



Thanh Nguyen
Sr. VP of Deployment



6K
ENERGY



What has Changed at 6K in a Year?

Strong Executive Leadership & Board of Directors & Advisors

~200 employees

3 Business divisions,
incl 6K ADDITIVE &
6K ENERGY

>\$325M* Funding Secured &
Committed
[*second close in process]

~200 Patent families
across portfolio
of products

15 UniMelt systems for
R&D and production

>150K Sq. ft of R&D and
state-of-art
production space

Seasoned Battery Executives



Sam Trinch
President
6K ENERGY



Richard Holman, PhD
SVP, Technology
6K Energy



Chad McDonald
SVP BD/Strategy,
6K ENERGY



Thanh Nguyen
SVP, Deployment,
6K ENERGY



Rob Davies
COO
6K Energy



Industry and Policy Leaders on BoD



Dr Aaron Bent
CEO



Joe Kennedy III
DEM



Bob Galyen
CATL



Dr Joe Felter
REP



Ed Liddy
AIG



HEADQUARTERS AND BATTERY CENTER OF EXCELLENCE

BOSTON



▶ UniMelt® Plasma R&D center

▶ 6K ENERGY division / battery R&D

▶ 6K Equipment division

▶ 6K Innovation team (new products)

▶ Sales & Marketing



GLOBAL POWDERS AND ALLOYS PRODUCTION

PITTSBURGH



▶ ISO9001 certified, AS9100 2Q22

▶ 24/7 operation, 20 years in production

▶ High volume Ti expertise (2M lb/yr)

▶ 40K sq ft state-of-the-art powder mfg

▶ 45 acres, fully permitted & licensed



6K a Recipient of Infrastructure Law Funding

100% Domestic Supply Chain



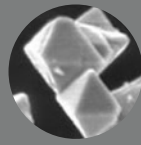
Virgin Feedstock

Recycled Content

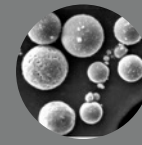
Domestic Lithium

Metal Digestion

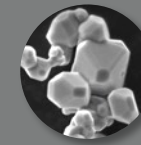
Multi-Chem Plant



NMC



LFP



LMO, others



Phase 1 Plant Stats

- Location: *Southeast, US*
- Operational: '24 (phase 1), '26 (phase 2)
- Capacity: *3,000 tpa*
(scaling to 10,000tpa)
- Chemistries: *NMC, LFP, others*
- DOE/6K portion: *\$50M of \$170M*

Proposal Demonstrations

1. Lower cost than co-precipitation
2. Zero production waste byproducts
3. Flexible 3 chemistry plant
4. Prove-in feedstock strategies to support 100% domestic Battery Supply Chain
5. Internal recycling loop for off-spec production material

24 Letters of Commitment



Transformational Technology Supports US Production CHEAPER than China

6K collapses the production process time by 95% resulting in a 50%-60% reduction in conversion cost... EVEN IN THE US

Legacy chemical process



20-30 hour precipitation



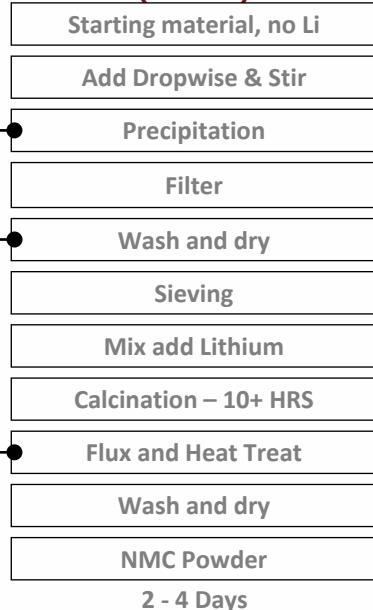
Hazardous waste streams



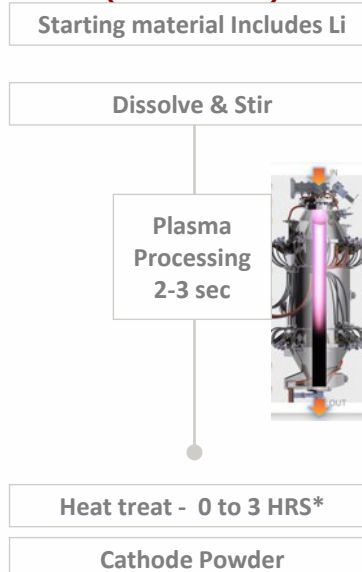
Long, energy intensive
Li diffusion

Cathode Production Process Today's Chemical vs. 6K plasma

Today's Chemical Process (3 DAYS)

