



Battery Innovation Group

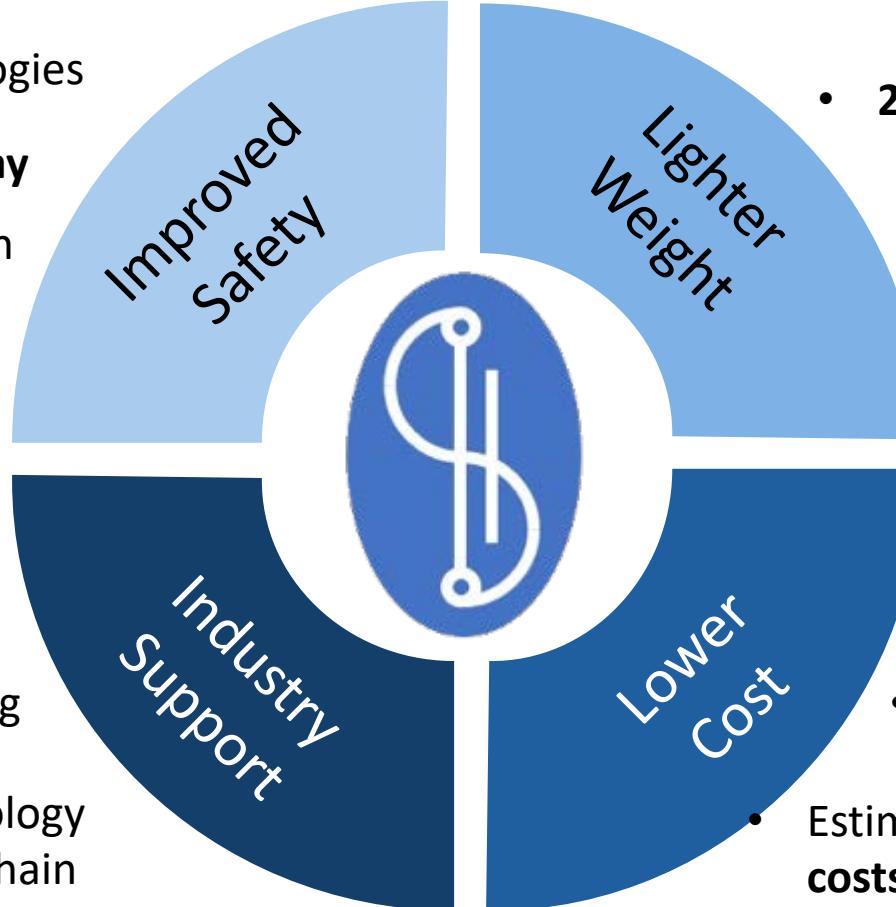
Dirk Van Hyning, CCO
Dirk.VanHyning@SoteriaBIG.com

SOTERIA VISION

To eliminate fires in all
lithium batteries, forever.

The Soteria Value Proposition:

