



# PETALING JAYA INITIATIVES ON DECARBONISATION IN THE CITY

**IGES High Level Talks : Towards Smart, Zero Carbon and Climate-Resilient Cities  
in Malaysia and Japan**

19<sup>th</sup> October 2023







# PETALING JAYA

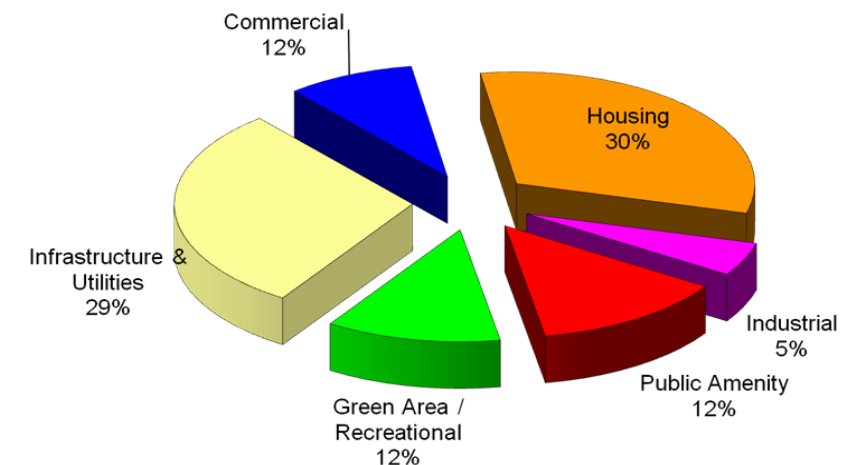




- To provide quality facilities and services for the prosperity of Petaling Jaya.

