

TALKS ON ZERO CARBON CITY KUALA LUMPUR **Developing An** Institutional Framework **Towards Kuala Lumpur** Zero Carbon City And Neighbourhood In **Collaboration With** Tokyo Metropolitan **Government And** 

Kuala Lumpur **Towards a Carbon** Neutral City by 2050

NIK ALI

8<sup>th</sup>.

2022

ARY

## CITY OF KUALA LUMPUR

### **KUALA LUMPUR'S PARTICIPATION IN COP26**







01-12 NOV 2021 Glasgow

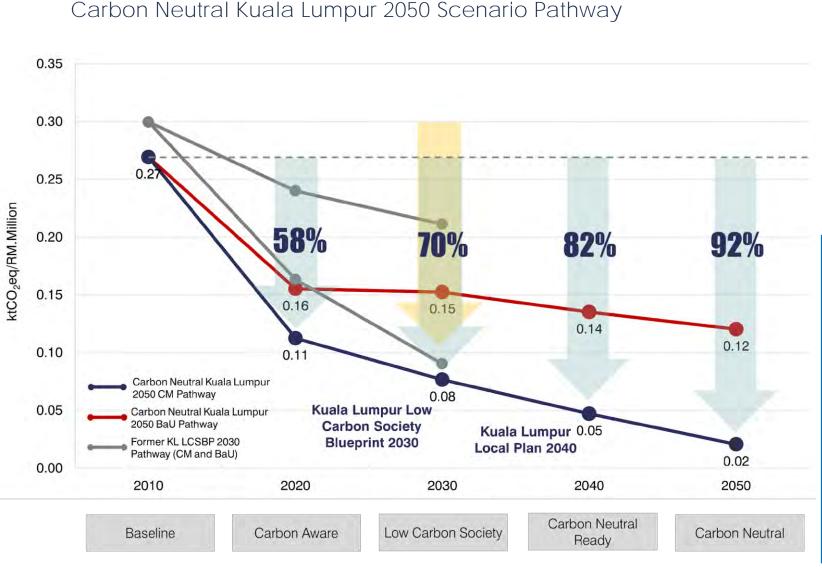
IN PARTNERSHIP WITH ITALY

**United Nations** Climate Change





## CARBON NEUTRAL KUALA LUMPUR BY 2050





## Kuala Lumpur City Hall (KLCH)

Kuala Lumpur aims to become Carbon Neutral Kuala Lumpur by



Source: UTM-LCARC Projections

## THE MASTER PLANS





## **Kuala Lumpur's Transition To Carbon Neutral** City 2050

The Master Plans and Blueprints are in line with the Sustainable Development Goals in light of KL-ites' aspirations.



## LOW CARBON SOCIETY BLUEPRINT 2030



# LOW CARBON SOCIETY BLUEPRINT 2030 70 BY 30 A GREENER BETTER KUALA LUMPUR

## 

## PARTNERS & COLLABORATORS



HIGH LEVEL TALKS ON ZERO CARBON CITY KUALA LUMPUR

**Kuala Lumpur Towards a Carbon Neutral City by 2050** 

## LOW CARBON INITIATIVE FOR KLCH'S BUILDINGS

- **KLCH** has collaborated with **TMG**, **IGES**, UTM and SEDA Malaysia since 2019.
- Now the collaboration has entered Phase 4
- New collaboration partner is Saitama City.

Developing Collabora 23rd AU

TOKYO TO KUALA LUMPUR

LOW CARBON SYSTEM

#### KLCH TOWER 1, 2, 3, and IDB

• Pilot Projects - EE

(T2KLLCS)

- Power Consumption
- Air-condition Equipment
- Kuala Lumpur Low Carbon Target
- DATA ON 4 MAIN KUALA LUMPUR CITY HALL BUILDINGS





Kuala Lun







## LOW CARBON INITIATIVE FOR KLCH'S BUILDINGS

#### PROJECT PROPOSAL FOR ENERGY EFFICIENCY(EE) KLCH TOWER 1

- AHU Menara 1
- Replacement Of 7 Lift Units At KLCH Tower 1
- Menara 1-Auditorium -Chiller, Pump, Cooling Tower & AHU
- Upgrading The Electrical Wiring System At Menara KLCH 1

