



Investor Presentation

July 2024

California Nanotechnologies Corp.



calnanocorp.com

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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**

We help companies with their **material science challenges**. By partnering with Cal Nano, our clients develop and produce materials for cutting-edge applications, enhancing material properties such as strength and lightness.

Examples of Applications


Rocket Engine Components
Nuclear Reactor Materials
Military Armor

Deep Cycle Battery Parts
Specialized Conductors
Thermoelectrics

Automotive Brakes
Metal Alloy Disks
Shoe Spikes

Cal Nano In 2024: Leverage **investments** for **growth**

Aiming to scale manufacturing services in new Santa Ana facility while continuing customer wins

 **\$4.6M**

TTM¹ Revenue
(up 193% YOY)

 **150+**

Global and local customers
who partner with Cal Nano

 **12,500+**

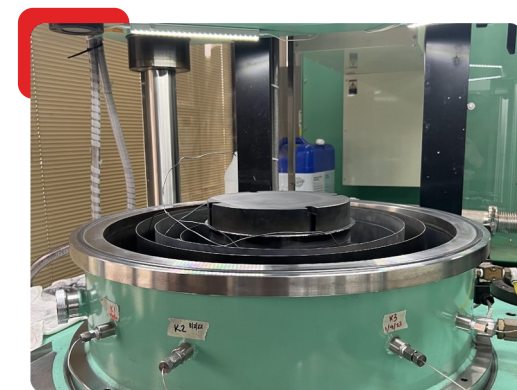
Runs performed on proprietary
equipment for customers

12 Dedicated

Employees headquartered in
Los Angeles, California

2 Core

Technologies (SPS² and Cryomilling)
driving new material innovations



Amounts are in USD unless otherwise stated
1. For TTM period ending May 31, 2023

2. Spark Plasma Sintering



One Process Patent Granted

Core Technology #1:

Cryogenic Milling

A specialized grinding/mixing process conducted in a cryogenic liquid environment of -190°C used to make nanomaterials & high-performance alloys

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



Services and Equipment Sales

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

A novel process that turns powder into solid parts. SPS rapidly creates 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, 30%+ EBITDA¹ margins and positive operating cash flow

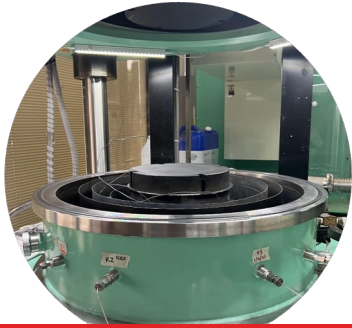
6. **High barrier to entry**

Over a decade of know-how (12,500+ trials) and technology infrastructure to successfully deliver on projects at scale

1. Non-IFRS Measure

Our business model helps make **innovative products**

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



Access to core material processing

Selling access to key technologies (SPS and Cryomilling) to manufacture customers' key components

