

OVERVIEW

May 2023

DISCLAIMER

Forward-Looking Statements

This communication contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements include, but are not limited to, statements about future financial and operating results, our plans, objectives, expectations and intentions with respect to future operations, products and services; and other statements identified by words such as "will likely result," "are expected to," "will continue," "is anticipated," "estimated," "believe," "intend," "plan," "projection," "guidance," "outlook" or words of similar meaning. Such forward-looking statements are based upon the current beliefs and expectations of our management and are inherently subject to significant business, economic and competitive uncertainties and contingencies, many of which are difficult to predict and generally beyond our control.

Actual results, performance or achievements may differ materially, and potentially adversely, from any projections and forward-looking statements and the assumptions on which those forward-looking statements are based. All information set forth herein speaks only as of the date hereof and we disclaim any intention or obligation to update any forward-looking statements as a result of developments occurring after the date of this communication. Forecasts and estimates regarding Microvast's industry and end markets are based on sources we believe to be reliable, however there can be no assurance these forecasts and estimates will prove accurate in whole or in part.

Microvast's annual, quarterly and other filings with the U.S. Securities and Exchange Commission identify, address and discuss these and other factors in the sections entitled "Risk Factors."



OUR STORY

Innovating superior lithium-ion battery solutions to power a more sustainable future.

The name Microvast encapsulates our founder's conviction that advancements in even small, "micro" battery components can a have long-term, large-scale, and "vast" positive impact to our environment.

This philosophy is embodied in our relentless commitment to R&D and has enabled numerous innovative and practical breakthroughs in battery technology, many of which have become industry standards and raised the bar for what can be accomplished in terms of energy efficiency.

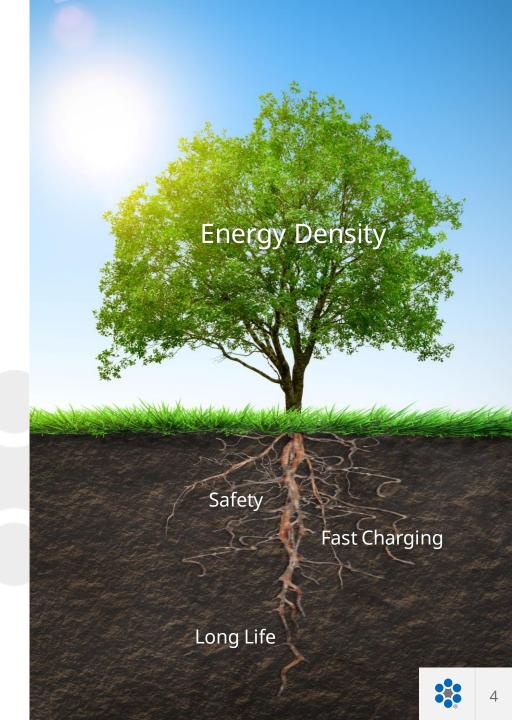
By understanding that advancements in micro battery components can lead to vast opportunities has allowed Microvast to have significant competitive advantages as it enters a multi-year high growth phase. This legacy ensures our innovative spirit will continue burning bright and producing meaningful advances for years to come.



FORWARD THINKING. POWERING NOW.

Innovating superior lithium-ion battery solutions to power a more sustainable future.

- Delivering advanced battery technology for high performance
- Delivering distinct competitive advantages to customers
- Accelerating the adoption of clean energy in transportation and energy storage markets



BY THE NUMBERS

What Sets Us Apart

28+
Country
Global Footprint

2,000+
Employees Globally

Manufacturing Plants

30,000+

Installed Battery Systems

630+

Patents & Patent Applications

Years Experience
Manufacturing Lithium-Ion Batteries



OUR LOCATIONS





Operation Via Green Energy Supply

- Manufacturing Plant
- Sales/Service Subsidiary
- R&D Center
- Energy Division Technology & Testing Center



WELL-POSTIONED

Product Portfolio

Differentiated product portfolio serving the commercial vehicle, energy storage, and battery component markets



