Our Environmental Accomplishments

Lead Smelting
Our EPA- and Pennsylvania Department of Environmental Protection-permitted smelter recycles over 200 million pounds of lead per year.

Acid Reclamation
East Penn’s acid reclamation plant was the first in the industry. This patented process recycles millions of gallons of acid each year, diverting this material from landfills.

Plastic Recycling
Plastic battery cases and covers are cleaned, ground, and made into plastic pellets that are extruded into new parts and parts are used in injections molding facilities. East Penn recycles over 11 million pounds of plastic per year.

Our Environmental Protection Plan

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Environmental, Health & Safety Certifications, Awards, and Recognitions

• Brake Drum system installed in 1993 to comply with 1990 EPA environmental requirements.
• The Pennsylvania Constitution for Outstanding Environmental Excellence.
• American Society of Safety Engineers (ASSE) Industrial Safety Award.
• Environmental Stewardship Award, Pennsylvania Institute for Children’s Environmental Health.
• Healthcare Heroes – 2014 Corporate Achievement Award by Lehigh Valley Business.

Our Environmental Protection Plan

Our Environmental Protection Plan

Our Environmental Protection Plan

Who We Are
Since day one, East Penn has made safe recycling an everyday practice. East Penn opened a battery recycling facility in 1938. Today the company is now designing building and producing innovative, safe, and recyclable products that remain environmentally sound throughout the entire recycling process. East Penn continues to set the standard for the safe recycling of spent batteries.

What We’ve Done
The centerpiece of East Penn’s commitment to the environment can be found in our product stewardship principles that include a continuous product life cycle approach. At our state-of-the-art recycling facility we process approximately 30,000 batteries per day. Our computer-controlled, closed-loop system, co-located with our manufacturing facilities, recycles virtually 100% of each spent battery received for processing. The processed lead, combined with other premium grade recycled lead, is used to manufacture new batteries. The plastic, acid, and other materials are recycled and reused within the manufacturing process.

Where We’re Going
East Penn continues to lead the industry through innovative recycling, environmental protection, and proactive continuous improvement. The company is also leading in areas like “green” processes with waterless, energy-saving processes, renewable energy integration, solar and wind energy, and other green initiatives that help conserve energy and reduce CO2 emissions. The company has also been recognized by local, state, and national organizations for its environmental achievements.
Our Environmental Protection Plan

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Acid Reclamation
East Penn’s acid reclamation plant was the first in the industry. This patented process recycles millions of gallons of acid each year, diverting the material away from potential hazardous disposal.

WHO WE ARE
Since day one, East Penn has made safe recycling an everyday practice. East Penn opened its doors as a battery rebuilding company almost three quarters of a century ago. Today, the company has never stopped building on its expertise, infrastructure, capabilities, and commitment. This continuous commitment has made us the most progressive manufacturer in environmental protection and technologically advanced battery recycler throughout the entire industry. It also continues to give our customers the critical reassurance of safe battery recycling without the worry of debilitating fines, penalties, or paperwork associated with hazardous waste disposal.

WHAT WE’VE DONE
The centerpiece of East Penn’s commitment to the environment can be found in our product stewardship principles that include a continuous product life cycle approach. At our state-of-the-art recycling facility, we process approximately 30,000 batteries per day. Our computer-controlled, closed-loop system, co-located with our manufacturing facilities, recycles virtually 100 percent of each spent battery received for processing. The processed lead, combined with the other premium-grade recycled lead, accounts for approximately two-thirds of all lead used in the manufacture of new batteries. Each of the three major battery components (lead, plastic, and acid) are safely recycled and used in making new energy storage devices.

WHERE WE’RE GOING
East Penn continues to lead the industry through innovative recycling, environmental protection, and proactive continuous improvement. The company is also helping to make a “greener” tomorrow with new breakthroughs in advanced battery products. These products serve critical roles in Hybrid Electric Vehicles, Renewable Energy Integration, Smart Grid Services, and other power solutions that are highly recyclable, conserve energy, and reduce CO2 emissions.

