Media Fact Sheet

FAST FACTS

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FOUNDED

2020

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FOLLOW US!

Piersica is poised to become a leading supplier in the battery energy market, aiding the world's critical shift away from traditional power sources toward a more sustainable future.

ABOUT US

Piersica is a battery technology company developing groundbreaking solid-state lithium-based batteries that will revolutionize energy storage. Using proprietary new materials and components and leveraging cutting-edge technologies, Piersica produces ultra-high energy density batteries for a wide range of current and future applications.

Piersica's next-generation battery will generate an energy density in excess of 600 Wh/kg, more than double that of existing lithium-ion batteries. The company's innovative approach will enable unprecedented, extended battery life and exceptional safety in consumer electronics, electronic vehicles, drones, energy storage and more.

WHY OUR APPROACH IS GROUNDBREAKING

It is very difficult to double the energy density of a lithium-ion battery. Since 1990, more than 35 years into the commercialization of lithium-ion batteries, the industry has progressed from an energy density of 150 Wh/kg to only approximately 280 Wh/kg. With an energy density of more than 600 Wh/kg, Piersica's battery technology will be a revolutionary change to the battery industry—dramatically improving existing uses and enabling an entirely new generation of products.

WHAT MAKES OUR TECHNOLOGY DIFFERENT?

Piersica's cell design leverages two key technological advancements:

1- Development of a new material specifically for the battery industry—a proprietary, highly conductive polymer—that enables better cathode binders and the industry's first all-solid separator; and
2- Creation of a revolutionary 3D lithium-metal anode mat that provides a significantly greater surface area for high capacity and fast charging.

These technological advancements, in combination with the ability to incorporate the next-generation, carbon-free Cathode Active Material into its cell, allow Piersica's batteries to achieve an unprecedented energy density.

APPLICATIONS

- **Electric vehicles** (EVs)
- **Consumer products:** virtual reality, mobile phones, iWatch, iPads, digital notepads/readers
- **Drones:** delivery, military, commercial
- **Internet of Things** (IoT)
- **Energy storage:** solar, wind, renewable
- **Aerospace:** aircraft, satellites
- **Medical devices:** pacemakers, insulin pumps
- Other **industrial & military** applications

MARKET OPPORTUNITY

The global battery market is expected to reach $300 billion by 2030 and is anticipated to grow at a CAGR of 16% thereafter. The strong projected growth of this massive market is due in part to the ability of ultra-high energy density, lightweight batteries to enable new markets, such as electric airplanes, long-range drones, and robots, that are not feasible using today's heavier lithium-ion batteries.