

Investor Presentation

January 2024

California Nanotechnologies Corp.

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Cal Nano is on a **mission** to bring next generation materials to market with cutting-edge technologies

We imagine a world in which our **advanced technologies** are used to make the most innovative products on this **planet** and **beyond**

Cal Nano In 2023: Setting the foundation for **growth**

Building on decades of successful R&D experience to grow into commercial-scale production

 **\$2.71M**

TTM¹ Revenue
(up 82% YOY)

 **135+**

Global customers who
partner with Cal Nano

 **9,500+**

Runs performed on proprietary
equipment for customers

8 Dedicated

Employees headquartered in
Los Angeles, California

2 Core

Technologies (cryomilling and SPS²)
driving new material innovations



Amounts are in USD unless otherwise stated
1. For TTM period ending November 30, 2023

2. Spark Plasma Sintering



One Process Patent Granted

Core Technology #1: **Cryogenic Milling**

A specialized grinding (attrition) process conducted in a cryogenic liquid environment of -190°C to reduce particle sizes

- 1. Particle Size Reduction**
Rapidly reduces particle size in materials that smear
- 2. Custom Alloys and MMCs**
Create unique materials by combining different
- 3. Material Properties Improvement**
See 2x increase in strength in certain applications like aerospace
- 4. Moisture, Oxygen or Heat Sensitive Materials**
Can process dangerous materials very effectively and safely



Historically Main Revenue Driver

Core Technology #2: **Spark Plasma Sintering**

A novel process that can rapidly create materials and components with unique properties that are not possible with traditional manufacturing techniques

1. Extremely Versatile

Compatible with many materials such as ceramics and alloys

2. Shorter Cycle Times

Up to 10x faster than traditional techniques

3. More Cost Effective

Energy savings of 80%+ compared to conventional sintering

4. Bonding and Functionally Graded Materials

Bond metals to ceramics for complex electronic components

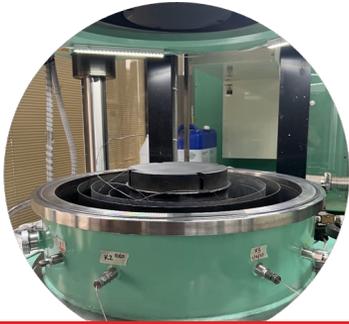
Why invest in **Cal Nano**?

A unique asset with proven profitability and opportunities for significant growth

- 1. High technology service provider**
Specialized manufacturing service provider in the growing field of advanced material processing
- 2. Growing SPS adoption in North America**
Adoption for Spark Plasma Sintering (SPS) core technology at inflection point which will support more customer demand
- 3. Onshoring of U.S. manufacturing**
Trend towards supply chain resiliency bringing manufacturing back to U.S. with attractive tax and grant incentives
- 4. Transition from R&D to commercial-scale**
Significant growth opportunity from move to include larger-scale commercial product manufacturing
- 5. Proven and profitable business model**
Company has successfully generated 60%+ gross margins, 25%+ EBITDA¹ margins and positive operating cash flow
- 6. High barrier to entry**
Over a decade of know-how (9,500+ trials) and technology infrastructure to successfully deliver on projects at scale

We help make the world's most **innovative products**

Our technologies deliver key material improvements that enable new products to get to market



Access to core material processing

Manufacturing



Provide in-house technologies

Equipment Sales



Extra material processing capabilities

Post-Production Services



Aftermarket service and support

Aftermarket Parts & Service

Cal Nano's **business model** addresses each part of the customer's advanced manufacturing supply chain



Ambri

Problem

Ambri came to Cal Nano with a problem involving a key component in their liquid metal batteries which was impacting life expectancy.

Solution

In 2022, Cal Nano worked extensively on R&D needed to create a solution to resolve this issue using specialized material processing and SPS capabilities. By entrusting Cal Nano, Ambri was able to achieve increased lifecycle for their product and work towards a scalable pathway towards increased production.

