

Ensurge Micropower ASA

Terje Rogne

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Background and next 12 months

Terje Rogne - Background

- Tandberg ASA
 - 15 years
 - From a «early-stage company» to a trade sale to Cisco for about NOK 19bn
- Instrumental in three spin-offs from Tandberg
 - Nordic VSLI (today Nordic Semiconductor)
 - Tandberg Television (acquired by Ericsson in 2007 for NOK 9bn)
- Nordic Semiconductor
 - Chairman
 - Current market cap of NOK 24bn
- Nokas
 - Chairman 2008-2018
 - Increased in size from NOK 0.75bn revenues in 2008 to NOK 7.5bn revenues in ten years
- The right background to be an important contributor to Ensurge Micropower
 - Not a battery expert, but with a strong track-record with regard to building strong teams and rapidly growing tech companies

The reason why I took this job?

- Visited the company in April 2023 in San Jose
- The company has an impressive group of engineers that has developed a Solid-State lithium battery
- In the testing- and manufacturing facility in San Jose, CA, they have been able to do extensive testing throughout the development phase
- The customers and partners I met, are in deep need for the Ensurge micropower battery full focus is now on ramping up production
- The proof is in the pudding we have to deliver on our first production order of 150k batteries to a medical wearables company
- Upon successful completion of this production order, Ensurge will capitalize on first mover advantage
- Above NOK 600 million invested last three years
- Testing- and manufacturing facilities not to be owned by Ensurge in the future potential for freeing up capital

IOT is a perfect match for the Ensurge battery

- I have a deep understanding of the IOT market from my previous positions
- The big challenge for the IOT industry now is to get access to more efficient batteries, currently not available in the market
- What Ensurge is bringing to this market
 - **Energy Harvesting** Solid State is perfect for recharging the battery whenever there is excess power in the system
 - **Pulse factor/Energy Transfer** 5X current batteries in the market
 - Form Factor What shape that is needed
 - **Energy Density** Superior to any other player in the market given a fixed size of the battery

The 6-9 months plan (phase 1)

- Get the 150k battery order to the customer
- That will enable us to attract new customer relationships
 - A perfect proof of concept
 - We will send the finished batteries to customers seeing is believing
- Get the cost levels further down
 - Co-Sharing of the testing and manufacturing facility
 - More than 50% of the monthly cash burn is from this part of the facility
- We believe a Co-Sharing agreement is highly attractive for a partner
 - In the middle of Silicon Valley
 - The Inflation Reduction Act has made these facilities a scarcity
- Make sure that Ensurge gets it fair share of grants available

9 months and beyond

- Scale the manufacturing to the already steady growing pipeline
- Increase the efforts towards the strategic partners and other Fortune 500 companies
- License our technology to verticals that will be outside our focus areas
 - We will not be able to serve all verticals
 - Very large customers typically want to control the production process themselves
- Build a solid organization able to handle the growth ahead



The Technology and the superior Performance

Unique differentiated technology demonstrated



Novel architecture

- o Delivers 2x energy density compared to Li-ion
- o 10 μm steel substrate, anode-less, efficient stacking/packaging



First high-VED* mAh solid-state lithium microbattery

- o 1-100 mAh capacity
- o Targeted at wearables, hearables and IoT devices



Significant progress achieved

- Cycling, capacity
- Fast charging



Go-to-market plan

Engaging with strategic customers and partners









*VED: Volumetric Energy Density

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. current players

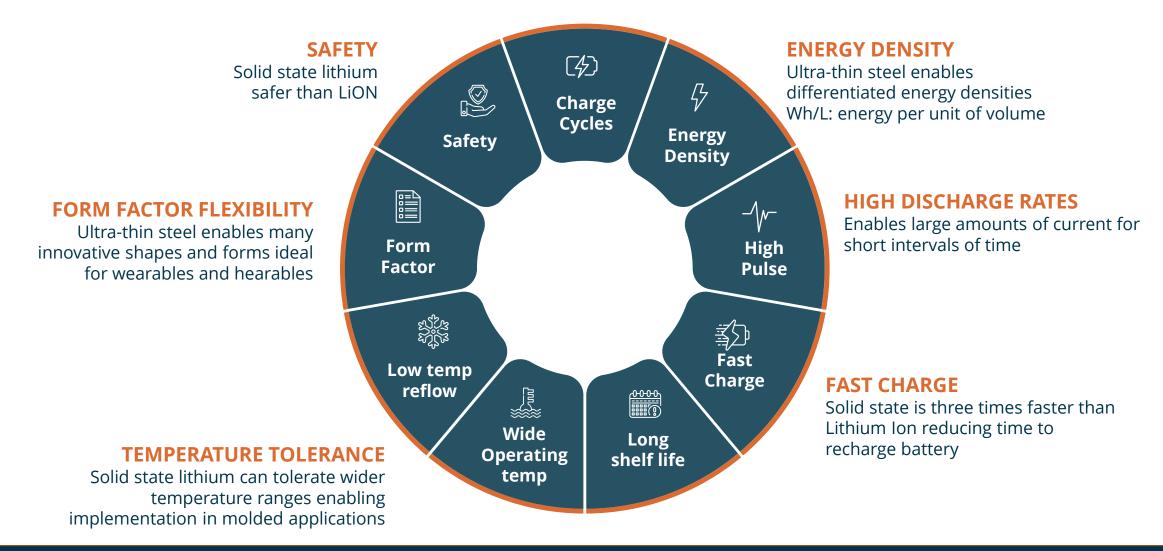
Fast charge – 3X High pulse discharge - 5X+ Charge cycles – 2X+ billion+ units market opportunity



