

**High Level Talks:**  
**A Review on Progress made for Smart, Zero Carbon and  
Climate-Resilient Cities in Malaysia and Japan**

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**Jan 21st 2025**

**A Framing Presentation**

**By:**

**University Technology Malaysia & Institute for Global Environmental Strategies**

# COP 29 JAPAN PAVILION

Nov 12  
2024  
Baku

<https://www.env.go.jp/earth/cop/cop29/pavilion/en/exhibition/details/052/>

COP29  
Efforts to Realize a Sustainable Material-Cycle Society  
through Multi-Sectoral Climate Action

ICLEI IGES



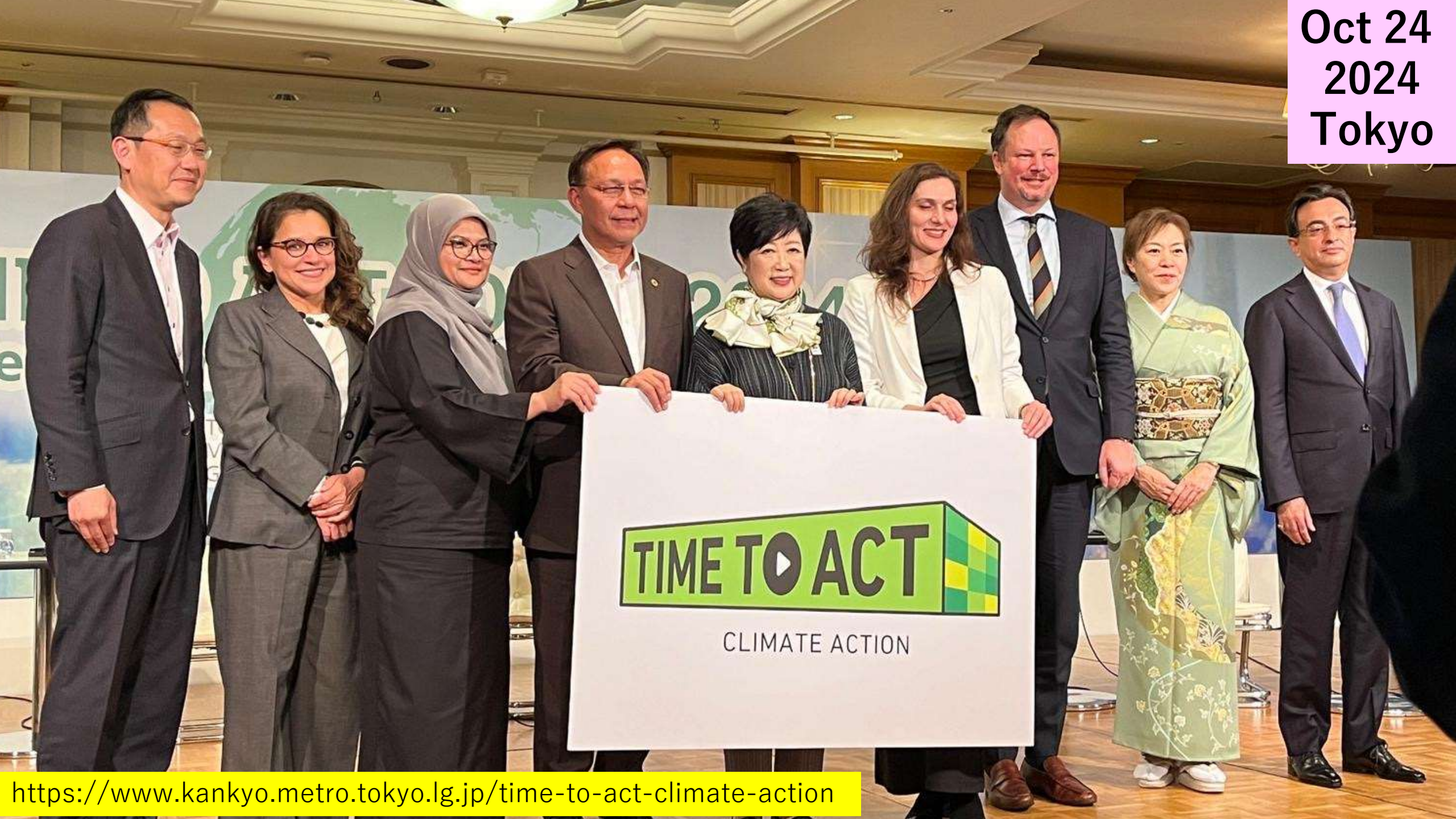
COP29 side event **“Efforts to Realize  
Sound Material-Cycle Society  
through Multilevel Climate Action”**

