

Growth in the U.S. Lead Battery Industry

POWERING OUR ECONOMY



The U.S. lead battery industry makes a \$26.3 billion economic impact annually.

Creating National Job Growth

Nearly **25,000** direct jobs.



A **20% increase** in reported direct jobs since 2016.¹

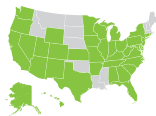
Over **92,000** total jobs

attributed to the lead battery industry.



Compared to other private sector jobs, average salaries in the lead battery industry are:

- **96% higher** for recycling and mining workers
- **28% higher** for manufacturing workers



Providing **direct jobs** in **38 states**.

In 2018, the lead battery industry **invested over \$100 million** in research and innovation.

Transporting and Connecting Our World

Lead batteries power **more than 275 million** cars and trucks in the U.S., delivering people to jobs, education and healthcare.²



Lead is the dominant battery chemistry used to support a **U.S. communications infrastructure worth more than \$1 trillion**.

Approximately **60%** of all forklifts in the U.S. use lead batteries to move the materials that fuel our economy.³



Feeding a Circular, Greener Economy

The **U.S. recycles over 99%** of its spent lead batteries.⁴ A national network of manufacturers and recyclers support a use-reuse circular economy and green jobs.



Worldwide, **nearly 100%** of mass-produced hybrid and full-electric vehicles use a lead battery.



Over 70% of the world's rechargeable energy storage needs, including the booming renewable energy sector's requirements, are met by efficient lead batteries.⁵

Start-stop technology utilizing lead batteries is **eliminating 4.5 million tons** of greenhouse gas emissions annually in the U.S.⁶



Unless noted, all economic data in this graphic is sourced from "Economic Contribution of the U.S. Lead Battery Industry," Battery Council International, Sept. 2019.

¹ A direct comparison with 2016 data is 7% growth and a 20% increase overall when combining direct growth with transportation and distribution jobs, which some respondents did not include in the previous survey.

² Vehicles-in-Operation, IHS Markit, April 2019

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³ Top 20 Lift Truck Suppliers in 2019: Market Reaches New Heights, *Modern Materials Handling*, 2019

⁴ *National Recycling Rate Study*, Battery Council International, 2017

⁵ *The Rechargeable Battery Market and Main Trends 2018-2030*, Avicenne Energy, May 2019

⁶ Consortium for Battery Innovation, 2019

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