Large and growing market

opportunity of over \$130BN by 2030
across commercial vehicle and ESS end
markets

MARKET OPPORTUNITY

\$130BN

Vertical Integration

Vertically integrated business model enables faster product development, greater customization and margin advantage



\$2.5BN+

partnerships with industry leaders through 2030 providing high visibility¹

Decades of Experience

World-class management team with significant cross-disciplinary experience and track record commercializing innovative technologies



LONG-STANDING PARTNERSHIPS

What Sets Us Apart

Customer Partnerships























R&D Partnerships







Significant recent wins provide market validation and highlight business momentum



Signed industrial and commercial cooperation agreement with FPT Industrial ("FPT"), the global powertrain brand of CNH Industrial Group, in 2020 (now Iveco Group)



Supply FPT with battery modules which are manufactured in our new facility near Berlin, Germany



Enable FPT to design and assemble battery packs in-house at its facility in Turin, Italy; to be offered for CNH Industrial vehicles, IVECO and to third-party customers



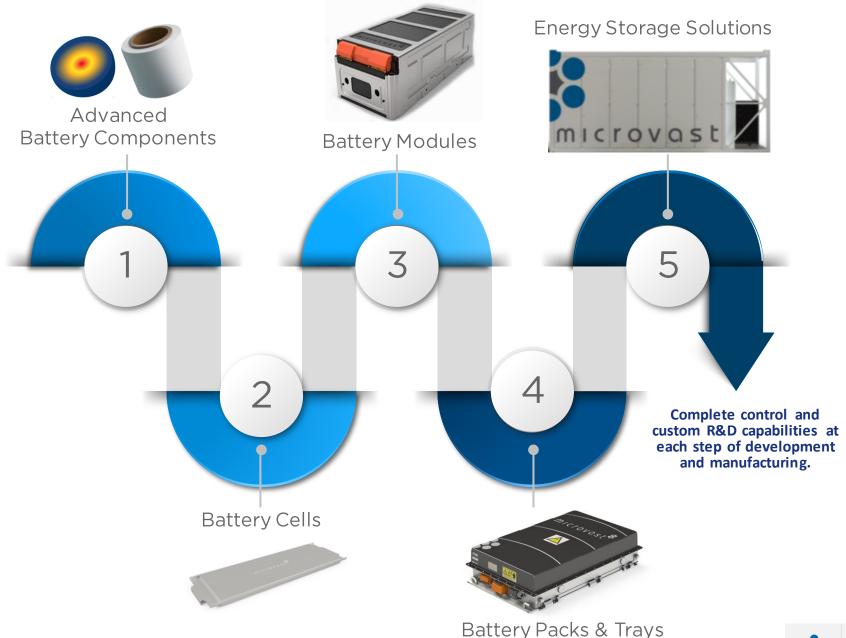
PRODUCT

VERTICALLY INTEGRATED

What Sets Us Apart

We're vertically integrated and maintain absolute control of every aspect of our development process from R&D to manufacturing.

This enables us to create custom battery solutions quickly, with industry-leading energy density, superior safety, ultra-fast charging capabilities, and long lifespans



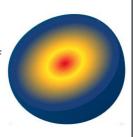
TECHNOLOGY PORTFOLIO

What Sets Us Apart

PROPRIETARY TECHNOLOGY Across All Battery Components

Gradient Cathode

Enables the precise distribution of elements (e.g. cobalt) across the cathode particles—boosts energy density and reduces cost



Non-Flammable Electrolyte

Virtually eliminates the risk of battery fires, addressing a major industry challenge

Aramid Separator

Higher thermal stability than charged cathode material; 2xthe temperature resistance of traditional poly-ethylene separators, enhancing safety and charging time



BROAD PORTFOLIO OF CELL CHEMISTRIES

LTO

Lithium Titanate (Li Ti O) 4 5 12 Ultra-fast charging, Ultra long cycle life, Safest LIB chemistry

LFP

Lithium Ferrophosphate (LiFePO₄)

