



ZB7.9 Attachment 1

2018 Environmental Initiatives Report

2018 Special Highlights



Environmental Management System (EMS) was launched January 2018

The positive feedback gathered from our internal audits of the EMS shows a high level of involvement & incorporation of the EMS within the first year



GETZ (Green Eco-Zoo Team) set an Action Plan, developed a business case, and is now planning to begin a site-wide Energy Retrofit Project. Commencement is planned for 2019.

ENERGY EFFICIENCY IMPROVEMENTS



Long term plan is to reach a target of reducing greenhouse gas emissions by 95%



As of the end of 2018, a total of 22 hot water heaters have been replaced by 20 on-demand hot water heaters



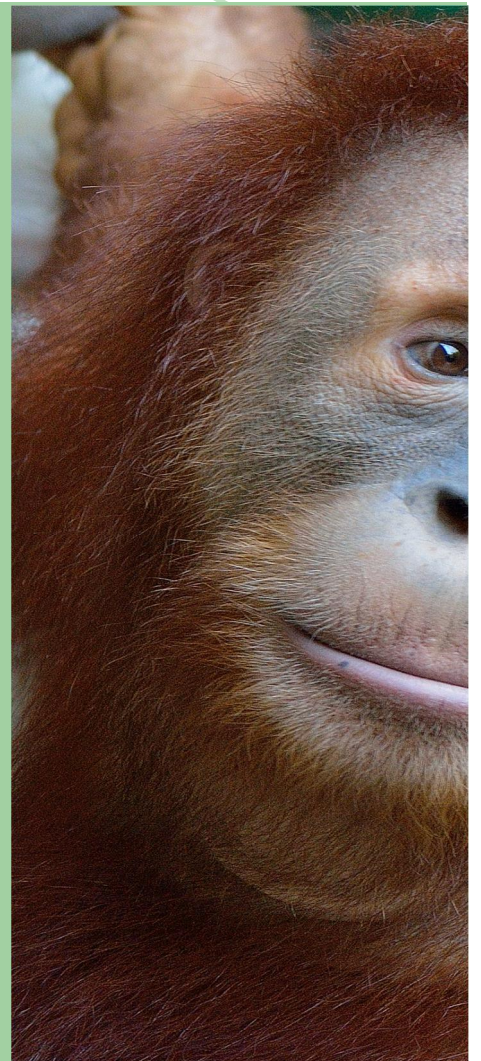
This provides an estimated annual energy savings of \$3,168 which is \$144 per tank



Turned off all non-essential lights from 8:30 to 9:30pm to celebrate Earth Hour on Saturday March 31, 2018 and increased public awareness with 3 spotlights on how climate change is impacting habitats and species through social media and signage throughout the Zoo



LED has replaced approximately 15% of all Zoo lighting.
2018 projects include Parking Lot 1, Staff Parking lot and service areas around the Administrative Support Centre



GREEN TECHNOLOGY & NEW INFRASTRUCTURE



Our 1st water bottle filling station was installed in the Administrative Support Centre



968 plastic water bottles were eliminated by Zoo staff in the first three months



Five additional units were purchased and will be installed in public locations in the spring of 2019.

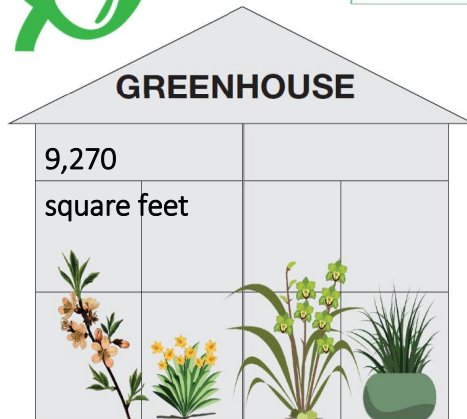


An underground rainwater cistern that pumps filtered rain water into the Zoo's Greenhouse was installed



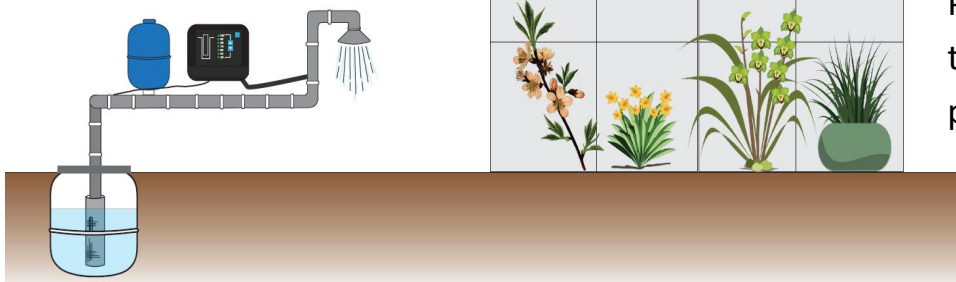
81,000L

of snow melt and rain water anticipated to be reused annually



\$11,000

Won by Zoo staff in the People Power Challenge was put towards the rain water cistern project



ENVIRONMENTAL AWARENESS & PUBLIC OUTREACH



As an Arctic Ambassador Centre, the Toronto Zoo is actively engaged in polar bear conservation efforts and climate change issues.

