

A Better Battery for Energy Storage

# High-Performance, Non-Flammable, Sodium-Ion Batteries



# Driving the Future of Energy Storage



## Innovative Battery Technology with Na-ion Chemistry

- Non-flammable
- Non-toxic
- High Performance
- Affordable
- No lithium, no cobalt



## Top-Tier Team

- Mukesh Chatter, Co-Founder, serial entrepreneur
- Dr. Kripa Varanasi, Co-Founder, Professor of Mech. Engineering, MIT
- Dr. Nitin Nohria, ex Dean, Harvard Business School
- Dr. Mark Little, ex CTO and Sr. VP, GE
- Graeme Grant, COO, serial entrepreneur
- Dr. David Laughman, Sr. Dir R&D, ex-A123 & Ilika



## Rapid Development Capabilities

- Powerful computation, modelling and simulation tools
- Advanced home-grown AI tools paired with proprietary data sets
- Specialized automation to accelerate experiments and learning



## Customer Samples in Summer 2026

- High volume production planned for 2027
- Reliable, FEOC-free supply chain
- Excellent traction
  - Urban Areas
  - Residential
  - Microgrids
  - Defense
  - Data Centers
  - Utility/ Municipal



## Funding ~\$110M

- Investors include
  - General Catalyst
  - Tata Limited
  - Thrive Capital
  - Thomvest

# Lithium-ion is Not the Best Answer for Energy Storage

## Lithium-ion is flammable and combustible, with intense flames and toxic gases

- The only fire fighting technique is to isolate the fire, evacuate the area, and let it burn itself out over days/weeks
- Limits deployment options, especially in populated areas
- Not suited for high temperature environments



## Supply chains matter

- Fragile supply chain for Lithium-ion materials delays projects and hurts profits
- Reliance on FEOC countries adds risk and uncertainty to supply chains
- Cybersecurity vulnerabilities continue to grow



# Alsym Na-Series

## A Better Battery for Energy Storage



### Non-Flammable, Non-Toxic

- No thermal runaway
- No toxic gas venting
- UL 9540A at the cell level



### More Versatile Performance

- Wide operating temperature performance
- 0% S.O.C. storage and transportation
- High C-rate capabilities
- Capture changing revenue opportunities



### Lower Cost

- Lower cost minerals
- No expensive cooling systems required
- >95% Round Trip Efficiency (RTE)
- Lower OpEx



### Reliable Supply Chain

- Made with sodium – no nickel, lithium, or cobalt
- Made in the U.S. with domestic and free trade partners



# Alsym Na-Series



## Chemistry

NFPP+

## Format

Cylindrical (18650, 21700), Prismatic

## Cycle Life

>10,000 cycles

## Energy Density

250 Wh/L ; 135 Wh/kg

## Round-trip Efficiency

>95%

## Wide Operating Performance

-40°C to 60°C

## High C-Rates

2C / 4D



# Better Energy Storage Solutions



**Na-Series makes your solutions more effective in these industries:**



**Non-Flammable & Non-Toxic**



- Safe to put in buildings near people



**More Versatile Performance**



- Access the “risk averse” market



**Lower Cost**



- 24x7 energy with resilience and control



**Reliable Supply Chain**



- Safe, fossil fuel-free energy supply



- Versatile revenue opportunities



- No FEOC, U.S. based supply chain

# Alsym Energy – Strategic Partnership Program

## Who:

OEMs/ integrators interested in developing a sodium-ion solution with Alsym Energy

## What:

1. Input into development plans to optimize for your application needs
2. Pre-commercial access to Alsym Na-Series cells and modules for testing and system development, beginning in Summer 2026
3. Priority access to commercial supply as it comes available in 2027



# Contact Us

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