Sustainable Material Management Plastic Bags Reduction in Taipei City

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1. Introduction of Taipei City

2. Purpose of Plastic Bags Reduction

3. Strategies

4. Timeline & Future Visions

5. Conclusion



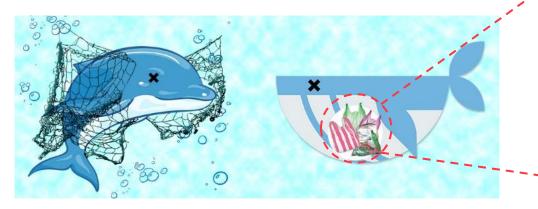
Maokong

Taipei 101

Introduction of	Purpose of Plastic	Strategies	Timeline & Future	Conclusion
Taipei City	Bags Reduction	Strategies	Visions	Conclusion

Marine animals are suffering from starving to death

by accidentally swallowing plastic bags....





Source: Marine Biology & Cetacean Research Center, National Cheng-Kung University

Oct. 2016

A 23-ton weight giant sperm whale found dead outside Tainan.

Its stomach was found filled with plastic bags and fishing nets.

Mar. 2018

Whales were found dead in Kaohsiung Harbor.

The smallest one of those was found 18 plastic bags with 2-meter length bags in its stomach.

2017 Statistics on top 5 amount marine waste in Taiwan by International Coastal Cleanup(ICC)





Source Reduction

- ✓ Strengthen regulations and quidelines
- ✓ Reinforce EPR
- ✓ Enhance education

Prevention and Removal

- ✓ Remove hotspot wastes
- ✓ Prevent leakage into the ocean

Research and Investigation

 ✓ Monitor and investigate coastal and marine pollution

Collaboration and Partnership

- ✓ Expand and strengthen multiparty cooperation
- ✓ Engage public participation

" *Prevention is better than Cure*

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Respond to Worldwide Campaigns

World Oceans Day



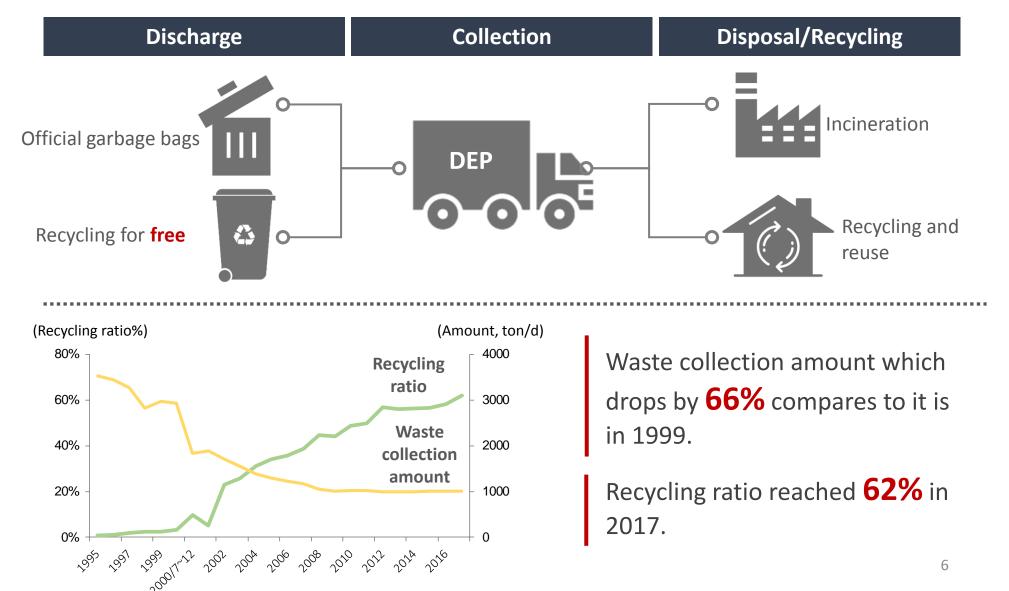
"Make Oceans Plastic-Free"

2017 World Oceans Day

"Our Oceans, Our Future"

Introduction of	Purpose of Plastic	Strategies &	Timeline & Future	Conclusion
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Pay By The Bag Trash Collection System since 2000



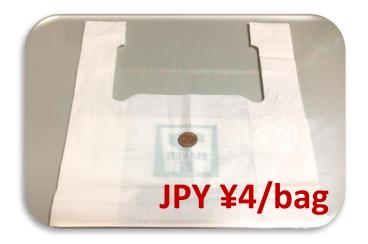
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History of Plastic Reduction Policies



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Problems we face...



Problem The price is too low (JPY ¥4/bag) to control the amount



Problem

Unnecessary bags are found in official garbage bags

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Strategy A Expand the list of business - restricted to provide free plastic bag

Increased by 7 categories (From $7 \rightarrow 14$)

In 2002

- 1. Public sector
- 2. Private school
- 3. Department store
- 4. Wholesale store
- 5. Supermarket
- 6. Convenience store
- 7. Fast food restaurant

More categories in 2018

- 8. Pharmacy
- 9. Medical equipment store
- 10. Electronics retail store
- 11. Book store
- 12. Laundry
- 13. Beverage shop
- 14. Bakery



	Introduction of Taipei City	Purpose of Plastic Bags Reduction	Strategies	Timeline & Future Visions	Conclusion
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Strategy B Bring Your Own Shopping Bags

Bring Your Own Shopping Bags

Educate people to bring their own shopping bags when shopping.

Rental Deposit Shopping Bags

Customers can use the rental bags by putting a deposit of JPY ¥180.







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Strategy C Dual-use Shopping Bags

convenience stores, supermarkets, and wholesale markets In 2018, can only sell "dual-use shopping bag" instead of "plastic shopping bags".





Either ways can be adopted:

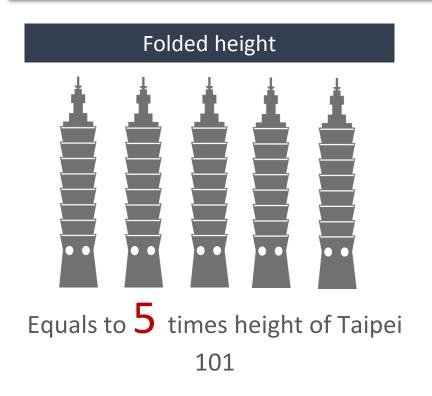
- Commissioned to sell dual-use shopping bag made by DEP
- ✓ Produce and sell its own dual-use shopping bag with authorization charge by DEP



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Expected Benefit...

Reducing plastic bag by **20 million** per year



Carbon reduction



Equals to amount of carbon absorption by 17 million trees

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Taiwan EPA Ban on Disposable Plastic Items

	2020	2025	2030
Plastic Shopping Bags	Expand coverage of stores under regulation		
Disposable Tableware	Prohibit dine-in use	Implement comprehensive restriction by	Fully prohibit
Plastic Straws	Prohibit dine-in use	strengthening pricing mechanism	provision by stores
Single-use Takeaway beverage Cups	Enhance preferential measures of using own cups		



THANK YOU FOR YOUR ATTENTION