

Stakeholder Consultation on Penang's Green Initiatives

Solving Plastic Pollution At Source

27TH FEBRUARY 2020

Introduction to Green Initiatives in Seberang
Perai to Demonstrate Best Waste Management
Practices and Implementation for
Circular Economy Solutions



Speaker:

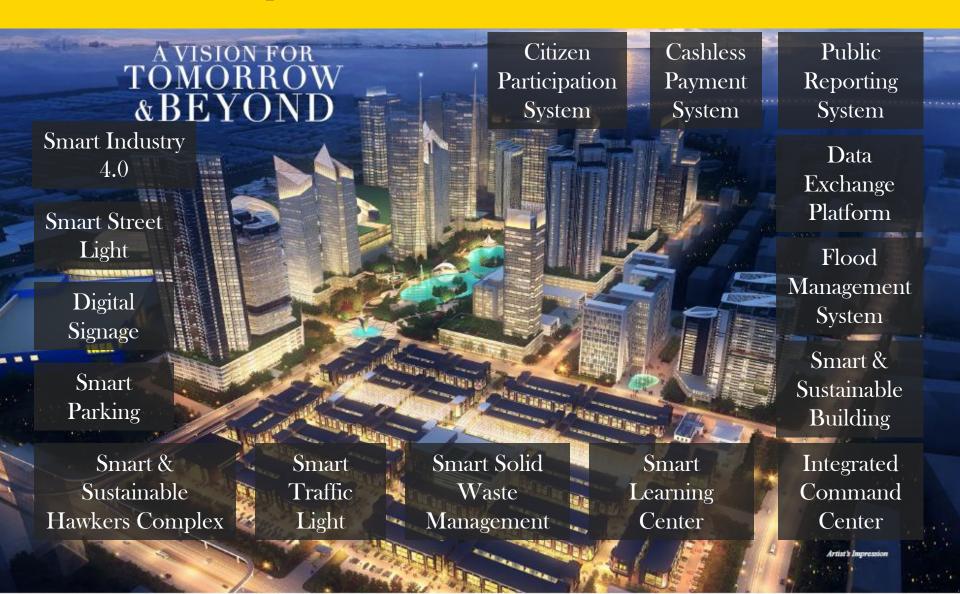
Ahmad Zabri Mohamed Sarajudin

Acting Director of Urban Services

Department, Seberang Perai



SEBERANG PERAI Aspiring City Of Tomorrow





Mision

To provide urban service, development planning and infrastructure efficiently, effectively and responsive to the needs of the community in Seberang Perai



SEBERANG PERAI ASPIRÀSI BANDAR MASA HADAPAN SEBERANG PERAI ASPIRING CITY OF TOMORROW



Corporate Value

We work collaboratively across organization and communities to

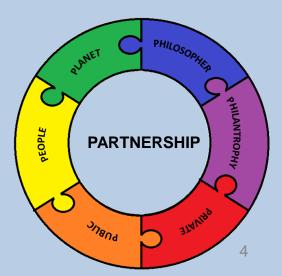
services



Guiding Principles "City for all"

- Improve governance and inclusiveness
- Accessibility and mobility
- No one should be excluded
- Gender responsive and participatory budgeting
- Universal Design

7Ps INCLUSIVE PARTNERSHIP MODEL





STRATEGIC **PLANNING**

FUTURE CITY MODEL:







KEY RESULT AREA:









STRATEGIC PRIORITIES:





SP02 High Quality

Facilities And

Infrastructures







Application Of New Technology



Green Development And Clean Environment



Urban Economy





SDGs VALUES



PEOPLE









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PLANET















17 GOALS **169 TARGETS** 230 INDICATORS



LOCALIZING THE IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT GOALS









































Seberang Perai Commitment:

- i. Seberang Perai City Council is committed to uphold Penang2030 "A Family Focused Green and Smart State That Inspires The Nations"
- ii. Seberang Perai City Council is committed to a **green and low emission** development.
- iii. Seberang Perai City Council is committed to be resilient city.
- iv. Seberang Perai City Council is committed to being **inclusive**, **equitable** and to be **people-centered** in developments.
- v. Seberang Perai City Council is committed to be **competitive** and a **smart city** in developments.







