

Annual Shareholders Meeting

June 25th 2021

Innovation with operational excellence drives sustainable growth with world class customers in high growth markets



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Vicor is in its "quiet period" and will not comment on current or anticipated financial or operational performance for Q2 2021.

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Today's agenda

- Introductions
- Official business meeting
- Management presentations
- Stockholder Q&A



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Introductions: Independent Directors

Samuel J. Anderson*

- Chief Executive Officer, IceMOS Technology Ltd.
- M. Michael Ansour**
 - Managing Partner of March Partners LLC
- Jason L. Carlson*
 - Chief Executive Officer, congatec AG
- Andrew T. D'Amico
 - General Counsel for Intellectual Property Matters for Vicor Corporation
- Estia J. Eichten*
 - Senior Scientist, Fermi National Accelerator Laboratory
- * Member, Audit Committee & Compensation
- ** Nominee

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Introductions: Inside Directors

- Philip D. Davies, Corporate Vice President
- Michael S. McNamara, Corporate Vice President
- Claudio Tuozzolo, Corporate Vice President
- Patrizio Vinciarelli, Chief Executive Officer
- James F. Schmidt, Chief Financial Officer *
 - -* To be appointed at a Board of Directors meeting, immediately following the Annual Shareholders Meeting, in which the size of the Board will be increased to ten. James A. Simms, the former Chief Financial Officer, is not standing for re-election.



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Introduction: James F. Schmidt, Chief Financial Officer

- 35 Years at Analog Devices including leadership positions in Finance, Engineering, Operations & Sales
- BS Chemical Engineering, MBA
- Areas of expertise: Financial Management, Cost Accounting / Pricing, Business Processes, Systems Integration, Semiconductor Manufacturing, Distribution

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Introduction: James F. Schmidt, Chief Financial Officer

Areas of focus

- Scaling Business: Investments, Systems, Processes

- Cost & Pricing: Systems, Visibility, Continuous Improvement
- Business Model: Revenue & Margin Streams
- Go-to-Market: Global Strategy & Execution



Introductions: Third Parties

Gabor Garai

- Outside Counsel, Foley & Lardner LLP

Harold Murphy

- Computershare Trust Co.

John Murphy

- Audit Partner, KPMG LLP



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Official business meeting agenda

- Business meeting call to order
- Declaration of quorum
- Proposal before stockholders
- Stockholder questions
- Adjourn

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Shares outstanding and voting power

Less Treasury:	11,634,806		11,634,806		11,634,806	
Outstanding:	28,768,252		31,569,865		31,776,960	
Common Stock Votes	28,768,252	19.7%	31,569,865	21.2%	31,776,960	21.3%
Class B Shares						
Issued:	11,758,218		11,758,218		11,758,218	
Less Treasury:	0		0		0	
Outstanding:	11,758,218		11,758,218		11,758,218	
Class B Votes	117,582,180	80.3%	117,582,180	78.8%	117,582,180	78.7%
Total Outstanding	40,526,470		43,328,083		43,535,178	
Total Votes	146,350,432	100.0%	149,152,045	100.0%	149,359,140	100.0%

[1] Totals shown represent basic shares (i.e., no dilutive considerations).

[2] Class B Shares are entitled to 10 votes per share.

[3] Class B Shares are not registered nor listed.

[4] Upon transfer, Class B Shares are convertible into shares of Common Stock on a 1:1 basis.



Declaration of quorum



Record Date shares:

- Common Stock: 31,776,960
- Class B Stock: 11,758,218
- Total eligible votes: 149,359,140
- Votes for which proxies received prior to meeting:
 - -139,086,782
 - -93.1% of total eligible votes
- Quorum confirmed



Proposal and stockholder questions

1. To fix Directors at nine and to elect the nine nominees

The Board will now respond to questions from registered stockholders submitted prior to the meeting or during the meeting via the Computershare website.



Voting results

Proposal	Board Recommendation	Shareholder Action	Votes in Favor * (Millions)	Votes in Favor * (%)
1.	FOR	APPROVAL	132.7	95.4%

* Each nominee received an affirmative vote of at least 132.7 million votes and 95.4% in favor.



