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Item 8: Bringing Rapid Innovation Development to Green Energy (BRIDGE) 2020 (GFO-20-301)

June 8, 2022 Business Meeting

Misa Werner
Energy Deployment & Market Facilitation Office
Energy Research & Development Division

Benefits to Californians

- Advances clean energy economy
  - Supports clean energy entrepreneurs
  - Speeds up transition to renewables
  - Improves high-performance batteries
  - Increased water and cost savings

Overview

6 Applicants	Award Amounts
Solid Energies Inc.	$3,000,000
Enzinc Inc.	$1,807,600
LookIn Inc.	$999,947
Element 16 Technologies, Inc.	$1,000,000
Pyro-E, Inc.	$1,548,602
Total Funding	**$8,356,149**

Solid Energies, Inc.

High-performance Solid-State Lithium Batteries with a Focus on Manufacturability

- Si-based anode to reduce anode cost and address dendrite formation
- Solid-state electrolyte with high conductivity that is compatible with roll-to-roll manufacturing

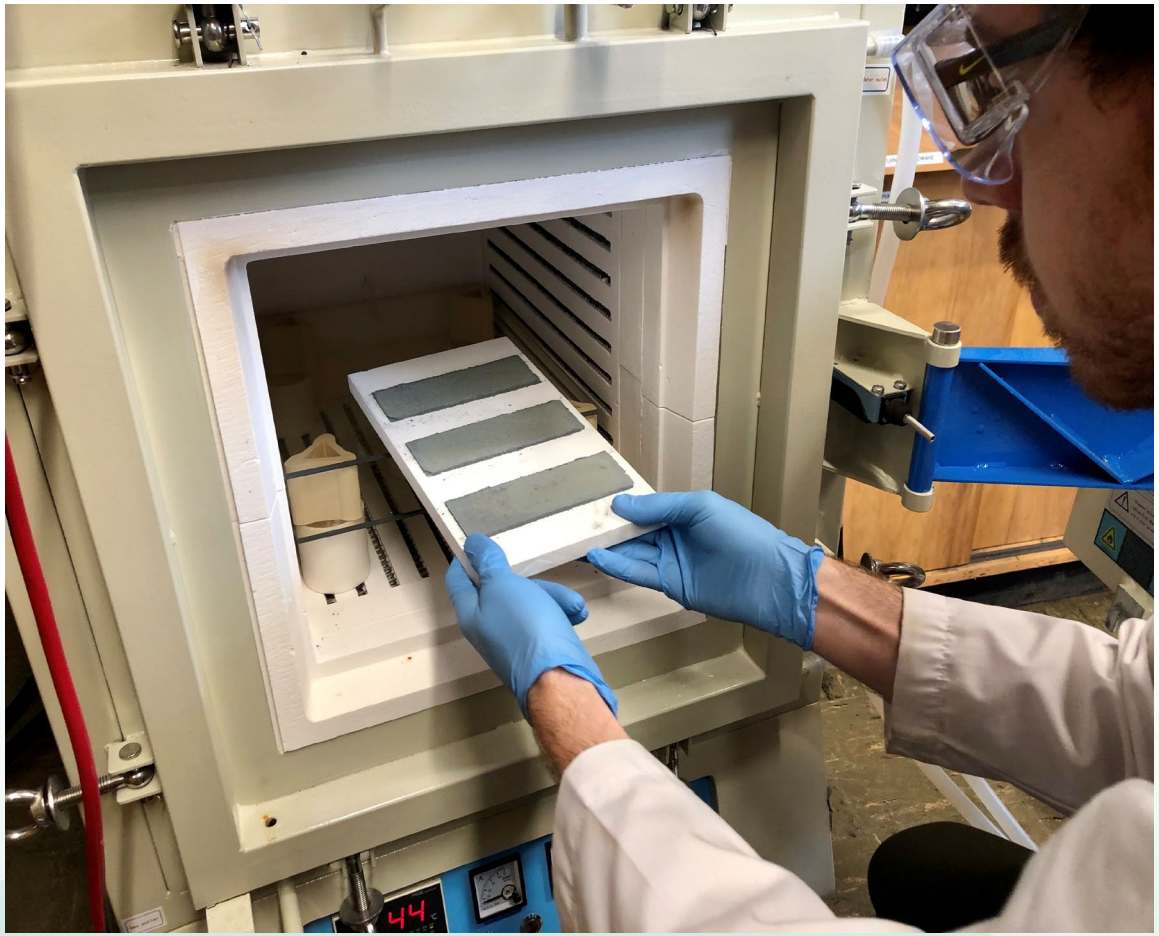
SOLID ENERGIES INC

Enzinc Inc.

