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Better Anodes, Better Batteries

March 11, 2019

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Better Anode Performance = Better Battery

Unique patent-protected chemistry of 3D silicides with high surface area.



- Specific Capacity of 1500mAh/g (**4x of graphite**)
- Charging rates above **15C**
- Cycle life +450cycles to 80% capacity
- 10% initial capacity loss
- Pure **solid state**, non flammable
- Can be used to create batteries above 300-400Wh/kg and 800-1000Wh/l = **potential for premium pricing**
- Compatible with any cathode and traditional electrolytes, ones with additives, and ionic liquids

Lower Cost Anode Manufacturing = Lower Cost Batteries



Single step CVD manufacturing, deposition directly on current collector

- **Decreased manufacturing cost** because:
 - No carbon
 - no binders
 - no solvents
 - no water
 - no dry room
 - no calendaring
 - no drying
- **Improved CapEx utilization** because existing anode line can double cathode production capacity

Anode is Market Ready



- **Tested and integrated** into coin cells, prismatic cells, and 18650s.
- **Independently tested** and assembled by:
 - Polaris Battery Labs
 - American Lithium Energy
 - Rochester Institute of Technology
 - Many other third parties
- **IP Granted** in:
 - China
 - Europe
 - US
 - Japan
 - Korea
 - Singapore

Opportunities

Acquisition

IP Granted Worldwide

The only IP granted on silicide anodes for lithium ion batteries

IP and know-how are strategic assets in the race for **faster charging and higher power** batteries

Investment

Fabrication recipe ready and tested

The silicide anode has evolved over eight versions, where optimization of cycle life and capacity was made

\$500k investment to fabricate samples
\$1 Million for prismatic cells
\$3M for roll-2-roll tool

License

Manufacturing license for anodes

Excellent for companies focusing on high power, high energy applications

Particularly important for Asian manufacturers competing with technology newcomers



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