CVD Equipment Corporation

enabling tomorrow's technologies™

Investor Presentation

December 12th, 2023

NASDAQ: CVV

Safe Harbor Statement

This presentation contains “forward-looking statements”, within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995, as amended, that are based on management’s expectations, estimates, projections, and assumptions. Words such as “believes,” “anticipates,” “expects,” “estimates,” “plans,” “intends,” “will,” and variations of these words and similar expressions are intended to identify forward-looking statements. Forward-looking statements include, but are not limited to, those regarding anticipated growth and trends in our businesses and markets, industry outlooks and demand drivers, our investment and growth strategies, our development of new products and technologies, our business outlook for current and future periods, and other statements that are not historical facts. These statements and their underlying assumptions are subject to risks and uncertainties and are not guarantees of future performance.

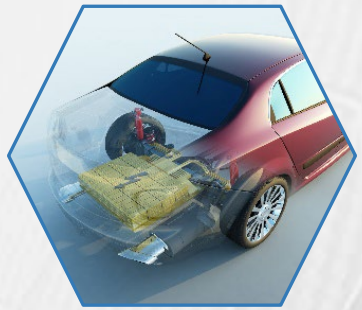
Factors that could cause actual results to differ materially from those expressed or implied by such statements include, without limitation: competition in our existing and potential future product lines of business, including our PVT150 and PVT200 systems; our ability to attract and retain key personnel and employees; our ability to obtain financing on acceptable terms if and when needed; uncertainty as to our ability to develop new products for the high power electronics market including our plan to develop a PVT200 to grow silicon carbide crystals for 200mm wafters and epitaxy equipment for silicon carbide waters; uncertainty as to our future profitability; uncertainty as to our ability to adequately obtain raw materials and components from foreign markets in light of geopolitical developments; and the continued effect of the COVID-19 pandemic on our business and operations (including with respect to supply chain disruptions), and those of our customers, suppliers and other third parties and other risks and uncertainties described in our SEC filings on Forms 10-K, 10-Q and 8-K, and from time-to-time in our other SEC reports. All forward-looking statements speak only to management’s expectations, estimates, projections and assumptions as of the date of this presentation. The Company does not undertake any obligation to update or publicly revise any forward-looking statements to reflect events, circumstances, or changes in expectations after the date of this presentation.

About CVD Equipment Corporation

We leverage 40+ years of company experience in providing industry leading chemical vapor deposition and thermal process systems

We focus on ***enabling tomorrow's technologies™*** through innovation, vertical integration of design, manufacturing and process optimization

We design, develop, and manufacture process equipment solutions for production, R&D and pilot applications



Our products include a complete array of turnkey solutions serving the High Power Electronics, EV Battery Materials / Energy storage, Aerospace & Defense and Industrial Material markets

We are located on Long Island and in Saugerties, New York, USA

CVD Equipment Corporation

CVDE designs and manufacturers a broad range of chemical vapor deposition, thermal processing and physical vapor transport equipment to High Power Electronics, Energy Storage, Aerospace & Defense and Industrial Materials markets

CVDE's Value Proposition:

- 40+ Years Providing Equipment & Process Solutions
- High Quality Components & Systems Built in the USA
- In-House Process Development Laboratory
- Proprietary Software & Control System Platform
- Vertically-Integrated Manufacturing
- Global Account Management and Customer Engagement
- High Touch Customer Service

About CVDE:

- Manufacture complete turn-key systems
- Service customers with demanding material performance requirements
- Provide relentless commitment to customer satisfaction
- Deliver competitive advantage to our customers through innovation, market focus and operational excellence

40+ YEARS IN PROCESS EQUIPMENT

NASDAQ: CVV

~130 Employees Worldwide

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CVD Equipment Corporation At a Glance

Investment Highlights

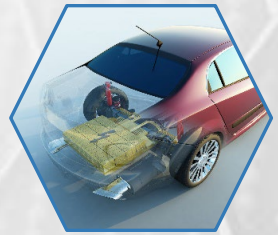
- ✓ Uniquely positioned to address massive high-growth Silicon Carbide (SiC) market driven by global EV adoption
- ✓ For the power electronics market we provide reliable and precise equipment and solution systems to the SiC boule and wafer manufacturing industry
- ✓ Proven track record of customer engagement and satisfaction through on-time delivery and customer support
- ✓ Operating in key markets that have significant growth opportunities
- ✓ Seasoned Management Team with deep global manufacturing expertise