Lowest cost Good cycle life

NMC-1

Lithium Nickel-Manganese-Cobalt Oxide (Li Ni "Mn "Co,O₂)

Ultra-fast charging Long cycle life

NMC-2

Lithium Nickel-Manganese-Cobalt Oxide $(LiNi_xMn_yCo_zO_2)$

Highest energy density Fast charging Long cycle life

EXTENSIVE 3RD PARTY TESTING AND VALIDATION



220-240 Wh/kg Extreme Fast Charge (XFC) Cells



220 Wh/kg High Power Cells 270 Wh/kg High Energy Density Cells



HnCO-52Ah cells



18 kWh LpTO Pack



200 Wh/kg Power Cells & 270 Wh/kg High Energy Density cells



SUPERIOR TECHNOLOGY

What Sets Us Apart



Our batteries have earned us bragging rights...and awards.

High Energy Density

Our industry-leading energy density allows you to store more energy in a smaller volume space.

Safety first

Safety is our top priority. With our patented chemistries, superior battery components, advanced battery management, and thermal management systems, we have consistently ensured safe and reliable operations for over 17 years (field-tested with real-world operational experience).

Rapid charging

With our ultra-fast charging capabilities, achieve a full recharge in as little as 10 minutes.

Long life

Our battery systems are designed for long cycle life, matching the vehicle lifespan for commercial transportation and over 10,000 cycles for our energy storage solution.

INDUSTRY-LEADING TECHNOLOGY

		Representative Applications	Energy Density	Life Cycles	Charging Time (full charge)
Currently in Production	Ultra Fast Charge (LTO) Introduced in 2011	Buses Mining Trucks	+30% (95 Wh/kg)	+70%	1/2 time (10 min)
	High Power (NMC-1) Introduced in 2017	Commercial Vehicles Buses	+ 15% (210 Wh/kg)	More than Double	1/3 time (15 min)
	High Energy Density (NMC-2) Introduced in 2019	Commercial Vehicles Passenger Vehicles	+10% (270 Wh/kg)	More than Double	1/3 time (30 min)
Upcoming	High Energy Density Target Cell (Won R&D 100 Award)	Commercial Vehicles Passenger Vehicles	+30% (330 Wh/kg)	+80%	1/2 time (45 min)

BATTERY CELLS

Our newest technologies enable our customers to easily optimize vehicle design in terms of energy density and cycle life, delivering improved overall performance and reducing TCO while preserving fast charging capabilities



For Fast Charging and Long Cycle life



Medium Energy Density of >205 Wh/kg

+11% vs MpCO-17.5Ah (its predecessor)



Extra Long cycle life

Designed for lasting use, featuring a long cycle life of over 7,000 cycles at 25°C with 3C charging and discharging



Ultra-Fast charging

Charge to 80% capacity in just 16 minutes at room temperature.



Outstanding safety and thermal management

High safety feature with high tolerance for abuse. Excellent low temperature performance (@-20°C with around 80% usable energy).



Lower TCO

-25% vs MpCO-17.5Ah



High Power

Perfect for powering heavy duty and high frequent usage applications. Solution for fast charging BEH, PHEV; HEV and FC commercial vehicle applications.



For High Energy Density and Range



High Energy Density of >235 Wh/kg

+7% vs MpCO-21Ah (its predecessor)



Long cycle life

Over 5,000 cycles at 25°C



Fast charging

Charge to 80% capacity in just 48 minutes at room temperature.



Outstanding safety and thermal management

High safety feature with high tolerance for abuse. Excellent low temperature performance (@-20°C with around 80% usable energy).



Lower TCO

-25% vs MpCO-21Ah



Great Balance between High Energy Density and Long Cycle Life

Perfect solution for BEV commercial vehicle applications (LD, MD, HD)

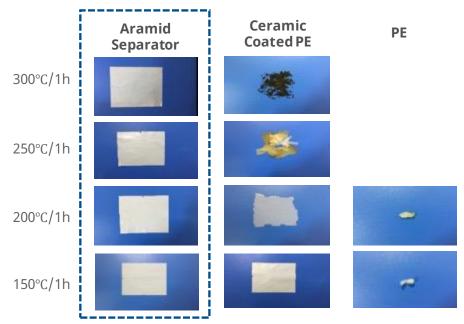
COMPONENT TECHNOLOGIES Aramid Separator

The separator is a key component for increased safety and critical for high performance cells. Microvast's proprietary aramid separator has **a far superior safety** proposition compared to PP and PE separators.