Adjournment

End of official businessCall for adjournment





Strategy update: 5 layers of growth





5 layers of growth strategy

Develop clear messaging on who Vicor is and attain the attributes of our brand message	BRAND
Develop world class new product launch, lead development and closure processes	NEW PRODUCTS
Identify and target high growth market segments with major OEMs worldwide	GROWTH MARKETS
Build a New Customer franchise worldwide with global channel partners	NEW CUSTOMERS
Nurture and support existing customers worldwide with legacy and new products	EXISTING CUSTOMER BASE

Vicor: Modular Power Delivery Networks (PDN)



System performance demands driving rapidly increasing load power:

HPC and AI in data centers Automobile Electrification PDNs moving to higher voltages in high growth markets to facilitate efficient power distribution

Power = *Voltage x Current*

High-density, modular power delivery solutions:

Scalable Flexible Repeatable Proven <u>The</u> power module company with superior performance, density

Layer 1 and 2 advanced standard products

- 140 DCM products
- 10X the power density of bricks
- 50% reduction in power losses
- Building a new ChiP franchise





Global distribution channel partners



New growth markets

\$1B SAM expansion by 2026

- Robots
- LEVs
- UAV
- Satellite Communications
- LED Displays
- ATE





AI Computing



AI Computing Today

E-commerce/Cloud Service Providers

- Big 5(USA) + Big 3(China)
- Hyperscale deployments
- AI and XPUs for dedicated workflows
- HPC/Super Computing
 - Enable leading edge research systems
 - Benchmark computing (Top500)
- Al accelerators
 - Traditional GPU/CPU houses
 - Al Innovators (Unicorns)

AI Pods

- High density computational systems
- Maximizing computational system density
- Provides system level clusters
- 5G systems
 - Edge computing
 - Local inferencing

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Power delivery within AI Computing

- Increasing current consumption and form factor constraints
- Meeting new demands on power delivery and system level performance
- Advancing power density and system performance
- Addressing power delivery challenges from the grid to point-of-load with a SAM(2025) of \$2.5B



Conversion No longer a silver box

- HPC/Supercomputing and emerging AI Pods
 - Optimize computational power and physical form factor
- Our AC and high voltage DC solutions are enabling these new form factors

BCM6135 example :

- 380V to 48V conversion for HPC/supercomputer
- Very high power density
- Enables high voltage power distribution



Bridging 48V and 12V coexisting

- 12V to 48V
 - Legacy systems implementing new AI accelerator cards
- 48V to 12V
 - Advanced systems supporting aux devices and host CPUs
- NBM2317 example:
 - Bi-directional power converter
 - Supporting AI accelerator cards and host CPUs
 - 70% increase in power density from previous generation



Current Delivery Power to the xPU

- Design-ins and engagements with AI, high-speed network, and host processors
- Current delivery challenged by the combination of :
 - Space constraints
 - Higher currents / Lower voltages
- Factorized Power Architecture based designs meet these challenges



Current Delivery

New space constraints

- OAM standard, PCIE, and custom AI accelerator cards
 - PCB size limitations
 - Connector constraints
 - On-board memory blockage
- Network switch processors
 - High speed transceiver blockage
- Clustered computing
 - Wafer level / PCB level xPU grid fabric



Current Delivery Higher Currents and Lower Voltages

- XPUs are consuming 500A+
 - Transient load performance also increasing
- XPU operating voltages decreasing to less than 0.8V
 - Follows the progression of wafer fabrication geometry nodes (12nm, 10nm, 7nm...)

Close placement to the XPU is critical

Progression of CPU/GPU/ASIC/FPGA peak current requirements



Current Delivery

Factorized Power

Supporting power delivery architectures :

- Lateral
- Lateral/Vertical
- Vertical
- Winning on :
 - Density
 - Efficiency
 - Transient performance
 - Low noise generation





Cambricon

- China Al Unicorn
- MLU290-M5 accelerator
- OAM card format
- 7nm fabrication node







lluvatar

China Al Unicorn

- "Big Island" Al processor
- PCIE card format
- 7nm fabrication node







- Global effort targeting Cloud, Supercomputer, Al Accelerator, Al POD, and 5G systems
- Focus on Conversion, Bridging and Current Delivery
- Continue to innovate our product power and efficiency performance
- We extend our performance lead with:
 - Proprietary architectures
 - Silicon integration
 - Proprietary high density package technology





Automotive



OEM examples: Accelerating EV development

- For many years, the total electric vehicle production rate was only 1 – 2% of all vehicles produced worldwide
- Government incentives started the ball rolling, consumer demand is driving the acceleration of EV adoption
- Faster charging, higher performing, better styling vehicles drive consumer demand



