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Impact of China's New Regulation on Recyclable Wastes on the Trend of TBM and Recycling Business in Asia

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Chinese Import Regulation on Recyclable waste

 China try to control import of recyclable waste by enforcing various regulation

3 Catalogues on Waste
"Catalogue of Banned Importation of
Solid Waste"
"Catalogue of Restricted Importation of
Solid Waste Used as Raw Material"
"Catalogue of Unrestricted Importation
of Solid Waste Use as Raw Material"
Environmental Protection and Standard
for Imported Solid Wastes as Raw
Materials.

Preshipment
Inspection

Inspection by
customs officer

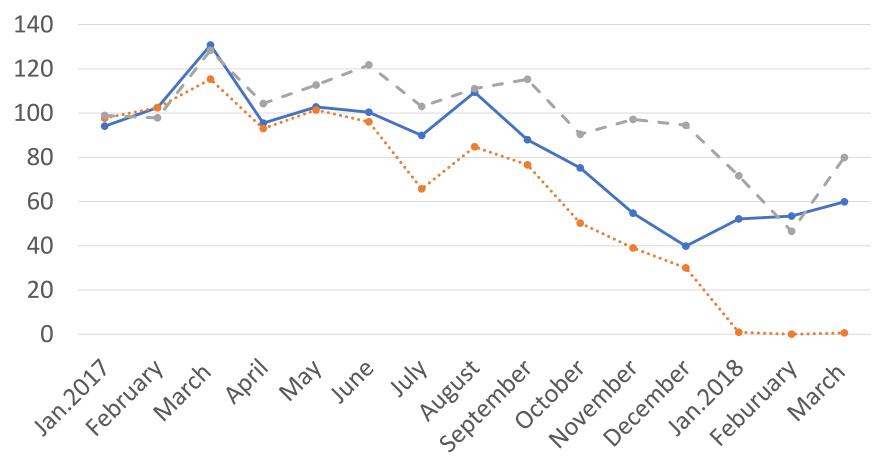
Formulating
Recycling
Industrial Park
(Reduce
monitoring cost
on pollution.)

Regulation on Pollution Control: Regulation on wastewater treatment, emission control and hazardous waste management. Inspection to recycling factories, on emission control, waste management and others.

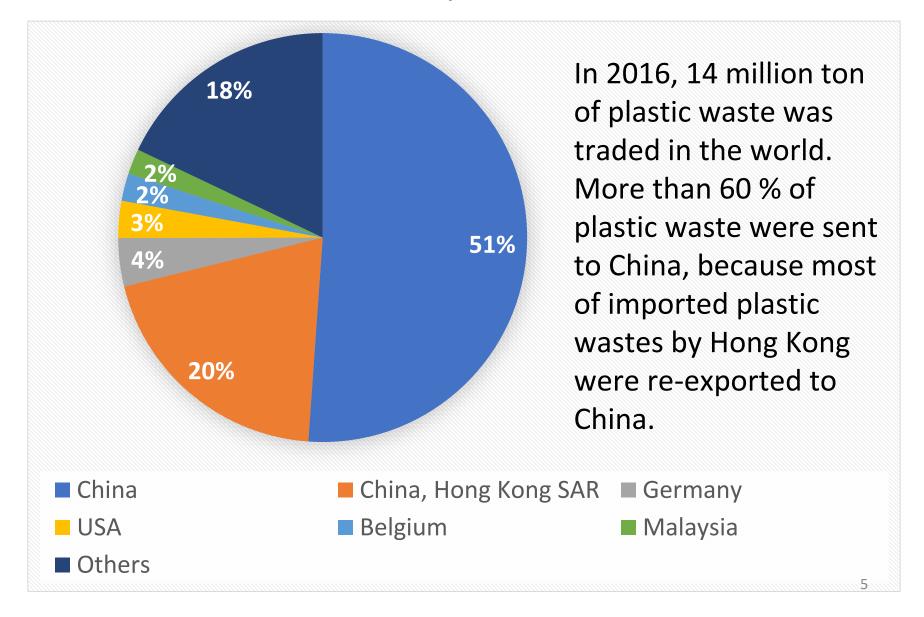
Concerns in Asian countries

- China revised non tariff measures on some types of recyclable waste such as plastic waste (excluding plastic waste generated in production process) and unsorted waste paper in 2017.
- Some countries such as Japan and South Korea which has exported recyclable waste to China, facing difficulty to find the destination of recyclable waste.
- On the other hand, some developing countries such as India, Indonesia, Malaysia, Thailand and Vietnam increase the import of recyclable wastes. Chinese restriction of importing recyclable waste stimulates the investment in recycling in other Asian countries.
- Government officers in charge of transboundary movement of hazardous waste in countries waste concern the possibility that their countries would become dumping ground or pollution from recycling industry would increase.

