

TARONGA 
CONSERVATION SOCIETY AUSTRALIA®

For the Wild

Agenda

1. Taronga – Overview & Vision
2. Environmental Sustainability
3. Waste Management Challenges
4. Waste Management in Switzerland
5. Waste Management at Taronga
6. Key Partners & Suppliers
8. Mitigate Plastic Pollution
9. QAs

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Who we are

We are a centre of conservation excellence and a unique place where people and wildlife come together. Our driving passion is not just to help wildlife to survive, but to ensure it thrives.

Our Vision

To secure a shared future for wildlife and people.

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Environmental Sustainability



Strategic Focus

Species Conservation

– animal and habitat conservation projects, projects, including the breeding and release programs

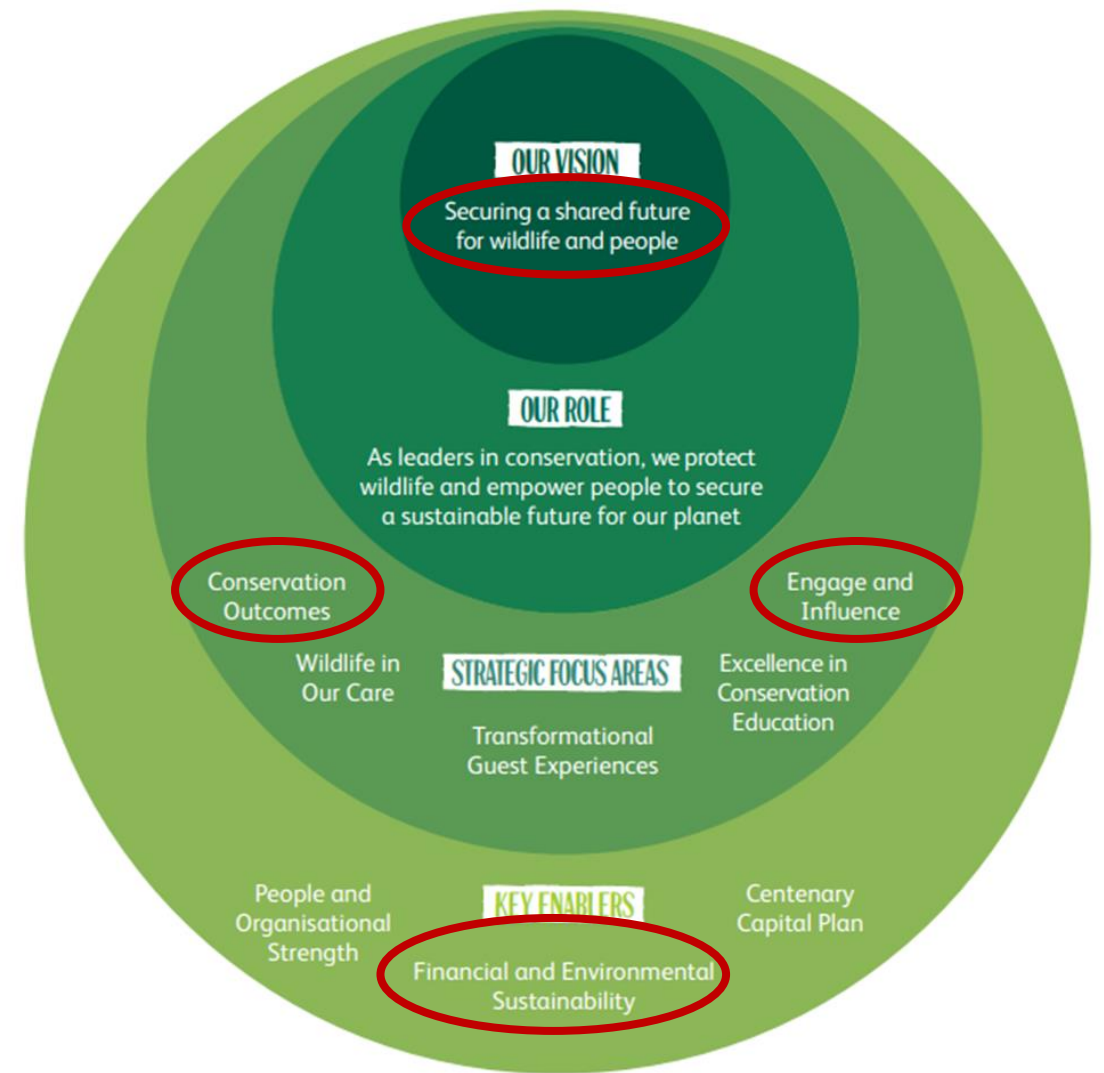
Community Conservation

– engaging the community to take action on action on key campaigns linked to key biodiversity/wildlife threats

Environmental Sustainability

– ensure both zoos operate in a manner to to reduce its own environmental impact and and leads by example

The three programs work together to create powerful sustainability initiatives initiatives and community campaigns with with an authentic message to ensure the the long-term protection and survival of



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TARONGA SUSTAINABILITY TARGET 2020

DRIVING EFFICIENCY



10% ↓
IN CARBON
FOOTPRINT *



20% ↓
IN CONSUMPTION



90%
DIVERSION
FROM LANDFILL



10% ↓
IN CONSUMPTION



5%
RENEWABLE ENERGY
GENERATION



ZERO TRAVEL[†]
FOOTPRINT

 Waste management related targets

***Correction:**

10% in Carbon reduction by 2020 has been surpassed.