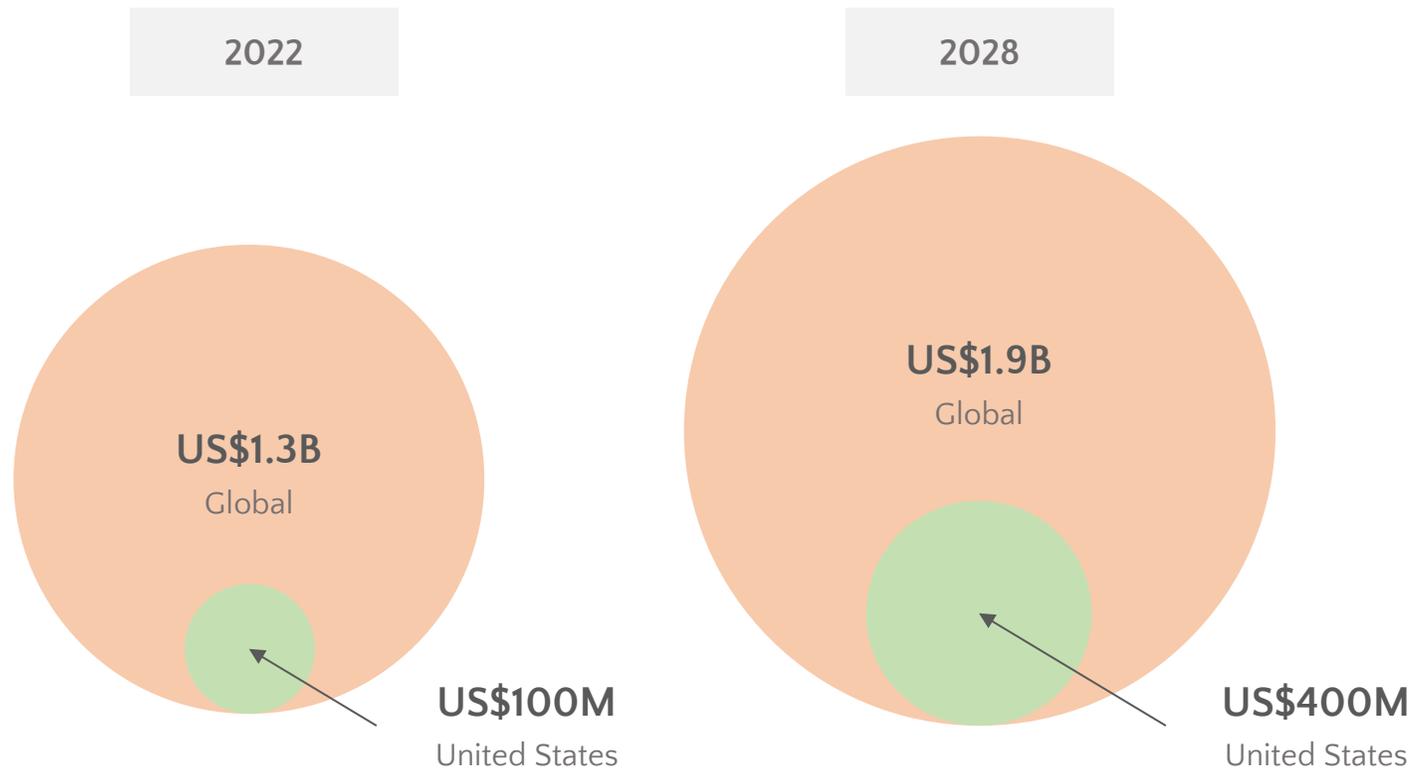
“Cal Nano has been a powerful partner, helping us develop next-generation components for our high temperature liquid metal batteries.”



