



Who is 1800Ewaste?

1800EWASTE is Australia's largest ewaste removal company. All the ewaste products we pick up are recycled at accredited recycling stations and 98% of the product by weight is diverted from landfill.

The company has only been in operation for about 6 months but it is a subsidiary of 1300RUBBISH which has been operating for 14 years and saw the opportunity in the Ewaste market. We have already expanded into most capital cities. We currently service Sydney, Melbourne, Brisbane, Adelaide, Perth, Newcastle and the Gold Coast. In that time we have diverted 1% of Australia's Ewaste from landfill.

1800EWASTE is committed to environmental best practice recycling and the electronic equipment is dismantled by hand and broken up into the following.

- Base Metals - copper, aluminum, brass and steel. All these items are refined in Australia.
- Printed Circuit Boards - green boards containing circuits. These are exported to ISO 14001 approved refineries mainly in Korea.
- ISO 14001 is a global environmental standard; our company will only deliver Ewaste to these companies.
- Plastics - CRT casings etc. These are put on the open market for recycling, containers go w/wide.
- CRT Monitors - Glass is recycled in Australia; the lead contaminated glass is smelted in Australia too.

Some operations deliver Ewaste to 3rd world countries. In these instances children are often used for slave labour. 1800EWASTE will only operate with ISO 14001 approved refineries so as to eliminate any illegal activities such as slave labour or illegal dumping of waste

With an estimated 92.5 million electronic items in households around Australia electronic waste is set to become one of our nation's biggest waste issues. 1800EWASTE is committed raising the bar for electronic waste recycling and we look forward to working with corporate and residential Australia.



What is Ewaste?

Electronic waste or "Ewaste" is waste type consisting of any broken or unwanted electrical or electronic appliance.

Ewaste has raised concern considering that many components of such equipment are considered toxic and are not biodegradable. Responding to these concerns, many European countries banned Ewaste from landfills in the 1990s.

Why 1800Ewaste?

With environmental best practice becoming more vital each day to sustain our natural resources and protect the environment for the future, the recycling of ewaste is paramount. The ever increasing production new technology is producing millions of tonnes of new Ewaste each year and it is everyone's responsibility to contribute to a solution.

1800Ewaste is dedicated to bringing the most competitive prices, service and environmental best practice to each home and business in Australia.

Facts and Figures

- Every year 20 to 50 million tonnes of E-Waste are generated worldwide.
- Australians buy almost 2.5 million computers and more than a million televisions every year
- Disposal of E-Waste in landfills accounts for 40% of lead in landfills.
- E-Waste is generated 3 times faster than any other waste streams.
- 22% of annual world consumption of mercury is used in electronic devices.
- If Australia does nothing in the next 10 years to recycle, reuse or dispose of its redundant computers, 1.7 million cubic metres of obsolete computers will need to be stockpiled or buried.

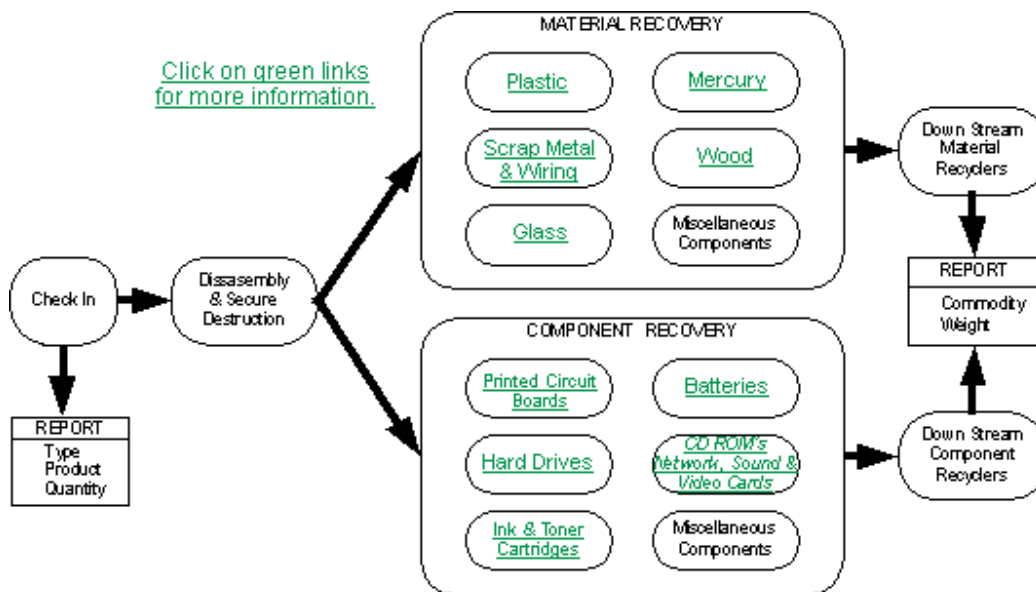
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Ewaste Process for Recycling

