



PENANG
2030

A Family-focused Green and Smart State
that Inspires the Nation

MAJLIS BANDARAYA PULAU PINANG

CITY COUNCIL OF PENANG ISLAND

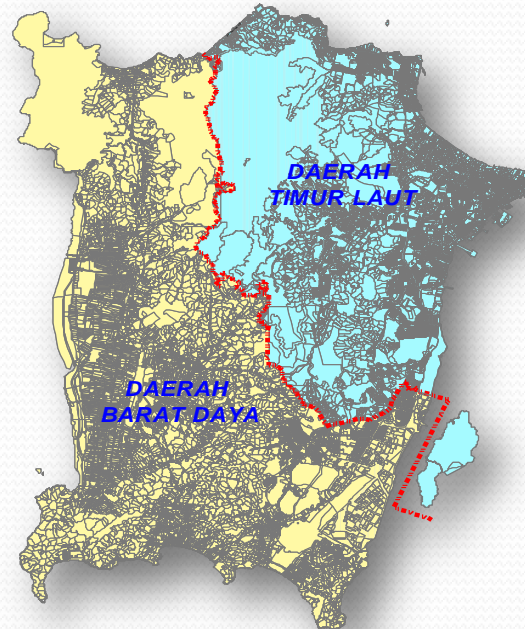
Xavier Sebastian

(Deputy Director Of Urban Services
Department)

27th of February 2020

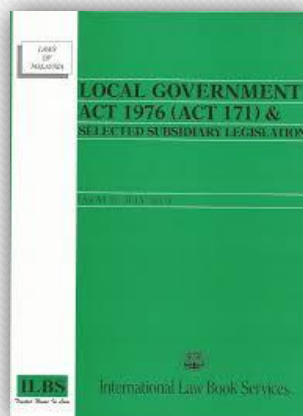
Population

- Penang Island – 738,500 people
 - (area – 305 km²)



Local Government Act 1976

- Penang was **exempted** from the **Solid Waste and Public Cleansing Act 2007 [Act 672]**.



By-laws

- Local Government Act 1976 [Act171].
- Street, Drainage and Building Act 1974.
- Town and Country Planning Act1976
[Act172]

Local Government Responsibility

- To ensure a Good and Efficient System to manage waste.
 - From waste source to disposal.
 - Taking into consideration logistics, technology, manpower, cost, traffic and environment.
- Careful monitoring from collection to disposal.

NO PLASTIC BAG POLICY

In Solving Plastic Waste At Source





Our Hope

- Penang hopes to enforce single-use plastics ban by 2023, we The City Council Of Penang Island will do our part to achieve this gold.

Jan 1st 2011

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Penang: No plastic bags starting next year

Posted on 3 November 2010 - 12:48am

newsdesk@thesundaily.com



GEORGE TOWN (Nov 2, 2010): Starting Jan 1, Penangites must bring a bag along whenever they go shopping as the No Plastic Bags campaign has been extended to every day.

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No Plastic Bag



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**Register for 'No Plastic Bags' or
face action, Penang outlets
warned**

MBPP IS COMMITTED

- WE ARE AWARE OF THIS PLASTIC POLLUTION PROBLEM AND WE ARE SERIOUS IN HANDLING THIS ISU WHICH IS VERY IMPORTANT FOR OUR FUTURE GENERATION.



MBPP acknowledges One of the most urgent issues confronting the world today is plastic pollution and there's obviously been growing awareness in this region about the implications.

MBPP IS VERY COMMITTED



**MBPP committed to
stop plastic from
reaching d ocean**

RUBBISH

- GLOBAL MUNICIPAL SOLID WASTE 1.3 MILLION TONS PER YEAR.





PENANG ISLAND

650 – 800 TONS OF
RUBBISH PER DAY IN
PENANG.

