Unlocking
Cost-Competitive Cathode Production

Made with less

waste | GHG | energy | water

Changing How the World Makes Battery Materials

40 Patents (55+ Pending) $150B+ Market in North America, EU, Indo-Pacific by 2035

Disclaimers

TSX: NANO | FF: LBMB | OTC: NNOMF

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Forward Looking Statements

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.

500+ Years Cathode Experience

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

Dr. Joseph Guy
Director

Gord Kukec
Director

Lyle Brown
Audit Chair

Advisors

Robert Morris

Joe Lowry

Dr. Yuan Gao

Hon. Frank Fannon

Battery & Market 101

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

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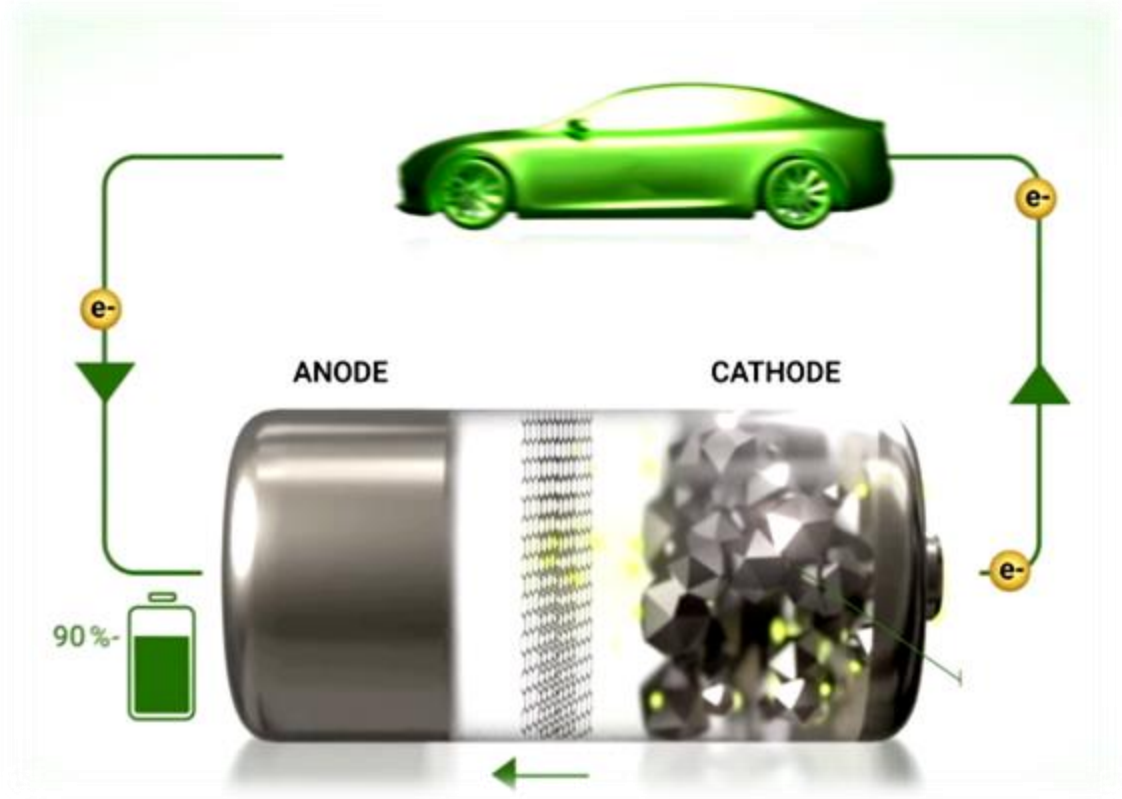
Batteries 101

