

After RECYCLING

- Energy-from-Waste (EFW)**

Peel converts a portion of its garbage into energy at the Algonquin Power EFW facility. The facility, located in Brampton, processes approximately half of our residential garbage (approximately 130,000 tonnes). The other half is sent to landfill.

With limited landfill space in Ontario, EFW provides an effective and environmentally responsible solution to managing the Region's garbage, while at the same time generating energy. When EFW is included in the Region's waste diversion calculations, we are diverting 70 per cent of waste from landfill.

Steam captured from the EFW process is delivered to a nearby paper mill. All of the steam required by the paper mill is supplied by Algonquin Power.



Innovation in ACTION

- Transforming a closed landfill into a recreational jewel and energy source**

The Region of Peel, in partnership with the City of Mississauga, converted the former Britannia Landfill Site into BraeBen Golf Course, a championship course. As the golf course was developed, the Region of Peel installed a landfill gas recovery system in partnership with Integrated Gas Recovery Services Limited.

A series of collection wells located on the course are used to capture landfill gas, which is piped to a nearby gas-to-electricity facility and converted to green electricity. The electricity is sold at a premium "green power" rate to the Province of Ontario, and the Region receives a share of the revenue.

The landfill gas-to-electricity facility generates approximately 5.5 megawatts of power. This represents enough green electricity to power 5,500 homes on a daily basis for the next 20 years.



Think GLOBAL, Act LOCAL

- Participate**

You can make a big difference in enhancing our community and preserving our environment by participating in all of the Region's recycling programs, and by using Peel's CRCs to safely dispose of your household hazardous waste and other waste items.

Managing our waste

REDUCE

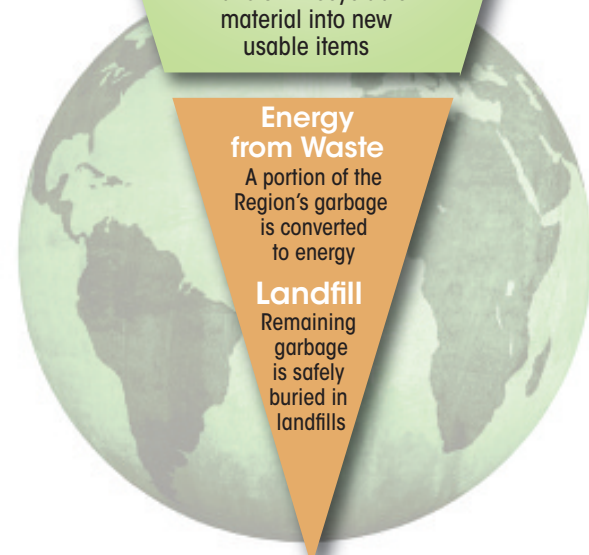
Reduce waste – buy items with less packaging or buy fewer single use items

REUSE

Reuse materials before recycling or discarding, and donate gently used items

RECYCLE

Transform recyclable material into new usable items



Energy from Waste

A portion of the Region's garbage is converted to energy

Landfill

Remaining garbage is safely buried in landfills

We want to hear from you

The Region's population is rapidly growing. Effectively handling the additional waste generated by this growth requires even greater participation in our recycling programs. We need to continually explore changes to existing policies and investigate new and emerging technologies to ensure we effectively manage our waste now and in the future.

We are seeking your input to help us plan for the future of waste management in Peel.

Please visit www.peelregion.ca/waste to fill out a brief questionnaire that will help guide our long-term waste resource management strategy.

The efforts we make today will help to preserve our environment for tomorrow.



Questions?

Call 905-791-9499 or 905-584-2216 in long-distance areas of Caledon.

www.peelregion.ca/waste

Printed on 100 per cent post-consumer waste recycled paper.

WMG-0017 09/07



Saving the environment one collection day at a time



Introduction

- **Managing Peel's waste**

The Region of Peel collects waste generated by 1.2 million residents who live in more than 385,000 households in Brampton, Mississauga and Caledon. Collectively, these households produce more than 445,000 tonnes of waste per year. That's an average of 371 kg (817 lbs.) of waste per resident each year.

