



Solid Power

A New Breed of Battery

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Solid Power is a Leading All -Solid -State Battery Developer

Developing and producing OEM-validated batteries and materials on industry standard equipment

Company Highlights

10 Years of R&D

Founded in 2011

3 Years of Manufacturing Development

Pilot Production Facility Operational Since 2019

100+ Employees

World Class Team

Listed on NASDAQ in December 2021

The only pure-play solid-state battery company trading publicly

Production Line Cells Validated by Multiple OEMs and Top Tier Battery Producers

Key Business Highlights

Disruptive, Scalable Business Model Addressing ~\$590bn+ Market

Proven Low-Cost Manufacturing Process at Pilot Scale

Joint Development Agreements with Two Leading Auto OEMs

Capital-Light Business Model

Extensive IP Portfolio and Trade Secrets

Experienced and Deep Management Team

Leading Investors



Industry leader in All

-Solid -State battery technology

Source: Bloomberg NEF.

1. Based upon BNEF's estimates of global electric and non-electric vehicle production in 2035. Battery opportunity assumes 70 kWh h pack sizes and \$85 / kWh.

Two Product Groups

Sulfide Solid Electrolytes

- Proprietary sulfide -based solid electrolytes tuned for high conductivity and lithium metal stability
- Best all-around performing solid electrolyte materials
- Low-cost and scalable
- Capital light with attractive margins
- Can be sold to entire universe of companies pursuing their own sulfide -based all-solid-state batteries



Energy Dense Pouch Cells

- Proprietary design and production of industry leading all -solid-state cells
- Intend to utilize top tier cell manufacturers as licensed commercialization partners
- Low-cost and scalable
- Third-party produced cells expected to be sold to Ford and BMW and compete for other Auto OEMs



Potential Customers



Panasonic

SAMSUNG

Potential Customers



Other OEMs and Tier-1s

Long -term strategy: R&D and manufacturing

Long -term strategy: R&D and licensing

One Flexible All -Solid -State Platform

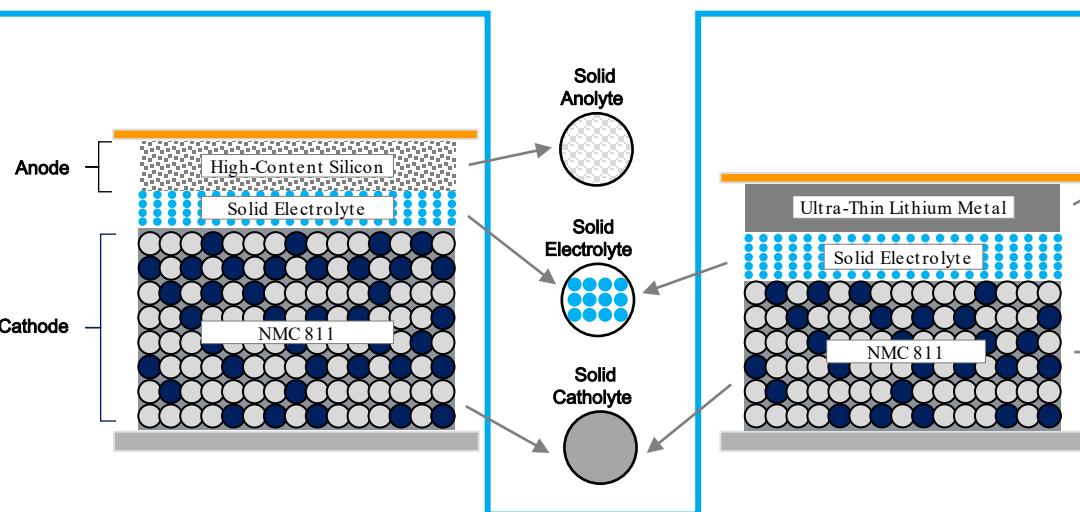
Solid Power's solid electrolyte can accommodate existing and prospective cathode and anode materials

Core Technology: Solid Electrolyte

Unique variants tuned as electrolyte, catholyte and anolyte products



Flexible platform allows use of alternative anode + cathode materials to suit specific performance requirements