To obtain the highest possible result, labour intensive methods are used to completely disassemble and separate items into core materials and components. This allows us to supply our recycling partners downstream with a pure product, free from contamination.



1800Ewaste will NOT:

- Place your equipment in landfill
- Refurbish, sell or give away your items
- Ship to where it may be processed under poor health and safety conditions.

1800Ewaste WILL recycle the following:

Plastic All plastics are sent to a recycler who uses the raw material to manufacture items such as vineyard stakes, fence posts and plastic sleepers.

Metal Scrap metals are sent to a recycler. They are placed through a shredder before magnetic systems separate the ferrous from the non ferrous materials. The resulting product is used in the manufacture of new steel and other metal products.



Glass Cathode Ray Tube (CRT) glass, used in computer monitors and televisions, are a major issue because they incorporate many hazardous materials. Lead is the most prevalent toxic material in CRT glass; it is poisonous to the nervous system and can remain in the human body for years. Tubes in a large CRT monitor can contain up to 3 kg of lead as well as other toxic metals such as phosphor and barium.⁵ To obtain the highest environmental outcome it is necessary to send the glass to where it can be processed to specification before being used in the manufacture of new CRT monitors and televisions.

Mercury is commonly found within many e-waste items. Highly toxic, even in small amounts, it has been known to cause damage to the lungs, kidneys, brain, nervous and reproductive systems. Given the opportunity to leach into water and soil, it is able to be ingested by aquatic creatures and then through the food chain into our diet.⁵ To avoid these consequences, we remove mercury containing devices such as tubes and lamps and forward these to an EPA approved mercury recycling plant. Here they use technology that captures the mercury for use in dental amalgams, separates the glass for use as glass wool in home insulation and takes out the phosphor powder for use in fertilizer products.

Wood Commonly found in older televisions, stereos and speakers, wood is sent to recycling companies who either shred it for use as mulch or use innovative technology to mix it with other waste materials for use as an alternative fuel source.

Printed Circuit Boards Circuit boards are sent to ISO 14001 (Environmental Management) accredited companies. Here they can be processed in specialised smelters to recover non renewable resources such as copper, gold, silver, palladium and other precious metals.

Hard Drives Hard drives, in whole and shredded form, are sent to an aluminium foundry for processing into aluminium ingots. The majority of aluminium ingots are used within the automotive industry.

Toner and Ink Cartridges Toner and Ink cartridges are packaged in a sealed box and returned to industry recyclers. Some will be remanufactured into new cartridges, and the remainder that can't be remanufactured will be separated into plastic and metal and returned to the recycle chain as raw materials.

CD ROMs, Sound & Memory cards For copyright and security reasons these products are shredded before being sent to plastic and metal recyclers.

⁵ Grossman, E. (2006). *High Tech Trash: Digital Devices, Hidden Toxics and Human Health*. Washington, DC: Island Press



Common Ewaste items we remove and recycle

Below is the list of specific Ewaste items we recycle and pick up

Ewaste Items
CPU / Laptop / Server (1 man)
CRT monitors
Archive box peripherals
Small equipment**
Medium equipment*
Medium Printer/ Photocopier - 1 man Lift
Large Printer/ Photocopier - 2 men Lift
CRT TV /Plasma

* and ** please see appendix 1

These items are what we commonly pick up but realistically anything that plugs into power we will collect and recycle.

Appendixes

Appendix 1

Descriptions		
Medium equipment*		Small equipment**
fax	cordless phone	modem
scanner	camera	mobile phone
multifunction	LCD Monitor below 27"	router/ hub / switch
desktop printer	telephones handset	telephone hand set
VCR	Server rack mount - no cabinet	small ups
DVD	Rack mount cabinet empty	
stereo	medium UPS	
	microwave	

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