(BATU MAUNG TRANSFER STATION)

STATE OF PENANG ISLAND AND MAINLAND

VOLUME OF WASTE DISPOSAL AT PULAU BURUNG LANDFILL FOR 2019

811,658.48MT

AVERAGE DAILY WASTE :

2,224M/T/DAY

Municipal Solid Waste Composition

- 44.5% - Food Waste.
- **13.2% - Plastic**
 - 12.1% - Diapers
 - 5.8% - Garden Waste
 - 3.3% - Glass
 - 2.7% - Metal

Lifecycle



- Plastic – 20 years.
- Plastic cups – 450 years.
- Plastic straws – 200 years.
- Plastic water bottles – 450 years
- Plastic tooth brush – 500 years (3.5 billion tooth brush is sold every year globally).



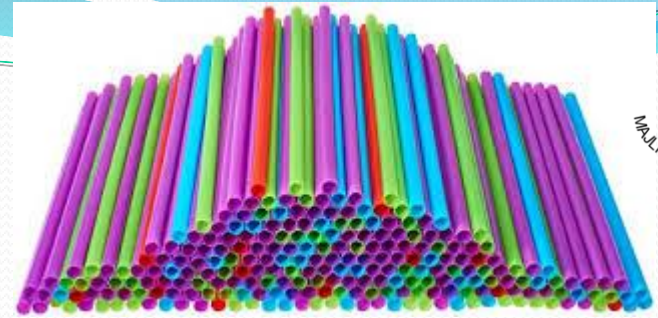
China

- China leading producer of plastic.
- 2017 , 348 million tons of plastic was produced.
 - Packaging : 36%
 - Building : 16%
 - Textile : 14%

PLASTIC SCENARIO IN MALAYSIA

- Malaysia is now one of the main destination to bring in plastic as China has banned import of plastic into China.
- China's National Sword Policy 2018.
- Importation of plastic waste to China. Affecting global recycling activity.

Plastic Straws



Malaysians use up about **31 million plastic straws** every day which is enough to fill up eight school buses per day, 57 per week and 2920 per year.

Our commitment - MBPP

- Local authorities typically commits 40% to 45% of man power to this function of reducing waste including plastic.
- A family focused Green and Smart State.

Penang 2030



Solid Waste And Public Cleansing Management Act 2007

- **Reduction and recovery of controlled solid waste;**
- **-Prescribed recycling and separation of recyclables**
- **-Take back system and deposit refund system**

Our Task

Management of rubbish including plastic

1. Segregation of rubbish.
2. Instill the culture of segregating rubbish at source.
3. Campaign.
4. Public, Private , People & Professional partnership Programmes.

CAMPAIGN NO SINGLE USE PLASTIC



Say No To Plastic Straw

After imposing a state-wide ban on plastic bags 10 years ago, the state government has decided to take the initiative one step further – no plastic bags for shoppers even if they are willing to pay 20 sen starting July 1 2019.

We Can Achieve

A survey conducted by the state government revealed 76 per cent support for the No Single Use Plastics campaign.

We Lead – No Plastic bags since 2009



Thai - retailers just started 2020 with a ban on single-use plastic bags.

Indonesia - The regulation imposes a ban on single-use plastic bags in modern department stores and supermarkets, as well as traditional markets, and requires eco-friendly bags to be available in stores and markets.



The City Council of Penang Island

The environment
belongs to everyone
and we should love the
environment by not
using plastic bags.

No Free Plastic Bag

The state had collected **RM8.9mil** since the “No Free Plastic Bag” move was introduced in 2009, in which such bags are charged 20 sen each.

No plastic at Penang airport

- Business operators at Penang International Airport join hands with MBPP to curb unnecessary plastic waste.

