

INTRODUCING

# THE WORLD'S FIRST LITHIUM-SULFUR 18650 BATTERY

## The LytCell EV™ 18650

Accelerating the ICE to BEV Transformation with  
Greater Specific Energy than Li-ion

THE ULTIMATE LITHIUM-SULFUR (Li-S) BATTERY  
powered by Lyten 3D Graphene®

- 3X greater specific energy density than traditional lithium-ion (Li-ion)
- Increased electric vehicle range
- Safer than Li-ion and solid-state batteries
- Design advantages with up to 50% lighter cells
- Fully U.S.-based sourcing and manufacturing supply chain
- Faster charge rates
- Operating temperatures ranging from -30° C to +60° C
- Cycle life greater than 1,400 cycles (1C at partial DOD)
- The lowest carbon footprint and cobalt-free and nickel-free design
- Can be produced in cylindrical, pouch, and prismatic formats and sizes



Depiction of Lyten Battery

MADE IN THE USA

### ABOUT LYTEN

Lyten is an advanced materials company developing a revolutionary Lithium-Sulfur battery technology for use in a variety of applications in the automotive, aerospace, defense, commercial vehicle, and off-highway markets. Lyten 3D Graphene® is the material that will enable Lithium-Sulfur batteries to dramatically improve the range and safety of electric vehicles, while also having the lowest carbon footprint of any EV battery

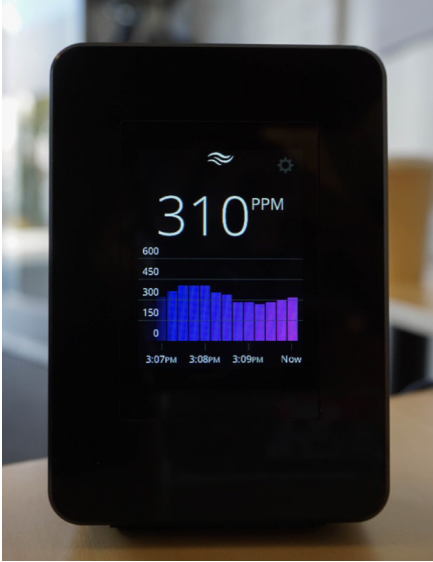
Founded in 2015, Lyten is a privately held company based in San Jose, California.



lyten.com

# LYTEN SENSORS

## INDUSTRIAL, HEALTH, & SAFETY



Lyten Sensors are designed to monitor cabin air quality for harmful gases like carbon monoxide, CO2 refrigerant leaks, and battery off-gases for electrolyte leak and early thermal runaway detection. Key benefits of the multivariate 3D graphene sensor will include:

**Early Warning:** Multivariate sensor array can predict failing batteries and be integrated into the BMS system to avoid thermal runaway and catastrophic events.

**Reduced False Positive:** Lyten 3D graphene sensor array can chemically fingerprint battery off-gas mixtures.

**Universal Sensor:** Simultaneous detection of multiple gases to detect early off-gas events regardless of the battery chemistry.

**Flexibility:** A small form factor allows the placement of the sensor on any configuration.

# COMPOSITE SYSTEMS

## AUTOMOTIVE & INDUSTRIAL LIGHTWEIGHTING

Lyten designs and engineers patented Lyten 3D Graphene® for various composite applications. Composite system improvements enabled by Lyten 3D Graphene will include increased strength and stiffness, decreased weight, as well as improved thermal and electrical properties. Lyten multifunctional composites are designed to deliver the optimal combination of these attributes for various polymer systems.

- Current systems: PE, PP, PA 6, PA 66, among others
- + 50% mechanical improvement potential [over incumbent]
- Multifunctional properties: mechanical, thermal, electrical
- Industrial scalable solutions
- Manufacturable via current supply chain

