EAST PENN'S CLOSED LOOP APPROACH TO ENVIRONMENTAL PROTECTION



pent lead-acid batteries are fed into a massive battery breaker which separates the used lead, plastic

USED LEAD

USED **PLASTIC** PLASTIC

RECLAMATION

USED ACID



E.P.A.-permitted facility.



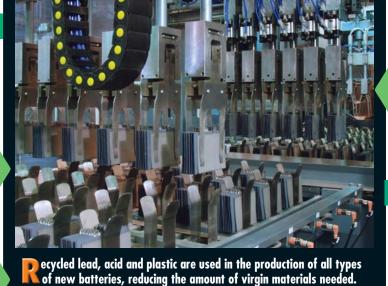




LEAD **PARTICLES** **SULFUR FUMES**

LEAD





STATIONARY USER

sed plastic is reclaimed and molded into cases

and parts for new batteries.

PARTICLES

INDUSTRIAL USER

CONSUMER

INDUSTRIAL AGENT DISTRIBUTOR RESELLER





east Penn is a leading manufacturer of batteries and accessories for the stationary, standby, automotive, industrial, commercial, marine and specialty markets.



ast Penn produces liquid fertilizer from the sulfur fumes trapped during lead smelting. This fertilizer is shipped to fertilizer manufacturers.

HARD AND

LIQUID **FERTILIZER STORAGE**

FERTILIZER MANUFACTURER



ur distribution center holds over half a million lead-acid batteries. We use sophisticated "real-time" order processing computers, laser scanning and bar code technology to track inventory.

WATER PURIFICATION CYCLE



through various manufacturing processes everyday. Much of this wastewater contains lead, oil,

housands of gallons of wastewater are chemically treated each day to neutralize the acid and separate the solids.



WASTE-

WATER

🍞 ecycled materials, such as lead , account for a significant percentage of raw material in East Penn's product line.

WATER FOR

his purified water is ideal for reuse in our battery acid mixing process where pure water

WATER TO



lean water is further purified by reverse osmosis. The water passes through a membrane which separates and removes any remaining solids. The purified water is cleaner



olids are removed from the wastewater,

smelted and refined for lead recovery.

retreated wastewater is distilled and recovered. Distillation allows for the removal of dissolved solids, in the form of crystallized salt.
The recovered water is clean, containin no harmful contaminants.

TEXTILE, DETERGENT & PAPER MANUFACTURER