Bandaraya Rendah Karbon



Low Carbon City is a city capable of supplying basic urban development, without neglecting the needs of the population while at the same time controlling greenhouse gas emissions below the global average ie 4.8 tonnes per person.

To achieve this, SP City Council has placed five (5) strategies:-



Strategy 1
Low Emission
Transportation



Strategy 2
Low Emission
Building



Strategy 3
Low Emissions
Infrastructures



Strategy 4
Sustainable
Production &
Consumptions



Strategy 5
Greenery &
Sequestrations

Melabur dalam membina persekitaran untuk meningkatkan daya tahan



















Kadar kitar semula meningkat kepada 70% dan penjanaan sisa berkurang sebanyak 50% per kapita pada tahun 2022.

Kempen kad pintar *Recycle* for Life untuk semua pekerja Majlis Bandaraya Seberang Perai















- a) Waste To Protein- Sisa makanan digunakan untuk membiak Black Soldier Fly (BSF). Larva BSF mengandungi sumber protein yang tinggi untuk makanan haiwan. Tapak yang dicadangkan telah dikenal pasti untuk tujuan itu.
- b) Waste To Compost- Sisa sampah/ sisa makanan dikompos dan digunakan untuk pertanian dan pertanian.
- c) Waste To Energy- Sisa kebun / sisa makanan / sisa organik digunakan sebagai sumber tenaga. Sebagai contoh, pengeluaran woodchip sebagai bahan api untuk industri dandang. Pelaksanaan sisa kepada tenaga akan ditingkatkan ke skala yang lebih besar.



Seberang Perai Smart Consumption Model





Recycle

Close the loop and remake.

Refuse

Don't consume what you don't need to.

Recover

Energy and materials recovery. And upcycle!

Rethink

consumption, your relationship with 'things' and your relationship

Re-gift

Share, and be a part of the gift economy.

Be mindful of your with the Earth.

Repair

Fix or upgrade your objects rather than throwing them away.

Reduce

Reduce consumption of energy and materials.

Re-use

Share with others. Find new uses for old objects.









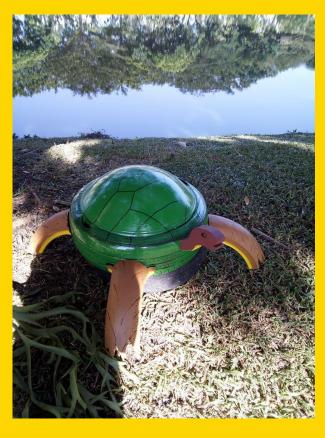
Upcycle Park



UPCYCLE PARK







UPCYCLE PARK







UPCYCLE PARK









Seberang Perai Waste Data

	WASTE RECYCLED		RECYCLABLES		BIODEGRADABLE S		ACTUAL WASTE		TOTAL	
2011	144,672	26.48%	132,161	24.19%	219,467	40.17%	50,045	9.16%	546,345	100.00%
2012	157,267	29.77%	125,994	23.85%	197,945	37.47%	47,069	8.91%	528,275	100.00%
2013	207,826	32.70%	151,643	23.86%	221,046	34.78%	55,039	8.66%	635,555	100.00%
2014	233,784	35.00%	163,716	24.51%	214,280	32.08%	56,175	8.41%	667,955	100.00%
2015	289,260	39.64%	166,522	22.82%	217,310	29.78%	56,626	7.76%	729,718	100.00%
2016	322,216	42.61%	172,338	22.79%	207,879	27.49%	53,766	7.11%	756,198	100.00%
2017	345,292	43.25%	200,389	25.10%	201,108	25.19%	51,574	6.46%	798,364	100.00%
2018	425,681	47.16%	223,221	24.73%	200,294	22.19%	53,436	5.92%	902,631	100.00%

RECYCLING RATE 2008 - 2019

YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
WASTE (TONS)	564,941	560,602	555,956	546,345	528,275	635,555	667,955	729,718	756,198	798,364	902,631	1,143,995
RECYCLING (TONS)	124,121 (21.97%)	132,039 (23.55%)	129,804 (23.3%)	144,682 (26.48%)	157,286 (29.77%)	207,849	233,790 (35%)	289,258 (39.64%)	322,189 (42.60%)	345,329 (43.25%)	425,640 (47.15%)	590,773 (51.64%)

