

TSX: NANO | FF: LBMB | OTC: NNOMF

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Certain information contained herein may constitute "forward-looking information" and "forward-looking statements" within the meaning of applicable securities legislation. All statements, other than statements of historical fact, are forward-looking statements. Forward-looking information includes, but is not limited to, statements with respect to expected demand for LFP, competitive conditions, current and future collaborations, the Company's ability to achieve its stated goals, financing endeavours, technical progress and the commercialization of Nano One's technology and patents. Generally, forward-looking information can be identified by the use of forward-looking terminology such as "expects" or "plans", or variations of such words and phrases or statements that certain actions, events or results "will" or "may" occur. Forward-looking statements are based on the opinions and estimates of management as of the date such statements are made and they are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of Nano One to be materially different from those expressed or implied by such forward-looking statements or forward-looking information, including: target markets, target cost-reductions, target partners, capital expenditures, raw material and other costs, financing and additional capital requirements, the development of technology, supply chains, and plans for construction and operation of cathode production facilities, the functions and intended benefits of Nano One's technology and products, the commercialization of the Company's technology and patents and potential revenues which would reasonably expected to come from such activities, and other risk factors as identified in Nano One's MD&A and its Annual Information Form dated March 27, 2024, both for the year ended December 31, 2023, and in recent securities filings for the Company which are available at www.sedarplus.ca. Although management of Nano One has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements or forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. Accordingly, readers should not place undue reliance on forward-looking statements and forward-looking information. Nano One does not intend, and does not assume any obligation, to update any forward-looking statements or forward-looking information that are incorporated herein, except as required by applicable securities laws.



Executive, Investor and Business Leaders



Dan Blondal CEO, Founder & Director



Alex Holmes COO



Denis Geoffroy CCO



Dr Stephen Campbell CTO



Carlo Valente CFO



Adam Johnson SVP, External **Affairs**



Paul Guedes Director, Capital Markets



Andrew Muckstadt **VP Business Development**



Kelli Forster **SVP**, People and Culture

Board of Directors



Anthony Tse Chair



Lisa Skakun Director



Carla Matheson Director



Advisors

Robert Morris



Joe Lowry



Dr. Joseph Guy Director



Gord Kukec Director



Lyle Brown **Audit Chair**

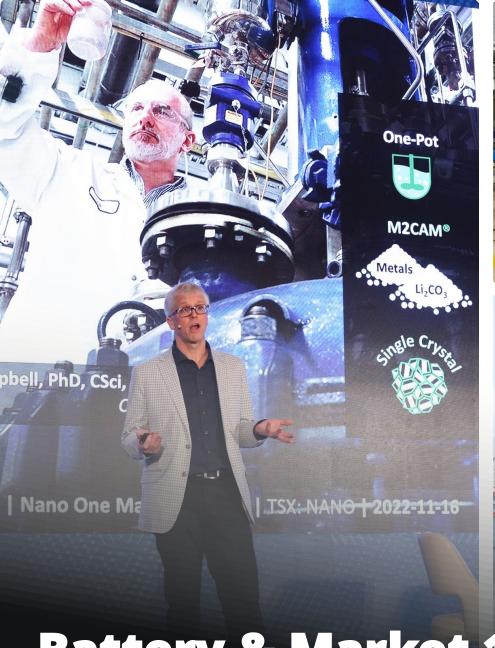


Dr. Yuan Gao



Hon. Frank Fannon











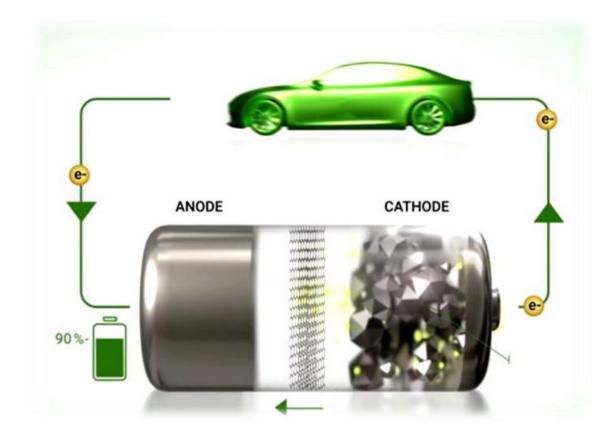


Battery & Market 101

Dan Blondal, CEO, Director & Founder—Nano One

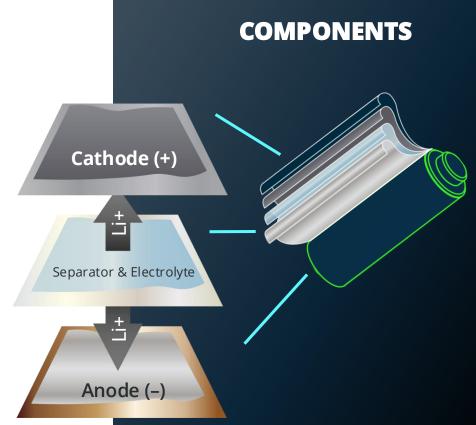
Batteries 101

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.

