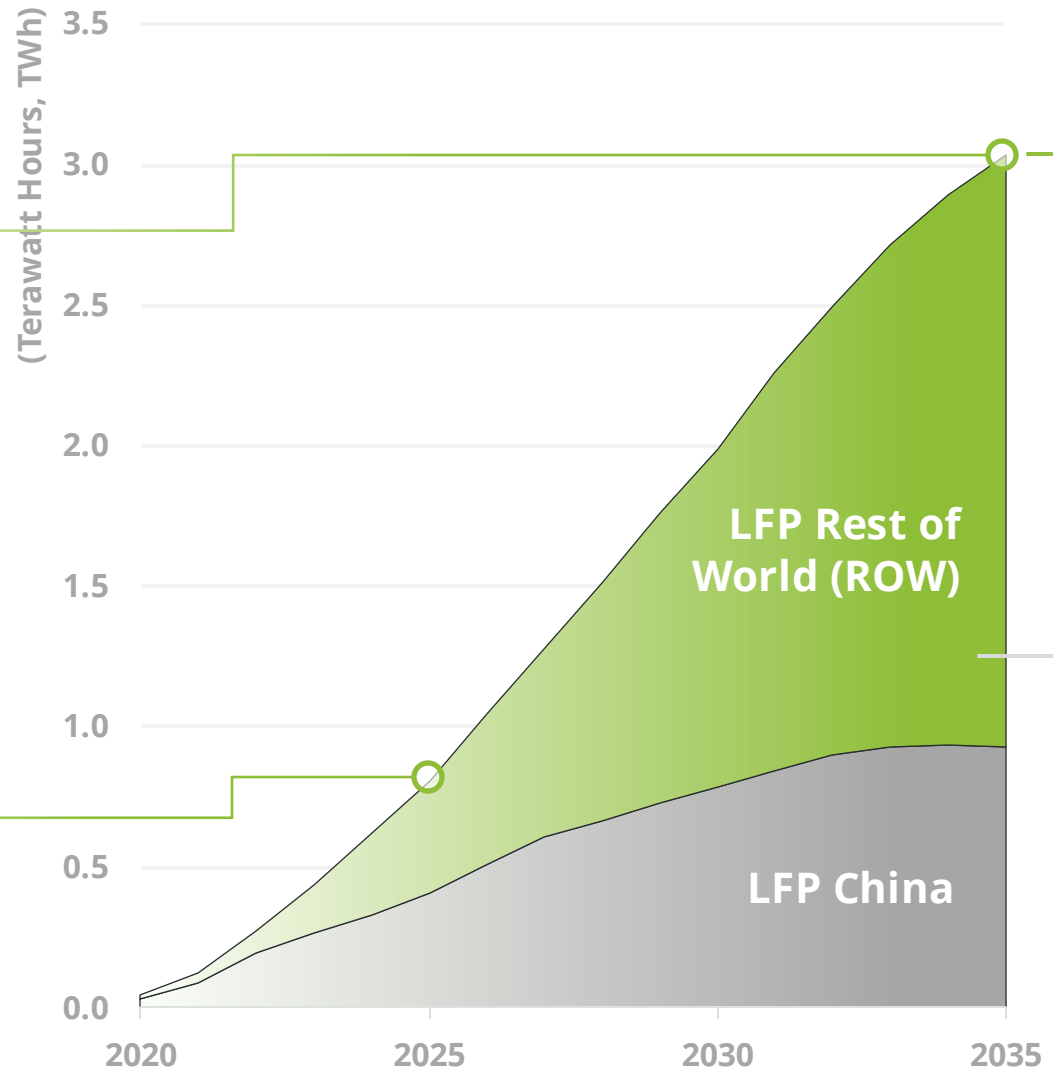
Cathode Market Demand Forecast[1]





LFP Demand Market Forecast[1]

Mass Adoption is Clear



3X higher than forecasted [1,2] in 2021

5X LFP Growth, RoW from 2025-35
Driven by ↑ AI ↑ BESS ↑ EV

2.1 TWh LFP RoW 2035
3.4 mtpa LFP
136 $½B plants
35 million EVs

$40B/yr Serviceable Addressable Market (SAM)