Import of Waste Plastics, Waste Paper and Copper Scrap by China (Monthly Average in 2016 – 100)



Plastic Waste Import 2016



Europe

Compressed and baled

Prior Notice and Consent



Philippines

Shredded and washed to flake



PET Bottle

It twists
and unite
to make
thick
thread, or
makes
substitute
to cotton.





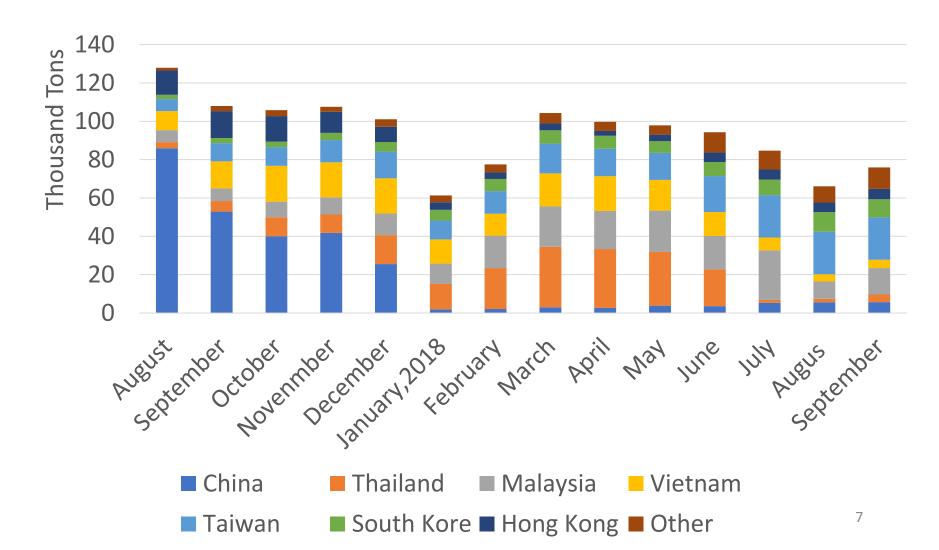
↑ Washed flake of PET.