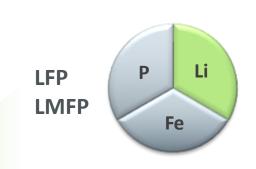




Cathode Active Material (CAM)

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

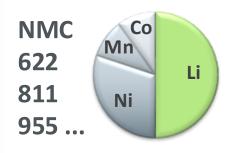
Nano One's One-Pot CAM Process – a platform for many formulations



↑ Durability ↑ Safety ↓ \$ ↓ Supply Chain Risk LFP Pack density ≈ NMC

mass market EV, ESS, Industrial

60-70% Market Share in China



↑ Density ↓ Durability ↑ \$ Luxury long range EV



↓ Density ↑ Voltage ↑ ChargeNext Gen Chemistry - niche

Cathode Cathode

±15% due to variations in raw material costs
* Source: <u>BloombergNEF 2021</u>

Electrolyte Separator & other

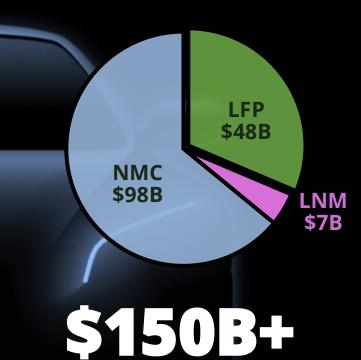
Anode

CAM

Types



Total Addressable Market (TAM) by 2035 North America + EU + Indo-Pacific



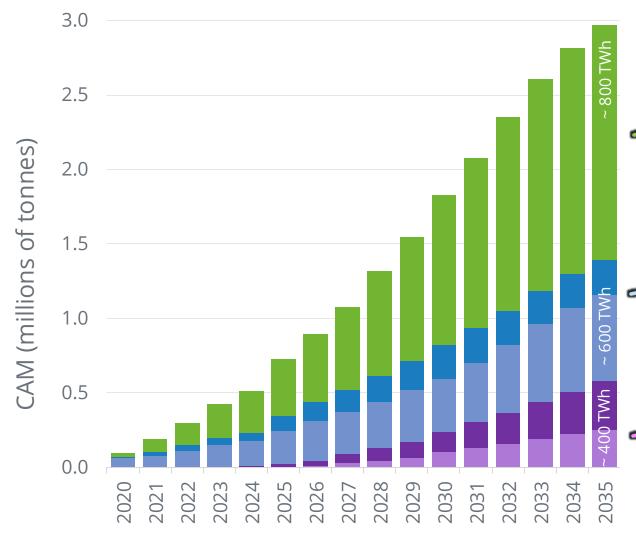
Target for licensing & production opportunities¹

1st target LFP – NMC & LNM to follow

¹ Derived from *Demand data from Benchmark Mineral Intelligence Q2 2023 Lithium-Ion Battery Database* - pricing assumes the prior 6 months' average from Benchmark's 2023 Monthly Cathode Assessments.

Cathode Market

North America + EU + Indo-Pacific²



² derived from Bloomberg NEF Long Term Electric Vehicle Outlook (2022)

LFPESS, Industrial
Mass Market EV
Heavy Duty

811, NCA, NMCLong range EV

LNM, LMR
Fast Charge
Next Gen



History of Lithium Iron Phosphate (LFP)



Scan to watch how **Nano One contributed**



Dr. John Goodenough & University of Texas Use of LFP in Li-lon

1997-2001

Hydro Quebec & Université de Montréal Carbon coating LFP

2005 **Phostech**

Makes 1st 600 tpa using solid state process

2002

1st License to Phostech Lithium In Québec – many others worldwide

Candiac Québec LFP facility history

2007 **Sud Chemie** 2400 tpa hydrothermal process 2011 Clariant 2015 Johnson Matthey 2022 Nano One Converts plant to One-Pot Process

2024

Nano One Awarded \$18 Million from Québec Gov.

