

VISION 3: Sustainability ◆

GOAL 2

New York City will send zero waste to landfills by 2030.







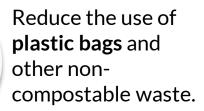




Expand the NYC **organics program** to serve all New Yorkers by the end of 2018.

Make all schools Zero Waste Schools.





Give every New Yorker the opportunity to recycle and reduce waste, including at NYCHA housing.





Expand opportunities to reuse and recycle textiles and electronic waste.



Develop a **Save-As-You-Throw** program to reduce waste.

Reduce commercial waste disposal by 90% by 2030.

Getting to Zero







NYC: Weight of Waste

New York City produces 6 million tons of garbage per year.



Source:

https://www.washingtonpost.com/graphics/2017/world/global-waste/?hpid=hp_hp-visual-stories-desktop_no-name%3Ahomepage%2Fstory&utm_term=.ad598af0fdce#newyork











diversion rate* in 2016

diversion rate goal by 2030

diversion rate*



the percentage of waste diverted from traditional disposal (i.e., landfilling, incineration) to be recycled, composted, or re-used









Trash Journey & Impact







COLLECTION

Picking Up

Every day, more than 6,000 men and women of the Department of Sanitation collect garbage from residences and public buildings in New York City.



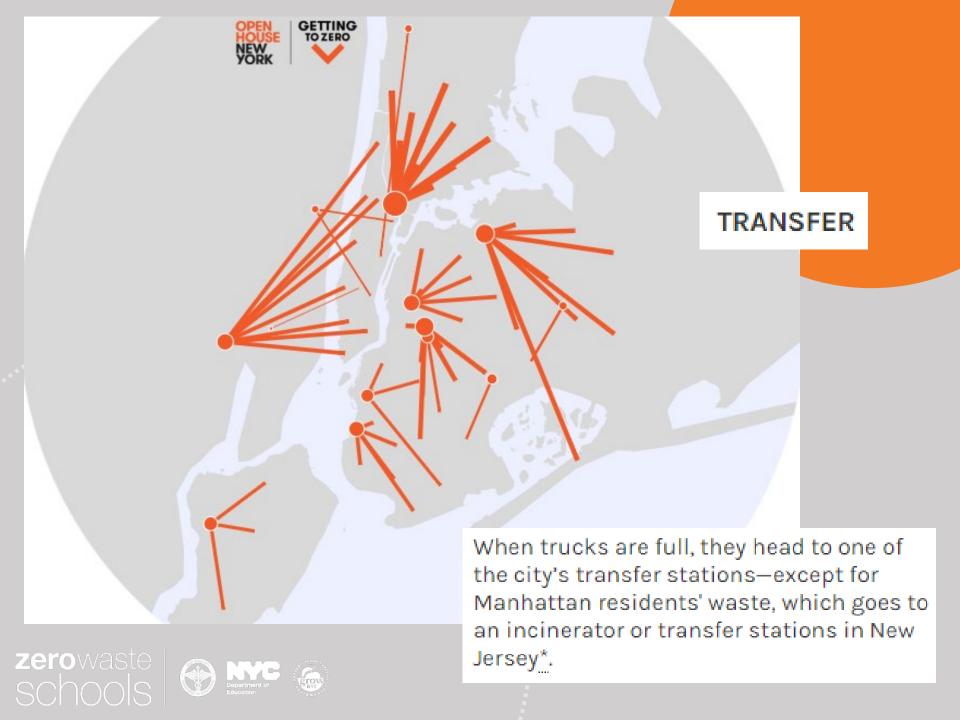












NEW YORK CITY DEPARTMENT OF SANITATION STATEN ISLAND TRANSFER STATION TO STATE OF SANITATION SANITATION STATE OF SANITATION STATE OF SANITATION SANITATION SANITATION SANITATION SANITATI

Arriving at a Transfer Station

Transfer stations are consolidation centers for waste. They combine material from several collection trucks into containers.













Compaction & Containerization

Front loaders are constantly moving waste onto treadmills, which drop it into compactors.

blocks which are loaded into orange containers.