Includes post-processing production services

Manufacturing Services

87% of FY2024 revenues



Provide in-house technologies

Selling the key technologies for customers to use in-house

Includes aftermarket service & support

Equipment Sales

13% of FY2024 revenues

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

Growing market supported by **several key trends**



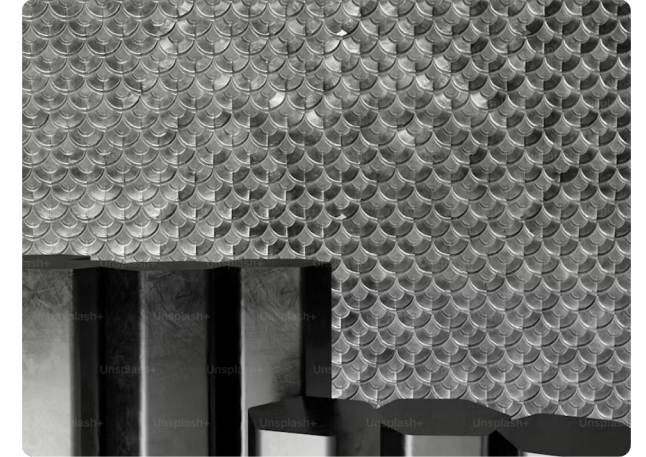
U.S. Manufacturing Onshoring

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



Transition from Traditional Sintering

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

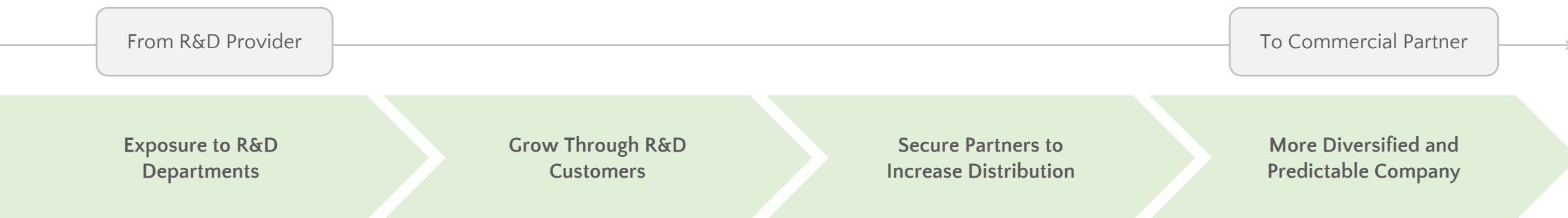
Cal Nano is well positioned to benefit from these trends from its **first mover advantage** and **expertise**



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 11,500 trials completed for 150+ 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



Higher Quality, More Repeatable Revenues

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

Strategic Partners Key to Scaling

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

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	12,500+	-	Varies by Lab



Cerritos Manufacturing Facility

Original 3,500 sq. ft manufacturing facility co-located with sister company Omni-Lite Industries, hosts SPS machines, a cryomill, and associated aftermarket parts and service



Santa Ana Facility (Under Development)

New 19,500 sq. ft advanced materials manufacturing facility which will host the largest commercially available SPS machine (MSP-5) in North America along with larger cryomills, and warehousing

Two flagship facilities located in Los Angeles County for core **SPS** and **Cryomilling** equipment