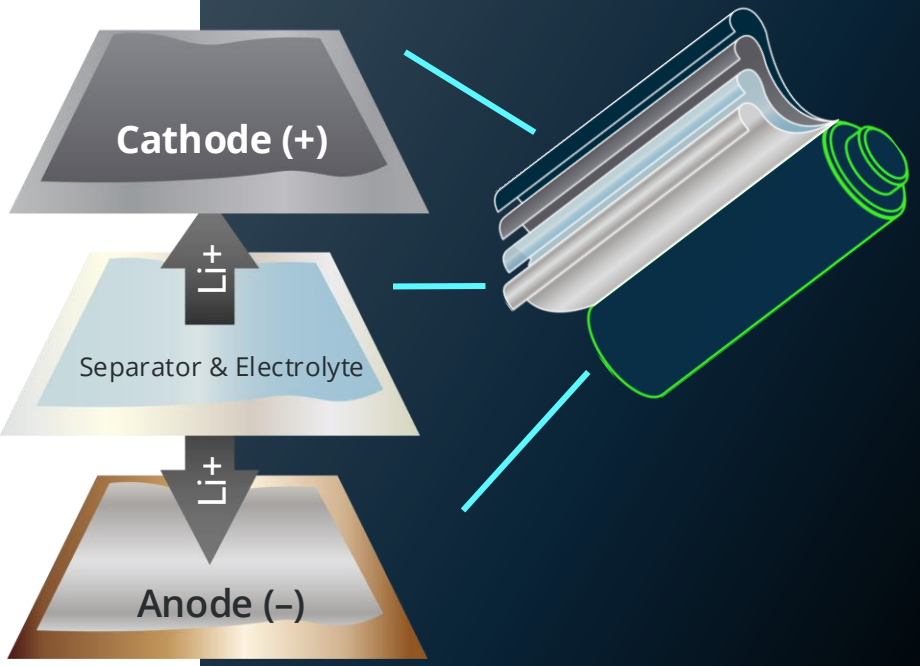
How Lithium-ion Batteries Work



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



Cathode Active Material (CAM)

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

Cathode
Cost*
50%

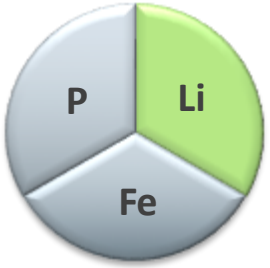
±15% due to variations in raw material costs

* Source: BloombergNEF 2021

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

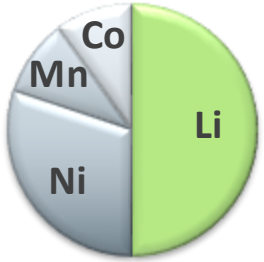
CAM Types

LFP
LMFP



↑ Durability ↑ Safety ↓ $ ↓ Supply Chain Risk
LFP Pack density ≈ NMC
mass market EV, ESS, Industrial
60-70% Market Share in China

NMC
622
811
955 …



↑ Density ↓ Durability ↑ $
Luxury long range EV

LNM

↓ Density ↑ Voltage ↑ Charge
Next Gen Chemistry - niche

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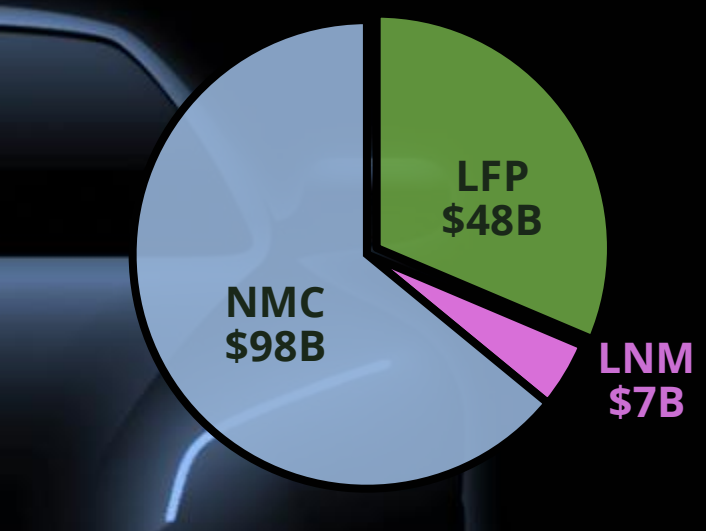
Cathode Market

North America + EU + Indo-Pacific[2]