What do we do with all of this waste?

We collect it, then either process it or dispose of it in an environmentally responsible manner. Sounds simple, but in fact there is a lot more to it. We need your help in identifying and sorting waste that is too good to be disposed of in landfill. Much of the waste we generate can be turned into new materials, nutrient-rich compost and energy to power our homes and facilities.

9 recycled 2-litre pop bottles can be made into one XL polyester t-shirt.



How do we do it?

It all starts with you. When you make the effort to separate your waste using our recycling programs and services, the process is underway. Each day, the Region of Peel collects blue box, green bin and yard waste material, processes the material and prepares it for market.

The Region also collects garbage. Approximately half of the garbage we collect is turned into energy at an Energy-from-Waste facility in Brampton and the remainder is sent to landfill.

- **Diverting waste from landfill**

Waste diversion refers to the amount of waste that is not sent to landfill for final disposal. Each time your blue box, green bin and yard waste materials are recycled, we're successfully reducing the need for landfill.

Diverting waste also helps reduce your carbon footprint because recycling uses a lot less energy than producing items from raw materials. A carbon footprint is a measure of the impact your activities have on the environment in terms of the amount of greenhouse gases produced, measured as carbon dioxide (CO₂). Greenhouse gases trap heat and contribute to the Earth's climate change.

MORE RECYCLING = LESS GARBAGE = INCREASED WASTE DIVERSION. And this means less need for landfill.

Your efforts to sort and divert waste matter. Landfills are not a sustainable disposal solution for our waste. Sending our waste to landfill is more expensive than recycling and does not promote reduction and reuse programs.

In fact, recycling not only reduces the amount of waste sent to landfill, but it conserves energy and decreases our use of natural resources. It's a win-win situation for you and our environment. Plus, recyclable material is a commodity that is sold to companies who use the material to make new goods.

Recycling 1 aluminum can saves enough energy to run your television for 3 hours.



Past, Present and Future

- **We've come a long way**

Our waste diversion has come a long way since the Blue Box Program was first introduced in Peel in the 1980s.

With your participation in our various reuse and recycling programs, we are currently diverting 50 per cent of our waste from disposal. Another 20 per cent is converted into energy at the Algonquin Power Energy-from-Waste facility.



Recycling matters and everyone can help

- **How we're going to get there**

The Region of Peel uses an integrated approach to managing our waste. A variety of recycling programs and services are used to achieve our diversion target:

- Blue Box Recycling
- Organics and Yard Waste Recycling
- Community Recycling Centres

Your participation in our recycling programs is key to preserving our natural resources.

- **Blue Box Recycling**

Recycling works. With a 90 per cent participation rate in the Blue Box Program, the Region collects approximately 100,000 tonnes of blue box material each year. Recyclable items that you place in your blue box or recycling container are brought to the Region's recycling facility where they are sorted and baled, and then sold to end markets. Recovered recyclable materials are never sent to landfill.


Recyclable material is sold to end markets and turned into new products. Selling recyclable material helps the Region offset the operating costs of recycling.



- **Organics and Yard Waste Recycling**

Organic material, such as food waste and soiled paper products, makes up 30 per cent of your household garbage. Placing organic material in your green bin not only reduces the amount of garbage you set out at the curb, but also keeps food waste out of landfill. Organic material is mixed with yard waste and made into compost. The Region's compost can be bought at Peel's Community Recycling Centres for use as a soil amendment on your lawn and garden.

Composting food waste creates less greenhouse gas emissions than sending it to landfill.



Bring your household hazardous waste to a CRC, free of charge

- **Community Recycling Centres (CRCs)**

CRCs are located throughout the Region and offer recycling and disposal services right in your community. The services offered at the Region's CRCs supplement our weekly collection services.

In addition, you may take most household hazardous waste (toxic, flammable, corrosive and explosive items) to your local CRC for safe disposal, free of charge.

Bring your household hazardous waste, electronics, recyclable and reuse materials to any of Peel's five CRCs.



Donate gently used items at any CRC