- Petaling Jaya leading towards a dynamic and sustainable City

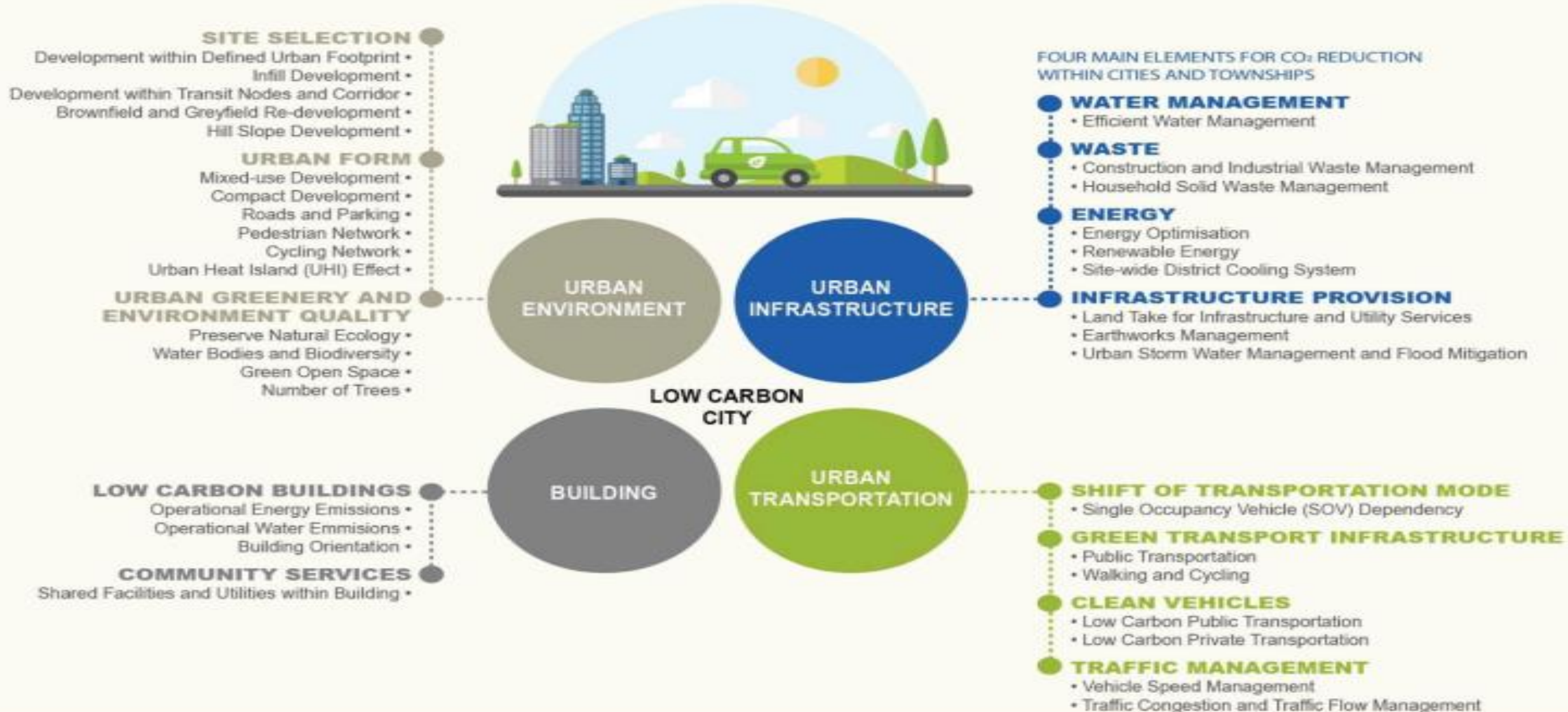
## Landuse



# LOW CARBON INITIATIVES IN PETALING JAYA



## EMERGING MOVEMENT TOWARDS LOW CARBON CITIES



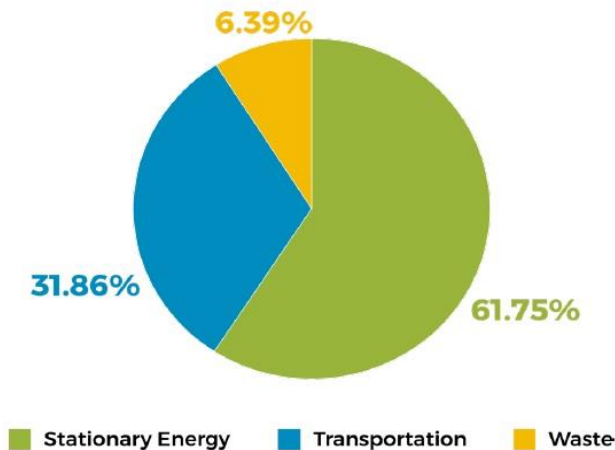


# SNAPSHOT OF PJ CLIMATE ACTION PLAN



## Petaling Jaya Climate Action Plan 2030

Population of Petaling Jaya : 771,687 (2018)



**5,000,436**  
tCO<sub>2</sub>eq

Total GHG Emission  
Petaling Jaya

**6.48**  
tCO<sub>2</sub>eq

Emission Per Capita  
Petaling Jaya

### MITIGATION TARGETS

#### PETALING JAYA

**40%**  
by 2020

National Target at  
COP15

**45%**  
by 2030

National Target at  
COP21  
Reduction carbon  
intensity, base year  
2005

**33%**  
by 2030

Petaling Jaya City  
Council  
Reduction in absolute  
GHG carbon emission,  
base year 2021

Figure 16: Baseline emission inventory Petaling Jaya

(Source: Petaling Jaya's City Inventory Reporting and Information System (CIRIS))

### ADAPTATION GOALS

#### PETALING JAYA

Decrease  
Flooding  
by Better  
Protection



Reduce  
Number of  
Dengue  
Cases



Increase  
Resilience  
against  
Drought



#### PETALING JAYA

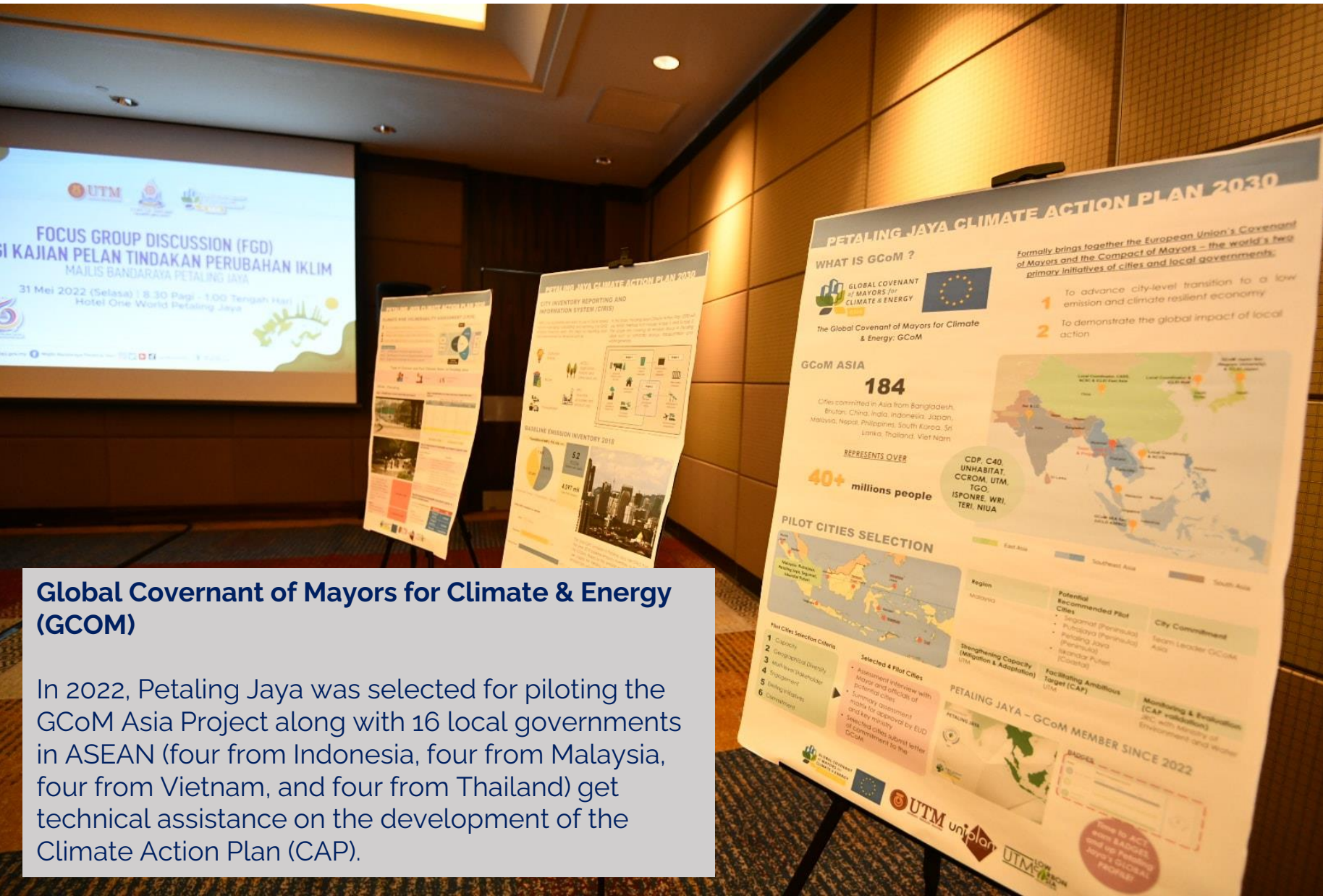
**6**  
THEMES

**56**  
PLANNED  
ACTIONS

1. Renewable Sources and Energy Efficiency
2. Sustainable Urban Planning and Building Regulations
3. Pedestrian First and Green Transportation
4. Green Space Planning and Management
5. Social Sustainability and Empowered Communities
6. Disaster Risk Reduction Management