Microvast´s Aramid technology

- Patented technologies (26 in total) that possess unique benefits over traditional PE separators
- 10+ years R&D, Microvast separator has 2x the temperature resistance of traditional PE separators
- High mechanical and thermal stabilities

Aramid vs. PE separators at different temperatures





- Microvast's aramid separator shrinks and deforms less in higher temperatures than plastic based separators.
- The thermal stability of our patented aramid separator **prevents shrinking when the battery heats up**, thus reducing the risk of cathode and anode edges touching and short- circuiting and catching fire.

SELECTED BY THE U.S. DEPARTMENT OF ENERGY for a \$200 Million Grant

- Microvast selected by the U.S. Department of Energy ("DOE") to receive a \$200 million grant.
- Over 200 companies applied for \$2.8 billion in grant funding;
 only 20 companies selected.
- The DOE grant, plus funding to be arranged by Microvast, will support construction of a mass production facility in the U.S. for our thermally stable polyaramid separator technology.
- Microvast holds unique, patented wet-process technology to produce a thin polyaramid base film for very high temperature resistance.

- The separator is a critical element for battery safety and our polyaramid technology has significant safety advantages over incumbent technology such as polyethylene and polypropylene.
- Microvast and General Motors will collaborate to create a specialized separator.
- Target markets for polyaramid separator are large and growing and include commercial, specialty and passenger EVs, as well as consumer electronics and ESS systems.

ADDRESSING CLIMATE CHANGE

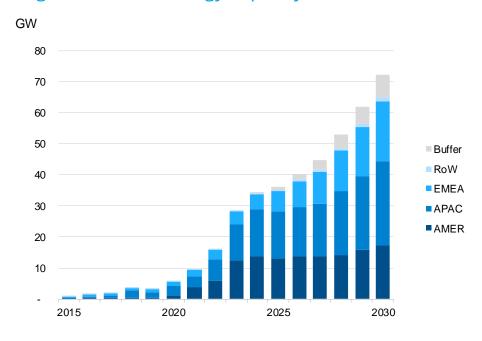


Battery Energy Storage Systems are Key to Renewable Energy Progression and Mitigating Climate Change:

- Microvast Energy, Inc. was created to open a new global market segment and revenue stream for Microvast Holdings
- Our ESS solution incorporates the proven, high-energy, lithium-ion 53.5Ah NMC cell technology from our commercial electric vehicle (CEV) battery
- The goal of the company is to become a leading global ESS solution provider to the energy market

GLOBAL ENERGY STORAGE OUTLOOK

Global Annual Storage Installations by Region Based on Energy Capacity



Source: Bloombergnef, Oct 2022

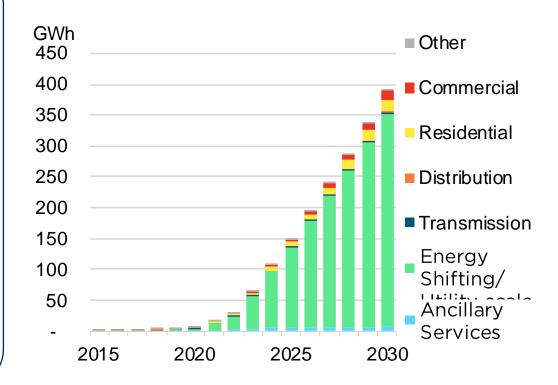


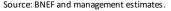
Energy Storage Market Opportunity

The U.S. Energy Storage Market is Expected to Reach \$45-50B⁽¹⁾ by 2030

- Government incentives and mandates such as the Inflation Reduction Act, which provides tax credits for wind, solar, and battery production (energy storage), increases momentum in the shift to renewable energy and expands demand for energy storage systems
- Such incentives have led to a 24% increase in BNEF's U.S. energy storage forecasts and cumulative capacity is now predicted to reach 396GWh by 2030 with a majority deployment of utility scale projects
- Significantly more demand than supply exists for energy storage systems today primarily caused by related supply chain constraints due to macroeconomic factors
- 95% of confirmed global projects for utility-scale applications as of 1H 2022 are for lithium-ion batteries, indicating lithium remains the preferred energy storage technology