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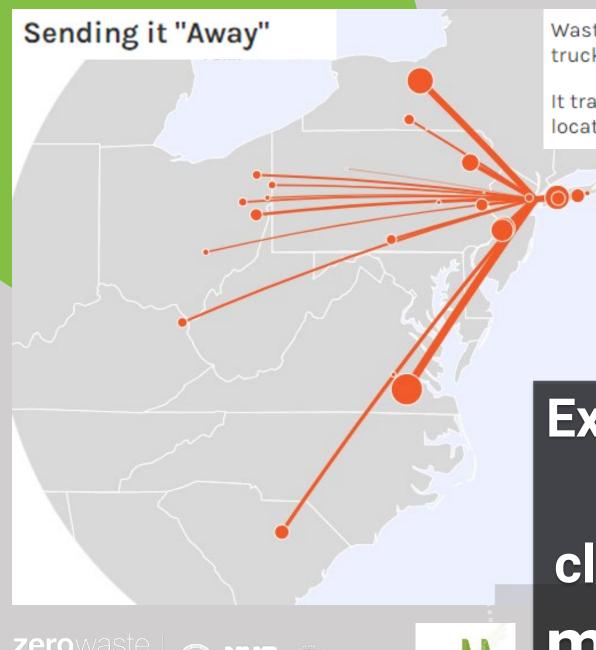
The closure of Fresh Kills

In 1996, the City pleged to close Fresh Kills landfill in five years, due to intense community pressure









Waste is transported on trains or trailer trucks, mostly to landfills.

It travels to other cities and states, located from 70 up to 600 miles away*.





Exporting waste costs NYC close to \$400 million/year























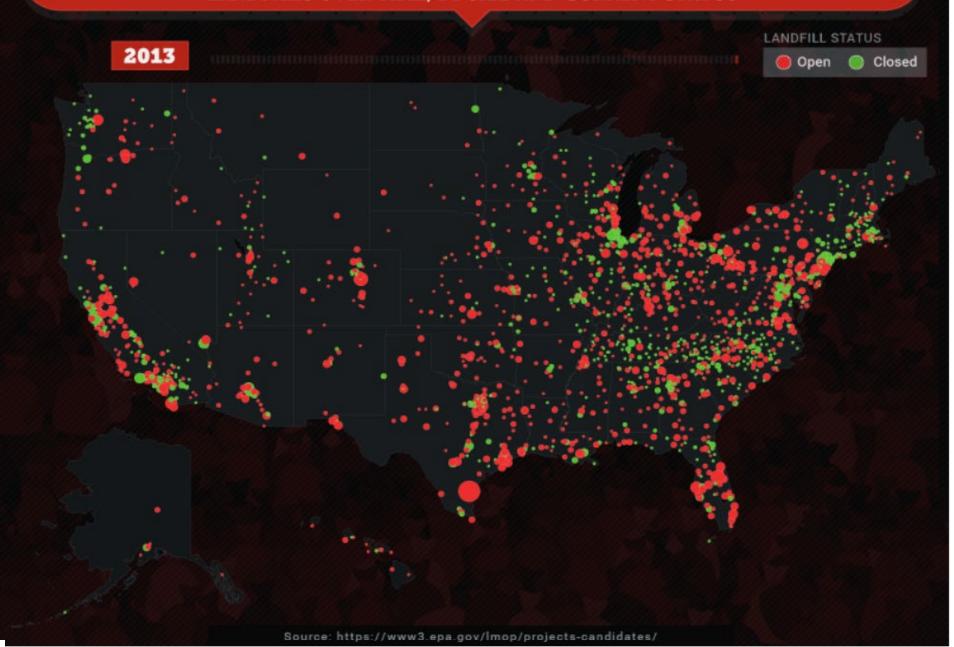






LEACHATE

A CENTURY OF AMERICAN GARBAGE LANDFILLS OVER TIME, BY SIZE AND CURRENT STATUS













A million years??