Key Markets

High-Growth

High Power Electronics
Silicon Carbide (SiC)

Emerging



EV Battery Materials/
Energy Storage

Legacy

Aerospace & Defense,
Industrial Materials

Key Products Overview

PVT200™
SiC Crystal
Growth System

PowderCoat 1104™
Grows Silicon Nanowires on
Carbon Nanoparticles

CVD/CVI Systems for Aerospace, Industrial
CMC Material Deposition

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CVD's Transformation

1.0 Creation and Validation

Founded to Focus on Designing and Manufacturing Key Process Equipment Solutions

- 40+ years of developing deep relationships with blue-chip industry leaders, innovative start-ups and leading research institutes
- Demonstrated wealth of IP and know-how in semiconductor market
- Decades of experience in compound semiconductor applications including developing SiC Physical Vapor Transport (PVT) systems

2.0 Transformation

Strategically Repositioning to Serve High-Growth Markets

- Reoriented strategy for growth and return to profitability with change in management CEO Manny Lakios and CFO Richard Catalano
- Transitioned focus from Design Make-to-Order, to Make-to-Order, with objectives of increased revenue, improved gross margin and ROI
- Increased R&D investment on high-quality, reliable tools that serve rapidly growing markets including SiC Epitaxy (Epi)
- Renewed emphasis on customer engagement with expansion of Sales & Marketing initiatives

3.0 Industry Leader

Established Leader with Growing Market Share

- Robust customer engagement to deliver best-in-class tools to dominant industry players
- Continue to expand foothold with several industry leaders by replacing existing incumbents and adding to capacity
- Continued investment in R&D growing the portfolio offered within the markets

1982 — 2020 — 2021 — 2023 — 2024 — 2030+

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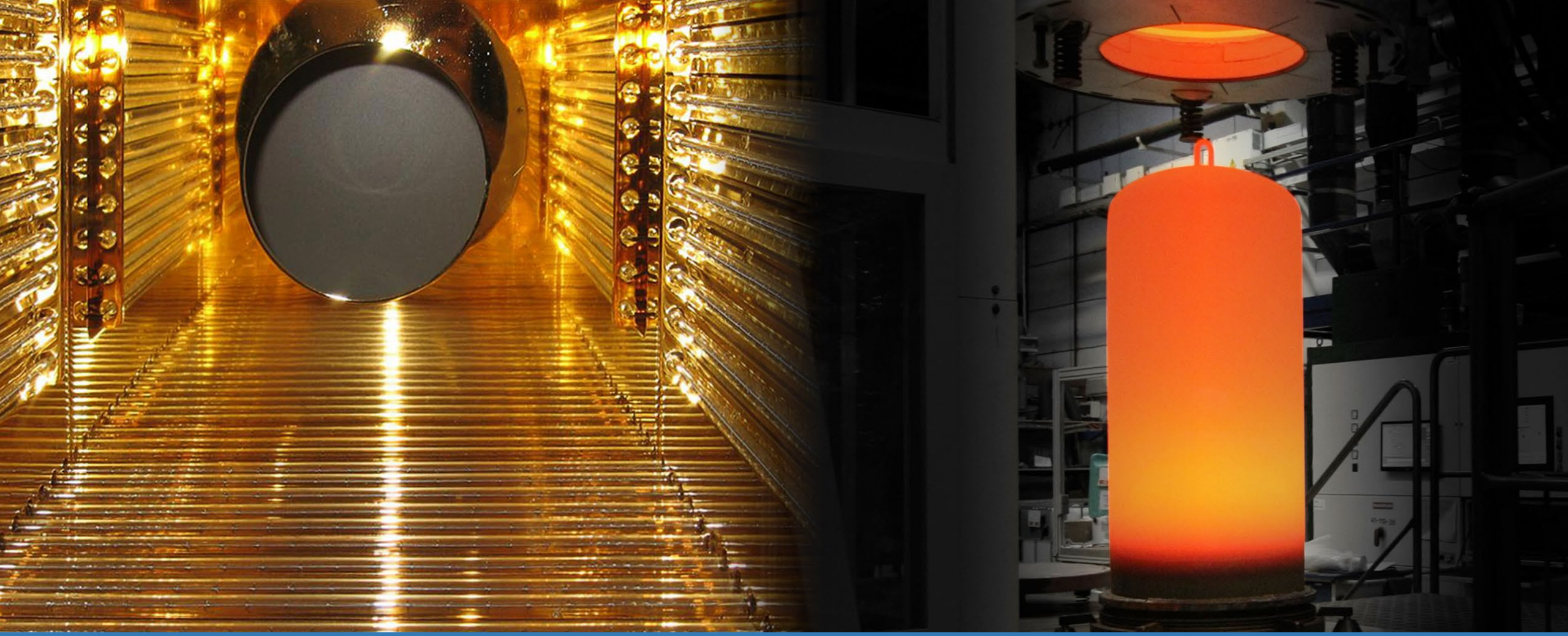
Financial and Operational Snapshot