[1] *Bloomberg NEF Lithium-Ion Batteries: State of the Industry 2024*
[2] *Bloomberg NEF Long Term Electric Vehicle Outlook 2022*

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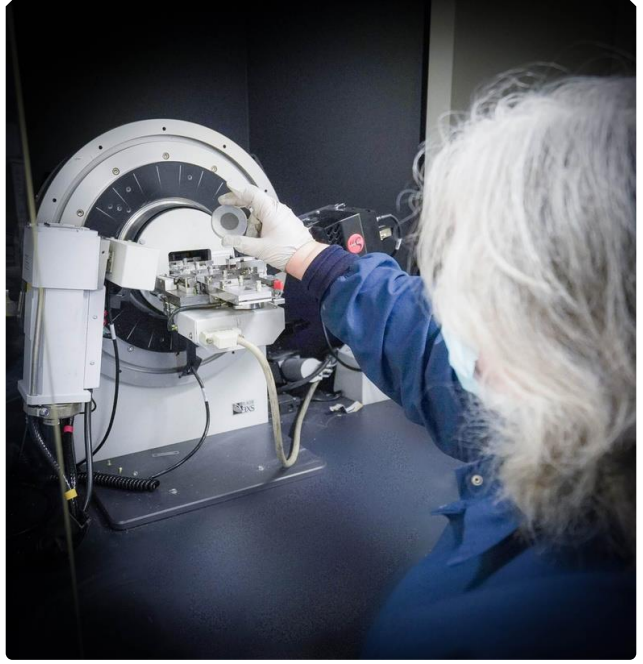

Market Challenges & Industrial Solutions

The Global Battery Bottleneck is Cathodes

Between mining & batteries—critical minerals are ***refined & transformed*** into cathodes.

Mine Critical Minerals | **Refine & Purify** | **Process into Cathode Materials** | **Assemble into Cells** | **Assemble into Packs** | **Integrate & Apply** | **Re-Use & Re-Cycle**

China Produces 98% of Global LFP Cathodes

(IEA Global Critical Minerals Outlook 2024)

Foreign control of refining, purification and processing is a critical chokepoint.

- June 2025 **G7** pledges coordinated action on battery supply chain resilience.
- July 2025 **OBBB** disqualifies foreign-processed batteries from tax credits, incentivizes local processing.
- July 2025 **China** finalizes export controls on LFP and lithium processing tech.

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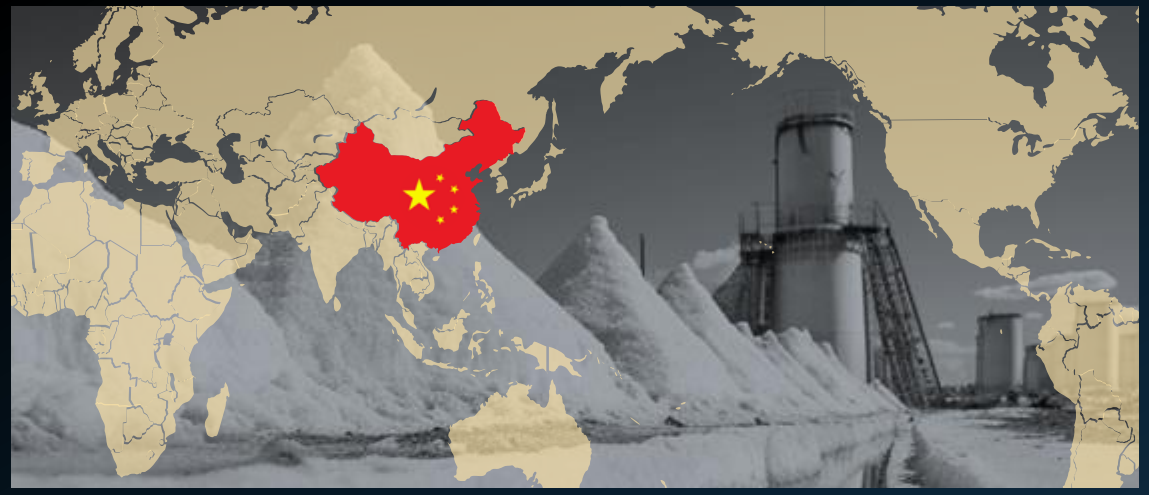
The Challenge

onePot LFP Solution

China Controls LFP Production and Supply Chain	Nano One is responding to Voice of the Customer	
		