David Bradwell, Co-Founder & CTO at Ambri

Leader within a **growing U.S. market**

Global Spark Plasma Sintering (SPS) Market (Equipment & Services)



Sources: Statistics MRC and Management Estimates

U.S. Manufacturing Onshoring

Push towards bringing manufacturing back to the U.S. will create demand for advanced manufacturing processes

Inflation Reduction Act (2022)

Tax credits and incentives to invest in clean energy infrastructure and technologies which require higher performant materials with SPS

Proven Capabilities in Growth Industries

SPS has proven effective with solar technologies, electric vehicles, carbon capture, thermoelectrics and next-generation batteries

Transition from Traditional Sintering

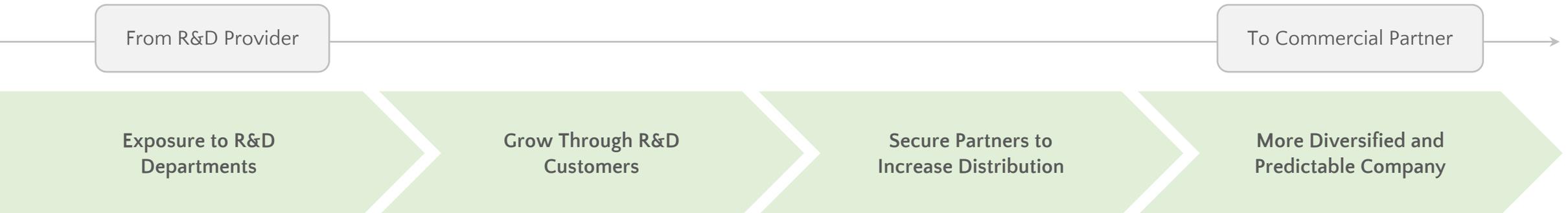
Traditional sintering techniques are less effective than SPS which will move the technology along adoption curve



Cal Nano's flywheel creates a **growth engine** for future traction and success

Growth strategy to become a more **valuable company**

Leveraging our profitable and expanding R&D base to become a commercial-scale partner



R&D Teams Depend on Cal Nano

Over 9,500 R&D trials completed for 135+ customers shows expertise and credibility with cutting edge R&D teams

Work on Latest Material Advancements

Cal Nano is exposed to next-gen material advancements which are pre-production

Growing Base of Customers

Core technologies are gaining exposure, increasing base of R&D customers to grow from as more researchers discover SPS and Cryomilling benefits

R&D Transitions to Commercial

Select customers transition to commercial-scale services which gives Cal Nano the opportunity to secure larger contracts



Strategic Partners Key to Scaling

Developed several partnerships to create distribution channels to sell Cal Nano services alongside complimentary partner offerings

Higher Quality, More Repeatable Revenues

Commercial partners provide Cal Nano with larger contract values and more predictable revenues, contributing to a stronger operating profile

Top institutions trust Cal Nano's **material expertise**



Low-Carbon Energy

High performance thermoelectrics, nuclear reactor components

Aerospace

High-temp ceramics for shielding, engine components or hypersonics

Cleantech

Cathode materials and magnetics for utility-scale batteries, biodegradable packaging, CO2 capture

Defense

Transparent ceramics, ultra-hard ballistic armors

Automotive

High volume disk brakes, rotors

A unique **service offering** in North America

Cal Nano's incentives and portfolio of services result in a unique market offering

	Cal Nano	Technology Manufacturers	National Labs/Universities
		  	 
Incentive	Sell Manufacturing Services	Sell Equipment	Provide R&D Support
R&D Service Offering	✓	✓	✓
Production Service Offering	✓	-	-
Cost Competitive	✓	-	-
SPS and Cryomilling Access	✓	-	-
Aftermarket Parts	✓	✓	-
Aftermarket Services & Training	✓	✓	-
Current SPS Capacity	1,000s parts/yr	Not Applicable	-
Current Cryomilling Capacity	10,000s kg/yr	Not Applicable	-
Trials Completed to Date	9,500+	-	Varies by Lab



Headquartered in Los Angeles County where all the core SPS and Cryomilling equipment and tooling is located