69 Recycling Centre







CLEANLINESS & SOLID WASTE MANAGEMENT BUDGET FOR SEBERANG PERAI CITY COUNCIL

	2015	2016	2017	2018	2019	2020
Clealiness & SWM budget	RM	RM	RM	RM	RM	RM
	93,677,730	98,244,475	100,781,167	103,260,586	100,410,956	102,881,138
Total	RM	RM	RM	RM	RM	RM
	243,836,559	265,101,944	279,130,208	293,468,850	295,998,456	349,162,340
%	38.42%	37.06%	36.11%	35.19 %	33.92 %	29.47 %

Seberang Perai City
Council has been spending more than RM100 million annually on Solid Waste Management





PLASTIC WASTE POLICY

- No Free Plastic Bag
- No To Single-Use Plastic
- Plastic Recycling Industry Best Practices





NO FREE PLASTIC BAG

- All premises are involved except hawkers and wet market.
- RM 0.20 chargers for each piece of plastic bag.
- Fund collected by the Penang State Government will be channelled to the Penang Welfare Fund Account for the use of the Community Welfare programs in Penang.

MBSP "NO FREE PLASTIC BAG CAMPAIGN"

DATE	CAMPAIGN
1 July 2019	No plastic bag for every Monday.
1 January 2020	No plastic bag for every Monday, Tuesday and Wednesday.

Activities Carried Out To Reduce Plastic Consumption

- Green School Award
- Practicing 'Do not want plastic' or 'no single use plastic'
- Recycle Campaign
- Plastic collection is one of the criteria to determine winner.





GREEN SCHOOL AWARD PARTICIPATION

YEAR	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Primary School	14	19	33	59	72	99	104	106	116	118
Secondary School	16	17	20	27	34	42	45	46	47	48
Total	30	36	53	86	106	141	149	152	162	166

- Beach Cleaning
- Students participate in beach cleaning once a month
- River water quality training
- •Students are given education and training on river water quality through observation, fiscal and chemical analysis
- Sustainable Community Award
- •Criteria include recycling and single-use plastic reduction campaigns.

Schools Recycling Competition with Fraser&Neave Holdings Bhd

YEAR	SECONDARY SCHOOLS	PRIMARY SCHOOLS	KINDERGARTEN	TOTAL WASTE	TOTAL PLASTIC
2017	24	41	-	54,090.75	9876.90
2018	29	41	2	114,567.36	15,926.55
2019	30	44	9	141,559.75	16,748.52

Upcycle Carnival

Non-recyclable plastic which is unrecyclable will be collected for upcycle and sale items for Upcycle Carnival and Grow Community Market.





No Plastic Straw Campaign

- All premises that provide drinks and food are required to register with MBSP for campaign execution.
- Drinks and food premises are no longer allowed to provide plastic straw at the corner / counter.





- Plastic straws will be provided to consumers only upon request and no longer by default for every food and beverage purchase.
- Beverage and food premises are allowed and encouraged to use substitute items to replace plastic straws.

Example: Straw made from organic products that is not gives negative impact on the environment.

Plastics pollution effects:

Environment

- •The plastics debris represents a chemical pollution
- •Affect the growth of crops

Animals

- •Imprisonment of animals in nets and or large debris.
 - •Ingestion that concerns the entire food chains of the marine ecosystems

Humans

•Exposure to toxic chemicals can cause cancers, birth defects, impaired immunity and health problems

KNOWLEDGE IS POWER

- Give up Plastic Bags
- Skip straws
- Pass up plastic bottles
- Bring your own food container
- Avoid plastics packaging
- Recycle what you want
- Don't litter
- Segregation at Source
- Educate people to aware



PEOPLE



PUBLIC



PRIVATE



PHILANTROPHY

7Ps Inclusive Partnerships toward realization of Sustainable Development Goals







PHILOSOPHER



PLANET



PARTNERSHIP