MBPP WORKS CLOSELY WITH THE PENANG STATE GOVERNMENT



Government Events

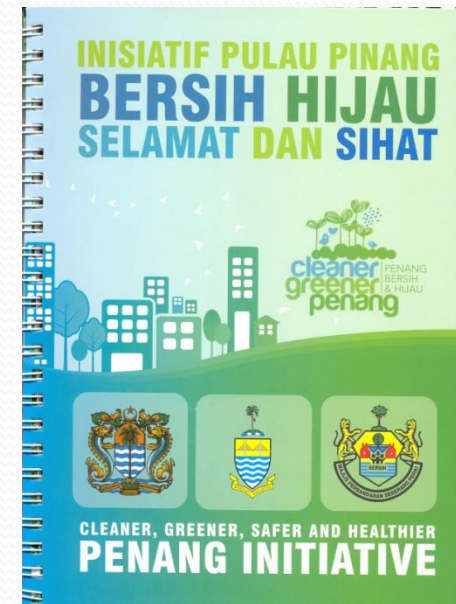
The state government has made a commitment to ban single-use plastics from all government events and hopes to enforce it by 2023.

Mayor Dato' Yew Tung Seang



What We Do

- Talks on no to Plastic Bags and Single use straws on the 4th of April 2019.
- Officiated by YB Phee Boon Poh.
- We invited all Schools to participate.



Recycling Bags Distributed During Ramadhan

- 7th May 2019.
- Green Initiative.



No To Plastic Bag

- 27th Mei 2019.
- With YB Joseph Ng Soon Siang, State Assembly Man for Air Itam.



Poster Distribution No To Plastic Straw



Distribution of Say No TO Plastic Straws And Single Use Plastics

- Distribution of Say No TO Plastic Straws & Single Use Plastics stickers.
- At Gurney Paragon on 8th Mac 2019.



Van Praagh Road Night Market



Dialogue With Public

Auditorium “A” Komtar.



Gotong Royong Say No To Plastic

- 29 September 2019.
- Padang Tembak.
- With Volunteers from Wawasan Open University.



Motorcycle Convoy – Say No To Plastic Bag



- With our dedicated MBPP councilors.
- Chowraster Market, Farlim Market & Bayan Baru Market.



Green School Award

- Green School Award encourage schools and the students to practice recycling and reduce waste.
- 2019, a total number of 75 schools participated.



Waste Segregation at Source

- Begins 1st June 2016.
- Teach our community to identify the types of waste and separate into categories recyclables and unsanitary waste.

PUBLIC PRIVATE PARTNERSHIP



- PUSAT PENGUMPULAN
- *Collection Centre*
- ❑ MBPP (Jln Sungai, Jln Oldham, Jln Chai)
- ❑ Sunshine (Farlim & Square)
- ❑ Stor JPP Jalan Sungai
- ❑ Taman Serina , Jelutong



COLLABORATION WITH NGO



ENVIRONMENT RESOURCE CENTRE



RECYCLING BANK @ SCHOOL PROGRAMME



URBAN FARMING PROGRAMME



Renewable Energy from Waste

A photograph showing a small green plant with several leaves growing out of a pile of colorful, crumbly waste material. The plant is in sharp focus, while the waste is blurred in the background.