Abundant low-cost source of iron sulfate from tailings	Qualify local sources of iron	**Eliminate bottleneck**
Lax regulation of sulfate handling and wastewater	ZERO wastewater & sulfate	**Easier-to-Permit**
Vertical integration drives down cost	Integrate pCAM with CAM	**↓ Cost, Energy, Water**
Economies of scale and large capacity	Design One, Build Many	**Deploy and scale rapidly**
Widespread industrial knowhow	Only LFP plant outside Asia	**Expertise in place**
Low-cost equipment	Leverage global partners	**Low-cost procurement**
Export controls on process technology	48 patents and 56+ pending	**Technology independence**

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onePot Process

PCAM, CAM & Coating combined

See how it works

PCAM integrated with **CAM** *(48 patents 56+ pending)*

Cost-competitive[1] & Greener[2]

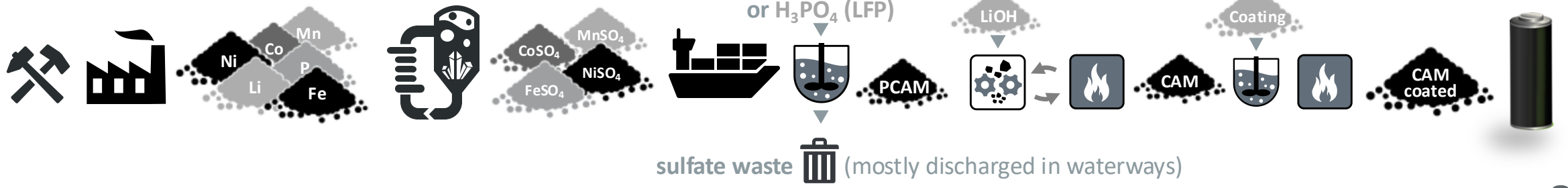
- ↓ 30% OPEX ↓ 30% CAPEX
- ↓ 80% less energy
- ø sodium sulphate wastewater
- ↓ **50-60%** GHGs
- ↓ **80%** water usage
- ↓ foreign supply chain risk
- modular – easier to permit, build & operate

[1] Cost Comparison – https://nanoone.ca/news/nano-one-provides-progress-update-on-its-alliance-with-worley-and-cost-comparison-demonstrating-the-case-for-one-pot-enabled-lfp-cathode-production/

[2] Independent Life-Cycle Analysis – https://nanoone.ca/news/nano-one-could-reduce-ghgs-by-up-to-60-for-nmc-50-for-lfp-and-reduce-water-use-by-up-to-80/

Standard Process

PCAM, CAM & Coating separate



Innovative Technology Solutions

Supply Chain Resilient | Easier-to-Permit | Simplified Process | Modular & Scalable

Sulfate-Free Inputs
M2CAM ®

M2CAM® technology uses metal powder inputs eliminating 100% of wasteful sodium sulfate by-products.

This simplifies manufacturing, reduces costly wastewater treatment and permitting hurdles, and enables a flexible localized supply of critical input materials for greater security and resilience.

↓ foreign supply chain risk

Ø sodium sulphate wastewater

Streamlined Process
One-Pot™

Our Patented One-Pot™ Process eliminates costly waste treatments, cuts energy use with high-efficiency kilns, and reduces supply chain risk by enabling metal-based feedstocks.

↓ 30% OPEX ↓ 30% CAPEX[1]

↓ 80% less energy

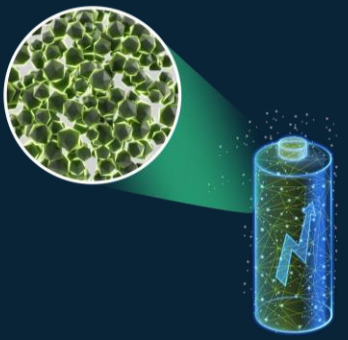
↓ 80% water usage

↓ 50-60% GHGs[2]

Next-Gen Durable
Cathodes

Our simplified One-Pot process enables protective coatings to form simultaneously at the nano level with the cathode materials.

This eliminates process steps and protects cathodes from degradation, enhancing durability for a longer-lasting lithium-ion battery.