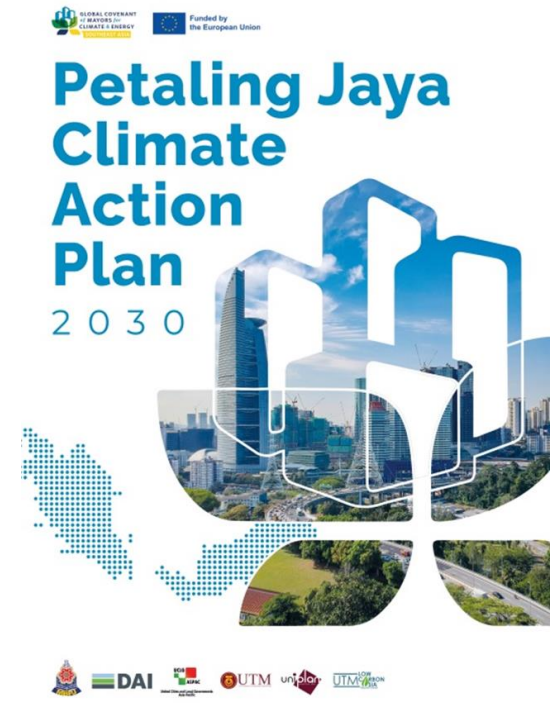


# Partnering with GCoM and Universiti Teknologi Malaysia for formulation of the new climate actions plan.



## Global Covenant of Mayors for Climate & Energy (GCoM)

In 2022, Petaling Jaya was selected for piloting the GCoM Asia Project along with 16 local governments in ASEAN (four from Indonesia, four from Malaysia, four from Vietnam, and four from Thailand) get technical assistance on the development of the Climate Action Plan (CAP).



# PJSSR 2030 as guiding strategic documents



## *PETALING JAYA* *SMART, SUSTAINABLE & RESILIENT 2030*

*#sustainablePJ2030*

*#PJCityOne*

*#PJKita*





# 10 'THEMATIC PROJECT PJSSR 2030

## E-GOVERNANCE CITY

- Digitalisasi Kesemua Sistem Perkhidmatan Majlis Ke Arah Sistem Penyampaian (Delivery System) Yang Lebih Cekap Dan Telus
- Indeks Penarafan Bintang pada Tahap 5 Bintang Setiap Tahun
- Pengiktirafan Antarabangsa Dan Nasional Bagi Amalan Baik (Best Practice)
- Peratusan Kepuasan Penduduk Terhadap Perkhidmatan Majlis melebihi 95%
- Pematuan ksesemua Pensijilan ISO
- Peratusan Pencapaian Kutipan Hasil Melebihi 90%

## SMART CITY

- Pelaksanaan PJ Smart City disemua 12 Jabatan dan 6 Unit MBPJ

## SOCIETY 5.0 CITY

- Citizen Domain Dan Penyertaan Komuniti Dan Stakeholder : PJKita Community Dan PJCity One Platform
- i-SSR Merekodkan Inisiatif Pelaksanaan SDG Oleh Kejiranan, NGO, Korporat Dan Individu
- Kesemua Dashboard Smart City Mengandungi Citizen Domain Kebun Komuniti Mampan Di Kawasan Kejiranan (Pusat 3R, Pusat Kompos, SPAH) : Kesemua 274 Kejiranan
- Kesemua 274 Kawasan Kejiranan melaksanakan Inisiatif 17 SDG Dan Pelaporan Ke Dashboard Smart City Melalui PJCity2U

## ECONOMICAL VIBRANT CITY

- Membangunkan Tapak Pembangunan Baru antara 20 – 30% di KWASA Damansara
- Urban Regeneration di Seksyen 13 – 60-70%, Seksyen 51, Seksyen 51A dan Seksyen 19 – 10-20%
- Pembangunan Semula Kawasan-kawasan Perumahan Di Zon Perdagangan Terhad mencapai 60%
- Latihan Keusahawanan Kepada Golongan Belia Termasuk Belia Dari Kumpulan Miskin Bandar Dan B40 meliputi 10 Usahawan / tahun

## LEARNING CITY

- Mengekalkan status PJ sebagai Bandaraya Pembelajaran ('Learning City')
- Pematuan Prinsip 'Life Learning City' Oleh UNESCO

## LOW CARBON CITY

- Pengurangan Pelepasan Karbon
  - Kediaman : 4kilo tCO<sub>2</sub> / Tahun
  - Industri Dan Komersil : 33kilo tCO<sub>2</sub> / Tahun
  - Pembangunan Baru : 15kilo tCO<sub>2</sub> / Tahun
  - Kenderaan Persendirian : 30 kilo tCO<sub>2</sub> / Tahun
- 40% Modal Split Bagi Pengangkutan Awam

## CIRCULAR ECONOMY CITY

- Pengurangan Sisa Makanan sebanyak 50% Berbanding Tahun 2020
- Kadar Kitar Semula Sampah : 30% / Kenaikan Tahunan Melebihi 2%
- Penjana Sisa Pepejal Perkapita Kurang Daripada 10% Berbanding Tahun Sebelumnya