ENZINC™

Zinc based battery for stationary storage applications

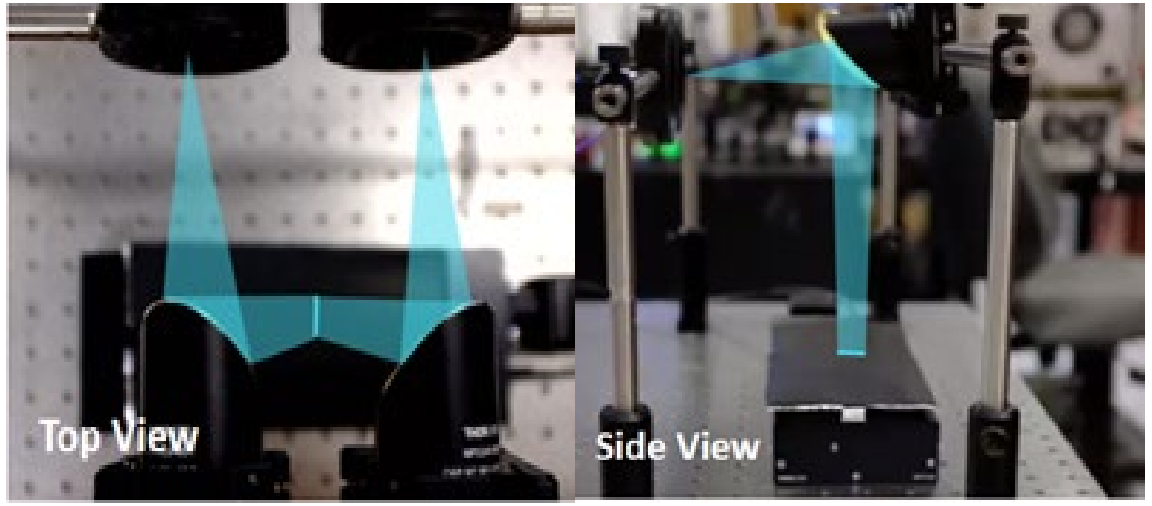
- Zinc metal sponge anode
- Performance of lithium-ion batteries at cost of lead-acid batteries
- Project will scale manufacturing of anode and test performance at cell and pack level

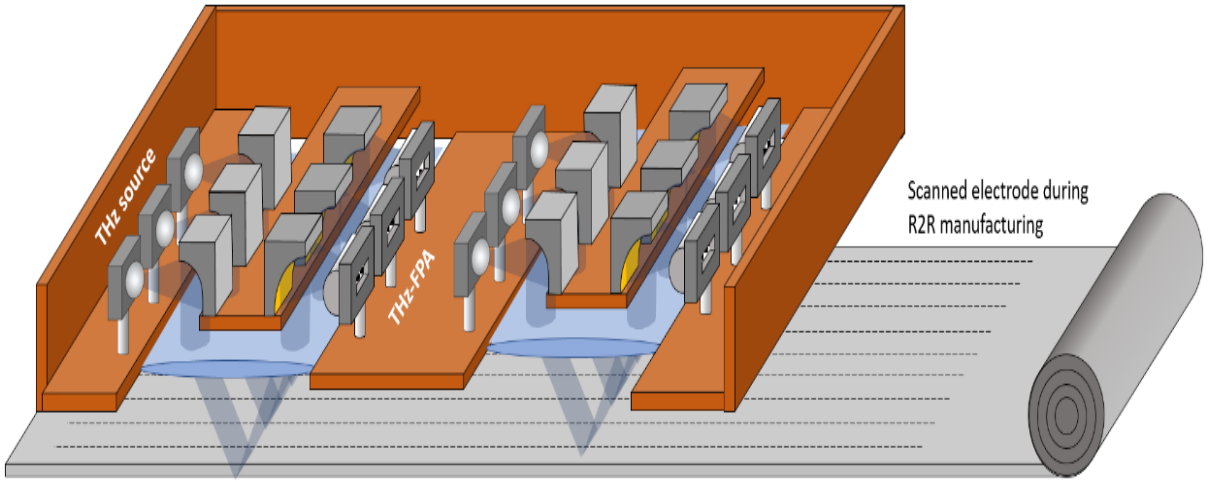


LookIn, Inc.