Taronga is now targeting

**Certified Carbon
Neutrality by 2019**

INTEGRATION



50% ↓
IN OFFICE
PAPER USE



PRINT JOBS
100% FSC** & MIN
60% RECYCLED
CONTENT



100%
SUPPLY CHAIN
REVIEWED



100%
ENGAGEMENT IN
SUSTAINABLE WORK
PRACTICES

ENGAGEMENT



100%
PARTNERS REVIEWED
AGAINST CORPORATE
SCORECARD FRAMEWORK



100%
COMPLIANCE
ZERO POLLUTION
INCIDENTS



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GREEN

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Some Waste Related Challenges

- ❖ Carbon Neutrality by ~~2025~~ 2019
- ❖ High diversion target
- ❖ Space restriction for waste containment & onsite processing
- ❖ Complex site - significant onsite activity (incl. 4000 animals, keeper talks, retail, overnight stays, major events, functions, education courses)
- ❖ Maintaining high animal welfare standards
- ❖ Over a 1,500,000+ visitors/annum
- ❖ Large quantities of food & beverages consumed
- ❖ Major centenary capital works program
- ❖ Range of demographics, cultural background & languages
- ❖ Leading by example & influencing community behaviour on conservation/sustainability issues

...while working to minimize waste generation & increasing diversion



Did you know...

Taronga's waste management is a 7 day a week, 365 day operation (incl. public holidays)

Waste Management in: **Switzerland**



Switzerland's Waste Management ABC

1. Polluter pays principle
2. Segregate at source
3. Efficiency through communal bins & collections
4. Public place recycling
5. Innovative use of technology
6. Landfill ban
7. EfW for all non-recyclable materials
8. Strong environmental legislation
9. Strong cultural norm driving environmental initiatives
10. Influencing suppliers BAU model







Waste Management at: **Taronga Zoo**



TARONGA ZOO'S RECYCLING GUIDE

WHERE DOES ALL OUR WASTE GO?

Item	Collection Area	Collection Info	Comments
 Animal waste	Exhibits-to be collected	Place in brown waste bins	No plastics, large branches etc. to be included.
 Batteries - all sealed (except for car batteries)	Purchasing & Stores Department	Place in allocated bucket in purchasing, under conveyor belt	Contact: Joe Soden, Ext. 787 When full contact SUEZ, Scott.scott.bayliss@suez.com
 Branches	Exhibits-place in dedicated pile	Contact PIO. Tamara 681	
 Cardboard boxes (large)	Outside Purchasing & Stores Department	place in wire basket	Please flatten first
 Cardboard boxes (small)	Staff room in each department	Crush and place in blue paper recycling bin	
 Cartridges & Toners (Printer)	Purchasing & Stores Department	Place in allocated box in your office area or place in box in purchasing	Once allocated box is full contact: Tel 787 Joe Soden Goes to Planet Ark
 Electronic Waste	Arrange either pick-up or drop off	For collection contact PIO: Tamara Ext. 681. For drop off bring to IT office e-waste bin, for more info, contact: Tris Gillies on 580.	
 Feed bags (empty)	Food Preparation Area	Combine all soft plastics (if possible) and place in any yellow recycling bin	Soft plastics will be pulled out at the processing plant and tuned into PEF, a fuel source
 Fluorescent Tubes	Purchasing & Stores Department	place in allocated long box in purchasing, under conveyor belt	Contact: Joe Soden, Ext. 787 When full contact SUEZ, Scott.scott.bayliss@suez.com
 Food waste	Staff room in each department	General waste	Alternatively can be placed in animal waste bin.
 General Waste	Zoo Grounds	Place in general green waste bins	Waste is manually separated to recover any recyclables (at cost).
 Light Bulbs	Purchasing & Stores Department	Place in allocated box in purchasing, under conveyor belt	Contact: Joe Soden, Ext. 787 When full contact SUEZ, Scott.scott.bayliss@suez.com
 Metal recycling signs/labels	Metal Recycling bin sticks yard	Contact PIO: Anne Ext. 551	
 Mobile Phones	Switch Information Desk Human Resources	Place in box recycling box or through internal post to Belinda Fairbrother Ext. 733	Income goes Jane Goodall Foundation
 Paper, Magazines, Newspaper	Staff room in each department	Place in blue recycling bin	
 Plastic drums (empty)	Staff room in each department	Place in yellow recycle bin	Must be rinsed out.
 Plastic, Aluminium, Steel, and Glass Bottles and Container	Staff room in each department	Place in yellow recycling bin	
 Rubber Bands	Staff room in each department	Reuse if possible or contact PIO: Anne Ext. 551	
 Shredded Paper	Arrange pick up	Contact PIO: Tamara Ext. 681	Used for animal bedding, staples must be removed
 Soft Plastic	Backyard to Bush BOH blue bin Or dispose in general waste to be turned into fuel substitute	Contact Farley MacDonald for RedGroup collection or dispose in yellow recycling stream to be turned into fuel substitute.	
 Steel	Arrange pick up	Contact PIO: Tamara Ext. 681	Metal recycling
 Waxed boxes	Staff room in each department/Food Prep	Flatten, place in general waste	Food prep return to supplier if not torn Unable to recycle due to plastic coating
 White goods (fridges, washing machines, dishwasher etc.)	Arrange pick-up	Contact PIO: Tamara Ext. 681	