**COP 29  
JAPAN PAVILION**

**Nov 12  
2024  
Baku**



Oct 24  
2024  
Tokyo



<https://www.kankyo.metro.tokyo.lg.jp/time-to-act-climate-action>



Dec 9  
2024  
KL



# TMG and KL Education Programme



## 【Activities】

The children were able to share the environmentally friendly initiatives (especially energy saving and renewable energy) and experiences they take on a daily basis at home, while also having the opportunity to share their culture to each other.

Children's International Conference on the Environment 2023 By TMG and KL City (20 primary school children)



## 【Activities】

In addition to presentations and joint research activities, the grass-roots exchange between high school students of KL and TMG, including cultural exchanges and lunch meetings, provided an opportunity to enhance common understanding between the two countries.

KL study tour for Tokyo's high school students in 2023 and 2024

# Tokyo to Kuala Lumpur Low Carbon System (T2KLLCS): knowledge transfer on low carbon building systems

**Tokyo Metropolitan Govt (TMG):** The capital of Japan and the inventor of the first city based **Cap-and-Trade Program** for emissions from **buildings**

MOEJ City to city collaboration for a zero-carbon society

+ **Kuala Lumpur City Hall (KL):** The capital of Malaysia; announced **low carbon plan to reduce by 2030** carbon emission intensity of GDP by **70%** (national target 45%)

Aug. 2019  
Kickoff mtg @  
KL City Hall

TOKYO TO KUALA LUMPUR  
**LOW CARBON SYSTEM**  
(T2KLLCS)

Supported by IGES and  
Malaysian institutions

TMG's know-how on **energy efficiency and renewable energy** in around **4200 public buildings** is transferred to **KL** for around **2000 public buildings**. KL has decided to prepare her own budget to **retrofit several main public buildings** in FY2021 based on **data analysis**. The city has announced its target to become **carbon neutral by 2050**.