**Renewable
Energy from
Waste**

DARCO Water Technologies

The City Council of Penang Island is moving towards Food Waste-to-Energy

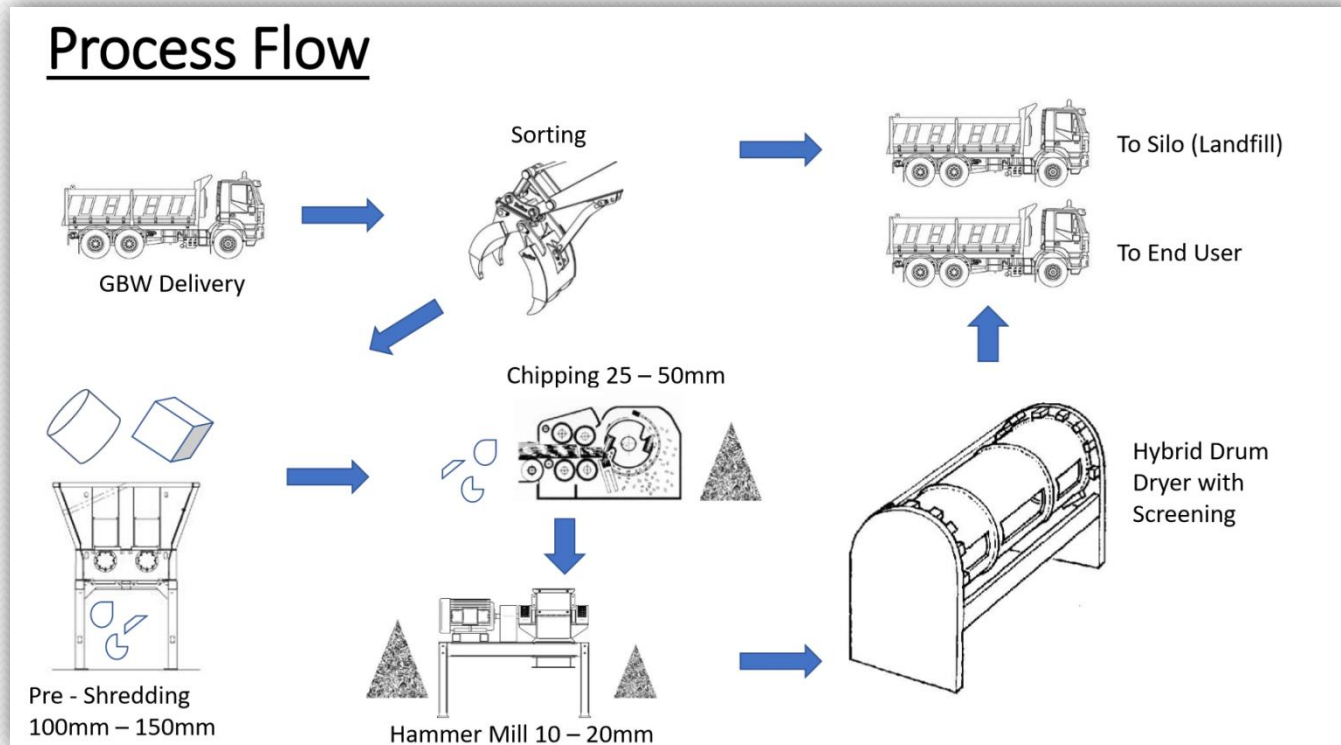


Our Biogas Pilot Plant at Batu Maung Transfer Station



Batu Maung Transfer Station

Recover the green waste and turn into biomass material with capacity at 50 tons per day



Food Waste-to-Energy :Circular Economy



- *Reduced methane from landfill – equivalent to 68,000 t CO₂/year*
- *Reduced use of fossil fuel for electrical – equivalent to 11,000 t CO₂/year*
- *Reduced usage of inorganic fertilizer*
- *Reduction on CO₂ Emission (100t Food Waste/Day)*