See how it works

[1] Independent Pre-Feasibility Study | [2] Independent Life-Cycle Analysis

Partnerships & Growth

4-Year Milestones

Proactive. Funded. Focused.

- **1996** — Invention
- **1997-2001** — carbon coating IP
- **2002** — 1st license Phostech
- **2002** — 1st 600ton @ Phostech
- **2012 - 2022** — 2400 tpa @ Candiac
- **2012 - 2024** — LFP grows in China

LFP early history

nanoOne recent history

C$10.25M Candiac Acquisition

$60M non-dilutive in 6 months

- **Jun - Sept 2021** — Nano One **launches LFP** strategy
- **Dec 2021** — Bid
- **May 2022** — Agree
- **June 2022** — **$12.5M CAD** *@C$2.70 ~4.9%* — RioTinto
- **Nov 2022** — Close
- **Feb 2023** — **C$10M** SDTC
- **Sept 2023** — **C$16.9M** *@C$3.07 ~4.9%* — SUMITOMO METAL MINING

invested @ **~$300M** valuation

- **May 2024** — **Licensing Alliance** — worley chemetics

licensing growth

- **Aug 2024** — **C$2.8M** NGen
- **Sept 2024** — **US$13M** US DoD
- **Dec 2024** — **C$18M** Québec
- **Sept 2024** — **C$5M** *land sale*
- **Mar 2025** — **C$15.7M** *sale/lease back*

Bought: **$10M** | Sold: **$20M**
kept valuable plant & team

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Innovation Hub

Burnaby, BC, Canada

25,000 sf

LFP, NMC, LNMO & other CAM

48 Patents Granted & 56+ Pending

✓ ideate & conceptualize

✓ prove & validate

✓ develop & evaluate

Commercialization Hub

Candiac, Québec, Canada

80,000 sf

✓ Only full scale LFP plant and experienced team outside Asia

✓ World-class knowhow in production & OEM certification (IATF ISO)

✓ 200 tpa Expansion Targets: **600 tpa → 1,000+ tpa**

✓ Derisks in full scale production intent equipment

✓ Optimization & training center for licensees & partners

✓ Product validation & plant qualification

✓ Drives offtake for small/large volume production & licensees

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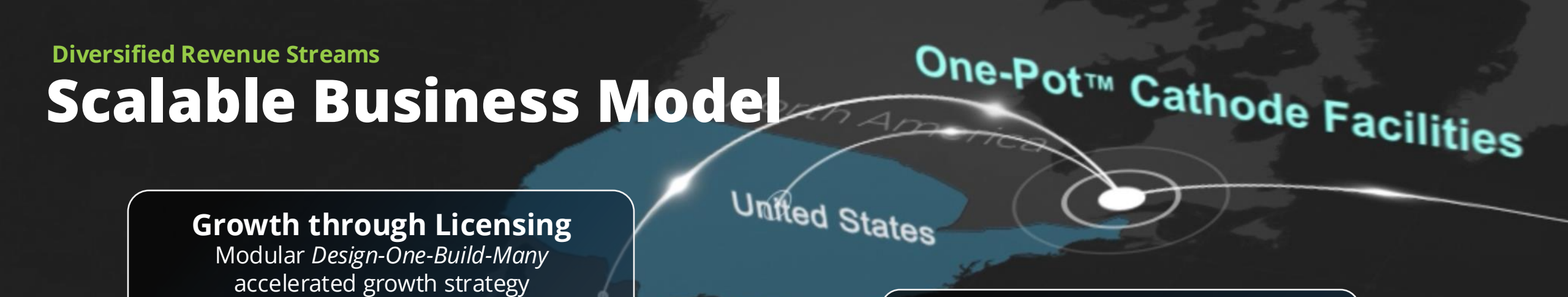
Diversified Revenue Streams

Scalable Business Model



Growth through Licensing

Modular *Design-One-Build-Many* accelerated growth strategy

- IP + engineering + equip.
- Upfront Fee + Royalty stream
- Continuous innovation
- Greater market share
- Low capital intensity
- Faster adoption
- Joint Venture

Candiac Production Plant

- Full Scale Demonstration
- Sampling and Offtake
- Licensee Support & Training
- Continuous Improvement
- LFP Production Revenue