Strong leadership with deep materials expertise



Eric Eyerman
CEO & Director

Intimate knowledge of Cal Nano with journey from intern to CEO



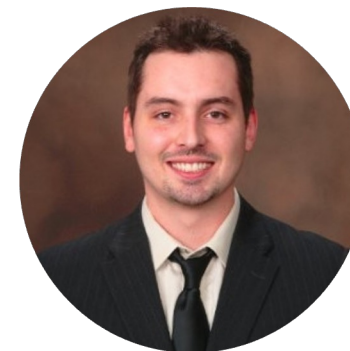
Spencer Song
VP of Operations

Cryomilling and machining expertise, oversees all project execution



Brian Weinstein
VP of R&D

Spark Plasma Sintering 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



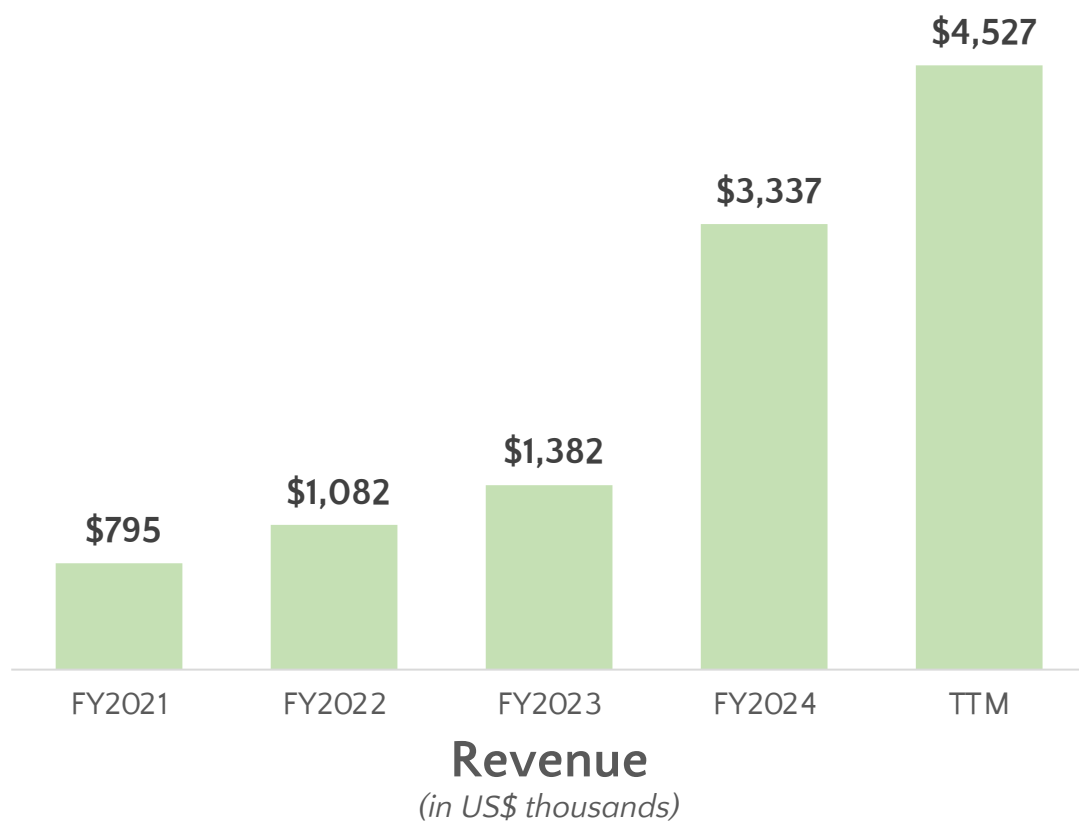
Dr. Enrique Lavernia
Director

World-leading professor and
researcher in material science



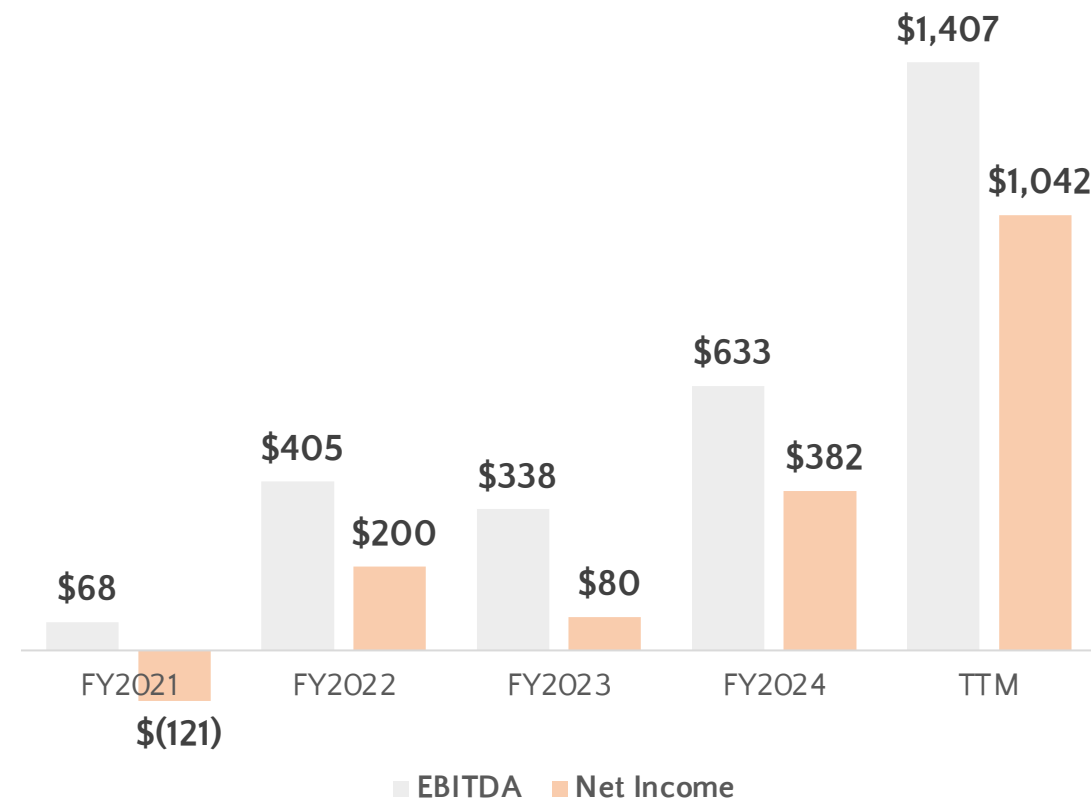
Focus on **profitable growth** is driving **performance**

