

SUSTAINABLE PRODUCTION OF BREAKTHROUGH MATERIALS

6K COMPANY OVERVIEW

Headquartered in North Andover, Massachusetts, 6K is accelerating the industrial transformation of advanced material production and redefining sustainable manufacturing through the world's first industrial microwave plasma platform, their UniMelt system.

6K's UniMelt technology enables the development of advanced materials across a wide spectrum of markets including additive manufacturing and energy storage. It's positioned to replace today's traditional manufacturing processes with significantly lower cost and a much cleaner, more sustainable process.

Faster, Greener, and Cost Effective Battery Material

6K Energy has developed a unique process to produce a range of battery material for EVs, grid storage and consumer electronics. Tackling many of the issues of today's legacy production technologies including supply chain, cost and an overall environmentally unfriendly process. The current process for battery material manufacturing is co-precipitation which generates large amounts of pollutants, consumes huge amounts of water, and uses energy-intensive processes that take 2-3 days for production. By contrast, the UniMelt technology produces material in as low as 2 seconds and produces zero hazardous waste, nine times reduction in water usage, and drastically lower power usage.

UniMelt vs. Co-Precipitation

 **90%** reduction in water usage

 **ZERO** waste water

 **REDUCTION** in energy and CO₂

KEY FACTS

3 **Business Divisions**
6K, 6K Additive and
6K Energy

165+ **Employees**
with aggressive
expansion through 2026

>\$250M **Funding**
secured and committed

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

400 **Metric Tons Capacity**
annually for additive
manufacturing powder

181 **Active Patents**
across portfolio
of products



World's First Sustainably Produced Premium AM Powder



6K Additive is currently in full scale production with the UniMelt technology using scrap material and used powder as feedstock to produce the world's first premium powder derived from sustainable sources for additive manufacturing. Our premium powders are being used in aerospace, medical and industrial applications where the need for superior powder that is highly spherical is paramount. Through the power of UniMelt, 6K Additive provides limitless material combinations allowing customers to design with infinite possibilities.

UniMelt Vs. Gas Atomization

 **91% energy reduction**

 **92% carbon emissions reduction**

* Production of Nickel Alloys

These tangible technologies and commercial developments have attracted significant talent to 6K that includes a world class technical leadership team, iconic board of directors and advisors as well as strong industry partnerships and government support. With 6K's focus on sustainable production and enhancing domestic supply chain initiatives we are poised to disrupt the current manufacturing processes for battery material production and additive manufacturing powders. With announcements like 6K Energy's partnership with Cirba Solutions for recycling and upcycling end of life battery material to 6K Additive's announcement of the production of refractory metals for AM, 6K and its operating divisions will set the watermark for sustainable manufacturing to advanced materials for years to come.

HIGHLIGHTS



STATE-OF-THE-ART
production facility for
6K Additive in PA



**BATTERY CENTER
OF EXCELLENCE**
for 6K Energy in MA



**LOCAL SUPPLIERS
AND CONTRACTORS**
in both MA and PA



**LOCALLY DESIGNED
AND MANUFACTURED**
equipment and process



**LEADERS IN
SUSTAINABILITY**
for AM powders and
performance battery
materials

STRONG EXECUTIVE LEADERSHIP AND BOARD

(Few key members)

Dr. Aaron Bent, CEO 6K
Sam Trinch, President 6K Energy
Frank Roberts, President 6K Additive
Joe Kennedy III, Board of Directors
Ed Liddy, Board of Directors
Jeremy Bezdek, Board of Directors
Bob Galyen, Advisory Board
Dr. Joe Felter, Advisory Board
Magnus Rene, Advisory Board

KEY INDUSTRY PARTNERS

Cirba Solutions
Our Next Energy (ONE)
Albermarle Corporation
Incodema3D
Morf3D
Freemelt AB



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