Battery Innovation Group

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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
  - Drop-in replacements
  - 20% reduction in weight
    - Remove cost and weight of protective materials & systems
  - 20% reduction in weight
  - Reduce metal use by 90%
  - Drop-in replacements
  - Estimated 30% reduction in material costs for separator and current collector

- Soteria global consortium has 54 members
- Open innovation model with FRAND licensing
  - Consortium enables broad technology development and robust supply chain

Soteria
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?

Time (s) = 0.670000

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

Watch Video: https://youtu.be/LhlaHTKlggc

Time (s) = 0.216000

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
- Paper Manufacturers

Current Collector Members
- Equipment/Raw Materials
- Metallizers
- ROL-VAC LP
- DuPont Teijin Films

Cell Level Members
- CUBERG
- SVOLT
- EVALD
- TELTECH

Pack Level Members
- SVOLT
- ENERDEL
- TELTECH

End User Members
- NASA
- BOSCH
- Mercedes-Benz

Labs and Other Members
- DNV-GL
- INGEVITY
- LEITET

*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!

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