#### KLCH TOWER 2

- Elevator Replacement At Menara DBKL 2
- Upgrading the electrical wiring system at Menara KLCH 2

#### KLCH TOWER 3

- Replacement And Upgrade Of Chiller And Cold & Chilled Water Pump To Energy Efficiency Type At Menara KLCH 3
- Upgrading And Replacement Of KLCH Tower 3 Main Pipeline System
- Upgrading The Electrical Wiring System At DBKL Towers 3

Features : OUTDOORS Garden Function : BUILDING Cooling Mechanism, LED.... Estimated Cost Saving 2022 : **RM 66,000/month** Cost Saving since 2016: **RM804,695** CO2 Saving since 2016: **1,182,302 kgCO2** 

BIL		PROJECT PROPOSL	PROPOSED YEAR	PROJECT STATUS	BUDGET STATUS	STATUS UPDATE	
Τ		M&E PROJECT					
	1	AHU FOR KLCH TOWER 1	2022	TENDER PROCESS	- TENDER PROCESS IN PROCUREMENT SEPT/OCT IMPLEMENT NOV 2021-JKME SO- ADDITIONAL BUDGET RM4,000,000.00 (HAS PASSED DEVELOPMENT COMMITTEE) FOR 2022/2023-KICK- OFF NOV/DEC 2021	Tendering process (tender board meeting)	
	2	VRV FOR AIR-CONDITIONING SYSTEM, IDB BANDAR TUN RAZAK	2022	TENDER PROCESS	- ACQUISITION SEPT/OCT - IMPLEMENT NOV 2021- KICK-OFF RUN NOV/DEC 2021- ADDITIONAL BUDGET RM1,400,000.00 (DEVELOPMENT COMMITTEE, AWAITING APPROVAL)- UPB SO	Tendering process(need to amend according to new QS format)	
	3	REPLACEMENT AND UPGRADE OF CHILLER AND COLD & CHILLED WATER PUMP TO ENERGY EFFICIENCY TYPE AT MENARA DBKL 3- STANDARD MS1525- JAPAN SIDE SUGGESTION FOR BE BETTER IF AVAILABLE	2022/2023	TO APPLY BUDGET 2022- JM HAFIZ TO GET CURRENT SPECT	TO APPLY YEAR 2022-KICK-OFF NOV/DEC 2022- DOCUMENT/SPECT PREPARATION	expected to kick off in december 2022	
ĺ	4	ELEVATOR REPLACEMENT AT MENARA KLCH 2	2025				
	5	Replacement of 7 lift units at KLCH Tower 1	2021-2023	IN PROGRESS - JAN 2023 TO COMPLETE - 12-13 YEARS LIFT - PROPOSE TO SUB- METER/SMART METER FOR NEW LIFT - CALCULATION BEFORE AND AFTER IN BEFORE AND AFTER IN BEDOS	- 10% PAYMENT PROCESS	in process (30% as in May)	
ſ	6	DBKL TOWER 1 - Auditorium -Chiller, Pump, CoolingTower & AHU	2021/2022	READY FOR BOARD MEETING	- TO CONFIRM WITH SO	Work in progress	
	7	UPGRADING AND REPLACEMENT OF DBKL TOWER MAIN PIPELINE SYSTEM 3	2022			Work in progress	











## 

## WANGSA MAJU CARBON NEUTRAL GROWTH CENTRE



## SUSTAINABLE DEVELOPMENT GOALS



## SDG CENTRE KUALA LUMPUR







15

## KL CAR FREE MORNING

# 

16

## GOKL ELECTRIC BUS



#### HIGH LEVEL TALKS ON ZERO CARBON CITY KUALA LUMPUR

Kuala Lumpur Towards a Carbon Neutral City by 2050



## KUALA LUMPUR SOLAR PV AND RENEWABLE ENERGY

## Regulation for real estate developers to utilise at least 30% of













## KUALA LUMPUR CITY HALL-LOW CARBON INITIATIVES (Solar PV)



PV Street Lights-Sungai Bunus









## THANK YOU TERIMA KASIH ありがとうございました

video credit: Skyrun Malaysia