BREAKTHROUGH LOW-COST, MULTI-DAY ENERGY STORAGE

Clean Energy Expo - Wenatchee, WA December 14, 2023



Energy Storage For A Better World



The Challenge

The electrical grid needs to fundamentally transform to meet the challenges posed by the energy transition



Intermittency of renewable assets creates periods of undersupply



Clean energy goals and changing economics risk stranding fossil assets



Extreme weather events are becoming more frequent and disruptive to customers



Transmission congestion and interconnection queues are increasing

Rechargeable iron-air is the best technology for multi-day storage

Form's 100-Hour Reversible Rust Battery AIR CHARGE **METALLIC** RUST IRON DISCHARGE **AIR**



COST

Lowest cost rechargeable battery chemistry. Chemistry entitlement <\$1.00/kWh



SAFETY

No thermal runaway (unlike li-ion) Non-flammable aqueous electrolyte



SCALE

Iron is the most globally abundant metal Easily scalable to meet TW demand for storage



DURABILITY

Iron electrode durability proven through decades of life and 1000's of cycles (Fe-Ni)

Our rechargeable, static iron-air battery leverages globally abundant materials and off-the-shelf components

SYSTEM BUILDING BLOCKS

Iron Anode

- Highly abundant
- Very low cost metal
- Non-toxic
- Highly recyclable

-Air Electrodes

- Commercially proven air electrodes
- Readily scalable production

Water based electrolyte

- High pH (similar to AA batteries)
- Non-flammable
- No heavy metals

Balance of System

- Off-the-shelf water distribution, HVAC, & air handling system components
- Standard utility-grade inverter

Form Energy Overview



OUR INVESTORS: LONG-TERM AND IMPACT-FOCUSED

\$820M+ in venture capital from top investors including: Breakthrough Energy Ventures (BEV), TPG's Climate Rise Fund, Coatue Management, GIC, NGP Energy Technology Partners III, ArcelorMittal, Temasek, Energy Impact Partners, Prelude Ventures, MIT's The Engine, Capricorn Investment Group, Eni Next, Macquarie Capital, Canada Pension Plan Investment Board, and other long-term, impact oriented investors

LED BY ENERGY STORAGE VETERANS

Decades of cumulative experience in energy storage

100's of MW of storage deployed





















Form Factory 1: Commercial-Scale Manufacturing

Transforming Weirton Steel Land for Battery Manufacturing in West Virginia



Building rendering

■ Total Local Investment: \$760 million

Construction Start: Early 2023Production Start: Late 2024

■ **Jobs:** Minimum of 750 full-time jobs

Location Benefits

- Close to our existing pilot manufacturing facility in PA
- Strong natural infrastructure
- Local manufacturing know-how

Factory Function

- Semi-to-fully automated cell, module, & enclosure assembly
- Ability to scale production in modular blocks

Over 5 GWh of Commercial Engagements



First-of-its-kind **1.5 MW /150 MWh**MDS project in Cambridge,
Minnesota to come online
in 2024



Two 10 MW / 1,000 MWh MDS systems; one in Becker, MN and one in Pueblo, CO. Both expected to come online as early as 2025



10 MW / 1000 MWh MDS system in New York to come online as early as 2025



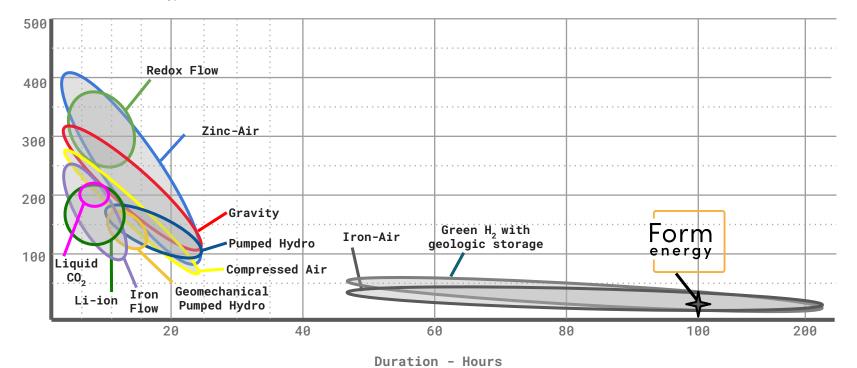
15 MW / 1500 MWh MDS system in Georgia to come online as early as 2026



5 MW / 500 MWh MDS system in Virginia to come online as early as 2026

Form's Fe-air battery is the only technology targeting multi-day duration without geographic constraints

2030 Installed Cost - S/kWh



What makes up a Form Energy system

Modular design enables easy scaling to GWh systems

Cell

Battery Module

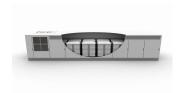
Enclosure

Power Block

System











Electrodes + Electrolyte

Smallest **Electrochemical** Functional Unit ~50 Cells

Smallest Building Block of **DC**Power

~5 Modules

Product Building Block with integrated module auxiliary systems

~3.5 MW / 350 MWh

<2 acres

~50 - 100 Enclosures

Smallest independent system and **AC Power** building block

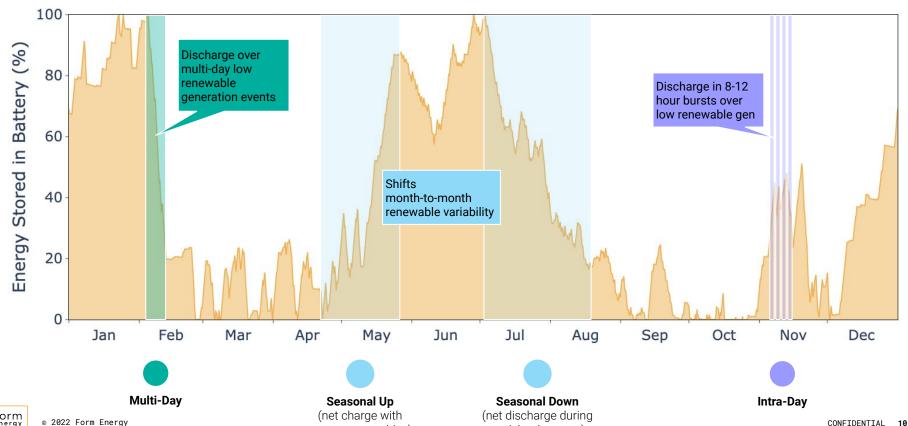
10 MW / 1000 MWh

5+ acres

10s - 100s of Power Blocks

Commercial Intent System

Multi-Day Storage operates year-round to balance seasonal, multi-day, and intra-day variability in renewables





Value propositions to consider

- Optimize renewable energy portfolio to avoid overbuilding
- Increase in system reliability and resource adequacy
- Balance intermittent renewable energy generation with non-emitting dispatchable capacity (hourly matching of renewables and loads)
- Microgrids
- Transmission offsets
- Generation pairing
- Other