## SAFE AND RESILIENT CITY

- Kadar Penurunan Jenayah sebanyak 5% Setiap Tahun
- Nisbah Kes Penyakit Bawaan Air & Vector Kurang 40 Kes / 10,000 Penduduk
- 100% Persekitaran Sekolah Selamat Dan Selesa
- Sifar Penjaja Tanpa Lesen
- Penduduk Terjejas Oleh Banjir Kurang Daripada 3%
- 100% Liputan Pengesanan Amaran Banjir Di Semua Aliran Utama Dan Sungai
- 100% Projek Yang Dikendalikan Oleh Majlis Mematuhi Keperluan OSHE
- Bilangan Penduduk Miskin Kurang daripada 0.6%

## INCLUSIVE CITY

- Kesemua 23 Pusat Bandar Utama Aksesibel Kepada PWDs Dan 'UD Compliance Certified'
- Kesemua Pusat Membeli Belah Di Lengkapi Kemudahan TLK Wanita Dan Bilik Penyusuan
- Program Pemerkasaan Remaja melibatkan 30 Orang Remaja / Tahun
- Memperkasakan Ekonomi Golongan Warga Emas Dan OKU

## CHILD FRIENDLY CITY

- Mencapai Status "Bandaraya Mesra Kanak-kanak" menjelang Tahun 2023
- Pengurangan Kanak-kanak Miskin : 50% Dari Baseline Data Tahun 2021





# Green Buildings for New Development



Eco-friendly development manual (MASMA) specifications.

Green building index (GBI) compliance.

A landscape area of about 10% to 15% out of total development area.

A rainwater harvesting system.

Use of light emitting diode (LED) lamps.

PJ Sentral Garden City



# Energy efficiency programs with Sustainable Energy Development Authority (SEDA Malaysia)



Date of Issuance : 28 April 2021  
SEDA LCB Certificate No: SEDA LCB/No. 139

## CERTIFICATE 2019

SEDA MALAYSIA SUSTAINABLE ENERGY  
LOW CARBON BUILDINGS ASSESSMENT  
GREENPASS OPERATION



It is hereby awarded to

**KOMPLEKS SUKAN ASTAKA**  
Petaling Jaya

DIAMOND RATING:



Successfully achieved emission reduction of  
**59.58%**  
Equivalent to  
**38.23 tonne CO<sub>2</sub>/year**  
**55,084 kWh/ year**

Baseline year : 2016 Reporting year : 2019 (absolute reduction)  
Assessment boundary: Operational Energy (Electrical Energy only) based on  
Common Carbon Metric & GreenPASS assessment method


**(Dato' Hamzah Bin Hussin)**  
Chief Executive Officer  
Sustainable Energy Development Authority  
(SEDA) Malaysia

\*This certificate is a voluntary initiative by SEDA Malaysia to promote energy saving & carbon reduction and does not intended for any other purposes

Date of Issuance : 19 May 2021  
SEDA LCB Certificate No: SEDA LCB/No. 2021 (26)

## CERTIFICATE 2020


SEDA MALAYSIA SUSTAINABLE ENERGY  
LOW CARBON BUILDINGS ASSESSMENT  
GREENPASS OPERATION



It is hereby awarded to

**MENARA MAJLIS BANDARAYA PETALING JAYA**  
Petaling Jaya, Selangor

DIAMOND RATING:



Successfully achieved emission reduction of  
**10.13%**  
Equivalent to  
**270.53 tonne CO<sub>2</sub> / year**  
**389,812 kWh / year**

BEI : 124.25 kWh / m<sup>2</sup> / year  
Based on Net Floor Area : **27,832.50 m<sup>2</sup>**

Baseline year : 2016 Reporting year : 2020 (absolute reduction)  
Assessment boundary: Operational Energy based on Common Carbon  
Metric & GreenPASS assessment method

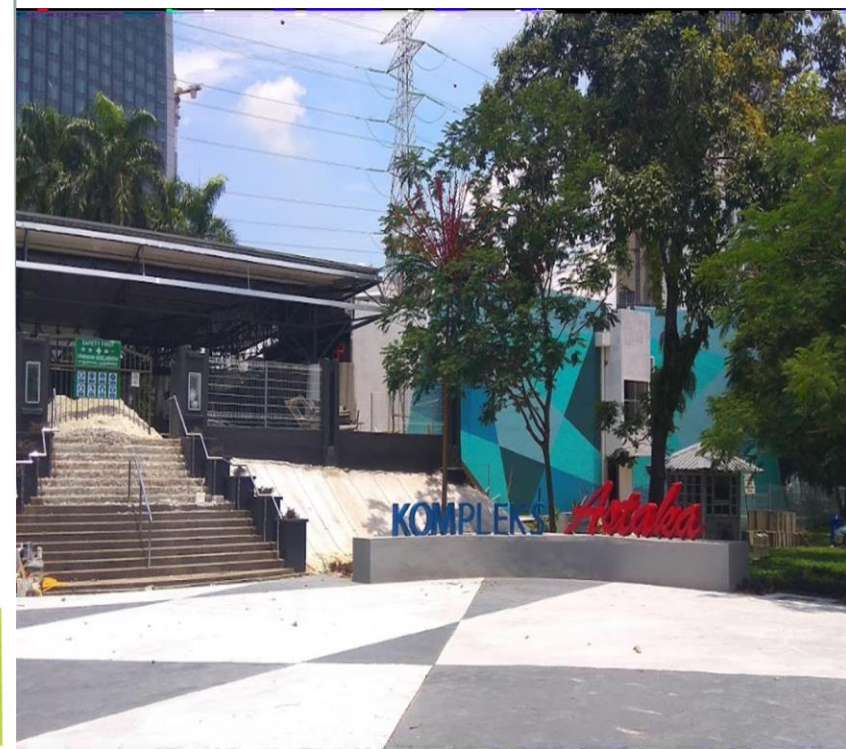
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## BEDOS

