

\*kgs. recovered per capita; \*\*cost per kg. recovered; 2011-16

## MAKING RECYCLING MORE CONVENIENT

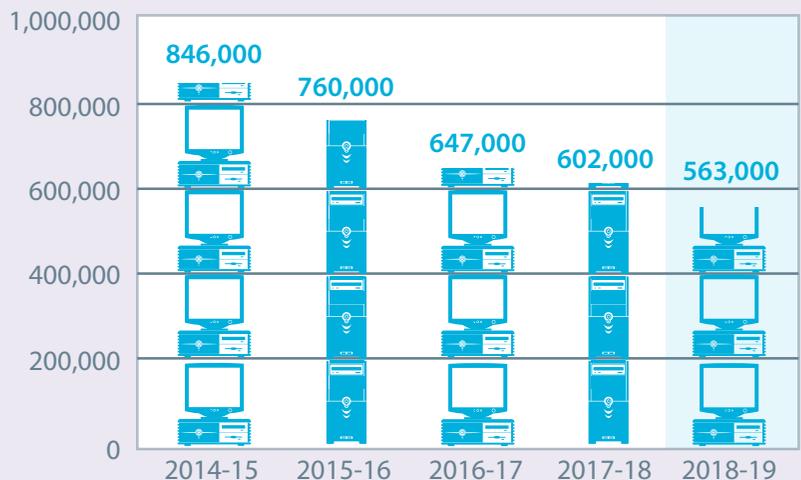
96% of the population live no further than a 20-minute drive from an electronics recycling depot



## RECYCLING RESULTS

This chart presents results over the last four years, with preliminary numbers for 2018-19 (final amount to be reported in fall 2019). The amount recycled this year is 6.5% lower than the prior year, continuing a trend of lower recycling volumes in the electronics industry. As the majority of heavier, older model TVs and monitors have been recycled, increasing numbers of newer, lighter units are showing up for recycling.

**Number of TVs and computer products recycled**



# KEEPING EVEN MORE ELECTRONICS OUT OF THE LANDFILL

The Government of Alberta is considering changes to the Electronics Program that could see over 250 products ranging from small appliances such as microwaves and toasters to vacuum cleaners, curling irons and power tools added to the Program. Albertans have been so committed to recycling their old TVs and computer equipment that in a recent poll they indicated they want to keep more electronics out of the landfill.



of Albertans support expansion of the program

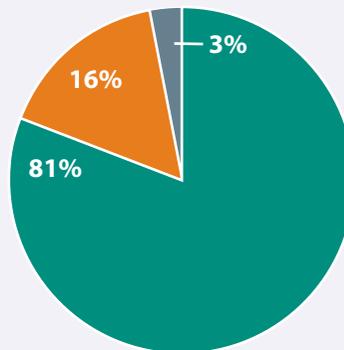
## ENVIRONMENTAL FEES AT WORK

The environmental fees paid on the purchase of new electronics are used to help fund their collection and recycling along with other Program-related costs (see pie chart). There are 1,510 businesses (Suppliers) registered with Alberta Recycling to ensure that these fees are remitted on every TV and computer sold in Alberta.

Alberta Recycling values the commitment of these Suppliers who diligently remit the fees for the recycling of end-of-life electronics.



	<b>TVs, Monitors &amp; All-In-One Computers</b>	
	Less than 30 inches	\$ 4.00
	30 inches or larger	\$10.00
	<b>Computers &amp; Servers</b>	\$ 4.40
	<b>Laptop, Notebook &amp; Tablet Computers</b>	\$ 1.20
	<b>Printers, Photocopiers, Scanners, Fax Machines</b>	\$ 4.80



### How the fees are used

- Recycling Expenditures 81%** (Collection and recycling of electronics)
- Administration 16%** (Program management)
- Recycling Development 3%** (R&D; Program awareness)

## ALBERTANS SUPPORT THE ELECTRONICS RECYCLING PROGRAM

Every year Albertans are polled to measure support for both the Program and the environmental fees charged on the sale of new TVs and computer equipment. This year results indicate Program support remains strong but support for the fees has dropped, in conjunction with the downturn in the Alberta economy. Eight out of 10 people are aware of their nearest recycling depot and in the past year three out of 10 have used a depot to recycle their old TVs and computers. Follow us on Facebook and Instagram (@albertarecycling) and make sure you post a picture of yourself recycling your old computer or TV!