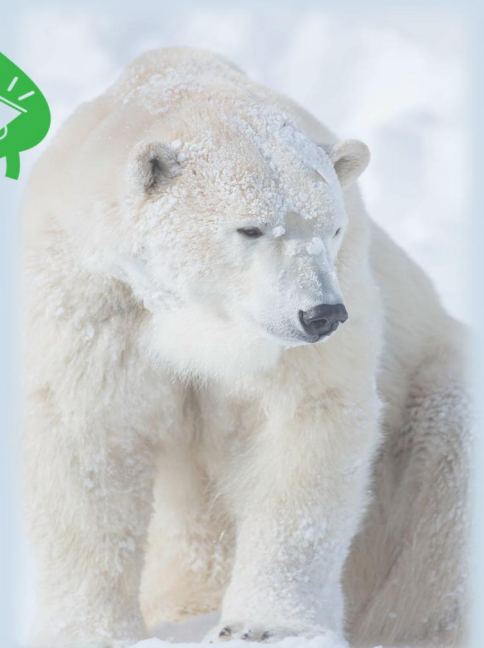
51 children made a polar bear pledge during Polar Bear Fest to save and protect polar bears and fight climate change; our celebration of International Polar Bear Day

Party for the Planet 2018

11,843 guests attended the two day event

4 workshops taught guests easy ways to live sustainably at home

8 environmental organizations provided guests with fun resources to promote green leadership



The Zoo hosted an e-waste collection for Earth Day

2,352 lbs of e-waste was collected.

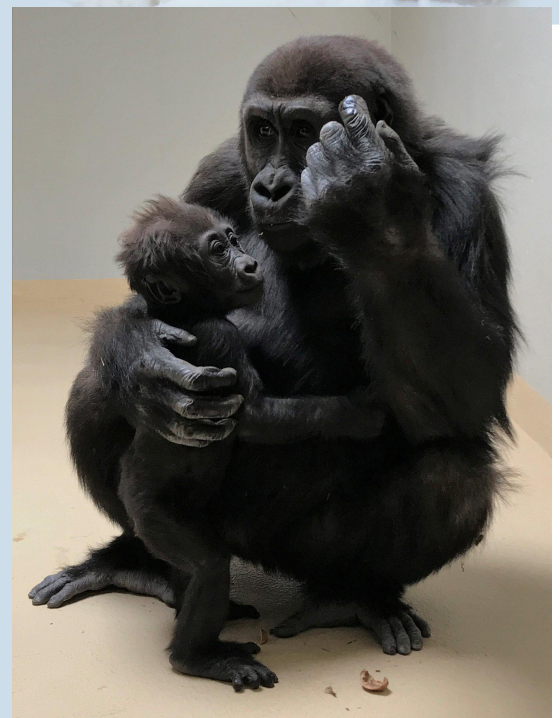
37,000

cellphones have been collected to date

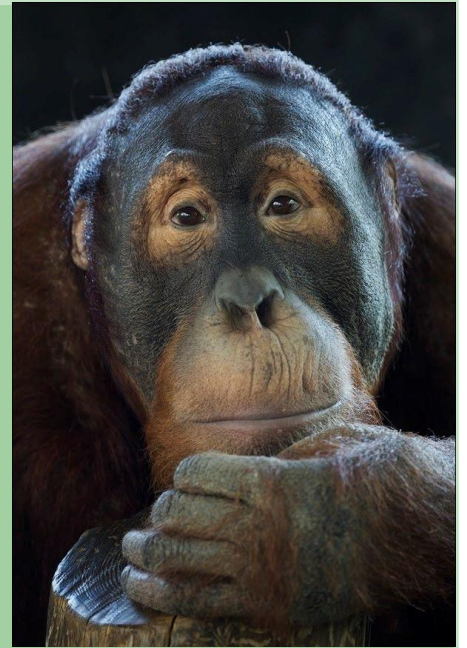
>\$30,000



has been donated to Great Ape conservation efforts in Africa



RENATURALIZATION & BIODIVERSITY IMPROVEMENT PROJECTS



160 volunteers from Symcor Inc. planted 100 trees and 350 meadow plants with the Zoo.



100 volunteers from PricewaterhouseCoopers participated in two browse collection events



Toronto Zoo staff hosted two Great Canadian Shoreline Clean-ups at Rouge beaches

1,557 pieces of garbage **14** bags of recyclables



In 2018 we blitzed Durham Region with 2 flagship bio-blitzes and 5 smaller 4-6 hour taxonomic events

1,516 unique species identified in Durham to date

EMPLOYEE ENGAGEMENT



A random 24 hour waste audit was completed

Plastic Free July
2018



Placed 8th out of the 78 North American zoos and aquariums participating

1,785 pieces of plastic cutlery, 1,029 plastic bottles, 1,138 plastic straws were eliminated

1,256 pieces of litter were picked up

71 petitions were signed to reduce plastic waste

Waste Audit
August 2018



2019 action plan includes new waste graphics, a zero-waste employee culture, staff sorting centres, increasing access to compost bins for the public, and new waste receptacles

Waste Diversion



Waste diversion rate of 70% achieved in 2018



Overall target is to meet TransformTO Report's objective and moving towards a zero-waste facility by 2027

Waste Reduction
Week



Celebrated Waste Reduction Week by having a No-Print day on October 17th

TerraCycle

x2

The Zoo doubled the number of TerraCycle recycling programs from 4 to 8 in 2018.