**BUILDING ENERGY DATA ONLINE MONITORING SYSTEM**  
(For Sustainable Energy Low Carbon Building Assessment-GreenPASS Application)





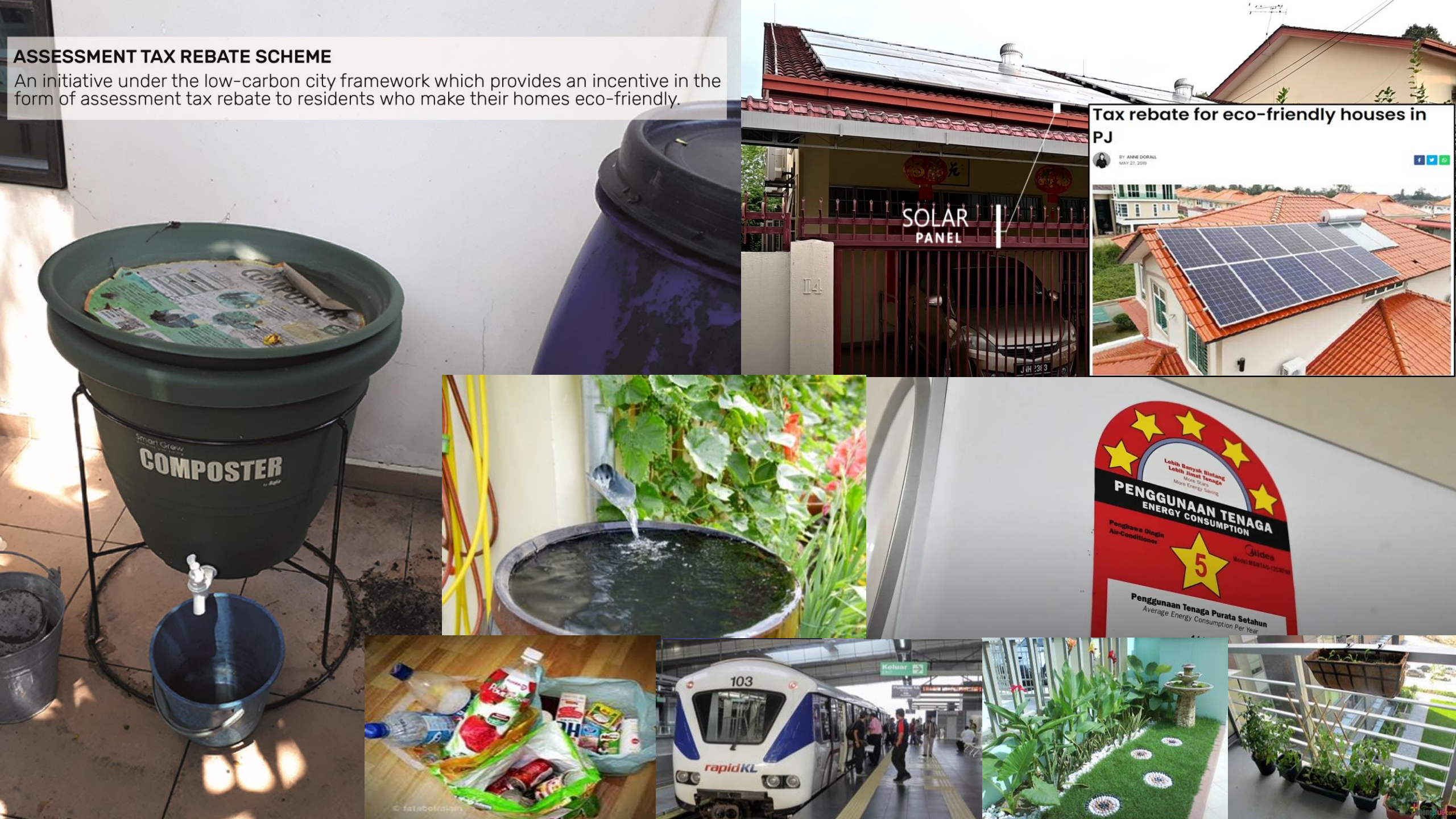
# Free Bus Services





**ASSESSMENT TAX REBATE SCHEME**

An initiative under the low-carbon city framework which provides an incentive in the form of assessment tax rebate to residents who make their homes eco-friendly.