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

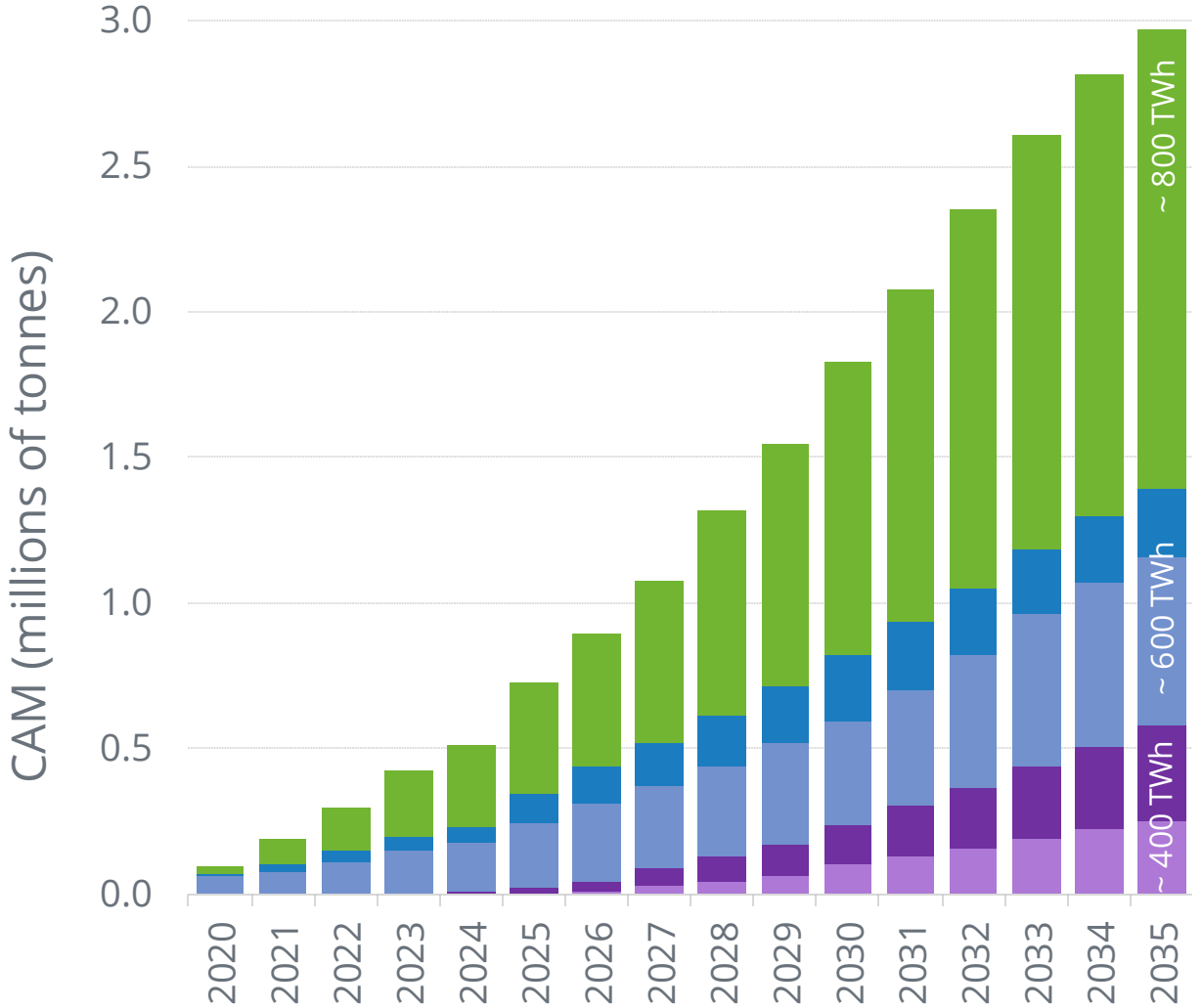


$150B+

Target for licensing & production opportunities[1]

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.