Percentage of OEM EV fleet over time

The race to electrification

- This year new vehicle estimates are even higher than last year
 - New vehicle introductions drive consumer demand
 - Higher number of xEV introductions
- Out of 63M xEV cars by 2030, we expect battery electric vehicles to account for 29M cars

- 45% of the xEV total

ICE vehicle production could fall from 97% in 2020 to as low as 10% in 2040



Source: Credit Suisse estimates (Global Research team)

xEV content-rich vehicle platforms for Vicor

\$29B SAM by 2030

Range of potential content: \$50 to \$720 on average per vehicle





Vicor high level corporate automotive strategy

Create demand with automotive OEMs, OEM spec, build to print, directed supplier

Focus on 3-way OEM and T1 partnerships to provide systems engineering and manufacturing capability Enable tier 1 suppliers of auxiliary systems to implement (integrate) Vicor technology for point-of-load conversion



Modular advantages in automotive

Power density

Whether it's a fast sports car, a light duty truck, or a family car, OEMs need to pack as much power as possible in a constrained space. Vehicles need compact and efficient power solutions.

Reusability

To achieve full fleet electrification, OEMs need to be able to reuse designs across different platforms to speed timeto-market.

Flexibility/scalability

Automakers have many vehicles using the same platform and easy power scaling is essential when modifying the power between sedans, minivans, SUVs, etc. that share the same platform.



Vicor Automotive



Key automotive customer engagements

Americas

Europe

Engaged with 20 customers worldwide

- (4) Active OEM collaborations
- (2) Active Tier 1 collaborations
- Several pending collaborations OEM/T1
- Two customers with design ins expected SOP (start of production): 2023

OEM collaboration

- Tier 1 collaboration
- Multiple pending collaboration

Asia

Japan

OEM design in

Vicor automotive development timeline

	Nov 20 Signed agreem Japane	19 collaboration ent with se OEM	Jul 2 Sign agre Nort	2020 ed collaboration eement with h America OEM	Q4 2021 Expected IATF1694 Certificatio	9 on r	Oct 2022 Automotive prod complete PPAP, eady for market	lucts
2018	2019	2020		2021	2022		2023	
	Oct 2018 Launched automotive business initiative	Sep 2019 Signed MOU agreement with European customer	Mar 2020 Shipped first samples to automotive customer 800/48V	Dec 2020 Close the year with 3 design ins	Jul 2021 First shipment with automotive qual BOM	Feb 2022 Complete design validation automotive core products	Dec 2022 Production ramp	Jul 2023 SOP MY2024



Automotive quality and reliability

- ISO 9001: 2015 Certified through TUV Management Services
- Implementation of an APQP automotive quality management system
- Expected to ship auto grade material in 2021 with PPAP in 2022
- IATF 16949:2016 Certification Targeted for Q4 2021
- Driving the company towards a zero defects mindset



5 layers of growth strategy









Facilities expansion



Vertical integration

- Expansion enables vertical integration of critical processes
 - Reduced manufacturing cycle time
 - Scaled up capacity to catch up with demand
 - Leverages existing operational overhead and infrastructure





Capacity expansion

- New wing added to Federal St. factory for advanced products:
 - Upper floor for vertical integration
 - Lower floor for additional AP capacity
- Construction complete in Q421
 - Equipment on order
 - Complete vertical integration 1H 2022



Operational expansion underway

- Investment in equipment to ramp capacity
- Vertical integration to catch up with demand and improve gross margins
- New facility to support forecasted growth
- Approaching mix shift
 - Advanced Products > Brick in Q3 2021

Expanding production capacity Expected annualized Estimated timing revenue capacity Capacity Online 🧹 ~\$450M-\$500M Q2 2019 expansion New wing Online ~\$750M addition 1H 2022 New facility TBD ~\$1.5B

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Long term financial model

	Q1 2020	Q1 2021	Long Term Targets
Revenue	\$63M	\$89M	DD CAGR
Advanced Products	28%	39%	~80%
Brick Products	72%	61%	~20%
Gross Margin	43.1%	50.3%	~65%
R&D	21%	15%	~15%
SG&A	26%	19%	~15%
Operating Income	(3.7)%	16.6%	~35%



Q&A

