

## What is E- Waste Recycling Services And Recycling Process

The [E-waste recycling Services](#) has a significant number of challenges, which the primary one being exporting to developing nations. Exporting e-waste, including hazardous and toxic materials, is leading to serious health hazards for the workers working for dismantling electronic devices in countries without adequate environmental controls. Currently, 50%–80% of e-waste that recyclers collect is exported overseas, including illegally exported e-scrap, which is of particular concern.<sup>6</sup> Overall, the inadequate management of electronics recycling in developing countries has led to various health and environmental problems.



e-waste process while ensuring complete environmental protection and also recovering maximum reusable material out of discarded electronic equipment. Using advanced technology for precious metal recovery, materials such as gold, aluminium, silver, copper is extracted from scraped electronics.

In this blog , the first half describes trends in the amount of e-waste, existing recycling programs, and collection methods. The second half describes various methods available to recover materials from e-waste. In particular, various recycling technologies for the glass, and metals found in e-waste are discussed. For glass, glass-to-glass recycling and glass-to-lead recycling technologies are presented. For plastics, recycling, mechanical recycling, and thermal recycling methods are analyzed. Recovery processes for copper, lead, and precious metals such as silver, gold, platinum, and palladium.

### **E- Waste Recycling Conserves Natural Resources**

There are many materials that can be recovered from old electronics. These materials can be used to make new products, thus reducing the need to mine for new raw materials. For instantly, various metals can be recovered from computer circuit boards and other electronics, and the plastics and glass found in computer monitors and tv can be recycled.

### **E- Waste Recycling Supports the Community**

Donating your old electronics plays an important role in the provision of refurbished products such as computers and mobile phones, which can be great help to low-income families, schools, and not-for-profit organizations. It also helps individuals gain access to technology that they could not have otherwise afforded.

### **E- Waste Recycling Creates Employment Locally**

Considering that around 90 percent of electronic equipment is recyclable, electronics recycling can play a significant role in creating employment.

This is because new firms dealing with electronics recycling will form and existing firms will look to employ more people to recover recyclable materials. This can be triggered by the increase in the demand for electronics recycling.

### **E- Waste Recycling Helps Protect Public Health and the Environment**

Many electronics have toxic or hazardous materials such as mercury and lead, which can be harmful to the environment if disposed of in trashcans. Reusing and recycling electronics safely helps in keeping the hazardous materials from harming humans or the environment. For example, televisions and computer monitors are hazardous since they have lead in them. Printed circuit boards contain harmful materials such as cadmium, lead, mercury and chromium.

Also, batteries in computers and other electronics may contain hazardous materials such as cadmium, mercury and lead. Instead of keeping old electronics in the house or dumping them in landfills, recycling or reusing them is an appropriate option that should be supported by individuals and organizations.

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