



Safe

Lead batteries are a safe, reliable and trusted technology for everyday energy storage.

Safe for Diverse Applications

For decades, lead batteries have safely powered the transportation, communication, security, logistics, medical, marine and aviation sectors.

- + The world **entrusts 75 percent of its rechargeable energy storage** needs to lead batteries.¹
- + Lead batteries help to safely transport **millions of people** in the EU every day.
- + Consumers can feel confident that lead batteries are a **safe energy source**, when used properly:
 - An aqueous electrolyte prevents battery fires.
 - Lead batteries can withstand up to a 75°C under-hood temperature. (Some newer battery technologies are known to combust at temperatures over 55°C.)
 - Lead batteries are the only storage technology that can reliably operate in conditions as cold as -30°C.²

Safe for Employees

The lead battery industry puts employee health and safety first, meeting or exceeding federal and state requirements.

- + The **lead battery industry exceeds occupational safety and health standards** by providing **progressive** safety training, on-site hygiene facilities and **modern** safety equipment, including state-of-the-art engineering controls.
- + For many years the lead battery manufacturing and recycling industry has made continuous reduction in employee lead exposures a priority³. At the end of 2016 average employee blood lead levels were **more than 80 percent below the existing EU binding biological limit value**.⁴
- + Manufacturers and recyclers use high-efficiency systems to filter facility air to **ensure a safe workplace atmosphere**.

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Lead battery technology is **proven, straightforward and well understood.**



Modern, closed-loop recycling **keeps more than 100 million lead batteries** from landfill sites in Europe each year.

Vital Power: Advanced Lead Batteries



Safe



Innovative



Sustainable



Essential

Learn more at EssentialEnergyEveryday.eu



Essential Energy Everyday exists to increase awareness of the critical importance of lead batteries in powering our daily lives. We encourage continued investment in sustainable lead battery technology to store and provide energy on demand. Our initiative is supported by the two global trade associations that represent the lead battery and lead industries, **Battery Council International** and the **International Lead Association**.

¹ *The Rechargeable Battery Market and Main Trends 2014–2025*, Avicenne Energy, March 2015

² *A Review of Battery Technologies for Automotive Applications*, Joint Analysis: EUROBAT, ILA, JAMA, KAMA, ACEA, 2014

³ *Lead and lead battery industries announce ambitious new targets to protect workers*, EUROBAT, 2017

⁴ **COUNCIL DIRECTIVE 98/24/EC**, Official Journal of the European Communities, 1998