



ENSURGE™

First Half 2021 – Interim Report

27 August 2021

Kevin Barber

CEO



Safe Harbor Statement

This report includes forward-looking statements covered by the Private Securities Litigation Reform Act of 1995. Because such statements deal with future events, they are subject to various risks and uncertainties and actual results for the stated period and beyond could differ materially from the Company's current expectations. Forward-looking statements, including estimates of capacity, selling price and other material considerations, are identified by words such as "anticipates," "projects," "expects," "plans," "intends," "believes," "estimates," "targets," and other similar expressions that indicate trends and future events.

Factors that could cause the Company's results to differ materially from those expressed in forward-looking statements include, without limitation, variation in demand and acceptance of the Company's products and services, the frequency, magnitude and timing of raw-material-price changes, general business and economic conditions beyond the Company's control, timing of the completion and integration of acquisitions, the consequences of competitive factors in the marketplace including the ability to attract and retain customers, results of continuous improvement and other cost-containment strategies, and the Company's success in attracting and retaining key personnel. The Company undertakes no obligation to revise or update forward-looking statements as a result of new information, since these statements may no longer be accurate or timely.

Ensurge financial reports and presentations may be accessed online at <https://ensurge.com/investor-relations/>

superior replacement in billion-unit market

Solid State Lithium batteries replacing Lithium-ion - huge global investment trend

Ensurge™ uniquely focused on micro battery markets



Premium microbatteries superior to lithium-ion

- 2x volumetric energy density (VED)
- 3x recharge cycles
- Fundamentally safer



Leveraging proprietary IP & unique technology platform

- Unmatched expertise on steel
- Validated roll-to-roll process
- Multi-cell stacking innovation
- Company owned, fully equipped manufacturing facility with ISO9001 QMS certification



Addressing unique market requirements

- Form factor & energy density for wearables
- Long lifetime & reliability for hearables and connected sensors

Q2 '21 financial summary

- Expenses on plan
 - Incremental headcount increases
 - Increases in manufacturing material expenses as activity increases
- Ending cash June 30, 2021 of \$7.1M
- Q3 subsequent cash raised
 - C warrants: \$8.2M, 290.7M shares
 - B warrants: \$5.4M, 195.8M shares
 - All warrants now expired

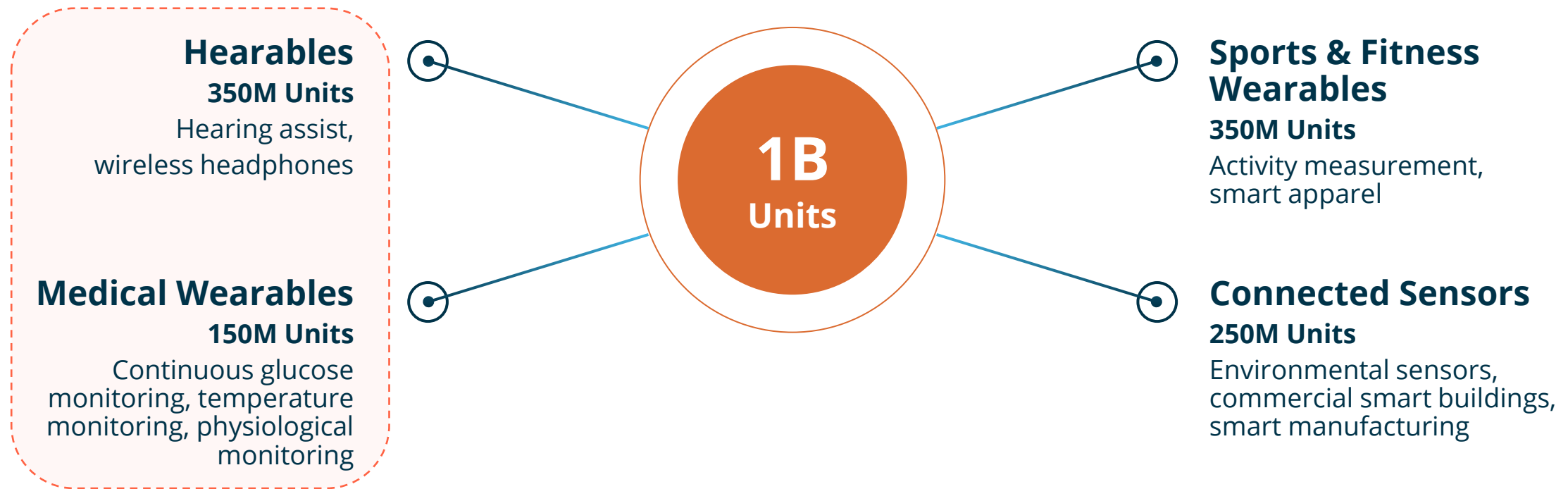
Summary Profit & Loss Statement (\$000)	Q2 2021	Q1 2021	Q4 2020	Q3 2020	Q2 2020
Product	\$ -	\$ -	\$ -	\$ -	\$ -
Other	-	-	1	17	(63)
Net Revenue	-	-	1	17	(63)
Purchases, net of inventory change	-	-	-	-	-
Payroll expenses	2,138	1,590	1,543	637	793
Research & development expenses	692	521	692	574	668
Other operating expenses	1,878	1,623	1,159	1,870	1,961
Depreciation & amortization	14	12	14	8	1
Total Operating expenses	4,722	3,747	3,408	3,089	3,423
Loss from Operations	\$ (4,722)	\$ (3,747)	\$ (3,407)	\$ (3,072)	\$ (3,486)