Present Nano One enables LFP outside Asia

Nano One Awarded US\$12.9M from US DoD Expands LFP industrial base and strengthens energy security in North America

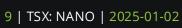
2012-2024

LFP flourishes in China









One-Pot Process

PCAM, CAM & Coating combined









↓ 80% less energy

up to 30% less OPEX



ø sodium sulphate wastewater

Cost-competitive¹ & Greener²

↓ at least
30% less CAPEX



↓ 50-60% GHGs

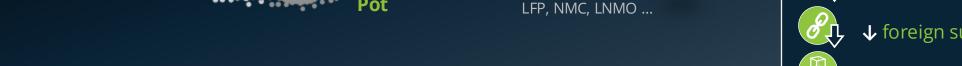


↓ 80% water usage

↓ foreign supply chain risk



modular – easier to permit, build & operate



lithiated

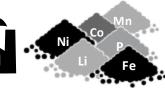
1 Cost Comparison – https://nanoone.ca/news/nano-one-provides-progress-update-on-its-alliance-with-worley-and-cost-comparison-demonstrating-the-case-for-one-pot-enabled-lfp-cathode-production/

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/

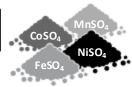
Standard Process

PCAM, CAM & Coating separate

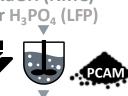


























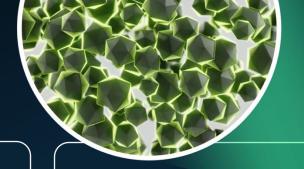




Nano One Sustainable Manufacturing Summary

Innovative Technology Solutions





Sulfate-Free Inputs M2CAM®

Our M2CAM® Technology enables sulfate-free metal powder inputs which eliminates 100% of wasteful sodium sulfate by-products while simplifying manufacturing.

This innovation also unlocks flexible supply chains for increased security and resiliency.

Streamlined Process One-Pot™

Central to our cathode manufacturing solutions, the One-Pot process simplifies production and enables our M2CAM® technology.

Our production methods require less water and consume less energy, reducing operational cost and time while using sustainable, scalable design.

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.



at least 30% less¹ CAPEX



↓ 80% less¹ energy



↓ 80% less² water usage



↓ foreign supply chain risk

up to 30% less¹ OPEX



↓ 50-60% less² **GHG** emissions



Ø sodium sulphate wastewater^{*}



easier to permit, build & operate (modular)

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/





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
- $\sqrt{200}$ tpa Expansion Targets: **600 tpa** → **1,000+ tpa**
- ✓ Derisks in full scale production intent equipment
- ✓ Optimization & training center for licensees & partners
- ✓ Product & plant qualification
- ✓ Drives offtake for small/large volume production & licensees



