

# THE U.S. LEAD BATTERY INDUSTRY BY THE NUMBERS

Lead batteries connect, power and protect our everyday energy needs and they are a proven technology with over 160 years of unmatched resiliency and reliability. They power innovative, safe energy storage solutions across the U.S. and are critical to a low carbon future.

**+206** GWh

Annual North American lead battery manufacturing capacity within a robust, ready-to-scale infrastructure.

**121K** Jobs

U.S. jobs supported by the lead battery industry.

**50%**

Global market for rechargeable batteries supported by lead batteries.

**+66,000** MWh

Predicted lead battery global market growth 2021-2030.

## Powering Our Energy Future

Reliable and resilient domestic sourcing for energy storage provides protection from global disruptions and helps to stabilize the grid.

**~90%**

Domestic lead battery demand met by North American manufacturers.

**+83%**

**Market Fulfillment**  
The amount of lead demand met by North American lead battery recyclers.

**49**

**U.S. Facilities**  
The number of U.S. manufacturing and recycling facilities.

**300K+**

**Retail distribution and collection sites** that are part of a robust infrastructure.

[LEARN MORE ABOUT THE SUPPLY CHAIN](#)

## A Model of Sustainability and Circularity

Lead batteries are the most environmentally sustainable battery technology.

**100%**  
**Recyclable Components**

A lead battery's three main components are infinitely recyclable.

**+160M**

**Recycled Annually**  
The number of lead batteries kept from landfills in the U.S.

**#1** Lead batteries are the most recycled consumer product in the U.S.



**99%**  
**of lead batteries are safely recycled**

in an established, coast-to-coast network of advanced recycling facilities, far surpassing any other battery chemistry including lithium-ion (<15% recycled).

## Essential Energy for Today and Tomorrow

Lead batteries are an irreplaceable link to connect, protect, transport and power our way of life.



**88%**  
Lead batteries provide 88% of the backup power required for 24/7 telecommunications.

### Connecting Our World

**90%** of Demand

Their reliability, cost and safety make lead batteries the dominant choice for the UPS battery market, meeting 90% of demand.

### Protecting Our Lives



Lead batteries support the **backup recovery systems** that protect lives, investments and data in an emergency.

**Every U.S. mass-produced car and truck** (more than 290 million), including every electric vehicle and approximately **60% of all forklifts**, contains and relies on lead batteries.



### Transporting Our Economy



**+3%** Expected growth of the 12V lead battery automotive market between 2020-2030 and a market value of \$30.1B.

**90%** Motive power battery demand in applications such as forklifts, is met by lead batteries.



[LEARN MORE ABOUT USES AND APPLICATIONS](#)

## Advancing Lead Batteries for New Applications

Scientists are actively working to unlock the full potential of lead battery technology.

**50+** **Research projects** innovating next-gen battery technology.

Cutting-edge research with the U.S. Department of Energy's **Argonne National Laboratory** to accelerate battery innovation.



The **Department of Energy** includes lead batteries among storage technologies receiving high-profile attention for grid energy storage.

Learn more at [BatteryCouncil.org](https://BatteryCouncil.org)

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