

Economic Contribution of the U.S. Lead Battery Industry

As a prominent provider of domestically sourced energy storage, the U.S. lead battery industry substantially impacts the economic wellbeing of the nation. The industry annually contributes nearly \$33 billion to the national economy and supports more than 121,000 American jobs, including more than 38,000 direct jobs in six areas: battery manufacturing, lead recycling, transportation and distribution, mining, battery services (e.g., installation, maintenance, wholesale), and research and development. Collectively, the U.S. lead battery industry is helping the U.S. to meet its electrification goals with sustainable, reliable, and secure energy storage.

Providing a Diverse Mix of High-Paying U.S. Manufacturing Jobs & Careers

Across 38 states, the lead battery industry provides stable, good-paying jobs and makes a positive economic impact. Production occupations account for more than one half of all jobs. High-skilled engineers, managers and administrators account for one quarter.

Supporting More than 121,000 American Jobs		
	Direct Impact	37,490 jobs, plus 742 R&D jobs
	Supplier Impact	37,400 supplier jobs (goods and services purchased by the industry)
	Worker Spending Impact	45,720 jobs from broader economic activity

Wages That Surpass Other Industries

The lead battery industry pays high wages. Compared to other private sector jobs, average salaries are:

- ⊕ **36% higher** for recycling and mining workers (\$82,600).
- ⊕ **25% higher** for manufacturing workers (\$75,700).
- ⊕ **\$81,000 average salary** across all lead battery sectors.
- ⊕ **\$8.5 billion total** in labor income.

“ In 2021, the lead battery industry paid over \$3 billion in wages. Companies with activity in the lead battery industry directly create jobs ... located in every region of the country. ”

— “Economic Contribution of the U.S. Lead Battery Industry in 2021” study, Battery Council International



Additional Economic Benefits

The activity of the lead battery industry generates additional impact that helps bolster the national economy.

- + **\$13.7 billion** in GDP.
- + **\$2.97 billion** in tax revenue (\$1.81B federal; \$1.16B state and local).
- + **Nearly \$113 million** in R&D investments.

Supporting a Low Carbon Future

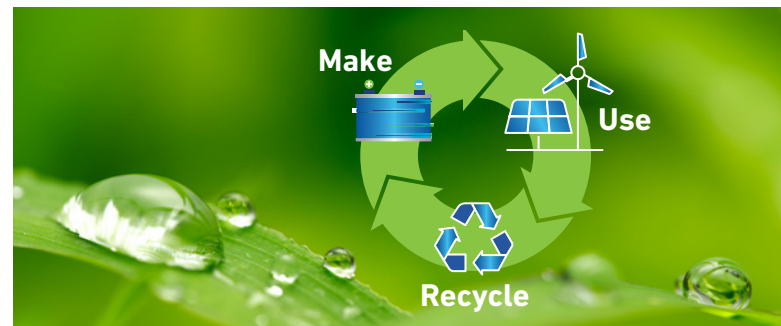
Lead batteries play a critical role in helping our country meet aggressive decarbonization goals. The technology is a major source of energy storage for the electrification of transportation and renewable energy.

- + **Nearly 100%**: Percent of mass-produced hybrid and full-electric vehicles that use a lead battery for critical functions.
- + **EV Fast Charging Stations**: Lead batteries provide a highly sustainable, domestically sourced energy storage solution to grow fast-charge availability.
- + **Supplying 50%**: Amount of global energy storage needs, including renewable energy, met by efficient lead batteries.
- + **6.7 million**: Tons of greenhouse gas emissions eliminated annually in the U.S. by start-stop technology enabled by lead batteries.

Domestic Infrastructure Advances Circularity & National Security

The strong domestic infrastructure and cradle-to-cradle circular economy of lead batteries puts them among the most environmentally sustainable consumer products. They ensure a resilient, secure supply chain for manufacturing new lead batteries, with reduced dependence on critical materials from foreign countries.

- + **+165 GWh**: Annual lead battery manufacturing capacity provided by ready-to-scale U.S. manufacturers.
- + **99%**: U.S. lead battery recycling rate.
- + **+83%**: Amount of lead U.S. lead battery manufacturers source from North American recycling facilities.
- + **80% Recycled Material**: Typical composition of a new lead battery.
- + **+160M**: Number of lead batteries kept from U.S. landfills and processed into new raw materials for U.S. manufacturers.



* “Economic Contribution of the U.S. Lead Battery Industry in 2021,” compiled by EBP US for Battery Council International.

BATTERY COUNCIL INTERNATIONAL Formed in 1924, BCI joins together battery manufacturers and recyclers, marketers and retailers, suppliers of raw materials and equipment, and battery distributors from across North America and around the world. BCI members are committed to responsible manufacturing and recycling processes, and serve as a unified voice for environmental, health and safety stewardship.

Learn more at BatteryCouncil.org

Visit BatteryCouncil.org/sources to view source information.
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