Safer, Cheaper, Lighter and Industry Supported

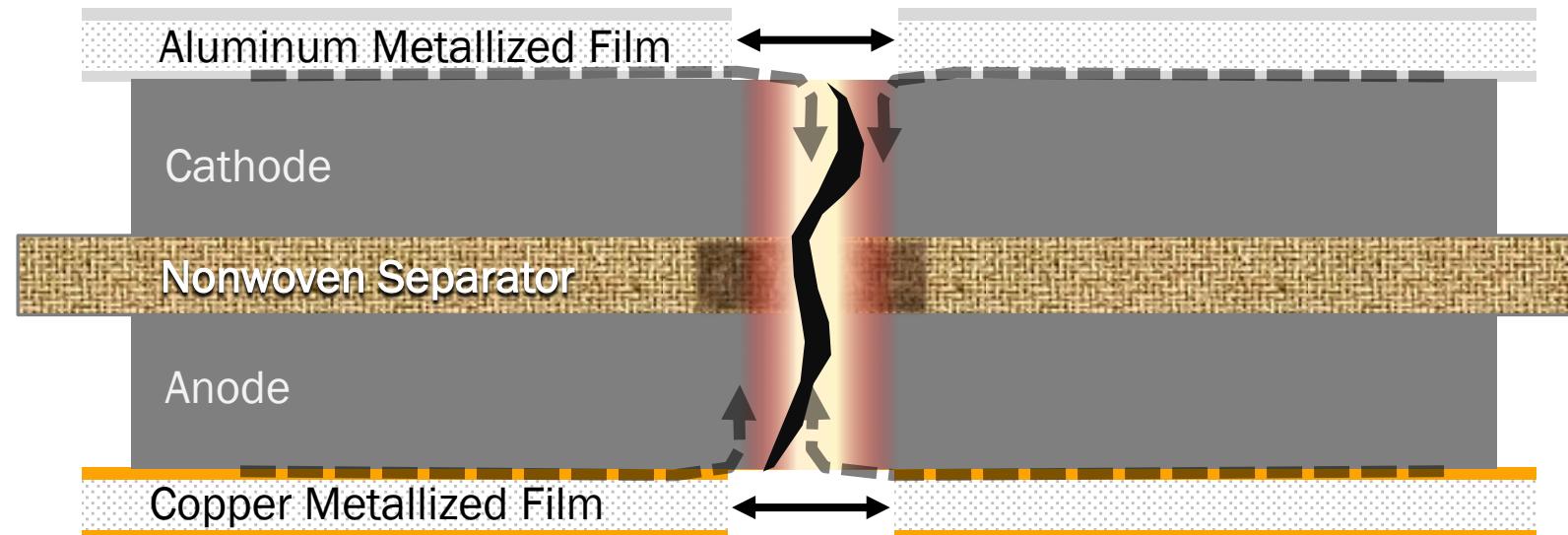


- Two licensable technologies
- **Eliminate root causes of thermal runaway**
- Functioning cells after nail penetration
- **Soteria global consortium has 54 members**
- Open innovation model with FRAND licensing
 - Consortium enables broad technology development and robust supply chain
- **20% reduction in weight**
 - Remove cost and weight of protective materials & systems
- Reduce metal use by 90%
- **Drop-in replacements**
- Estimated **30% reduction in material costs** for separator and current collector

The Soteria Technologies

Mechanism of Eliminating Thermal Runaway

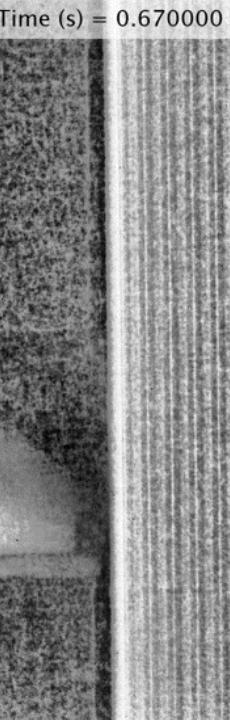
Dreamweaver Separator will char but not retreat from a short.



Soteria current collectors oxidize and retreat from short, acting as an internal fuse.