Our Environmental Accomplishments

Recycling Capabilities and Environmental Accomplishments

Who We Are
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Environmental, Health & Safety Certifications, Awards, and Recognitions
• Entire 520-acre complex certified to ISO 14001:2004 environmental requirements
• Environmental Citizen Award for Outstanding Environmental Excellence
• American Society of Safety Engineers (ASSE) Industrial Safety Award
• Environmental Stewardship Award, Pennsylvania Department of Environmental Protection
• Health care provider - 2014 Keystone Challenger Award from the Department of Health
• Pennsylvania Lake Environment Association - 2015 Individual Think Green Award

Plastic Recycling
Plastic battery cases and covers are cleaned, ground, and made into plastic pellets that are used to make new plastic parts. East Penn recycles over 11 million pounds of plastics per year.
Our Environmental Accomplishments

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Acid Reclamation
East Penn’s acid reclamation plant was the first in the industry. This patented process recycles millions of gallons of acid each year, diverting this material from hazardous waste disposal.

Plastic Recycling
Plastic battery cases and covers are cleaned, ground, and converted into plastic pellets for use in molded very new and rare parts and on our six injection molding lines. East Penn recycles over 11 million pounds of plastic per year.

Environmental, Health & Safety Certifications, Awards, and Recognitions
- Brian Stuhlsats received the 2003-2004 environmental excellence award.
- The Pennsylvania Cleaner Fuels for出租车ing Environment Award.
- American Society of Safety Engineers (ASSE) Industrial Safety Award.
- Environmental Leadership Award, Pennsylvania Institute for Children's Environmental Health.
- Healthcare Heroes – 2014 Corporate Achievement Award by Lehigh Valley Business.

Our Environmental Protection Plan

Where We’ve Been
Since day one, East Penn has made safe recycling an everyday practice. East Penn opened its doors as a battery recycling company almost three-quarters of a century ago. Today, the company has never stopped building on its expertise, infrastructure, capabilities, and commitment. This continuous commitment has made us the most progressive manufacturer in environmental protection and technologically advanced battery recyclers throughout the entire industry. It is our contention to offer our customers a virtually hazardous waste-free recycling option of everything from batteries, motors, or Scrap associated with the production and disposal of these products.

What We’ve Done
The centerpiece of East Penn’s commitment to the environment can be found in our product stewardship principles that include a continuous product life cycle approach. At our state-of-the-art recycling facility, we process approximately 30,000 batteries per day. Our computer-controlled, closed-loop system, co-located with our manufacturing buildings, recycles virtually 100 percent of each spent battery it receives. The processed lead, combined with other premium-grade recycled lead, is used to manufacture new batteries, recycling millions of dollars of lead, precious, or Scrap associated with the production and disposal of these products.

Where We’re Going
East Penn continues to lead the industry through innovative recycling, environmental protection, and proactive continuous improvement. The company is also helping to make “green” energy, with our patented Renewable Energy Integration, Smart Grid, and other proven solutions that are highly reliable, cost-effective, and reduce CO2 emissions.
A Closed Loop System of Sustainable Reuse

Reclaiming Resources

Lead
East Penn built the battery industry’s first acid reclamation plant. The reclaimed acid is used in new batteries. Used plastic is reclaimed and processed to be remolded into new cases and parts for new batteries.

Plastic
Used polymer (plastic) is also recycled. Battery cases and covers are cleaned and sent to a new reprocessing facility where they are milled into new cases and parts.

Acid
East Penn scientists invented the patented process that captures lead from spent batteries and processes it with steam energy and direct injection into a new electrolyte mixture to create new electrolyte for new energy storage devices. At the acid reclamation facility, East Penn reclaims sulfuric acid from spent batteries for use in new cases and covers. Over 24,000 tons of this solution is sold to make fertilizer for agricultural use each year.

Pure Water, Pure Air

Innovative Purification Processes

Wastewater
Thousands of gallons of wastewater are chemically treated each day. Pretreated wastewater is distilled, recovered, and cleaned. This purified water is ideal for reuse in manufacturing facilities in cold weather. Sulfur fumes generated during the smelting process are captured and reprocessed into a liquid nitrogen sulfur solution. Over 24,000 tons of this solution is produced each year. The facility is certified as fully compliant with Environmental Protection Agency and the Pennsylvania Department of Environmental Protection standards. Excess heat from our manufacturing processes is used to supply hot water to on-site injection molding facilities and drying systems, reducing the amount of virgin materials needed.