- 2021 Revenue: $16.4 million / 2022 Revenue: $25.8 million / TTM 9/30/23 Revenue: $27.2 million
- Cash and cash equivalents at 9/30/23: $14.3 million
- Debt outstanding at 9/30/23: $0.4 million equipment loan
- Two facilities in New York: Central Islip – Headquarters, R&D and manufacturing - 130,000 sf and Saugerties – Manufacturing and administration – 22,000 sf
- Our CVD Equipment business, based in Central Islip, is a vertically aligned manufacturing facility - from machine centers to final test
- Our SDC business, based in Saugerties, provides a complete line of gas storage and gas delivery systems to both outside customers and as key components to systems manufactured by our CVD Equipment business
- Divestiture of non-core businesses in 2023: Tantaline sold in Q2 and MesoScribe wind down announced in Q2



Market Overview

Our Targeted Markets: Focused on SiC High-Growth Market

High-Growth

High Power Electronics Silicon Carbide (SiC)

Silicon Carbide Power Electronics provide higher power density and higher efficiency than silicon-based technologies, enabling faster charging times and expanded EV range.

Emerging

EV Battery Materials/ Energy Storage

Electric vehicles are driving demand for advanced batteries. Addition of silicon to the carbon powder of the battery anode via CVD coating and infiltration process equipment improves the performance and efficiency of the battery.

Legacy

Aerospace & Defense, Industrial Materials

Demand from OEMs for Ceramic Matrix Composite materials (CMCs) for high temperature and improved efficiency in gas turbine engines. High chemical resistance and thermal stability properties for industrial coating applications.

Multi-Market Growth Opportunity, 2024 Focus on SiC High Growth

High-Power SiC

Global SiC device market for 2024 is projected at **$5.3B,** reaching **$22B** by 2030 with CAGR of **27%**[1]

SiC Power Electronics in EVs accelerating the demand for SiC material. To meet the estimated SiC wafer demand, annual wafer supply is expected to reach **8M** by 2030[1]

Opportunity to continue providing Physical Vapor Transport (PVT) systems for SiC boule growth for wafer production

EV Battery

Global EV battery market in 2030 is expected to reach **$276B,** growing at **23% CAGR** from **$64B** in 2023[2]

Estimated EV sales anticipated to reach over **40M** in 2030[3]

Demand for silicon anodes for EV batteries is expected to rise. An estimated **625,000 metric tons** of Si anode material over the next 7 years is needed to meet market demands, reaching an annual capacity of 180,000 metric tons by 2030[4]

Opportunity to continue providing CVD systems used to coat C/Si powders for use in EV battery anodes

Aerospace/ Defense/Industrial

$21.6B Global CMC market by 2028, estimated to **grow at a CAGR of 10.5%**[5]

Global SiC Coating Market is growing at **21.5% CARG** from **$343M** in 2022, projected to reach **$1.1B** in 2028[6]

Opportunity to continue providing CVI systems for CMC gas turbine engine components and applications in hypersonics, as well as CVD systems for SiC industrial coatings

[1] SiC and Shovel Approach Silicon Carbide Supply/Demand Update William Blair Equity Research 2023
[2] https://www.precedenceresearch.com/electric-vehicle-battery-market
[3] Global EV Outlook 2023 – Analysis – IEA ; Global EV Outlook 2023: Catching up with climate ambitions (windows.net)
[4] https://www.bloomberg.com/news/articles/2023-07-04/porsche-taycan-ev-battery-parts-maker-daejoo-sees-growing-silicon-anode-market
[5] https://www.marketsandmarkets.com/Market-Reports/ceramic-matrix-composites-market-60146548.html
[6] https://www.benzinga.com/pressreleases/23/09/34409707/silicon-carbide-coating-market-insights-report-2023-2030-120-pages-report

Product and Technology

High Growth CVD SiC Wafer Production for High Power Electronics

End-User Applications

EV Charging

EV Motor Power Conversion

Power Grid Transmission

Process Solutions

PVT 150 mm SiC Crystal Growth System (2022)