For general waste management and resource recovery contact
Anne Kehlhofer Manager, Environmental Sustainability Ext. 551 | Email: akehlhofer@zoo.nsw.gov.au

Taronga's Waste Management ABC

1. Waste Minimization
2. Diversion at Source
3. Simplicity
4. Training & education
5. Innovation & technology
6. Partners & suppliers
7. Environmental compliance
8. Continuous improvement
9. Common sense

Did you know...

Taronga Zoo has a 86% diversion rate

Waste Stream	Recycled	Composted	Landfilled	Other facility	Implemented	Yet to be implemented	Comment
Animal waste		✓			✓		
Green waste		✓			✓		
Paper/Cardboard	✓				✓		
Mixed Container Recycling waste stream	✓					✓	
Mixed Containers 'Return & Earn'				✓	✓		RVM machines in grounds & main entrance
Compostable packaging stream		✓				✓	To be processed with animal waste
Food scraps				✓	✓		Goes to Earth Power
Soft plastic	✓			✓	✓		Turned into PEF
Electronic Waste	✓				✓		
Batteries	✓				✓		
Lightbulb & tubes	✓				✓		
Cartridges	✓				✓		
Mobile Phones 'They are Calling on You'	✓				✓		Zoo campaign to recycle mobile phones
Scrap Metals	✓				✓		
Liquid Waste				✓	✓		Goes to Camellia
Grease Trap				✓	✓		Goes to Earth Power
Bulk general waste			✓		✓		
General Waste			✓	✓	✓		Goes to AWT for sorting, part is landfilled

Waste Contact

Focus – Cradle-to-Cradle thinking

Vision - 90% Diversion: Innovative solutions to divert materials at source

Example of recent initiatives:

- Implementing a ‘compostable packaging stream’ to be composted with animal waste waste
- Implemented food waste stream to go to EarthPower
- Implementing a dedicated deposit containers containers stream
- Implemented Return & Earn Community Kiosk & Donation Machines throughout Site
- Mobile Phone Recycling Campaign
- Evaluating onsite EfW facility



Procurement & Supply Chain

Focus – Responsible Procurement

Vision - Integrate sustainability in all key contracts

Examples of contracts with waste management management scope:

Catering Contact – EPICURE

- Dedicated sustainability fund
- Minimizing packaging, increase use of dine-in crockery, crockery, reusable baskets for hot food, only use compostable compostable packaging
- Implementation of milk jugger system to reduce milk bottle milk bottle consumption
- Implementation of organics stream in all kitchens

Coffee Contract - Genovese

- 100% compostable coffee cups

Cold Beverage Contract – Tender in Progress

- Undertook a detailed third party LCA on most sustainable sustainable forms of packaging
- Strong focus on sustainable packaging & avoidance



Litter Mitigation & Prevention

Focus - Single Use Plastics

Vision - Making Taronga a Single-Use Plastic Site

Some key steps:

- Animal hospital treating injured wildlife
- Banning balloons, plastic bags & plastic straws from site in 2014
- Compostable packaging (incl. coffee cups) in 2017
- Removing single sauce sachets in 2017
- Compostable disposable cutlery in 2017
- Container reverse vending machines in 2017
- Weekly local beach & bush clean-up (ongoing)
- Partner with councils & organisation for a common cause cause (ongoing)
- Taronga Green Grants – ‘Marine Pollution’ 2017
- Community conservation campaign 2018

‘Litter Free Oceans Toolkit’ –A community conservation campaign to activate behavioural change and change and assist businesses/schools to move away from away from single-use packaging





Thank you for
listening!

Do you have any
questions?



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