Emissions Control

Throughout our facilities, East Penn employs the most advanced control technology available to reduce both emissions and energy usage. The latest version of the Lead Battery Technology (LBT) that East Penn is constantly improving to be more than a quarter century old. Today’s state-of-the-art LBT technology is one of the cleanest, most efficient technologies in the industry. East Penn continuously monitors the emissions and water usage at all facilities. Excess heat from our manufacturing processes is used to supply hot water to on-site injection molding facilities and drying systems, reducing the amount of virgin materials needed. These scrubbers eliminate sulfur dioxide emissions, which can cause acid rain.

Emissions are constantly monitored by community and on-site monitors. East Penn continuously monitors air quality from testing stations in the surrounding community and on-site monitors.

Innovative Purification Processes

Wastewater treatment
East Penn treats and reuses wastewater from its manufacturing processes in an ultramodern wastewater treatment plant that is unique within the industry. An exclusive patented system of distillation, reverse osmosis, neutralization, co-precipitation, and salt crystallization produces water of exceptional purity, suitable for re-use in the production of new energy storage devices. This zero discharge system recycles over 31.5 million gallons of water per year. The facility also reclaims process wastewater, but also removes all impurities, reclaims sulfuric acid from spent batteries for use in new cases and covers. Over 24,000 tons of this solution is sold to make fertilizer for agricultural use each year.

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Reclaiming Resources
A Closed Loop System of Sustainable Reuse

Lead
- Acid
- Plastic

Lead
- East Penn built the battery industry’s first acid reclamation plant.
- Acid is reclaimed and processed to be remolded into new cases and covers for new batteries.

Plastic
- Polypropylene (plastic) is also recycled. Batteries are used and tested in a refining process, and the end-of-life polypropylene pellets are recovered and cleaned.
- New cases and covers are made from 100% recycled plastic materials.

Acid
- East Penn scientists invented the patented process that combines recycling, refining, and remolding into new energy storage devices.

Wastewater
- East Penn’s water and wastewater facilities have been designed to achieve high standards of environmental protection.
- Water is purified by reverse osmosis before it is released. These scrubbers eliminate sulfur dioxide emissions.

Emissions Control
- East Penn continuously monitors air quality from testing stations in the adjoining community.
- Our lead-in-air levels are consistently below stringent federally regulated NAAQS standards.

Pure Water, Pure Air
Innovative Purification Processes

Lead
- East Penn treated and reuses wastewater from its manufacturing processes in an ultramodern wastewater distillation and treatment plant.

Plastic
- Plastic is reclaimed and reused in the production of brand new products.

Acid
- Acid is reclaimed and used in new batteries.

Wastewater
- Wastewater treatment processes include distillation, reverse osmosis, neutralization, co-precipitation, and salt crystallization to produce water of exceptional purity.

Emissions Control
- Throughout its facilities, East Penn employs the most advanced control technology available to reduce hazardous air emissions to the highest degree possible.

Leads
- East Penn was also one of the first companies in the nation to install a scrubber unit to “scrub” gasses before they are released. These scrubbers eliminate sulfur dioxide emissions.
A Closed Loop System of Sustainable Reuse

**Acid**

Lead

East Penn built the battery industry’s first acid reclamation plant. The reclaimed acid is used in new batteries. Used plastic is reclaimed and processed to be remolded into new cases and covers for new batteries.

Plastic

Lead

Acid

**Plastic Recycling**

Pretreated wastewater is distilled, recovered and cleaned. East Penn was one of the first companies in the nation to install a scrubber unit to “scrub” gasses before they are released. These scrubbers eliminate sulfur dioxide emissions, which can cause acid rain.

Wastewater

**Innovative Purification Processes**

Pure Water, Pure Air

Emissions Control

Throughout its facilities, East Penn employs the most advanced control technology available to reduce harmful emissions to the environment. Effective filtration of particles and the use of high-efficiency particulate air filters (HEPA) in our manufacturing facilities results in lead-in-air levels that are actually cleaner than that found in the surrounding atmosphere.

**Pure Water, Pure Air**

**Innovative Purification Processes**

**Emissions Control**
Reclaiming Resources
A Closed Loop System of Sustainable Reuse

Lead
- Our highly efficient recycling process permits lead reclamation in the recycling process. Over 95% of all leaded batteries purchased from authorized licensees are recycled. East Penn has several facilities dedicated to the acid reclamation process.

Acid
- East Penn was the first to hold exclusive patents to the acid reclamation process.

Plastic
- New cases and covers are made from 100% recycled plastic materials.