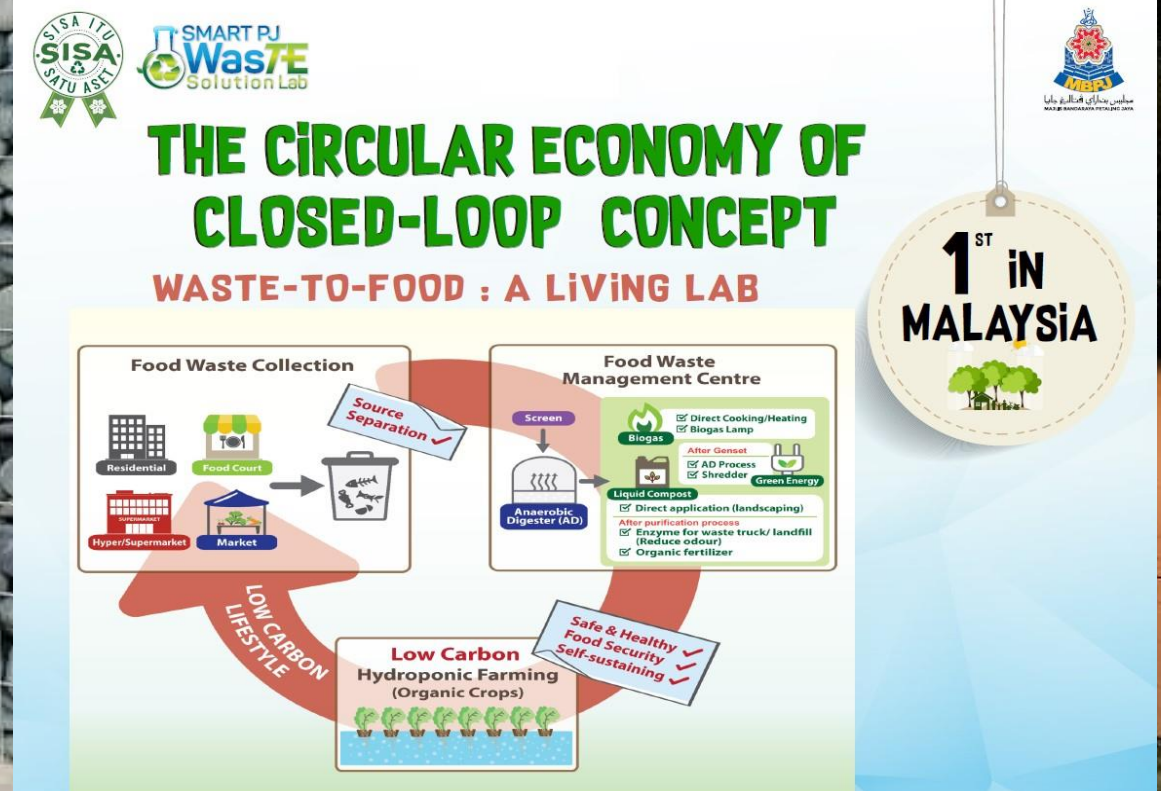




A One Stop recycling centre



## A food waste composting centre using anaerobic digester







#### RECYCLED SACK PROJECT

To overcome the problems of vinyl and PVC flex that are difficult to degrade



#### Door To Door Recycling



#### Community garden



#### Rainwater harvesting



# Renewable Energy (rooftop solar panels) – PJ Innovation Centre



Installation rooftop Solar PV with ESCO

Capacity = 250 kWp



# ACHIVEMENTS



Winner of ASEAN Energy Awards 2022 and National Energy Awards 2022 for energy-efficiency building category.

**ASEAN ENERGY AWARDS 2022**

**Energy Efficient Building**  
Special Submission  
Zero Energy Building

**Winners**

**ASTAKA SPORT COMPLEX**  
Majlis Bandaraya Petaling Jaya (MBPJ)  
Malaysia

**Frontier National**  
National University of Singapore (NUS)  
Singapore

**Shell HO 1 Building**  
Shell Company of Thailand, Bangkok Head Office  
Thailand

**SMU Connexion**  
Singapore Management University  
Singapore

**MR JONATHAN GOH** | DIRECTOR OF EXTERNAL RELATIONS, ENERGY PLANNING AND DEVELOPMENT DIVISION, ENERGY MARKET AUTHORITY, SINGAPORE

Accelerating Energy Transition: Sustainable Growth and Energy Security

zoom

**ASEAN ENERGY AWARDS 2022**

**Off Grid Thermal**

**2<sup>nd</sup> Runner Up**

**1<sup>st</sup> Runner Up**

**Winner**

**Biogas Production for Cooking by using Food Waste Anaerobic Digester in Smart PJ Waste Solution Lab, SS 2 Petaling Jaya**  
Petaling Jaya City Council (MBPJ)  
Malaysia

**Community Biogas System from Swine Farming Project**  
PTT Public Company Limited (PTT)  
Thailand

**Apply Biogas instead of Bunker Oil in Palm Kernel Oil Production**  
Thai Eastern Pao Power Co., Ltd  
Thailand

zoom

**Overall Savings Based on Total Energy.**

**106,218 kWh/year**  
Baseline (2015)

**37,366 kWh/year**  
Reporting Year (2019)

**68,852 kWh/year**  
The Total Reduction

= Baseline – Reporting Yr  
= 106,218 - 37,366.00

**40 Ton CO<sub>2</sub> Carbon Reduction**

\*Note: Based on emission factor of 0.585 tCO<sub>2</sub>/MWh (Peninsular Malaysia) - 2017 CDM Electricity Baseline for Malaysia.

**Percentage savings**  
**64.8% reduction**

(qualify for ZEB READY)

**ZERO ENERGY BUILDING**  
SERA MALAYSIA

**ENERGY-EFFICIENT BUILDING**  
Zero Energy Building

**WINNER**  
Kompleks Sukan Astaka, Petaling Jaya

zoom

**RENEWABLE ENERGY**  
Off Grid - Thermal

**MERIT**  
Majlis Bandaraya Petaling Jaya

zoom



# NATIONAL SCROLL OF HONOUR AWARD FOR HUMAN SETTLEMENTS 2021



UN HABITAT  
Sustainable Urban Future

Bersama  
Hentikan  
Wabak  
COVID-19

TEMPAT PERTAMA

## MAJLIS BANDARAYA PETALING JAYA



TAJUK:

“ASSESSMENT TAX REBATE FOR  
ECO-FRIENDLY HOUSE OWNERS IN  
PETALING JAYA”

WANG TUNAI BERJUMLAH

RM 5,000.00

PENGHARGAAN



### National Scroll of Honour for Human Settlement 2021

1. Ministry of Housing and Local Government of Malaysia was hosting the National Scroll Of Honor Award For Human Settlements Competition with theme Accelerating Urban Action For A Carbon-Free World.
2. Project on Assessment Tax Rebate For Eco-Friendly House Owners was selected as a Winner for 2021