PVT 200 mm SiC Crystal Growth System (2023)

SiC Epi Layer (2024)

Key CVD Strengths

Temperature, Pressure and Overall Process Control

Process Uniformity and Repeatability

Safety and Control System

Focus on Customer Cost of Ownership

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State-of-the-Art Equipment Addressing SiC Wafer High-Growth Market

CRYSTAL GROWTH STEPS

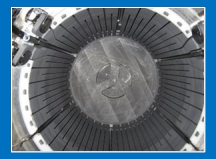
Crucible Charging → Crystal Growth → Annealing → **Bulk Crystal**

2022: Launched PVT150™ Crystal Growth System
2023: Launch of PVT200™ Crystal Growth System
2024: Planned Launch of SiC Epi System

PVT 150™

PVT-150™ SiC Crystal Growth System launched in 2022, **PVT-200™** launched in 2023

SiC Epi Single Wafer System planned launch 2024



150 mm & 200 mm SiC Boule Annealing Furnace
Pending market analysis 2025

WAFER PRODUCTION

OD Grinding → X-Ray Orientation → Flat Grinding → Multi-Wire Saw → Lapping/ Grinding → CMP Polishing → Wafer Cleaning → Wafer Inspection → **SiC Epi Layer**

CVD Positioned To Take Advantage of Key Industry Trends over next 1-2 years[1] with expanding internal capacity

- Shift from 150 mm to 200 mm SiC manufacturing to reduce device costs
- Improve SiC quality and uniformity to increase yield and reduce costs

Present Capacity: 12 Systems/Month, Potential Capacity: 25 Systems/(potential annual capacity up to 300 systems)

[1] Goldman Sachs, "The Green Technology Cycle SiC" Takayama et. Al., 24 JUNE 2022

Crystal Growth- Physical Vapor Transport Systems

PVT150™ / PVT200™ Go To Market Launch

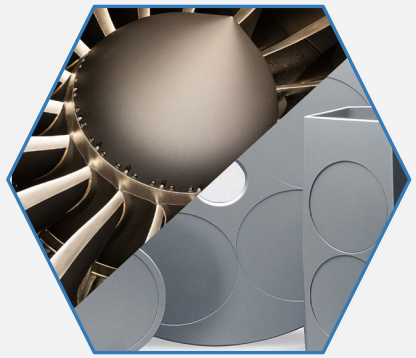
- PVT R&D System: 2011
- PVT150™ launched & installed 30 systems – 2022/2023
- PVT200™ launched – 2023 Q3

Differentiating Features and Options

- Robust Production System with Enhanced Process Controls
  - Temperature Control +/- 0.5°C @2500°C
  - Pressure Control +/- 1%
  - Enhanced Process Monitoring Control System
- Time to market, internal vertical manufacturing yields 6-month lead time
- PVT150™ upgradeable to 200 mm boule diameter

Legacy CVD/CVI for Aerospace & Defense and Industrial Markets

End-User Applications



CMC Engine Components

Hypersonics

Graphite susceptors with silicon carbide coating

Process Solutions

Production Bond Coat Systems

R&D and Production CVI Furnace

Production Fiber Tow Coating Systems

Key CVD Strengths

CVD/CVI Furnace Process Chamber: 62” ID / 77” H

Precise temperature control up to 1600°C ± 7°C

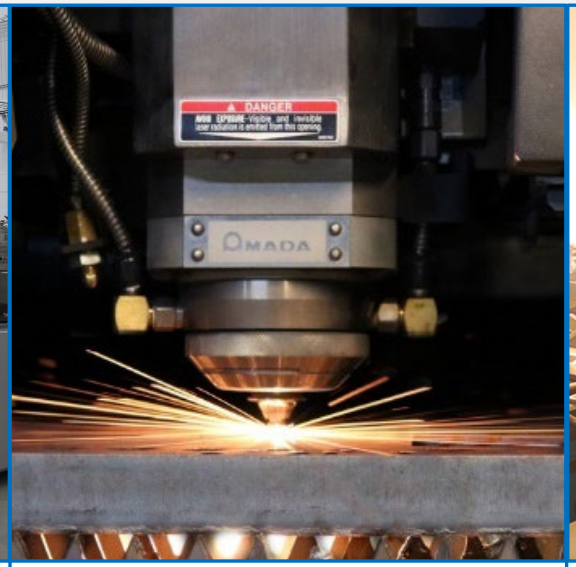
Patented fiber handling with precise speed & tension control