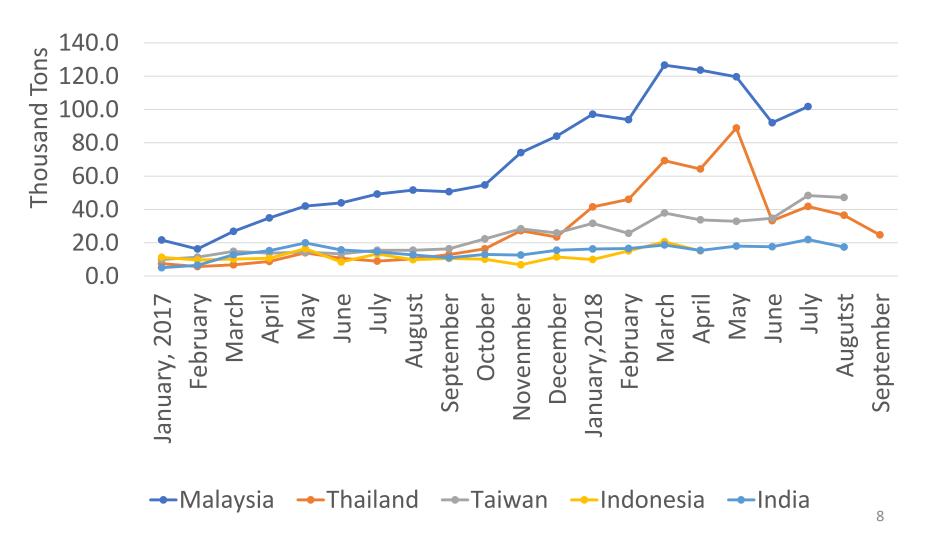
Thread is spun with heat.←

6

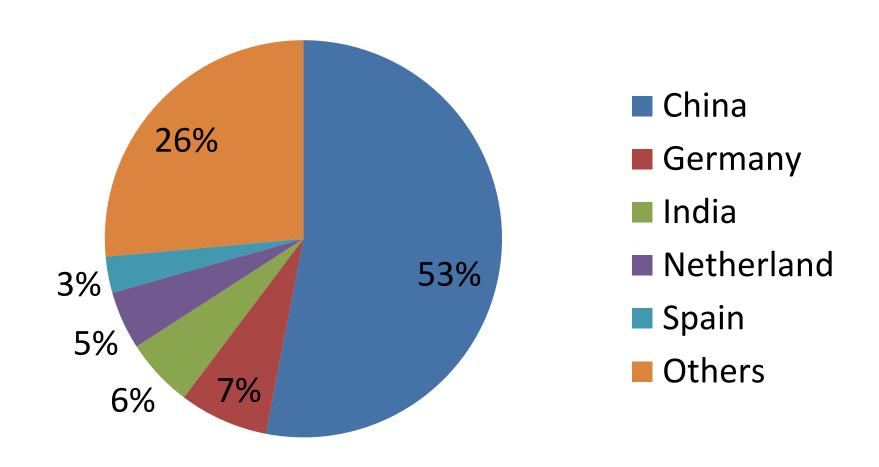
Destination of Plastic Waste from Japan



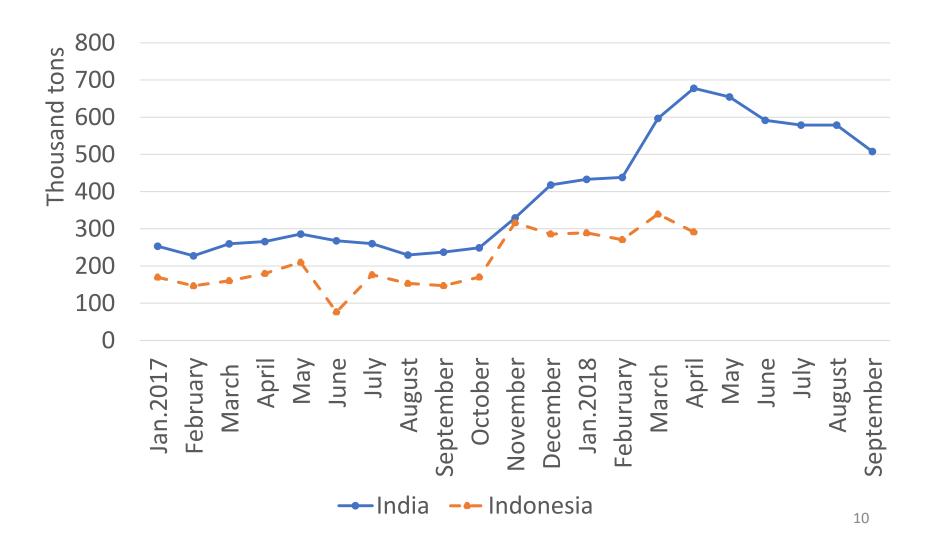
Import of Plastic Waste



Waste Paper Import in 2015



Import of Waste Paper by India and Indonesia





Plastics and others

Mixed paper with plastics, imported to Shezhen, China from US. December 2011.





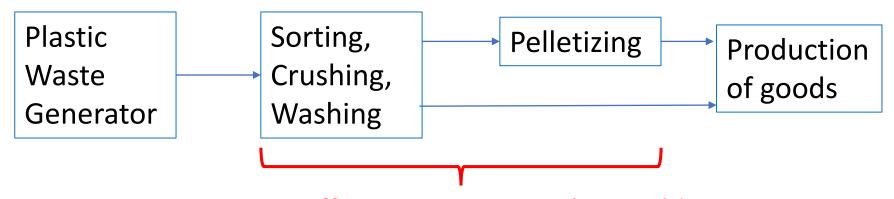




Trade Regulation and Types of Plastic Waste

Trade Restriction	Justification	China	Philippines	
No control, Import freely	Pollution control is strictly enforced.			
Import License Required	Recycler with and without pollution control exists. Only good recyclers can import.			
Prior Notice And Consent				
Prohibit Import	No facility to treat properly or not enough facility to clean up imported one			

Challenges for plastic recycling



Insufficient capacity in the world

- Recycler may not want to invest in soring, crushing and washing facility, because
 - China may allow import some types of plastic waste in the near future.
 - Country where they will invest in the facility may prohibit the import in the future.
- Some recyclers try to get short-term profit, because unsorted plastic waste is cheap and because strong demand of re-pellet is still existing in China.

What is appropriate target?

- When I made interview with the recycler who is importing waste PET bottle and make PET flakes, he said he opened recycling facility for recycling of waste PET generated in the Philippines. But they can not collect waste PET bottles, because informal recyclers without pollution control collect PET bottles in higher price.
- The key policies to facilitate the investment in proper recycling process are
 - to enforce pollution control regulation
 - to ensure enough volume of recyclables for good recyclers, because there is scale economy in recycling process and pollution control.

China announced the revision of list of recyclable waste which cannot be imported from end of 2018 and 2019

- In April 2018, China announced that revision of list of waste which can or cannot be imported.
- Prohibit importing in the end of 2018.
 - Plastic waste generated from production process.
 - Pressed End of Live Vehicles
 - Waste Electronic and Electrical Equipment for recovering steel.
 - Waste coated cables and Waste Electronic and Electrical Equipment for recovering copper
 - Waste Electronic and Electrical Equipment for recovering Aluminum
 - Waste Ship, and others
- Prohibit importing in the end of 2019
 - Scrap Stainless Steel, and others.