8,500 kg of waste diverted from landfill through TerraCycle

Programs include: Air freshener packaging, inkjet cartridges, Brita water filters, cereal plastic packages, latex/nitrile gloves, personal safety equipment, coffee pods and filter cartridges

Textile
Recycling

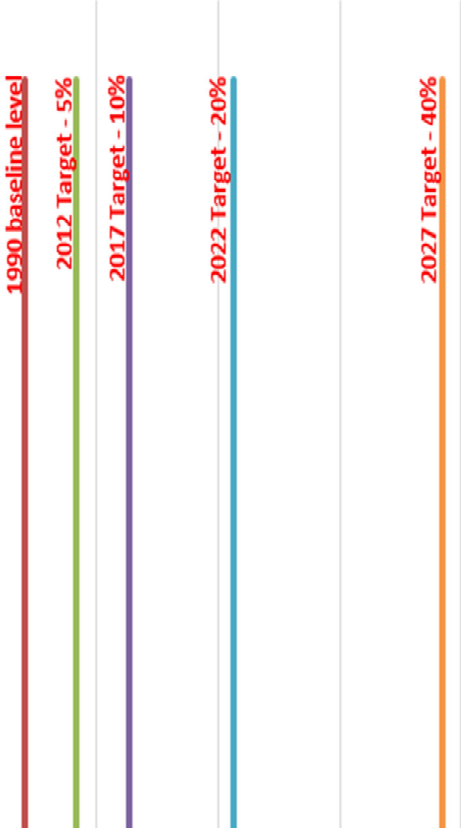


A total of 2,854 lbs of textiles were collected and donated to Diabetes Canada as part of our activities during Party for the Planet

**DIABETES
CANADA**

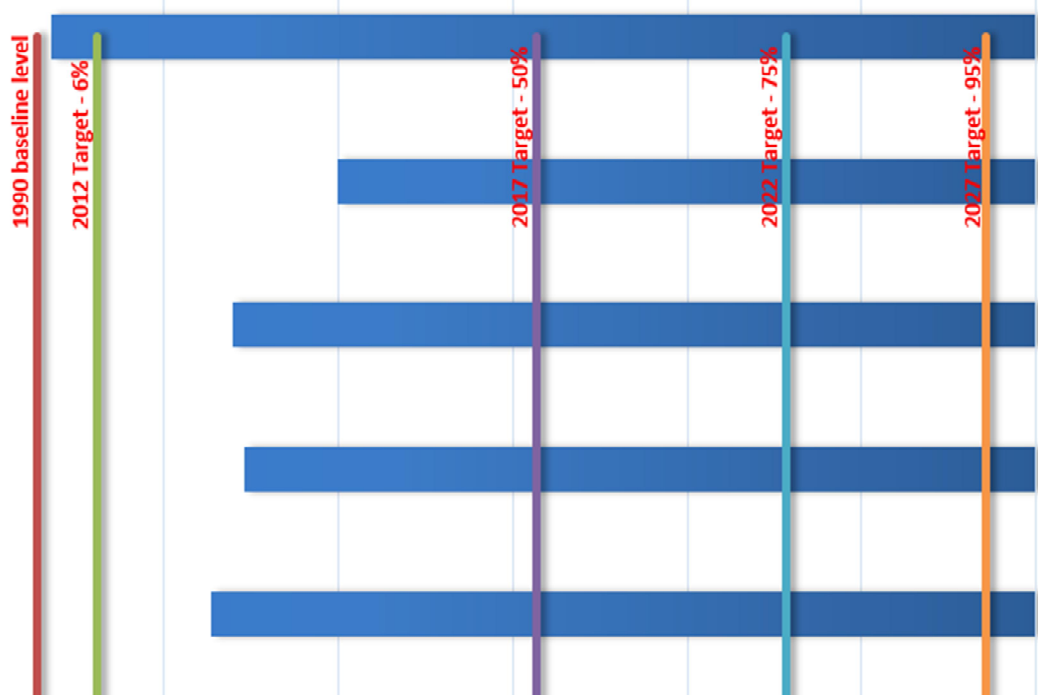
A slight increase of 4% in water consumption was noted in 2018. The Toronto Zoo remains below the 2027 40% target at 56.6% below 1990 levels.

Potable Water Consumption



In 2018 there was a significant increase in greenhouse gas emissions due to infrastructure retrofits converting electrical services to natural gas.

CO₂ Emissions



The Toronto Zoo has successfully met its target of 70% waste diversion through an intensive recycling and composting program for the Zoo, as well as increasing public and employee awareness.

Waste Management