Datuk Mahadi  
Former Mayor of KL

Mr. Ogawa  
Senior Director,  
TMG

# C40 World Mayors Summit @ Buenos Aires Oct 19th 2022



C40 Bloomberg Philanthropy Award



C40 Bloomberg Philanthropy Award Ceremony @ Buenos Aires

## [Building a Climate Movement](#)

Winners: Seattle, **Tokyo / Kuala Lumpur**

## [Cleaning the Air We Breathe](#)

Winners: Beijing, Pune

## [Accelerating Immediate Action in Critical Sectors](#)

Winners: Addis Ababa, Amsterdam

## [Building Climate Resilience](#)

Winners: Dhaka North, Metropolitan Area of Guadalajara

## [Innovative Climate Solutions](#)

Winners: Freetown, São Paulo



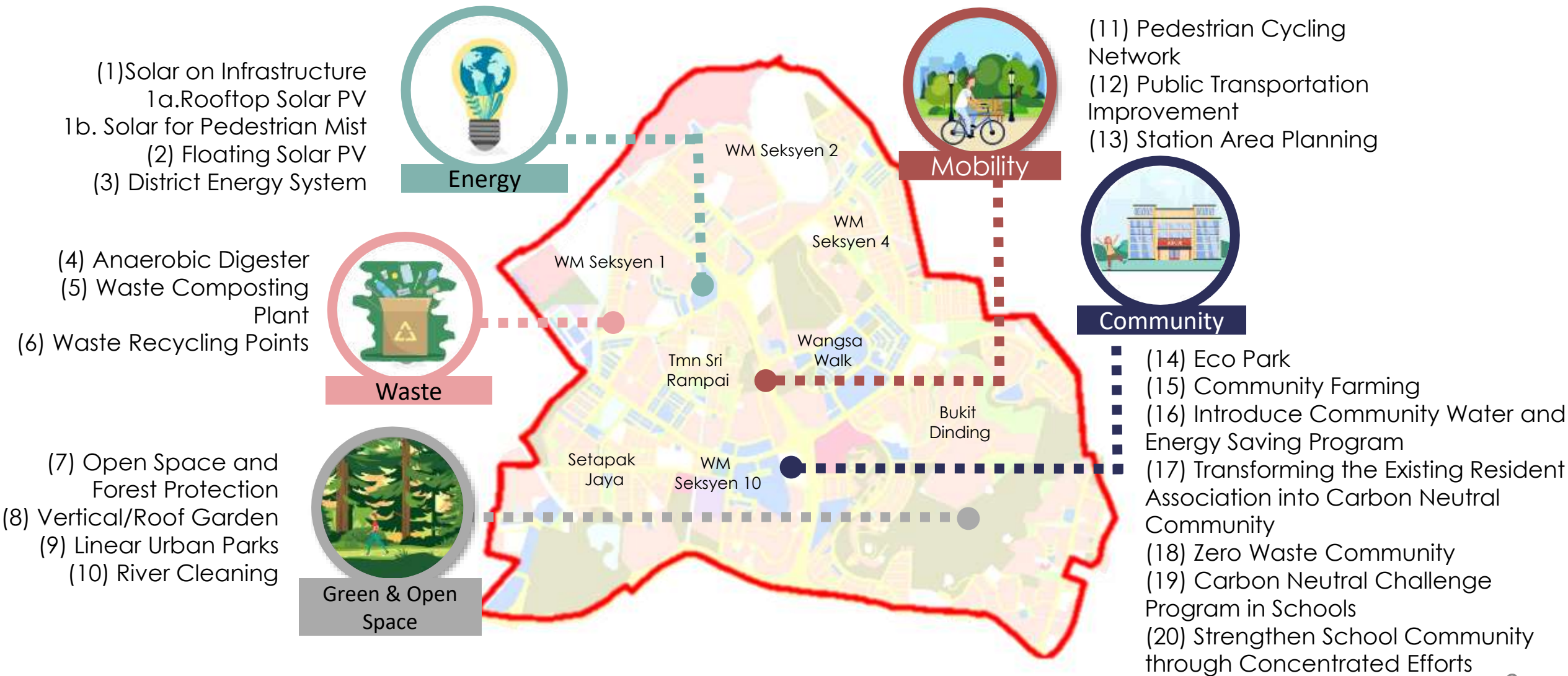
BBC Storyworks – Transforming Cities





# Third year (FY2021) : Discussions begin on the “Wangsa Maju Carbon Neutral Growth Center”

**The private sector in the district also participated in the discussions on specific initiatives.**



# Project organization of 2<sup>nd</sup> phase (FY2022-2024)

Tokyo Metropolitan Government  
(TMG)

Supports KL for sustainable policies and buildings at whole city level

Saitama City Hall  
(Saitama)

