

PENANG

Circular Cities: International
Urban Cooperation –
Sustainable and Innovative
Cities and Regions

by

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top 5 challenges

Addressing the diverse challenges Penang state is facing right now



Single-Use Plastics

to
FOCUS

- Illegal imported plastic waste issue
- High demand for plastic in PPE (personal protective equipment) after post pandemic



Food Waste and Food Security

An estimated **44.5%** of waste is made up of food waste



Water Security

- Heavily dependent on cross-border water supply
- The highest water consumption in Malaysia



Construction and Demolition Wastes

- Landfill reaching full capacity.
- Construction sector to grow by 3.7% year-on-year

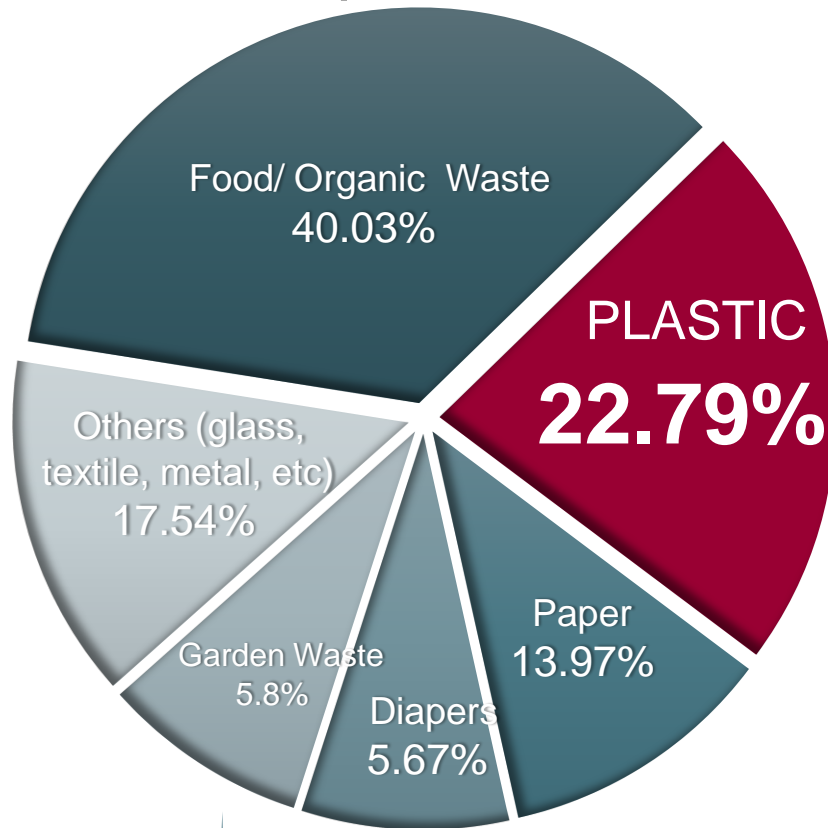


E-Wastes & Hazardous Wastes

- No law for household e-waste/ hazardous waste
- No proper data collection

Penang Island City Council (MBPP)

Municipal Solid Waste
Composition 2019



Critical Success Factors

Technology



Fund



Commitment



Knowledge



01

22.35% of the collected waste consists of **recyclables**.

02

a spring cleaning in 2019 revealed that more than **70%** of the waste collected were comprised of **single-use plastics**

the local council has developed a **roadmap to reduce the single-use plastics**.

03

Seberang Perai City Council (MBSP)

New Norms x Sustainability & Technologies





Our Needs

One of the poll questions was asked in the 1st stakeholder consultation to the participants: “Which of the following does Penang need the most from EU city collaboration to ensure that the pilot projects will be successful?”

“

*The invention of
PLASTIC is good
but how we can
live **sustainably**
with it need WISE*

Josephine Tan