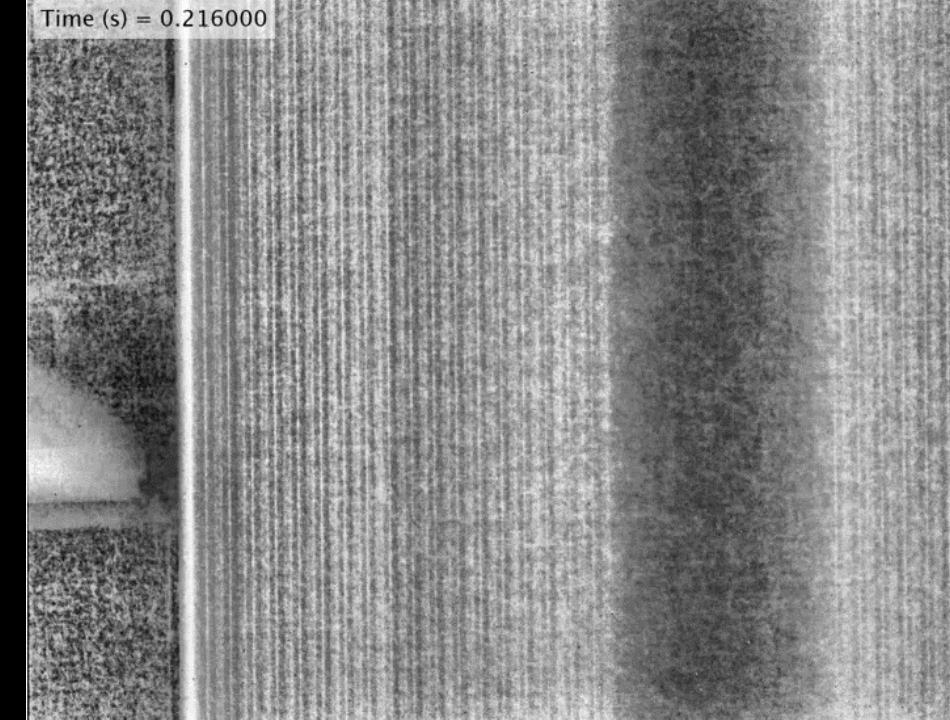


Do polymer collectors help protect against mechanically-induced thermal runaway?



2.1 Ah Cell – 100 % SOC (4.2 V)
Standard materials
Without ISC device

Watch Video: <https://youtu.be/LhlaHTKlgqc>



2.1 Ah Cell – 100 % SOC (4.2 V)
Al coated polymer current collector
Without ISC device

Watch Video: <https://youtu.be/uIApoho44tM>

The Soteria Consortium Model: Bringing Expertise Throughout the Supply Chain

Separator Members

Equipment/Raw Materials



Lenzing
Innovative by nature



TEIJIN

VOITH

Paper Manufacturers



engineered for tomorrow



domtar

delfort



Cell Level Members



CUBERG

Cellergy

ADA
Technologies, Inc.



POLY

JOULE



蜂巢能源

ENERDEL

TELEDYNE
TECHNOLOGIES
INCORPORATED



FLASHCHARGE

Batteries



CUSTOMCELLS
Ahead in cell innovation



Lionano



JENAX



Solzen Energy



Rolled-Ribbon
BATTERY COMPANY



BattFlex

Pack Level Members



蜂巢能源

ENERDEL

TELEDYNE
TECHNOLOGIES
INCORPORATED



End User Members



BOSCH

Mercedes-Benz

Research & Development North America, Inc.



MOTOROLA
SOLUTIONS



ONE2MANY

Labs and Other Members



DNV-GL



ingevity



SpectraPower



COLLEGE OF ENGINEERING



Current Collector Members

Equipment/Raw Materials



DuPont Teijin Films



Metallizers



*Click on a company's logo to learn more

Soteria BIG: What we are doing now?

CONSORTIUM GOALS

- License technology
- Aggressive safety standards
- Associate brand with safety

2020-21 Commercialization

- Scale materials, cells, packs for
- E-bikes, scooters, fork trucks, power tools, industrial electronics





Thank you!

Contact

Brian Morin, President
Elliot Reiff, CFO

brian.morin@soteriabig.com
elliot.reiff@soteriabig.com

(864) 908-4763
(949) 230-2398

18-B Brozzini Ct., Greenville, SC 29615

THIS PRESENTATION (INCLUDING THE FORECAST EXPECTED RETURN) HAS BEEN PREPARED SOLELY FOR INFORMATIONAL PURPOSES AND IS NOT AN OFFER TO BUY OR SELL OR A SOLICITATION OF AN OFFER TO BUY OR SELL ANY SECURITY. IT SUMMARIZES CERTAIN PROPOSED TERMS RELATED TO THE OFFERING BY SOTERIA BATTERY INNOVATION GROUP. SUCH A SOLICITATION MAY ONLY BE MADE THROUGH FORMAL OFFERING DOCUMENTATION INCLUDING A DISCUSSION OF ALL RELEVANT RISK FACTORS. THIS PRESENTATION IS FOR DISCUSSION PURPOSES ONLY.