

Recycling For a Better Environment



Transportation

The same transportation network used to distribute new batteries safely trucks spent batteries from point of exchange to our recycling plants. (Fig.1)

Fig. 1
Transportation network



Spent Batteries

At the GNB recycling facility, spent or "junk" batteries are broken apart and separated into components to begin the recycling process. (Figs. 2-5)

Fig. 2
Junk batteries



Plastic

Plastic pellets recycled from old battery cases and covers are used to manufacture new battery cases and covers. (Figs. 6 & 10)

Fig. 3
Crush the cases and covers



Fig. 6
Plastic pellets



New Covers and Cases

Battery covers and cases are manufactured for new GNB batteries from recycled plastic (Figs. 6 & 10)

Fig. 10

New cases and lids



Lead

Lead ingots recycled from battery grids and lead oxide are used to manufacture new battery grids and components. (Figs. 7 & 11)

Fig. 4
Melt grids

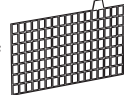
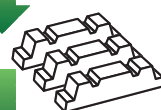


Fig. 7
Lead ingots



New Grids and Lead Oxide

Battery grids are manufactured from recycled lead for use in new batteries. Recovered lead oxide is also used in new battery manufacturing. (Figs. 11-12)

Fig. 11
New grids

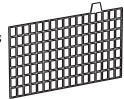


Fig. 12
Lead oxide



Sodium Sulfate

Sodium sulfate crystals separated from old battery acid are recycled and sold for use in textile, glass and detergent manufacturing. (Figs. 8-9)

Fig. 5
Neutralize battery acid



Fig. 8
Sodium sulfate crystals



Fig. 9
Glass, textiles, detergents



New Battery

GNB manufactures new batteries which are 99% recyclable and 87% comprised of previously recycled materials. (Fig. 13)

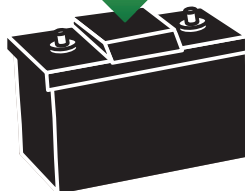


Fig. 13
New batteries