Strong leadership with deep materials expertise



Eric Eyerman
CEO & Director

Intimate knowledge of Cal Nano with journey from intern to CEO



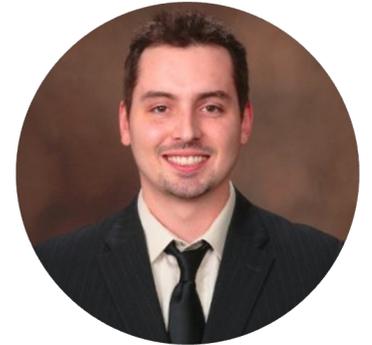
Spencer Song
VP of Operations

Welding and machining expertise, oversees all project execution



Brian Weinstein
VP of R&D

Machine shop focus with 2,000+ logged hours in SPS and Cryomilling



Chris Melnyk
Director of Business Development & Director

Returned Cal Nano insider with diverse expertise in industrials



Backed by a board with **diverse experience**



Roger Dent
Director

Capital markets and smallcap investing expert



Sebastien Goulet
Director

Operations and manufacturing know-how from multinationals



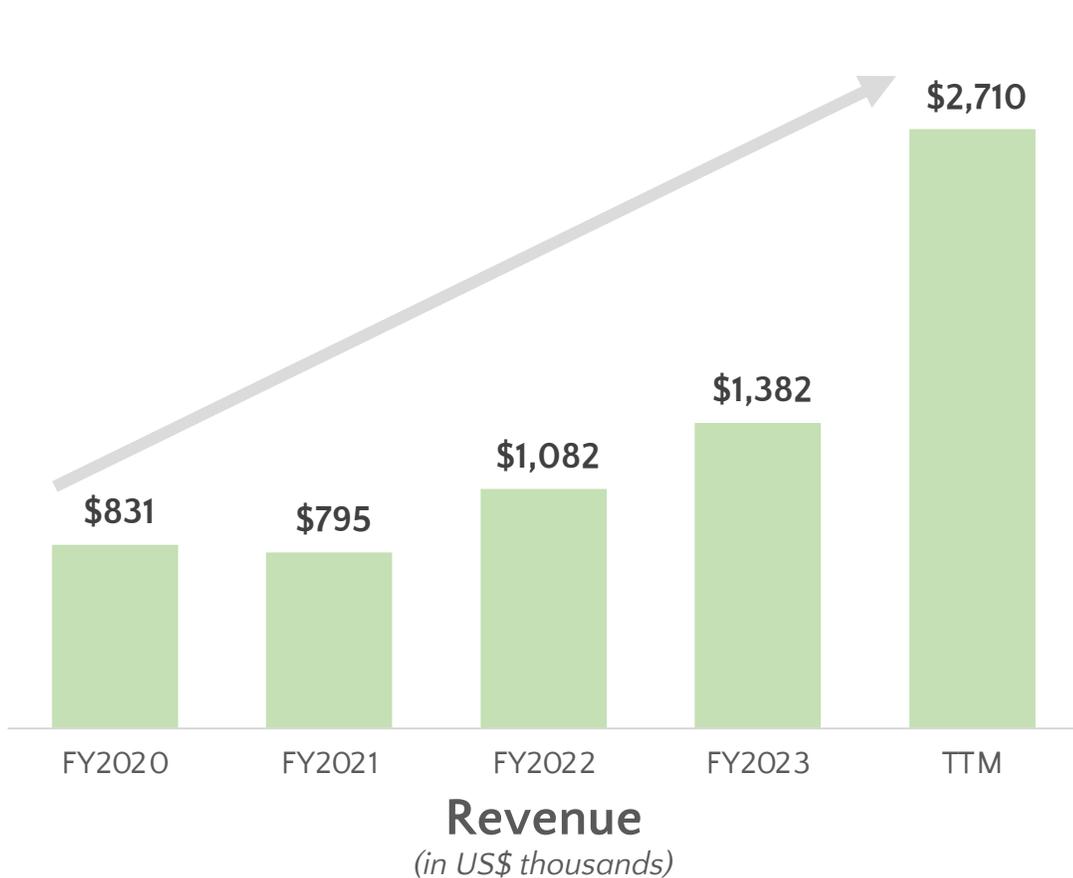
Dr. Enrique Lavernia
Director

World-leading professor and researcher in material science



Focus on **profitable growth** is driving **performance**

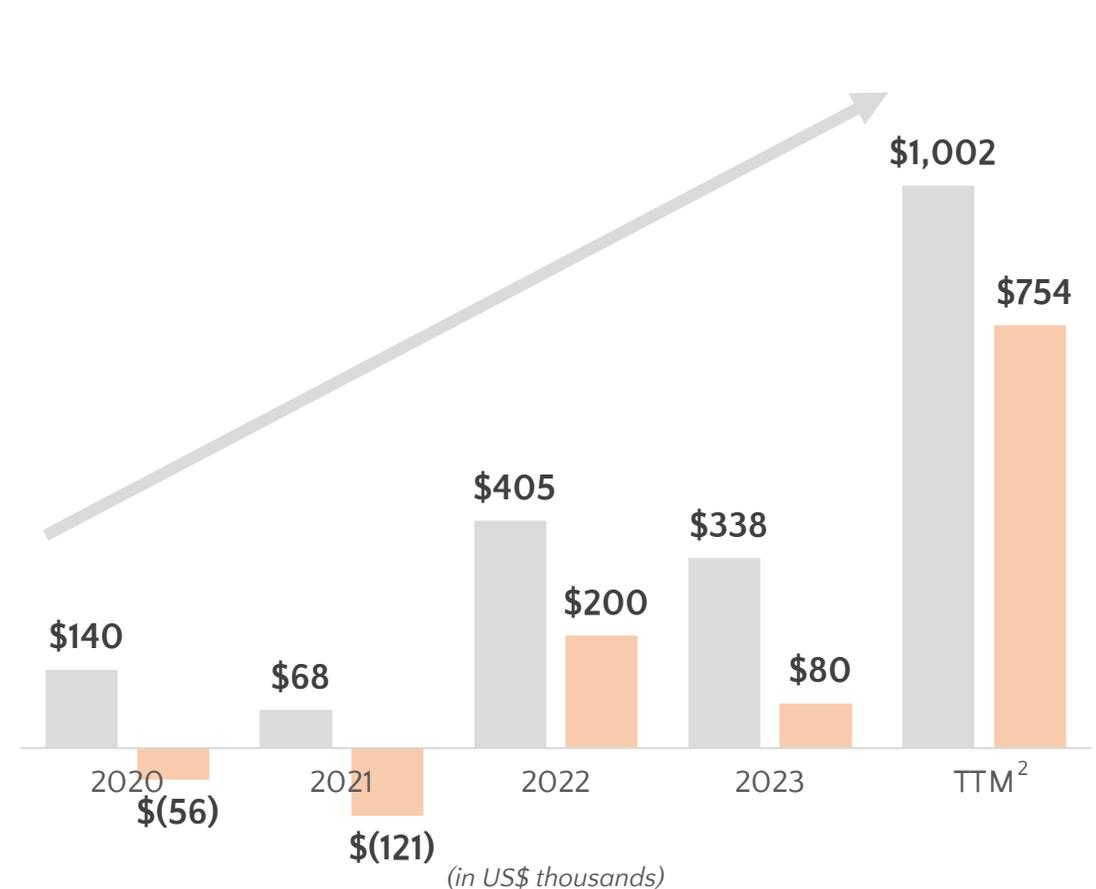
Cal Nano has grown revenues significantly while improving EBITDA¹ and net income profitability



