

Q3 2022 Preliminary Report

November 16, 2022

Kevin Barber

CEO

Transforming the microbattery industry by delivering 1st mAh capacity solid-state microbattery*

Targeting Wearables, Hearables and Connected Sensors (IOT) markets

Ensurge microbattery unique benefits

Higher energy density – 2X More energy capacity in same space or smaller battery for same energy capacity Customizable form factor Optimized for customer device needs

Benefits of solid-state vs. existing Li-Ion

Fast charge – 3X High pulse discharge - 5X+ Charge cycles – 2X+

* mAh and microbattery refer to 1-100 mAh capacity required by a range of personal electronics, medical devices and IoT connected sensors

Connected Sensors (240M) **Hearables** (560M) Medical Wearables **Sports/Fitness** (150M) Wearables (350M)

billion+ units market opportunity

Strong momentum last 3 months

- Shipped first packaged battery samples to one of our customers, a leading hearing aid company
- Shipped packaged battery samples to innovative digital health device company with demand forecasted for Q1'23
- Shipped high performing unit cells samples to three strategic partners
 - A world leading consumer electronic and communications company
 - Two world leading battery manufacturers
- In discussion with more than 20 new companies wanting our battery offering each representing >\$200M in product revenue potential
- Strong increase in the production rate of battery cells during Q3 and expected to increase further during Q422 and 2023



Strong momentum last 3 months - 2

- Engaged in contract negotiations with a global leader in the information technology market
 - Funded technology development to deliver technology attributes beyond Ensurge's current roadmap
 - Technical objectives are defined to meet the demands of their aggressive wearable device roadmap achieving dramatic improvements of usability & ease of use
- Anticipate strategic partners to start funding co-development efforts during Q123



Q3 '22 financials

		Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Beginning Cash:		\$5,859	\$11,674	\$6,853	\$13,050	\$7,053
Expenses (non-gaap):	:					
	Operations	\$1,009	\$961	\$808	\$504	\$794
	R&D	\$829	\$831	\$689	\$896	\$998
	Sales & Marketing	\$257	\$163	\$215	\$181	\$213
	G&A	\$1,435	\$1,519	\$1,434	\$1,489	\$1,228
	Facilities	\$1,562	\$1,337	\$1,198	\$1,208	\$1,222
	Total Operating Expenses	\$5,091	\$4,811	\$4,344	\$4,278	\$4,455
Cash Adjustments:						
	Capital Purchases	\$110	\$39	\$302	\$225	\$399
	Utica Payments (P&I)	\$1,311	\$1,311	\$1,311	\$1,311	\$2,863 ¹
	Changes in Working Capital	\$360	\$(259)	\$18	\$383	\$320
	Total Cash Adjustments	\$1,781	\$1,091	\$1,631	\$1,919	\$3,582
Total of Operating Expenses and Cash Adjustments		\$6,872	\$5,902	\$5,975	\$6,197	\$8,037
Proceeds of Offering		\$5,700	\$87	\$10,796	-	\$14,034
Ending Cash		\$4,687	\$5,859	\$11,674	\$6,853	\$13,050

1 – Utica principal "catch-up" payment in Q3 21

Our Twin Go-to-Market Strategy

Strategic Partners

- Partner with major technology companies
 - Engaged with two major consumer device companies
 - Focus on signing funded development agreements
 - Wearables & hearables requiring unique and proprietary technology development for their own products
 - Leverage Ensurge high energy density core cells
 - Product revenue potential: > \$500M per year
 - Engaged with two major battery manufacturers
 - Focus on signing licensing agreements or funded development agreements
 - Use cases: wearables, hearables and IOT
 - Product revenue potential: > \$500M per year
- Technology commercialization
 - Up front and on-going NRE and/or equity investments
 - Licensing model
 - Manufacturing rights, thru royalty and/or investment

Commercial Customers

- Wearable, hearable and Industrial IOT markets focused on innovative solutions
 - Five signed agreements
 - Medical hearable (2), digital health, Fitness wearable, Industrial IOT
 - Product revenue potential: >\$50M per year
 - Two dozen more engaged
 - 16 wearables companies and 8 IOT companies
 - Product revenue potential: >\$200M per year
- Deliver customized complete batteries
 - Require performance or form factors not available
 - Fast charging, energy density, and form factor matter
- Product commercialization
 - Product sales of manufactured batteries
 - NRE development for product application support and customization



Innovative microbattery architecture

Ultra-thin 10µm steel substrate

- High energy density
- High mechanical strength

Innovative cell-stacking & packaging

- Maximizes energy density
- Customizable
- Contacts for direct PCB connection

Roll-to-Roll manufacturing facility

- High throughput, low cost
- Conventional manufacturing environment

Established anode-less solid-state chemistry

Lower cost

دي الم

- 1000+ cycles
- Rapid charging and high pulse discharge

Value Propositions Driving **BOTH** Strategic and Customer Engagements



Ensurge: performance and customizability, at scale



Summary

First Solid-State mAh & 10's mAh Microbattery

→ E V

Roadmap fits the \$B market needs

- \$100M EBITDA from existing roll-to-roll manufacturing facility
- \circ \quad Experienced leadership and management team



Targeting multiple BU, multiple \$B market

- Hearables, wearables, medical wearables, IoT
- Ensurge microbattery improves existing applications and enables new ones



Novel Architecture

- Delivers superior energy density, customizable form factors, 2X charge cycles, fast charge and high pulse discharge
- \circ 10µm steel substrate & innovative stacking/packaging

Ready to deploy



- Significant progress achieved
- Production in Q4 2022







Thank You