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One-Pot™ Licensing

Rapid Global Scaling

Delivered in partnership with Worley

- Designed for ESS & EV sectors globally
- Demo plant in Candiac, Québec
- Eliminates waste & custom engineering
- Modular, scalable and globally deployable
- Easier-to-site-and-permit
- Speeds final investment decision (FID), adoption, and training
- Saves time-to-market, money and capital at risk

Flexible Licensing Packages

- One-Pot enabled
- Key Proprietary Equipment
- IP Rights
- Plant Layout
- Modular 12.5ktpa line
- Detailed Process Design

worley
DELIVERING SUSTAINABLE CHANGE

50,000 experts globally, delivering first-of-a-kind tech solutions.

AUD9B market cap
AUD1.5B battery materials division

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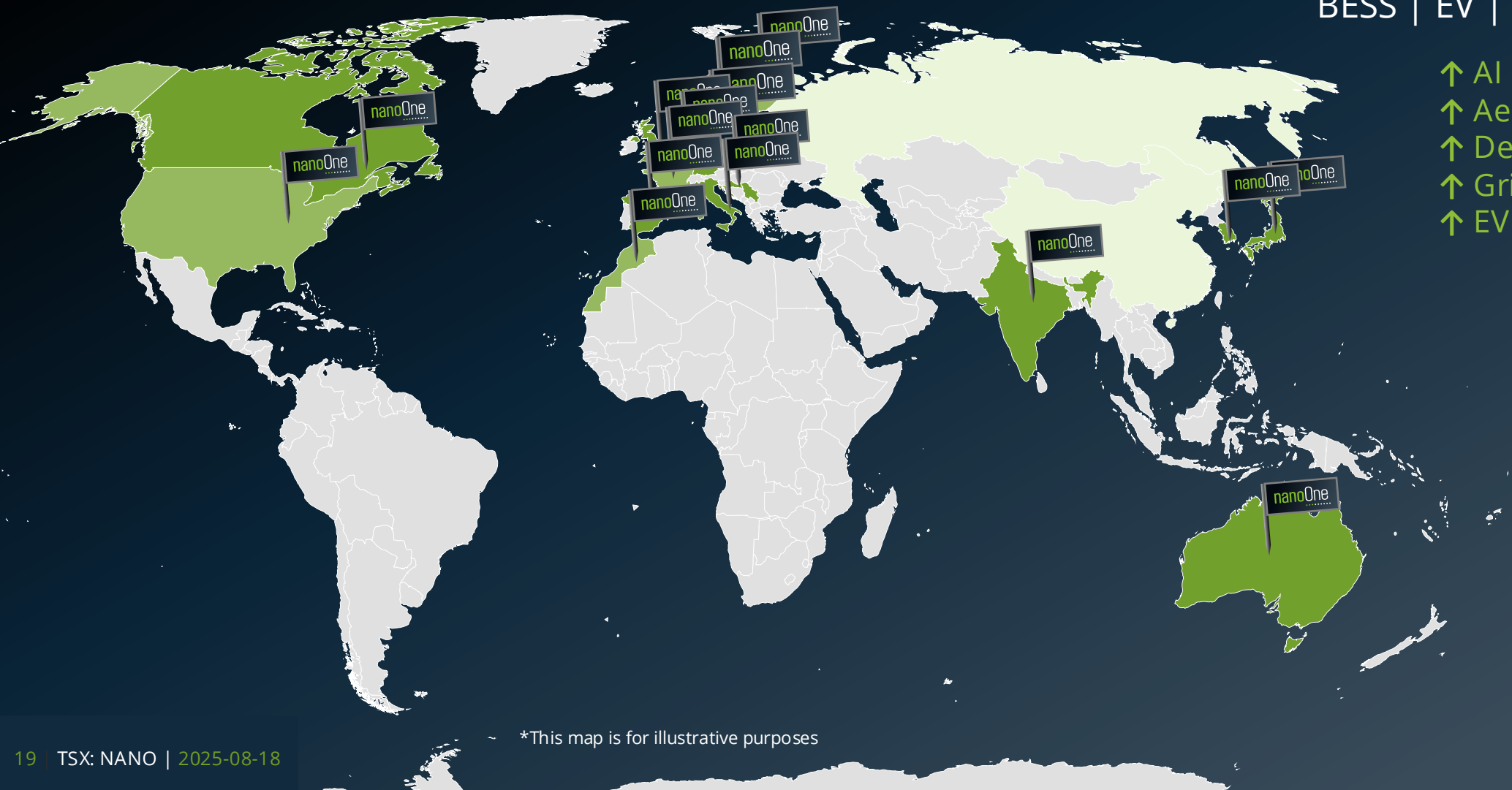
Sales | Licensing | Partnerships | Strategic $ | Government $