Supports KL for sustainable energy management at neighbourhood level

**Takasago**  
**Construction:**  
**Private sector:**  
**timber buildings**

**IGES:**  
**Main coordinator**

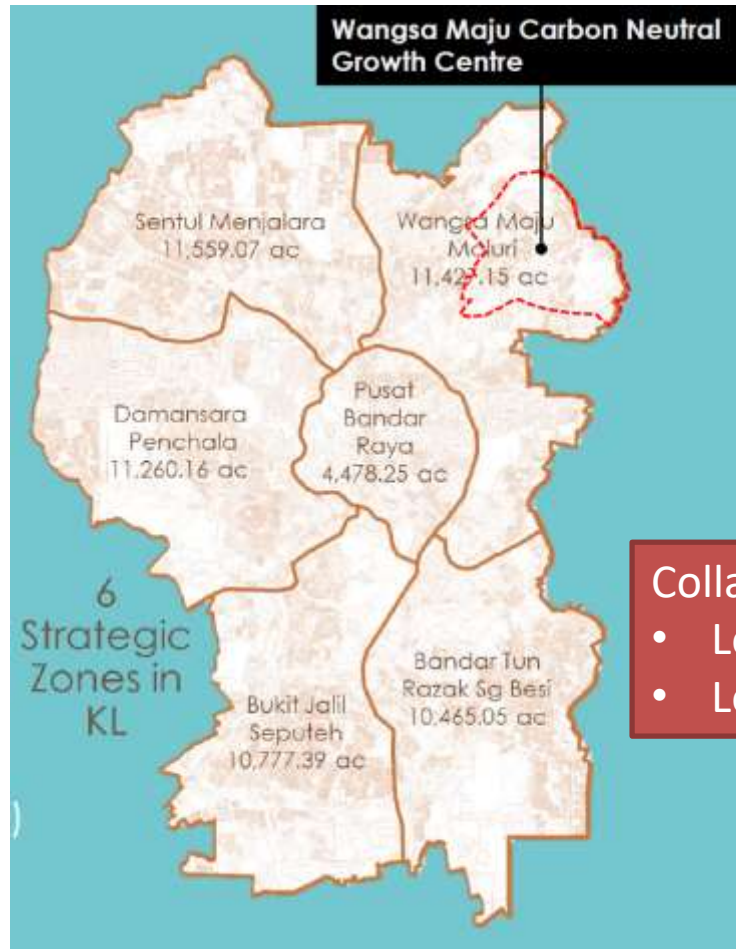


Fig. Map of Kuala Lumpur City

Kuala Lumpur City Hall (KL)

Streamline and enhance zero emission policies, ways to develop a zero emission neighborhood

**SEDA (Sustainable Energy Development Authority):**  
**Public sector: energy management and policies**

Collaborative topic: a system for

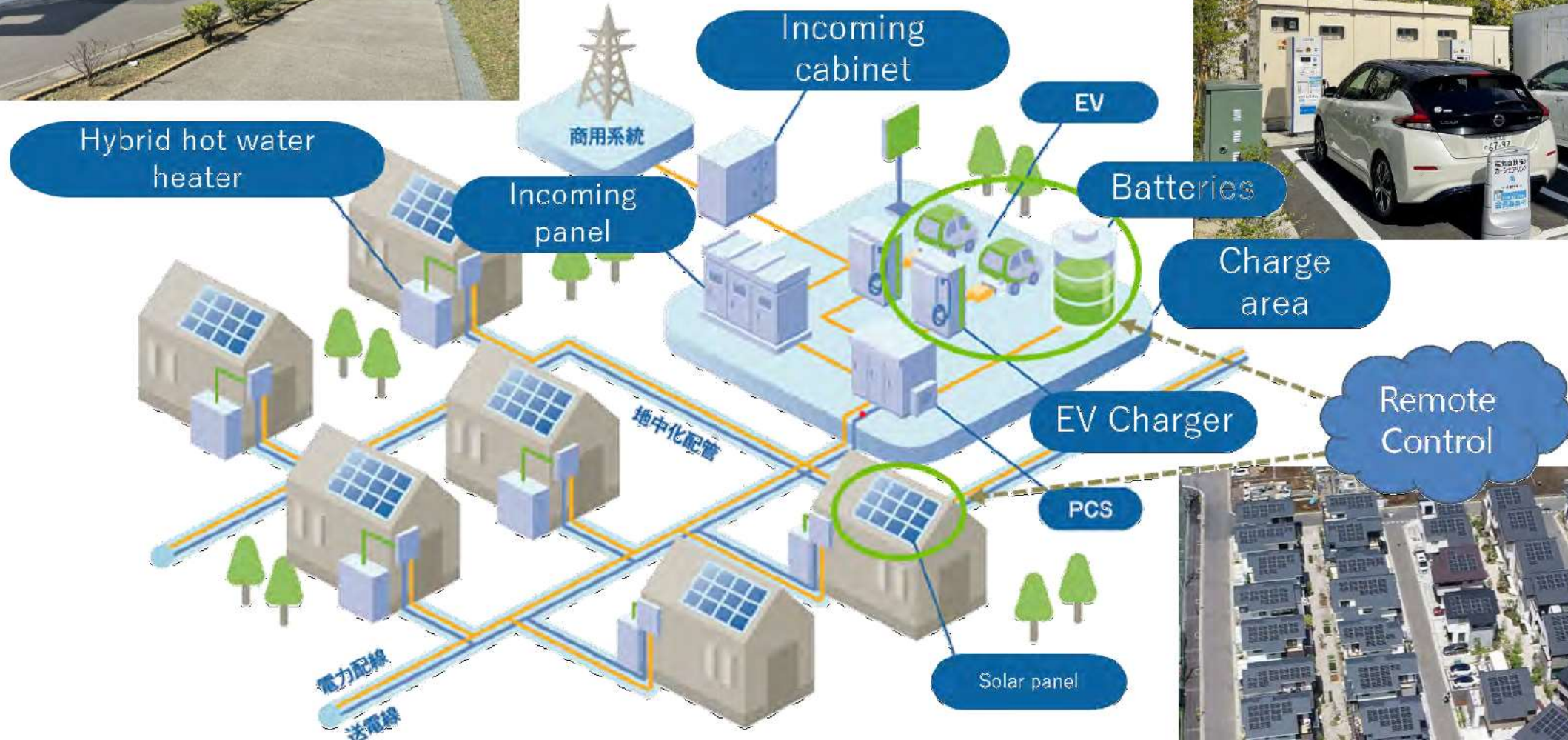
- Low carbon buildings
- Low carbon districts

