

LOOKING BACK AT THE PROGRESS MADE THROUGH THE PARTNERSHIP AND FUTURE PERSPECTIVES

Kuala Lumpur City Hall



Background





























































Collaboration KL-TMG-SC



DATA ON 4 MAIN KUALA LUMPUR CITY HALL BUILDINGS 30 unit AHU 1998 water pump SSO RT dunham bush 2019 3 unit Chiller 22 unit chilled and 1996 & SSS RT dunham bush 2019 Ground Floor 30 unit FOJ 1998 6 unit WCPU 1998 16 unit AHU 2010& 8 unit cooling tow Tunk WCRU 2010 2 unit chilled 75hp & 19! 2 unit confesser 19 unit FCU 1999 water pump 100hp 2 unit Chiller (1999) 2 unit cooling tow 50,563.20 49,046.30 wet riser and 1 set Suinit domestic water pump 5hp centre using VRV 2 unit 15 hp TRAINING CENTER Chiller for Mestika (2009)

COLOR OR COLOR CO.

FY 2 (2020) - Efforts centered on data collection for EE and RE initiatives in KLCH Tower 1

FY 3 (2021): Implementation of the identified initiatives marked an early success.

01

Location:

Northern part of Kuala Lumpur

02

Strategic Zone:

Wangsa Maju- Maluri Strategic Zone





Tokyo to Kuala Lumpur Low Carbon System
(TZKLLCS)

KLCH-TMG-SAITAMA CITY COLLABORATION

2. MICROGRID SMART-HOME







T2KLLCS2030 PHASE **5**(2023)

SMART-HOME

51 houses consists of thin film solar cell panels, a home rechargeable battery unit, household gas engine cogeneration unit and hot water supply system, and the Smart e Mix Manager. The Smart e Mix Manager, is a comprehensive energy management device which applies optimal control to electricity supplied from the commercial grid and generated by each energy device in the system.









MICROGRID

Maximize the renewable energy rate, leveling demand, and creating adjustment power by accommodating renewable energy with solar power, storage batteries, and EV in 51 houses.

FY 4 (2022) - The establishment of the Wangsa Maju 2050 Carbon Neutral Growth Center

FY 5 (2023) - Expansion into research areas Into smart-home microgrids

Enhancing Climate Resilience and Zero-Carbon Cities Together



SDG Centre KL

Driving Kuala Lumpur's commitment to the United Nations Sustainable Development Goals, fostering collaboration, innovation, and sustainable urban progress.



ESG Centre KL

Empowering Kuala Lumpur to lead in Environmental, Social, and Governance practices, shaping a responsible, inclusive, and resilient urban future.

1. SDG Centre KL & SDG Plague:















SDG Plagues

2. ESG Centre KL













Progress

Made Through Partnerships





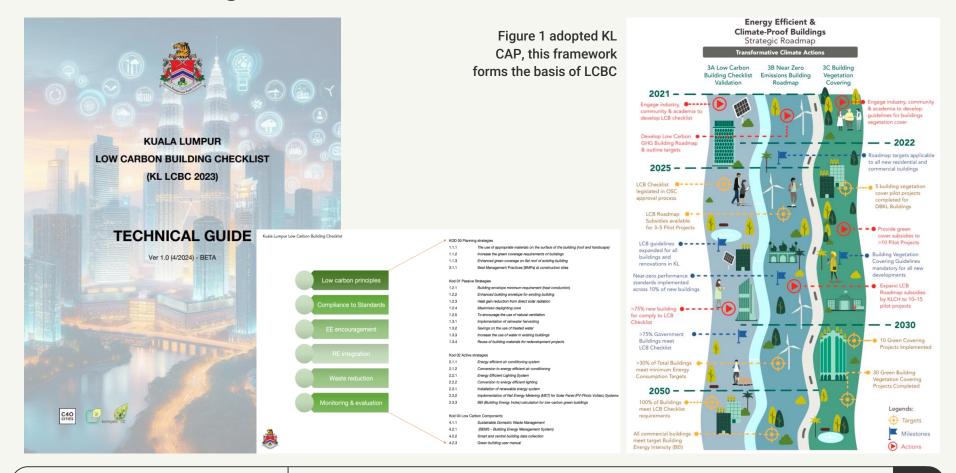








1. Urban Planning and Low-Carbon Infrastructure:



2. Renewable Energy Initiatives:





Kuala Lumpur City Hall has reduced from emissions this effort by 32 tonnes of CO2 which equivalent 1960 matured trees.