WASTE TRANSFER STATIONS

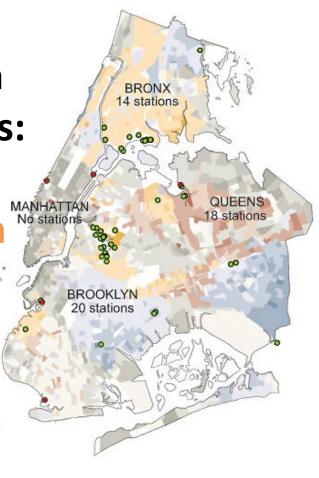
Over 70% of NYC's waste passes through 3 neighborhoods:

South Bronx

North Brooklyn

SE Queens









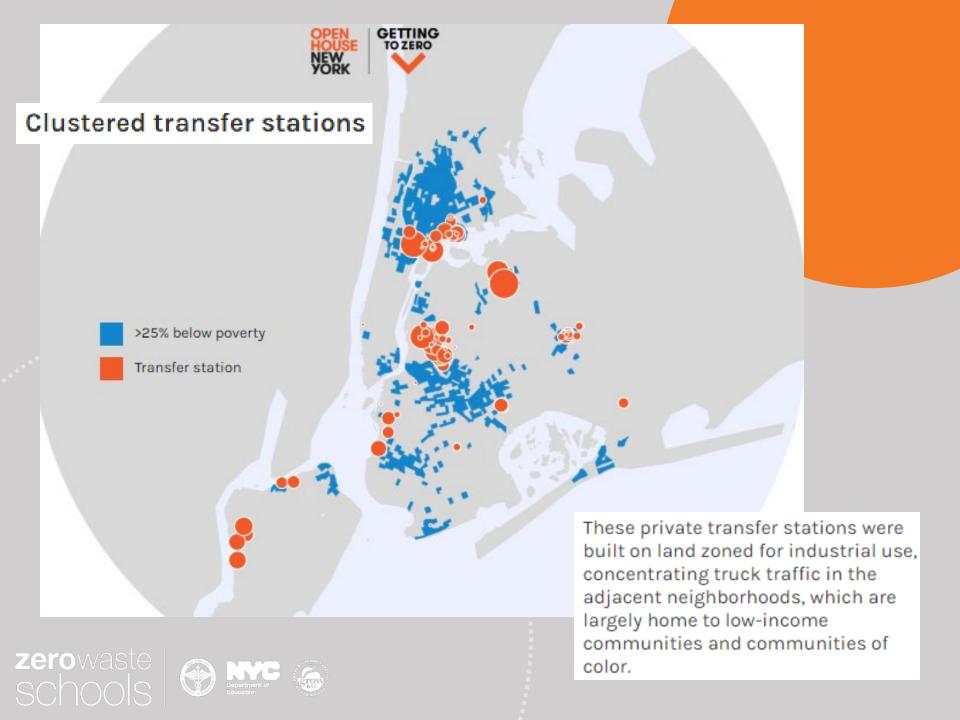












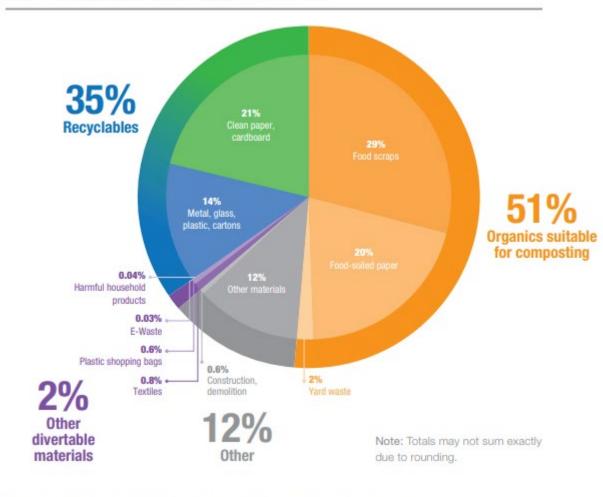






Schools have the potential to divert as much as 86% of their waste for recycling or composting through DSNY curbside collections.

2017 Composition of Schools Aggregate Discards











So...why YOU?

Why schools?

86%

is recyclable or compostable

1,800 NYC schools

1.1 million students

x 800,000 meals daily

= HUGE IMPACT!









Recycling 101







Sort It Out!



Green Bin Don'ts





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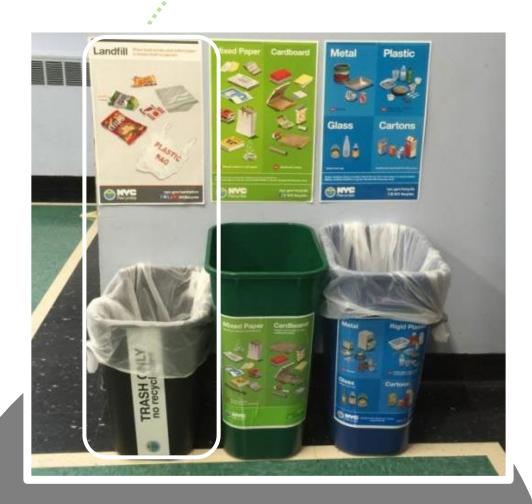


What Goes in My Trash Bin?