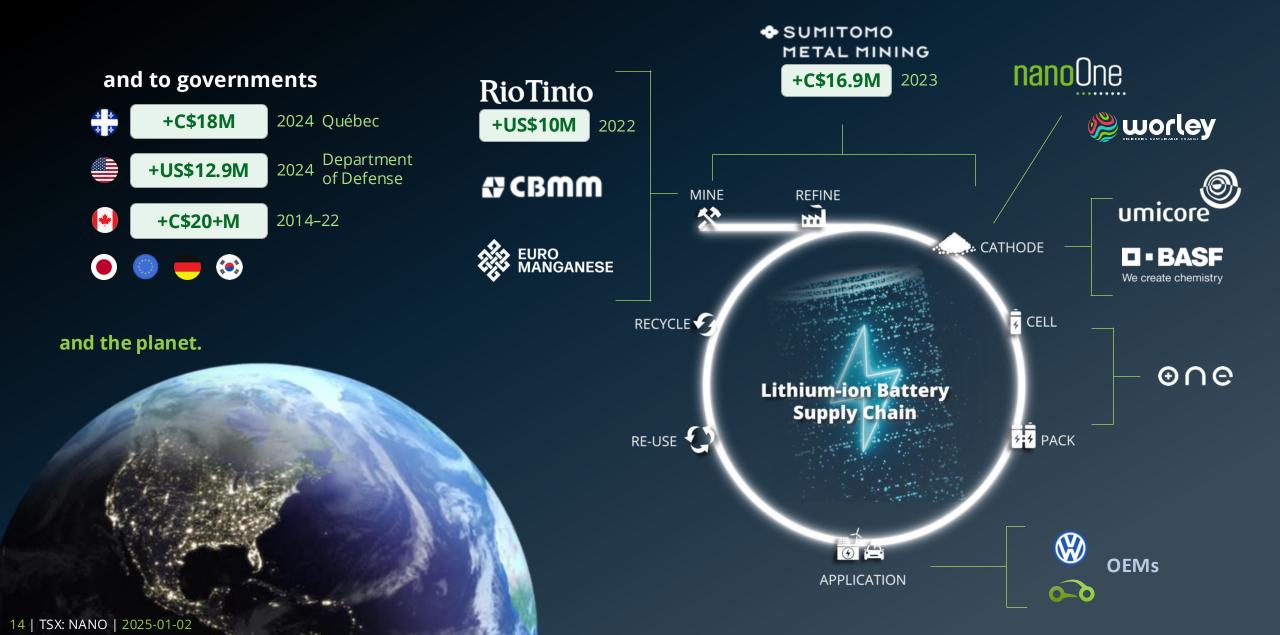








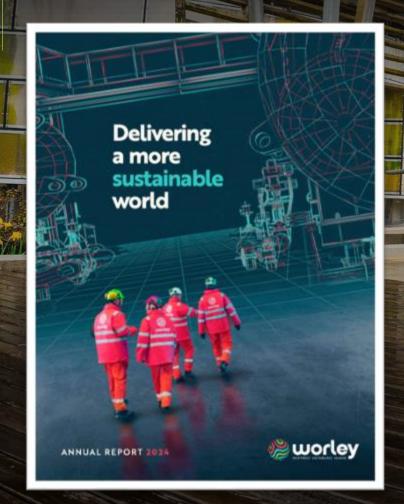
And thanks to partners around the supply chain



A global growth strategy

Partnering with like-minded multi-national companies





Nearly 50,000 experts in energy, chemicals and resources across 45 countries.

Partnership: Zoom In

AUD9B market cap AUD1.5B battery materials division

Proven process know-how and track record across 100's of mining, battery active materials, recycling, and first-of-a-kind projects.

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A Flexible Business Model

HIMINICIAN DE LA COLOR DE LA C

Nano One's Patent Wall 48 Patents Globally, 56+ pending

United States Patent

License Model

Modular Design-Once-Build-Many accelerated growth strategy



IP + engineering + equip.



Upfront Fee

+ Production Royalties



Continuous innovation



Greater market share



Low capital intensity



Faster adoption

Independent Manufacturing

Leverage existing assets and know-how



First revenue



Derisk



Train



Innovate

Joint Venture



Shared risks



Shared profit



Equity Position



License & Royalties



Nano One + Worley: Changing How the World Makes Battery Materials, together

Design-One-Build-Many Global Growth Strategy



CAM package for rapid deployment of Nano One's One-Pot tech

Engineering design + facility

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



- Eliminate waste & custom engineering
- Reduce cost, risk, time to FID & permits
- Accelerate adoption, learning, training & time to market

- Pilot and Demo in Candiac Québec
- Flexible siting, modular and scalable
- Address ESS & EV sectors globally







Nano One Candiac

operational excellence

Only LFP pilot & team outside Asia

World class know-how

OEM certification know-how (IATF ISO)

Full scale equipment

Product & Validation: Samples support Licensing & JV

1000+ tpa expansion



Recent Progress



Government of Québec Awards \$18M CAD



US Department of Defense Awards \$12.9M USD

Supports capacity expansion at Candiac LFP production and Burnaby R&D facilities.



Worley Partnership: New cost advantages of One-Pot™ LFP cathode production + first modular plant layout

At least 30% lower capex, up to 30% lower opex, up to 80% less energy.



Repeat One-Pot trials

15m³ existing commercial scale & 2m³ pilot scale reactors.



LFP out for 3rd party qualification

ESS, defense, industrial and automotive sector customers.





Changing How The World Makes Battery Materials

Thank you



Nano One Materials Corp.



Platform technology for LFP, NMC, LNM, and other Cathode formulations.

One-Pot process lowers cost, complexity, carbon intensity, & GHGs

M2CAM eliminates large volumes of wasteful byproducts.

Coated Single Crystal Cathode adds durability/range/charge/life.



Nano One® Materials Corp. (Nano One) is a clean technology company changing how the world makes cathode active materials for lithium-ion battery applications in electric vehicles, stationary energy storage, and consumer electronics

HEADQUARTERS	British Columbia, Canada (c. 2011).
MARKET CAP.	C\$111M (USD\$79M) as of 2024-12-09
CAPITAL STRUCTURE	Issued and Outstanding: 111,291,982 as of 2024-12-09
BUSINESS MODEL	License – Royalty / Independent Production / Joint Venture.
PATENTS	48 in US, Canada, Japan, Korea, China, Taiwan and 56+ pending.
LEADERSHIP	Experts in financing, capital growth, technology, chemistry, engineering, batteries, and IP.
PARTNERSHIPS	Rio Tinto, Sumitomo, Worley, BASF, Umicore, VW, O.N.E., and more.