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

LFP
ESS, Industrial
Mass Market EV
Heavy Duty

811, NCA, NMC
Long range EV

LNM, LMR
Fast Charge
Next Gen

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History of Lithium Iron Phosphate (LFP)

Scan to watch how Nano One contributed

1996
Dr. John Goodenough & University of Texas
Use of LFP in Li-Ion

1997–2001
Hydro Quebec & Université de Montréal
Carbon coating LFP

2002
1st License to Phostech Lithium
In Québec – many others worldwide

2005
Phostech
Makes 1st 600 tpa using solid state process

Candiac Québec LFP facility history

2007
Sud Chemie
2400 tpa hydro-thermal process

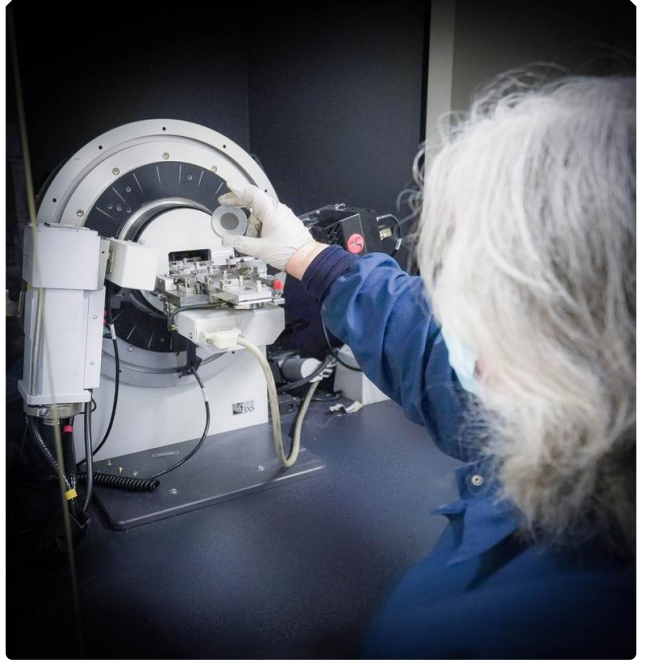
2011
Clariant

2015
Johnson Matthey

2022
Nano One
Converts plant to One-Pot Process

2024
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



Tech, Knowhow & Assets

Stephen Campbell, PhD, CSci, CChem, MRSC *CTO - Nano One*

One-Pot Process

PCAM, CAM & Coating combined

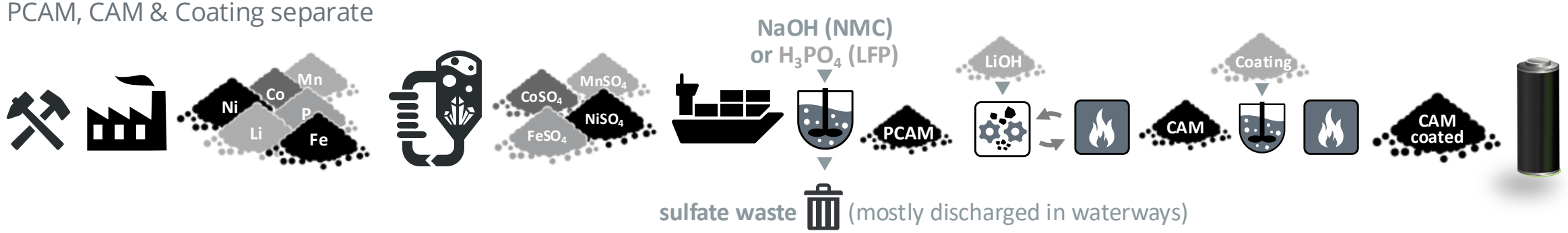
Cost-competitive[1] & Greener[2]

- ↓ steps, equip, time ↑ yield
- ø wastewater ø sulfate by-product
- ↓ energy
- ↓ **50-60%** GHGs
- ↓ **80%** water usage
- ↓ foreign supply chain risk

See how it works

Standard Process

PCAM, CAM & Coating separate



[1] Independent Pre-Feasibility Study – https://nanoone.ca/news/pre-feasibility-study-anticipates-10x-increase-in-capacity-for-nano-one-lfp-site-in-quebec/