Soft Plastics

Chip Bags

Plastic Wrappers













NO RECYCLABLES IN THE TRASH BIN





















Recycling can create up to 7x more jobs than sending waste to landfills.

Benefits: Jobs

















Pratt Industries (S.I.)



























Green Bin Journey







What Goes in My Green Recycling Bin?

Mixed Paper

Cardboard













Recycling (half of the) paper in New York City*

About half of the paper collected by DSNY is recycled in the city, at the Pratt Paper Mill on Staten Island.*

The paper is taken there from Manhattan by barge, or from Staten Island and South Brooklyn by collection trucks.















Corrugation and manufacturing



Processing the paper in Staten Island

The paper is unloaded from barges by a crane and then loaded into the paper mill's production line. Paper arriving on trucks will go through the same process.





Blue Bin Journey

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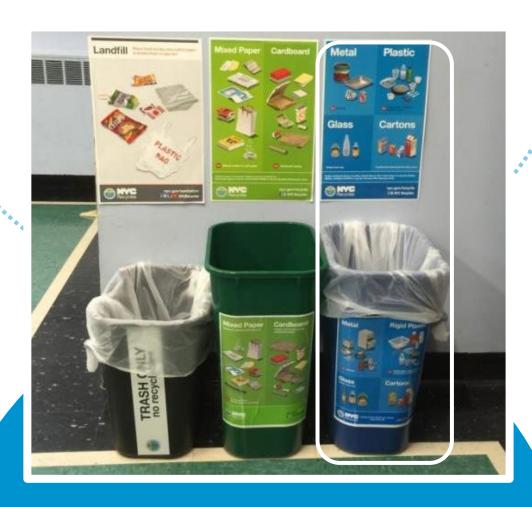
What Goes in My Blue Recycling Bin?

Metal

Rigid Plastics

Glass

Cartons







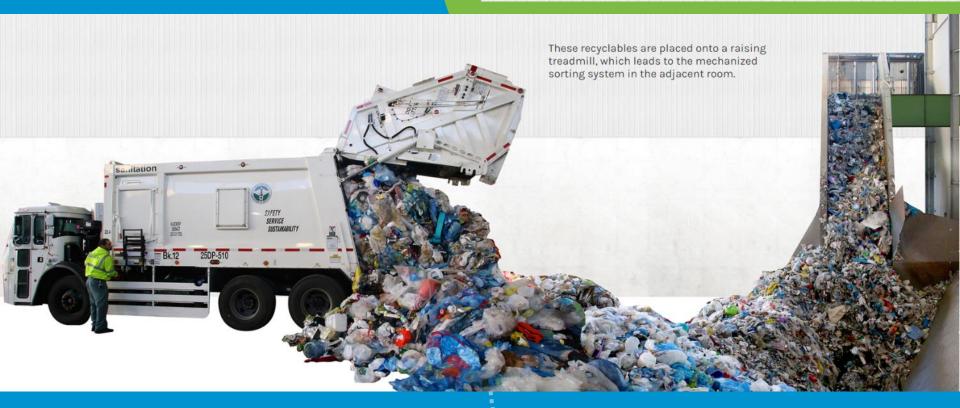






Metal, glass, and plastic

The other part of DSNY's recyclables, composed of mixed metal, glass, and plastic, are tipped on an opposite corner of the facility for further sorting.



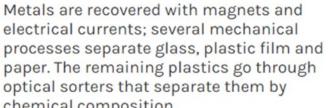








Mechanized sorting















The result: sorted bales

The end product of this sorting system are different bales, each containing a specific type of material.

Here, bales of hard plastics are being transported to storage by a forklift.









Brown Bin Journey

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What Goes in My Brown Organics Bin?

All Food Scraps

Compostable Trays

Napkins

Food-soiled Paper











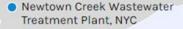


About one third of New York City's residential waste is comprised of organic material.