**Universiti Teknologi Malaysia:**  
**Local coordinator**

# Smart Home Community Resilience with Local Grids



Saitama city



# Sustainable Wooden Architecture Highly Airtight and Insulated Houses

## Takasago Construction Co.

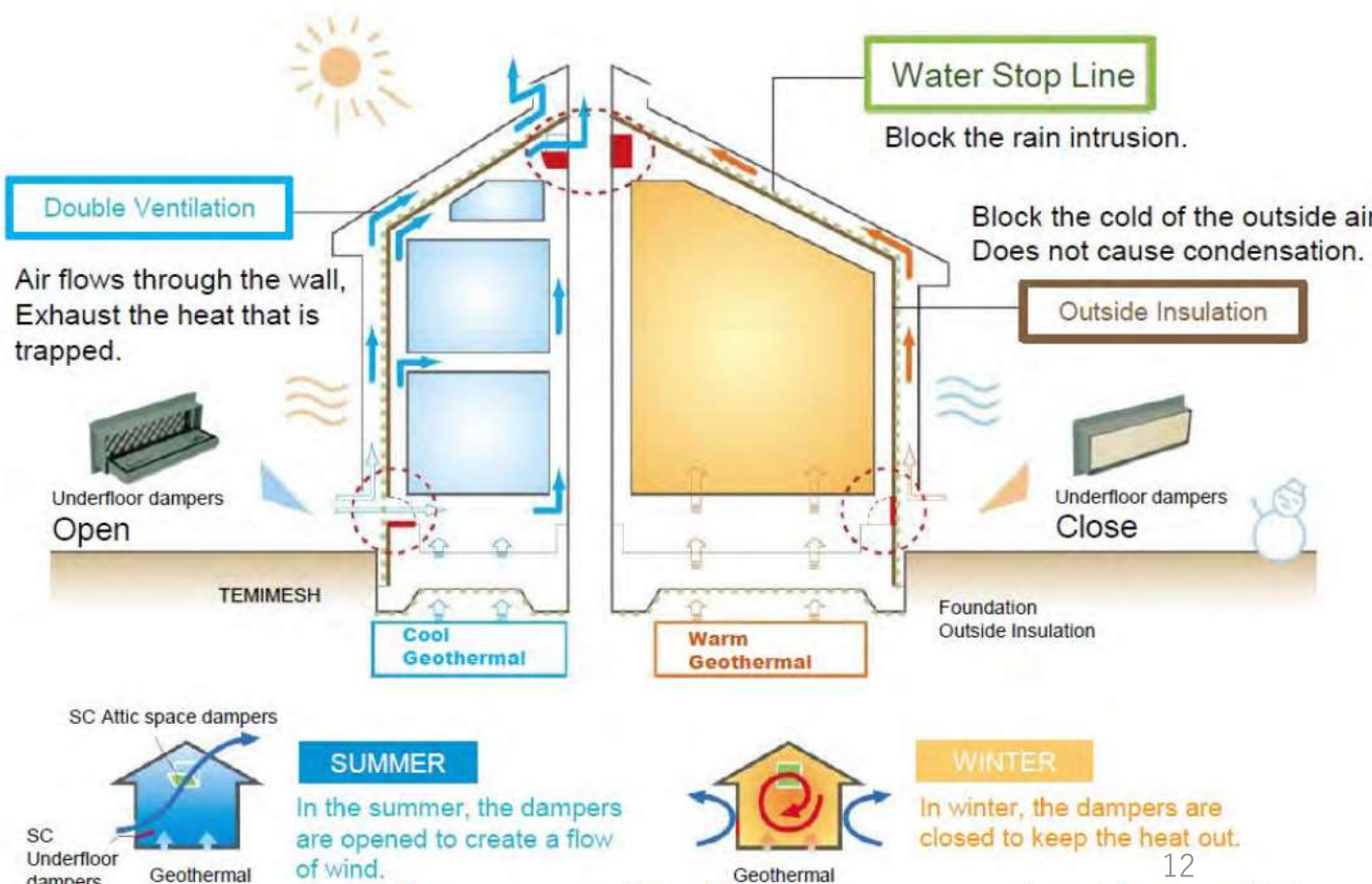


image provided: Takasago construction co, ltd

# Many Online Workshops

## ~ Low carbon buildings/mobility ▪ Nature based Solutions ~

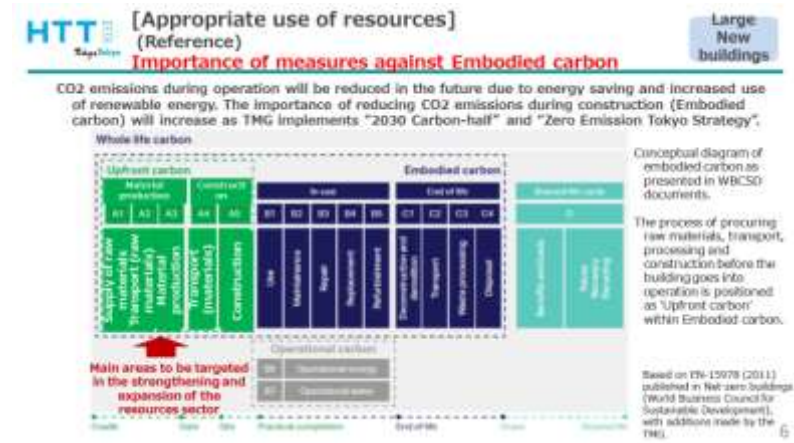


KL-TMG-Saitama Carbon neutrality in mobil... -スピーカービューとの共有画面



KL-TMG-Saitama Carbon neutrality in mobil... -スピーカービューとの共有画面

Information exchange of Tokyo and Saitama's latest policies



# Saitama City Mayor Shimizu to KL High Level Talks 2023

Aug 2023  
KL

Mayor Shimizu of Saitama City made a key note speech. SEDA speaks about Malaysia's national policies



Mayor Shimizu (Saitama) , Ambassador Takahashi (Embassy of Japan)  
SEDA, JICA Malaysia Office, JETRO Kuala Lumpur, JACTIM



KL Mayor Kamalzaman and Saitama Mayor Shimizu



T-REX site visit



SDG s Center visit



Wangsa Maju visit

# UTM expert on timber construction visits Saitama

July 2024  
Saitama



UTM visits Saitama's forest, lumber yard and the construction site (2024.07.26-27)

Nov 12  
2024  
Baku

# COP 29 JAPAN PAVILION

Solutions to the world  
COP29 JAPAN PAVILION

Channel 7 Stage sound Liaison

Signing the letter of “Intent On the Collaboration of Sustainable Timber Construction” among Saitama city/Johor Sustainability Centre, Takasago Construction Co., UTM, IGES