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



Value Propositions Driving BOTH Strategic and Customer Engagements



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

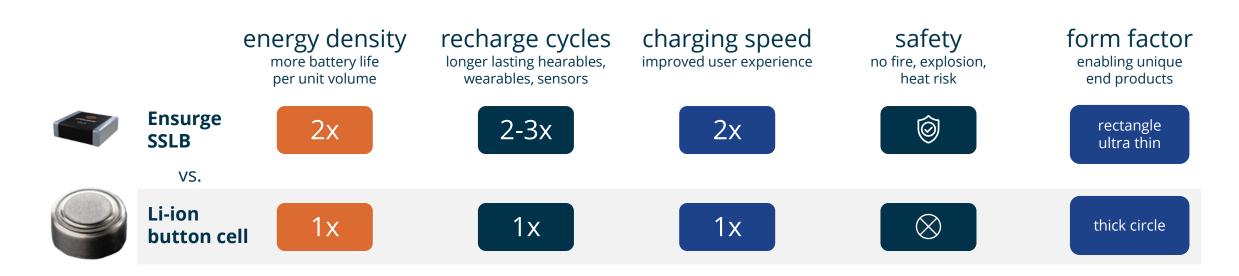
- High throughput, low cost
- Conventional manufacturing environment

Established anode-less solid-state chemistry

- Lower cost
- 1000+ cycles
- Rapid charging and high pulse discharge



Ensurge: performance and customizability, at scale







Go-To-Market



Growing Addressable Market (\$10B+)

 We are addressing a \$10B+ and growing micro-batteries market with unique game-changing solid-state technology.

Established and growing markets

Hearables Sports & Fitness Wearables 560M Units 350M Units Hearing assist, 1B+ Units wireless headphones Activity measurement, smart apparel \$10B+ **Medical Wearables IoT Connected Sensors** 150M Units 240M Units Health monitoring Environmental sensors. commercial smart buildings, Wrist, finger, ear smart manufacturing

Our Twin Go-to-Market Strategy

Strategic Partners

- Partner with major technology companies
 - Engage with 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
- 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
- Deliver customized complete batteries
 - Require performance or form factors not available
 - Fast charging, energy density, and form factor matter
- The market is in need for our battery
 - The Ensurge battery is critical to get new product offerings with new features to the market

How to scale - seeing is believing

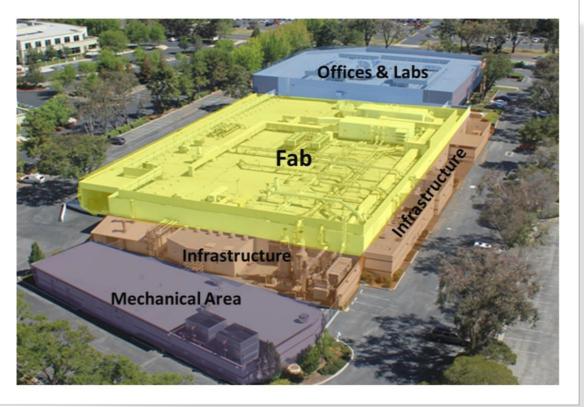
- Get a manufacturing ready batteries available for the market
 - Already test batteries manufactured
- Complete the first 150k battery order to our first customer
 - Representing a game changer
- Distribute finished batteries to our growing pipeline of customers for them to test
- Distribute finished batteries to our Fortune 500 partners (3 companies) for them to test
- Convert our pipeline and strategic partners into significant battery purchase orders



HQ and the manufacturing facility

Manufacturing facility in San Jose, California

San Jose, CA



- 20,000 ft² (2,000 m²) cleanroom
- 70,000 ft² (6,500 m²) office & labs
- Class H5 manufacturing facility

State of the Art Facility in the center of Silicon Valley

- Qualcom invested USD 100m in the facility
- Taken over by Ensurge in 2017 for a fraction of the original cost
- Unique composition of machinery, clean rooms and manufacturing equipment for battery manufacturing and/or semiconductor companies
- Significant valuation upside to current balance sheet figures
- A stand alone very attractive acquisition target in the current «Inflation Reduction Act» environment
- Ensurge will invite partners to co-invest in the facility
 - Longer term, Ensurge likely to divest the facility and to enter into contract manufacturing agreements

Summary

First Solid-State mAh & 10's mAh Microbattery



Roadmap fits the \$B market needs

- After delivering on first production order, a huge market will open up for the company
- o 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
- o 10µm steel substrate & innovative stacking/packaging



Ready to deploy

- Significant progress achieved
- Ongoing process to ramp up production

