

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

## MAKING RECYCLING MORE CONVENIENT

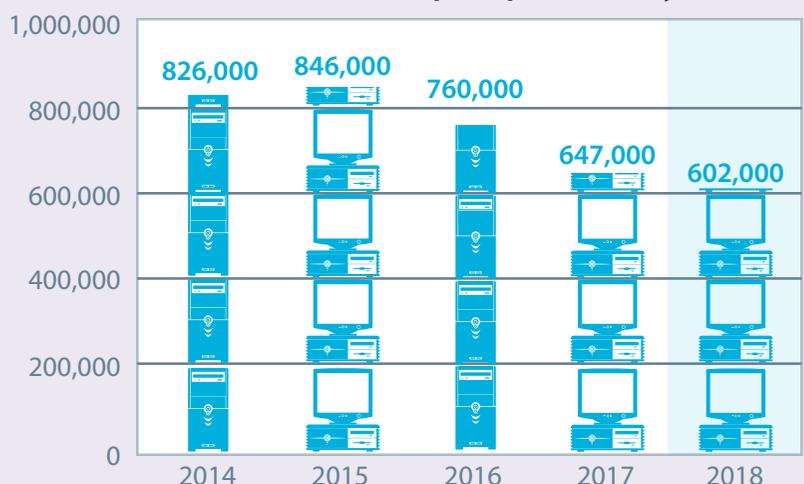
96% of the population live no further than a 20-minute drive from an electronics recycling depot



## RECYCLING RESULTS

The chart presents results for the last five years of the Program. The amount recycled in 2018 was 11% lower than the previous year. Sales of new electronics continued to be lower because of the downturn in Alberta's economy that began in fall 2014. Specifically, unit sales were down 24.2% overall so with fewer new products purchased, fewer end-of-life electronics were discarded by Albertans.

**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 200 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

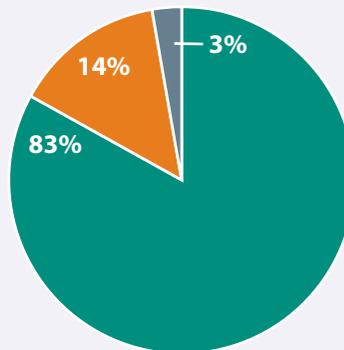
## ENVIRONMENTAL FEES AT WORK

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 1,540 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 83%** (Collection and recycling of electronics)
- Administration 14%** (Program management)
- Recycling Development 3%** (R&D; Program awareness)

## ALBERTANS SUPPORT THE ELECTRONICS RECYCLING PROGRAM

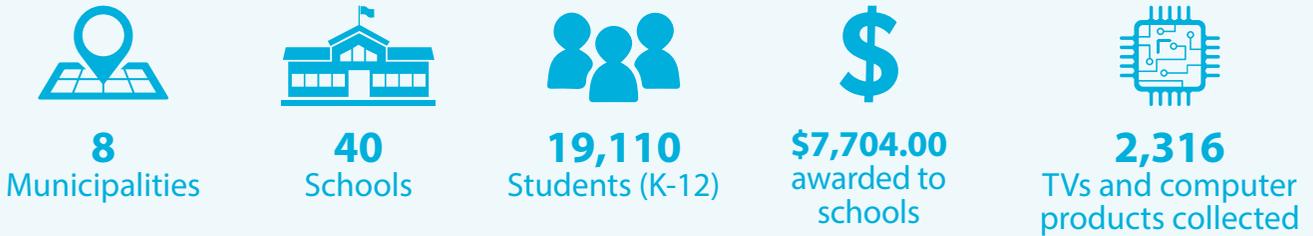
Every year Albertans are polled to measure support for both the Program and the environmental fees charged on the sale of new TVs and computer equipment. This year results indicate Program support remains strong but support for the fees has dropped, in conjunction with the downturn in the Alberta economy. 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 (@albertarecycle) 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	86%	51%	85%	27%
2018	89%	47%	81%	32%

# HARD-TO-GET ELECTRONICS PILOT PROJECT

In a recent poll 30% 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 encouraged schools to engage their community to dig out old electronics and bring them to the school for recycling. In turn, the school received funding for each unit collected. This project continues in 2019 with renewed promotional opportunities to encourage participation. Following are the 2018 results:



## Curbside collection

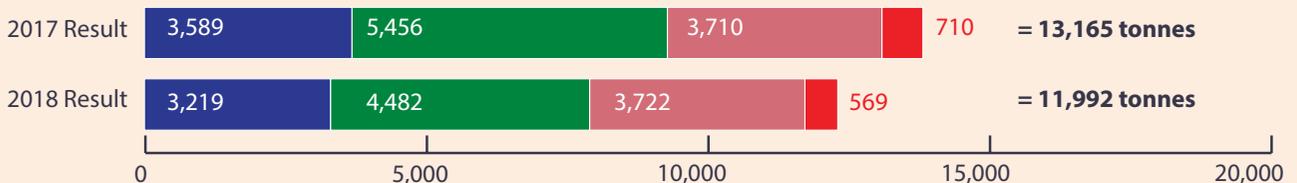
For the third year in a row, Alberta Recycling partnered with a municipality to test curbside collection. Residents were invited to leave their TVs and computer equipment at the curb. This year's event netted 473 units for recycling. The curbside pilot will continue in 2019 in order to gather enough data to measure its viability as a long term project.



**473 TVs and computers**  
collected in weeklong curbside pilot

# HOW 9 MILLION ELECTRONICS ARE RECYCLED

Registered Recyclers pick up TVs and computer products from business and institutions and from 372 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, 11,387 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	2018
 <b>Lead (tonnes)</b> Circuit boards, cathode ray tubes, TVs, monitors, CPUs, laptops, and printers.	341	295
 <b>Mercury (kg.)</b> Batteries - general; mercury lamp batteries and switches; laptops	0.27	0.31
 <b>Cadmium (kg.)</b> Circuit boards, cathode ray tubes, insulated wire, TVs, monitors and CPUs	4.71	4.31
 <b>Beryllium (kg.)</b> Circuit boards, TVs and monitors	14.60	12.60
 <b>Antimony (tonnes)</b> Circuit boards, CPUs, laptops, and printers	1.47	1.41



## 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 and Paint Recycling Programs – and as of October 1, 2018 the Used Oil Materials Recycling Program. 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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