[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/

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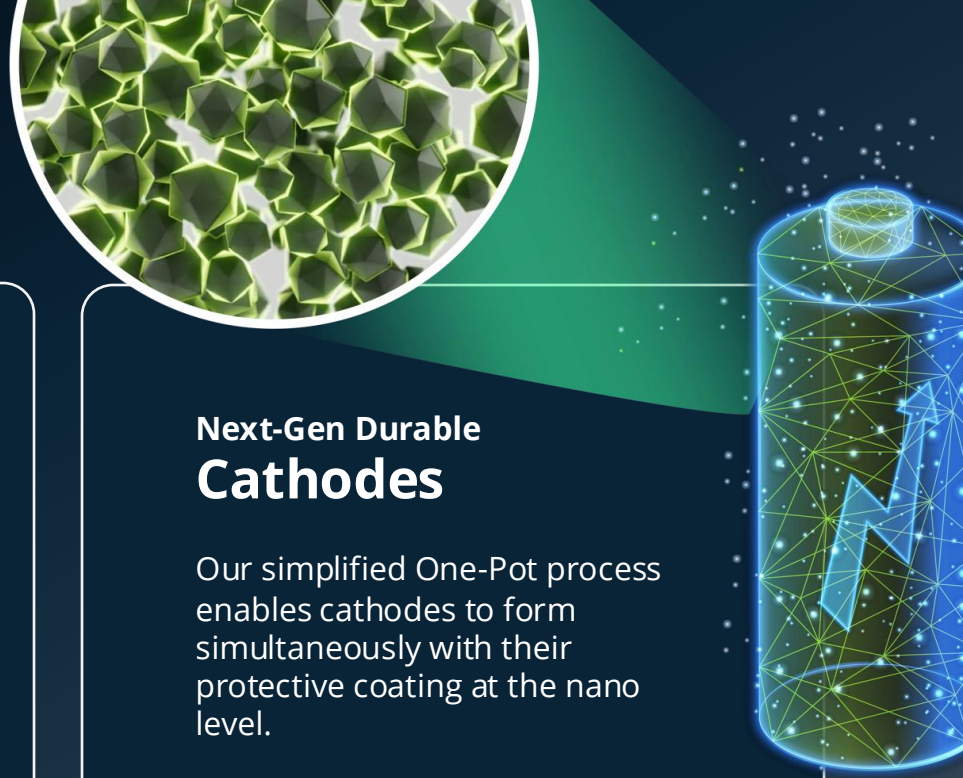
Sustainable Manufacturing

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 cathodes to form simultaneously with their protective coating at the nano level.

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

50-60% Less
GHG Emissions

80% Less
Water Usage

100% Less
Waste Streams

Reduced
Energy Usage

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Innovation Hub

Burnaby, BC, Canada

25,000 sf

LFP, NMC, LNMO & other CAM

40 Patents Granted & 55+ 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

✓ 200 tpa expanding to name plate capacity

✓ Derisks in full scale production intent equipment

✓ Optimization & training center for licensees & partners

✓ Product & plant qualification

✓ Drives offtake for small/large volume production & licensees

Partnerships

Carlo Valente, *CFO—Nano One* | **Alex Holmes,** *COO—Nano One*

Government Support

+US$12.9M 2024 Department of Defense

+C$20+M 2014–22

Partnerships around the supply chain

And planet.

Rio Tinto +US$10M 2022

CBMM

EURO MANGANESE

SUMITOMO METAL MINING +C$16.9M 2023

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worley

MINE

REFINE

CATHODE

umicore

BASF We create chemistry

RECYCLE

CELL

one

Lithium-ion Battery Supply Chain

RE-USE

PACK

APPLICATION

OEMs

A global growth strategy

Partnering with like-minded multi-national companies

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DELIVERING SUSTAINABLE CHANGE

Partnership: *Zoom In*

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

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.

worley.com/-/media/files/worley/investors/results-and-presentations/2024/wor-investor-day-presentation-may2024.pdf