progress update

- On track for initial roll-based customer samples in Q4
- Validated battery cell performance with R2R depositions on ultrathin 10-micron steel rolls
 - 10-micron ultrathin steel enables unmatched energy densities
 - Validates path to production scale with roll-based manufacturing
- Installed cell-stacking equipment enabling mAh energy capacities
- Signed customer agreement with global leader in medical hearables market
 - In addition to previously announced Fortune Global 500 wearables customer
 - Additional customer agreements in pipeline
- Appointed globally recognized, award-winning energy storage innovator Dr. Shirley Meng to the Company's Technical Advisory Board
- Hired electronics industry veteran Vijay Parmar as VP Sales & Marketing

microbatteries – our market focus

Established and growing markets



Initial focus

Premium pricing
Focused market, direct sales to OEMs
Customization potential

Subsequent expansion

Broader customer base
Leverage partnerships
Standard products

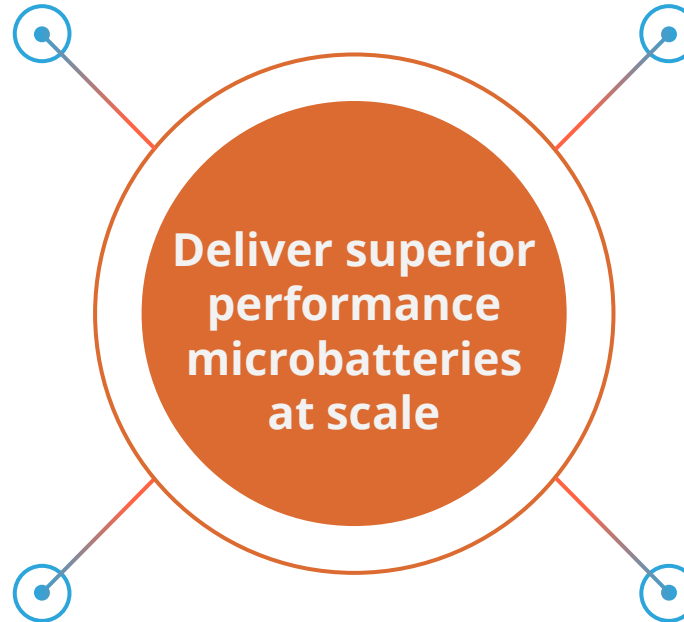
novel architecture transforming microbatteries

Established anode-less solid state chemistry

- Invented in 1990s
- Requires no further invention
- Core longevity and safety advantages
- Ensurge demonstrated entitlement energy densities within months

Proven ultrathin steel substrates

- Proprietary Ensurge development
- Maximizes volumetric energy density vs. ceramics & silicon
- Roadmap down to 10 microns
- Reliably shipped millions of EAS units