PV Street Lights-Bukit Jalil

3. Green Mobility and Sustainable Transport:

GoKL City Bus free bus service to go fully electric by early 2023, using 60 Malaysian-made SKS EV buses

In Hybrids, EVs and Alternative Fuel, Local News, Public Transport / By Anthony Lim / 28 October 2021 6:42 pm / 9



Kuala Lumpur has achieved a CO2 emission reduction of approximately 117.00 tons in 2024, representing a 59% decrease compared to conventional diesel





4. Recognition and Leadership:





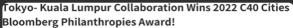




A Film Showcasing the City-to-City Collaboration with Kuala **Lumpur City Hall**

















01

Accelerating Adoption of Zero-Carbon Standards

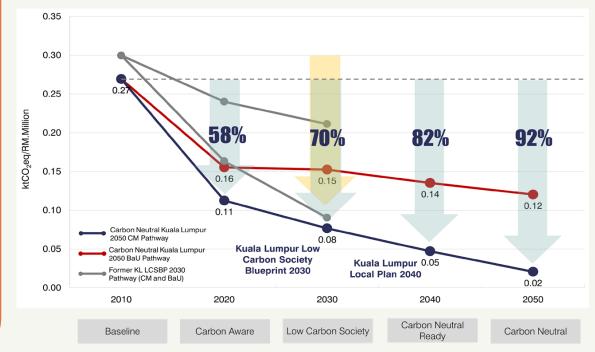












02

Expanding
Green Initiatives























03

Expanding
Sustainable School
Programme

















Virtual Student Exchange Program - Discussion on the application of energy efficiency to promote energy savings and low-carbon projects.



Fujimigaoka High School : Discussion on Malaysian culture and the execution of sustainability projects in educational institutions.

04

Aligning with Global Goals

PARIS AGREEMENT GOALS

Adaptation: Addressing and reducing vulnerability to climate change

Goal 1: Increase the ability to adapt to the adverse impacts of climate change and foster climate resilience and low-GHG development, in a manner that does not threaten food production.

Mitigation: Reducing emissions to limit global temperature increase

Goal 2: Hold the increase in the global average temperature to well below 2°C above pre-industrial levels and pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognising that this would significantly reduce the risks and impacts of climate change.

Finance: Making finance flows consistent with climate goals

Goal 3: Make finance flows consistent with a pathway towards low-GHG emissions and climateresilient development.



05

Strengthening International Partnership















ETRO











Kuala Lumpur

















KUALA LUMPUR ZERO WASTE ROADMAP

2026

IMPLEMENTATION OF ACTION PLAN

- Material recovery facility
- Recycling of C&D waste
- Waste to energy



2024

KUALA LUMPUR CITY HALL TOWARDS ZERO WASTE

- · Domestic waste diversion
- Enforcement of single-use plastics and polystyrene
- Recycling and composting initiatives
- FGD with Departments in DBKL
- Data collection (DBKL)
- Action plan (DBKL)

2025

LAUNCHING OF ROADMAP KUALA LUMPUR TOWARDS ZERO WASTE

- Launching of DBKL towards zero waste roadmap (2025)
- Implementation of action plan (2025-2026)
- Host International Zero Waste Day
- Circular Economy Implementation
- Recycling kiosk
- Eco Recycling Park

2030 IMPLEMENTATION OF

ACTION PLAN

- · Food waste diversion 30%
- C&D diversion 60%
- Landscape waste composting 40%



2040
KUALA LUMPUR ZERO WASTE

Elimination of single-use plastics

Kuala Lumpur Zero Waste City

Renewable energy

Conclusion







Shared Vision for Sustainability
Innovative Approaches
Community and Policy Synergy
Scalable and Replicable Models

CITY FOR ALL

NO ONE LEFT BEHIND



Thank You