Cal Nano's fiscal year end is February 28
1. Non-IFRS Measure

TTM for period ending November 30, 2023

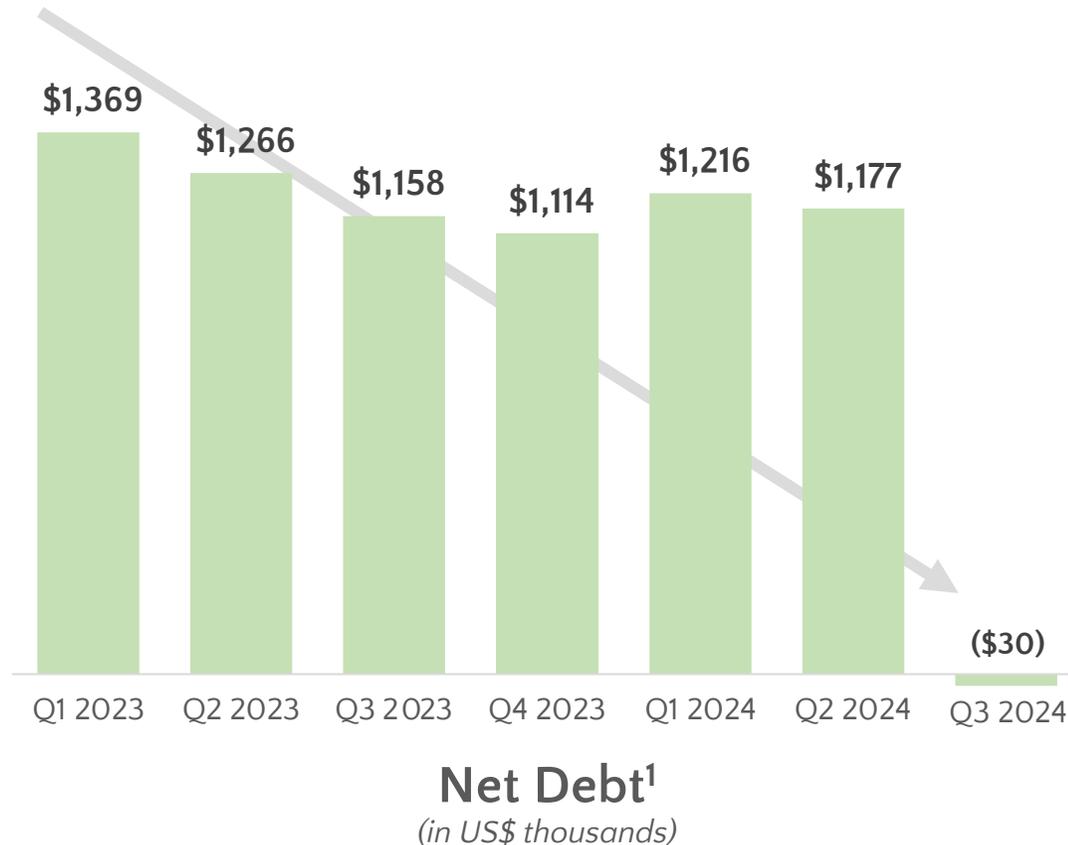
2. TTM EBITDA and net income includes US\$199K unrealized gain on purchase warrants



■ EBITDA ■ Net Income

Improving **balance sheet** with recent **initiatives**

Management committed to reducing its legacy outstanding debt balance



1. Non-IFRS Measure

As of November 30, 2023

Outstanding Debt	Maturity	Amount
Omni-Lite Industries Canada Inc. (7.5%)	30-May-25	\$ 849
Omni-Lite Industries Canada Inc. (4.3%)	-	\$ 250
Total		\$ 1,099

Recent Debt Payments

- Remaining US\$133K bank debt paid off by Q2/FY2023
- US\$220K in accelerated debt prepayments within TTM to Omni-Lite
- Debt conversion valued at CA\$180K concurrent with CA\$1.5 million non-brokered private placement in Q3/FY2024
- Subsequent to Q3/FY2024, another US\$120K accelerated debt payment to Omni-Lite

