Liquid Metal Battery

Cell design

- Liquid metal A
- Liquid electrolyte
- Liquid metal B

Properties

- All liquid design
- 1. Low cost materials
- 2. Self-segregating
- 3. Robust
- 4. Long lifespan

Proof-of-principle

Chemistry 1: Mg||Sb

Testing rate

- Before ARPAe
- Cell testing dramatically increased
- After ARPAe

Scale-up

Future work: 200Ah cells, 4 cell stack

Progress

- New chemistries
- < $100/kWh
- Negligible capacity fade
- 70-90% DC efficiency