OUR TRANSFER STATION AT BATU MAUNG PENANG ISLAND





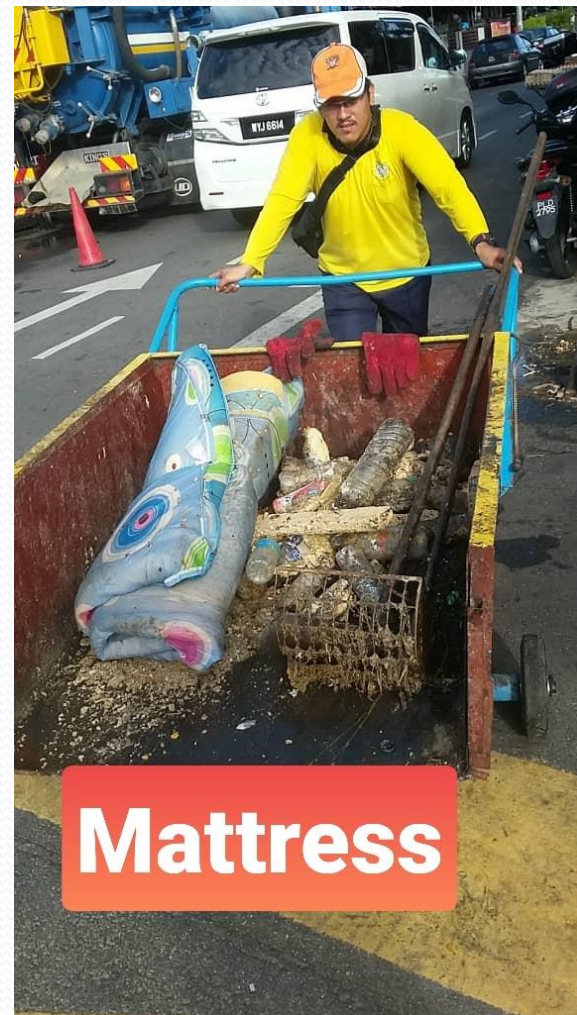
THE CHALLENGES WE FACE



PLASTIC THROWN INTO THE DRAIN

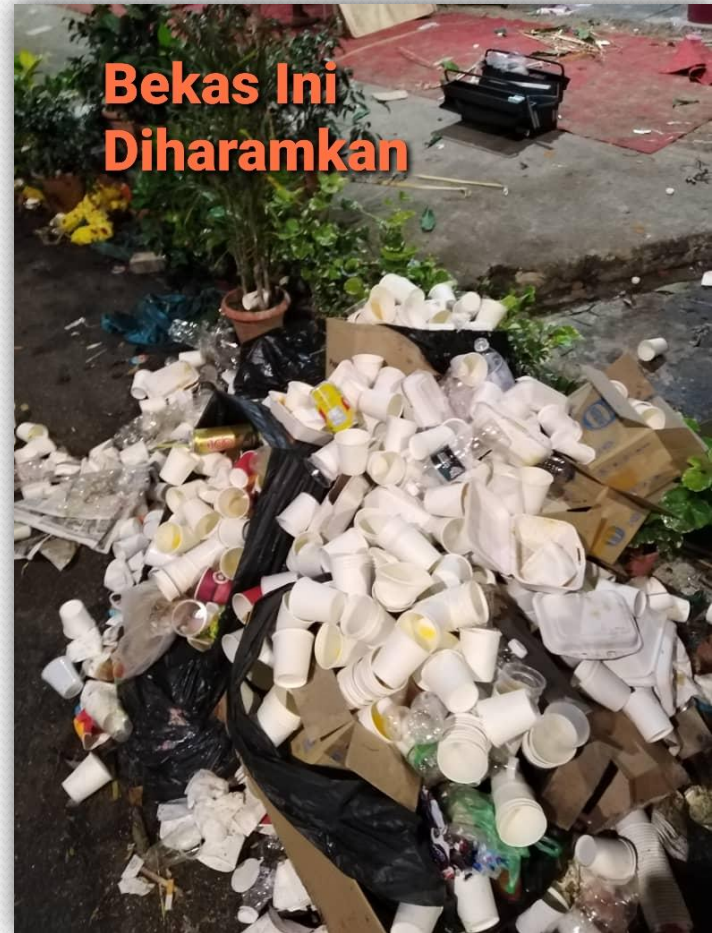


MATTRESS IN THE DRAIN



WE STOP PLASTIC FROM REACHING THE OCEAN





HAWKERS



PUBLIC DO YOUR PART PLEASE



BERPELUH

Hargailah Kami
Do Your Part Too
The People Who
Complain

**But Fail To
Contribute**



Permatang
Damar
Laut

Penduduk
kampung
Menyumbang

MBPP

MBPP



We The **City Council of Penang Island** will continue to go all out together with our state government in solving Plastic Pollution at source

Towards a cleaner, greener,
safer, healthier and happier
Penang





Terima Kasih
Thank You

**MAJLIS BANDARAYA
PULAU PINANG**