Global Deal Pipeline*

Voice of Customer & Global partnerships are flourishing with many sales, licensing, government, strategic prospects underway

BESS | EV | Industrial | Energy

- ↑ AI Data Centers
- ↑ Aerospace
- ↑ Defense
- ↑ Grid
- ↑ EV



*This map is for illustrative purposes

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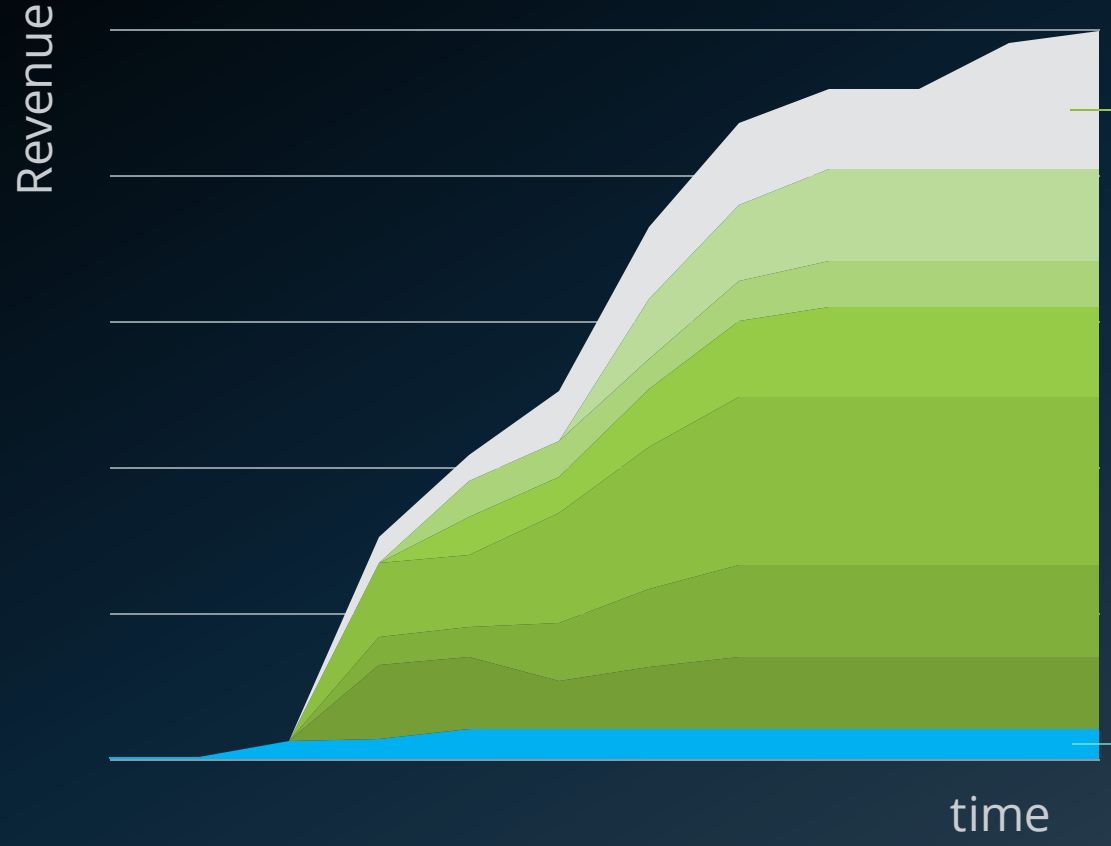
✓ Product Sales ✓ Licensing Royalties ✓ JV Development

Multi-track Revenue Growth[1]

Scale of production in line with Voice of the Customer
Defense, BESS, AI Data Centers, Industrial and EVs – each with distinct volume needs, localization requirements, qualification timelines and market adoption.