# Winners of the 2019 Unesco Learning City Award for exemplary progress and commitment to promote education and lifelong learning at the local level



PJ KNOWLEDGE WEEK 2020 Localizing Sustainable Development Goals		
JANUARY	FEBRUARY	MARCH 10 <sup>th</sup> - 13 <sup>th</sup>
<b>SUSTAINABLE DEVELOPMENT GOALS</b> 		
<b>Empower The Underprivileged</b> <b>ACTIVITIES</b> • Talk: Bazar Ramadhan, Food Aid Programme, E-Wallet (bawakan) • Training: Yayasan Sathya Sai, TIKUN Nasional, Ammah Bilhar Malaysia • Demo: Johor, Ayo Shop, Cerebral • Kamisan: Kamisan Kerjaya, Preloved Bazar, Free Market, YouCanDoIt • Free T-shirt for underprivileged		<b>Industry, Innovation and Infrastructure</b> <b>ACTIVITIES</b> • Talk: Knowledge Sharing on SDG (Proton PRC & VP Impact Consulting) • Demo: Custom SIG, Smart Traffic Light, Smart Transportation Assistant @ PJ City Bus • Games: SDG Games Cabinet • Product: Mobile One Street Digital Platform • Exhibition: Air Quality Dashboard
APRIL 1 <sup>st</sup> - 3 <sup>rd</sup>	MAY	JUNE
<b>EMPOWERING THROUGH KNOWLEDGE TOWARDS ACHIEVING A SMART SOCIETY</b>		
<b>Unity in Diversity</b> <b>ACTIVITIES</b> • Talk: Women Empowerment (The Asia Foundation, Engender, UNDP) • Training: Empowering Women in Cyber Risk Management (IPWR) • Kamisan: Jari Jari Jarak, Usahatika • Demo: I-KIT, I-Kaulitika • Workshop: Bengkel Selamatkan Diri Anda (SelSA), SelSA Baiter		
<b>Safety and Health</b> <b>ACTIVITIES</b> • Talk: Health & Wealth (Hospital Thomson & Jabatan Kesihatan MBPJ) • Demo: QMS Silver by Sains Jaluri • Games: QMS Treasure Hunt • Product: Green Living, Kalkulator • Kamisan: Occupational Safety & Health • Sharing Session: SHELIP, SHELIP • Exhibition: Baiter Selamatkan Diri Anda (SelSA), SelSA Baiter		<b>Quality Education</b> <b>ACTIVITIES</b> • Talk: Smart Schools in Malaysia • Training: ICT Skills & Technology, Teachers and Orating Skills Learning (OC, Multimedia and Photography Class, Business Online Coaching and Writing Workshop) • Demo: Ayo Shop, Cerebral • Exhibition: Kalkulator
JULY 27 <sup>th</sup> - 30 <sup>th</sup>	AUGUST 24 <sup>th</sup> - 28 <sup>th</sup>	SEPTEMBER 21 <sup>st</sup> - 25 <sup>th</sup>
<b>Sustainable Cities &amp; Communities</b> <b>ACTIVITIES</b> • Talk: Localizing SDGs (UNDP, Child Friendly City (UNICEF) • Training: MBPJ, Chiklila Malaysia, EPIC Communities, PAM, IMA • Demo: PFI, SDG Tracker, Smart Transportation Assistant @ PJ City Bus • Games: Keep River Clean Competition • Product: Water Quality Testing Kit, CO2WAY		
<b>No Pollution on Lakes &amp; Rivers</b> <b>ACTIVITIES</b> • Talk: River of Life, Water Warriors, Love Our River Campaign • Training: Global Environment Centre • Demo: Friends of Sp. Way, Friends of Sp. Pandak • Games: Keep River Clean Competition • Product: Water Quality Testing Kit, CO2WAY		<b>Green and Sustainable Living</b> <b>ACTIVITIES</b> • Talk: 8H and Circular Economy (IRC) • Training: Transforming Waste To Wealth • Demo: Lapsara Product, Double A • Kamisan: Save Our Earth • Games: Treasure Hunt • Sharing Session: Smart Banger (SK Sri Rahmah, LCCD MPP, GRI (GRI))
OCTOBER 26 <sup>th</sup> - 30 <sup>th</sup>	NOVEMBER 9 <sup>th</sup> - 13 <sup>th</sup>	DECEMBER 1 <sup>st</sup> - 4 <sup>th</sup>

The Petaling Jaya Learning City Model identifies 8 Core Learning Categories and 9 Target Groups.

The "8 Core Learning Categories" is established to ensure all lifelong learning needs are addressed and provided to the people of Petaling Jaya, while the "9 Target Groups" ensures every segment of the community is addressed in the lifelong learning journey and no one is left behind.

8

Core Learning Categories

Arts & Culture  
Education  
Entrepreneurship  
Health & Wellness

Environment  
Spirituality  
Technology  
Safety

9

Target Groups

MBPJ Officers  
Working People  
Business Community  
Women  
Youth

Children  
Elderlies  
Urban Poor  
Marginalised /  
With Special Needs



\*Jadual tertakluk kepada perubahan yang akan dimaklumkan



# Petaling Jaya is a CDP A List City 2019



## Petaling Jaya

Setting a high standard for economic and climate leaders

**As an A List city we're  
leading by example to  
act on climate change**





# Petaling Jaya is First UNICEF Child Friendly City in Malaysia.



UNICEF recognizes Petaling Jaya commitment to child rights for sustainable development.