McEnroe Farm, NY

Alternatives to landfilling

- Composting facility
- Anaerobic digester



 Staten Island Compost Facility, NYC















Arriving at the Staten Island Composting Facility



Composting the organics

After being unloaded from collection trucks, organics are mixed with woodchips and arranged in long rows, called windrows.









Compost made from local organics

The resulting compost is donated by DSNY for local use in gardening, public greening, soil mitigation, and street tree stewardship.

From food scraps to food

The produced compost is often used in local community gardens and farms, helping turn food scraps into food again.











School Recycling Systems

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Bins and Signage















Collection, Storage, Set-out, Trainings

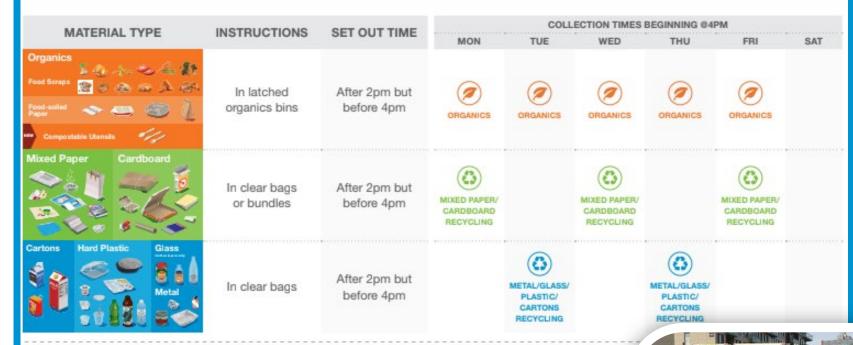








DOE Building Code: M470 Address: 145 W 84 ST, 10024





In clear bags

Between 4pm and 12 Midnight the day before*



*Confirm your school's trash collection schedule at: nyc.gov/dsny.

Enter your building address under "Collection Schedule."

Follow your set out schedule. Report any missed collections to your local DSNY Garage.

Please note: Material set out after your school has been serviced is not a missed collection.

If you have dumpster or compactor service, your schedule may be different.















Research & Data

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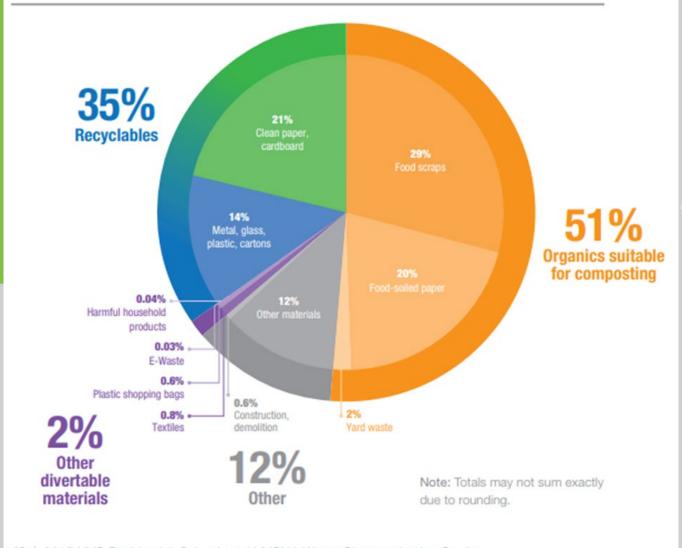








2017 Composition of Schools Aggregate Discards



40 | 2017 NYC Residential, School, and NYCHA Waste Characterization Study









2017 NYC Residential, School, and NYCHA Waste Characterization Study



Recycling Achievement

The charts below show the average recycling achievement of NYC schools in 2017. Some schools capture significantly more recyclables and have lower contamination of unwanted materials in recycling collections than others, but the 2017 Study documented that, on average, there is considerable potential to recycle more from school waste.