Innovative cell stacking & packaging

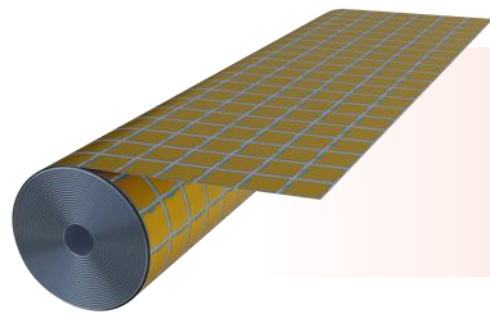
- Ensurge innovation enables thinner form factors, high volumetric energy density
- Leverages steel hermeticity
- Enables form factor customization

Installed ~\$40M scale-up R2R factory

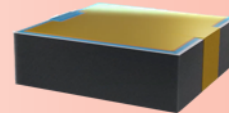
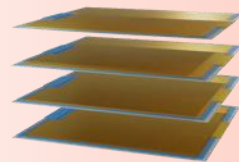
- Sheet-to-sheet development line
- Cost-effective path to high volume
- Supports technology roadmap

Ensurge: performance and customizability, at scale

		energy density more battery life per unit volume	recharge cycles longer lasting hearables, wearables, sensors	charging speed improved user experience	safety no fire, explosion, heat risk	form factor enabling unique end products
	Ensurge SSLB	2x	2-3x	2x		rectangle ultra thin
	vs.					
	Li-ion button cell	1x	1x	1x		thick circle



Scale via roll-to-roll fabrication



precision stacking & encapsulation

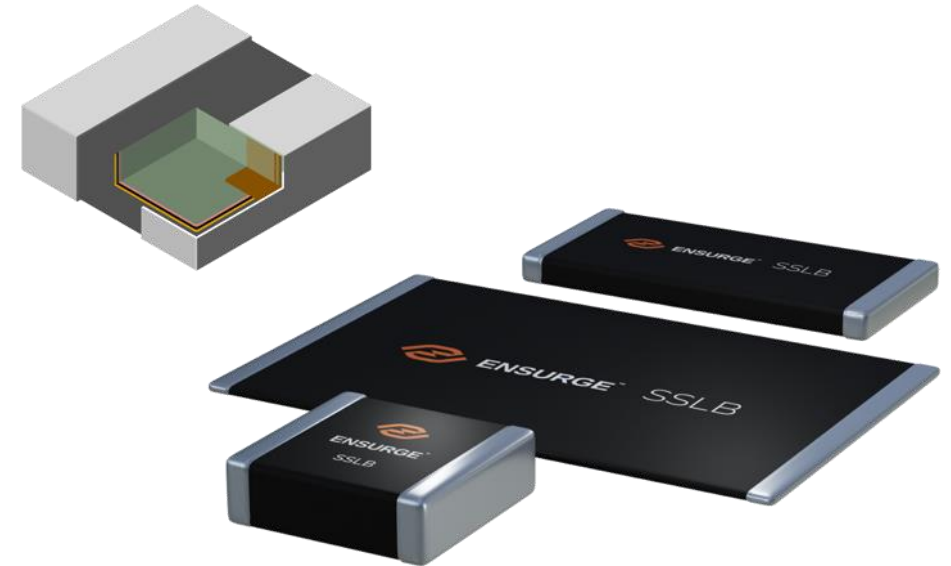


Microbattery product platform

microbattery product platform

optimized for form-factor-constrained applications

- Superior VED: Up to 600 Wh/l
- Long lifetime: 1000+ cycles
- Customizable: range of 'xy&z' dimensions
- On-body safe: No liquid electrolyte



Target markets

hearables

wearables

Product platform

- ✓ Fab process defined
- ✓ Packaging defined
- ✓ Max VED design rules
- ✓ Core product specs
- ✓ Scale-up via r2r

Ensurge SSLB products

Initial product

Customizations

investment highlights

winning with steel, stacking and scale

Solid-state lithium rechargeable microbatteries

- superior energy density, lifetime, safety vs. lithium-ion
- customizable form factors

Billion-unit addressable market

- hearables, wearables, sensors
- multiple customers announced

Extensive IP

- thin film and roll-based manufacturing
- internal development & acquisition of Kovio technology

Existing, production-grade factory

- \$40M equipment for high-capacity roll-to-roll mfg.





Thank You