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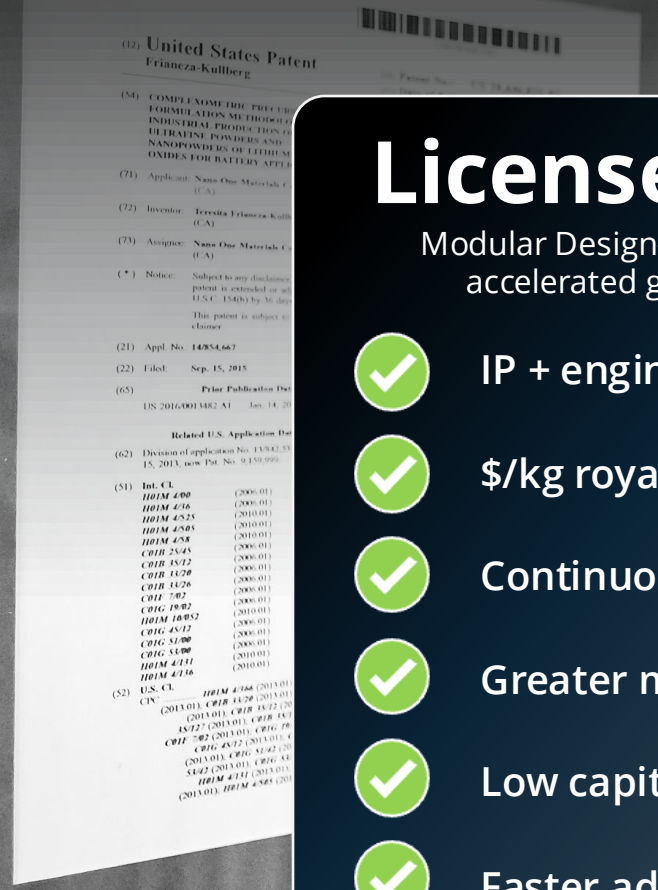
Diversified Revenue Streams

A Flexible Business Model

Nano One's Patent Wall 40 Patents Globally, 55+ pending



License Model

Modular Design-Once-Build-Many accelerated growth strategy

- IP + engineering + equip.
- $/kg 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
- Royalties

Licensing

Engineering design & facility CAM package for rapid deployment of One-Pot technology

Design-Once-Build-Many Global Growth Strategy

Jointly develop, market, and license CAM packages

- Nano One's One-Pot process
- IP Rights
- Modular 12.5ktpa line
- Key Proprietary Equipment
- Plant Layout
- Detailed Process Design

- Eliminate waste & custom engineering
- Reduce cost, risk, time to FID and permits
- Accelerate adoption & time to market
- Flexible siting
- Modular and scalable
- Address ESS & EV sectors globally

Changing How the World Makes **Battery Materials,** ***together***

worley
DELIVERING SUSTAINABLE CHANGE

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Production

Nano One Candiac

operational excellence

- 40 Patents Granted & 55+ Pending
- Only LFP pilot & team outside Asia
- World class know-how
- OEM certification knowhow (IATF ISO)
- Full scale equipment
- Product & validation
- 2000+ tpa launch pad