U.S. Cumulative Energy Storage Deployments





^{1.} TAM calculated by multiplying 2030 cumulative capacity for energy shifting/utility-scale applications of 350GWh by estimated price of \$200M per GWh.

BUILT FOR UTILITY-SCALE ENERGY STORAGE



Very High Energy Retention

Microvast delivers an ESS solution with higher energy retention/slower degradation than leading competitors. This translates into lower CAPEX, lower OPEX, and less capacity cliff risk.

Highest Available Energy Density

A single battery container features an industry leading 4.3MWh energy

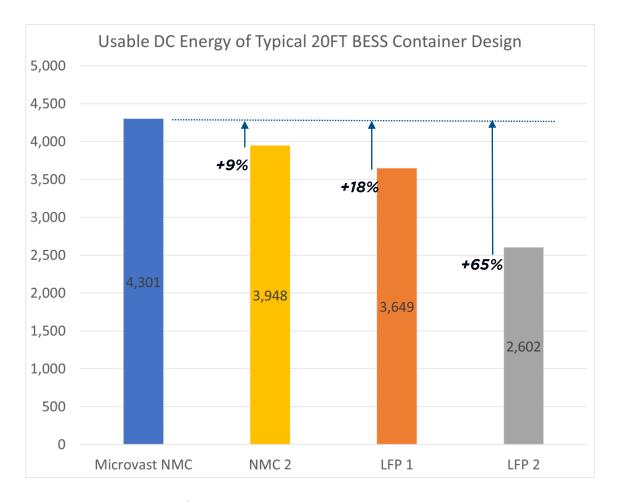
Long Battery Life >10,000 Cycles

Maintains functionality for more than 10,000 operation cycles

System Reliability

Microvast delivers U.S. owned technology, manufactured in state-of-the-art U.S. cell facilities, with the aim of ensuring the security of US energy infrastructure

ENERGY DENSITY



0.25CP/4HR Duration, 1 cycle per day, 100% DOD

Industry Leading Energy Density



Higher System Reliability/Availability



Lower EPC Cost



Lower O&M Cost

WHY ESS IS A HUGE GROWTH OPPORTUNITY...



Technology

We are bringing to market the best product – our 4.3MWh container has at least a 10-30% higher density rate when compared to leading competitive products



Execution

We started in April 2022, and we already have a 1.2GWh contract. We are working with developers on many other projects



U.S. Presence

We are well under-way with our 2GWh cell and module plant in Clarksville. Capacity additions will be made to meet the expected increase in demand. We can deliver "US content" which has a clear financial value to our customers



Govt. Demand Push

The U.S. market alone has tremendous government incentives lasting until 2032, perhaps beyond



Innovation & Commercialization

We are already developing our new product launch for 2025-2026. We have a 16-year history of repeated innovation and commercialization



The Right Team

We have one of the most experienced teams in the energy storage sector, with a proven track-record in product development, product/project launch, and managing high growth operations



MICROVAST LEADERSHIP TEAM



YANGWU Founder, CEO

2006



SASCHA KELTERBORN CRO

2016



ZACH WARDPresident, Energy Division



DR. WENJUAN MATTIS *CTO*

2013



CRAIG WEBSTER
CFO

2012



SHANE SMITH COO

2019

Profile	
Summary	

Onboard

Since

- Previously founded Omex, sold to Dow Chemical in 2006, 50x ROI in 5 years
- BA, Southwest Petroleum University
- 20+ years in international BD
- 7+ years experience in e-Mobility VP, Vossloh AG & member of the Supervisory board in CN & RU
- Head of international sales, Murpo
- BA, University of Applied Sciences Kiel, Germany