In-Line Quality Control of Lithium-Ion Battery (LIB) Electrodes through Terahertz Scanning

- High throughput terahertz scanning for LIB quality control
- Project will reduce scrap rates through non-destructive evaluation
- Lowers price of LIBs





Element 16 Technologies, Inc.

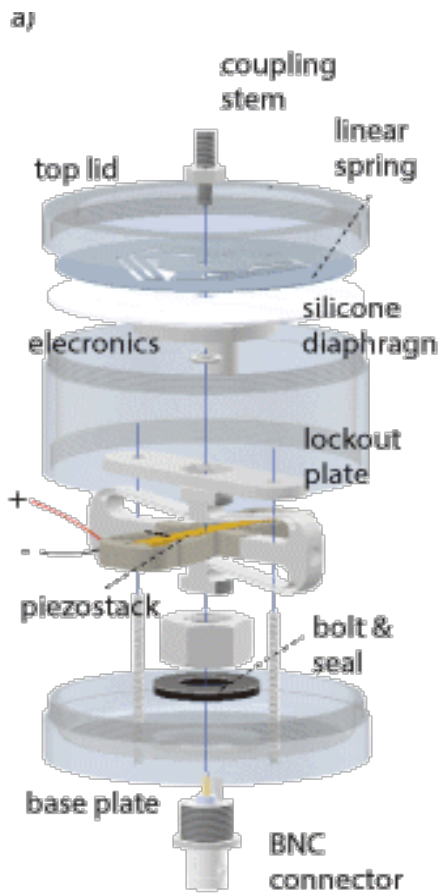
Electrification of Industrial Processes with Sulfur Electric Thermal Storage (SETS)

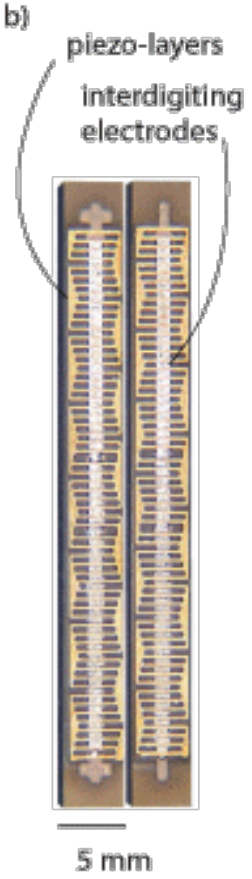
- PV-assisted molten sulfur thermal energy storage
- Industrial applications: heating, cooling, and electricity generation
- Pilot-test and demonstrate value to end users and ratepayers

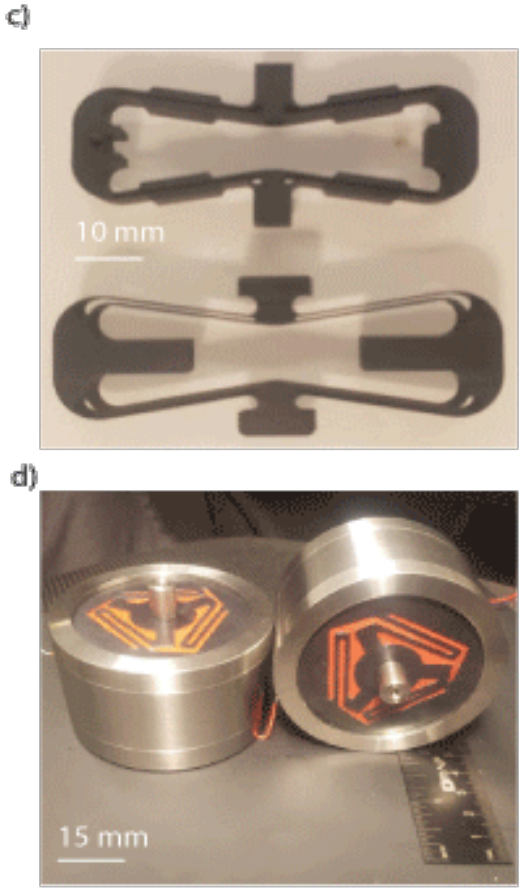
Pyro-E, Inc.

Auto-Modulating Power Source (AMPS) for Smart Water Metering

- Powers wireless data sensors indefinitely by harnessing energy from water pressure
- Reduced maintenance, manual processes
- Demonstrate up to 34% bill savings in disadvantaged community
- Savings from reduced water waste and avoided LIBs scalable to >2/3 of CA households







Staff Recommendation

- Approve 5 grant agreements.
- Adopt staff's findings that these projects are exempt from CEQA.