Silicon Based Anodes

- High charge rates and lower temperature capability



Lithium Metal Anodes

- High energy



Intercalation -Type Cathodes

- Industry-standard and commercially mature



Conversion -Type Cathodes

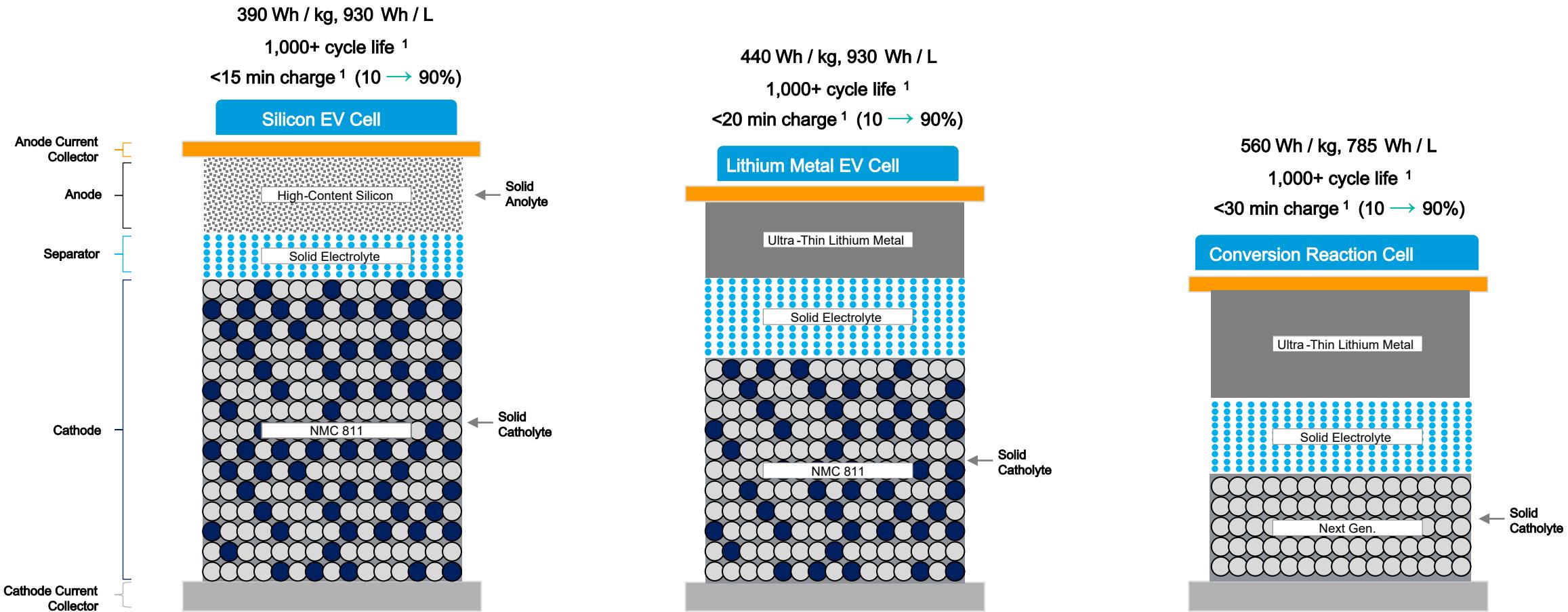
- Low cost and high specific energy



Electrolyte advancements through R&D are expected to benefit all anode and cathode chemistries

Solid Power Product Roadmap

Sustaining a product roadmap with continuous performance improvements across three unique chemistries



Multi -product roadmap specifically geared to satisfy Auto OEM objectives of early and sustained success

Note: Lithium metal anode portrayed in the fully -charged state. Solid Power cell performance metrics are initial commercialization design targets.¹ Solid Power estimates.

Real Results on the Path to Commercialization

Rapid performance and manufacturing achievements



Independently tested by Auto OEMs, top tier battery manufacturers and material suppliers

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Note: Lithium Metal EV Cell pouches shown for 0.2 Ah, 2 Ah, and 20 Ah. Each cell layer refers to the number of double -sided cathodes. 1. Independent testing completed for 0.2 Ah and 2 Ah cells to date with 20 Ah independent testing pending. 2. Cell rendering shown for 100Ah cell. 100 Ah Silicon EV Cell anticipated in 2022. 100 Ah Lithium Metal EV Cell anticipated in 2024.

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