Capitalization Table and Insider Ownership

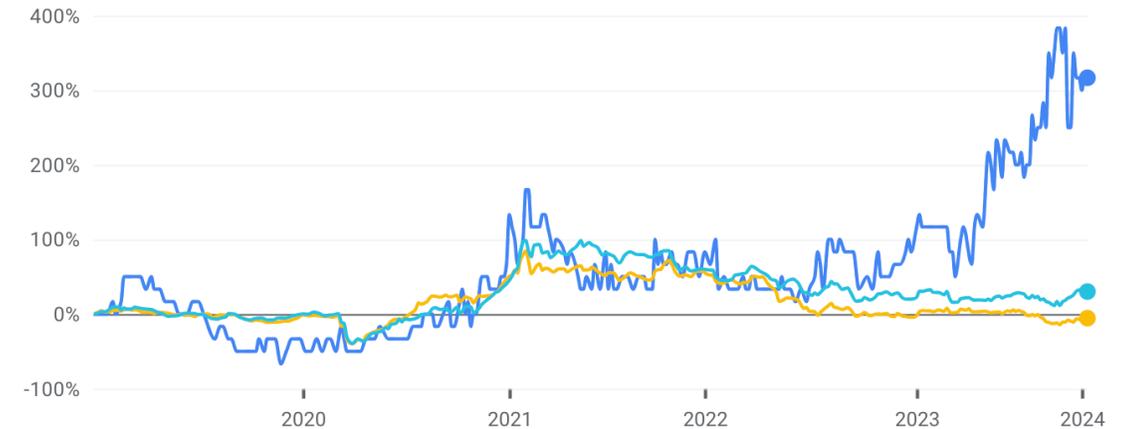
California Nanotechnologies Corp. – TSXV: CNO, OTC: CANOF

Outstanding Shares	43,378,750	
Stock Options	4,885,000	
Warrants (Exercisable at CA\$0.25)	5,000,000	
Fully Diluted Shares	53,263,750	
Market Capitalization¹	CA\$10.8M	US\$8.0M
Fully Diluted Market Capitalization¹	CA\$13.3M	US\$9.9M

Insider Ownership	Shares	% Outstanding
Omni-Lite Industries Canada Inc.	7,204,570	16.6%
Roger Dent	3,881,447	8.9%
Patrick Berbon	3,208,164	7.4%
Eric Eyerman	2,432,220	5.6%
Other Insiders	1,061,463	2.4%
Total	17,787,864	41.0%

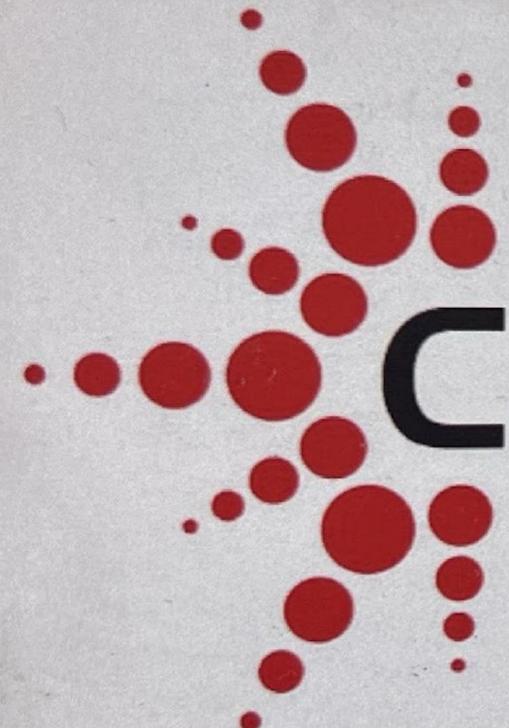
¹ As of January 14, 2024, at a closing price of \$0.25

Cal Nano Relative Performance to Benchmark Indices



California Nanotec...	\$0.25	+\$0.19	↑ 316.67%
S&P/TSX Venture C...	562.53	-32.98	↓ 5.54%
LD Micro Index (US...	2,773.79	+641.73	↑ 30.10%

TSXV:CNO | OTC:CANOF



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