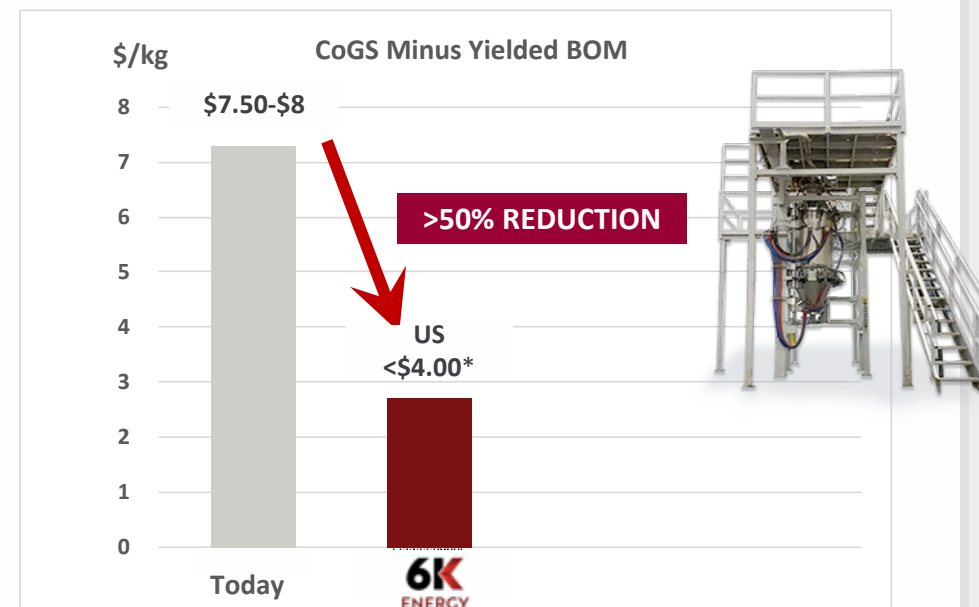


UniMelt (2 sec - 3 hrs)



*for single crystal NMC.

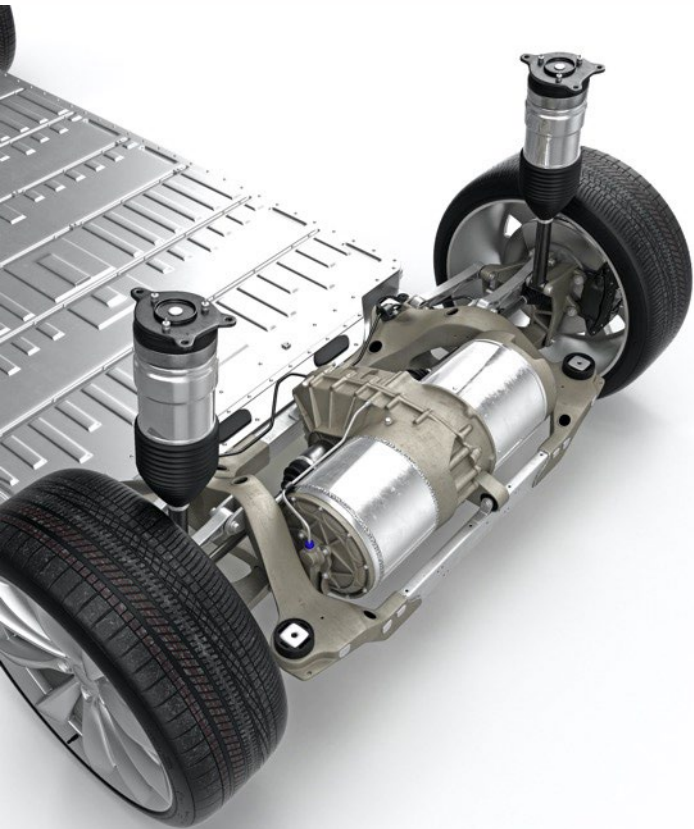
US Production Cost Today's Chemical vs. 6K plasma



* with 3hr calcination and Gen 2 hardware

Cost will ultimately win, which requires things to be done differently

UniMelt® is a highly sustainable production technology for battery materials with a fraction of CO₂ and virtually no waste byproducts



Zero Waste

0

Hazardous waste
(ammonia/sulfates)



10x

Reduction in water
usage



Up to 2x

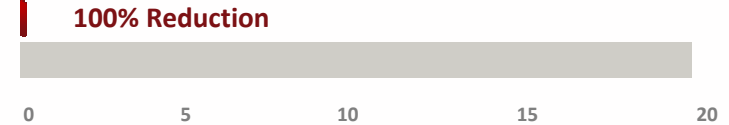
Reduction in power
usage and CO₂
emissions

Sustainability of UniMelt vs. co-precipitation

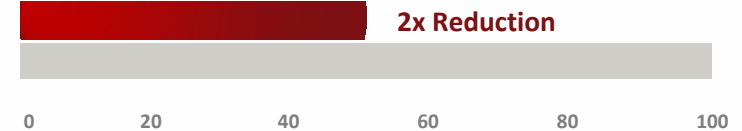
Liters of water per kg NMC



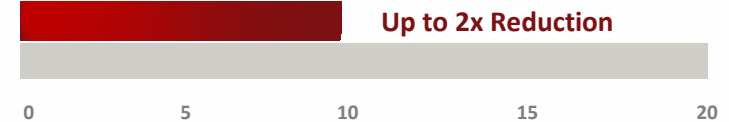
Liters of waste-water (ammonia, sulfates) per kg NMC



MJ per kg NMC



CO₂ per kg NMC





Thank You

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