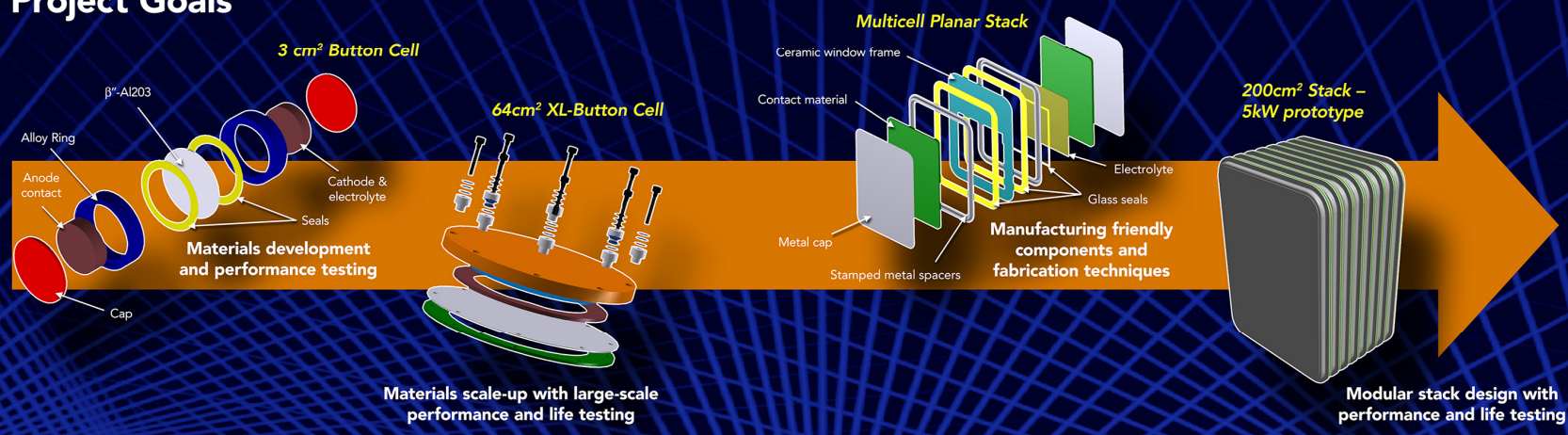
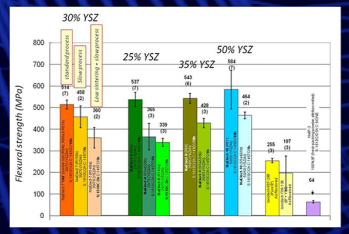
Planar Sodium-Beta Batteries

Project Goals

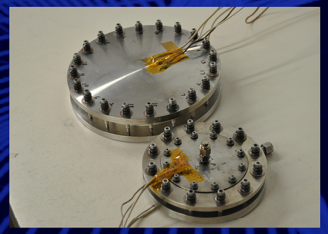


- » 3 year program to scale up and demonstrate high cycle life and efficiency of Na-β battery technology in planar format
- » Decrease capital cost by moving to high volume planar manufacturing. Planar technology has higher volumetric packing density than tubular architecture
- » Increase cycle life by reduced temperature operation – ideal for grid-scale storage

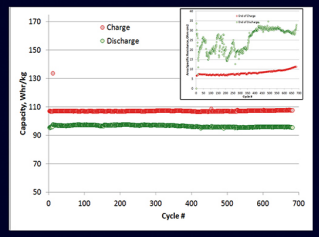
Recent Accomplishments



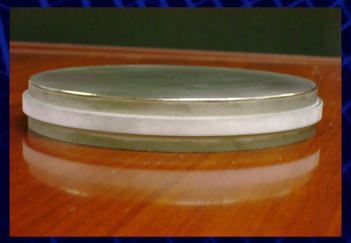
BASE (β" electrolyte) flexural strength as function of processing



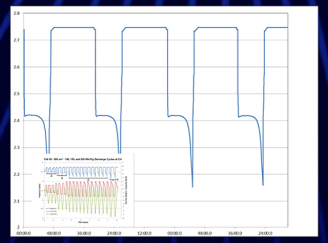
200 cm² & 64 cm² Planar Na-β Cell Test Fixtures



64 cm² cell - capacity and resistance data 100 Whr/kg at 1C - 280°C for over 700 cycles



200cm² Brazed Cell Design



200 cm² cell – cycling @ 200 Whr/kg at C/4 - 280°

EaglePicher Power Pyramid™ Demonstration/test system

EaglePicher™ Technologies, LLC
An OMG Company

EaglePicher Technologies is teaming with Pacific Northwest National Laboratory to develop the next-generation sodium-beta batteries for the nation's large-scale energy storage needs. The outcome will have direct impact on establishing U.S. leadership in stationary storage, and will demonstrate a competitive path to cost effective electrical energy storage. For more information, contact:

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