 16 years in energy industry (Sungrow, Array Technologies, Advanced Energy)

2022

- 15 years in semiconductor industry
- Executed more than 20
 GW of utility and
 distributed generation
 solar and 2GWh of energy
 storage projects
- BS DeVry University

- 11+years experience in lithium-ion battery business
- Board of Director, IMLB
- VP, International Automotive Battery Lithium Association
- Ph.D. Materials Science & Eng., Penn State
- 22 publications & 81 patents

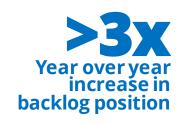
- Director of Microvast, Inc. since 2012
- 14 years at Ashmore Group - Seni or Portfolio Manager, Global Head of Special Situations Funds and General Counsel
- BA (Hons) Marketing, University of Stirling

- 23+ years at Roper & Qorvo (semiconductor)
- U.S. Navy (7 years)
- Certified U.S. Navy Nuclear Engineer
- MA, John Hopkins University
- BA, U.S. Navy Academy



Q1:23 Overview

\$47M Q1 revenue 28.1% increase year over year





>3x **\$486.7M**

driven by energy storage business in the U.S and strong demand in Europe

13.5%

adjusted gross margin an increase of 8.3 percentage points year over year

270%

Year over year European revenue growth increased from 7% to 22% of revenue

2GWh

Huzhou 3.1 expansion for HpCO-53.5Ah cell is completed remaining milestone payments fully funded from project finance

2GWh

Clarksville, TN expansion for HpCO-53.5Ah cell on track for Q4 production

2023 Outlook

Strong Backlog & Technology Supports Multi-Year High Growth Phase

70%-80% revenue growth from 2022

\$486.7M backlog

supported by energy storage business in the U.S. and strong demand in Europe

HpCO-53.5Ah cell accounts for

>75%

backlog due to superior technical performance

Clarksville, TN location benefits from IRA at \$45/KWh on its domestic battery cell and module production

2GWh=\$90M

Annual IRA potential

\$63-67M

Q2 revenue guidance

Anticipate significant uptick in orders and backlog

supported by new commercial vehicle and energy storage projects

2GWh

Cell, module and pack facility in Huzhou in trial production in Q1

New

2GWh

U.S. cell and module facility in Clarksville, TN Q4 production target

Exit 2023 New Capacity

4GWh = \$1B

Annual Revenue Potential

And a 10m sqm pilot line for polyaramid separator

PRODUCTION CAPACITY EXPANSIONS

What Sets Us Apart



China Manufacturing Plant Expansion capacity expansion completed Q1 2023

- 2.0 GWh per annum new manufacturing capacity fully automated production line
- New building can be expanded up to 12 GWh per annum (additional utility infrastructure required)
- ☑ In trial production in Q1 2023



Clarksville plant under renovation estimated completion Q4 2023

- 2.0 GWh per annum new manufacturing capacity (utility setup will support 4+ GWh per annum)
- Direct beneficiary of Section 45X production credits under the Inflation Reduction Act

THE INFLATION REDUCTION ACT'S IMPACT TO MICROVAST

\$35/kWh for cells and \$10/kWh for modules, both will be produced in Clarksville, TN

10-year IRA duration-2032 – with first five years of direct pay credits

Phase 1A of Clarksville (SOP Q4 2023) has 1.78GWh of productive capacity PA

\$80.1M

TAX CREDITS

The battery energy storage plants are standalone assets

Over the next 10 years, the IRA will lead to 69% more solar deployment than would otherwise be expected under a no-IRA scenario

Phase 1B (SOP est Q1 2025) increases total

available capacity to **3.56GWh =**

\$160.2M

TAX CREDITS

Energy storage ITC bonus **10%** to our customers

Every GWh of cell and module production generates

\$45M
TAX CREDITS

At Clarksville alone (4GWh capacity) IRA

offers a potential of up to \$1-1.2B



THANK YOU

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