### Annual survey results

	Support for program	Support for environmental fees	Awareness of depots	Have recycled in the past year
2016	89%	53%	88%	39%
2017	81%	51%	85%	27%
2018	89%	47%	81%	32%

# HARD-TO-GET ELECTRONICS PILOT PROJECT

In a recent poll 20% of Albertans indicated they have end-of-life TVs and computer products at home but for various reasons have not recycled them yet. This project encourages schools (K-12 and post-secondary) to engage their community in digging out old electronics and bring them to the school for recycling. In turn, the school receives funding for each unit collected. In 2019/20, this pilot will be evaluated to determine if it should continue in the long term. Following are the results to-date:



**31**  
Municipalities



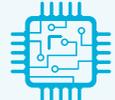
**187**  
Schools



**89,365**  
Students



**\$76,480.00**  
awarded to schools



**10,637**  
TVs and computer products collected

## Curbside collection

For a fourth year, Alberta Recycling has partnered with a municipality to test curbside collection. Residents were invited to leave out their TVs and computer products. To-date 2,092 items have been collected through this program. In 2019/20, this pilot will be evaluated to determine if it should be expanded as a long term project.

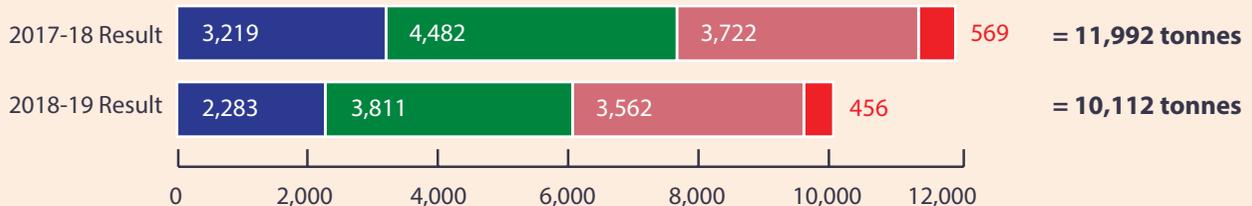
*\*results to-date are preliminary; final amount to be reported in fall 2019.*



**2,092 TVs and computers**  
collected in weeklong curbside pilot

## HOW 9.5 MILLION ELECTRONICS ARE RECYCLED

Registered Recyclers pick up TVs and computer products from business and institutions and from 365 recycling depots across the province. They transport the material back to their facilities (all located in Alberta) where they break down each item, separating the materials into metals, plastic and glass. These commodities are then shipped back into the manufacturing supply chain. Following are results from the past two years, revealing a year-over-year decrease in glass and plastic which could be indicative of a decrease in cathode-ray-tube TVs and monitors available for recycling.



1. 'Other' includes batteries, toner and inks, wire and cables, and wood.

# KEEPING HAZARDOUS SUBSTANCES OUT OF THE LANDFILL

Since 2004, 12,100 tonnes of hazardous material has been safely and properly handled during the recycling process. Following are results from the past two years showing some of the substances of concern diverted from the landfill.

Material	2017-18	2018-19
 <b>Lead (tonnes)</b> Circuit boards, cathode ray tubes, TVs, monitors, CPUs, laptops, and printers.	295	279
 <b>Mercury (kg.)</b> Batteries - general; mercury lamp batteries and switches; laptops	0.31	0.28
 <b>Cadmium (kg.)</b> Circuit boards, cathode ray tubes, insulated wire, TVs, monitors and CPUs	4.31	4.08
 <b>Beryllium (kg.)</b> Circuit boards, TVs and monitors	12.56	11.86
 <b>Antimony (tonnes)</b> Circuit boards, CPUs, laptops, and printers	1.41	1.32



## Data security is a top priority

Once a computer is collected by a registered Recycler, they are responsible to destroy the hard drive (example pictured above) and other storage media. The Recyclers can also provide Certificates of Destruction if requested.



## ENVIRONMENTAL STANDARDS FOR RECYCLERS



An objective of the Electronics Program is to ensure the registered Recyclers operate in an environmentally and socially responsible manner. Annual environmental audits by external experts are conducted to confirm if the Recyclers are following Program requirements. Results are reported annually in a "Compliance Assurance Summary Report" found at [albertarecycling.ca](http://albertarecycling.ca)

Alberta Recycling is a not-for-profit association responsible for managing Alberta's Tire, Electronics, Paint and Used Oil Materials Recycling Programs. The organization is run by a Board of Directors representing various stakeholder groups and is accountable to the Minister of Environment and Parks.

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[albertarecycling.ca](http://albertarecycling.ca)