# The Macro and Micro Linkage

Timeline

## Macro-level

## Micro-level

2015

- The Paris Agreement (Global)

2020

- Race to Zero (Global)

2021

- Malaysia's **Goal for carbon neutral by 2050**

2022

- **Industrialization Master Plan** for 2030 includes decarbonization targets.

2023

- **Energy Transformation Roadmap** includes decarbonization targets.

2024

- Bursa Malaysia's Bursa **Carbon Exchange** (BCX)

- KL City's **2050 target for carbon neutrality**(2020)

- "Climate Smart and Low Carbon City Kuala Lumpur" in **KL's Development Plan** for 2040

- KL's public building **procurement criteria** adds low carbon

- KL City **develops a proof of concept** for a low carbon district

- **New regulation (in discussion)** : real estate developers report to KL City Hall on their efforts to recognize low carbon in new constructions. (2024)

# Summary

- Rapidly urbanizing cities may become locked-into energy-intensive development patterns
- Taking alternative development paths requires radical change
- Local government can influence the direction of the change through strategies, roadmaps and regulations.
- KL City also uses protected spaces to accumulate an understanding for low carbon buildings / districts.
- By doing so KL City is creating a normative environment for low carbon.
- KL City has been influenced by global climate actions, and in a way KL City is setting a standard for Malaysia's climate national actions.

**TO BE  
CONTINUED...** 