The Process of E-Waste Recycling

Have you ever wondered what happens to your old smartphone, television or computer once you turn them to be recycled? This infographic will help you understand how electronic waste is treated to recover reusable materials and eliminate hazardous waste.

Picking

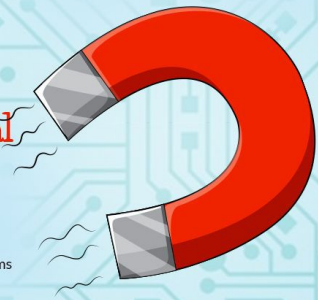
Old and damaged electronic devices and accessories are collected from collection bins or electronics take-back booths. These accessories are then transported to the recycling plants and facilities.

Shredding

At the recycling facility, electronic items are shredded into 100 mm pieces followed by further breaking down the materials into smaller fragments. The sorted fragments later go through a separation process where plastic is removed from metal and internal circuitry.

Magnetic Removal

A powerful overhead magnet separates steel and iron fragments from the waste. Eddy currents, optical identification and other advanced separation technologies are used to separate metallic items aluminium, copper, circuit boards and brass from non-metallic items such as plastic and glass.



Separation by Water

After separating metallic and non-metallic pieces, plastic and glass fragments are separated using water. Visual inspection and hand sorting are also used to improve the quality of extracted materials.

Preparation for Sale

The separated steel, aluminium, copper and brass pieces are prepared for sale as recycled metals. They are used by manufacturers to make new electronic devices or other items. The separated plastic pieces are sorted by colour and sold to plastic recyclers. Lastly, from the separated glass, lead-containing glass is sent to lead smelters that are further used to make products such as new CRTs, X-RAY shields and batteries.

ELECTRONIC WASTE

Being a responsible electronic store in Mississauga, RTC Electronics encourages customers to send their old and damaged electronic accessories for recycling. If not recycled responsibly by using sustainable processes, e-waste can cause damage to human health and the environment.

RTC Electronics

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