School Recycling Collections	Paper Recycling	MGP Recycling
Capture Rate	57.9%	19.4%
Contamination Rate	17.2%	40.6%













Year Three Report

September 2018

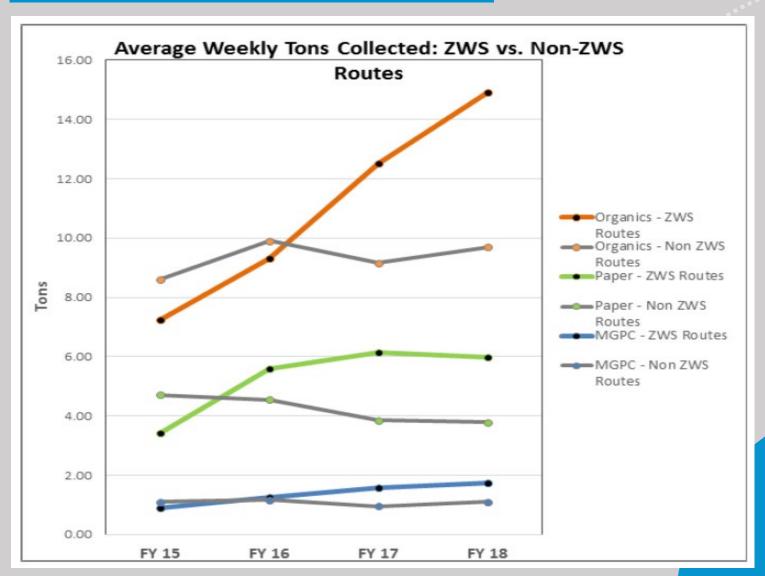








Zero Waste Schools Report: Year 3

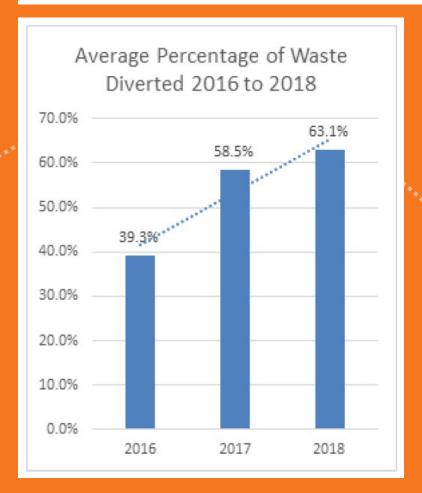






DOE-RCP's Curbside Waste Audit Snapshot

During the spring of each programmatic year, DOE and RCP outreach staff collected weights of all curbside recycling and trash bags for one week to take a snapshot of school waste diversion at ZWS. 15 buildings were chosen as representative sample. The analysis of the data recorded at these 15 buildings shed light on the amount of waste and recycling produced by each school building.

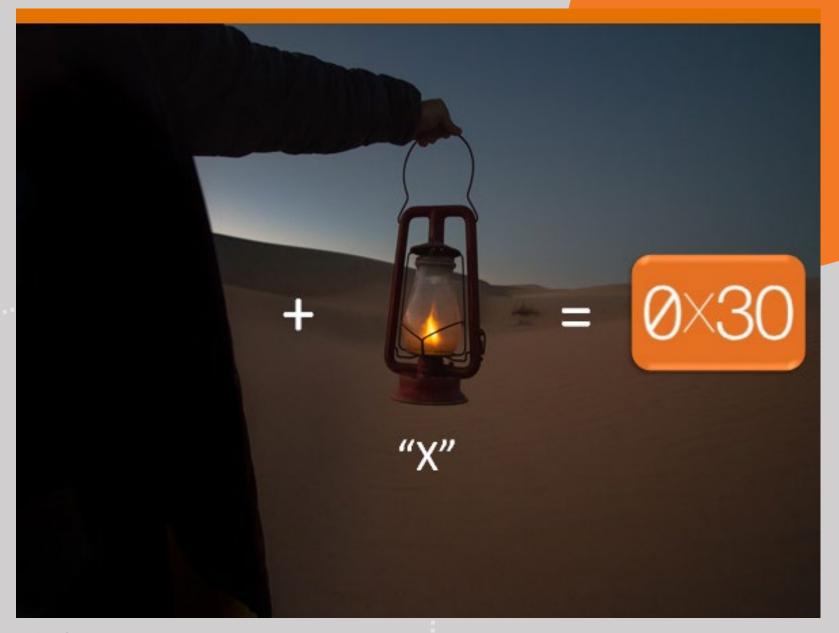


The table and graph shown left depict the average percentage of waste that was diverted away from landfills. There has been a positive trend with time. In 2016, 39.3% of all waste were materials that went to recycling (Paper, MGPC, and Organics) facilities instead of landfills. Comparatively, this increased to 58.5% in spring of 2017 and 63.1% in spring of 2018.









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