Introducing

ZAF Energy Systems Company Update

“Changing the Way We Power the World”™
Success of an Energy Storage Solution

The Technology Dilemma

Does it work?
Success of an Energy Storage Solution
The Market Trial

Is there a value proposition?
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Adoption Challenge

Will someone buy it?
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The Final Hurdle – Manufacturability

Can it be economically made?
ZAF Energy Systems

- One of the largest lead acid equipment suppliers worldwide
- Coating at 150 feet per minute will bring production volume up substantially
- Production cost reduced and can be automated to the licensee's desired level
- Initial capital investment lower as much lead acid manufacturing equipment can be repurposed for NiZn production with minimal modification
- Licensee's maintain existing relationships for service and warranty
- ZAF's teaming with Wirtz allows us to scale with key licensees
- Wirtz belief in the future of NiZn prompted them to make a strategic investment in ZAF
ZAF Energy Systems

- **Disruption Opportunity** - ZAF’s nickel zinc (“NiZn”) technology targets the lead-acid battery market but has applications in certain li-ion applications

- **Performance** - ZAF’s NiZn battery dramatically outperforms lead-acid batteries in every metric including power output, size, weight, environmental friendliness, recyclability, and cycle count

- **Market Acceptance** - Early adoption from trucking, equipment OEM, and stationary storage operators plus testing by top battery manufacturers indicates market readiness

- **Framework** - ZAF’s Research and Development facility is located in Bozeman, Montana and is expanding production capacity in its facility in Joplin, Missouri

- **Proprietary Technology** - The company has a robust intellectual property and patent portfolio

- **Proven Team** – Company moving from development to low-rate to full-scale commercialization with expertise of battery manufacturing professionals with decades of experience