# 56 PLANNED ACTIONS



## THEME 1: RENEWABLE SOURCES AND ENERGY EFFICIENCY

- B1** Ensure new developments are integrated with rainwater harvesting systems and grey water recycling for non-potable usage
- B2** Promote installation of photovoltaic (PV) and solar thermal systems on institutional, commercial, industrial and residential buildings
- B3** Promote solar water heaters in new developments
- B4** Install energy efficiency (EE) equipment and smart meters for MBPJ assets (government office, community halls, market, stadium etc.)
- B5** Install energy efficiency (EE) equipment and smart meters on commercial buildings as an energy saving initiative
- B6** Install energy efficiency (EE) equipment and smart meters on industry operation especially boilers and furnaces
- I1** Install solar powered street lights in urban center and all new developments
- I2** Promote biogas plant from food waste of commercial and residential units (Waste to Energy)



## THEME 4: GREEN SPACE PLANNING AND MANAGEMENT

- E4** Protect all existing forests and green spaces through gazette
- E5** Establish and manage new multi-function green spaces in Petaling Jaya
- E6** Promote vertical green spaces or rooftop garden in commercial buildings, schools and government buildings
- E7** Adopt "Sponge City" concept in the new development project
- E8** Improve green linkages that connect pedestrian and bicycle network
- E9** Set target on planting number of trees in Petaling Jaya (1 resident 1 tree)
- E10** Promote Nature Based Solution (NBS) as sustainable management and the use of nature features to tackle social environmental challenges



## THEME 2: SUSTAINABLE URBAN PLANNING AND BUILDING REGULATIONS

- B7** Promote adoption of passive architecture in new buildings (natural ventilation, shading, and lighting)
- B8** Promote the use of sustainable materials in construction
- B9** Promote ZEB or NZEB in all new developments with minimum BEI
- B10** Retrofit existing buildings and amenities to improve energy and resources efficiency
- B11** Adaptively reuse existing buildings and amenities to reduce construction waste
- E1** Redesign Petaling Jaya to be more compact in line with the 15 min city concept especially in the CBD and transit station
- E2** Carry out feasibility study and implementation for industrial symbiosis (including Waste-to-Wealth) for existing industrial area
- E3** Encourage sustainable low carbon urban renewal
- I3** Promote smart and digital technology for community sustainability real time information display



## THEME 5: SOCIAL SUSTAINABILITY AND EMPOWERED COMMUNITIES

- S1** Set up Low Carbon Residential Association involving MBPJ's councilors
- S2** Implement 'No Single-Use Plastic Bag' in commercial areas and vendors
- S3** Organise 'One Neighbourhood, One Urban Farm' program
- S4** Promote urban farming in schools and involve the school children
- S5** Enhance implementation of Petaling Jaya's Assessment Tax Rebate Scheme for green initiative
- S6** Enhance the Learning Cities Award 2019 by The UNESCO Institute for Lifelong Learning (UIL)
- S7** Uplift and alleviate living standards for Petaling Jaya poor through green economy
- S8** Encourage Petaling Jaya City Council Food Bank Scheme
- I8** Promote compost from food of commercial and residential units (Waste to Wealth) for reduction of waste to landfills site
- I6** Collaborate with private companies on recycling vending machines
- I7** Establish Smart PJ Waste Solution Lab in Petaling Jaya
- E11** Devise Petaling Jaya City Council's Carbon Management Plan



## THEME 3: PEDESTRIAN FIRST AND GREEN TRANSPORTATION

- T1** Introduce the "Cycle to Work" and "Cycle to School" initiatives involving the MBPJ workers, schools' students and community within neighbourhood
- T2** Improve modal interchanges between bikes and public transport
- T3** Improve and connect pedestrian walkways and bicycle lanes to promote active mobility
- T4** Convert MBPJ's vehicle fleet to low carbon vehicles (Bio fuel, hybrid or electric)
- T5** Increase the number of EV buses, routes and bus stops of PJ City Bus
- T6** Improve real-time online information application about public bus and locations and arrivals
- T7** Organise monthly or weekly Car Free Day
- T8** Establish Low Emission Zone (LEZ) in CBD and major centres in MBPJ area
- T9** Promote hybrid freight transport to the freight operators
- I4** Provide sufficient EV charging infrastructure to promote EV cars usage in Petaling Jaya



## THEME 6: DISASTER RISK REDUCTION MANAGEMENT

- D1** Provide smart flood control water level response mechanism that will trigger a warning signal to alert PJ citizen
- D2** Improve flood mapping of Petaling Jaya
- D3** Improve real-time monitoring and development control at flood prone areas
- D4** Improve existing facilities of schools and community halls designated as disaster temporary evacuation centres by providing generator, toilets, dustbin, paper partition and tents
- D5** Promote the use of permeable surfaces materials for new development in Petaling Jaya
- D6** Reduce waste littering in the drainage system to reduce blockages with awareness campaign
- D7** Implement drought management and response plan to reduce the impact of drought
- D8** Introduce program or initiatives to reduce water consumption in commercial and residential area
- D9** Improve community awareness and participation on prevention of dengue
- D10** Improve enforcement by MBPJ to inspect potential mosquito breeding sites (constructions site, industry buildings, waste management facilities and residential neighborhoods)



# WAY FORWARD



- ❑ Estimated cost to implement 56 planned actions – RM 200 millions. Financing mechanism required.

Public-Private  
Partnership  
(25% - 75%)

Private Sector  
Contribution

Grants from  
External  
Agencies and  
Government

Internal  
Fundings

- ❑ Training and capacity building for the officers.

- ❑ High impact CEPA programmes (communication, education and public awareness).

- ❑ To leverage on technologies advancement and data availability to accelerate actions holistically.





# Thank you.

TPr. Lee Lih Shyan

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