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



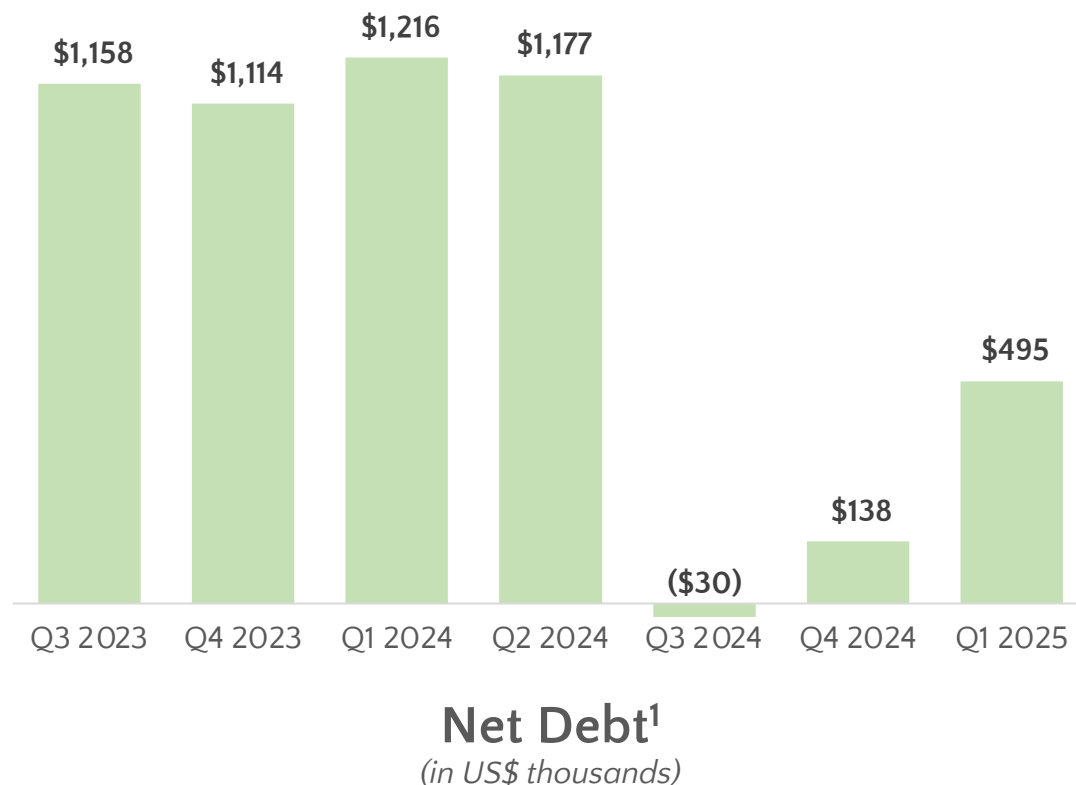
Cal Nano's fiscal year end is February 28
1. Non-IFRS Measure

TTM for period ending May 31, 2024



Improving **balance sheet** while **executing growth**

Management committed to reducing its legacy outstanding debt balance



1. Non-IFRS Measure

As of May 31, 2024

Outstanding Debt	Maturity	Amount
Omni-Lite Industries Canada Inc. (7.5%)	30-May-25	\$ 729K
Omni-Lite Industries Canada Inc. (4.3%)	-	\$ 250K
Total		\$ 979K

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\$170K in debt payments to Omni-Lite

Capitalization Table and Insider Ownership

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

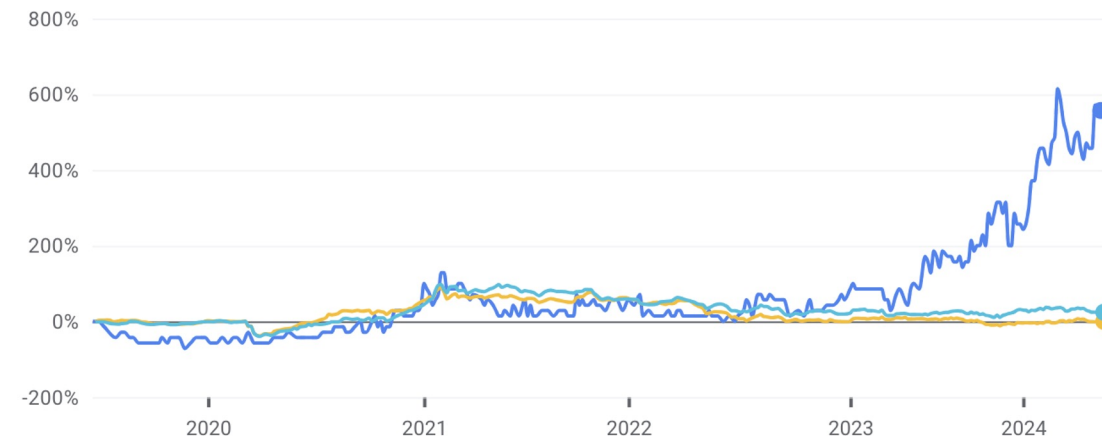
Outstanding Shares	44,306,250	
Stock Options	4,200,000	
Warrants (Exercisable at CA\$0.25)	3,888,900	
Fully Diluted Shares	52,395,150	
Market Capitalization¹	CA\$20.4M	
Fully Diluted Market Capitalization¹	CA\$24.1M	

Insider Ownership	Shares	% Outstanding
Omni-Lite Industries Canada Inc.	7,204,570	16.3%
Roger Dent	3,881,447	8.8%
Patrick Berbon	3,208,164	7.2%
Eric Eyerman ²	2,432,220	5.5%
Other Insiders	1,061,463	2.4%
Total	17,787,864	40.1%

1. As of July 9, 2024, at a share price of \$0.46

2. Includes shares related to a loan agreement from an issuance of units (October 30, 2023) with Eric Eyerman, CEO & Director

Cal Nano Relative Performance to Benchmark Indices



California Nanotec...	\$0.46	+\$0.39	↑ 557.14%
S&P/TSX Venture C...	576.71	+0.68	↑ 0.12% ×
LD Micro Index (US...	2,662.82	+520.30	↑ 24.28% ×



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