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Nano One, Candiac, Quebec

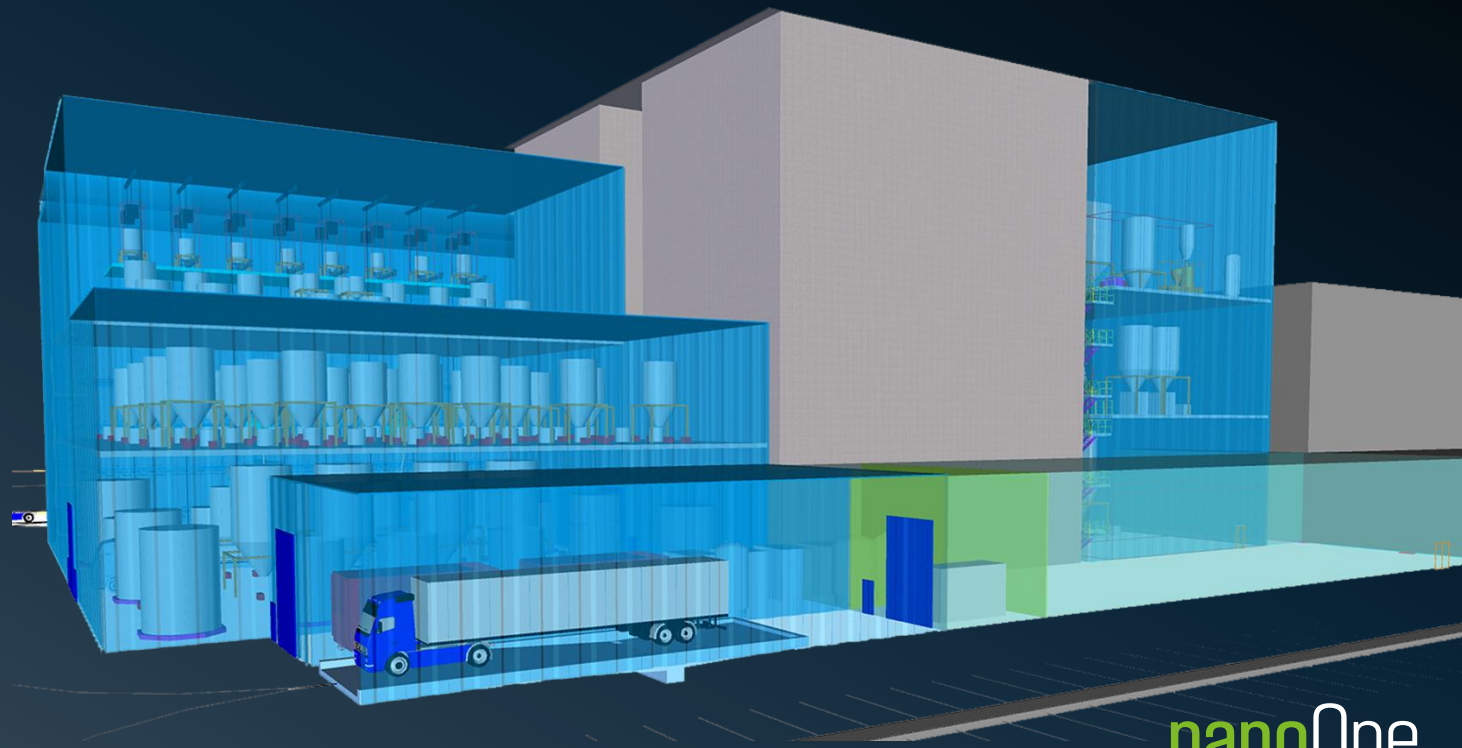
Joint Venture

LFP Development Project

FEL-3 for a first-of-a-kind 25,000 tpa LFP facility

Operating entity to be independent of Nano One

- License One-Pot Technology
- Nano One supports project to FID
- Offtake support from Candiac
- Training support from Candiac
- Joint Venture with partner



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Recent Progress

- **US Department of Defense Awards Nano One $12.9M USD**
  Supports capacity expansion at Candiac LFP production and Burnaby R&D facilities.
- **25,000 tpa LFP development project**
  Advancing site selection, feasibility study and partners.
- **Partnership agreement with Worley**
  Jointly develop, market and deploy CAM Packages for rapid deployment of Nano One's One-Pot process technology through licensing.
- **Repeat One-Pot trials**
  15m³ existing commercial scale & 2m³ pilot scale reactors.
- **LFP out for 3rd party qualification**
  Automotive, ESS, defense and industrial sector customers.
- **One-Pot conversion & ongoing optimization**
  Continued One-Pot trials, product and process optimization.
  FEL-3 (feasibility study) progressing.

Changing How The World Makes Battery Materials

Thank you

INNOVATIVE SOLUTIONS

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.

LEARN MORE
nanoOne.ca

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$121M (USD$89M) as of 2024-10-07
CAPITAL STRUCTURE	Issued and Outstanding: 111,291,982 as of 2024-10-07
BUSINESS MODEL	License – Royalty / Independent Production / Joint Venture.
PATENTS	40 in US, Canada, Japan, Korea, China, Taiwan and 55+ 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.