Vertically Integrated Manufacturing - Built in the USA

Applications Lab

New materials, coatings and processing techniques through CVD's Application Laboratory

Innovative carbon (CNT, graphene) products for energy storage, sensing and biomedical devices



Manufacturing

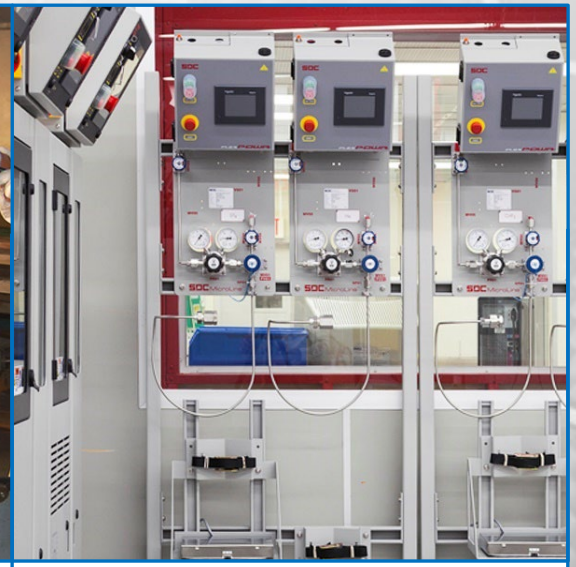
CVD has expanded its internal manufacturing capabilities in 2022 with new machining centers

Vertically-integrated, >95,000 ft^2 of total manufacturing space

Quartzware

Our quartzware manufacturing facility can produce prototype designs with rapid turnaround

Substrate paddles, wafer boats, process gas injectors, process tubes, quartz bubblers, bell jars, etc.



SDC® Gas Storage & Chemical Delivery Systems

Manufacturer of ultra-high purity gas and chemical delivery systems for the semiconductor industry as well as in microelectronics, nanomaterial production and aerospace markets

Vertical integration gives CVD a competitive advantage by reducing cost and certainty of lead times

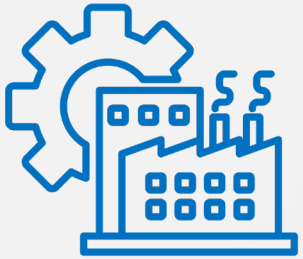
CVD Focus & Investment To Support The Market Growth Opportunity

Five Point Initiative

1

Grow market share through increased investment in sales and marketing efforts in all targeted markets

2



Expand manufacturing capacity and capability within existing facilities to accommodate potential for >$125M annual revenue

3

Diversify manufacturing facilities to drive redundancies, a requisite to become sole sourced supplier

4

Innovation of new products including PVT200 and SiC EPI for high power electronics and advanced CVD/CVI for Aerospace and Industrial within served customer market

5

Build out Application Lab for Process development to accompany equipment and "One Touch" customer support

Seasoned Executive Team

Manny Lakios

President & Chief Executive Officer

- Appointed President and CEO of CVD January 2021
- Previously President and CEO at Sensor Electronic Technology, COO Imago Scientific, President Process Equipment Veeco
- Over 35 years of experience serving the aerospace, semiconductor, data storage, UVLED and optical device industries and holds multiple patents in equipment technology

Richard Catalano

Vice President & Chief Financial Officer

- CFO of CVD since August 2022
- Previously an audit partner at KPMG
- Served as leader of KPMG's Metro NY Healthcare and Life Sciences Practice and has over 35 years of experience as an audit professional

Max Shatalov

Vice President of Engineering & Technology

- Joined CVD as VP of Engineering and Technology in April 2018
- Previously VP of Technology at Sensor Electronic Technology Inc.
- Over 20 years of experience in semiconductor research and devices, currently holding 120+ US patents

Jeff Brogan

Vice President of Sales & Marketing

- VP of Sales & Marketing for CVD March 2021
- Previously President & CEO of MesoScribe Technologies Corp.
- Over 25 years experience in strategic sales & technology management, advanced research & technology development, currently holding multiple US patents

Warren Cheesman

Vice President of Manufacturing Operations

- VP of Manufacturing Ops at CVD since October 2022
- Previously VP of Engineering at iON Technology Solutions
- Over 25 years of management experience in the semiconductor, medical device and defense equipment sectors

CVD Equipment Corporation

Thank You

PVT200™ - Physical Vapor Transport System

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