

A close-up photograph of the front left side of a white electric car. The car's headlight is illuminated, and a white charging cable is plugged into the front charging port. The background is blurred.

Thanh Nguyen  
Sr. VP of Deployment



# What has Changed at 6K in a Year?

**6K**  
ENERGY

**~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

## Strong Executive Leadership & Board of Directors & Advisors

### 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



Dr Aaron Bent  
CEO



Joe Kennedy III  
DEM



Bob Galyen  
CATL



Dr Joe Felter  
REP



Ed Liddy  
AIG



Massachusetts  
Institute of  
Technology



### 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



► 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



ANZU  
PARTNERS



+VOLTA  
ENERGY TECHNOLOGIES



RKS Ventures



Material Impact



Cirba  
Solutions



iqt  
IN-Q-TEL



HERITAGE  
ENVIRONMENTAL SERVICES

# 6K a Recipient of Infrastructure Law Funding



## 100% Domestic Supply Chain



Virgin Feedstock  
Recycled Content  
Domestic Lithium  
Metal Digestion

## Multi-Chem Plant



## 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)

- Starting material, no Li
- Add Dropwise & Stir
- Precipitation
- Filter
- Wash and dry
- Sieving
- Mix add Lithium
- Calcination – 10+ HRS
- Flux and Heat Treat
- Wash and dry
- NMC Powder

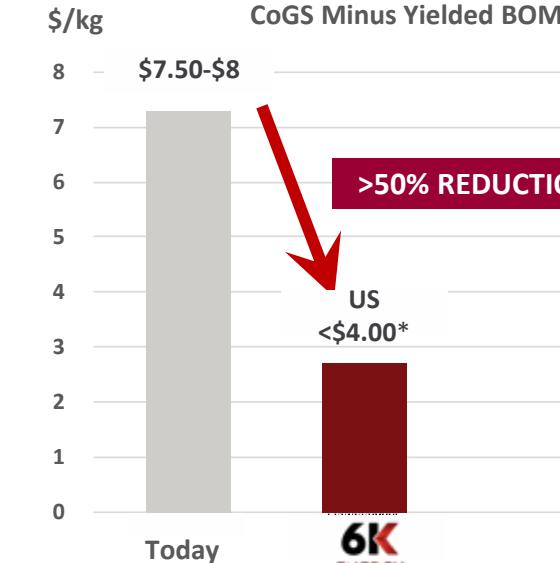
2 - 4 Days

### UniMelt (2 sec – 3 hrs)

- Starting material Includes Li
- Dissolve & Stir
- Plasma Processing 2-3 sec
- Heat treat - 0 to 3 HRS\*
- Cathode Powder

\*for single crystal NMC.

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

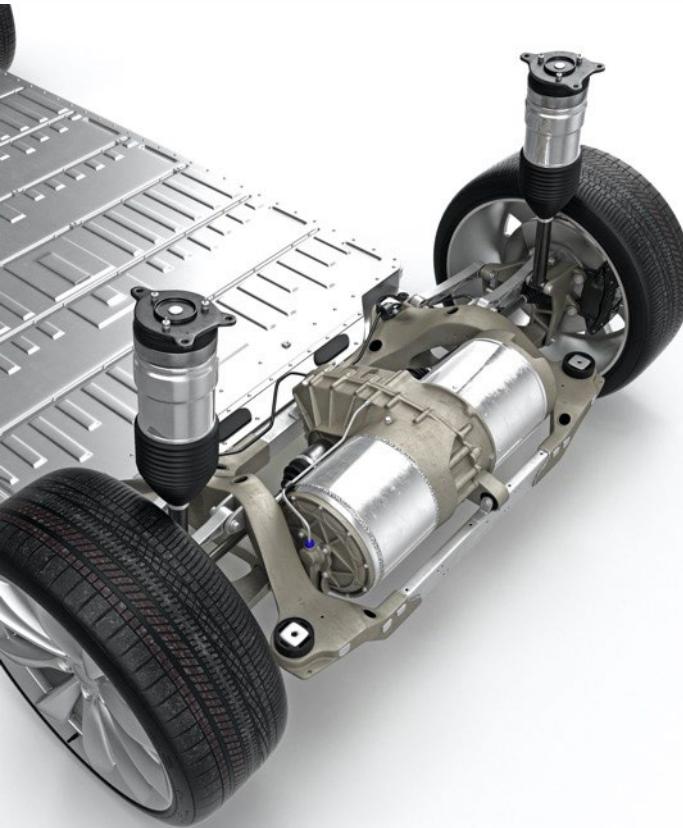


\* with 3hr calcination and Gen 2 hardware



## 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 CO<sub>2</sub> and virtually no waste byproducts



**0**  
Hazardous waste  
(ammonia/sulfates)

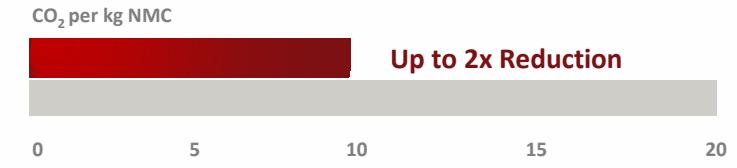
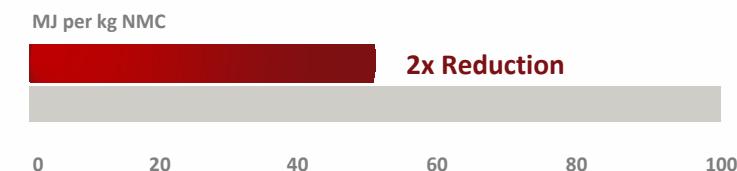
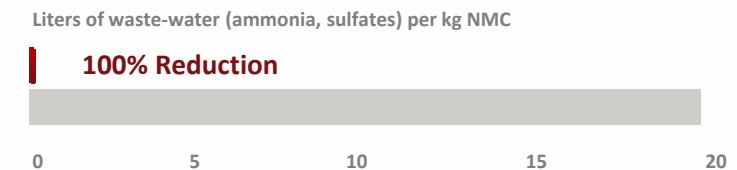


**10x**  
Reduction in water  
usage



**Up to 2x**  
Reduction in power  
usage and CO<sub>2</sub>  
emissions

### Sustainability of UniMelt vs. co-precipitation



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Thank You

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