Targeting Globally
Unlocking addressable markets (TAM) for large-scale Cathode Producers



JV Revenues

↑ AI Data Centers
↑ Aerospace
↑ Defense
↑ Grid

Tech Licensing

BESS | EV | Industrial | Energy

Direct Sales (Candiac)

BESS | Defense | EV sampling

[1] *This graph is intended to illustrate how Nano One's anticipated three revenue streams (product sales, technology licensing, and joint venture revenues) are designed to scale in parallel, aligned with the expected needs of different market segments. The Company is not currently able to provide guidance on the timing or quantum of revenues, if any, from any of the anticipated streams.*

● complete ● in progress

2025 Catalysts — In Motion

Finance	$12.75M in gov funding drawn (more in process)
Non-Dilutive Capital	$60M+ secured in the last 9 months
Capacity Expansion	Engineering advancing 1000+ tpa
LFP Sales	Samples in validation for ESS, auto, defense
CAM Package	Three distinct packages developed
Licensing	Discussions in-progress
One-Pot Equipment	Reactor & kiln design started (NGen support)
Supply Chain	Regional feedstock diversification ongoing
Innovation	M2CAM® and IP in progress – 48 patents, 56+ pending
Government Policy	Strong policy alignment & engagement: US, Canada, EU

✓ Only LFP Plant Outside Asia ✓ Backed by Experts ✓ Designed to Scale

LEARN MORE

Unlocking $40B in LFP Demand

5x Market Growth (2035)

Driven by ↑ AI ↑ BESS ↑ EV
3.4 mtpa will require ~ 150 $½B lines

Capital Light Licensing Model

Modular Design-One-Build-Many growth
High margin, recurring revenue stream
Royalty stacking drives long-term value

Global Pipeline of Deals Underway

Voice of Customer & Global partnerships flourishing
Many sales, licensing, government, strategic prospects

Sustainable Advantage

Robust IP, deep expertise, and assets in place
Easier-to-permit, low-cost, low-energy, low-water
Globally & rapidly scalable w/ localized supply
Strong balance sheet

Headquarters	British Columbia, Canada (c. 2011)
Market Cap.	C$112M (USD$81M) as of 2025-08-13
Capital Structure	Issued and Outstanding: 111,496,151 as of 2025-06-30
Analyst Coverage	**Roth MKM | Maxim Group**
Business Model	License – Royalty / Independent Production / Joint Venture
Patents	**48 granted** in US, Canada, Japan, Korea, China, Taiwan, India and **56+ pending**
Leadership	Experts in financing, capital growth, technology, process engineering, production, batteries, and IP
Partnerships	**Rio Tinto | Sumitomo | Worley | BASF | Umicore | VW | O.N.E.**, and more

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Executive Summary

Growth through Technology Licensing – 48 Patents Granted, 56+ Pending

- **High margin EBITDA** – Capital light – upfront license fees – production royalty streams – rapid expansion and growth – potential JVs
- **Demo plant in Québec** derisks and supports licensees with production, offtake, training & continuous improvement
- + production revenues from Demo facility brings in non-dilutive working capital while licensing revenues ramp up

Licensing Alliance with Worley

- Co-develop, market and license modular LFP plants with Worley *(A$9 billion,* ***world's largest battery materials engineering firm****)*
- Leverage global sales & marketing platform geared to sell One-Pot enabled production lines for **rapid industrialization**
- *Design-One-Build-Many* to tackle scale up needs and **$50B+ LFP market opportunity,** followed by NMC & next gen materials

Industry validation

- **Sumitomo Metal Mining** – Japan's largest NMC and LFP producer - 5% equity stake & strategic focus on **commercial LFP**
- **Rio Tinto** – 5% equity stake + strategic supply chain collaboration. Lithium and iron feedstock

Manufacturing Advantage & Value Proposition

- **Only LFP demo plant and team outside Asia** – first to commercialize LFP (2005) with tier 1 automotive cell manufacturers
- 30% less OPEX and CAPEX, 80% less energy, zero waste, modular and easier-to-permit & no ties to China supply or tech
- Tech and licensing **supports supply chain, energy, national security interests** in wide range of jurisdictions

Government Support

- US DoD (US$12.9M), Québec (C$18M), NGen (C$2.8M) for commercial capacity expansion of Candiac Demo facility