Manufacturing process
- Lead is reprocessed for new use in batteries produced at our manufacturing facilities in cold weather. Sulfur fumes generated during the smelting process are captured and reprocessed into a liquid nitrogen sulfur solution. Over 24,000 tons of this solution is sold to make fertilizer for agricultural use each year.

Reclaimed acid
- East Penn built the battery industry’s first acid reclamation plant. The reclaimed acid is used in new batteries.

Pure Water, Pure Air
Innovative Purification Processes

Wastewater
- East Penn treats and reuses wastewater from its manufacturing processes in an ultramodern wastewater distillation and purification facility that is unique within the industry. An exclusive patented system of distillation, reverse osmosis, neutralization, and co-precipitation produces water of exceptional purity, suitable for re-use in the production of new energy storage devices. This zero discharge system recycles over 31.5 million gallons of water per year. The facility not only reclaims process wastewater, but also reduces groundwater use from on-site wells by as much as 100,000 gallons per day. Another East Penn innovation is the recovery of sodium sulfate salt as a byproduct of the water treatment process. This salt is actually cleaner than that found in the surrounding atmosphere.

Air
- Throughout its facilities, East Penn employs the most advanced control technology available to reduce emissions. East Penn is a leader in the control of airborne lead pollution through the use of high-efficiency particulate air (HEPA) filters, which are capable of removing 99.997% of all particles 0.3 microns or larger. These filtration units are 99.997% efficient at .3 microns. These systems produce air quality that meets or exceeds National Ambient Air Quality Standards (NAAQS) standards.

Emissions control
- East Penn’s zero discharge wastewater treatment system is the first of its kind in the battery industry. It recovers and cleans over 31.5 million gallons of water per year. The facility recycles water that is not used in the manufacturing process. East Penn was also one of the first companies in the nation to install a scrubber unit to “scrub” gasses containing sulfur dioxide emissions, which create acid rain.

Environmental Protection Agency and the Pennsylvania Department of Environmental Protection standards. Excess heat from our manufacturing facilities is captured in cold weather. Sulfur fumes generated during the smelting process are captured and reprocessed into a liquid nitrogen sulfur solution. Over 24,000 tons of this solution is sold to make fertilizer for agricultural use each year.
Our Environmental Accomplishments


dust Recycling

Our Penn Electric, which processes scrap lead batteries, is America’s leading lead battery recycler and recovers over 200 million pounds of lead per year.

Acid Recycling

Our Penn Electric’s acid reclamation plant was the first in the industry. This patented process recycles millions of gallons of acid each year, diverting this material from potentially hazardous waste and from potential environmental damage.

Our Environmental Protection Plan

Since day one, East Penn has made safe recycling an everyday practice. East Penn opened its doors as a battery rebuilding company almost three quarters of a century ago. Today, the company has never stopped building on its expertise, infrastructure, capabilities, and commitment. This continuous commitment has made us the most progressive manufacturer in environmental protection and technologically advanced battery recycler throughout the entire industry. It also continues to give our customers the critical reassurance of safe battery recycling without the worry of debilitating fines, penalties, or paperwork associated with hazardous waste disposal.

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WHERE WE’RE GOING

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Environmental, Health & Safety Certifications, Awards, and Recognitions

- Entire 520-acre complex certified to ISO 14001:2004 environmental requirements
- Pennsylvania Superfund Cleanup Leverages Investing Environmental Excellence
- American Society of Safety Engineers (ASSE) Industrial Safety Award
- Environmental Stewardship Award, Pennsylvania Institute for Children’s Environmental Health
- Environmental Stewardship Award, Pennsylvania Water Environment Association
- Healthcare Heroes – 2014 Corporate Achievement Award by Lehigh Valley Business
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WHO WE ARE

East Penn has a long history of making major contributions to a cleaner environment. East Penn opened its doors as a battery rebuilding company almost three quarters of a century ago. Today, the company has never stopped building on its expertise, infrastructure, capabilities, and commitment. This continuous commitment has made us the most progressive manufacturer in environmental protection and technologically advanced battery recycler throughout the entire industry. It also continues to give our customers the critical reassurance of safe battery recycling without the worry of debilitating fines, penalties, or paperwork associated with hazardous waste disposal.

Plastic Recycling

Plastic battery cases and covers are cleaned, ground, and recovered into high-quality monomers. These monomers are then converted into new and repurposed uses in our state-of-the-art recycling facility. East Penn processes over 10 million pounds of plastic per year.

Environmental, Health & Safety Certifications, Awards, and Recognitions

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